



17995 - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Cycle: 33, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> |
|-------------------------------------|---|
| Dr. Amy Simon (PI) (Contact) | NASA Goddard Space Flight Center |
| Michael H. Wong (CoI) (Contact) | University of California - Berkeley |
| Dr. Glenn S. Orton (CoI) | Jet Propulsion Laboratory |

VISITS

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:20.0 | yes |
| 02 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:21.0 | yes |
| 03 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:22.0 | yes |
| 04 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:23.0 | yes |
| 05 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:23.0 | yes |
| 06 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:24.0 | yes |
| 07 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:25.0 | yes |
| 08 | (3) URANUS-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:26.0 | yes |
| 09 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:27.0 | yes |
| 10 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:28.0 | yes |
| 11 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:28.0 | yes |
| 12 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:29.0 | yes |

Proposal 17995 (STScI Edit Number: 21, Created: Monday, October 6, 2025, 11:00:51AM Eastern Standard Time) - Overview

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 13 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:29.0 | yes |
| 14 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:30.0 | yes |
| 15 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:31.0 | yes |
| 16 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:31.0 | yes |
| 17 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:32.0 | yes |
| 18 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:33.0 | yes |
| 19 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:33.0 | yes |
| 20 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:34.0 | yes |
| 21 | (1) JUPITER-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:35.0 | yes |
| 22 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:35.0 | yes |
| 23 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:36.0 | yes |
| 24 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:37.0 | yes |
| 25 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:38.0 | yes |
| 26 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:39.0 | yes |
| 27 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:39.0 | yes |
| 28 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:40.0 | yes |
| 29 | (4) NEPTUNE-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:41.0 | yes |
| 30 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:42.0 | yes |
| 31 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:43.0 | yes |
| 32 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:43.0 | yes |
| 33 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:44.0 | yes |
| 34 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:45.0 | yes |
| 35 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:46.0 | yes |
| 36 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:47.0 | yes |
| 37 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:48.0 | yes |

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 38 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:48.0 | yes |
| 39 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:49.0 | yes |
| 40 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:50.0 | yes |
| 41 | (2) SATURN-MAPS | WFC3/UVIS | 1 | 06-Oct-2025 12:00:51.0 | yes |

41 Total Orbits Used

ABSTRACT

Long time base observations of the outer planets are critical in understanding the atmospheric dynamics and evolution of the gas giants. We propose yearly monitoring of each giant planet for the remainder of Hubble's lifetime to provide a lasting legacy of increasingly valuable data for time-domain studies. The Hubble Space Telescope is a unique asset to planetary science, allowing high spatial resolution data with absolute photometric knowledge. For the outer planets, gas/ice giant planets Jupiter, Saturn, Uranus and Neptune, many phenomena happen on timescales of years to decades, and the data we propose are beyond the scope of a typical GO program. Hubble is the only platform that can provide high spatial resolution global studies of cloud coloration, activity, and motion on a consistent time basis to help constrain the underlying mechanics. Note that Saturn is not requested until 2018, when orbit allocation would increase from 29 to 41; here we show the orbits for Cycle 22.

OBSERVING DESCRIPTION

Global mapping for each of the four outer planets. Orbits spaced to allow complete longitude coverage for two rotations. Jupiter and Saturn orbits (when applicable) should be contiguous, and small incursions into the SAA may be ok. Uranus and Neptune orbits are spaced to give complete longitude coverage. CC: the PI and Co-I Wong on all correspondence

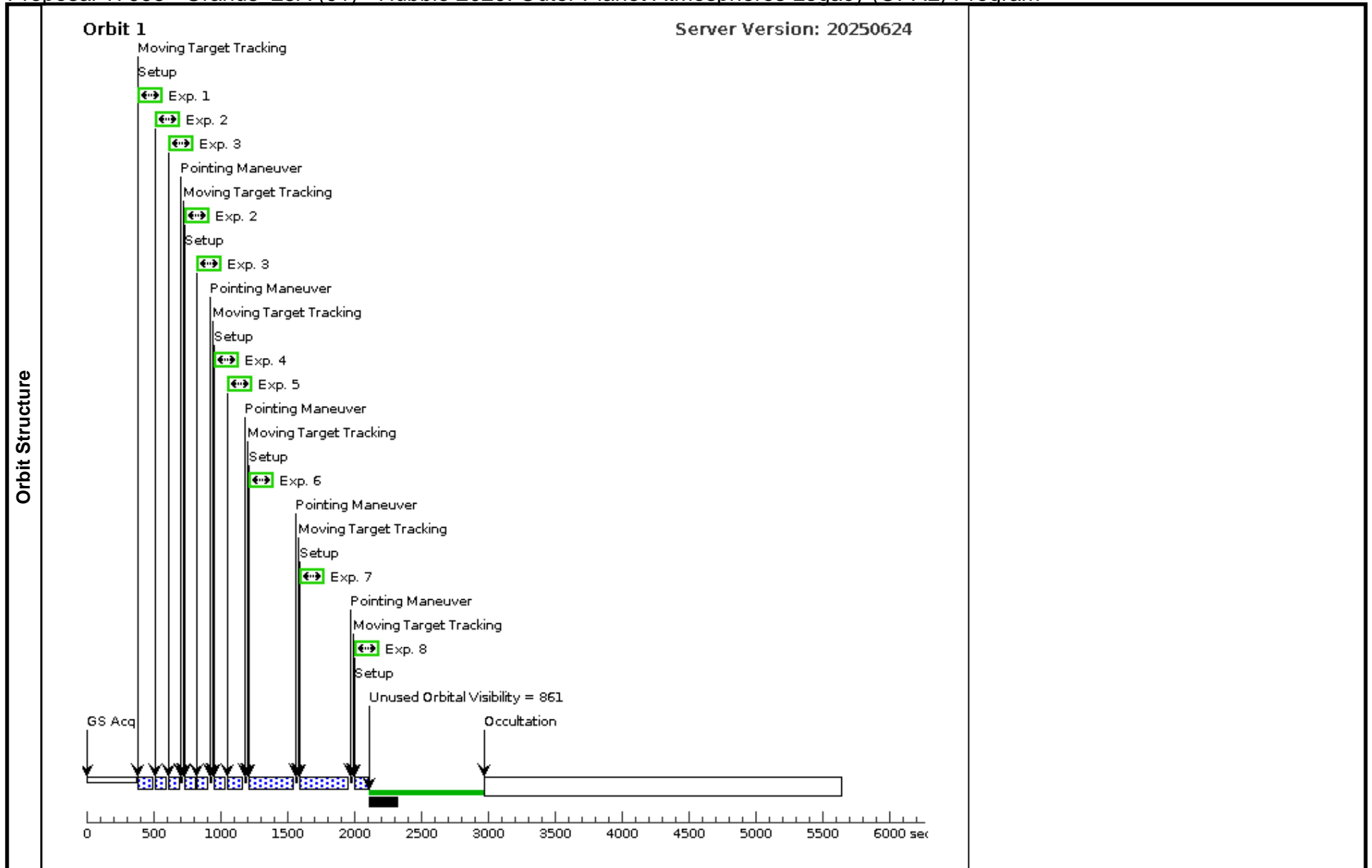
Proposal 17995 - Uranus 25A (01) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:51 GMT 2025

| Visit | <p>Proposal 17995, Uranus_25A (01), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 21-SEP-2025:00:00:00 AND 25-DEC-2025:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: 8 orbits, with 2-orbit gaps between all visits to satisfy observatory thermal constraints when target is > 168 deg from the Sun. A larger separation between orbits D/E (visits 4/5) is OK between Uranus rotations. Impingement into SAA is OK if the above timing gaps cannot prevent it.</i></p> <p><i>Uranus opposition (2025-NOV-21) +/- 30 days preferred, and earlier dates acceptable due to limited FOR</i></p> <p>TRIMMING RULES</p> <p><i>These are suggested actions to trim time from orbits in case of reduced visibility (for Uranus, gyro bias should not be a concern because no orbits are consecutive). Please try these in order:</i></p> <ol style="list-style-type: none"> <i>1. Pull the final F845M exposure out of its pattern and delete the pattern (i.e., at the end of the visit, only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>2. Pull the F763M exposure out of its pattern (i.e., only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>3. Pull the FQ727N exposure out of its pattern and delete the pattern (i.e., only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>4. Delete the final F845M exposure of the visit (leaving only the F845M exposure at the start of the visit). Can be done on a visit-by-visit basis as needed.</i> | | | | | | | | | | | | | | | |
|---|--|--|-------------------|-----------|-----------------|-------------------|-----------|--------|--|--|-------------|------------|--|--|--|-------|
| | <p>(F845M (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (01.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (01.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (01.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (01.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ727N_quadD (01.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (01.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F845M (01.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Uranus_25A (01)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> | | | | | | | | | | | | | | | |
| Diagnosics | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(2-3)</td> </tr> </tbody> </table> | | | # | Primary Pattern | Secondary Pattern | Exposures | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (2-3) | | | | | |
| | # | Primary Pattern | Secondary Pattern | Exposures | | | | | | | | | | | | |
| (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (2-3) | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>URANUS-MAPS</td> <td>STD=URANUS</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Global Uranus maps</i></p> | | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (3) | URANUS-MAPS | STD=URANUS | | | | EARTH |
| # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | |
| (3) | URANUS-MAPS | STD=URANUS | | | | EARTH | | | | | | | | | | |
| Patterns | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Solar System Targets | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Proposal 17995 - Uranus 25A (01) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|---|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) Pattern 2, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_25A (01) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) Pattern 2, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_25A (01) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) | 25 Secs (25 Secs) [==>] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.2; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) | 200 Secs (200 Secs) [==>] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25A (01) | 35 Secs (35 Secs) [==>] | [1] |



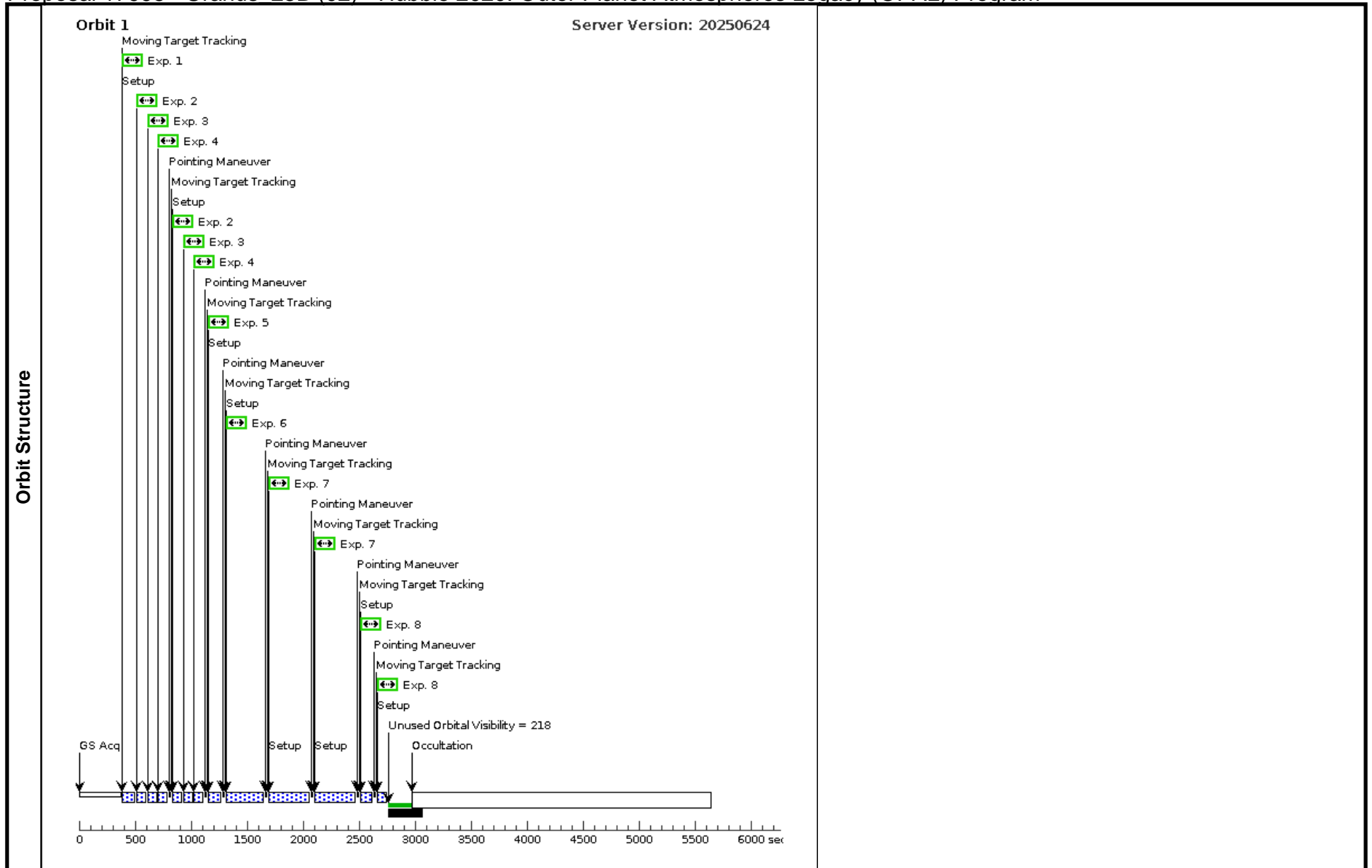
Proposal 17995 - Uranus_25B (02) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:51 GMT 2025

| | | | | | | | |
|--|--|--|--|------------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Uranus_25B (02), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F845M (02.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (02.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (02.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (02.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (02.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (02.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (02.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (FQ727N_quadD (02.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (02.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F845M (02.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Uranus_25B (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (2-4), (8) | | | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (7) | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (3) | URANUS-MAPS | STD=URANUS | | | | EARTH |
| Comments: Description=Global Uranus maps | | | | | | | |

Proposal 17995 - Uranus 25B (02) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|---|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25B (02) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25B (02) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25B (02) (2) | 25 Secs (50 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.2; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_25B (02) (3) | 200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25B (02) Pattern 2, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_25B (02) (2) | 35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



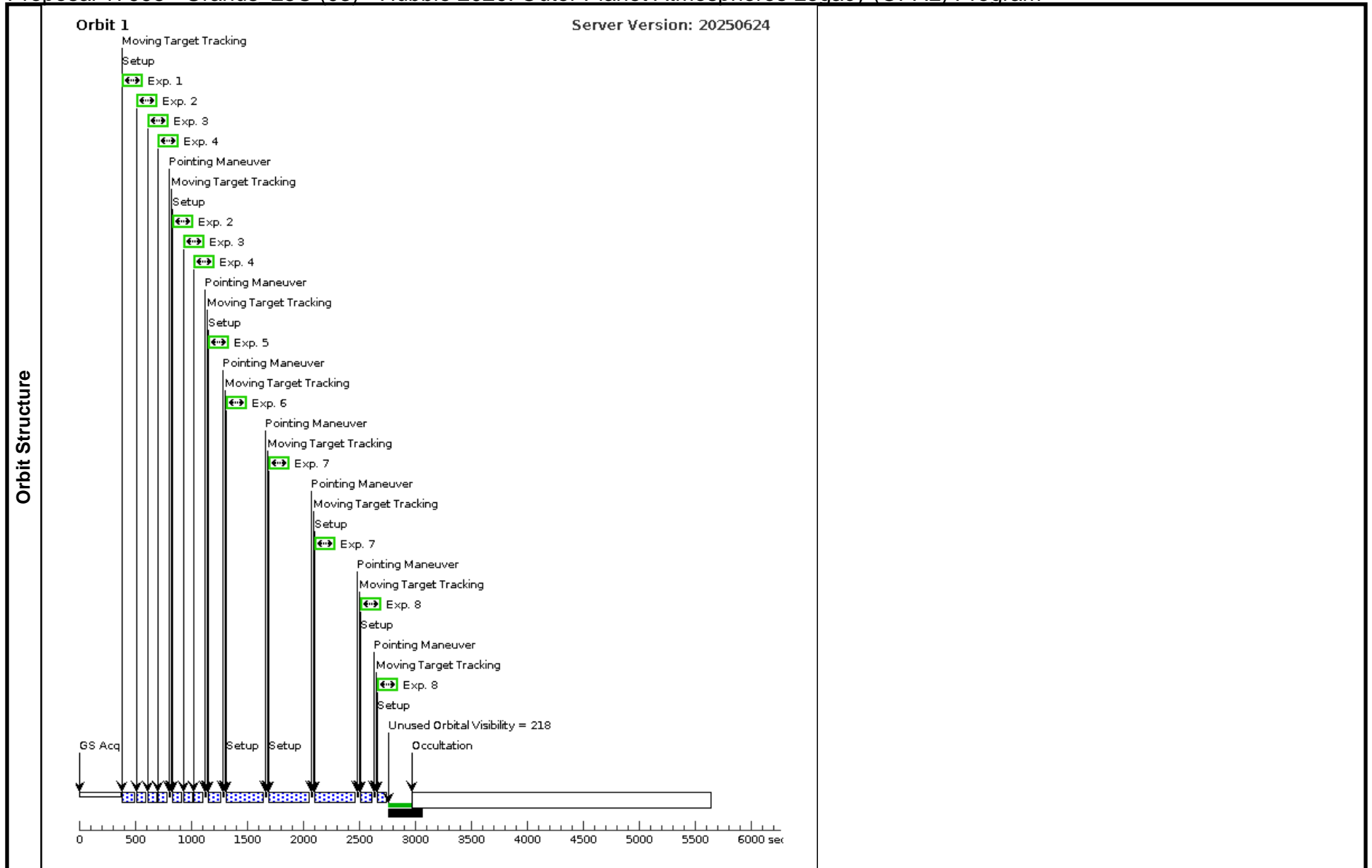
Proposal 17995 - Uranus_25C (03) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:51 GMT 2025

| | | | | | | | | |
|--|--|---|--|--|----------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Uranus_25C (03), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 02 BY 1.9 Orbits TO 2.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F845M (03.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (03.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (03.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (03.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (03.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (03.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (03.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ727N_quadD (03.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (03.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (03.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Uranus_25C (03)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | | | | Exposures |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (2-4), (8) |
| | | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (7) |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (3) | URANUS-MAPS | STD=URANUS | | | | EARTH |
| Comments: Description=Global Uranus maps | | | | | | | | |

Proposal 17995 - Uranus 25C (03) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|---|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25C (03) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25C (03) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25C (03) (2) | 25 Secs (50 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.2; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_25C (03) (3) | 200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25C (03) Pattern 2, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_25C (03) (2) | 35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



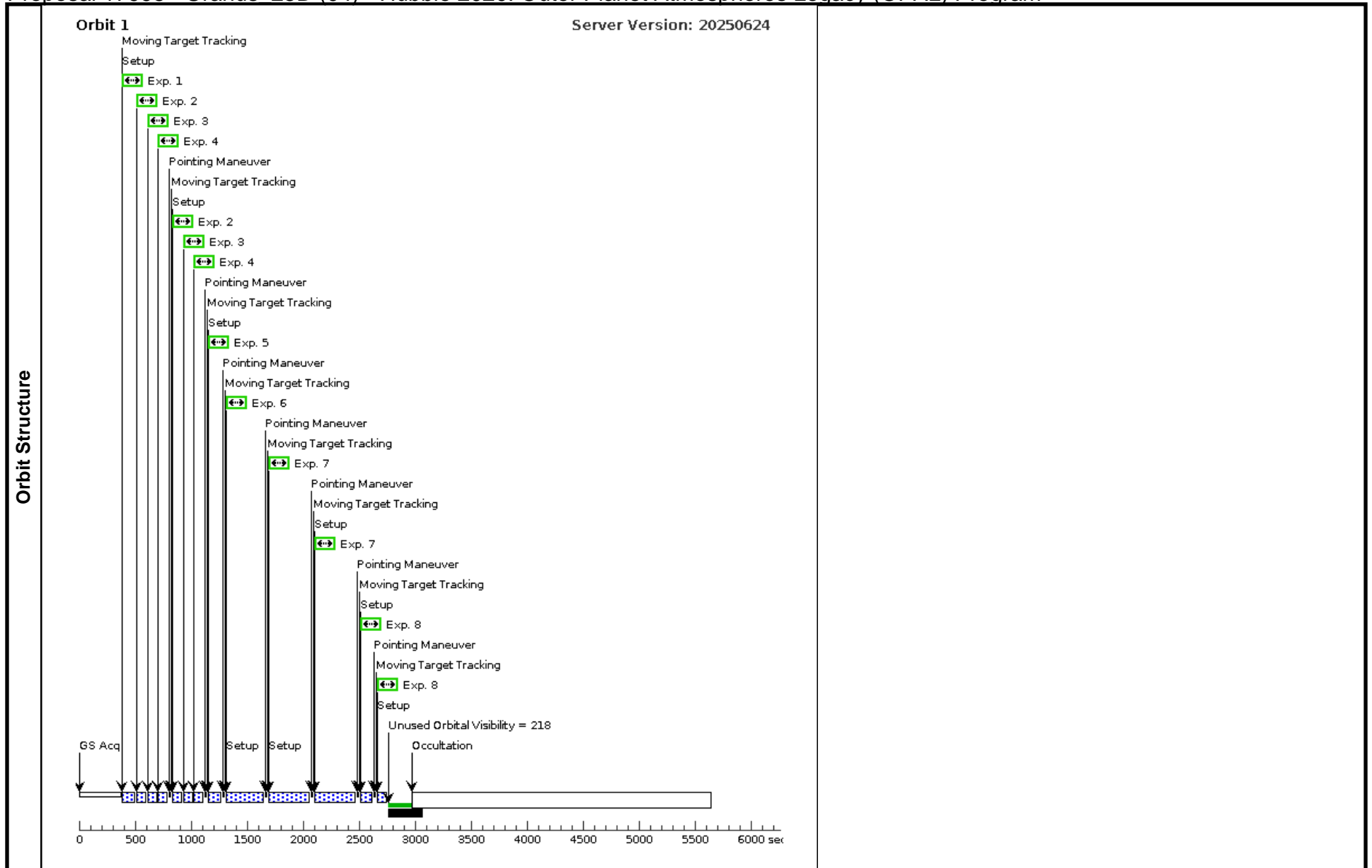
Proposal 17995 - Uranus_25D (04) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | | |
|--|--|---|--|--------------------------|------------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Uranus_25D (04), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 03 BY 1.9 Orbits TO 2.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F845M (04.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (04.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (04.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (04.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (04.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (04.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (04.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ727N_quadD (04.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (04.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (04.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Uranus_25D (04)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (2-4), (8) | | | |
| | | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (7) | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (3) | URANUS-MAPS | STD=URANUS | | | | EARTH |
| Comments: Description=Global Uranus maps | | | | | | | | |

Proposal 17995 - Uranus 25D (04) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|------------------------|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25D (04) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25D (04) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25D (04) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25D (04) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25D (04) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25D (04) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25D (04) (2) | 25 Secs (50 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25D (04) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24 | Sequence 1-8 Non-Int in Uranus_25D (04) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.20 | Sequence 1-8 Non-Int in Uranus_25D (04) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_25D (04) (3) | 200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25D (04) Pattern 2, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_25D (04) (2) | 35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



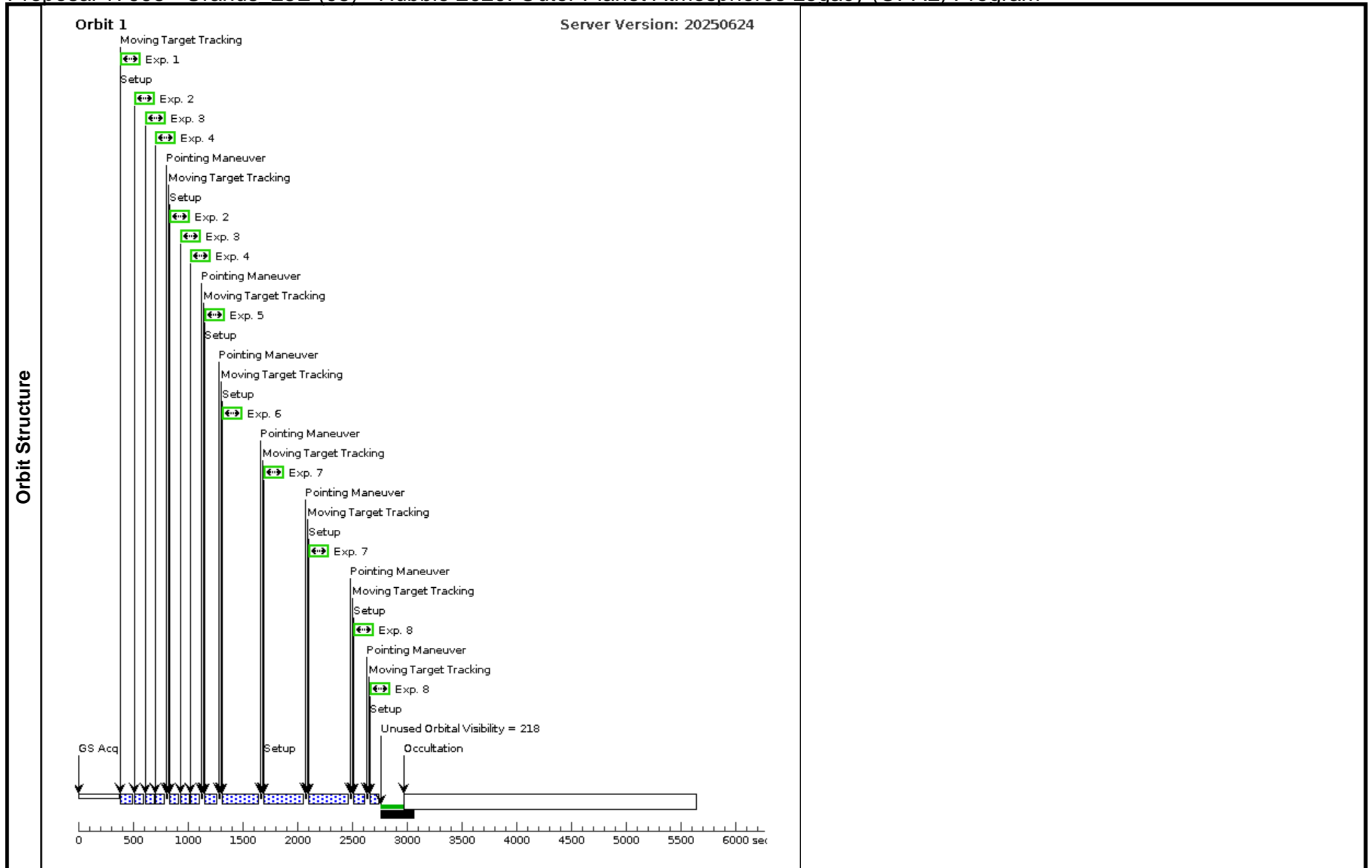
Proposal 17995 - Uranus_25E (05) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | |
|--|--|--|--------------------------|------------------|----------------|---------------|---------------------|
| Visit | <p>Proposal 17995, Uranus_25E (05), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 04 BY 2.9 Orbits TO 8.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> | | | | | | |
| Diagnostics | <p>(F845M (05.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (05.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (05.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (05.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (05.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (05.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (05.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ727N_quadD (05.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (05.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F845M (05.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Uranus_25E (05)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (2-4), (8) | | | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (7) | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| (3) | URANUS-MAPS | STD=URANUS | | | | EARTH | |
| <p><i>Comments: Description=Global Uranus maps</i></p> | | | | | | | |

