



## 18258 - Rocky Worlds DDT: HST Observations of TOI-244

Cycle: 33, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

### INVESTIGATORS

| <i>Name</i>                                   | <i>Institution</i>                             |
|-----------------------------------------------|------------------------------------------------|
| <b>Dr. Hannah Diamond-Lowe (PI) (Contact)</b> | <b>Space Telescope Science Institute</b>       |
| Dr. Nestor Espinoza (CoI) (CoPI)              | Space Telescope Science Institute              |
| Dr. John Henry Debes (CoI) (ESA Member)       | Space Telescope Science Institute - ESA - JWST |
| Dr. Leonardo Dos Santos (CoI)                 | Space Telescope Science Institute              |
| Dr. Munazza Alam (CoI)                        | Space Telescope Science Institute              |
| Rachel Cooper (CoI)                           | Space Telescope Science Institute              |
| Tyler Baines (CoI)                            | Space Telescope Science Institute              |
| Dr. Taylor James Bell (CoI) (ESA Member)      | Space Telescope Science Institute - ESA - JWST |
| Dr. Brett M. Morris (CoI)                     | Space Telescope Science Institute              |
| Dr. Leonardo Ubeda (CoI)                      | Space Telescope Science Institute              |
| Dr. Ian Wong (CoI)                            | Space Telescope Science Institute              |
| Dr. Joshua D. Lothringer (CoI)                | Space Telescope Science Institute              |
| Ms. Misty Cracraft (CoI)                      | Space Telescope Science Institute              |
| Dr. Joseph Filippazzo (CoI)                   | Space Telescope Science Institute              |
| Mr. Douglas Ray Long (CoI)                    | Space Telescope Science Institute              |
| Dr. Achrene Dyrek (CoI)                       | Space Telescope Science Institute - JWST       |
| Dr. Elena Manjavacas (CoI) (ESA Member)       | Space Telescope Science Institute - ESA - JWST |
| Mees Fix (CoI)                                | Space Telescope Science Institute              |
| Dr. Christopher Britt (CoI)                   | Space Telescope Science Institute              |
| Hannah Braun (CoI)                            | Space Telescope Science Institute              |
| Ryan Kunzer (CoI)                             | Space Telescope Science Institute              |
| Kyle Conroy (CoI)                             | Space Telescope Science Institute              |

| <b><i>Name</i></b>               | <b><i>Institution</i></b>         |
|----------------------------------|-----------------------------------|
| Dr. Mercedes Lopez-Morales (CoI) | Space Telescope Science Institute |
| Dr. I. Neill Reid (CoI)          | Space Telescope Science Institute |

## VISITS

| <b><i>Visit</i></b> | <b><i>Targets used in Visit</i></b> | <b><i>Configurations used in Visit</i></b> | <b><i>Orbits Used</i></b> | <b><i>Last Orbit Planner Run</i></b> | <b><i>OP Current with Visit?</i></b> |
|---------------------|-------------------------------------|--------------------------------------------|---------------------------|--------------------------------------|--------------------------------------|
| 01                  | (1) TOI-244                         | COS/FUV<br>COS/NUV                         | 4                         | 30-Sep-2026 14:00:58.0               | yes                                  |
| 02                  | (1) TOI-244                         | COS/FUV<br>COS/NUV                         | 4                         | 30-Sep-2026 14:00:59.0               | yes                                  |
| 03                  | (1) TOI-244                         | COS/FUV<br>COS/NUV                         | 4                         | 30-Sep-2026 14:01:00.0               | yes                                  |
| 04                  | (1) TOI-244                         | COS/FUV<br>COS/NUV                         | 4                         | 30-Sep-2026 14:01:01.0               | yes                                  |
| 05                  | (1) TOI-244                         | COS/FUV<br>COS/NUV                         | 4                         | 30-Sep-2026 14:01:02.0               | yes                                  |
| 06                  | (1) TOI-244                         | COS/FUV<br>COS/NUV                         | 4                         | 30-Sep-2026 14:01:02.0               | yes                                  |
| 07                  | (1) TOI-244<br>WAVE                 | STIS/CCD<br>STIS/NUV-MAMA                  | 1                         | 30-Sep-2026 14:01:03.0               | yes                                  |
| 08                  | (1) TOI-244<br>CCDFLAT<br>WAVE      | STIS/CCD                                   | 1                         | 30-Sep-2026 14:01:04.0               | yes                                  |
| 09                  | (1) TOI-244<br>WAVE                 | STIS/CCD<br>STIS/FUV-MAMA                  | 2                         | 30-Sep-2026 14:01:04.0               | yes                                  |
| 10                  | (1) TOI-244<br>WAVE                 | STIS/CCD<br>STIS/FUV-MAMA                  | 2                         | 30-Sep-2026 14:01:05.0               | yes                                  |
| 11                  | (1) TOI-244<br>WAVE                 | STIS/CCD<br>STIS/FUV-MAMA                  | 2                         | 30-Sep-2026 14:01:05.0               | yes                                  |

32 Total Orbits Used

## **ABSTRACT**

Rocky Worlds is a joint JWST and HST Director's Discretionary Program designed to implement the top recommendations from the Working Group on Strategic Exoplanet Initiatives with HST and JWST. The HST side of the Rocky Worlds DDT focuses on ultraviolet (UV) characterization of the nearby M-dwarf hosts of the rocky planets observed with JWST. We will use COS and STIS to measure the UV to blue-optical spectra of these stars, including UV flare monitoring and measuring the wings of the Ly-alpha profile where appropriate. With these observations we will constrain the high-energy output of these host M dwarfs in the UV, which can be applied to planetary models of atmospheric escape, as well as photochemistry if a planetary atmosphere is present. Complementary observations and analysis to fill in the rest of the M-dwarf panchromatic spectra, from the X-ray to the infrared, are encouraged.

Each M-dwarf planet host observed by HST in the Rocky Worlds DDT program has its own Program ID. The observations in this program will focus on TOI-244

## **OBSERVING DESCRIPTION**

HST observations of TOI-244. 12 orbits of flare monitoring using G130M/1222. 12 orbits of FUV line coverage with G160M/1533 which provides complete coverage with G130M/1222 of 1070-1710 Angstroms. We obtain NUV/Vis low resolution spectroscopy with STIS G230L, G430L, and G750L and the 52x0.2 slit in order to construct an accurate stellar SED in 2 orbits. We also observe Lyman alpha in the G140M/1222 mode in 6 orbits. All UV observations are obtained in time-tag mode to allow for light curves to be generated in the case of a flare or serendipitous transit.

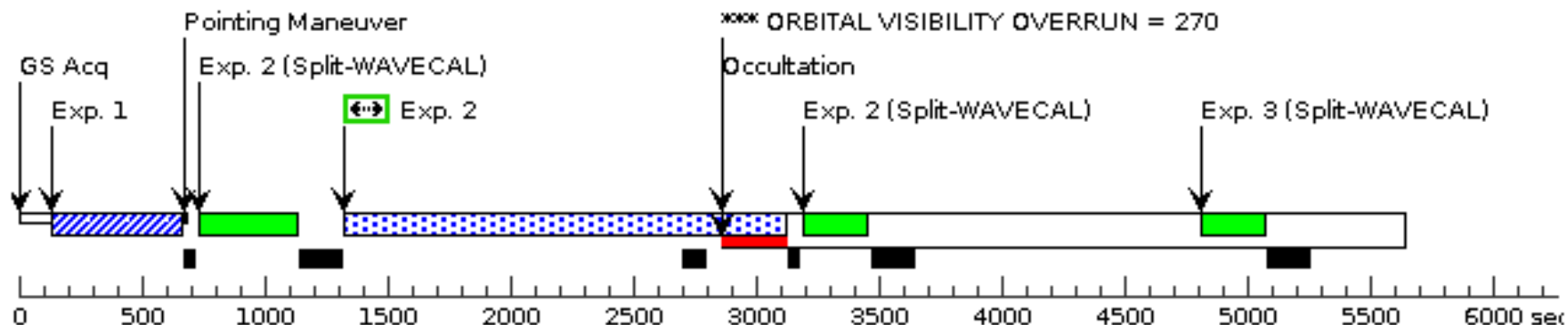
For all observation SNR calculations we used archival spectroscopy of GJ 436, with a radius and distance scaled SED.

# Proposal 18258 - G130M-Flare1 (01) - Rocky Worlds DDT: HST Observations of TOI-244

|                            |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|-------------------------|-----------------------------------|-----------------------------------|---------------|-----------------------|---------------------------------|-----|------------------------------|--|
| Visit                      | Proposal 18258, G130M-Flare1 (01), implementation                                                                                                                                                                                                                                               |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     | Wed Sep 30 18:01:06 GMT 2026 |  |
|                            | Diagnostic Status: Warning                                                                                                                                                                                                                                                                      |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | Scientific Instruments: COS/FUV, COS/NUV                                                                                                                                                                                                                                                        |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | Special Requirements: SCHED 100%                                                                                                                                                                                                                                                                |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
| Comments: Flare Monitoring |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
| Diagnostics                | (G130M-Flare1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                         |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
| Fixed Targets              | #                                                                                                                                                                                                                                                                                               | Name                                       | Target Coordinates              |                         | Targ. Coord. Corrections          |                                   | Fluxes        |                       | Miscellaneous                   |     |                              |  |
|                            | (1)                                                                                                                                                                                                                                                                                             | TOI-244                                    | RA: 00 42 16.7344 (10.5697267d) |                         | Proper Motion RA: -154.88 mas/yr  |                                   | V=12.693      |                       | Reference Frame: ICRS           |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 | Alt Name1: G-267-158                       | Dec: -36 43 4.68 (-36.71797d)   |                         | Proper Motion Dec: 45.632 mas/yr  |                                   |               |                       |                                 |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                            | Equinox: J2000                  |                         | Parallax: 0.0452998"              |                                   |               |                       |                                 |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         | Epoch of Position: 2016           |                                   |               |                       |                                 |     |                              |  |
|                            | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | Category=STAR                                                                                                                                                                                                                                                                                   |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | Extended=NO                                                                                                                                                                                                                                                                                     |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
| Exposures                  | #                                                                                                                                                                                                                                                                                               | Label<br>(ETC Run)                         | Target                          | Config,Mode,Aperture    | Spectral Els.                     | Opt. Params.                      | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.] |     | Orbit                        |  |
|                            | 1                                                                                                                                                                                                                                                                                               | Acquisition<br>(COS.ta.233<br>6443)        | (1) TOI-244                     | COS/NUV, ACQ/IMAGE, PSA | MIRRORB                           |                                   |               |                       | 111 Secs (111 Secs)             |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         |                                   |                                   |               |                       | [==>]                           |     | [1]                          |  |
|                            | Comments: Lifetime check for G130M:<br>Initial look is ~33 counts total in the Brightest emission line per FP-POS across all visits. We should be ok.                                                                                                                                           |                                            |                                 |                         |                                   |                                   |               |                       |                                 |     |                              |  |
|                            | 2                                                                                                                                                                                                                                                                                               | G130M/122<br>2-FP1<br>(COS.sp.233<br>6446) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA  | G130M<br>1222 A                   | FP-POS=1;<br>BUFFER-TIME=13<br>50 |               |                       | 1750 Secs (1750 Secs)           |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         |                                   |                                   |               |                       | [==>]                           |     | [1]                          |  |
|                            | 3                                                                                                                                                                                                                                                                                               | G130M/122<br>2-FP2<br>(COS.sp.233<br>6446) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA  | G130M<br>1222 A                   | FP-POS=2;<br>BUFFER-TIME=13<br>50 |               |                       | 2428 Secs (2428 Secs)           |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         |                                   |                                   |               |                       | [==>]                           |     | [2]                          |  |
|                            | 4                                                                                                                                                                                                                                                                                               | G130M/122<br>2-FP3<br>(COS.sp.233<br>6446) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA  | G130M<br>1222 A                   | FP-POS=3;<br>BUFFER-TIME=13<br>50 |               |                       | 2428 Secs (2428 Secs)           |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         |                                   |                                   |               |                       | [==>]                           |     | [3]                          |  |
| 5                          | G130M/122<br>2-FP4<br>(COS.sp.233<br>6446)                                                                                                                                                                                                                                                      | (1) TOI-244                                | COS/FUV, TIME-TAG, PSA          | G130M<br>1222 A         | FP-POS=4;<br>BUFFER-TIME=13<br>50 |                                   |               | 2428 Secs (2428 Secs) |                                 |     |                              |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                            |                                 |                         |                                   |                                   |               | [==>]                 |                                 | [4] |                              |  |

