



## 7073 - Charting the Cosmic Shoreline

Cycle: 4, Proposal Category: GO

### INVESTIGATORS

| <i>Name</i>                                | <i>Institution</i>   |
|--|--|
| <b>Dr. Jacob Lustig-Yaeger (PI)</b>        | <b>The Johns Hopkins University Applied Physics Laboratory</b> |
| Dr. Kevin Stevenson (CoI) (CoPI) (Contact) | The Johns Hopkins University Applied Physics Laboratory        |
| Dr. Munazza Alam (CoI)                     | Space Telescope Science Institute                              |
| Dr. Natasha Batalha (CoI)                  | NASA Ames Research Center                                      |
| Ms. Katherine Bennett (CoI)                | The Johns Hopkins University                                   |
| Dr. Guangwei Fu (CoI)                      | The Johns Hopkins University                                   |
| Junellie Gonzalez Quiles (CoI)             | NASA Goddard Space Flight Center                               |
| Dr. Jegug Ih (CoI)                         | Space Telescope Science Institute                              |
| Dr. James Kirk (CoI) (ESA Member)          | Imperial College London  |
| Dr. Mercedes Lopez-Morales (CoI)           | Space Telescope Science Institute                              |
| Dr. Joshua D. Lothringer (CoI)             | Space Telescope Science Institute                              |
| Dr. Ryan J MacDonald (CoI) (ESA Member)    | University of St Andrews                                       |
| Dr. Megan Weiner Mansfield (CoI)           | University of Maryland   |
| Dr. Erin M May (CoI)                       | The Johns Hopkins University Applied Physics Laboratory        |
| Dr. Laura C Mayorga (CoI)                  | The Johns Hopkins University Applied Physics Laboratory        |
| Dr. Sarah Moran (CoI)                      | Space Telescope Science Institute                              |
| Dr. Sarah Peacock (CoI)                    | University of Maryland Baltimore County                        |
| Zafar Rustamkulov (CoI)                    | The Johns Hopkins University                                   |
| Prof. David K. Sing (CoI)                  | The Johns Hopkins University                                   |
| Dr. Kristin Showalter Sotzen (CoI)         | The Johns Hopkins University Applied Physics Laboratory        |
| Dr. Jeff A. Valenti (CoI)                  | Space Telescope Science Institute                              |
| Dr. Hannah Wakeford (CoI) (ESA Member)     | University of Bristol  |
| Dr. Rebecca G. Martin (CoI) (US Admin CoI) | University of Nevada - Las Vegas                               |