Proposal 17995 - Uranus 25E (05) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|------------------------|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25E (05) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25E (05) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25E (05) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25E (05) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25E (05) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25E (05) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25E (05) (2) | 25 Secs (50 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25E (05) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24 | Sequence 1-8 Non-Int in Uranus_25E (05) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.20 | Sequence 1-8 Non-Int in Uranus_25E (05) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_25E (05) (3) | 200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25E (05) Pattern 2, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_25E (05) (2) | 35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



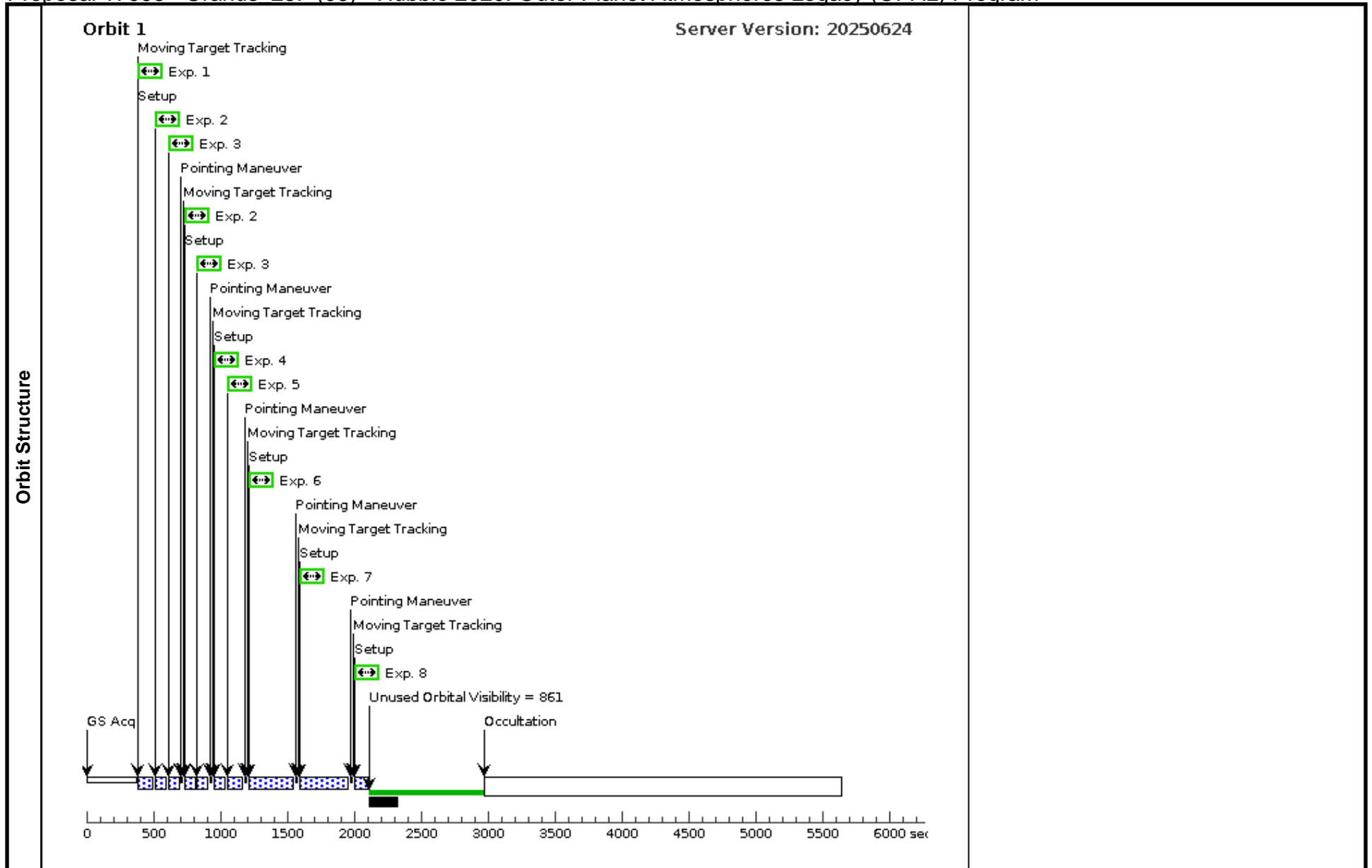
Proposal 17995 - Uranus 25F (06) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | |
|--|--|--|--|--------------------------|----------------|------------------|---------------------|
| Visit | Proposal 17995, Uranus_25F (06), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 05 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F845M (06.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (06.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (06.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (06.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (06.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (06.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (06.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (FQ727N_quadD (06.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (06.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F845M (06.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Uranus_25F (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | | Secondary Pattern | | Exposures | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (2-3) | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (3) | URANUS-MAPS | STD=URANUS | | | | EARTH |
| Comments: Description=Global Uranus maps | | | | | | | |

Proposal 17995 - Uranus 25F (06) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|---|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) Pattern 2, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_25F (06) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) Pattern 2, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_25F (06) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) | 25 Secs (25 Secs) [==>] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.2; SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) | 200 Secs (200 Secs) [==>] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | SAA CONTOUR 02 | Sequence 1-8 Non-Int in Uranus_25F (06) | 35 Secs (35 Secs) [==>] | [1] |



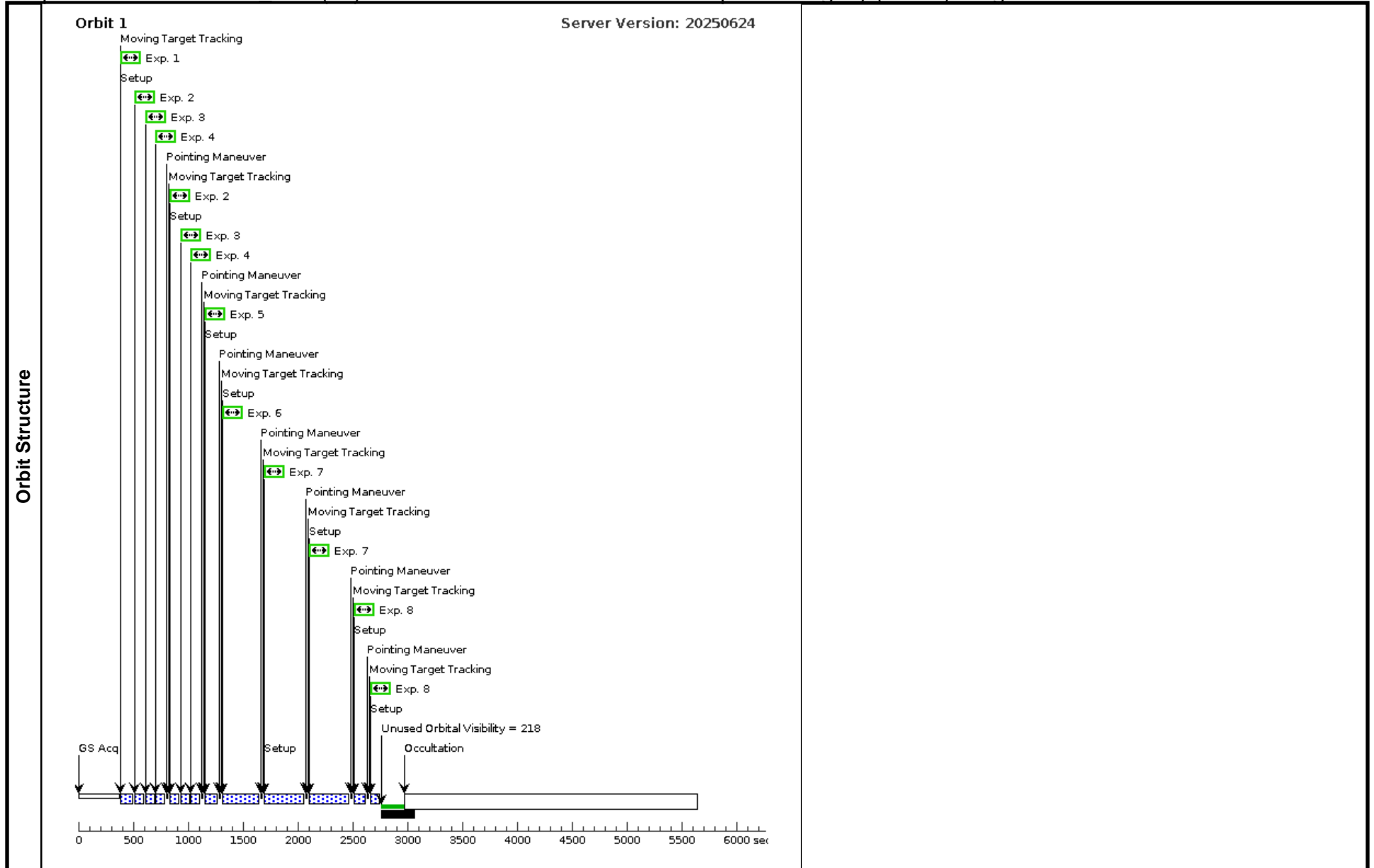
Proposal 17995 - Uranus 25G (07) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | | |
|--|--|---|--|--|----------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Uranus_25G (07), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 06 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F845M (07.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (07.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (07.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (07.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (07.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (07.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (07.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ727N_quadD (07.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (07.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (07.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Uranus_25G (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | | | | Exposures |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (2-4), (8) |
| | | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (7) |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (3) | URANUS-MAPS | STD=URANUS | | | | EARTH |
| Comments: Description=Global Uranus maps | | | | | | | | |

Proposal 17995 - Uranus 25G (07) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|------------------------|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25G (07) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25G (07) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25G (07) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25G (07) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25G (07) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25G (07) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25G (07) (2) | 25 Secs (50 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25G (07) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24 | Sequence 1-8 Non-Int in Uranus_25G (07) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.2 | Sequence 1-8 Non-Int in Uranus_25G (07) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_25G (07) (3) | 200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25G (07) Pattern 2, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_25G (07) (2) | 35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



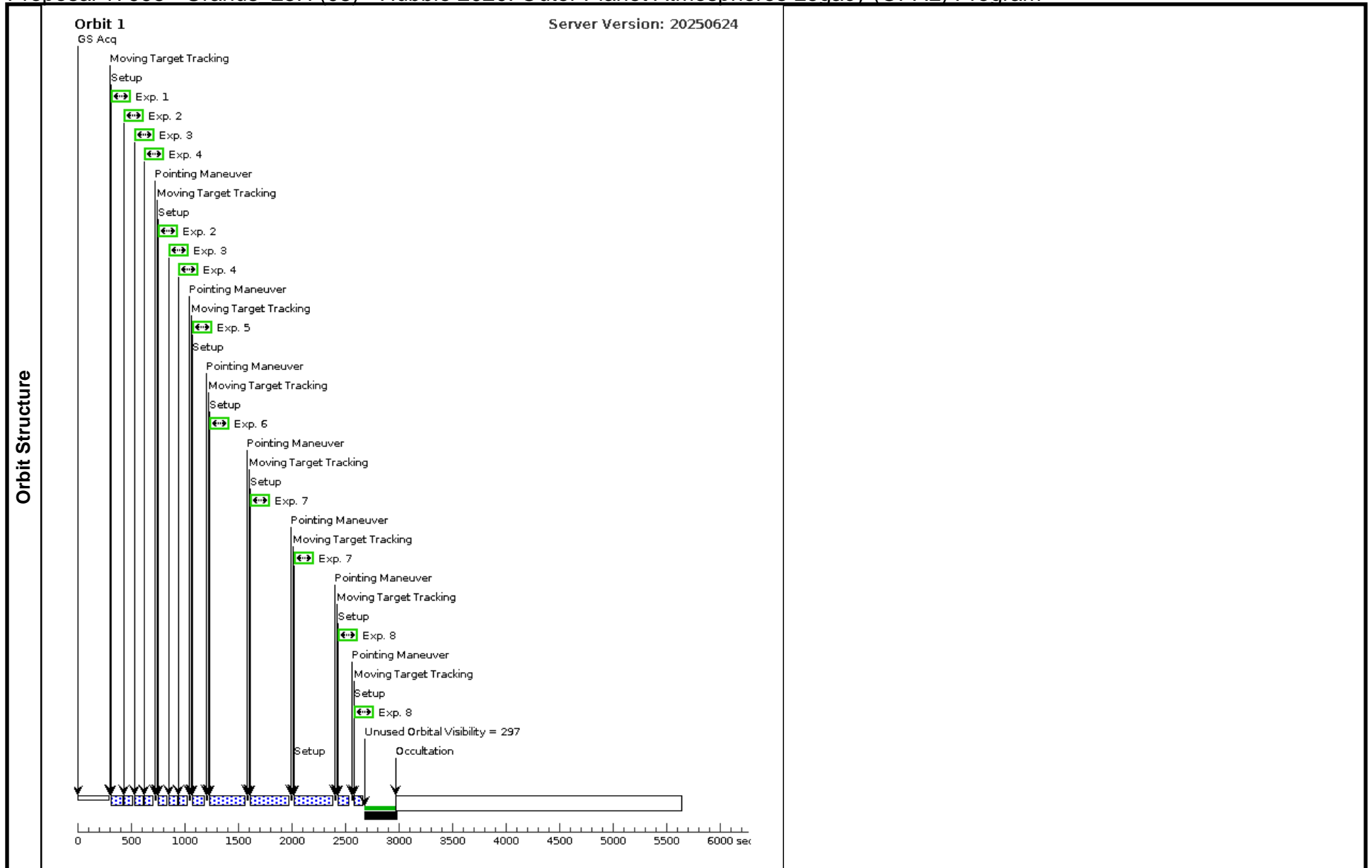
Proposal 17995 - Uranus 25H (08) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | | |
|-----------------------------|--|---|--|--|----------------|--------------------------|---------------|---------------------|
| Visit | Proposal 17995, Uranus_25H (08), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 07 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F845M (08.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (08.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (08.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (08.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (08.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (08.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ727N_quadD (08.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (08.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F845M (08.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Uranus_25H (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | | Primary Pattern | | Secondary Pattern | | Exposures |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (2-4), (8) | |
| | | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (7) | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (3) | URANUS-MAPS | STD=URANUS | | | | EARTH |
| | | Comments: Description=Global Uranus maps | | | | | | |

Proposal 17995 - Uranus 25H (08) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|-----------------|-----------------------------------|---------------|--------------|-------------------------|---|---|-------|
| | 1 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | GS ACQ SCENARIO ONEB1OR | Sequence 1-8 Non-Int in Uranus_25H (08) | 35 Secs (35 Secs) [==>] | [1] |
| | 2 | F467M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25H (08) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25H (08) (2) | 14 Secs (28 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F547M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25H (08) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25H (08) (2) | 6 Secs (12 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F763M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25H (08) Pattern 2, Exps 2-4 in Sequence 1-8 Non-Int in Uranus_25H (08) (2) | 25 Secs (50 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F657N | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25H (08) | 40 Secs (40 Secs) [==>] | [1] |
| | 6 | FQ619N_quadA | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +21.36,-25.24 | Sequence 1-8 Non-Int in Uranus_25H (08) | 144 Secs (144 Secs) [==>] | [1] |
| | 7 | FQ727N_quadD | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -26.52,+30.20 | Sequence 1-8 Non-Int in Uranus_25H (08) Pattern 3, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_25H (08) (3) | 200 Secs (400 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F845M | (3) URANUS-MAPS | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-8 Non-Int in Uranus_25H (08) Pattern 2, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_25H (08) (2) | 35 Secs (70 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



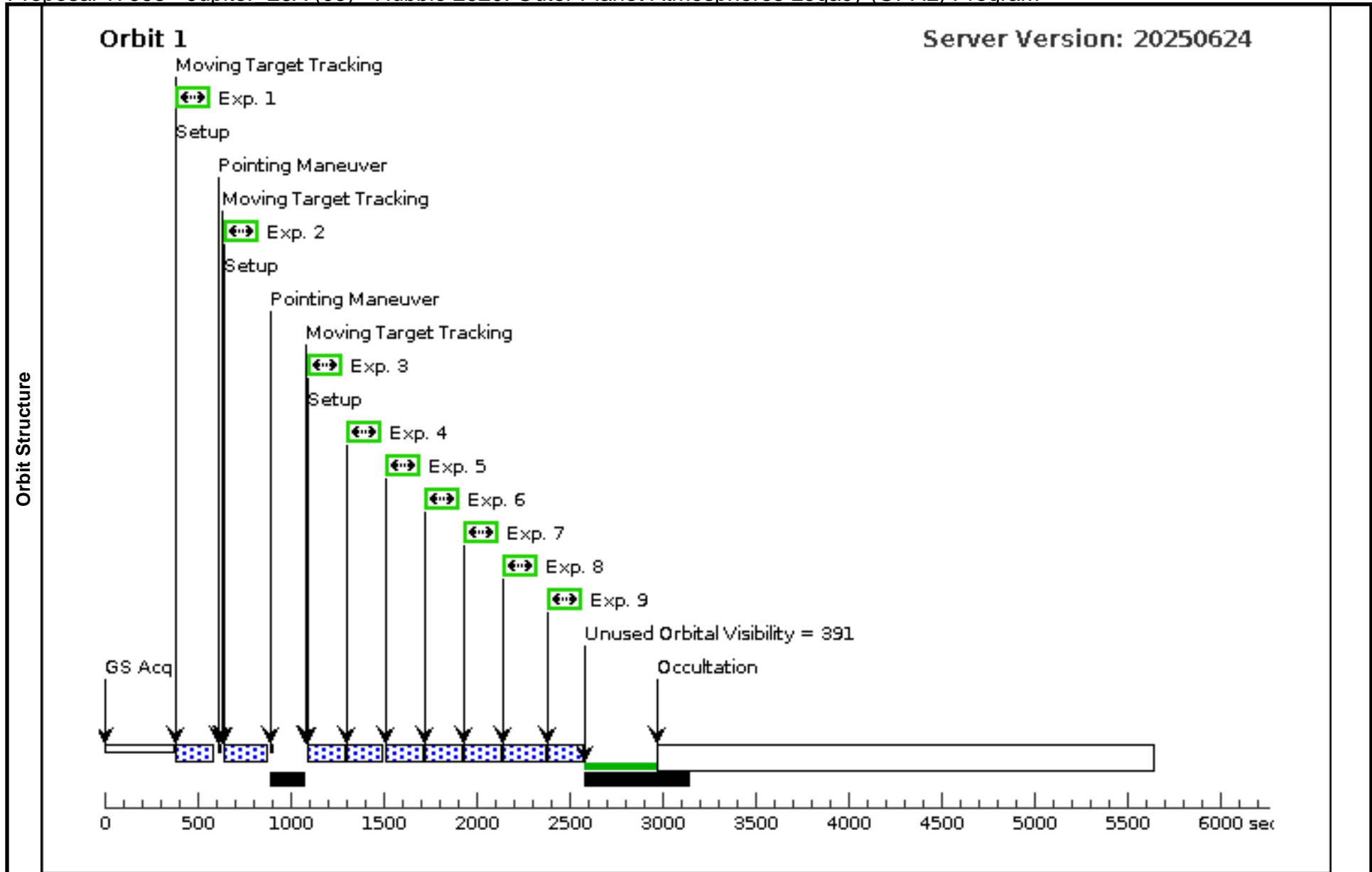
Proposal 17995 - Jupiter 26A (09) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | | |
|---|--|--|--------------|-------------|---------|---------|---------|--|
| Visit | <p>Proposal 17995, Jupiter_26A (09), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 17-DEC-2026 AND 10-MAR-2027; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: 13 orbits, should be contiguous, if possible. A gap of 1 or 2 orbits between F/G or G/H (i.e., between visits 14/15 or 15/16) is acceptable. Impingement into SAA is OK if the above timing gaps cannot prevent it.</i></p> <p><i>Jupiter opposition (2027-FEB-10) +/- 30 days preferred).</i></p> <p><i>We can accept +/- 40 days to account for 21 unschedulable days near opposition (HST temperature rule would be exceeded by Jupiter series because target is > 168 deg from the Sun), and earlier dates due to limited FOR</i></p> <p>TRIMMING RULES</p> <p><i>These are suggested actions to trim time from orbits that have reduced visibility, gyro bias, etc. Please try these in order:</i></p> <ol style="list-style-type: none"> <i>1. Swap exposure 1 and 2 (put 889 first, then 631). Can be done on a visit-by-visit basis as needed.</i> <i>2. Cut exposure 9 (F631N). Can be done on a visit-by-visit basis as needed.</i> <i>3. Delete F343N or F275W. Can be done on a visit-by-visit basis as needed, but, choose the same one to cut in visits 9 to 14/15, and the other one for cutting in visits 15/16 to 21. The idea is to try to have at least one Jupiter rotation with full coverage in each filter.</i> <i>4. Delete F467M or F658N. Can be done on a visit-by-visit basis as needed, but, choose the same one to cut in visits 9 to 14/15, and the other one for cutting in visits 15/16 to 21. The idea is to try to have at least one Jupiter rotation with full coverage in each filter.</i> | | | | | | | |
| | Diagnostics | <p>(Jupiter_26A (09)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(F631N (09.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889_quadA (09.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889_quadA (09.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F502N (09.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F395N (09.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (09.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F658N (09.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F343N (09.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F275W (09.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F631N (09.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Jupiter_26A (09)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> | | | | | | |
| | | Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window |
| (1) | | | JUPITER-MAPS | STD=JUPITER | | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D |
| <p><i>Comments: Description=Global Jupiter maps</i></p> | | | | | | | | |

Proposal 17995 - Jupiter 26A (09) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

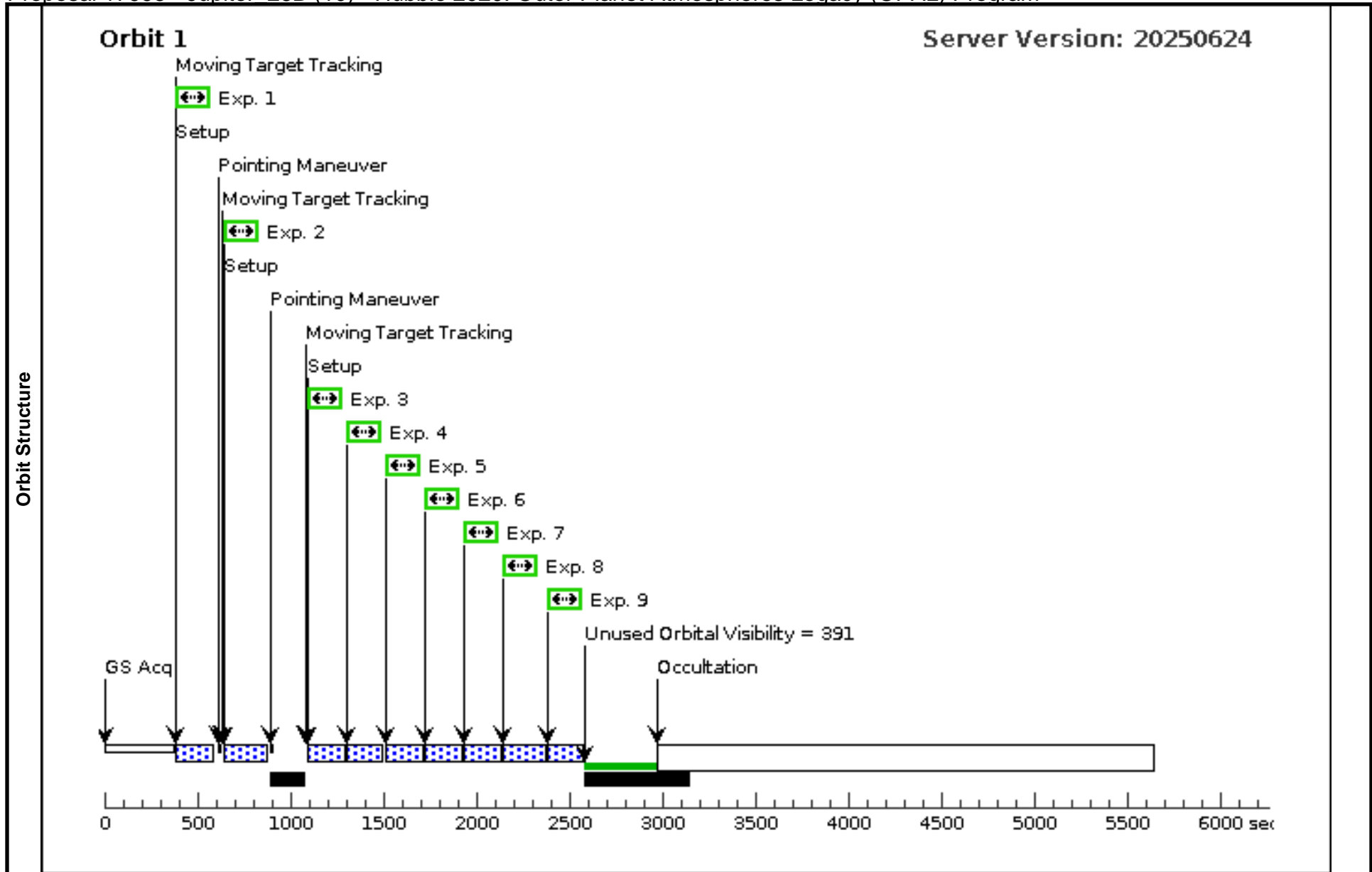
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-------------|------------------|----------------------------------|---------------|-------------------------|----------------------|--|---------------------------------|-------|
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quada | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26A (09) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F343N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 6 Secs (6 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26A (09) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26B (10) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