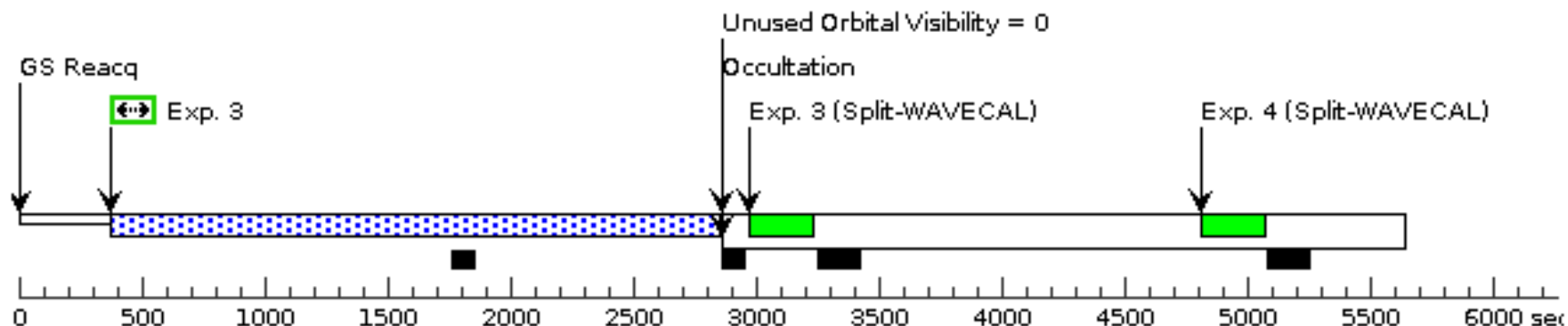
### Orbit 1

Server Version: 20260828



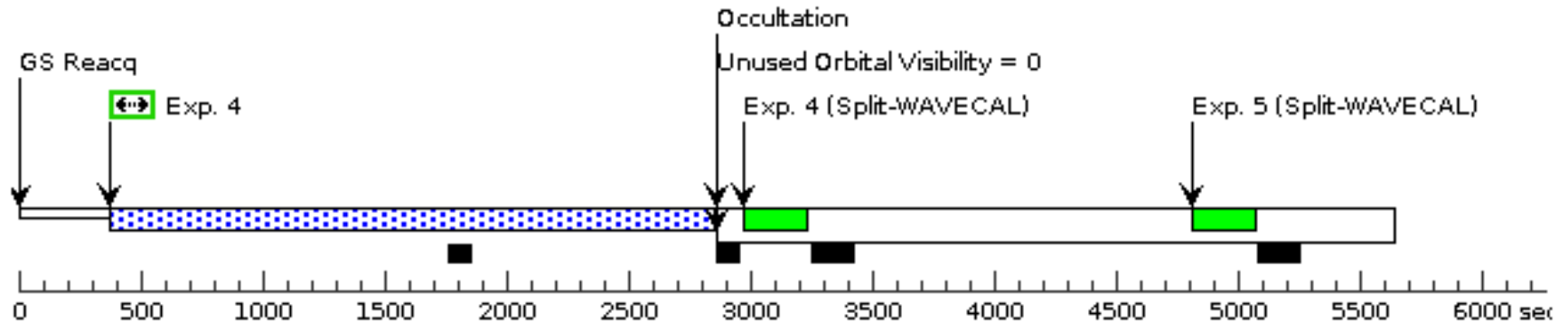
### Orbit 2

Server Version: 20260828



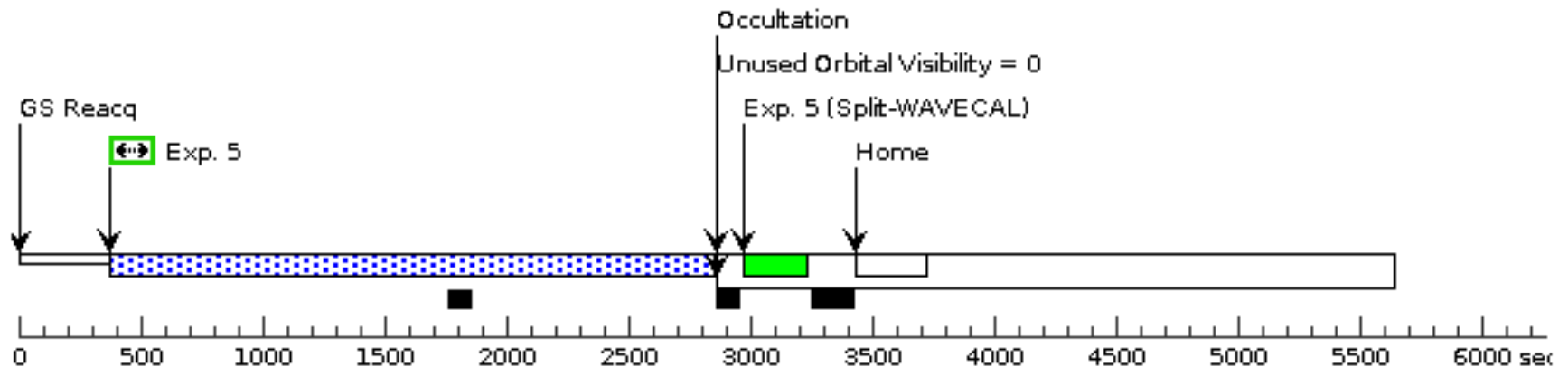
### Orbit 3

Server Version: 20260828



### Orbit 4

Server Version: 20260828

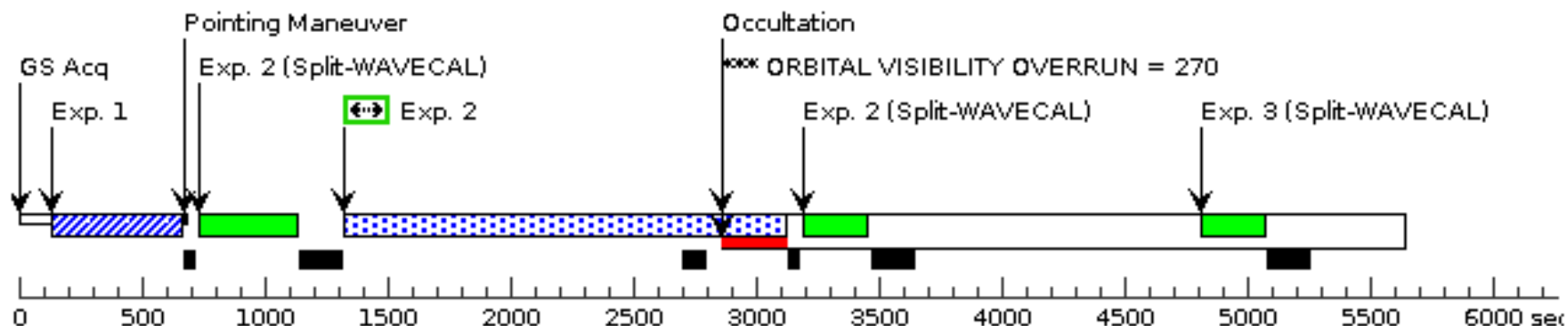


# Proposal 18258 - G130M-Flare2 (02) - Rocky Worlds DDT: HST Observations of TOI-244

|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|----------------------------------|-----------------|-----------------------------------|---------------|-----------------------|---------------------------------|------------------------------|-------|--|--|
| Visit                      | Proposal 18258, G130M-Flare2 (02), implementation                                                                                                                                                                                                                                               |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 | Wed Sep 30 18:01:06 GMT 2026 |       |  |  |
|                            | Diagnostic Status: Warning                                                                                                                                                                                                                                                                      |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            | Scientific Instruments: COS/FUV, COS/NUV                                                                                                                                                                                                                                                        |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            | Special Requirements: SCHED 100%                                                                                                                                                                                                                                                                |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
| Comments: Flare Monitoring |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
| Diagnostics                | (G130M-Flare2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                         |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
| Fixed Targets              | #                                                                                                                                                                                                                                                                                               | Name                                                                                              | Target Coordinates              |                         | Targ. Coord. Corrections         |                 | Fluxes                            |               | Miscellaneous         |                                 |                              |       |  |  |
|                            | (1)                                                                                                                                                                                                                                                                                             | TOI-244                                                                                           | RA: 00 42 16.7344 (10.5697267d) |                         | Proper Motion RA: -154.88 mas/yr |                 | V=12.693                          |               | Reference Frame: ICRS |                                 |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 | Alt Name1: G-267-158                                                                              | Dec: -36 43 4.68 (-36.71797d)   |                         | Proper Motion Dec: 45.632 mas/yr |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   | Equinox: J2000                  |                         | Parallax: 0.0452998"             |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         | Epoch of Position: 2016          |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            | Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            | Category=STAR                                                                                                                                                                                                                                                                                   |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            | Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
|                            | Extended=NO                                                                                                                                                                                                                                                                                     |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       |                                 |                              |       |  |  |
| Exposures                  | #                                                                                                                                                                                                                                                                                               | Label<br>(ETC Run)                                                                                | Target                          | Config,Mode,Aperture    |                                  | Spectral Els.   | Opt. Params.                      | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.] |                              | Orbit |  |  |
|                            | 1                                                                                                                                                                                                                                                                                               | Acquisition<br>(COS.ta.233<br>6443)                                                               | (1) TOI-244                     | COS/NUV, ACQ/IMAGE, PSA |                                  | MIRRORB         |                                   |               |                       | 111 Secs (111 Secs)             |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       | [==>]                           |                              | [1]   |  |  |
|                            | 2                                                                                                                                                                                                                                                                                               | G130M/122<br>2-FP1<br>(COS.sp.233<br>6446)                                                        | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA  |                                  | G130M<br>1222 A | FP-POS=1;<br>BUFFER-TIME=13<br>50 |               |                       | 1750 Secs (1750 Secs)           |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       | [==>]                           |                              | [1]   |  |  |
|                            | 3                                                                                                                                                                                                                                                                                               | G130M/122<br>2-FP2<br>(COS.sp.233<br>6446)                                                        | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA  |                                  | G130M<br>1222 A | FP-POS=2;<br>BUFFER-TIME=13<br>50 |               |                       | 2428 Secs (2428 Secs)           |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       | [==>]                           |                              | [2]   |  |  |
|                            | 4                                                                                                                                                                                                                                                                                               | G130M/122<br>2-FP3<br>(COS.sp.233<br>6446)                                                        | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA  |                                  | G130M<br>1222 A | FP-POS=3;<br>BUFFER-TIME=13<br>50 |               |                       | 2428 Secs (2428 Secs)           |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         |                                  |                 |                                   |               |                       | [==>]                           |                              | [3]   |  |  |
|                            | 5                                                                                                                                                                                                                                                                                               | G130M/122<br>2-FP4<br>(COS.sp.233<br>6446)                                                        | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA  |                                  | G130M<br>1222 A | FP-POS=4;<br>BUFFER-TIME=13<br>50 |               |                       | 2428 Secs (2428 Secs)           |                              |       |  |  |
|                            |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                         |                                  |                 |                                   |               | [==>]                 |                                 | [4]                          |       |  |  |