**OBSERVATIONS**

| <i>Folder</i> | <i>Observation</i> | <i>Label</i>      | <i>Observing Template</i>                  | <i>Science Target</i> |
|---------------|--------------------|-------------------|--|-----------------------|
| LTT-1445Ac    |                    |                   |  |                       |
|               | 11                 | NIRISS-Transit-1  | NIRISS Single-Object Slitless Spectroscopy | (1) LTT-1445A         |
|               | 12                 | NIRISS-Transit-2  | NIRISS Single-Object Slitless Spectroscopy | (1) LTT-1445A         |
|               | 13                 | NIRSpec-Transit-1 | NIRSpec Bright Object Time Series          | (1) LTT-1445A         |
|               | 14                 | NIRSpec-Transit-2 | NIRSpec Bright Object Time Series          | (1) LTT-1445A         |
|               | 15                 | NIRISS-Offset0    | NIRISS Single-Object Slitless Spectroscopy | (1) LTT-1445A         |
|               | 16                 | NIRISS-Offset18   | NIRISS Single-Object Slitless Spectroscopy | (1) LTT-1445A         |
| LTT-1445Ab    |                    |                   |  |                       |
|               | 1                  | NIRISS-Transit-1  | NIRISS Single-Object Slitless Spectroscopy | (1) LTT-1445A         |
|               | 2                  | NIRISS-Transit-2  | NIRISS Single-Object Slitless Spectroscopy | (1) LTT-1445A         |
|               | 3                  | NIRSpec-Transit-1 | NIRSpec Bright Object Time Series          | (1) LTT-1445A         |
|               | 4                  | NIRISS-Offset12   | NIRISS Single-Object Slitless Spectroscopy | (1) LTT-1445A         |
| LHS-1140c     |                    |                   |  |                       |
|               | 31                 | NIRISS-Transit-1  | NIRISS Single-Object Slitless Spectroscopy | (2) LHS-1140          |
|               | 32                 | NIRSpec-Transit-1 | NIRSpec Bright Object Time Series          | (2) LHS-1140          |
|               | 33                 | NIRSpec-Transit-2 | NIRSpec Bright Object Time Series          | (2) LHS-1140          |
| LHS-1140b     |                    |                   |  |                       |
|               | 21                 | NIRISS-Transit-1  | NIRISS Single-Object Slitless Spectroscopy | (2) LHS-1140          |
|               | 22                 | NIRISS-Transit-2  | NIRISS Single-Object Slitless Spectroscopy | (2) LHS-1140          |
|               | 23                 | NIRISS-Transit-3  | NIRISS Single-Object Slitless Spectroscopy | (2) LHS-1140          |
|               | 24                 | NIRSpec-Transit-1 | NIRSpec Bright Object Time Series          | (2) LHS-1140          |
|               | 25                 | NIRSpec-Transit-2 | NIRSpec Bright Object Time Series          | (2) LHS-1140          |
|               | 26                 | NIRSpec-Transit-3 | NIRSpec Bright Object Time Series          | (2) LHS-1140          |
| LP-890-9b     |                    |                   |  |                       |
|               | 41                 | Transit-1         | NIRSpec Bright Object Time Series          | (4) LP-890-9          |
|               | 42                 | Transit-2         | NIRSpec Bright Object Time Series          | (4) LP-890-9          |
|               | 43                 | Transit-3         | NIRSpec Bright Object Time Series          | (4) LP-890-9          |
|               | 44                 | Transit-4         | NIRSpec Bright Object Time Series          | (4) LP-890-9          |
|               | 45                 | Transit-5         | NIRSpec Bright Object Time Series          | (4) LP-890-9          |
|               | 46                 | Transit-6         | NIRSpec Bright Object Time Series          | (4) LP-890-9          |

JWST Proposal 7073 (Created: Wednesday, December 3, 2025, 9:00:22AM Eastern Standard Time) - Overview

| <i>Folder</i> | <i>Observation</i> | <i>Label</i>                  | <i>Observing Template</i>         | <i>Science Target</i> |
|---------------|--------------------|-------------------------------|-----------------------------------|-----------------------|
|               | 47                 | Transit-7                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 48                 | Transit-8                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
| LP-890-9c     |                    |                               |                                   |                       |
|               | 51                 | Transit-1                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 52                 | Transit-2                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 53                 | Transit-3                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 54                 | Transit-4                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 55                 | Transit-5                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 56                 | Transit-6                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 57                 | Transit-7                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 58                 | Transit-8                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 59                 | Transit-9                     | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 60                 | Transit-10                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 61                 | Transit-11                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 62                 | Transit-12                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 63                 | Transit-13                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 64                 | Transit-14                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 65                 | Transit-15                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 66                 | Transit-16                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 67                 | Transit-17                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 77                 | Transit-17 - Repeat of Obs 67 | NIRSpec Bright Object Time Series | (4) LP-890-9          |
|               | 68                 | Transit-18                    | NIRSpec Bright Object Time Series | (4) LP-890-9          |

**ABSTRACT**

Measuring the prevalence and diversity of M-dwarf rocky exoplanet atmospheres stands to be one of JWST's lasting legacies. However, the detection of secondary atmospheres remains elusive. In hindsight, this should not come as a surprise, since none of the rocky planet transit observations to date are sensitive to Earth-like (i.e., N<sub>2</sub>-rich) atmospheres. Furthermore, the overwhelming majority of these planets are not expected to have atmospheres based on solar system trends. Coined the "cosmic shoreline," this hypothesized trend stems from an empirical division between bodies with and without atmospheres, yet early JWST measurements imply a strong stellar dependence to the cosmic shoreline when extended down to M-dwarf systems. Thus, we are at an inflection point where, despite past investments, many questions remain unanswered: (1) Do temperate M-dwarf rocky

planets possess high mean molecular weight atmospheres? (2) Where is the cosmic shoreline located within a given multi-planet system? (3) How does the presence of atmospheres correlate with stellar type?