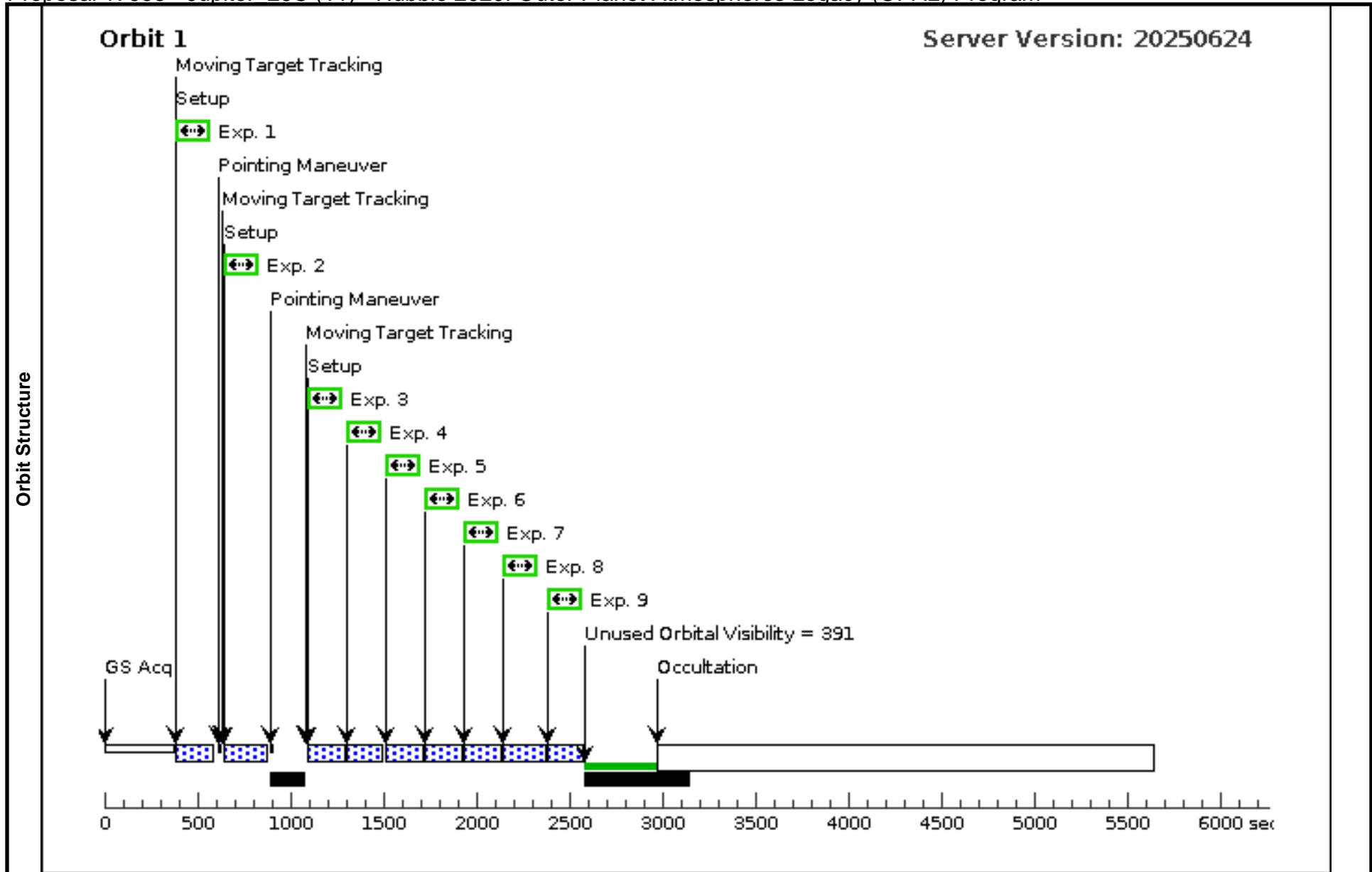
| | | | | | | | | | | |
|--|--|--------------|------------------|----------------------------------|----------------------|--|----------------------|--|--|--------------|
| Visit | Proposal 17995, Jupiter_26B (10), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 09 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
| | Diagnosics (Jupiter_26B (10)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (10.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (10.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (10.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (10.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (10.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (10.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (10.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (10.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (10.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (10.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26B (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26B (10) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F343N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 6 Secs (6 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26B (10) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26C (11) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

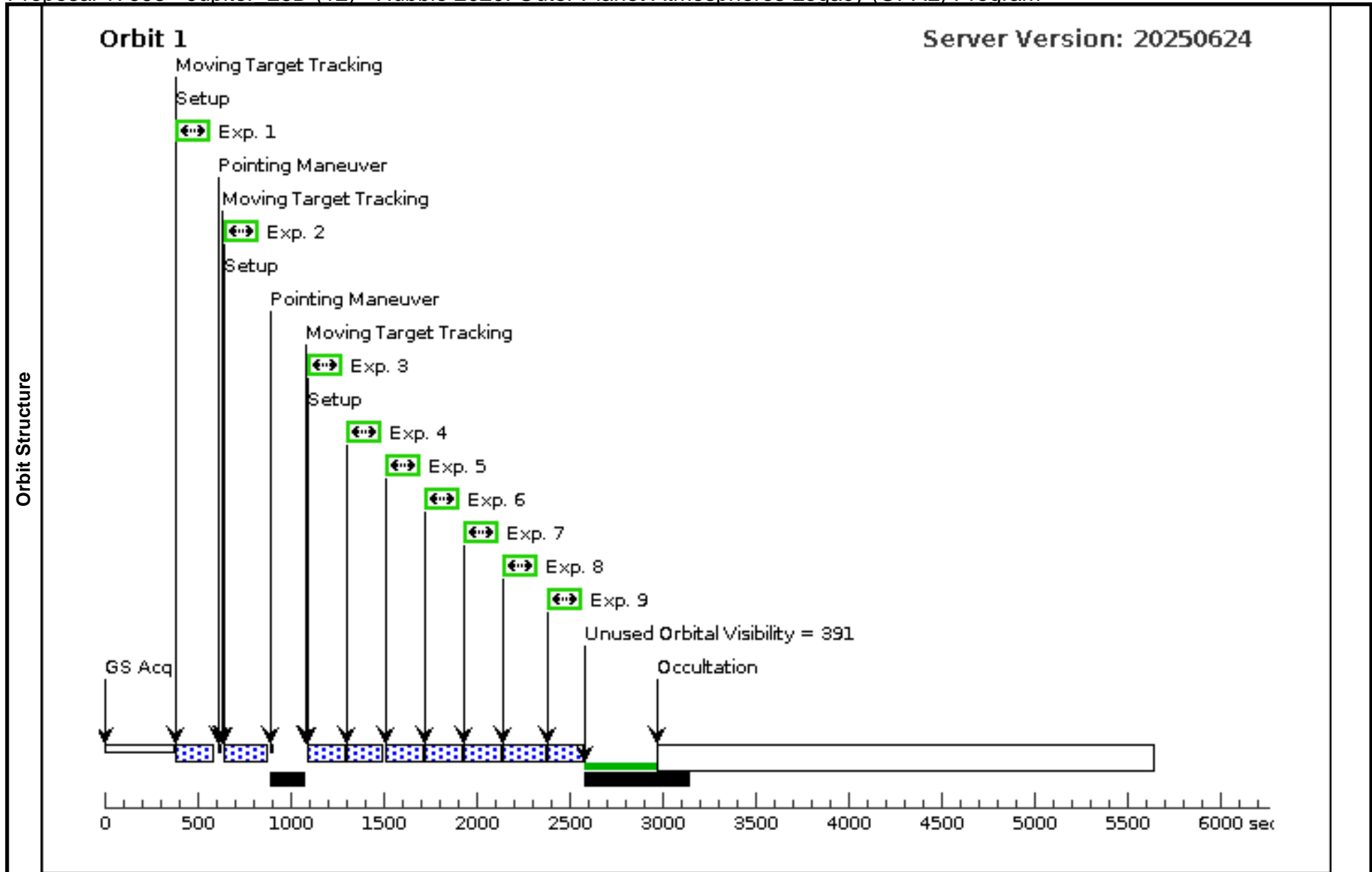
| | | | | | | | | | | |
|--|--|--------------|------------------|----------------------------------|----------------------|--|----------------------|--|--|--------------|
| Visit | Proposal 17995, Jupiter_26C (11), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 10 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
| | Diagnosics (Jupiter_26C (11)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (11.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (11.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (11.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (11.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (11.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (11.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (11.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (11.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (11.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (11.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26C (11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-.53 | Sequence 1-9 Non-Int in Jupiter_26C (11) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F343N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 6 Secs (6 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26C (11) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26D (12) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

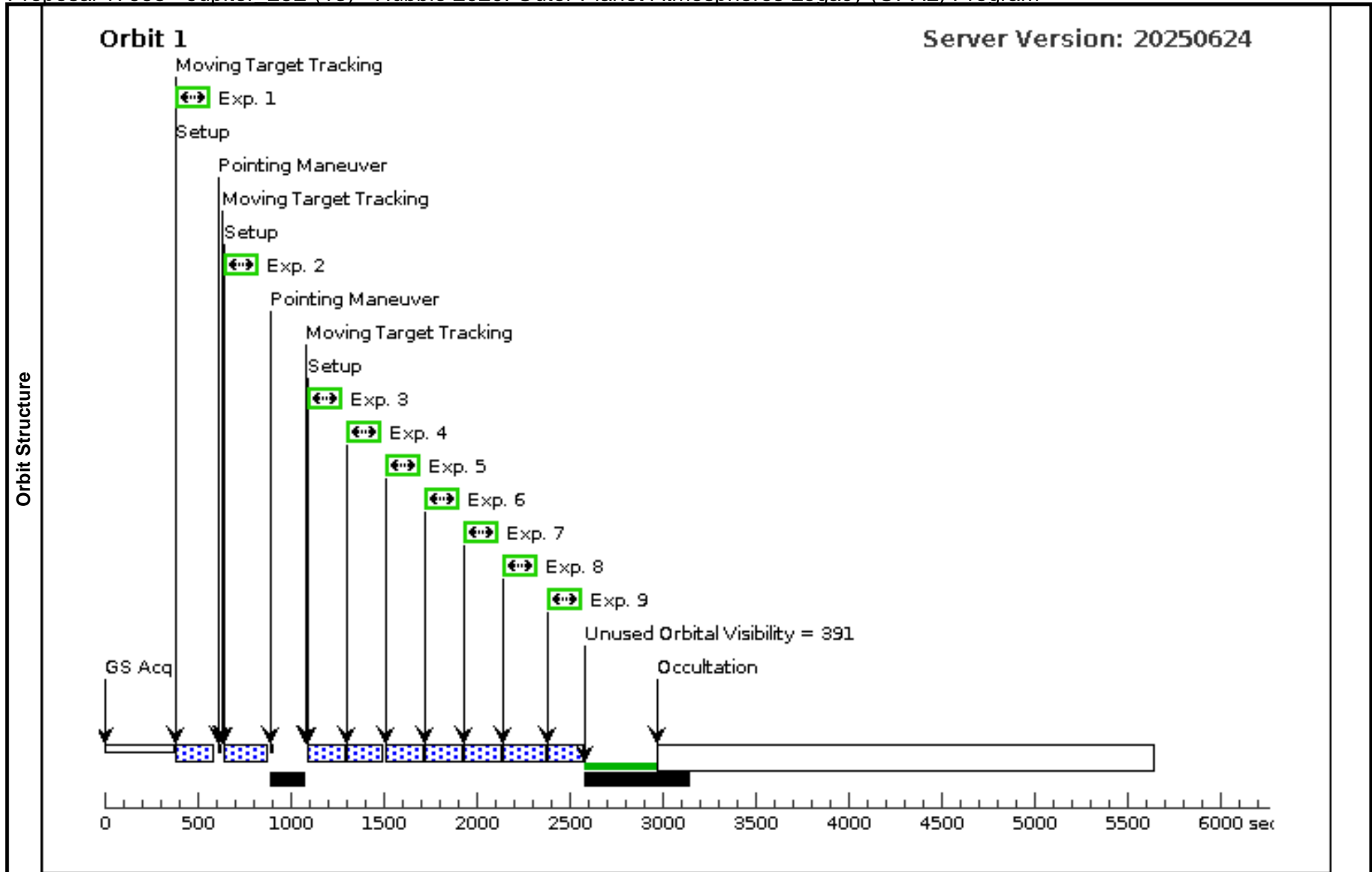
| | | | | | | | | | | |
|--|--|--------------|------------------|----------------------------------|----------------------|--|----------------------|--|--|--------------|
| Visit | Proposal 17995, Jupiter_26D (12), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 11 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
| | Diagnosics (Jupiter_26D (12)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (12.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (12.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (12.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (12.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (12.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (12.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (12.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (12.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (12.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (12.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26D (12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26D (12) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F343N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 6 Secs (6 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26D (12) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26E (13) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

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| | | | | | | | | | | |
|--|--|--------------|------------------|----------------------------------|----------------------|--|----------------------|--|--|--------------|
| Visit | Proposal 17995, Jupiter_26E (13), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 12 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
| | Diagnosics (Jupiter_26E (13)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (13.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (13.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (13.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (13.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (13.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (13.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (13.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (13.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (13.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (13.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26E (13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26E (13) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F343N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 6 Secs (6 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26E (13) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26F (14) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

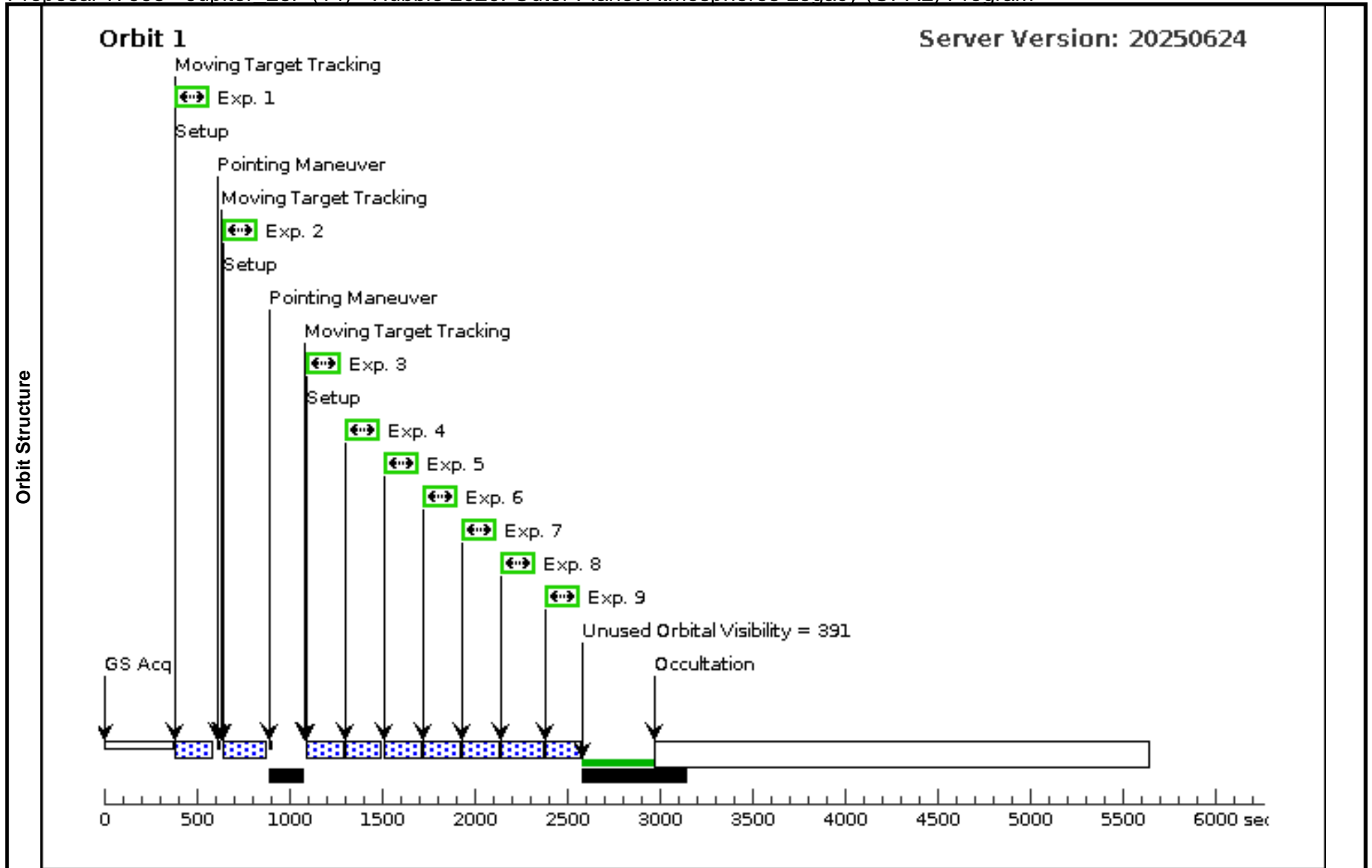
Mon Oct 06 16:00:52 GMT 2025

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| Visit | Proposal 17995, Jupiter_26F (14), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 13 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET |
|--------------|--|

| | |
|--|--|
| Diagnostics | (Jupiter_26F (14)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED |
| | (F631N (14.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (FQ889_quadA (14.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (FQ889_quadA (14.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. |
| | (F502N (14.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F395N (14.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F467M (14.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F658N (14.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F343N (14.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F275W (14.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| (F631N (14.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser | |
| (Jupiter_26F (14)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | |

| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
|--|-----|--------------|-------------|---------|---------|--------|--|
| | (1) | JUPITER-MAPS | STD=JUPITER | | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | |

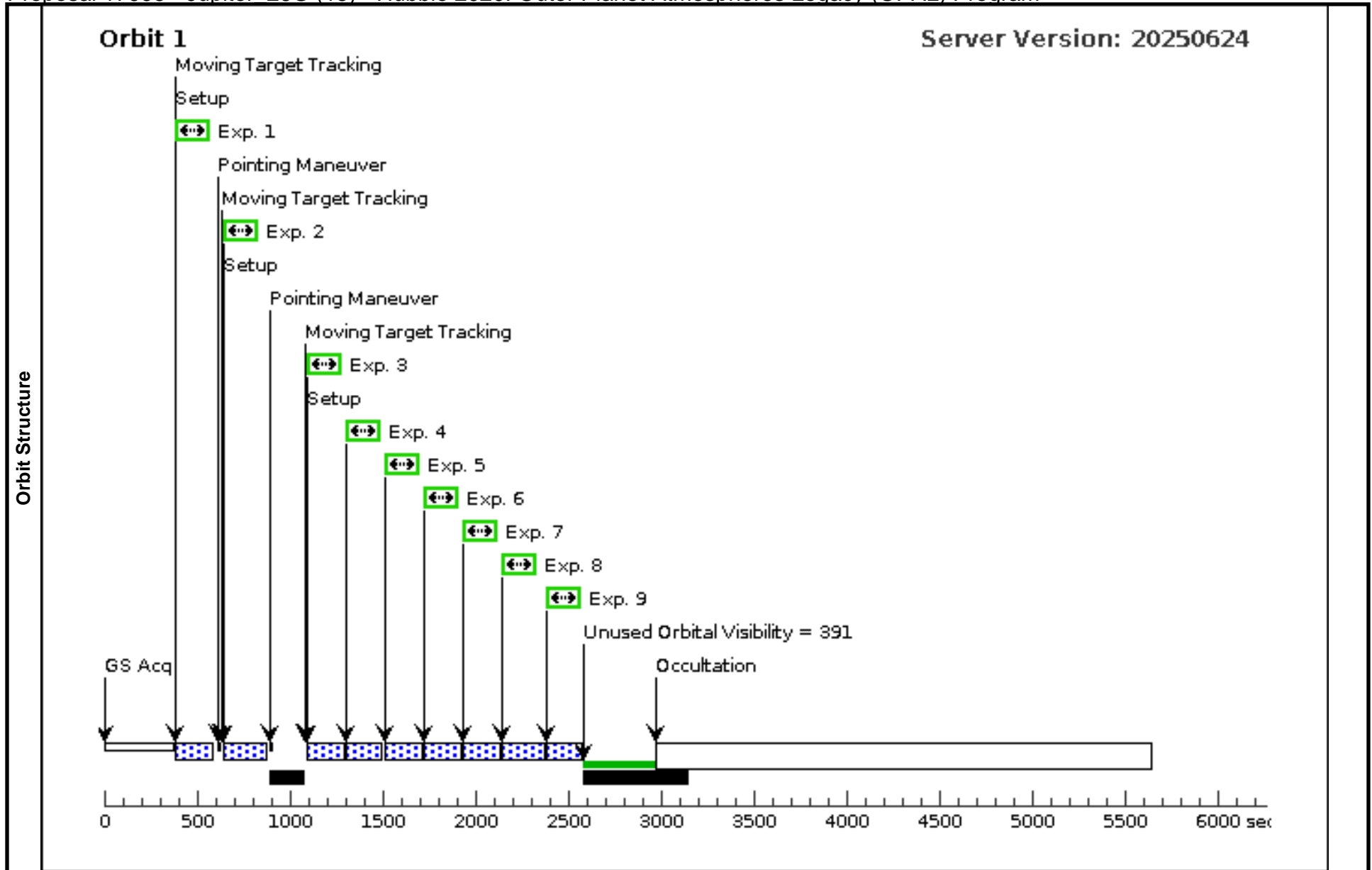
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------|----------------------------------|---------------|-------------------------|---------------------|--|---------------------------------|-------|
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-.53 | Sequence 1-9 Non-Int in Jupiter_26F (14) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F343N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 6 Secs (6 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26F (14) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26G (15) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