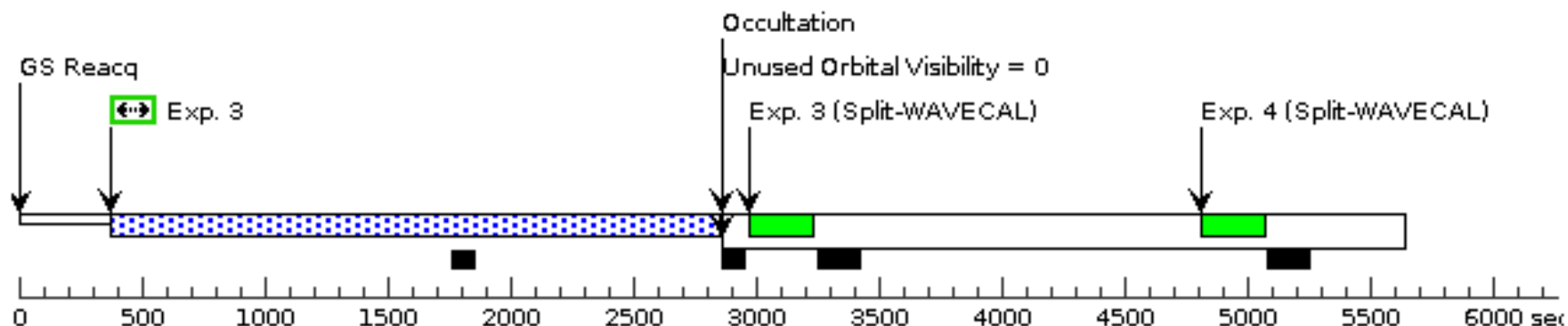
### Orbit 1

Server Version: 20260828



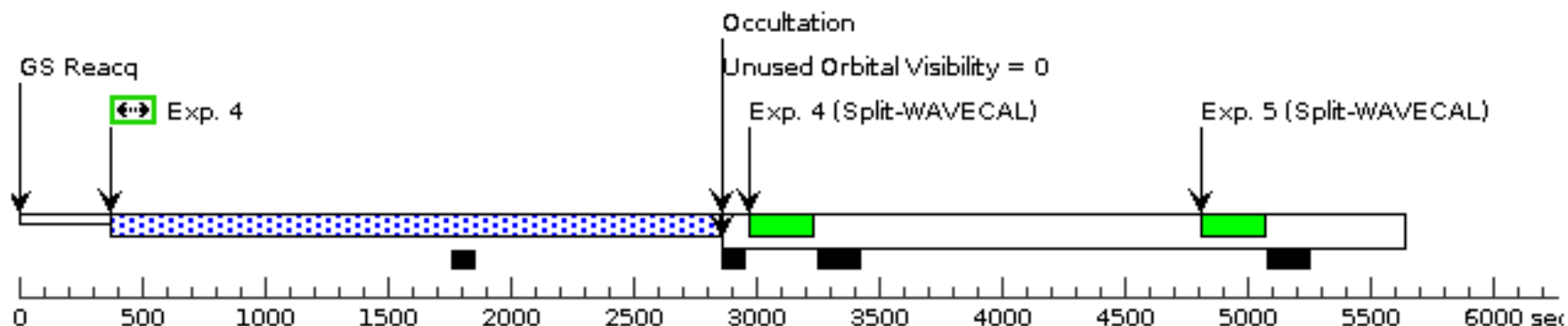
### Orbit 2

Server Version: 20260828



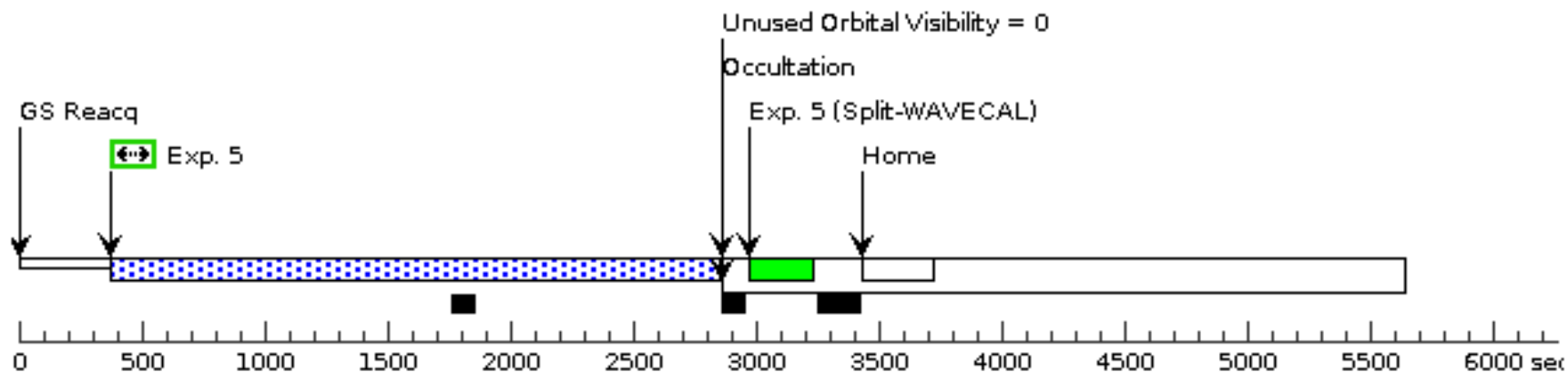
### Orbit 3

Server Version: 20260828



### Orbit 4

Server Version: 20260828

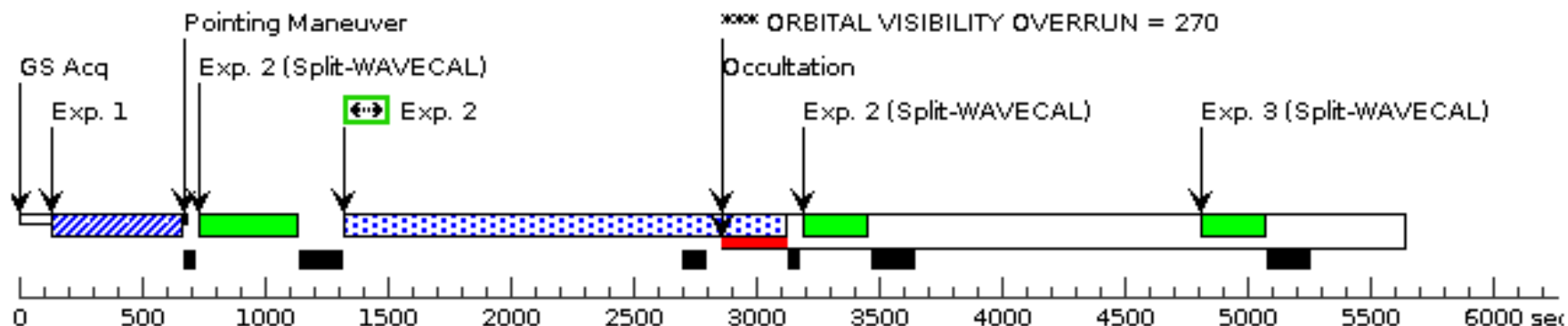


# Proposal 18258 - G130M-Flare3 (03) - Rocky Worlds DDT: HST Observations of TOI-244

|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------|----------------------------------|---------------|-----------------------------|---------------|--------|---------------------------------|-----|------------------------------|--|
| Visit                                                                                                                                                                                                                                                                                           | Proposal 18258, G130M-Flare3 (03), implementation                                                 |                                   |                                 |                                  |               |                             |               |        |                                 |     | Wed Sep 30 18:01:06 GMT 2026 |  |
|                                                                                                                                                                                                                                                                                                 | Diagnostic Status: Warning                                                                        |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 | Scientific Instruments: COS/FUV, COS/NUV                                                          |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 | Special Requirements: SCHED 100%                                                                  |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Comments: Flare Monitoring                                                                                                                                                                                                                                                                      |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Diagnostics                                                                                                                                                                                                                                                                                     | (G130M-Flare3 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                           |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Fixed Targets                                                                                                                                                                                                                                                                                   | #                                                                                                 | Name                              | Target Coordinates              | Targ. Coord. Corrections         | Fluxes        | Miscellaneous               |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 | (1)                                                                                               | TOI-244                           | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr | V=12.693      | Reference Frame: ICRS       |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   | Alt Name1: G-267-158              | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr |               |                             |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   | Equinox: J2000                  | Parallax: 0.0452998"             |               |                             |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 | Epoch of Position: 2016          |               |                             |               |        |                                 |     |                              |  |
|                                                                                                                                                                                                                                                                                                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Category=STAR                                                                                                                                                                                                                                                                                   |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Extended=NO                                                                                                                                                                                                                                                                                     |                                                                                                   |                                   |                                 |                                  |               |                             |               |        |                                 |     |                              |  |
| Exposures                                                                                                                                                                                                                                                                                       | #                                                                                                 | Label (ETC Run)                   | Target                          | Config,Mode,Aperture             | Spectral Els. | Opt. Params.                | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] |     | Orbit                        |  |
|                                                                                                                                                                                                                                                                                                 | 1                                                                                                 | Acquisition (COS.ta.233 6443)     | (1) TOI-244                     | COS/NUV, ACQ/IMAGE, PSA          | MIRRORB       |                             |               |        | 111 Secs (111 Secs)             |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 |                                  |               |                             |               |        | [==>]                           |     | [1]                          |  |
|                                                                                                                                                                                                                                                                                                 | 2                                                                                                 | G130M/122 2-FP1 (COS.sp.233 6446) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G130M 1222 A  | FP-POS=1; BUFFER-TIME=13 50 |               |        | 1750 Secs (1750 Secs)           |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 |                                  |               |                             |               |        | [==>]                           |     | [1]                          |  |
|                                                                                                                                                                                                                                                                                                 | 3                                                                                                 | G130M/122 2-FP2 (COS.sp.233 6446) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G130M 1222 A  | FP-POS=2; BUFFER-TIME=13 50 |               |        | 2428 Secs (2428 Secs)           |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 |                                  |               |                             |               |        | [==>]                           |     | [2]                          |  |
|                                                                                                                                                                                                                                                                                                 | 4                                                                                                 | G130M/122 2-FP3 (COS.sp.233 6446) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G130M 1222 A  | FP-POS=3; BUFFER-TIME=13 50 |               |        | 2428 Secs (2428 Secs)           |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 |                                  |               |                             |               | [==>]  |                                 | [3] |                              |  |
|                                                                                                                                                                                                                                                                                                 | 5                                                                                                 | G130M/122 2-FP4 (COS.sp.233 6446) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G130M 1222 A  | FP-POS=4; BUFFER-TIME=13 50 |               |        | 2428 Secs (2428 Secs)           |     |                              |  |
|                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                   |                                 |                                  |               |                             |               |        | [==>]                           |     | [4]                          |  |