This program will answer these questions by targeting six temperate exoplanets across three M-dwarf subtypes to enable comparisons between rocky planets with similar formation, migration, and stellar evolutionary histories. Our focused NIRISS and NIRSpec observations will yield 1-5  $\mu\text{m}$  transmission spectra with sufficient precision to robustly detect N<sub>2</sub>-rich atmospheres, thus greatly outperforming past programs and complementing the Rocky Worlds DDT program. Ultimately, this study will constrain how stellar type sculpts the cosmic shoreline and provide transformative insights in comparative planetology.

### **OBSERVING DESCRIPTION**

We proposed to observe six rocky exoplanets from three multi-planet, M-dwarf systems (LTT 1445A, LHS 1140, and LP 890-9).

By obtaining multiple transits per planet with NIRISS SOSS and/or NIRSpec G395/PRISM, we will have the sensitivity and wavelength coverage to detect absorption from H<sub>2</sub>O, CH<sub>4</sub>, and CO<sub>2</sub> in multiple bands. Our brightest system (LTT 1445A) will use the SUBSTRIP96 subarray to mitigate saturation and, thus, will only capture Order 1 (0.8 -- 2.8 microns). LHS 1140 will use the SUBSTRIP256 subarray to capture both Orders 1 and 2 (0.6 - 2.8 microns). The faintest system (LP 890-9) will use NIRSpec PRISM.

We've used PandExo to optimize the number of groups and integrations for each planet in such a way that maximized SNR and avoids saturation. Phase constraints ensure that we will monitor the system before, during, and after each transit/eclipse event. For systems using the NIRISS instrument, we apply position angle (PA) constraints to avoid contamination from neighboring stars. We will work with STScI to find a suitable TA star for LTT 1445A or use blind pointing for those observations.

# Proposal 7073 - Targets - Charting the Cosmic Shoreline

| #  | Name   | Target Coordinates  | Targ. Coord. Corrections  | Miscellaneous   |
|--|--|---|---|---|
| Fixed Targets  | (1)  | LTT-1445A   | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000                                   | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000          |
|  | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>           Category=Star<br/>           Description=[Exoplanet Systems, M dwarfs]<br/>           Extended=NO</p>   |   |   |   |
|  | (2)  | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000                                   | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000           |
|  | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i><br/>           Category=Star<br/>           Description=[Exoplanet Systems, M dwarfs]<br/>           Extended=NO</p> |   |   |   |
|  | (4)  | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000                                   | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i><br/>           Category=Star<br/>           Description=[Exoplanet Systems, M dwarfs]<br/>           Extended=NO</p> |  |   |   |   |
| (5)  | TA-LHS-1140  | RA: 00 44 59.1757 (11.2465654d)<br>Dec: -15 16 14.22 (-15.27062d)<br>Equinox: J2000 | Proper Motion RA: 38.761 mas/yr<br>Proper Motion Dec: 9.812 mas/yr<br>Parallax: 0.0031324"<br>Epoch of Position: 2000 |   |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i><br/>           Category=Star<br/>           Description=[Exoplanets]<br/>           Extended=NO</p>                  |  |   |   |   |

## Proposal 7073 - Targets - Charting the Cosmic Shoreline

(6) TA-LTT1445A RA: 03 01 48.4980 (45.4520750d) Proper Motion RA: 0 mas/yr  
Dec: -16 35 32.24 (-16.59229d) Proper Motion Dec: 0 mas/yr  
Equinox: J2000 Epoch of Position: 2022.934

*Comments: Using the Gaia DR2 rb magnitude and the i band for SDSS in the ETC*

*<https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fb3b4764d6c&-out.add=.&-source=I/345/gaia2&-c=045.48826076100%20-16.56835867349,eq=ICRS,rs=2&-out.orig=o>*

*DR2: Gaia DR2 5153093450979433856*

*Alternate target: 2MASS 03015532-1638189*

*But this will saturate 4 pixels using the MSATA setting needed to widen the area*

*<https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fb2face0354&-out.add=.&-source=II/246/out&2MASS===03015532-1638189>*

*Based on the following email from STScI's Nikolay Nikolov 10/21 at 10:57AM, we have followed this suggestion to not use APT values until we have been notified that APT has been corrected.*