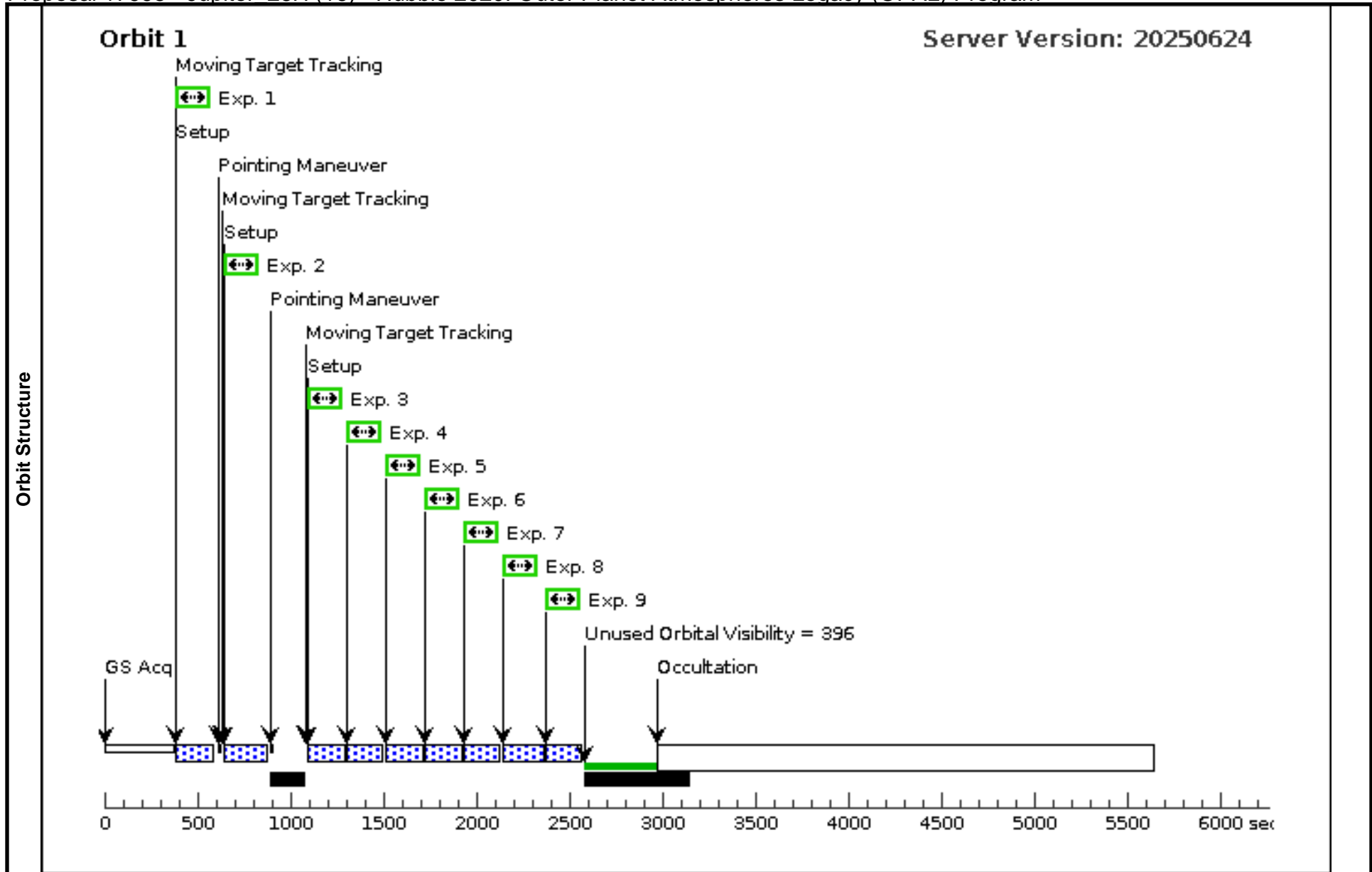
| | | | | | | | | | | |
|--|--|--------------|------------------|----------------------------------|----------------------|--|----------------------|--|--|--------------|
| Visit | Proposal 17995, Jupiter_26G (15), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 14 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
| | Diagnosics (Jupiter_26G (15)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (15.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (15.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (15.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (15.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (15.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (15.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (15.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (15.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (15.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (15.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26G (15)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26G (15) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F343N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 6 Secs (6 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26G (15) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26H (16) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

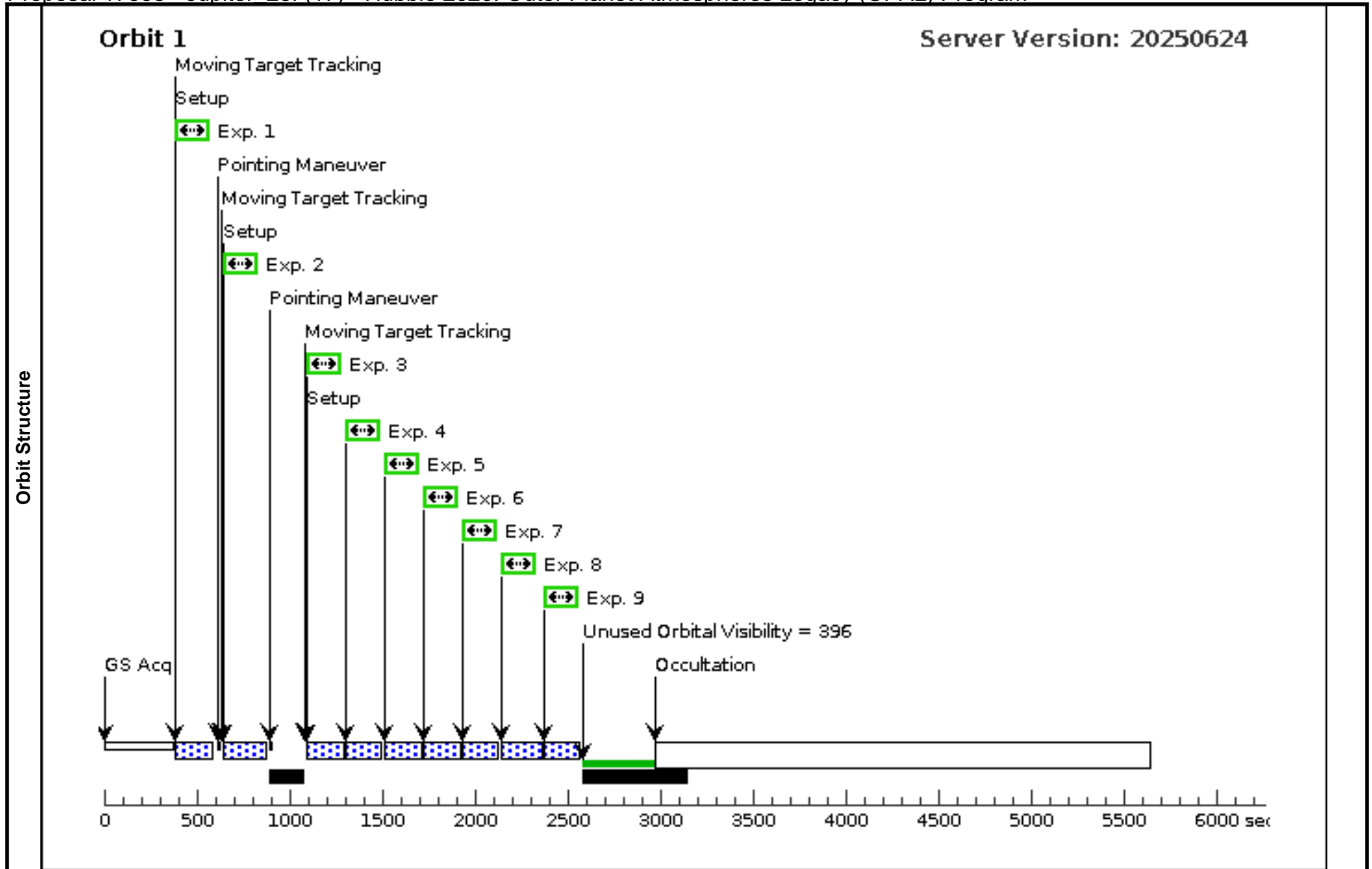
| Visit | Proposal 17995, Jupiter_26H (16), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 15 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|------------------|----------------------------------|----------------------------------|--|-------------------------|--|--|---------------------------------|-------|---|-------|---------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------------|---|-------|--|----------------------------------|-------|-------------------------|--|--|--------------------------|-----|---|-------------|------------------|---------------------------------|--------|-------------|----------------------|--|----------------------------|-----|---|-------|------------------|----------------------------------|-------|-------------------------|--|--|--------------------------|-----|---|-------|------------------|----------------------------------|-------|-------------|--|--|----------------------------|-----|---|-------|------------------|----------------------------------|-------|-------------------------|--|--|------------------------------|-----|---|-------|------------------|----------------------------------|-------|-------------|--|--|--------------------------|-----|---|-------|------------------|----------------------------------|-------|-------------|--|--|-----------------------------|-----|---|-------|------------------|----------------------------------|-------|-------------|--|--|----------------------------|-----|---|-------|------------------|----------------------------------|-------|-------------------------|--|--|--------------------------|-----|
| | Diagnosics (Jupiter_26H (16)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (16.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (16.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (16.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (16.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (16.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (16.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (16.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (16.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (16.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (16.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26H (16)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>JUPITER-MAPS</td> <td>STD=JUPITER</td> <td></td> <td></td> <td>NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D</td> <td>EARTH</td> </tr> </tbody> </table> Comments: Description=Global Jupiter maps | | | | | | | | | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Exposures | <table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F631N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F631N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>4 Secs (4 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>FQ889_quadA</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ889N</td> <td>CR-SPLIT=NO</td> <td>POS TARG +2.82,-3.53</td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>45 Secs (45 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>F502N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F502N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>3 Secs (3 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>F395N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F395N</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>10 Secs (10 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>F467M</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F467M</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>1.2 Secs (1.2 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>F658N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F658N</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>8 Secs (8 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td>F547M</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F547M</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>.5 Secs (0.5 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>8</td> <td>F275W</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F275W</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>30 Secs (30 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>9</td> <td>F631N</td> <td>(1) JUPITER-MAPS</td> <td>WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB</td> <td>F631N</td> <td>CR-SPLIT=NO; BLADE=A</td> <td></td> <td>Sequence 1-9 Non-Int in Jupiter_26H (16)</td> <td>4 Secs (4 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table> | | | | | | | | | | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 4 Secs (4 Secs) [==>] | [1] | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26H (16) | 45 Secs (45 Secs) [==>] | [1] | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 3 Secs (3 Secs) [==>] | [1] | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 10 Secs (10 Secs) [==>] | [1] | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 1.2 Secs (1.2 Secs) [==>] | [1] | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 8 Secs (8 Secs) [==>] | [1] | 7 | F547M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F547M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | .5 Secs (0.5 Secs) [==>] | [1] | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 30 Secs (30 Secs) [==>] | [1] | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 4 Secs (4 Secs) [==>] | [1] |
| | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 4 Secs (4 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26H (16) | 45 Secs (45 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 3 Secs (3 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 10 Secs (10 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 1.2 Secs (1.2 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 8 Secs (8 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | F547M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F547M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | .5 Secs (0.5 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 30 Secs (30 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26H (16) | 4 Secs (4 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Proposal 17995 - Jupiter 26I (17) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

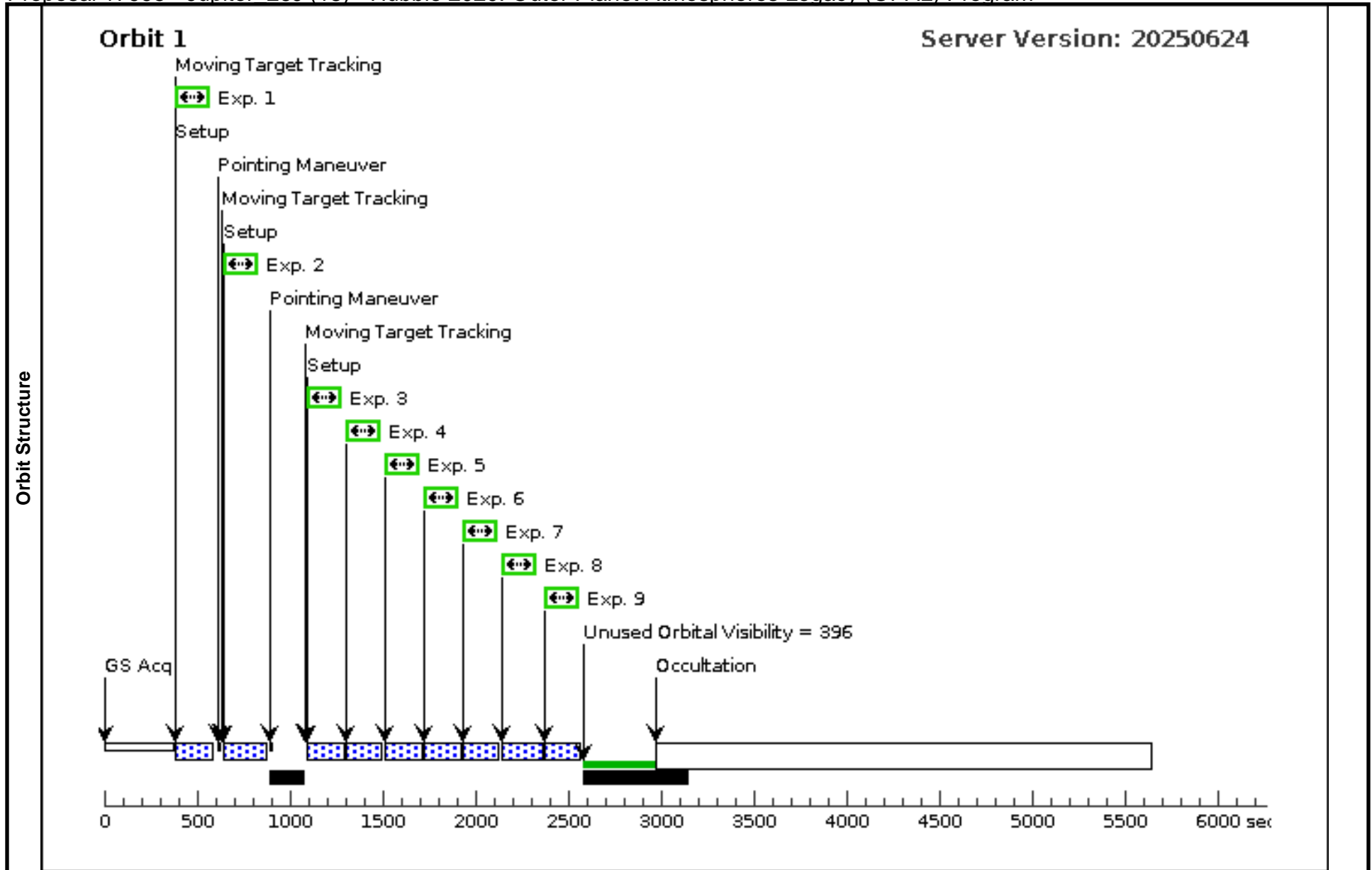
| | | | | | | | | | | |
|--|--|--------------|------------------|----------------------------------|---------------|--|---------------------|--|---------------------------------|-------|
| Visit | Proposal 17995, Jupiter_26I (17), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 16 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
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| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26I (17) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-.53 | Sequence 1-9 Non-Int in Jupiter_26I (17) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26I (17) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26I (17) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26I (17) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26I (17) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F547M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F547M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26I (17) | .5 Secs (0.5 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26I (17) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26I (17) | 4 Secs (4 Secs) [==>] | [1] |



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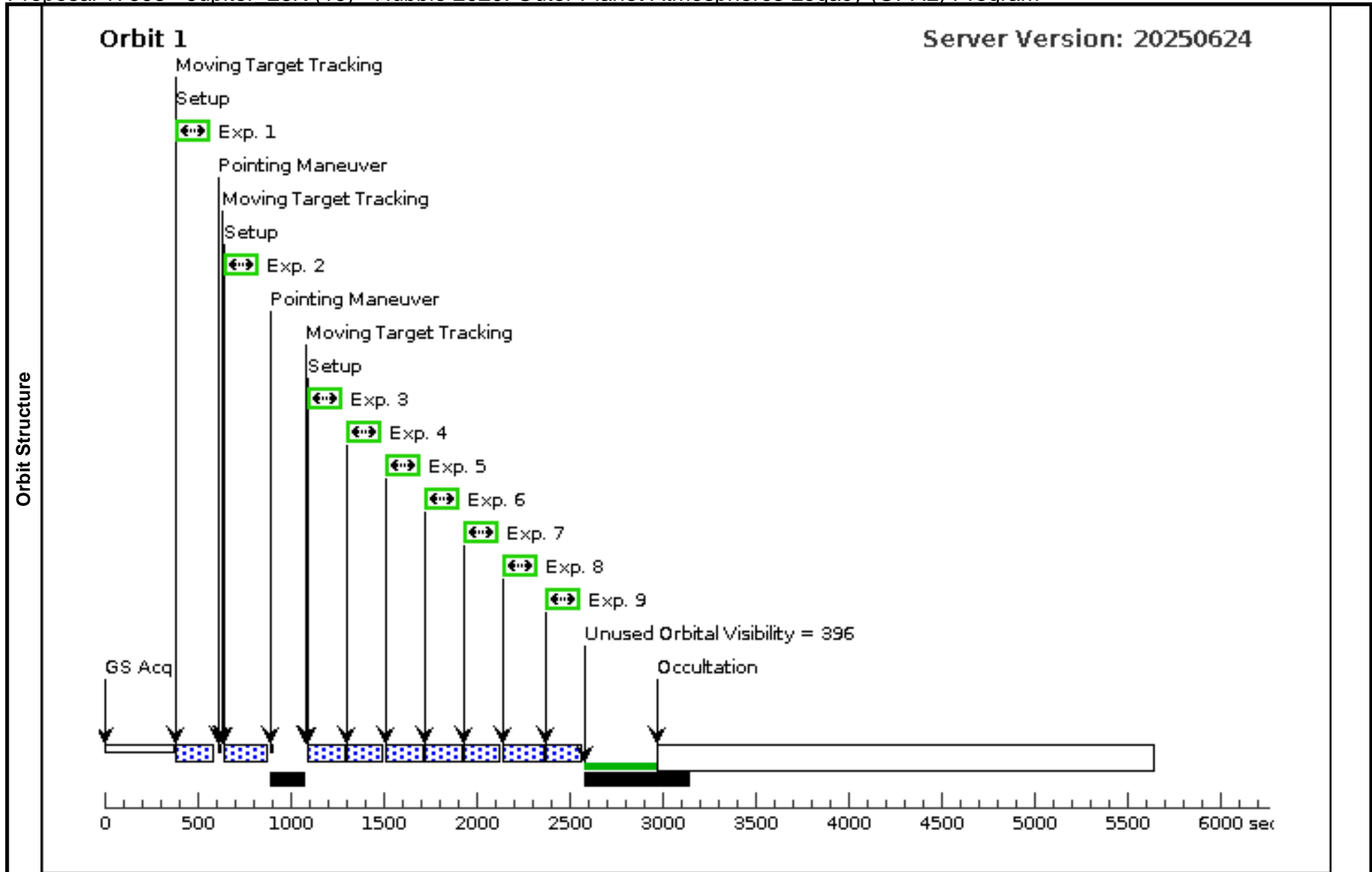
| | | | | | | | | | | |
|--|--|--------------|------------------|----------------------------------|----------------------|--|----------------------|--|--|--------------|
| Visit | Proposal 17995, Jupiter_26J (18), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 17 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
| | Diagnosics (Jupiter_26J (18)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (18.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (18.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (18.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (18.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (18.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (18.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (18.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (18.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (18.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (18.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26J (18)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26J (18) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26J (18) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26J (18) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26J (18) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26J (18) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26J (18) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F547M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F547M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26J (18) | .5 Secs (0.5 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26J (18) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26J (18) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26K (19) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

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|--|--|--------------|------------------|----------------------------------|----------------------|--|----------------------|--|--|--------------|
| Visit | Proposal 17995, Jupiter_26K (19), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 18 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | | | |
| | Diagnosics (Jupiter_26K (19)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (F631N (19.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (19.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (19.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F502N (19.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N (19.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (19.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (19.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (19.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (19.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (19.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Jupiter_26K (19)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
| | (1) | JUPITER-MAPS | STD=JUPITER | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D | EARTH | | | |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26K (19) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-.53 | Sequence 1-9 Non-Int in Jupiter_26K (19) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26K (19) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26K (19) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26K (19) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26K (19) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F547M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F547M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26K (19) | .5 Secs (0.5 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26K (19) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26K (19) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26L (20) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

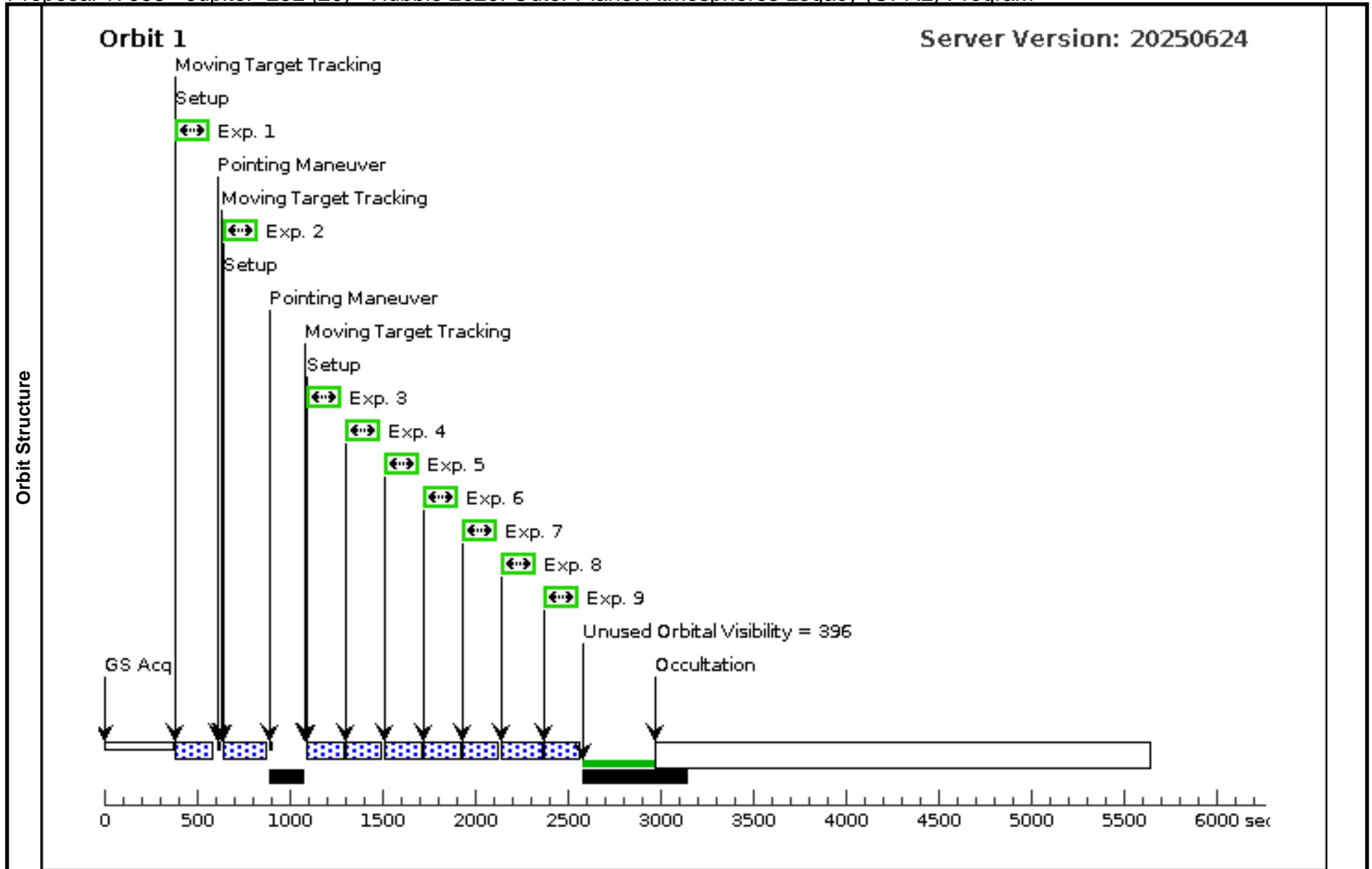
Mon Oct 06 16:00:52 GMT 2025

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| Visit | Proposal 17995, Jupiter_26L (20), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 19 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET |
|--------------|--|

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|--|--|
| Diagnostics | (Jupiter_26L (20)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED |
| | (F631N (20.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (FQ889_quadA (20.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (FQ889_quadA (20.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. |
| | (F502N (20.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F395N (20.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F467M (20.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F658N (20.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F547M (20.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F275W (20.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| (F631N (20.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser | |
| (Jupiter_26L (20)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | |

| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
|--|-----|--------------|-------------|---------|---------|--------|--|
| | (1) | JUPITER-MAPS | STD=JUPITER | | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------|----------------------------------|---------------|-------------------------|----------------------|--|---------------------------------|-------|
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26L (20) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26L (20) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26L (20) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26L (20) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26L (20) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26L (20) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F547M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F547M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26L (20) | .5 Secs (0.5 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26L (20) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26L (20) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Jupiter 26M (21) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

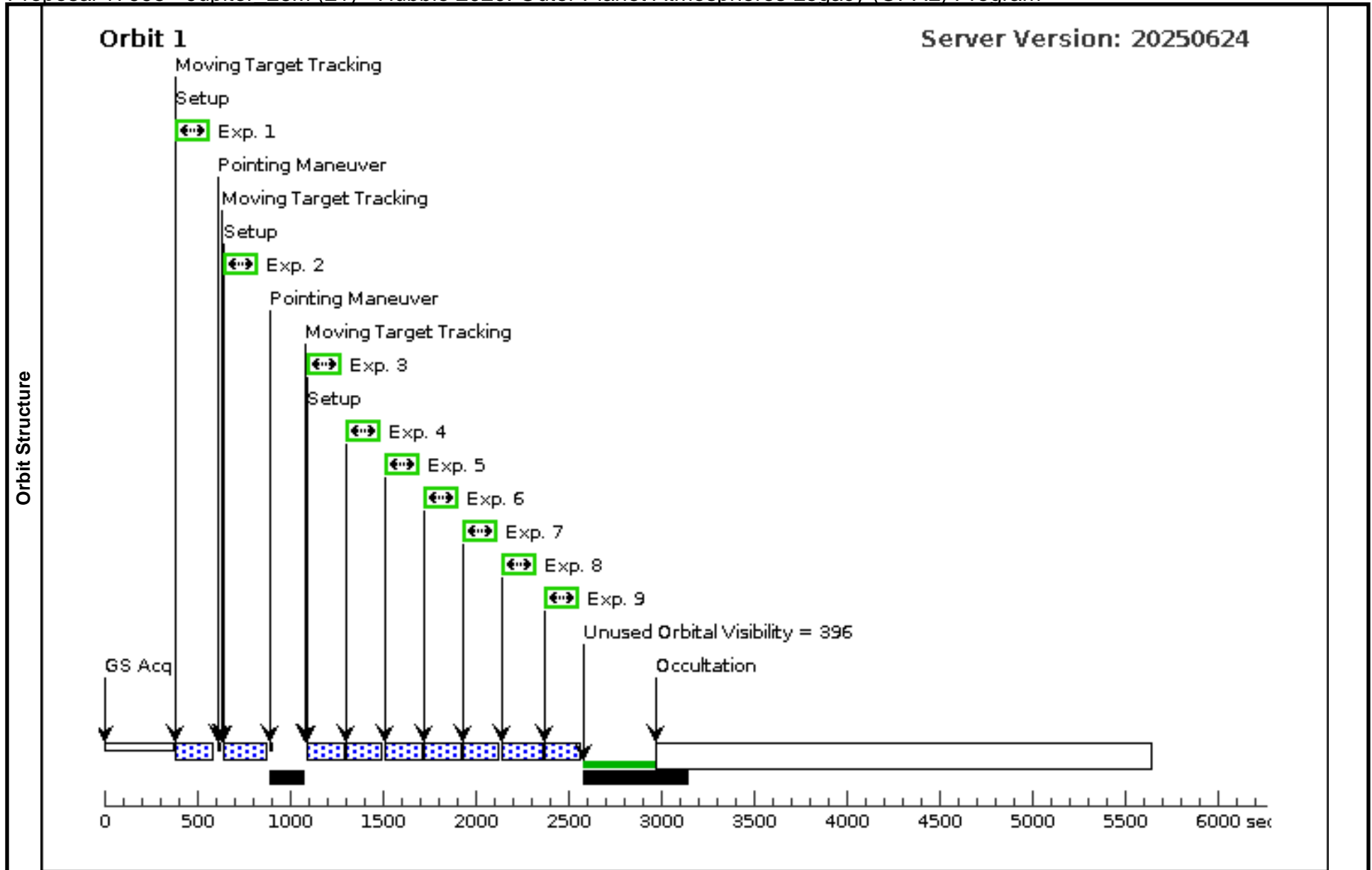
Mon Oct 06 16:00:52 GMT 2025

| | |
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| Visit | Proposal 17995, Jupiter_26M (21), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 20 BY .9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET |
|--------------|--|