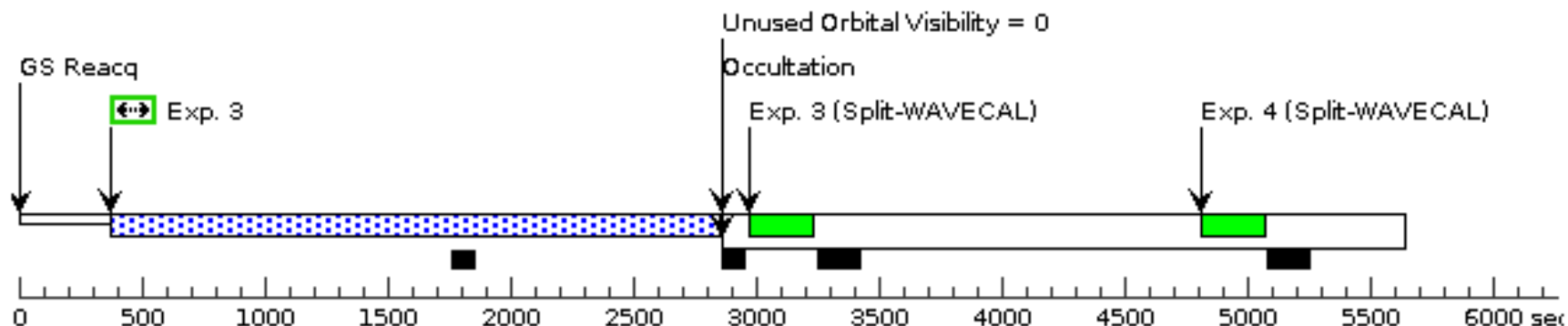
### Orbit 1

Server Version: 20260828



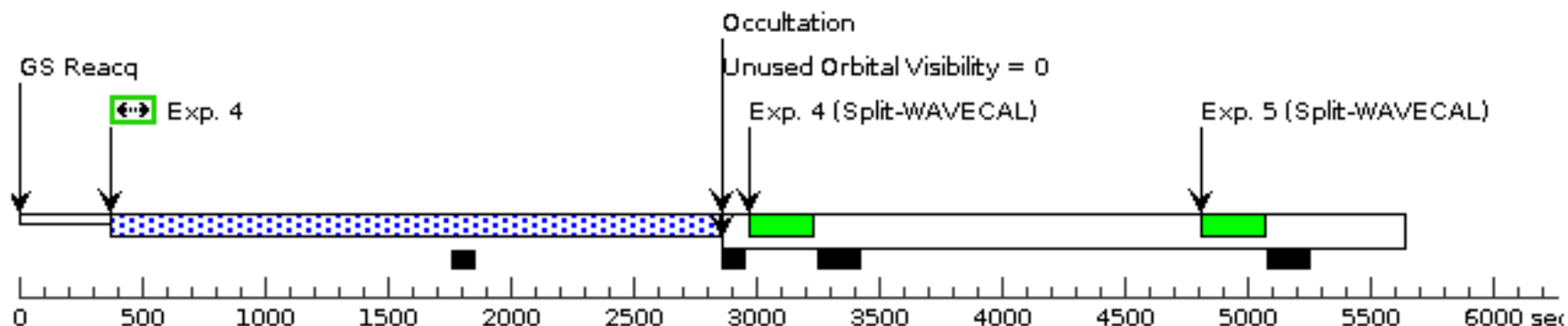
### Orbit 2

Server Version: 20260828



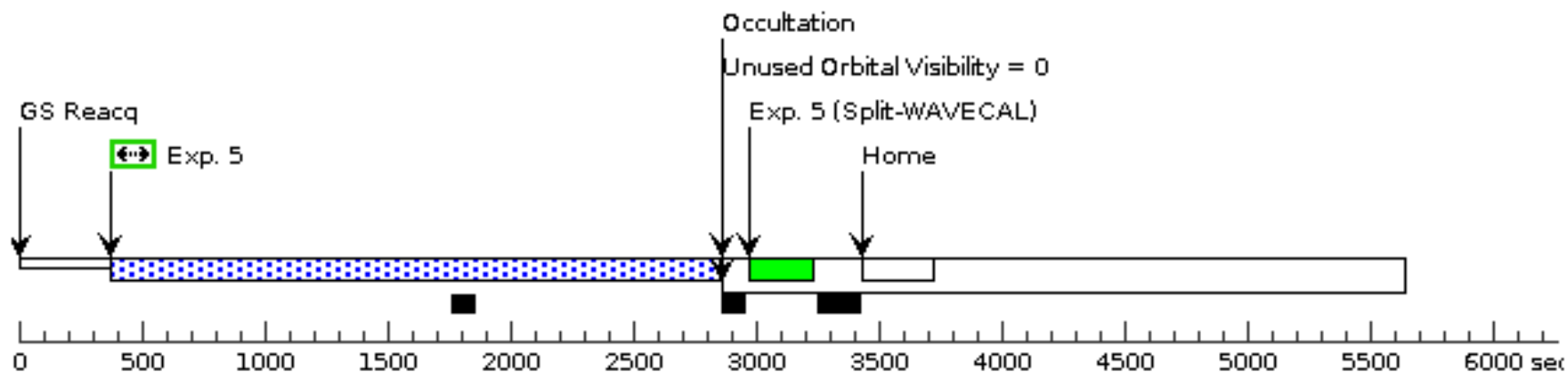
### Orbit 3

Server Version: 20260828



### Orbit 4

Server Version: 20260828

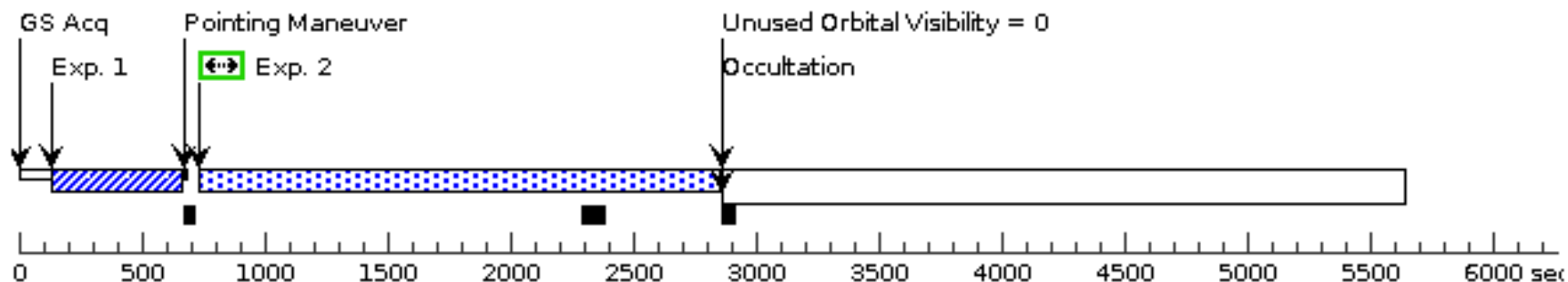


# Proposal 18258 - G160M-Coverage1 (04) - Rocky Worlds DDT: HST Observations of TOI-244

|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------|-----------------------------------|-----------------------------------|---------------|-----------------------|---------------------------------|-------|
| Visit         | Proposal 18258, G160M-Coverage1 (04), implementation                                                                                                                                                                                                                                            |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       | Wed Sep 30 18:01:06 GMT 2026    |       |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | Scientific Instruments: COS/FUV, COS/NUV                                                                                                                                                                                                                                                        |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | Special Requirements: SCHED 100%                                                                                                                                                                                                                                                                |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | Comments: FUV coverage for emission lines, primarily CIV Using CENWAVE 1600 to avoid Si IV, which would be to bright in a flaring condition. This line is well detected in archival data.                                                                                                       |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                                                                                                                               | Target Coordinates              | Targ. Coord. Corrections         |                                   | Fluxes                            |               | Miscellaneous         |                                 |       |
|               | (1)                                                                                                                                                                                                                                                                                             | TOI-244                                                                                                                            | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr |                                   | V=12.693                          |               | Reference Frame: ICRS |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 | Alt Name1: G-267-158                                                                                                               | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr |                                   |                                   |               |                       |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    | Equinox: J2000                  | Parallax: 0.0452998"             |                                   |                                   |               |                       |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                 | Epoch of Position: 2016          |                                   |                                   |               |                       |                                 |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | Category=STAR                                                                                                                                                                                                                                                                                   |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | Extended=NO                                                                                                                                                                                                                                                                                     |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       |                                 |       |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)                                                                                                                    | Target                          | Config,Mode,Aperture             | Spectral Els.                     | Opt. Params.                      | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.] | Orbit |
|               | 1                                                                                                                                                                                                                                                                                               | Acquisition (COS.ta.233 6443)                                                                                                      | (1) TOI-244                     | COS/NUV, ACQ/IMAGE, PSA          | MIRRORB                           |                                   |               |                       | 111 Secs (111 Secs)             |       |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       | [==>]                           | [1]   |
|               |                                                                                                                                                                                                                                                                                                 | Comments: Lifetime check for G160M:<br>Initial look is ~3 counts total in the Brightest emission line per FP-POS. We should be ok. |                                 |                                  |                                   |                                   |               |                       |                                 |       |
|               | 2                                                                                                                                                                                                                                                                                               | G160M/153 3-FP1 (COS.sp.233 6448)                                                                                                  | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A                   | FP-POS=1;<br>BUFFER-TIME=13<br>50 |               |                       | 1896 Secs (1896 Secs)           |       |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       | [==>]                           | [1]   |
|               | 3                                                                                                                                                                                                                                                                                               | G160M/153 3-FP2 (COS.sp.233 6263)                                                                                                  | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A                   | FP-POS=2;<br>BUFFER-TIME=13<br>50 |               |                       | 2424 Secs (2424 Secs)           |       |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       | [==>]                           | [2]   |
|               | 4                                                                                                                                                                                                                                                                                               | G160M/153 3-FP3 (COS.sp.233 6263)                                                                                                  | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A                   | FP-POS=3;<br>BUFFER-TIME=13<br>50 |               |                       | 2424 Secs (2424 Secs)           |       |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                 |                                  |                                   |                                   |               |                       | [==>]                           | [3]   |
| 5             | G160M/153 3-FP4 (COS.sp.233 6263)                                                                                                                                                                                                                                                               | (1) TOI-244                                                                                                                        | COS/FUV, TIME-TAG, PSA          | G160M<br>1533 A                  | FP-POS=4;<br>BUFFER-TIME=13<br>50 |                                   |               | 2424 Secs (2424 Secs) |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                                                    |                                 |                                  |                                   |                                   |               | [==>]                 | [4]                             |       |