*Dear Johanna,*

*Thanks for reaching out.*

*I also noticed a discrepancy between the APT retrieved coordinates and the SIMBAD values, as well as missing parameters e.g., parallax and proper motions in some case. This has been brought to the attention of the APT experts and I hope to have more details to share soon.*

*My recommendation would be: copy by hand the full information including, R.A., DEC, proper motion, Epoch and parallax reported in the latest Gaia catalog and double check for copy and unit conversion errors. Definitions of the individual parameters are provided by clicking on the parameter.*

*Best Wishes,  
Nikolay*

*UPDATE 2023-03-24 to updated coordinates measured from NIRCcam observations of TA star (AllWISE J030148.40-163532.7).*

*Category=Unidentified*

*Description=[Infrared sources]*

# Proposal 7073 - Observation 11 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 11: NIRISS-Transit-1</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|--------------------------|--|---|--|--------------------------|--------------------------|--|--------------------|---------------------|---|--|-----------------|--|------|------------|-------|----------|----|-------|---|-------|----------|---|------|---|---|------|-----------|--------|---|----------|---|----|---|---|----|--------|--------|--|--|--|--|--|--|--|--|--|
|                          | (NIRISS-Transit-1 (Obs 11)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Diagnosics</b>        |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT-1445A</td> <td>RA: 03 01 51.3937 (45.4641404d)<br/>Dec: -16 35 36.03 (-16.59334d)<br/>Equinox: J2000</td> <td>Proper Motion RA: -369.972 mas/yr<br/>Proper Motion Dec: -267.931 mas/yr<br/>Parallax: 0.1456922"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>  | #   | Name   | Target Coordinates       | Targ. Coord. Corrections | Miscellaneous                                    | (1)                | LTT-1445A           | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                 | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                     Category=Star<br/>                     Description=[Exoplanet Systems, M dwarfs]<br/>                     Extended=NO</p> |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Name  | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous            |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| (1)                      | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSBRIGHT</td> <td>F480M</td> <td>NISRAPID</td> <td>11</td> <td>1</td> <td>1</td> <td>0.566</td> <td>172682</td> </tr> </tbody> </table>   | #   | Target   | Acquisition Mode         | Filter                   | Readout Pattern                                  | Groups/Int         | Integrations/Exp    | Total Integrations  | Total Exposure Time  | Optional ETC ID | 1  | SAME | SOSSBRIGHT | F480M | NISRAPID | 11 | 1     | 1 | 0.566 | 172682   |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Target  | Acquisition Mode   | Filter                   | Readout Pattern          | Groups/Int                                       | Integrations/Exp   | Total Integrations  | Total Exposure Time   | Optional ETC ID  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| 1                        | SAME   | SOSSBRIGHT  | F480M  | NISRAPID                 | 11                       | 1  | 1                  | 0.566               | 172682  |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Template</b>          | Subarray   |   |  |                          |                          | Include Short First Exposure and F277W Exposure? |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | SUBSTRIP96   |   |  |                          |                          | true   |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NISRAPID</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>4.448</td> <td></td> </tr> <tr> <td>2</td> <td>NISRAPID</td> <td>3</td> <td>1424</td> <td>1</td> <td>1</td> <td>1424</td> <td>12640.108</td> <td>172682</td> </tr> <tr> <td>3</td> <td>NISRAPID</td> <td>3</td> <td>10</td> <td>1</td> <td>1</td> <td>10</td> <td>88.765</td> <td>172682</td> </tr> </tbody> </table> | #   | Readout Pattern  | Groups/Int               | Integrations/Exp         | Exposures/Dith                                   | Total Dithers      | Total Integrations  | Total Exposure Time   | Optional ETC ID  | 1               | NISRAPID   | 1    | 1          | 1     | 1        | 1  | 4.448 |   | 2     | NISRAPID | 3 | 1424 | 1 | 1 | 1424 | 12640.108 | 172682 | 3 | NISRAPID | 3 | 10 | 1 | 1 | 10 | 88.765 | 172682 |  |  |  |  |  |  |  |  |  |
|                          | #  | Readout Pattern   | Groups/Int   | Integrations/Exp         | Exposures/Dith           | Total Dithers                                    | Total Integrations | Total Exposure Time | Optional ETC ID   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | 1  | NISRAPID  | 1  | 1                        | 1                        | 1  | 1                  | 4.448               |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | 2  | NISRAPID  | 3  | 1424                     | 1                        | 1  | 1424               | 12640.108           | 172682  |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| 3                        | NISRAPID   | 3   | 10   | 1                        | 1                        | 10   | 88.765             | 172682              |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |