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| Diagnostics | (Jupiter_26M (21)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED |
| | (F631N (21.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (FQ889_quadA (21.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (FQ889_quadA (21.002)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. |
| | (F502N (21.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F395N (21.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F467M (21.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F658N (21.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F547M (21.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| | (F275W (21.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
| (F631N (21.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser | |
| (Jupiter_26M (21)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | |

| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
|--|-----|--------------|-------------|---------|---------|--------|--|
| | (1) | JUPITER-MAPS | STD=JUPITER | | | | NOT OCC OF JUPITER BY IO FROM EARTH, NOT OCC OF JUPITER BY EUROPA FROM EARTH, NOT OCC OF JUPITER BY GANYMEDE FROM EARTH, NOT OCC OF JUPITER BY CALLISTO FROM EARTH, SEP OF JUPITER-MAPS SUN FROM EARTH LT 168D |
| <i>Comments: Description=Global Jupiter maps</i> | | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------|----------------------------------|---------------|-------------------------|----------------------|--|---------------------------------|-------|
| | 1 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26M (21) | 4 Secs (4 Secs) [==>] | [1] |
| | 2 | FQ889_quadA | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +2.82,-3.53 | Sequence 1-9 Non-Int in Jupiter_26M (21) | 45 Secs (45 Secs) [==>] | [1] |
| | 3 | F502N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F502N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26M (21) | 3 Secs (3 Secs) [==>] | [1] |
| | 4 | F395N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26M (21) | 10 Secs (10 Secs) [==>] | [1] |
| | 5 | F467M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F467M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26M (21) | 1.2 Secs (1.2 Secs) [==>] | [1] |
| | 6 | F658N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F658N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26M (21) | 8 Secs (8 Secs) [==>] | [1] |
| | 7 | F547M | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F547M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26M (21) | .5 Secs (0.5 Secs) [==>] | [1] |
| | 8 | F275W | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Jupiter_26M (21) | 30 Secs (30 Secs) [==>] | [1] |
| | 9 | F631N | (1) JUPITER-MAPS | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F631N | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Jupiter_26M (21) | 4 Secs (4 Secs) [==>] | [1] |



Proposal 17995 - Neptune 26A (22) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

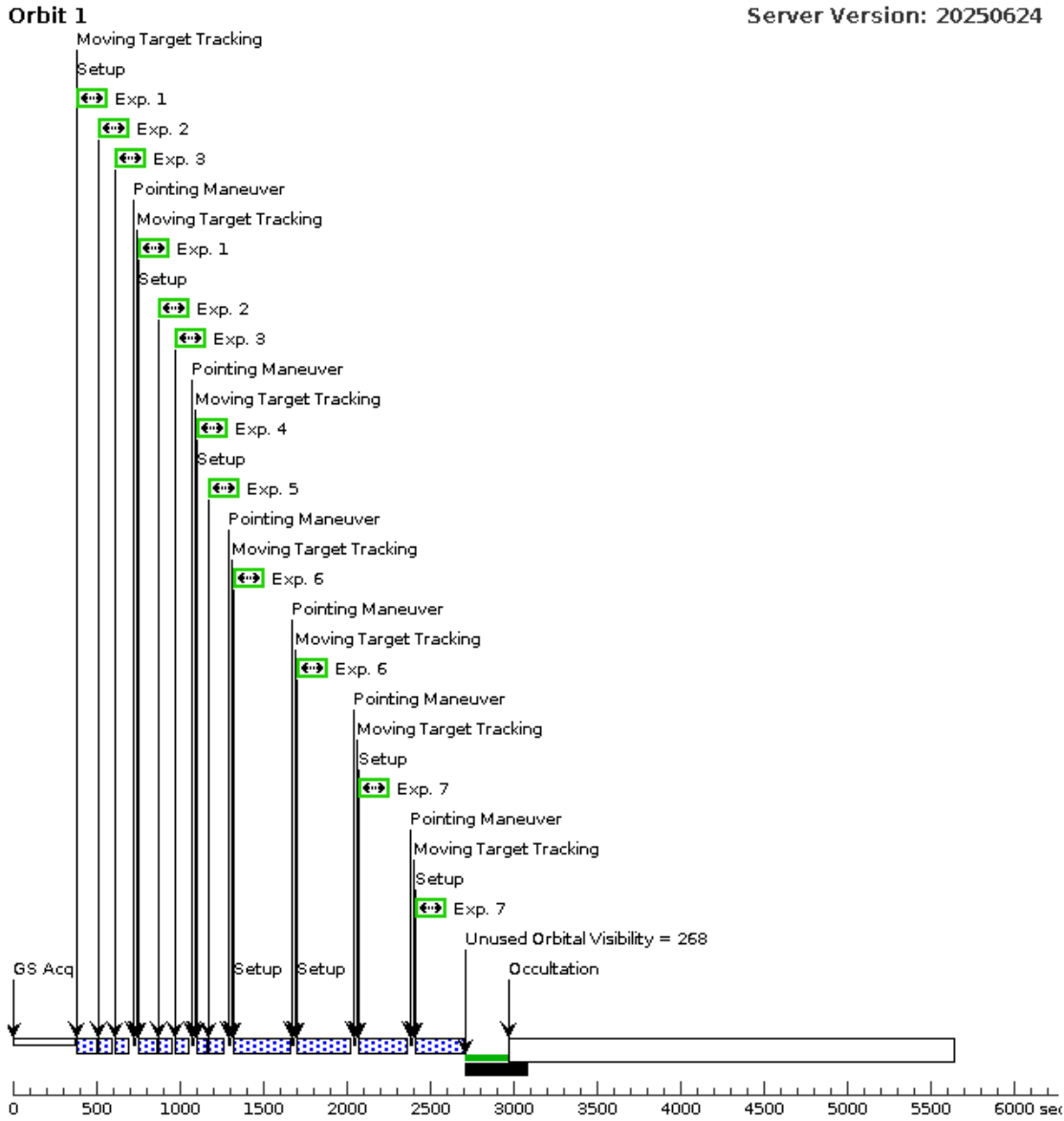
| Visit | <p>Proposal 17995, Neptune_26A (22), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 27-JUL-2026:00:00:00 AND 25-OCT-2026:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: 8 orbits, with 2-orbit gaps between all visits to satisfy observatory thermal constraints when target is > 168 deg from the Sun. A larger separation between orbits D/E (visits 25/26) is OK between Neptune rotations. Impingement into SAA is OK if the above timing gaps cannot prevent it.</i></p> <p><i>Neptune Opposition (2026-SEP-25) +/- 30 days preferred, earlier dates acceptable due to limited FOR</i></p> <p>TRIMMING RULES</p> <p><i>These are suggested actions to trim time from orbits in case of reduced visibility (for Neptune, gyro bias should not be a concern because no orbits are consecutive). Please try these in order:</i></p> <ol style="list-style-type: none"> <i>1. Pull the F763M exposure out of the pattern (i.e., only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>2. Pull the FQ619N exposure out of its pattern and delete the pattern (i.e., only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>3. Pull the FQ727N exposure out of its pattern and delete the pattern (i.e., only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>4. Delete FQ619N entirely. Can be done on a visit-by-visit basis as needed.</i> | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|-------------------|-------------------|-----------|---------|--|--|------------|--------------|--|--|-----|--|-------|--|--|--|--|--|
| | <p>(F845M (22.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (22.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (22.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (22.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (22.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (22.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (22.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant.</p> <p>(FQ619N_quadA (22.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (22.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant.</p> <p>(Neptune_26A (22)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Patterns | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(1-3), (7)</td> </tr> <tr> <td>(3)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(6)</td> </tr> </tbody> </table> | # | Primary Pattern | Secondary Pattern | Exposures | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | | | | | |
| | # | Primary Pattern | Secondary Pattern | Exposures | | | | | | | | | | | | | | | | |
| (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | | | | | | | | | | | | | | | | | |
| (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>NEPTUNE-MAPS</td> <td>STD=NEPTUNE</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Global Neptune Maps</i></p> | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH | | | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | |
| (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Proposal 17995 - Neptune 26A (22) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|------------------|----------------------|--------------------------------------|---------------|--------------|----------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26A (22) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26A (22) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26A (22) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26A (22) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26A (22) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26A (22) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26A (22) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26A (22) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_qu adD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+ 30.97 | Sequence 1-7 Non-Int in Neptune_26A (22) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_26A (22) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_qu adA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,- 26.0 | Sequence 1-7 Non-Int in Neptune_26A (22) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_26A (22) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |

Orbit Structure

Server Version: 20250624



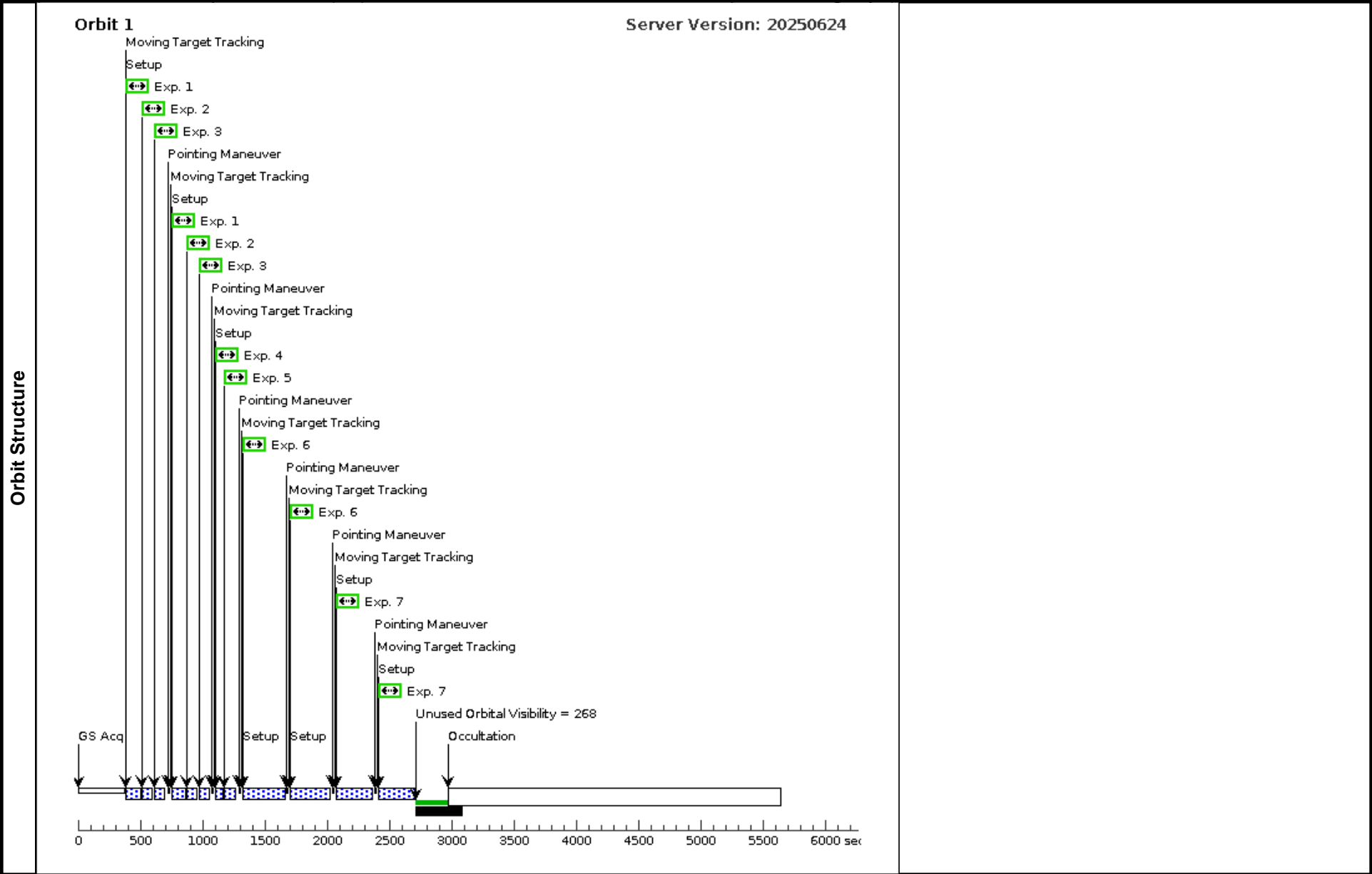
Proposal 17995 - Neptune 26B (23) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | |
|---|---|--|--|------------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Neptune_26B (23), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F845M (23.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (23.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (23.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (23.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (23.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (23.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (23.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ619N_quadA (23.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (23.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Neptune_26B (23)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | | | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH |
| Comments: Description=Global Neptune Maps | | | | | | | |

Proposal 17995 - Neptune 26B (23) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|------------------|----------------------|--------------------------------------|---------------|--------------|----------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26B (23) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26B (23) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26B (23) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26B (23) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26B (23) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26B (23) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26B (23) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26B (23) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_qu adD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+ 30.97 | Sequence 1-7 Non-Int in Neptune_26B (23) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_26B (23) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_qu adA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,- 26.0 | Sequence 1-7 Non-Int in Neptune_26B (23) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_26B (23) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



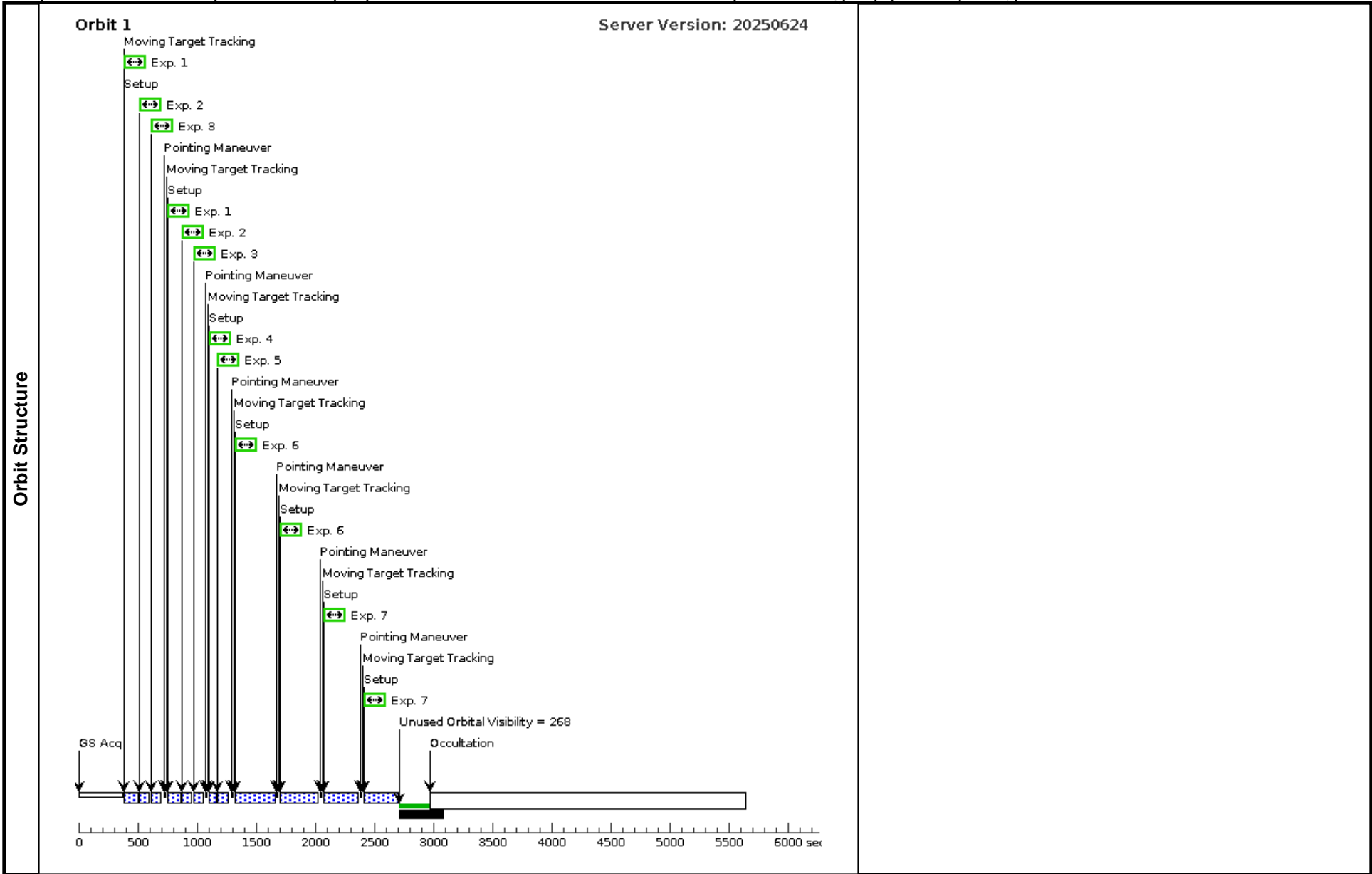
Proposal 17995 - Neptune 25C (24) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | |
|---|---|--|--|------------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Neptune_25C (24), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 23 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F845M (24.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (24.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (24.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (24.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (24.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (24.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (24.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ619N_quadA (24.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (24.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Neptune_25C (24)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | | | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH |
| Comments: Description=Global Neptune Maps | | | | | | | |

Proposal 17995 - Neptune 25C (24) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|------------------|----------------------|--------------------------------------|---------------|--------------|----------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_25C (24) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_25C (24) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_25C (24) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_25C (24) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_25C (24) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_25C (24) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_25C (24) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_25C (24) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_qu adD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+ 30.97 | Sequence 1-7 Non-Int in Neptune_25C (24) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_25C (24) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_qu adA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,- 26.0 | Sequence 1-7 Non-Int in Neptune_25C (24) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_25C (24) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



Proposal 17995 - Neptune 26D (25) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

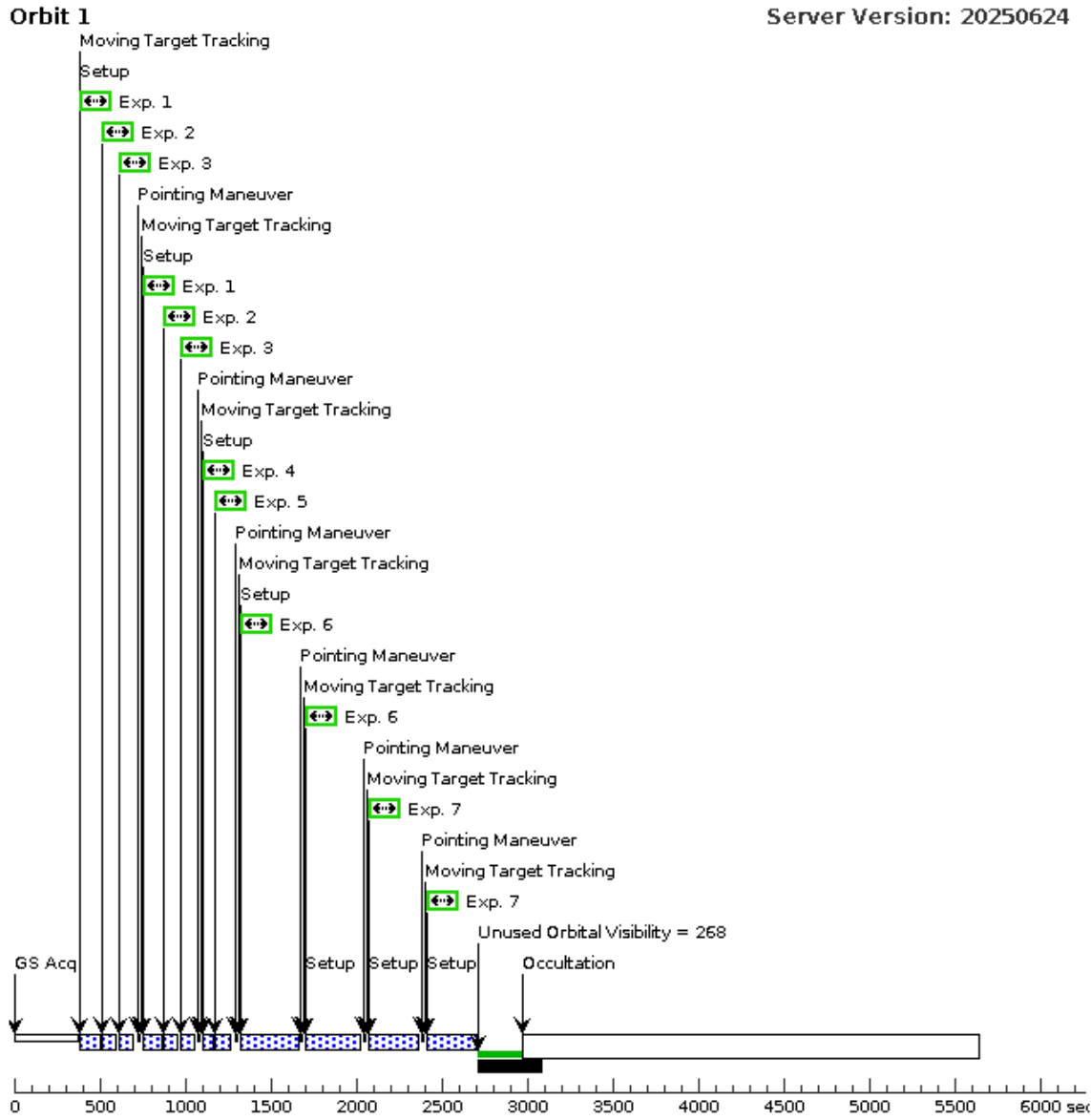
| | | | | | | | |
|---|---|--|--|------------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Neptune_26D (25), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 24 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F845M (25.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (25.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (25.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (25.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (25.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (25.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (25.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ619N_quadA (25.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (25.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Neptune_26D (25)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | | | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH |
| Comments: Description=Global Neptune Maps | | | | | | | |

Proposal 17995 - Neptune 26D (25) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|------------------|----------------------|--------------------------------------|---------------|--------------|----------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26D (25) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26D (25) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26D (25) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26D (25) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26D (25) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26D (25) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26D (25) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26D (25) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_qu adD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+ 30.97 | Sequence 1-7 Non-Int in Neptune_26D (25) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_26D (25) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_qu adA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,- 26.0 | Sequence 1-7 Non-Int in Neptune_26D (25) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_26D (25) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |

Server Version: 20250624

Orbit Structure



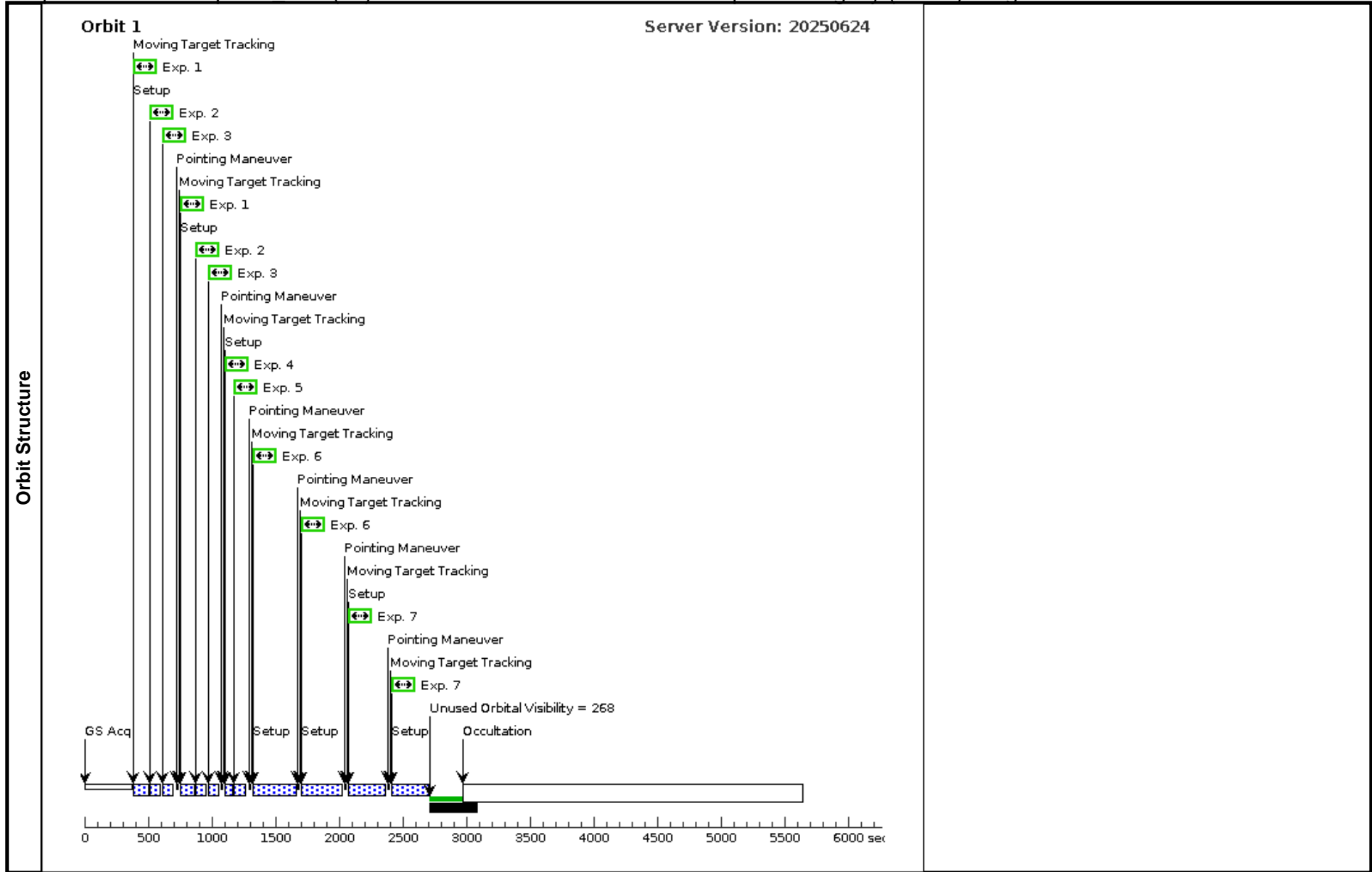
Proposal 17995 - Neptune 26E (26) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | |
|---|---|--|--|----------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Neptune_26E (26), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 25 BY 2.9 Orbits TO 6.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F845M (26.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (26.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (26.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (26.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (26.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (26.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (26.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (FQ619N_quadA (26.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (26.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Neptune_26E (26)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | | | | Exposures |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (1-3), (7) |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (6) |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH |
| Comments: Description=Global Neptune Maps | | | | | | | |

Proposal 17995 - Neptune 26E (26) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|------------------|----------------------|--------------------------------------|---------------|--------------|----------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26E (26) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26E (26) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26E (26) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26E (26) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26E (26) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26E (26) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26E (26) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26E (26) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_qu adD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+ 30.97 | Sequence 1-7 Non-Int in Neptune_26E (26) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_26E (26) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_qu adA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,- 26.0 | Sequence 1-7 Non-Int in Neptune_26E (26) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_26E (26) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



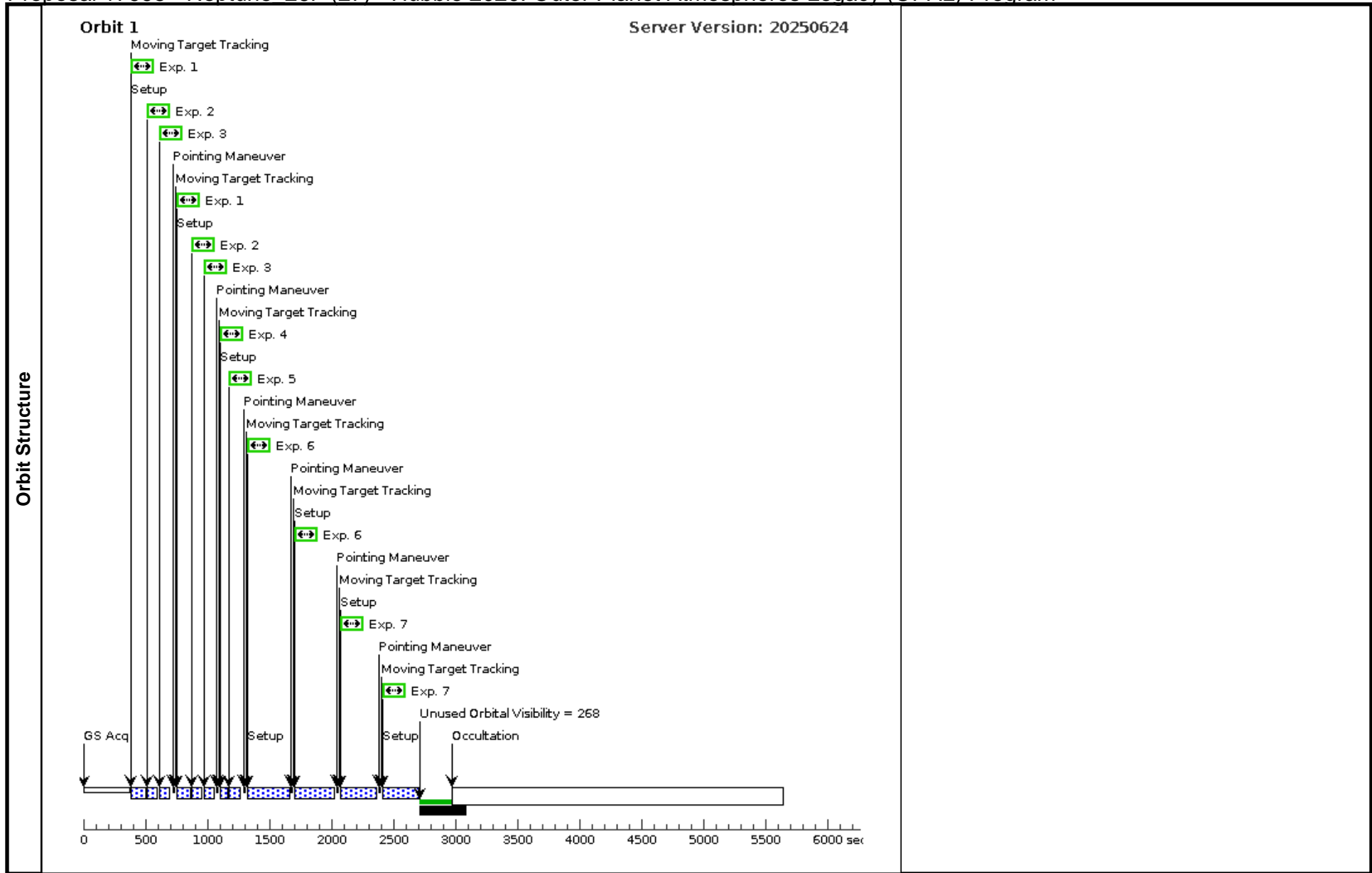
Proposal 17995 - Neptune 26F (27) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | |
|---|---|--|--|--|------------------|---------------|---------------------|
| Visit | <p>Proposal 17995, Neptune_26F (27), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 26 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> | | | | | | |
| | <p>(F845M (27.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (27.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (27.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (27.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (27.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (27.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (27.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ619N_quadA (27.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (27.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Neptune_26F (27)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> | | | | | | |
| Diagnosics | | | | | | | |
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | | |
| (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH |
| <p><i>Comments: Description=Global Neptune Maps</i></p> | | | | | | | |

Proposal 17995 - Neptune 26F (27) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|------------------|----------------------|--------------------------------------|---------------|--------------|----------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26F (27) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26F (27) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26F (27) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26F (27) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26F (27) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26F (27) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26F (27) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26F (27) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_qu adD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+ 30.97 | Sequence 1-7 Non-Int in Neptune_26F (27) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_26F (27) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_qu adA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,- 26.0 | Sequence 1-7 Non-Int in Neptune_26F (27) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_26F (27) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



Proposal 17995 - Neptune 26G (28) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

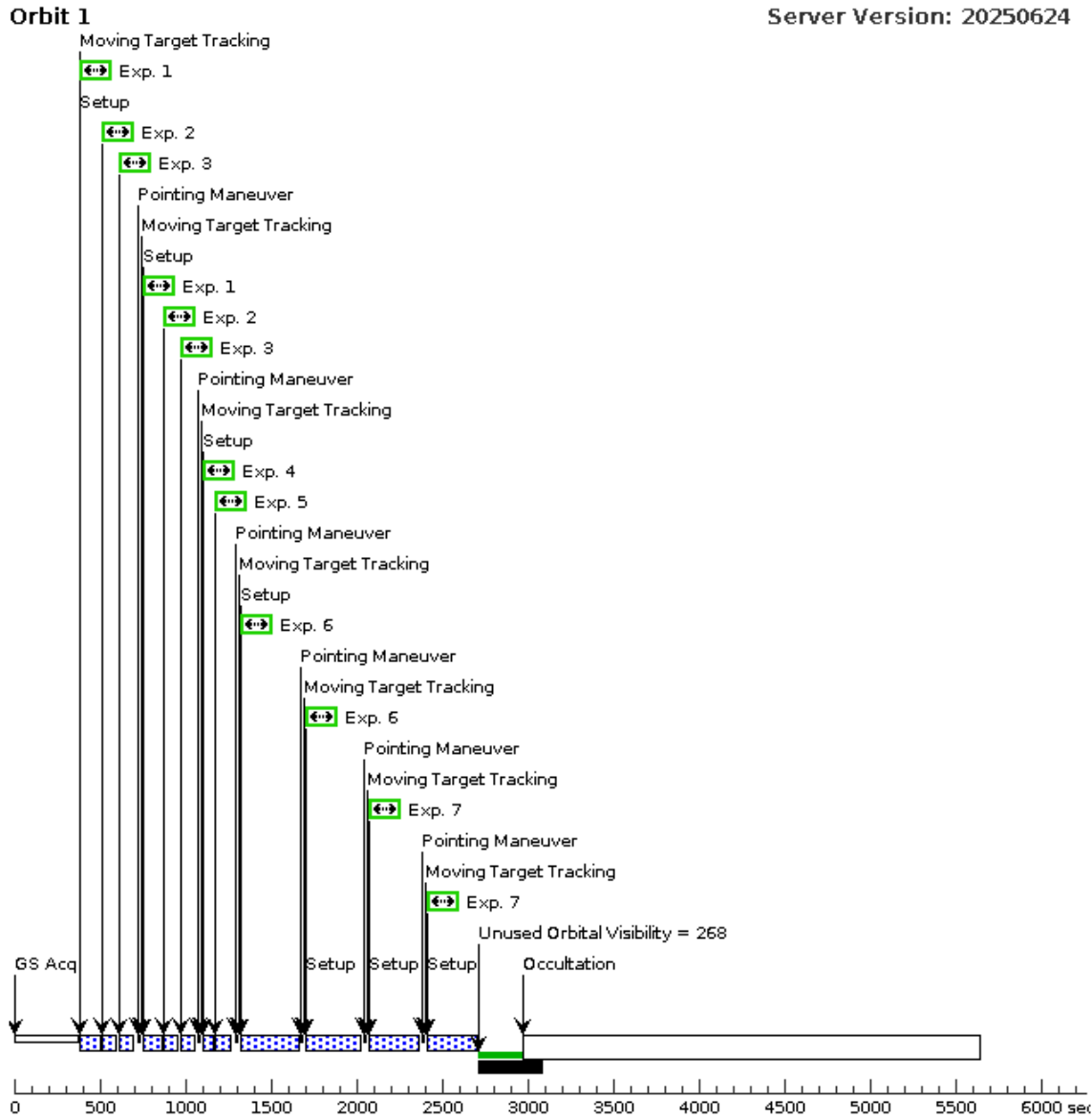
| | | | | | | | |
|---|---|--|--|--|------------------|---------------|---------------------|
| Visit | <p>Proposal 17995, Neptune_26G (28), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 27 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> | | | | | | |
| | <p>(F845M (28.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (28.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F763M (28.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M (28.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F657N (28.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (28.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727N_quadD (28.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(FQ619N_quadA (28.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ619N_quadA (28.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Neptune_26G (28)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> | | | | | | |
| Diagnosics | | | | | | | |
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | | |
| (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH |
| <p><i>Comments: Description=Global Neptune Maps</i></p> | | | | | | | |

Proposal 17995 - Neptune 26G (28) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--------------|----------------------|--------------------------------------|---------------|--------------|------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26G (28) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26G (28) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26G (28) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26G (28) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26G (28) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26G (28) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26G (28) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26G (28) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_quadD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+30.97 | Sequence 1-7 Non-Int in Neptune_26G (28) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_26G (28) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_quadA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,-26.0 | Sequence 1-7 Non-Int in Neptune_26G (28) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_26G (28) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |

Orbit Structure

Server Version: 20250624



Proposal 17995 - Neptune 26H (29) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:52 GMT 2025

| | | | | | | | |
|---|---|--|--|------------------|----------------|---------------|---------------------|
| Visit | Proposal 17995, Neptune_26H (29), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 28 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F845M (29.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (29.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F763M (29.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (29.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F657N (29.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (29.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (29.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (FQ619N_quadA (29.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (29.007)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Neptune_26H (29)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (1-3), (7) | | | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (4) | NEPTUNE-MAPS | STD=NEPTUNE | | | | EARTH |
| Comments: Description=Global Neptune Maps | | | | | | | |

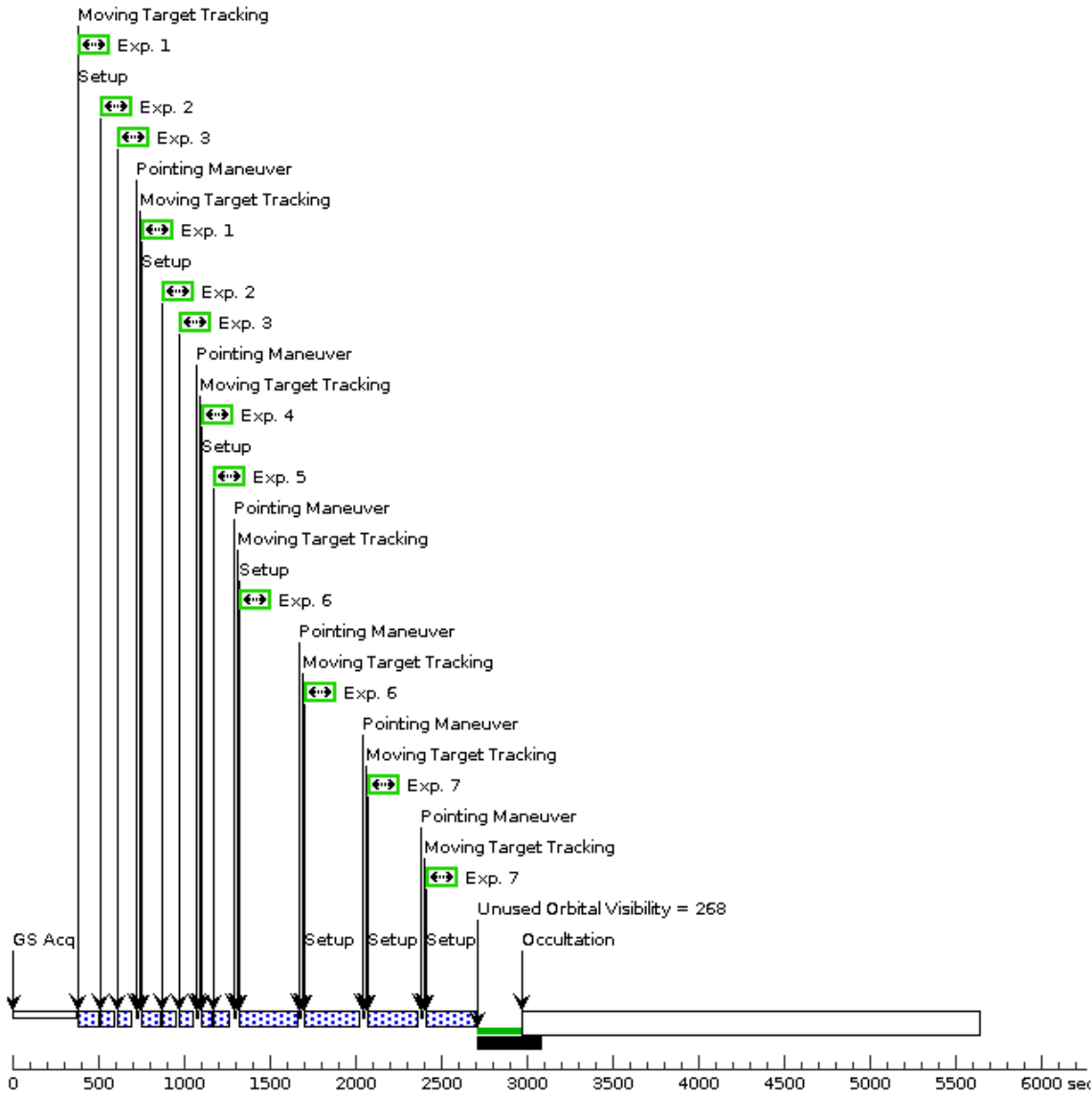
Proposal 17995 - Neptune 26H (29) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|------------------|----------------------|--------------------------------------|---------------|--------------|----------------------------|---|---|-------|
| | 1 | F845M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F845M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26H (29) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26H (29) (2) | 40 Secs (80 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | F467M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26H (29) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26H (29) (2) | 15 Secs (30 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 3 | F763M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F763M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26H (29) Pattern 2, Exps 1-3 in Sequence 1-7 Non-Int in Neptune_26H (29) (2) | 20 Secs (40 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 4 | F547M | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F547M | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26H (29) | 6 Secs (6 Secs) [==>] | [1] |
| | 5 | F657N | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS2-M512C-SUB | F657N | CR-SPLIT=NO | | Sequence 1-7 Non-Int in Neptune_26H (29) | 30 Secs (30 Secs) [==>] | [1] |
| | 6 | FQ727N_qu adD | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -27.18,+ 30.97 | Sequence 1-7 Non-Int in Neptune_26H (29) Pattern 3, Exps 6-6 in Sequence 1-7 Non-Int in Neptune_26H (29) (3) | 150 Secs (300 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | FQ619N_qu adA | (4) NEPTUNE-MAP S | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ619N | CR-SPLIT=NO | POS TARG +22.01,- 26.0 | Sequence 1-7 Non-Int in Neptune_26H (29) Pattern 2, Exps 7-7 in Sequence 1-7 Non-Int in Neptune_26H (29) (2) | 120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |

Orbit Structure

Server Version: 20250624

Orbit 1



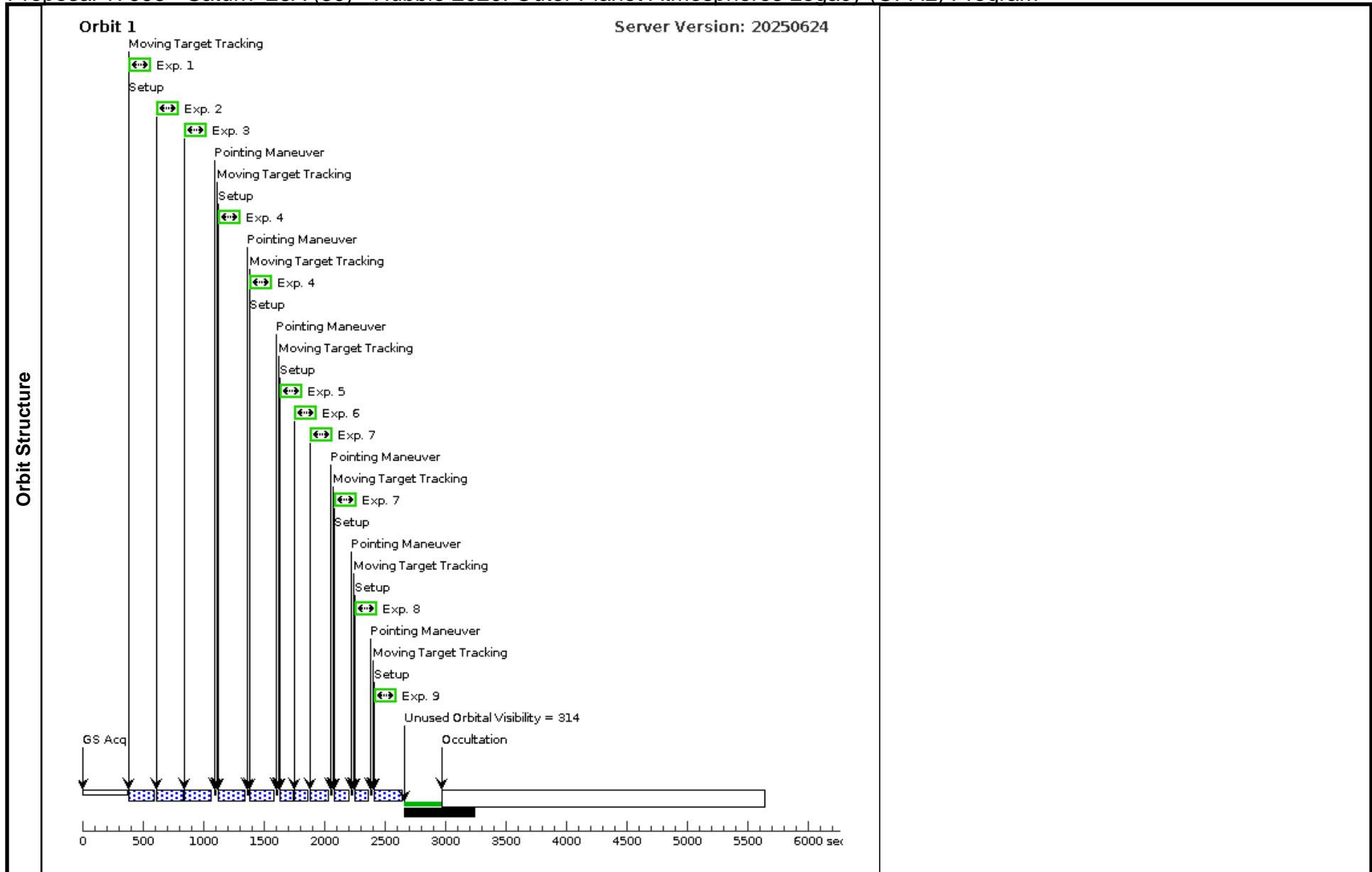
Proposal 17995 - Saturn 26A (30) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| Visit | <p>Proposal 17995, Saturn_26A (30), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 09-AUG-2026 AND 14-NOV-2026; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: 12 orbits, should be contiguous, if possible. A gap of 1 or 2 orbits between E/F, F/G, or G/H (i.e., between visits 34/35, 35/36, or 36/37) is acceptable. Impingement into SAA is OK if the above timing gaps cannot prevent it.</i></p> <p><i>Saturn opposition (2026-Oct-04) +/- 30 days preferred.</i></p> <p><i>We can accept +/- 40 days to account for 21 unschedulable days near opposition (HST temperature rule would be exceeded by Saturn series because target is > 168 deg from the Sun), and earlier dates due to limited FOR</i></p> <p><i>OPAL Saturn filters: 225, 275, 343, 395, 467, 502, 631, 727, 763, 889</i></p> <p>TRIMMING RULES</p> <p><i>These are suggested actions to trim time from orbits that have reduced visibility, gyro bias, etc. Please try these in order:</i></p> <ol style="list-style-type: none"> <i>1. Delete the second F631N exposure. Can be done on a visit-by-visit basis as needed.</i> <i>2. Smaller subarrays for exposures 1-3. Change aperture in all three exposures to UVIS2-MIK1C-SUB. Update name of exposure to remove "2K". Can be done on a visit-by-visit basis as needed, but, treat all three exposures in a single visit the same (don't change only 1).</i> <i>3. Pull the FQ727N exposure out of its pattern and delete the pattern (i.e., only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>4. Pull the F225W or F275W exposure out of its pattern and delete the pattern (i.e., only take 1 frame of data not 2). Can be done on a visit-by-visit basis as needed.</i> <i>5. Reduce exposure time in FQ889N to as short as 30 sec. If this is needed, trim exposures in every Saturn visit by the same amount (so they all have a uniform exposure time).</i> | | | | | | | | | | | | | | |
|-----------------|---|---|-------------------|-----------|---|-----------------|-------------------|-----------|-----|--|--|-----|-----|--|--|
| | Diagnostics | <p>(F631N_2K (30.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F502N_2K (30.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F395N_2K (30.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (30.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ727_quadD (30.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(F763M (30.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F467M (30.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F225W (30.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F631N (30.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889_quadA (30.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889_quadA (30.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Saturn_26A (30)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> | | | | | | | | | | | | | |
| Patterns | | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(7)</td> </tr> <tr> <td>(3)</td> <td> Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false </td> <td>(4)</td> </tr> </tbody> </table> | | | # | Primary Pattern | Secondary Pattern | Exposures | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (7) | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false |
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Proposal 17995 - Saturn 26A (30) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | |
|----------------------|---|-----------------------------------|-----------------|-----------------------------------|---------------|-------------------------|--|---|---|-------|
| | | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN-MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH | | |
| | <i>Comments: Description=Global Saturn Maps</i> | | | | | | | | | |
| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26A (30) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26A (30) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.1005337) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26A (30) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_quad (WFC3UVI S.im.1005393) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+21.76 | Sequence 1-9 Non-Int in Saturn_26A (30) Pattern 3, Exps 4-4 in Sequence 1-9 Non-Int in Saturn_26A (30) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.1005344) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26A (30) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F467M (WFC3UVI S.im.1005339) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26A (30) | 7 Secs (7 Secs) [==>] | [1] |
| | 7 | F225W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F225W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26A (30) Pattern 2, Exps 7-7 in Sequence 1-9 Non-Int in Saturn_26A (30) (2) | 45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26A (30) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_quadA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,-16.89 | Sequence 1-9 Non-Int in Saturn_26A (30) | 45 Secs (45 Secs) [==>] | [1] |