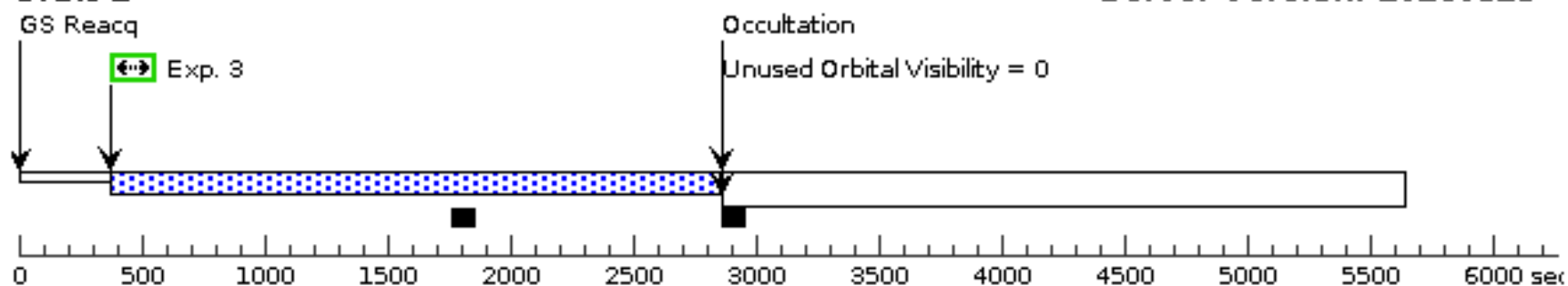
### Orbit 1

Server Version: 20260828



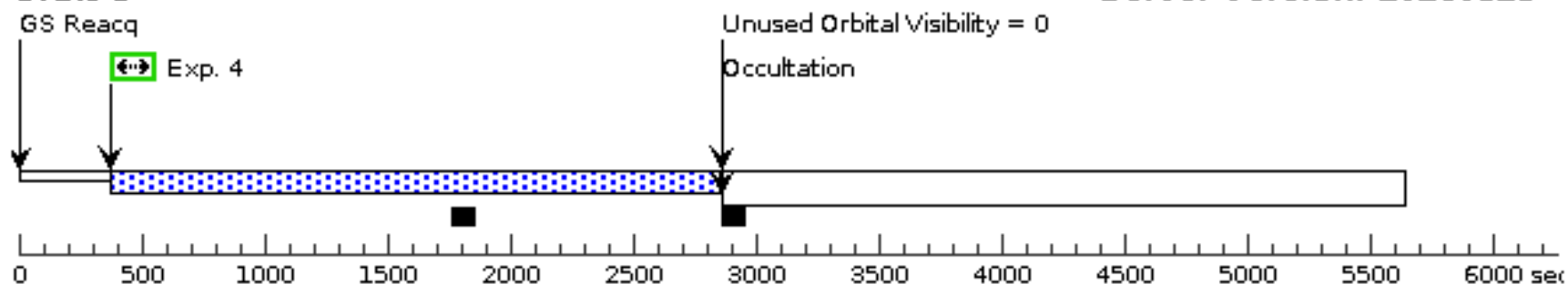
### Orbit 2

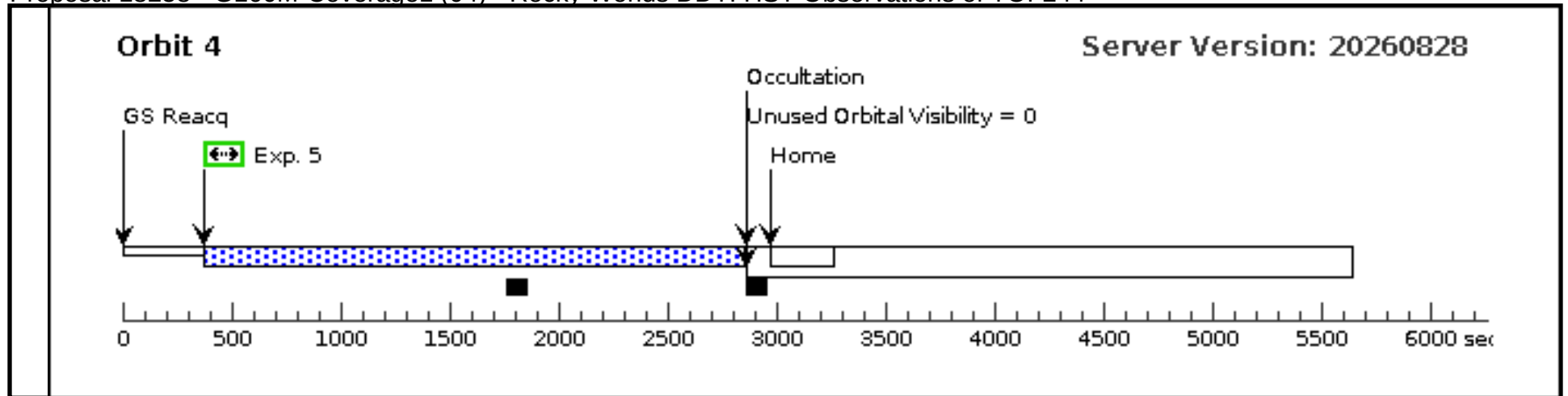
Server Version: 20260828



### Orbit 3

Server Version: 20260828



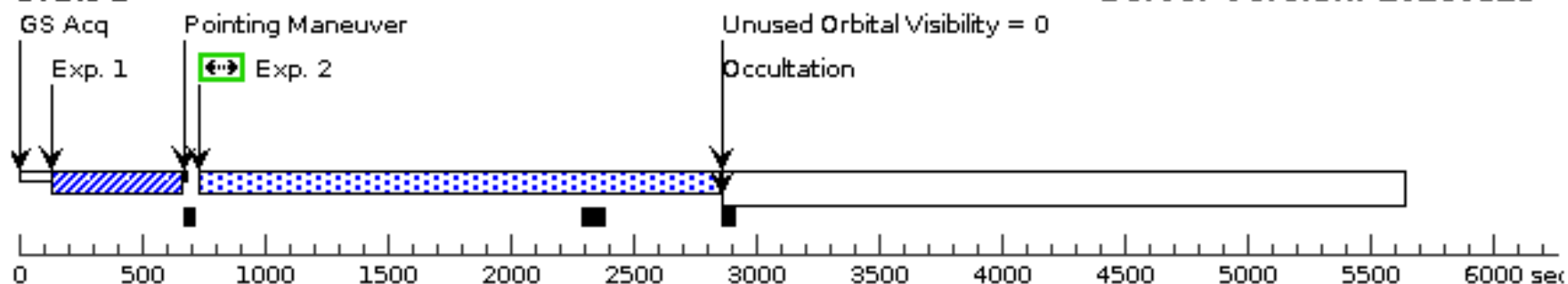


# Proposal 18258 - G160M-Coverage2 (05) - Rocky Worlds DDT: HST Observations of TOI-244

|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------|---------------------------------|----------------------------------|-----------------------------------|-----------------------------------|---------------|------------------------------|---------------------------------|-------|
| Visit                                                                                                                                                                                                                                                                                           | Proposal 18258, G160M-Coverage2 (05), implementation |                                   |                                 |                                  |                                   |                                   |               | Wed Sep 30 18:01:06 GMT 2026 |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Diagnostic Status: No Diagnostics                    |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Scientific Instruments: COS/FUV, COS/NUV             |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Special Requirements: SCHED 100%                     |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| Comments: FUV coverage for emission lines, primarily CIV Using CENWAVE 1600 to avoid Si IV, which would be to bright in a flaring condition. This line is well detected in archival data.                                                                                                       |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| Fixed Targets                                                                                                                                                                                                                                                                                   | #                                                    | Name                              | Target Coordinates              | Targ. Coord. Corrections         | Fluxes                            | Miscellaneous                     |               |                              |                                 |       |
|                                                                                                                                                                                                                                                                                                 | (1)                                                  | TOI-244                           | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr | V=12.693                          | Reference Frame: ICRS             |               |                              |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      | Alt Name1: G-267-158              | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr |                                   |                                   |               |                              |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   | Equinox: J2000                  | Parallax: 0.0452998"             |                                   |                                   |               |                              |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 | Epoch of Position: 2016          |                                   |                                   |               |                              |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| Category=STAR                                                                                                                                                                                                                                                                                   |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| Extended=NO                                                                                                                                                                                                                                                                                     |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              |                                 |       |
| Exposures                                                                                                                                                                                                                                                                                       | #                                                    | Label (ETC Run)                   | Target                          | Config,Mode,Aperture             | Spectral Els.                     | Opt. Params.                      | Special Reqs. | Groups                       | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                                                                                                                                                                                                                 | 1                                                    | Acquisition (COS.ta.233 6443)     | (1) TOI-244                     | COS/NUV, ACQ/IMAGE, PSA          | MIRRORB                           |                                   |               |                              | 111 Secs (111 Secs)             |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              | [==>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 | 2                                                    | G160M/153 3-FP1 (COS.sp.233 6263) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A                   | FP-POS=1;<br>BUFFER-TIME=13<br>50 |               |                              | 1896 Secs (1896 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              | [==>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 | 3                                                    | G160M/153 3-FP2 (COS.sp.233 6263) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A                   | FP-POS=2;<br>BUFFER-TIME=13<br>50 |               |                              | 2424 Secs (2424 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                                   |                                   |               |                              | [==>]                           | [2]   |
| 4                                                                                                                                                                                                                                                                                               | G160M/153 3-FP3 (COS.sp.233 6263)                    | (1) TOI-244                       | COS/FUV, TIME-TAG, PSA          | G160M<br>1533 A                  | FP-POS=3;<br>BUFFER-TIME=13<br>50 |                                   |               | 2424 Secs (2424 Secs)        |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                                   |                                   |               | [==>]                        | [3]                             |       |
| 5                                                                                                                                                                                                                                                                                               | G160M/153 3-FP4 (COS.sp.233 6263)                    | (1) TOI-244                       | COS/FUV, TIME-TAG, PSA          | G160M<br>1533 A                  | FP-POS=4;<br>BUFFER-TIME=13<br>50 |                                   |               | 2424 Secs (2424 Secs)        |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                                   |                                   |               | [==>]                        | [4]                             |       |

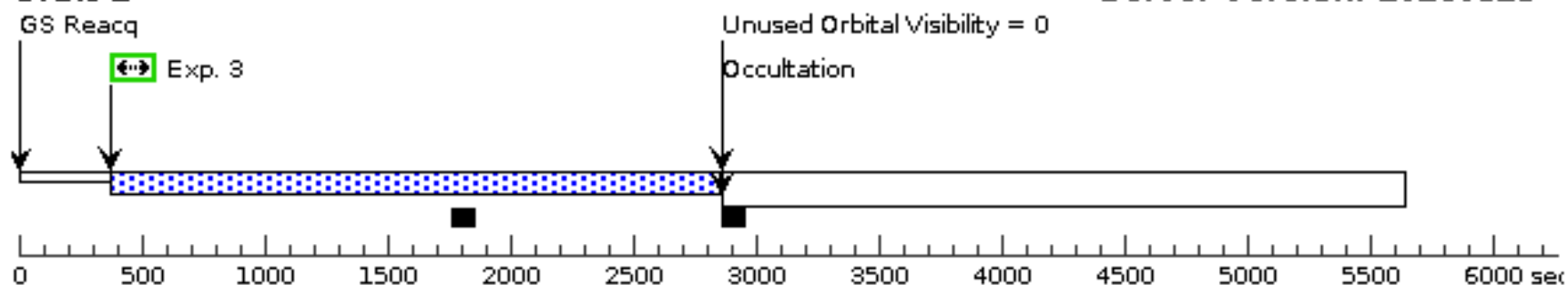
### Orbit 1

Server Version: 20260828



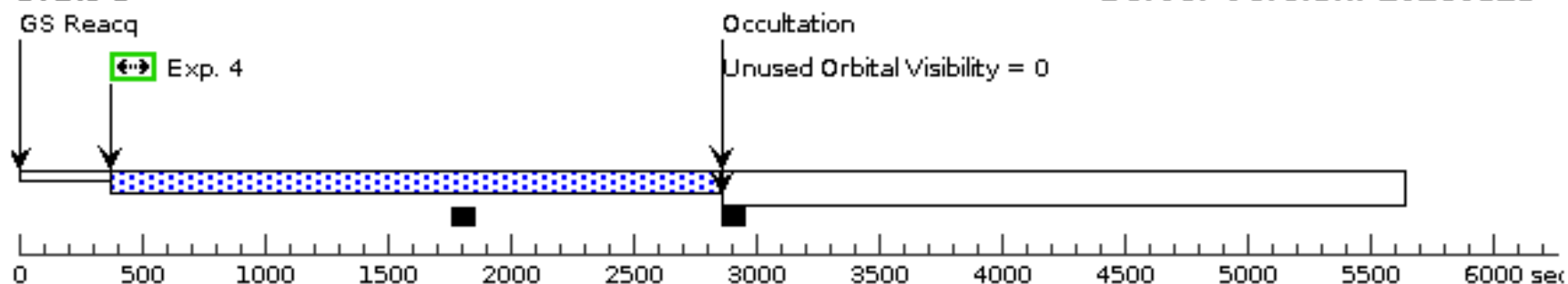
### Orbit 2

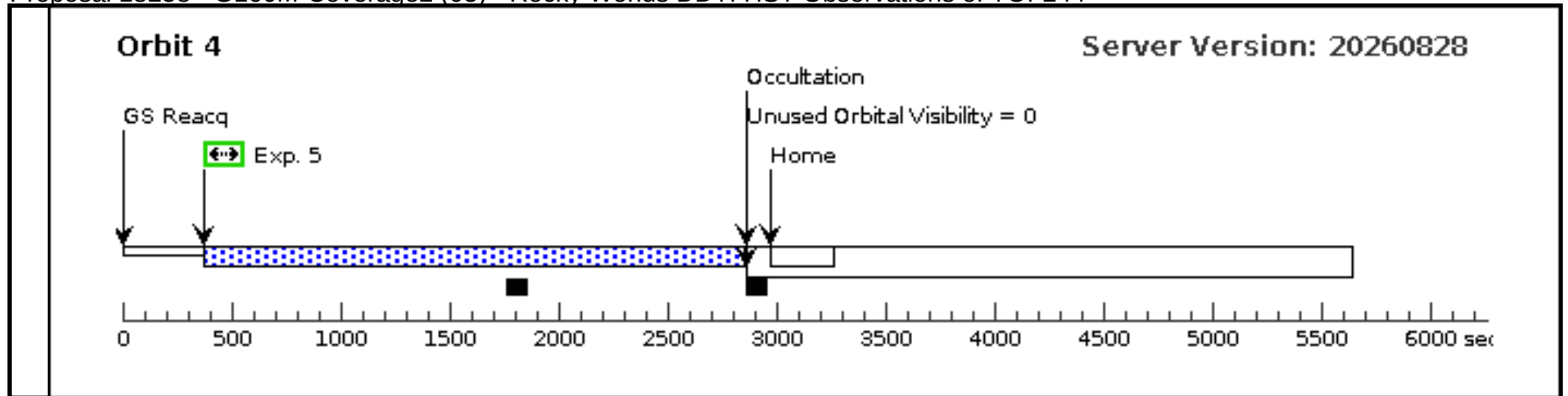
Server Version: 20260828



### Orbit 3

Server Version: 20260828



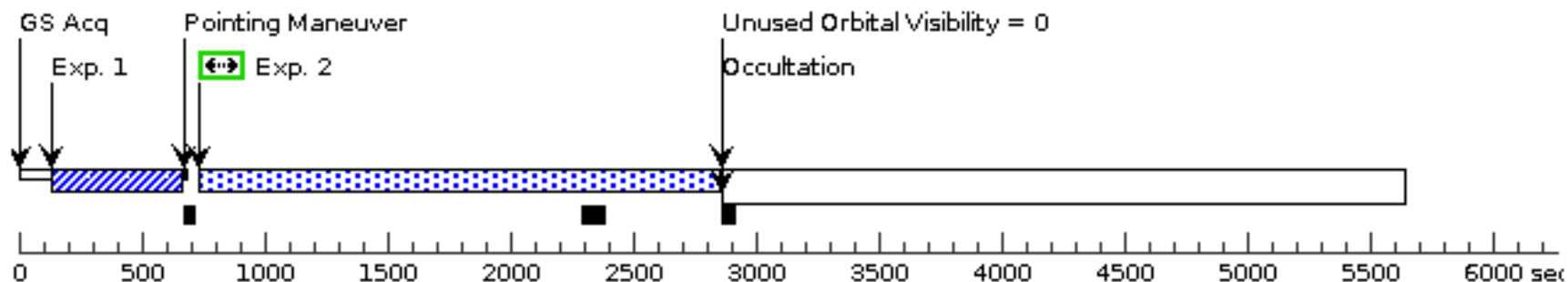


# Proposal 18258 - G160M-Coverage3 (06) - Rocky Worlds DDT: HST Observations of TOI-244

|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------|---------------------------------|----------------------------------|-----------------|-----------------------------------|------------------------------|--------|---------------------------------|-------|
| Visit                                                                                                                                                                                                                                                                                           | Proposal 18258, G160M-Coverage3 (06), implementation |                                   |                                 |                                  |                 |                                   | Wed Sep 30 18:01:06 GMT 2026 |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Diagnostic Status: No Diagnostics                    |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Scientific Instruments: COS/FUV, COS/NUV             |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Special Requirements: SCHED 100%                     |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| Comments: FUV coverage for emission lines, primarily CIV Using CENWAVE 1600 to avoid Si IV, which would be to bright in a flaring condition. This line is well detected in archival data.                                                                                                       |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| Fixed Targets                                                                                                                                                                                                                                                                                   | #                                                    | Name                              | Target Coordinates              | Targ. Coord. Corrections         | Fluxes          | Miscellaneous                     |                              |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | (1)                                                  | TOI-244                           | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr | V=12.693        | Reference Frame: ICRS             |                              |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      | Alt Name1: G-267-158              | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr |                 |                                   |                              |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   | Equinox: J2000                  | Parallax: 0.0452998"             |                 |                                   |                              |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 | Epoch of Position: 2016          |                 |                                   |                              |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| Category=STAR                                                                                                                                                                                                                                                                                   |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| Extended=NO                                                                                                                                                                                                                                                                                     |                                                      |                                   |                                 |                                  |                 |                                   |                              |        |                                 |       |
| Exposures                                                                                                                                                                                                                                                                                       | #                                                    | Label (ETC Run)                   | Target                          | Config,Mode,Aperture             | Spectral Els.   | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                                                                                                                                                                                                                 | 1                                                    | Acquisition (COS.ta.233 6443)     | (1) TOI-244                     | COS/NUV, ACQ/IMAGE, PSA          | MIRRORB         |                                   |                              |        | 111 Secs (111 Secs)             |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                 |                                   |                              |        | [==>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 | 2                                                    | G160M/153 3-FP1 (COS.sp.233 6263) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A | FP-POS=1;<br>BUFFER-TIME=13<br>50 |                              |        | 1896 Secs (1896 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                 |                                   |                              |        | [==>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 | 3                                                    | G160M/153 3-FP2 (COS.sp.233 6263) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A | FP-POS=2;<br>BUFFER-TIME=13<br>50 |                              |        | 2424 Secs (2424 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                 |                                   |                              |        | [==>]                           | [2]   |
|                                                                                                                                                                                                                                                                                                 | 4                                                    | G160M/153 3-FP3 (COS.sp.233 6263) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A | FP-POS=3;<br>BUFFER-TIME=13<br>50 |                              |        | 2424 Secs (2424 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                 |                                   |                              |        | [==>]                           | [3]   |
|                                                                                                                                                                                                                                                                                                 | 5                                                    | G160M/153 3-FP4 (COS.sp.233 6263) | (1) TOI-244                     | COS/FUV, TIME-TAG, PSA           | G160M<br>1533 A | FP-POS=4;<br>BUFFER-TIME=13<br>50 |                              |        | 2424 Secs (2424 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                      |                                   |                                 |                                  |                 |                                   |                              | [==>]  | [4]                             |       |

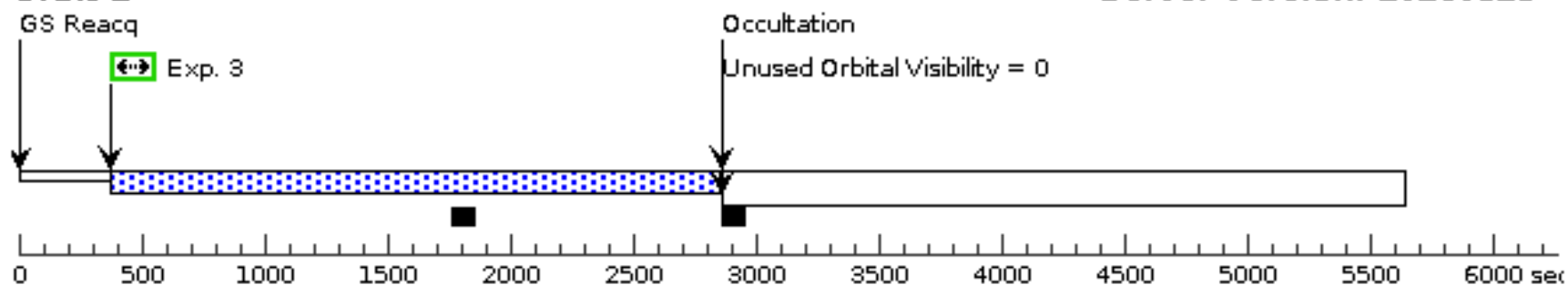
### Orbit 1

Server Version: 20260828



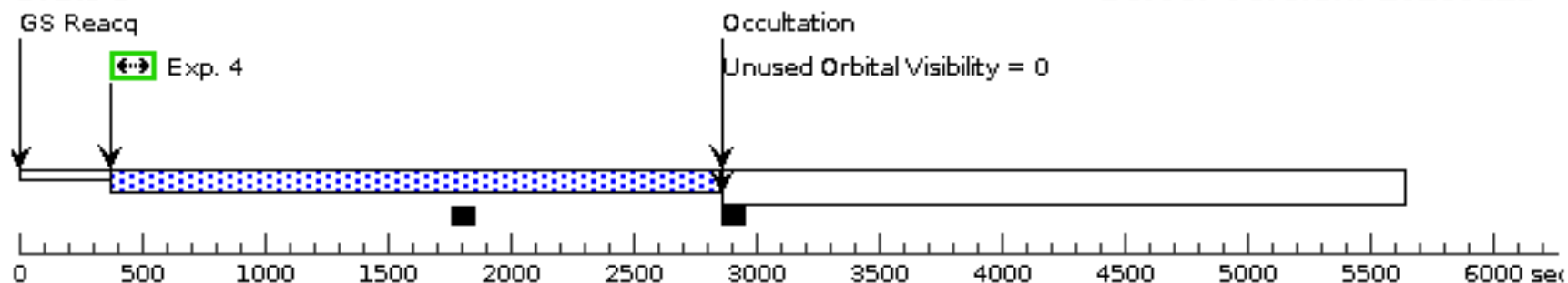
### Orbit 2

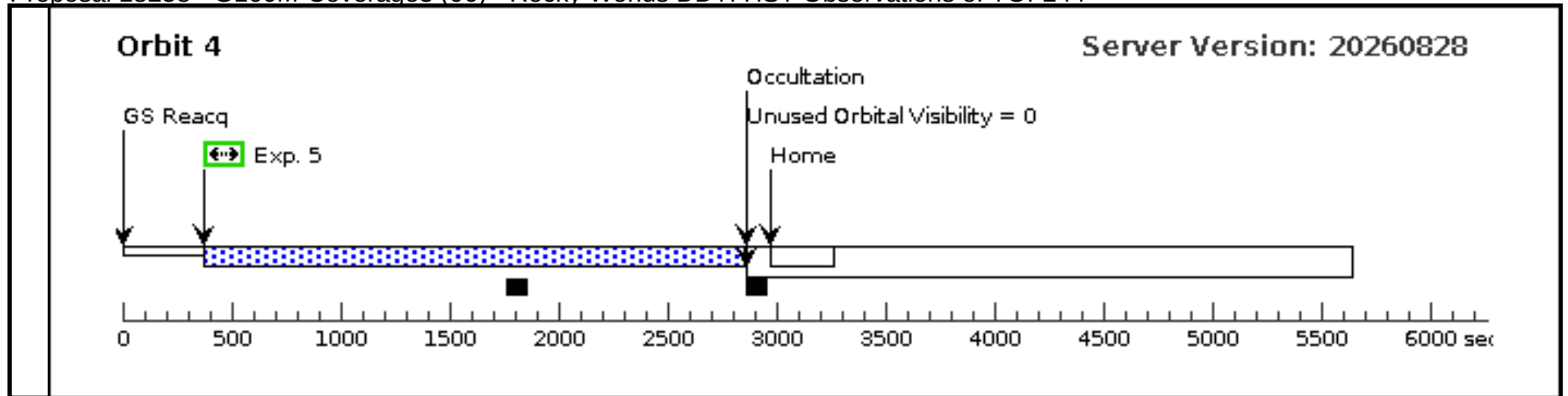
Server Version: 20260828



### Orbit 3

Server Version: 20260828





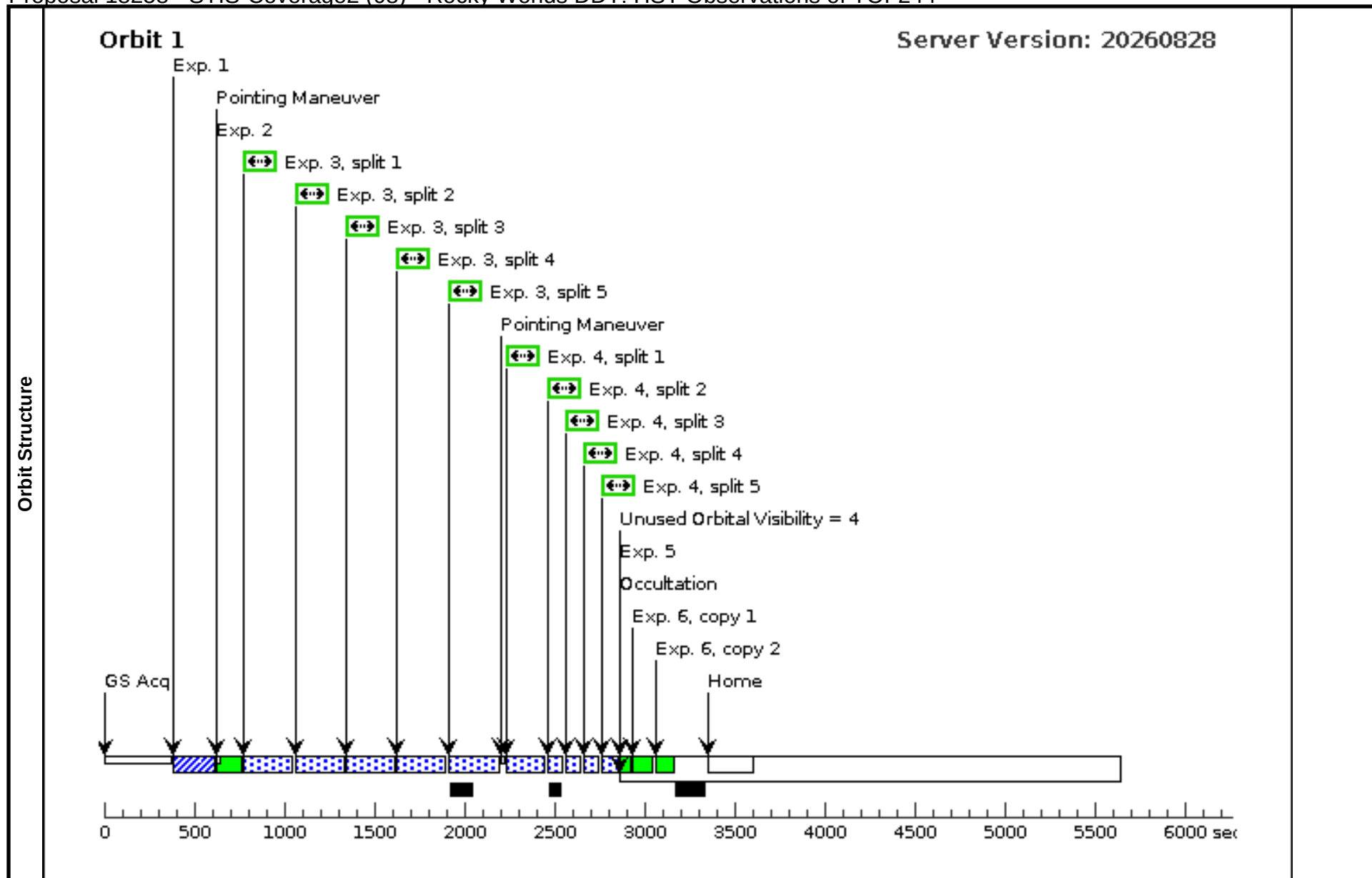
# Proposal 18258 - STIS-Coverage1 (07) - Rocky Worlds DDT: HST Observations of TOI-244