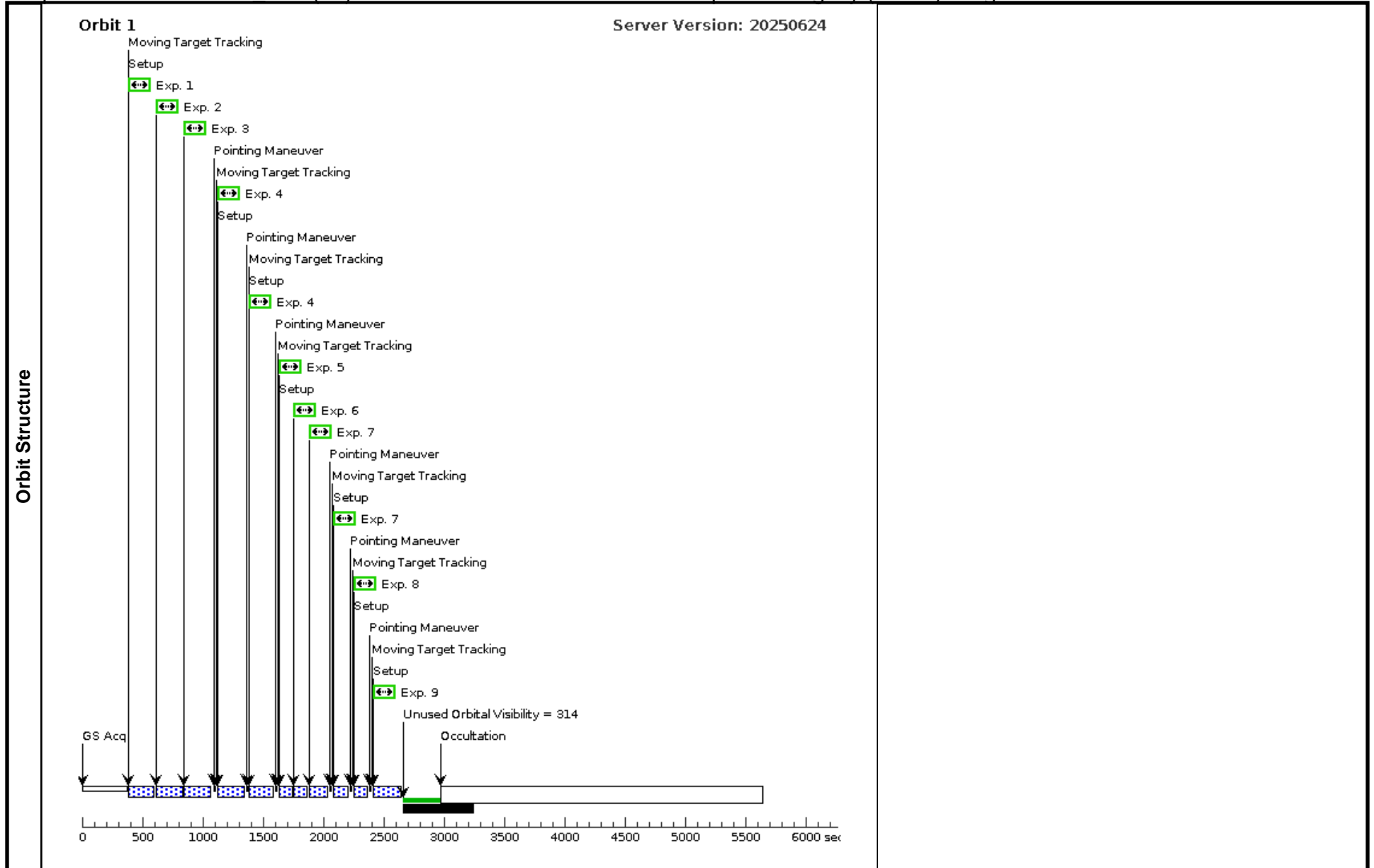
Proposal 17995 - Saturn 26B (31) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

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|--|---|--|--|--------------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26B (31), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 30 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F631N_2K (31.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (31.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (31.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (31.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (31.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (31.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (31.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (31.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (31.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (31.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (31.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26B (31)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | | Secondary Pattern | | Exposures | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (7) | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (4) | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| Comments: Description=Global Saturn Maps | | | | | | | |

Proposal 17995 - Saturn 26B (31) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26B (31) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26B (31) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26B (31) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26B (31) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26B (3 1) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26B (31) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F467M (WFC3UVI S.im.100533 9) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26B (31) | 7 Secs (7 Secs) [==>] | [1] |
| | 7 | F225W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F225W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26B (31) Pattern 2, Exps 7-7 i n Sequence 1-9 Non- Int in Saturn_26B (3 1) (2) | 45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26B (31) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26B (31) | 45 Secs (45 Secs) [==>] | [1] |



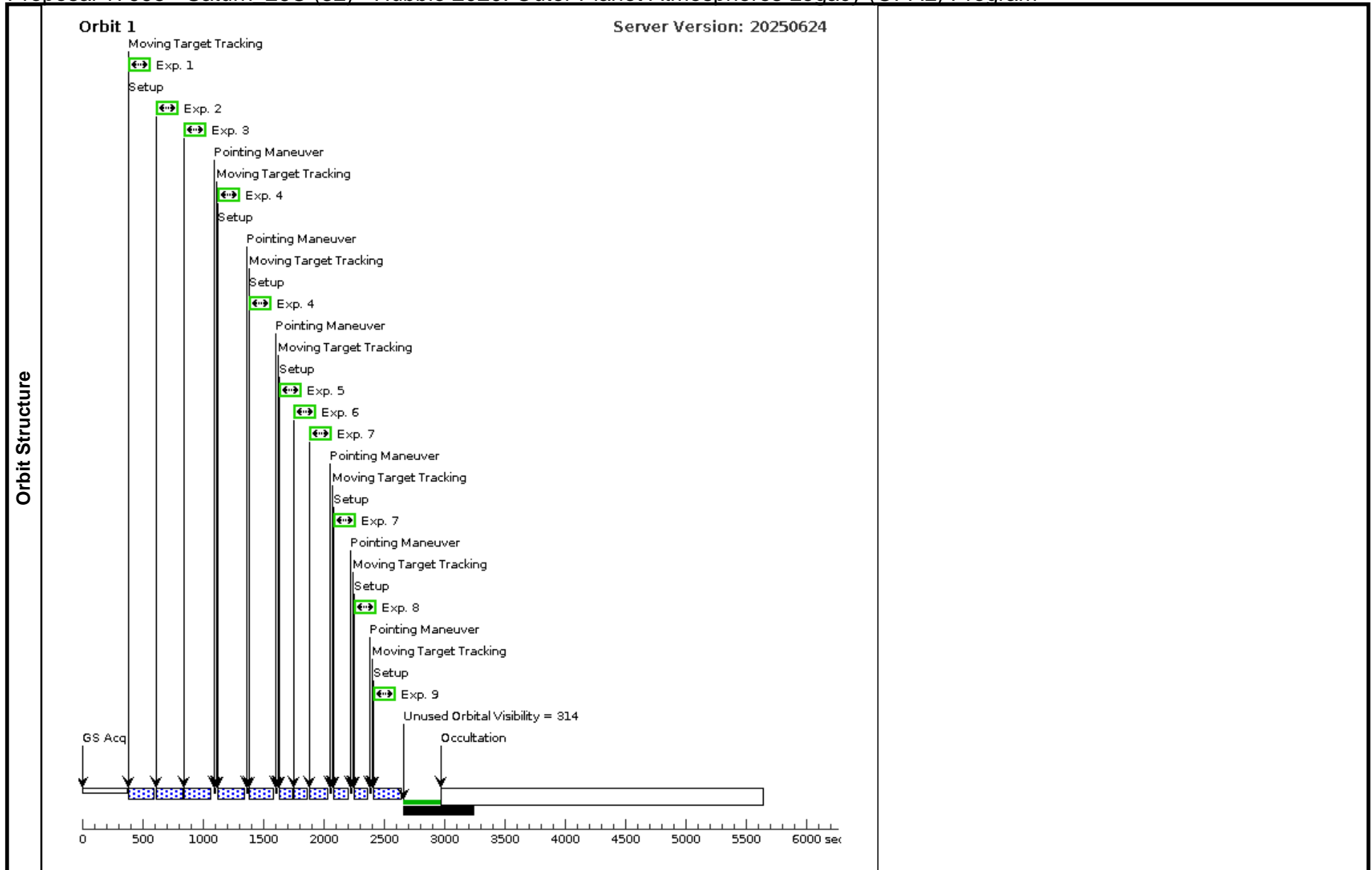
Proposal 17995 - Saturn 26C (32) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | |
|--|---|--|--|--------------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26C (32), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 31 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
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| Patterns | # | Primary Pattern | | Secondary Pattern | | Exposures | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (7) | |
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| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| Comments: Description=Global Saturn Maps | | | | | | | |

Proposal 17995 - Saturn 26C (32) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|--------------------|--|----------------------|--------------------------------------|--------------|-------------------------|--|---|-------|
| Exposures | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26C (32) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26C (32) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26C (32) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 Sequence 1-9 Non-Int in Saturn_26C (32) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26C (3 2) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | Sequence 1-9 Non-Int in Saturn_26C (32) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F467M (WFC3UVI S.im.100533 9) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F467M | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26C (32) | 7 Secs (7 Secs) [==>] | [1] |
| | 7 | F225W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F225W | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26C (32) Pattern 2, Exps 7-7 i n Sequence 1-9 Non- Int in Saturn_26C (3 2) (2) | 45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26C (32) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 Sequence 1-9 Non-Int in Saturn_26C (32) | 45 Secs (45 Secs) [==>] | [1] |



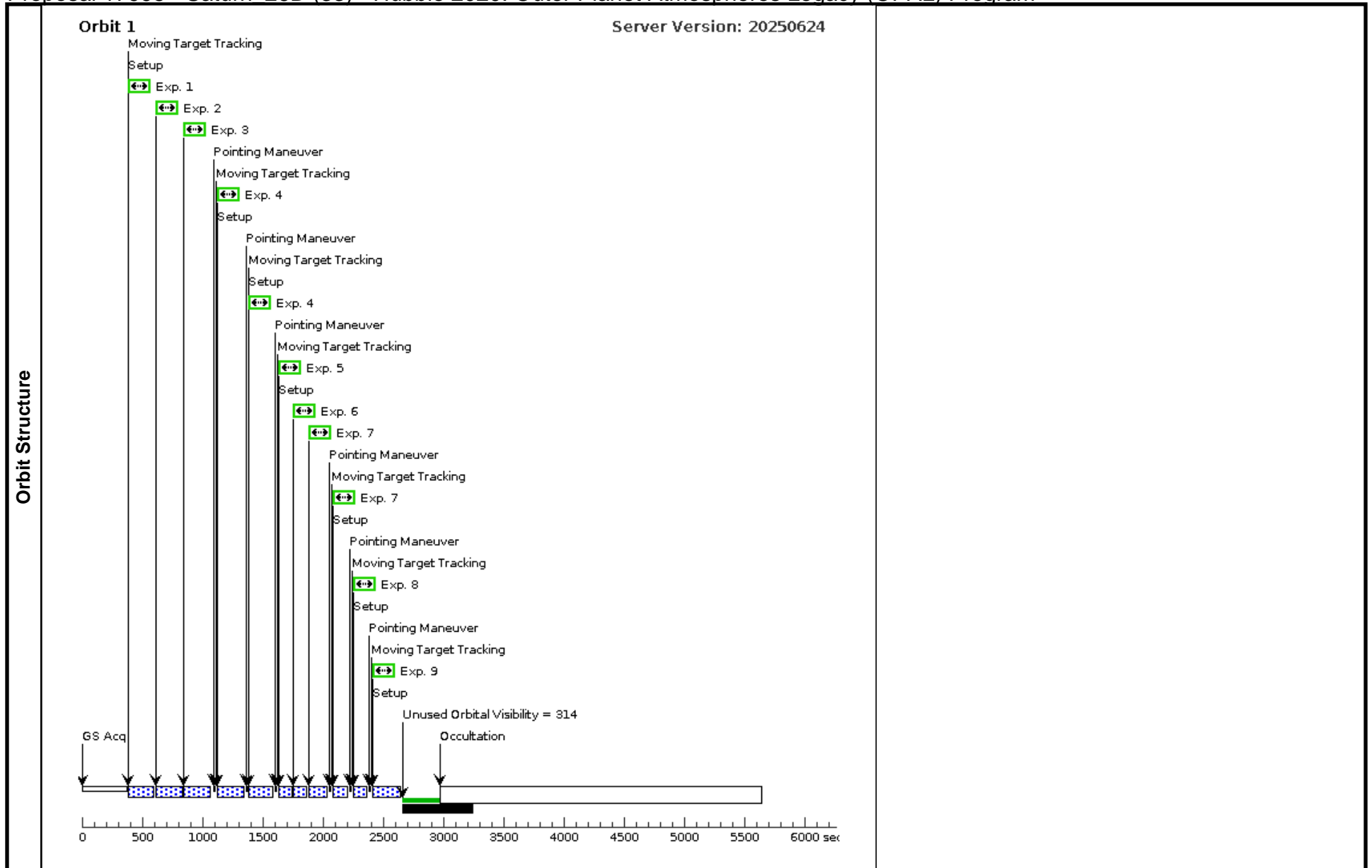
Proposal 17995 - Saturn 26D (33) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | | |
|-----------------------------|--|--|--|--|----------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26D (33), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 32 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F631N_2K (33.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (33.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (33.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (33.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (33.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (33.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (33.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (33.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (33.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (33.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (33.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26D (33)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | | | | Exposures |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (7) |
| | | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | | (4) |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| | | <i>Comments: Description=Global Saturn Maps</i> | | | | | | |

Proposal 17995 - Saturn 26D (33) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|--------------------|--|----------------------|--------------------------------------|--------------|-------------------------|--|---|-------|
| Exposures | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26D (33) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26D (33) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26D (33) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 Sequence 1-9 Non-Int in Saturn_26D (33) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26D (3 3) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | Sequence 1-9 Non-Int in Saturn_26D (33) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F467M (WFC3UVI S.im.100533 9) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F467M | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26D (33) | 7 Secs (7 Secs) [==>] | [1] |
| | 7 | F225W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F225W | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26D (33) Pattern 2, Exps 7-7 i n Sequence 1-9 Non- Int in Saturn_26D (3 3) (2) | 45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | Sequence 1-9 Non-Int in Saturn_26D (33) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 Sequence 1-9 Non-Int in Saturn_26D (33) | 45 Secs (45 Secs) [==>] | [1] |



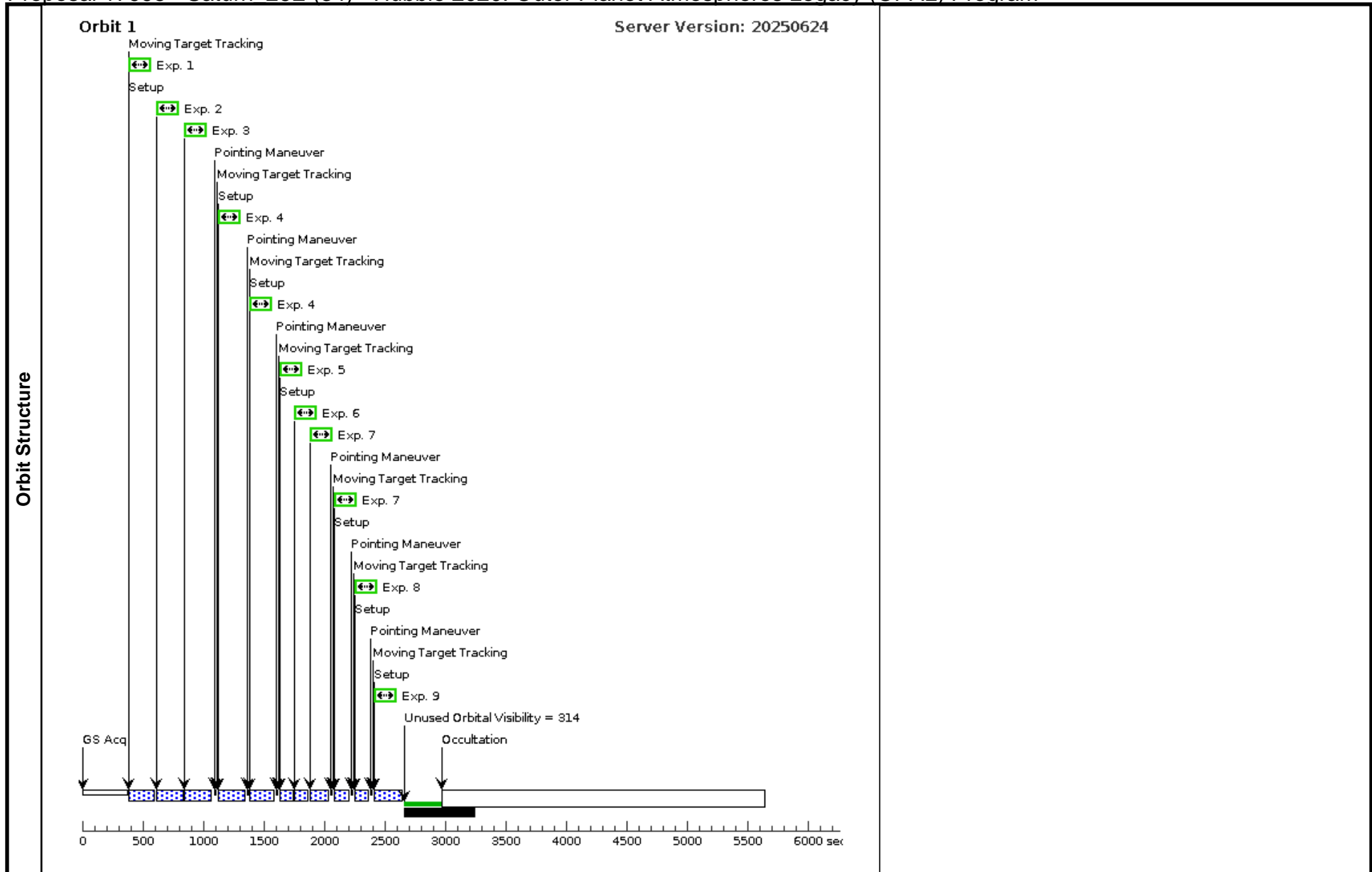
Proposal 17995 - Saturn 26E (34) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | |
|---|---|--|--|------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26E (34), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 33 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F631N_2K (34.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (34.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (34.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (34.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (34.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (34.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (34.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (34.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (34.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (34.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (34.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26E (34)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (7) | | | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (4) | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| <i>Comments: Description=Global Saturn Maps</i> | | | | | | | |

Proposal 17995 - Saturn 26E (34) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26E (34) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26E (34) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26E (34) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26E (34) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26E (3 4) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26E (34) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F467M (WFC3UVI S.im.100533 9) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26E (34) | 7 Secs (7 Secs) [==>] | [1] |
| | 7 | F225W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F225W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26E (34) Pattern 2, Exps 7-7 i n Sequence 1-9 Non- Int in Saturn_26E (3 4) (2) | 45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26E (34) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26E (34) | 45 Secs (45 Secs) [==>] | [1] |



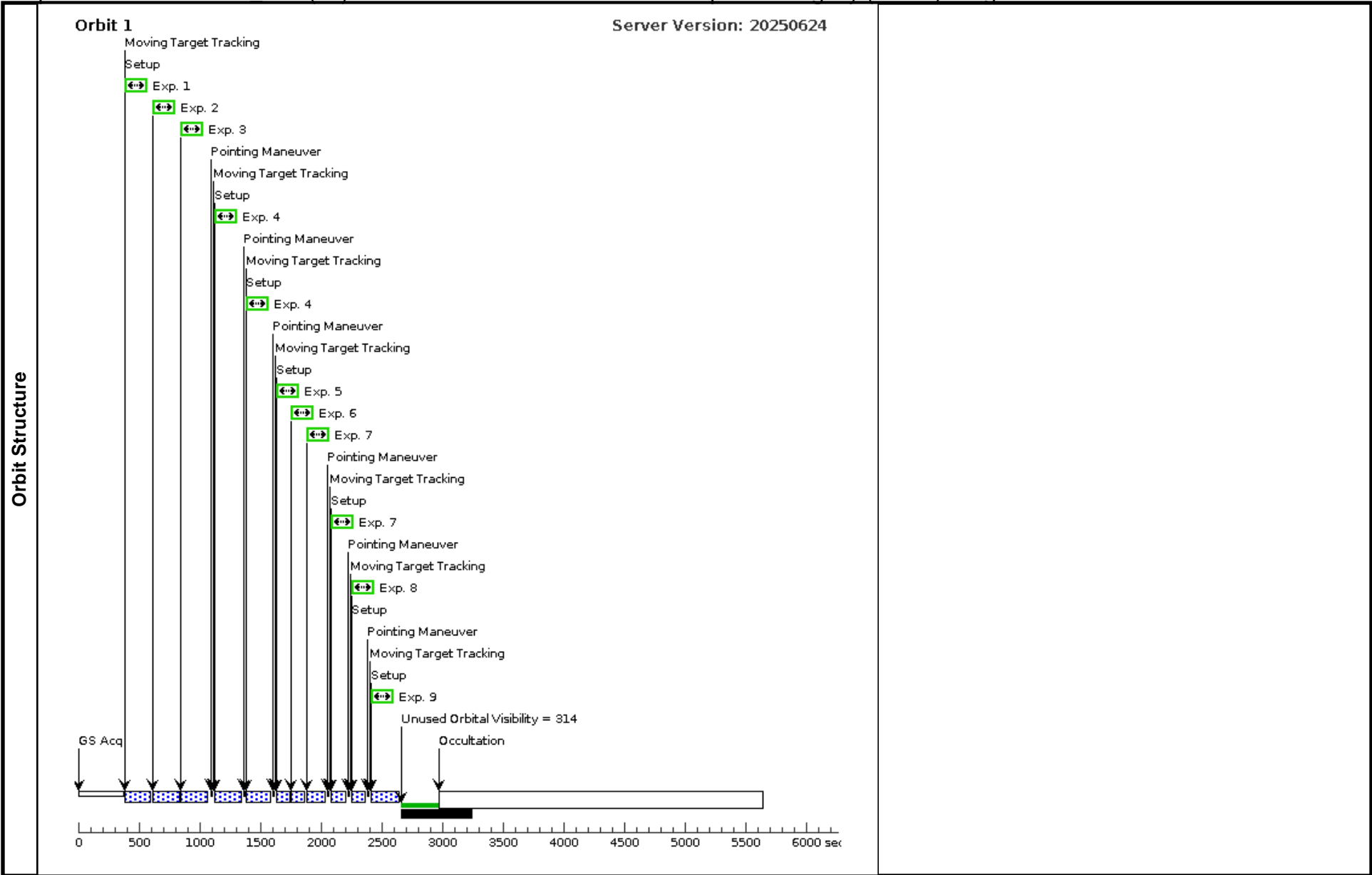
Proposal 17995 - Saturn 26F (35) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | |
|---|---|--|--|--------------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26F (35), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 34 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F631N_2K (35.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (35.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (35.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (35.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (35.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (35.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (35.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F225W (35.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (35.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (35.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (35.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26F (35)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | | Secondary Pattern | | Exposures | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (7) | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (4) | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| <i>Comments: Description=Global Saturn Maps</i> | | | | | | | |

Proposal 17995 - Saturn 26F (35) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26F (35) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26F (35) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26F (35) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26F (35) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26F (3 5) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26F (35) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F467M (WFC3UVI S.im.100533 9) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F467M | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26F (35) | 7 Secs (7 Secs) [==>] | [1] |
| | 7 | F225W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F225W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26F (35) Pattern 2, Exps 7-7 i n Sequence 1-9 Non- Int in Saturn_26F (3 5) (2) | 45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26F (35) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26F (35) | 45 Secs (45 Secs) [==>] | [1] |