Wed Sep 30 18:01:06 GMT 2026

|                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|----------------------------------|---------------|------------------------------|---------------|--------|---------------------------------|-------|
| Visit                                                                                                                                                                                                                                                                                           | Proposal 18258, STIS-Coverage1 (07), completed                                                                                                                                                                                                                      |                                |                                 |                                  |               |                              |               |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                   |                                |                                 |                                  |               |                              |               |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Special Requirements: SCHED 100%                                                                                                                                                                                                                                    |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Comments: UV/Vis characterization                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Fixed Targets                                                                                                                                                                                                                                                                                   | #                                                                                                                                                                                                                                                                   | Name                           | Target Coordinates              | Targ. Coord. Corrections         | Fluxes        | Miscellaneous                |               |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 | (1)                                                                                                                                                                                                                                                                 | TOI-244                        | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr | V=12.693      | Reference Frame: ICRS        |               |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                     | Alt Name1: G-267-158           | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr |               |                              |               |        |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                     |                                | Equinox: J2000                  | Parallax: 0.0452998"             |               |                              |               |        |                                 |       |
| Epoch of Position: 2016                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Category=STAR                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Extended=NO                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        |                                 |       |
| Exposures                                                                                                                                                                                                                                                                                       | #                                                                                                                                                                                                                                                                   | Label (ETC Run)                | Target                          | Config,Mode,Aperture             | Spectral Els. | Opt. Params.                 | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                                                                                                                                                                                                                 | 1                                                                                                                                                                                                                                                                   | Acquisition (STIS.ta.234 8298) | (1) TOI-244                     | STIS/CCD, ACQ, F28X50LP          | MIRROR        |                              |               |        | 0.2 Secs (0.2 Secs)             |       |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        | [>=>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 | 2                                                                                                                                                                                                                                                                   | G230L exp1 (STIS.sp.23 36453)  | (1) TOI-244                     | STIS/NUV-MAMA, TIME-TAG, 52X0.2  | G230L 2376 A  | BUFFER-TIME=60 0; WAVECAL=NO |               |        | 2065 Secs (2065 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                     |                                |                                 |                                  |               |                              |               |        | [>=>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 | 3                                                                                                                                                                                                                                                                   |                                | WAVE                            | STIS/NUV-MAMA, ACCUM, 52X0.2     | G230L 2376 A  |                              |               |        | [>=>]                           | [1]   |
| Orbit Structure                                                                                                                                                                                                                                                                                 | <div><div>Orbit 1</div><div>Server Version: 20260828</div><div>Unused Orbital Visibility = 0</div><div><div>Exp. 1</div><div>Pointing Maneuver</div><div>Exp. 2</div><div>Exp. 3</div><div>Home</div><div>Occultation</div><div>GS Acq</div></div><div></div></div> |                                |                                 |                                  |               |                              |               |        |                                 |       |

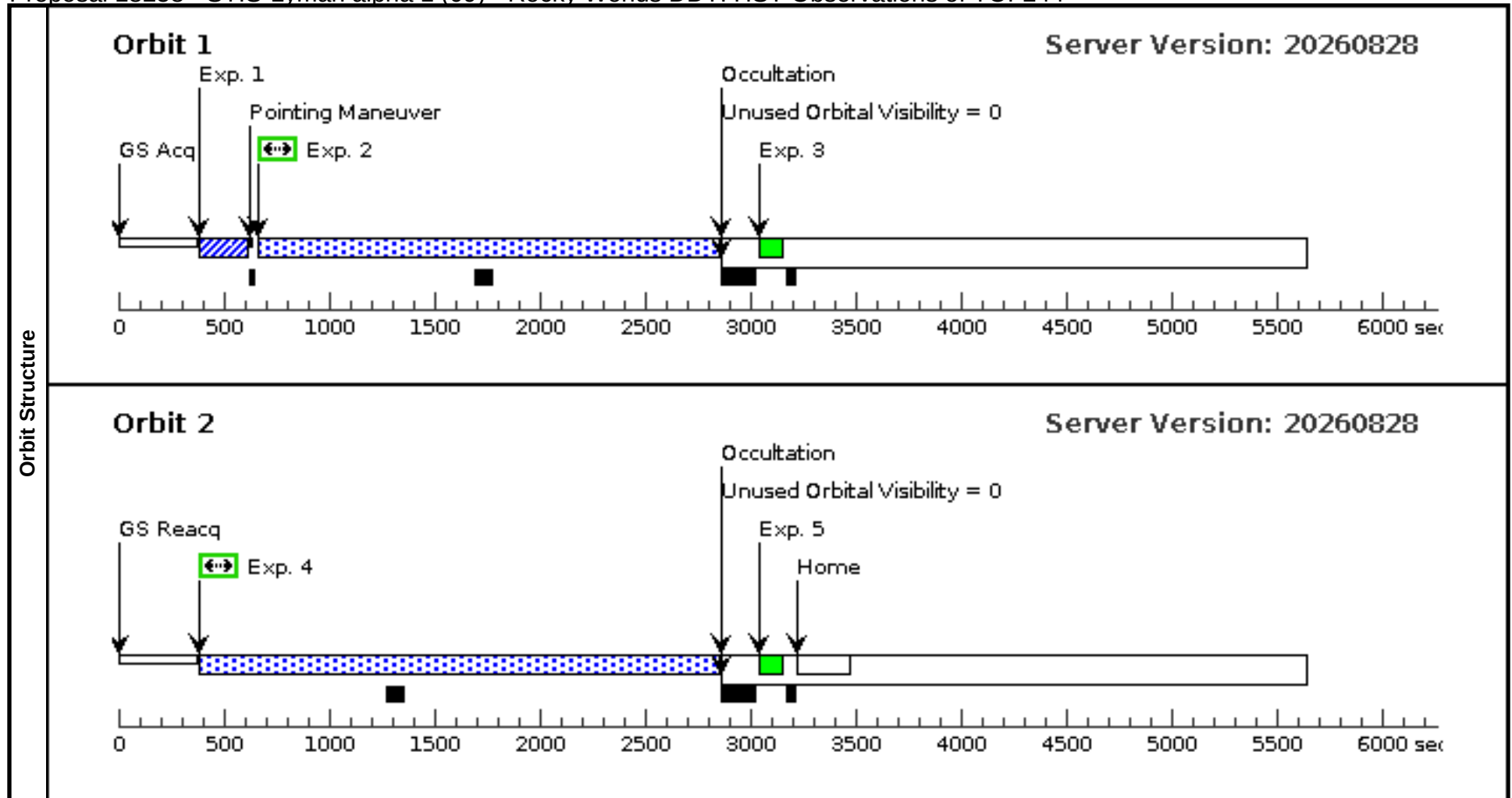
# Proposal 18258 - STIS-Coverage2 (08) - Rocky Worlds DDT: HST Observations of TOI-244

|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|---------------------------------|----------------------------------|---------------|-----------------------|---------------|---------------------|---------------------------------|-------|
| Visit                                                                                                                                                                                                                                                                                           | Proposal 18258, STIS-Coverage2 (08), implementation |                                |                                 |                                  |               |                       |               |                     | Wed Sep 30 18:01:06 GMT 2026    |       |
|                                                                                                                                                                                                                                                                                                 | Diagnostic Status: No Diagnostics                   |                                |                                 |                                  |               |                       |               |                     |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Scientific Instruments: STIS/CCD                    |                                |                                 |                                  |               |                       |               |                     |                                 |       |
|                                                                                                                                                                                                                                                                                                 | Special Requirements: SCHED 100%                    |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| Comments: UV/Vis characterization                                                                                                                                                                                                                                                               |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| Fixed Targets                                                                                                                                                                                                                                                                                   | #                                                   | Name                           | Target Coordinates              | Targ. Coord. Corrections         | Fluxes        | Miscellaneous         |               |                     |                                 |       |
|                                                                                                                                                                                                                                                                                                 | (1)                                                 | TOI-244                        | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr | V=12.693      | Reference Frame: ICRS |               |                     |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     | Alt Name1: G-267-158           | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr |               |                       |               |                     |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                | Equinox: J2000                  | Parallax: 0.0452998"             |               |                       |               |                     |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 | Epoch of Position: 2016          |               |                       |               |                     |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| Category=STAR                                                                                                                                                                                                                                                                                   |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| Extended=NO                                                                                                                                                                                                                                                                                     |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| Exposures                                                                                                                                                                                                                                                                                       | #                                                   | Label (ETC Run)                | Target                          | Config,Mode,Aperture             | Spectral Els. | Opt. Params.          | Special Reqs. | Groups              | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                                                                                                                                                                                                                 | 1                                                   | Acquisition (STIS.ta.234 8298) | (1) TOI-244                     | STIS/CCD, ACQ, F28X50LP          | MIRROR        |                       |               |                     | 0.2 Secs (0.2 Secs)             |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               |                     | [==>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 | 2                                                   |                                | WAVE                            | STIS/CCD, ACCUM, 52X0.2          | G430L         |                       |               |                     | [==>]                           | [1]   |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  | 4300 A        |                       |               |                     |                                 |       |
|                                                                                                                                                                                                                                                                                                 | 3                                                   | G430L                          | (1) TOI-244                     | STIS/CCD, ACCUM, 52X0.2E1        | G430L         | CR-SPLIT=5            |               |                     | 1200 Secs (1200 Secs)           |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  | 4300 A        |                       |               |                     | [==>(Split 1)]                  | [1]   |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               |                     | [==>(Split 2)]                  |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               |                     | [==>(Split 3)]                  |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               |                     | [==>(Split 4)]                  |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               | [==>(Split 5)]      |                                 |       |
| Comments: 25% full well                                                                                                                                                                                                                                                                         |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| 4                                                                                                                                                                                                                                                                                               | G750L (STIS.sp.23 00929)                            | (1) TOI-244                    | STIS/CCD, ACCUM, 52X0.2         | G750L                            | CR-SPLIT=5;   |                       |               | 275 Secs (275 Secs) |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 | 7751 A                           | WAVECAL=NO    |                       |               | [==>(Split 1)]      | [1]                             |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               | [==>(Split 2)]      |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               | [==>(Split 3)]      |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               | [==>(Split 4)]      |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 |                                  |               |                       |               | [==>(Split 5)]      |                                 |       |
| Comments: 25% full well                                                                                                                                                                                                                                                                         |                                                     |                                |                                 |                                  |               |                       |               |                     |                                 |       |
| 5                                                                                                                                                                                                                                                                                               |                                                     | WAVE                           | STIS/CCD, ACCUM, 52X0.2         | G750L                            |               |                       |               | [==>]               |                                 |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 | 7751 A                           |               |                       |               |                     | [1]                             |       |
| 6                                                                                                                                                                                                                                                                                               | G750L FringeFlat                                    | CCDFLAT                        | STIS/CCD, ACCUM, 0.3X0.09       | G750L                            |               |                       |               | [==>(Copy 1)]       | [1]                             |       |
|                                                                                                                                                                                                                                                                                                 |                                                     |                                |                                 | 7751 A                           |               |                       |               | [==>(Copy 2)]       |                                 |       |



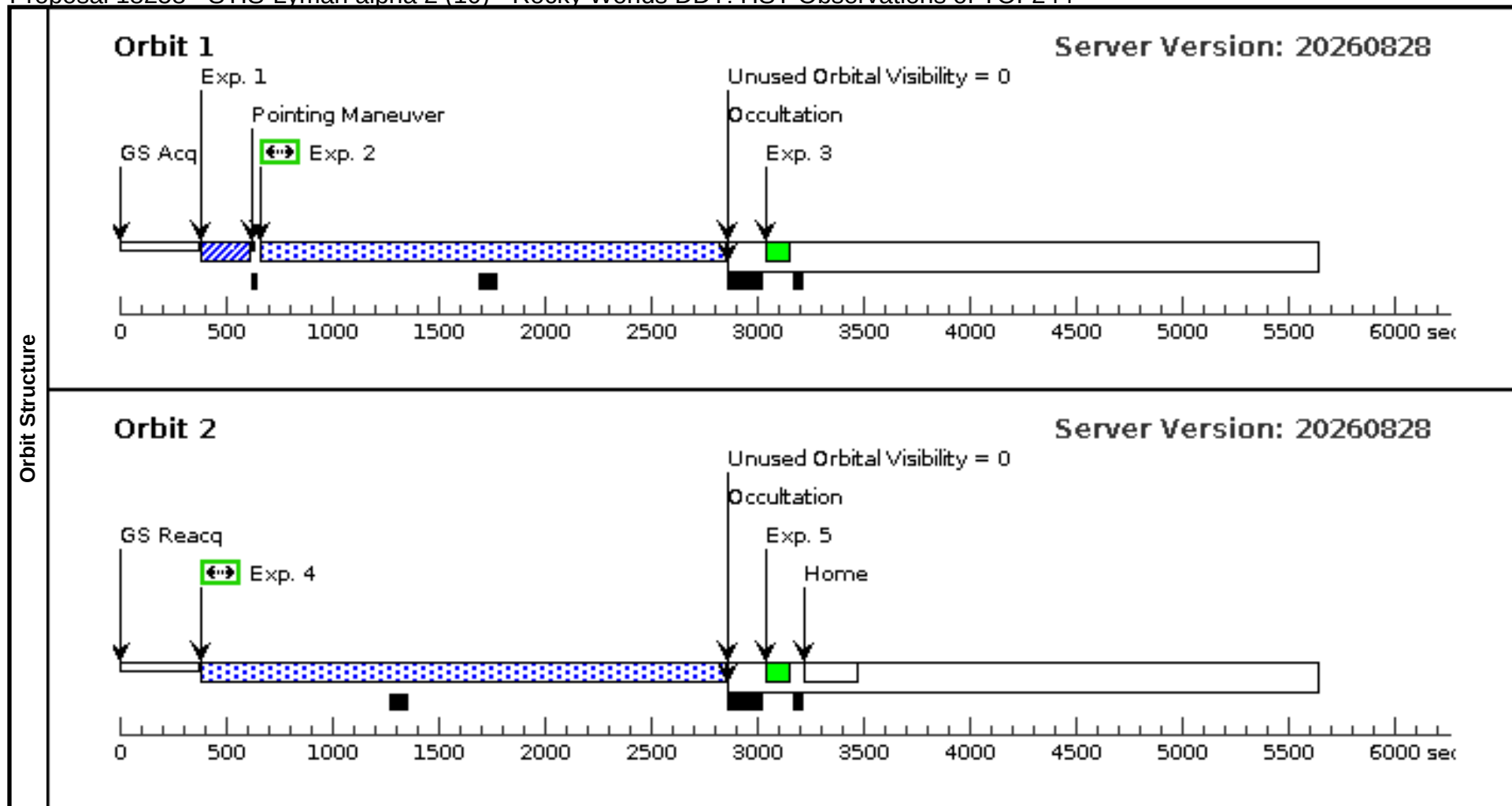
# Proposal 18258 - STIS-Lyman alpha 1 (09) - Rocky Worlds DDT: HST Observations of TOI-244

|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|-----------------------------------|---------------|-------------------|-----------------------|------------------------------|---------------------------------|-------|
| Visit         | Proposal 18258, STIS-Lyman alpha 1 (09), implementation                                                                                                                                                                                                                                         |                                |                                 |                                   |               |                   |                       | Wed Sep 30 18:01:06 GMT 2026 |                                 |       |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|               | Scientific Instruments: STIS/CCD, STIS/FUV-MAMA                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|               | Special Requirements: SCHED 100%; BETWEEN 01-OCT-2026 AND 20-AUG-2027                                                                                                                                                                                                                           |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                           | Target Coordinates              | Targ. Coord. Corrections          |               | Fluxes            | Miscellaneous         |                              |                                 |       |
|               | (1)                                                                                                                                                                                                                                                                                             | TOI-244                        | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr  |               | V=12.693          | Reference Frame: ICRS |                              |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 | Alt Name1: G-267-158           | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr  |               |                   |                       |                              |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                                | Equinox: J2000                  | Parallax: 0.0452998"              |               |                   |                       |                              |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 | Epoch of Position: 2016           |               |                   |                       |                              |                                 |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|               | Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|               | Category=STAR                                                                                                                                                                                                                                                                                   |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|               | Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
|               | Extended=NO                                                                                                                                                                                                                                                                                     |                                |                                 |                                   |               |                   |                       |                              |                                 |       |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)                | Target                          | Config,Mode,Aperture              | Spectral Els. | Opt. Params.      | Special Reqs.         | Groups                       | Exp. Time (Total)/[Actual Dur.] | Orbit |
|               | 1                                                                                                                                                                                                                                                                                               | Acquisition (STIS.ta.234 8298) | (1) TOI-244                     | STIS/CCD, ACQ, F28X50LP           | MIRROR        |                   |                       |                              | 0.2 Secs (0.2 Secs)             |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |                       |                              | [==>]                           | [1]   |
|               | 2                                                                                                                                                                                                                                                                                               | G140M 1 (STIS.sp.23 36449)     | (1) TOI-244                     | STIS/FUV-MAMA, TIME-TAG, 52X0.2D1 | G140M 1222 A  | BUFFER-TIME=90 0; |                       |                              | 2040 Secs (2040 Secs)           |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               | WAVECAL=NO        |                       |                              | [==>]                           | [1]   |
|               | 3                                                                                                                                                                                                                                                                                               | Wavecal                        | WAVE                            | STIS/FUV-MAMA, ACCUM, 52X0.2      | G140M 1222 A  |                   |                       |                              | [==>]                           | [1]   |
|               | 4                                                                                                                                                                                                                                                                                               | G140M 2 (STIS.sp.23 36449)     | (1) TOI-244                     | STIS/FUV-MAMA, TIME-TAG, 52X0.2D1 | G140M 1222 A  | BUFFER-TIME=90 0  |                       |                              | 2458 Secs (2458 Secs)           |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |                       |                              | [==>]                           | [2]   |
| 5             | Wavecal                                                                                                                                                                                                                                                                                         | WAVE                           | STIS/FUV-MAMA, ACCUM, 52X0.2    | G140M 1222 A                      |               |                   |                       | [==>]                        | [2]                             |       |



# Proposal 18258 - STIS-Lyman alpha 2 (10) - Rocky Worlds DDT: HST Observations of TOI-244

|               |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------|----------------------------------|-------------------|---------------|--------|---------------------------------|-------|------------------------------|
| Visit         | Proposal 18258, STIS-Lyman alpha 2 (10), implementation                                                                                                                                                                                                                                         |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       | Wed Sep 30 18:01:06 GMT 2026 |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|               | Scientific Instruments: STIS/CCD, STIS/FUV-MAMA                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|               | Special Requirements: SCHED 100%; BETWEEN 01-OCT-2026 AND 20-AUG-2027                                                                                                                                                                                                                           |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                                                                                              | Target Coordinates              |                                   | Targ. Coord. Corrections         |                   | Fluxes        |        | Miscellaneous                   |       |                              |
|               | (1)                                                                                                                                                                                                                                                                                             | TOI-244                                                                                           | RA: 00 42 16.7344 (10.5697267d) |                                   | Proper Motion RA: -154.88 mas/yr |                   | V=12.693      |        | Reference Frame: ICRS           |       |                              |
|               |                                                                                                                                                                                                                                                                                                 | Alt Name1: G-267-158                                                                              | Dec: -36 43 4.68 (-36.71797d)   |                                   | Proper Motion Dec: 45.632 mas/yr |                   |               |        |                                 |       |                              |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                   | Equinox: J2000                  |                                   | Parallax: 0.0452998"             |                   |               |        |                                 |       |                              |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                                   | Epoch of Position: 2016          |                   |               |        |                                 |       |                              |
|               |                                                                                                                                                                                                                                                                                                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|               | Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|               | Category=STAR                                                                                                                                                                                                                                                                                   |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|               | Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
|               | Extended=NO                                                                                                                                                                                                                                                                                     |                                                                                                   |                                 |                                   |                                  |                   |               |        |                                 |       |                              |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)                                                                                   | Target                          | Config,Mode,Aperture              | Spectral Els.                    | Opt. Params.      | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |                              |
|               | 1                                                                                                                                                                                                                                                                                               | Acquisition (STIS.ta.234 8298)                                                                    | (1) TOI-244                     | STIS/CCD, ACQ, F28X50LP           | MIRROR                           |                   |               |        | 0.2 Secs (0.2 Secs)             |       |                              |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                                   |                                  |                   |               |        | [==>]                           | [1]   |                              |
|               | 2                                                                                                                                                                                                                                                                                               | G140M 1 (STIS.sp.23 36449)                                                                        | (1) TOI-244                     | STIS/FUV-MAMA, TIME-TAG, 52X0.2D1 | G140M 1222 A                     | BUFFER-TIME=90 0; |               |        | 2040 Secs (2040 Secs)           |       |                              |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                                   |                                  | WAVECAL=NO        |               |        | [==>]                           | [1]   |                              |
|               | 3                                                                                                                                                                                                                                                                                               | Wavecal                                                                                           | WAVE                            | STIS/FUV-MAMA, ACCUM, 52X0.2      | G140M 1222 A                     |                   |               |        | [==>]                           | [1]   |                              |
|               | 4                                                                                                                                                                                                                                                                                               | G140M 2 (STIS.sp.23 36449)                                                                        | (1) TOI-244                     | STIS/FUV-MAMA, TIME-TAG, 52X0.2D1 | G140M 1222 A                     | BUFFER-TIME=90 0  |               |        | 2458 Secs (2458 Secs)           |       |                              |
|               |                                                                                                                                                                                                                                                                                                 |                                                                                                   |                                 |                                   |                                  |                   |               | [==>]  | [2]                             |       |                              |
| 5             | Wavecal                                                                                                                                                                                                                                                                                         | WAVE                                                                                              | STIS/FUV-MAMA, ACCUM, 52X0.2    | G140M 1222 A                      |                                  |                   |               | [==>]  | [2]                             |       |                              |



# Proposal 18258 - STIS-Lyman alpha 3 (11) - Rocky Worlds DDT: HST Observations of TOI-244

|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|-----------------------------------|---------------|-------------------|---------------|-----------------------|---------------------------------|-------|
| Visit         | Proposal 18258, STIS-Lyman alpha 3 (11), implementation                                                                                                                                                                                                                                         |                                |                                 |                                   |               |                   |               |                       | Wed Sep 30 18:01:06 GMT 2026    |       |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|               | Scientific Instruments: STIS/CCD, STIS/FUV-MAMA                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|               | Special Requirements: SCHED 100%; BETWEEN 01-OCT-2026 AND 20-AUG-2027                                                                                                                                                                                                                           |                                |                                 |                                   |               |                   |               |                       |                                 |       |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                           | Target Coordinates              | Targ. Coord. Corrections          |               | Fluxes            |               | Miscellaneous         |                                 |       |
|               | (1)                                                                                                                                                                                                                                                                                             | TOI-244                        | RA: 00 42 16.7344 (10.5697267d) | Proper Motion RA: -154.88 mas/yr  |               | V=12.693          |               | Reference Frame: ICRS |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 | Alt Name1: G-267-158           | Dec: -36 43 4.68 (-36.71797d)   | Proper Motion Dec: 45.632 mas/yr  |               |                   |               |                       |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                                | Equinox: J2000                  | Parallax: 0.0452998"              |               |                   |               |                       |                                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 | Epoch of Position: 2016           |               |                   |               |                       |                                 |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|               | Updated by RWDDT HST Scheduling Lead John Debes and Team Deputy Lead Hannah Diamond-Lowe.                                                                                                                                                                                                       |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|               | Category=STAR                                                                                                                                                                                                                                                                                   |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|               | Description=[EXTRA-SOLAR PLANET, M V-IV]                                                                                                                                                                                                                                                        |                                |                                 |                                   |               |                   |               |                       |                                 |       |
|               | Extended=NO                                                                                                                                                                                                                                                                                     |                                |                                 |                                   |               |                   |               |                       |                                 |       |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)                | Target                          | Config,Mode,Aperture              | Spectral Els. | Opt. Params.      | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.] | Orbit |
|               | 1                                                                                                                                                                                                                                                                                               | Acquisition (STIS.ta.234 8298) | (1) TOI-244                     | STIS/CCD, ACQ, F28X50LP           | MIRROR        |                   |               |                       | 0.2 Secs (0.2 Secs)             |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |               |                       | [==>]                           | [1]   |
|               | 2                                                                                                                                                                                                                                                                                               | G140M 1 (STIS.sp.23 36449)     | (1) TOI-244                     | STIS/FUV-MAMA, TIME-TAG, 52X0.2D1 | G140M 1222 A  | BUFFER-TIME=90 0; |               |                       | 2040 Secs (2040 Secs)           |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               | WAVECAL=NO        |               |                       | [==>]                           | [1]   |
|               | 3                                                                                                                                                                                                                                                                                               | Wavecal                        | WAVE                            | STIS/FUV-MAMA, ACCUM, 52X0.2      | G140M 1222 A  |                   |               |                       | [==>]                           | [1]   |
|               | 4                                                                                                                                                                                                                                                                                               | G140M 2 (STIS.sp.23 36449)     | (1) TOI-244                     | STIS/FUV-MAMA, TIME-TAG, 52X0.2D1 | G140M 1222 A  | BUFFER-TIME=90 0  |               |                       | 2458 Secs (2458 Secs)           |       |
|               |                                                                                                                                                                                                                                                                                                 |                                |                                 |                                   |               |                   |               |                       | [==>]                           | [2]   |
| 5             | Wavecal                                                                                                                                                                                                                                                                                         | WAVE                           | STIS/FUV-MAMA, ACCUM, 52X0.2    | G140M 1222 A                      |               |                   |               | [==>]                 | [2]                             |       |