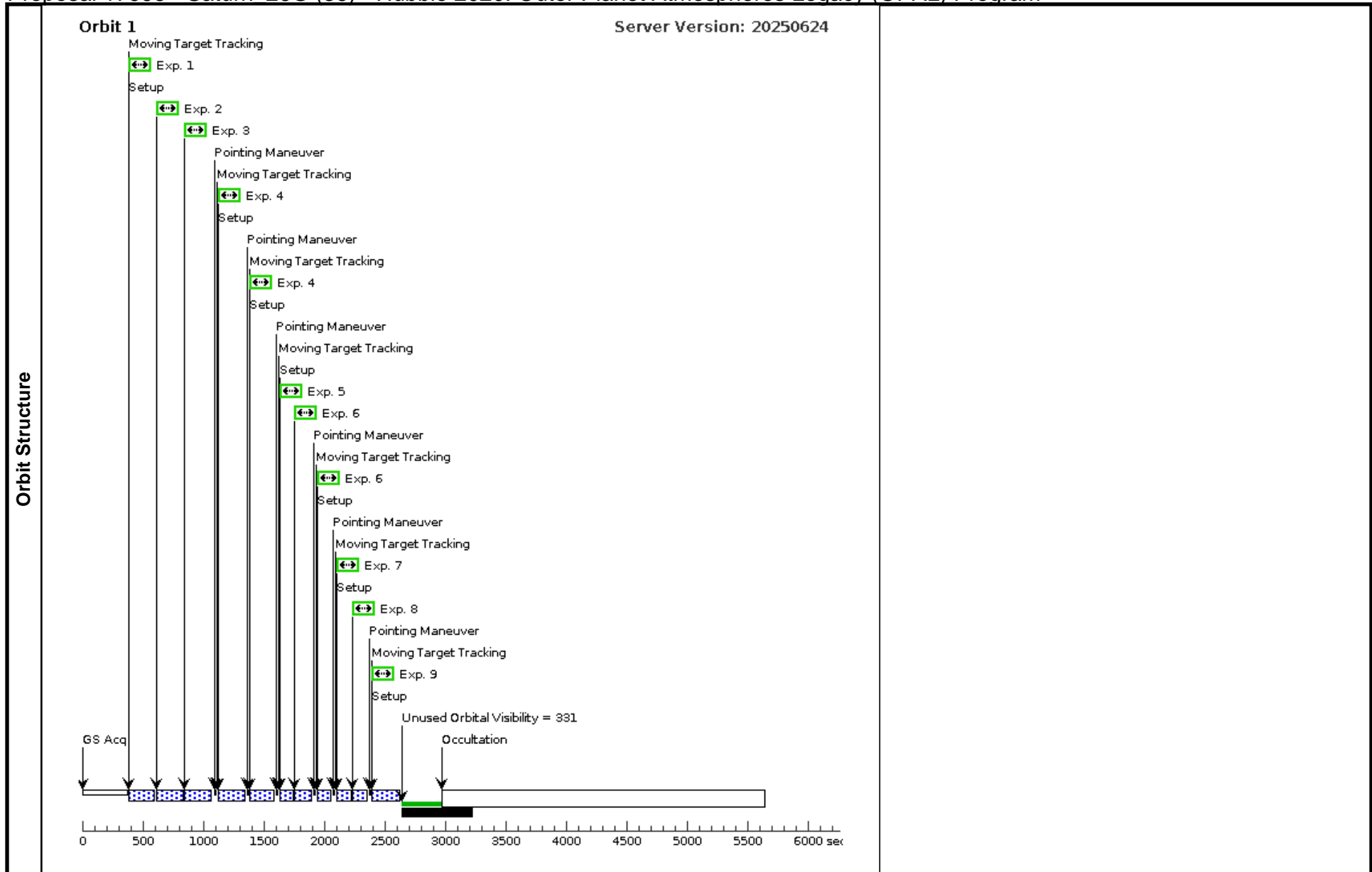
Proposal 17995 - Saturn 26G (36) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | |
|---|---|--|--|--------------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26G (36), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 35 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F631N_2K (36.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (36.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (36.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (36.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (36.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (36.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (36.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (36.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (36.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (36.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (36.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26G (36)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | | Secondary Pattern | | Exposures | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (6) | |
| (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (4) | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| <i>Comments: Description=Global Saturn Maps</i> | | | | | | | |

Proposal 17995 - Saturn 26G (36) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26G (36) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26G (36) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26G (36) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26G (36) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26G (3 6) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26G (36) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F275W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26G (36) Pattern 2, Exps 6-6 i n Sequence 1-9 Non- Int in Saturn_26G (3 6) (2) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | F343N (WFC3UVI S.im.100533 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26G (36) | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26G (36) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26G (36) | 45 Secs (45 Secs) [==>] | [1] |



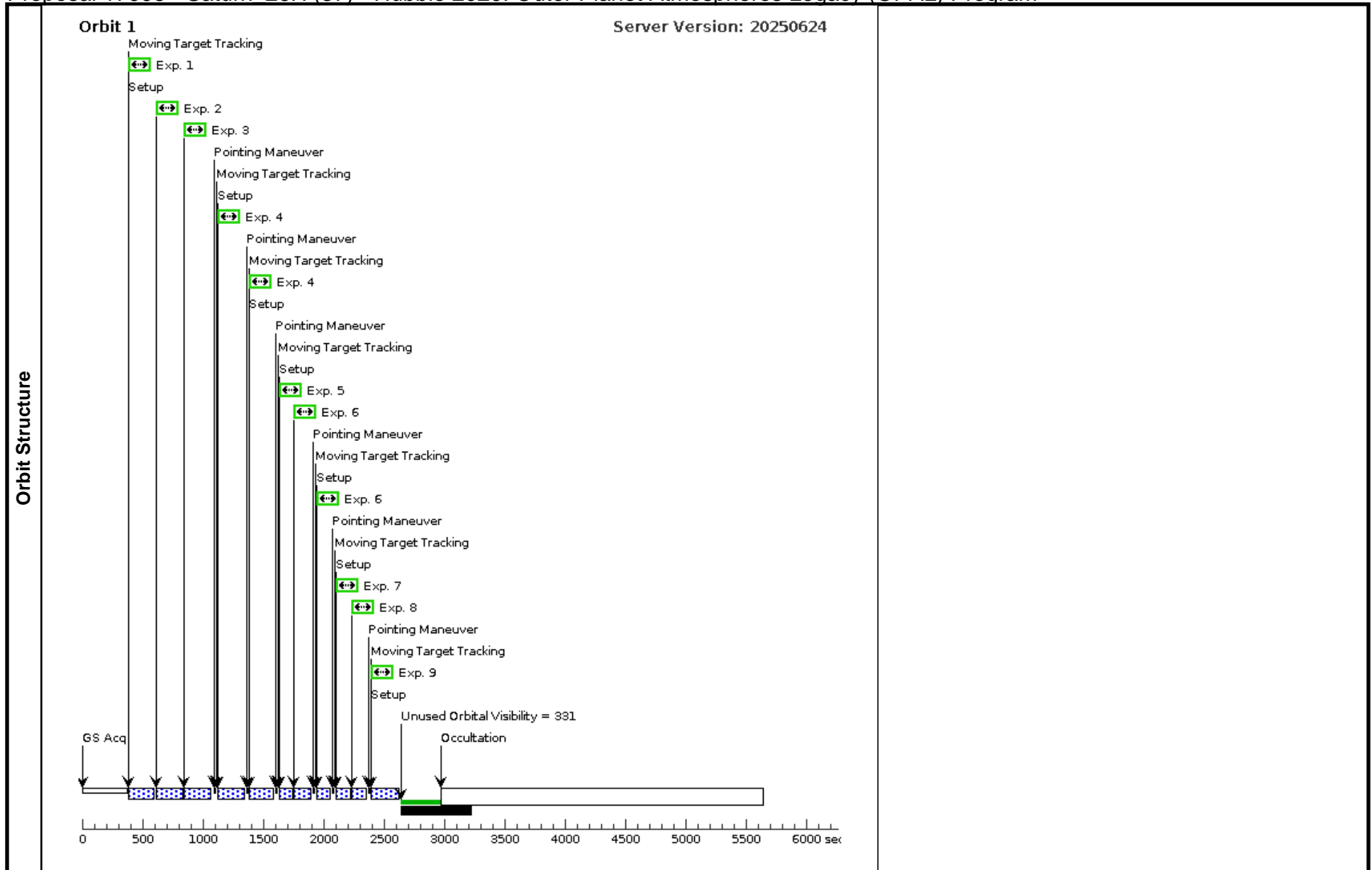
Proposal 17995 - Saturn 26H (37) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | | |
|---|--|--|--|--|------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26H (37), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 36 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F631N_2K (37.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (37.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (37.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (37.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (37.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (37.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (37.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (37.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (37.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (37.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (37.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26H (37)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | |
| (3) | | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (4) | | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| <i>Comments: Description=Global Saturn Maps</i> | | | | | | | | |

Proposal 17995 - Saturn 26H (37) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-------------------------------------|-----------------|-----------------------------------|---------------|-------------------------|------------------------|---|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26H (37) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26H (37) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.1005337) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26H (37) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.1005393) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+21.76 | Sequence 1-9 Non-Int in Saturn_26H (37) Pattern 3, Exps 4-4 in Sequence 1-9 Non-Int in Saturn_26H (37) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.1005344) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26H (37) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F275W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26H (37) Pattern 2, Exps 6-6 in Sequence 1-9 Non-Int in Saturn_26H (37) (2) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | F343N (WFC3UVI S.im.1005334) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26H (37) | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26H (37) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,-16.89 | Sequence 1-9 Non-Int in Saturn_26H (37) | 45 Secs (45 Secs) [==>] | [1] |



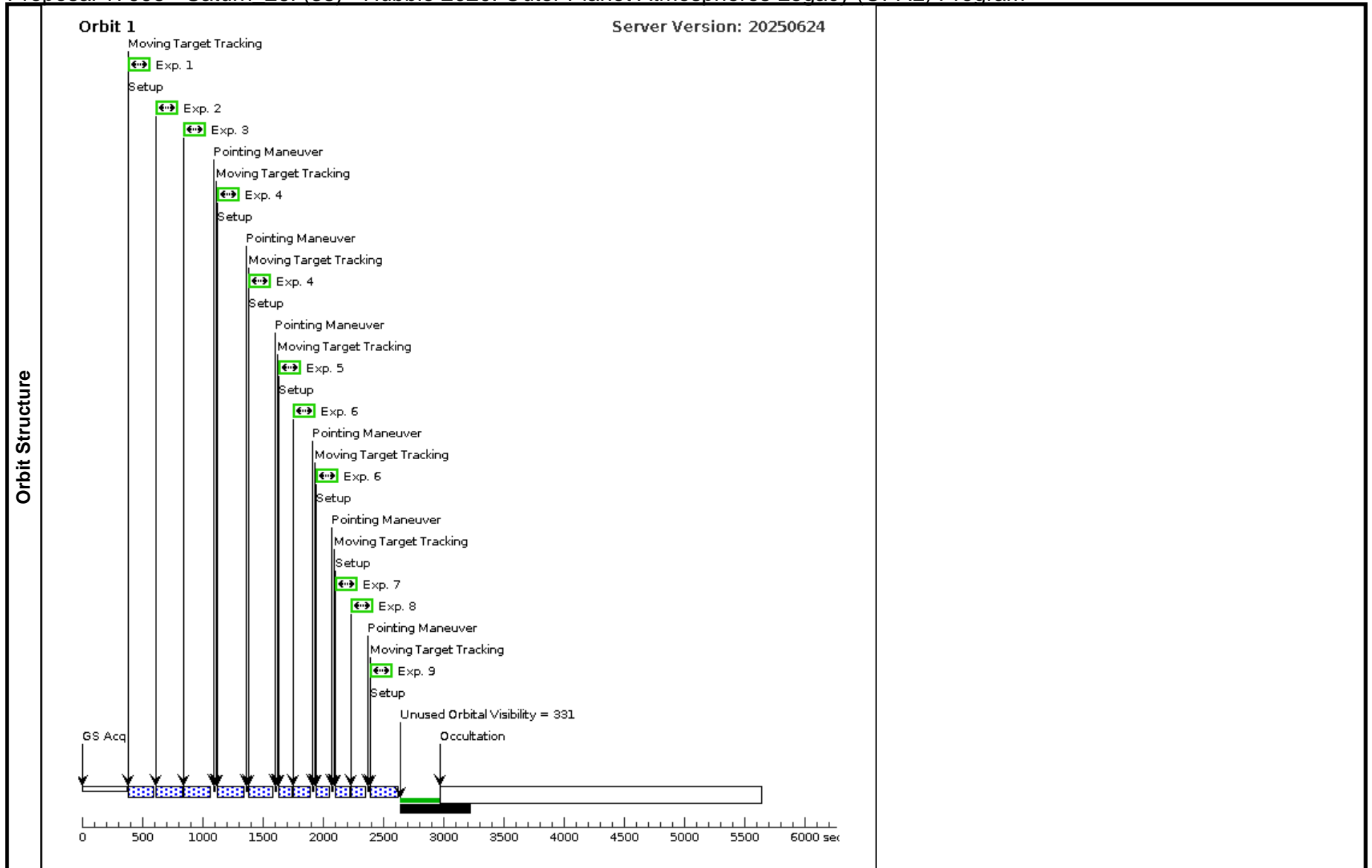
Proposal 17995 - Saturn 26I (38) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | | |
|---|--|--|--|--------------------------|------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26I (38), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 37 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F631N_2K (38.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (38.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (38.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (38.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (38.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (38.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (38.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (38.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (38.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (38.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (38.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26I (38)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (6) | | | |
| | | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (4) | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| <i>Comments: Description=Global Saturn Maps</i> | | | | | | | | |

Proposal 17995 - Saturn 26I (38) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26I (38) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26I (38) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26I (38) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26I (38) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26I (38) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26I (38) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F275W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26I (38) Pattern 2, Exps 6-6 i n Sequence 1-9 Non- Int in Saturn_26I (38) (2) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | F343N (WFC3UVI S.im.100533 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26I (38) | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26I (38) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26I (38) | 45 Secs (45 Secs) [==>] | [1] |



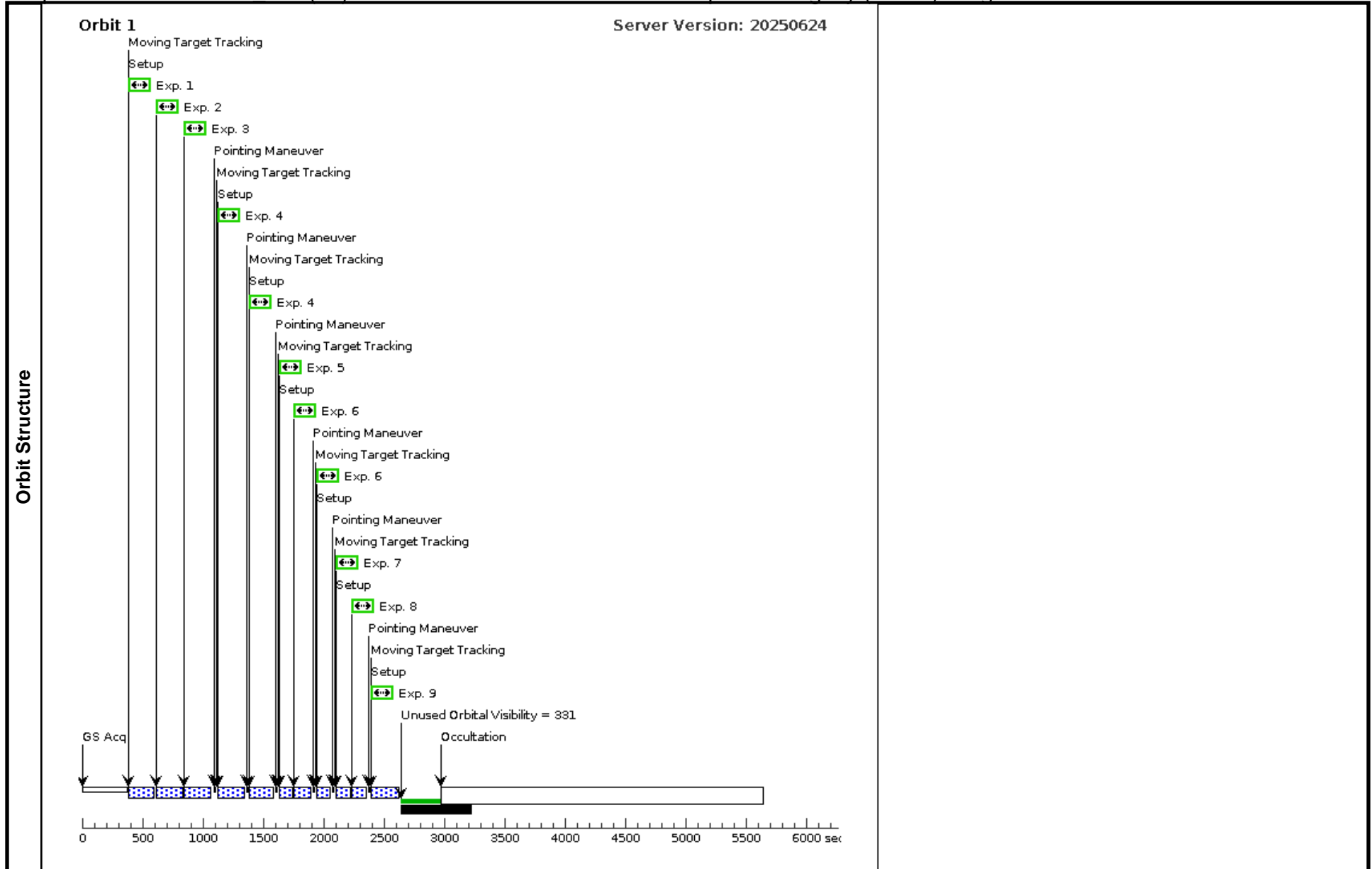
Proposal 17995 - Saturn 26J (39) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | | |
|---|--|--|--|--|------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26J (39), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 38 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F631N_2K (39.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (39.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (39.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (39.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (39.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F763M (39.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (39.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (39.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (39.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (39.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (39.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Saturn_26J (39)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (6) | | | |
| | | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | (4) | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| <i>Comments: Description=Global Saturn Maps</i> | | | | | | | | |

Proposal 17995 - Saturn 26J (39) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26J (39) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26J (39) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26J (39) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26J (39) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26J (39) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26J (39) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F275W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26J (39) Pattern 2, Exps 6-6 i n Sequence 1-9 Non- Int in Saturn_26J (39) (2) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | F343N (WFC3UVI S.im.100533 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26J (39) | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26J (39) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26J (39) | 45 Secs (45 Secs) [==>] | [1] |



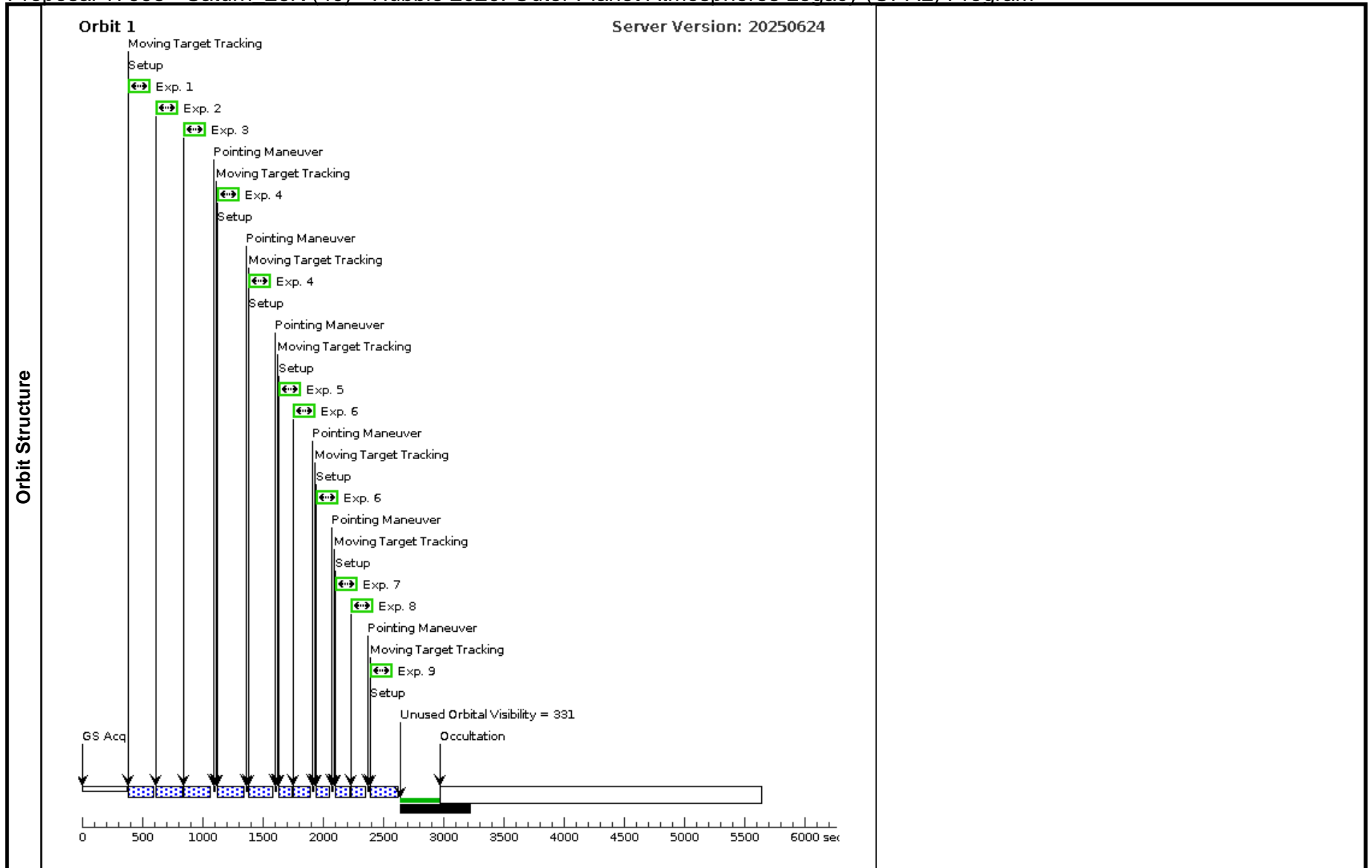
Proposal 17995 - Saturn 26K (40) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | |
|--|---|--|--|--------------------------|----------------|------------------|--|
| Visit | Proposal 17995, Saturn_26K (40), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 39 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | |
| | Diagnosics (F631N_2K (40.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (40.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (40.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (40.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (40.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (F763M (40.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (40.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (40.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (40.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (40.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (40.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Saturn_26K (40)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | # | Primary Pattern | | Secondary Pattern | | Exposures | |
| | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (6) | |
| | (3) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | | (4) | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | (2) | SATURN-MAPS | STD=SATURN | | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D |
| Comments: Description=Global Saturn Maps | | | | | | | |

Proposal 17995 - Saturn 26K (40) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26K (40) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26K (40) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26K (40) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26K (40) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26K (4 0) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26K (40) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F275W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26K (40) Pattern 2, Exps 6-6 i n Sequence 1-9 Non- Int in Saturn_26K (4 0) (2) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | F343N (WFC3UVI S.im.100533 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26K (40) | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26K (40) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26K (40) | 45 Secs (45 Secs) [==>] | [1] |



Proposal 17995 - Saturn 26L (41) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

Mon Oct 06 16:00:53 GMT 2025

| | | | | | | | | |
|--|--|--|--|--------------------------|------------------|----------------|--|---------------------|
| Visit | Proposal 17995, Saturn_26L (41), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 40 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET | | | | | | | |
| | Diagnostics | (F631N_2K (41.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F502N_2K (41.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F395N_2K (41.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (41.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727_quadD (41.004)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (F763M (41.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F275W (41.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F343N (41.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F631N (41.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (41.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889_quadA (41.009)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignettted part of the field of view or moving it to another quadrant. (Saturn_26L (41)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | |
| Patterns | | # | Primary Pattern | Secondary Pattern | Exposures | | | |
| | | (2) | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (6) | | | |
| (3) | | Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.725 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false | | (4) | | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center |
| | | (2) | SATURN-MAPS | STD=SATURN | | | NOT ECL P PARTIAL OF SATURN- MAPS BY TITAN FROM EARTH, SEP OF SATURN-MAPS RHEA FROM EARTH GT 10", SEP OF SATURN-MAPS TITAN FROM EARTH GT 10", SEP OF SATURN-MAPS SUN FROM EARTH LT 168D | EARTH |
| Comments: Description=Global Saturn Maps | | | | | | | | |

Proposal 17995 - Saturn 26L (41) - Hubble 2020: Outer Planet Atmospheres Legacy (OPAL) Program

| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|--|-----------------|--------------------------------------|---------------|-------------------------|----------------------------|--|---|-------|
| | 1 | F631N_2K (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26L (41) | 15 Secs (15 Secs) [==>] | [1] |
| | 2 | F502N_2K (WFC3UVI S.im.712369) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F502N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26L (41) | 23 Secs (23 Secs) [==>] | [1] |
| | 3 | F395N_2K (WFC3UVI S.im.100533 7) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F395N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26L (41) | 40 Secs (40 Secs) [==>] | [1] |
| | 4 | FQ727_qua dD (WFC3UVI S.im.100539 3) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ727N | CR-SPLIT=NO | POS TARG -19.33,+ 21.76 | Sequence 1-9 Non-Int in Saturn_26L (41) Pattern 3, Exps 4-4 i n Sequence 1-9 Non- Int in Saturn_26L (4 1) (3) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 5 | F763M (WFC3UVI S.im.100534 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F763M | CR-SPLIT=NO; BLADE=A | | Sequence 1-9 Non-Int in Saturn_26L (41) | 2 Secs (2 Secs) [==>] | [1] |
| | 6 | F275W | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F275W | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26L (41) Pattern 2, Exps 6-6 i n Sequence 1-9 Non- Int in Saturn_26L (4 1) (2) | 30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 7 | F343N (WFC3UVI S.im.100533 4) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F343N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26L (41) | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | F631N (WFC3UVI S.im.712372) | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB | F631N | CR-SPLIT=NO | | Sequence 1-9 Non-Int in Saturn_26L (41) | 15 Secs (15 Secs) [==>] | [1] |
| | 9 | FQ889_qua dA | (2) SATURN-MAPS | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ889N | CR-SPLIT=NO | POS TARG +14.23,- 16.89 | Sequence 1-9 Non-Int in Saturn_26L (41) | 45 Secs (45 Secs) [==>] | [1] |