## Proposal 7073 - Observation 11 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.96992 to 0.98325 with period 3.1239035 Days and zero-phase 2458412.58159 HJD  
Aperture PA Range 72 to 80 Degrees (V3 71.43873283 to 79.43873283)  
Offset 12.408 arcsec, 0.0 arcsec  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 12 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>   | <b>Proposal 7073, Observation 12: NIRISS-Transit-2</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy   |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
|--|---|--|--|--------------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|--------|--------------------|--------------------------|------------------|----------------|------------------|--------------------|---------------------|-----------------|-----|-----------|---|--|----------|----|---|-------|-------|--------|--|---|------|---|---|------|-----------|--------|---|----------|---|----|---|---|----|--------|
|  | (NIRISS-Transit-2 (Obs 12)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| <b>Diagnosics</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="3">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT-1445A</td> <td>RA: 03 01 51.3937 (45.4641404d)<br/>Dec: -16 35 36.03 (-16.59334d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: -369.972 mas/yr<br/>Proper Motion Dec: -267.931 mas/yr<br/>Parallax: 0.1456922"<br/>Epoch of Position: 2000</td> <td colspan="3"></td> </tr> <tr> <td colspan="10"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br/> <i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/> <i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i> </td> </tr> </tbody> </table> |  |  |                          |                 |               |                    |                     |                     |                 | # | Name   | Target Coordinates | Targ. Coord. Corrections |                  |                |                  | Miscellaneous      |                     |                 | (1) | LTT-1445A | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |          |    |   |       |       |        | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br><i>Added parallax manually using Simbad</i><br><a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br><i>Category=Star</i><br><i>Description=[Exoplanet Systems, M dwarfs]</i><br><i>Extended=NO</i> |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
|  | #   | Name   | Target Coordinates   | Targ. Coord. Corrections |                 |               |                    | Miscellaneous       |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| (1)  | LTT-1445A   | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000  | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br><i>Added parallax manually using Simbad</i><br><a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br><i>Category=Star</i><br><i>Description=[Exoplanet Systems, M dwarfs]</i><br><i>Extended=NO</i> |   |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| <b>Fixed Targets</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSBRIGHT</td> <td>F480M</td> <td>NISRAPID</td> <td>11</td> <td>1</td> <td>1</td> <td>0.566</td> <td>172682</td> </tr> </tbody> </table>  |  |  |                          |                 |               |                    |                     |                     |                 | # | Target | Acquisition Mode   | Filter                   | Readout Pattern  | Groups/Int     | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | 1   | SAME      | SOSSBRIGHT  | F480M  | NISRAPID | 11 | 1 | 1     | 0.566 | 172682 |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
|  | #   | Target   | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| 1  | SAME  | SOSSBRIGHT   | F480M  | NISRAPID                 | 11              | 1             | 1                  | 0.566               | 172682              |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| <b>Acquisition</b>   | Subarray <span style="float: right;">Include Short First Exposure and F277W Exposure?</span><br>SUBSTRIP96 <span style="float: right;">true</span>  |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
|  | <b>Template</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NISRAPID</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>4.448</td> <td></td> </tr> <tr> <td>2</td> <td>NISRAPID</td> <td>3</td> <td>1424</td> <td>1</td> <td>1</td> <td>1424</td> <td>12640.108</td> <td>172682</td> </tr> <tr> <td>3</td> <td>NISRAPID</td> <td>3</td> <td>10</td> <td>1</td> <td>1</td> <td>10</td> <td>88.765</td> <td>172682</td> </tr> </tbody> </table> |  |                          |                 |               |                    |                     |                     |                 |   | #      | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith | Total Dithers    | Total Integrations | Total Exposure Time | Optional ETC ID | 1   | NISRAPID  | 1   | 1  | 1        | 1  | 1 | 4.448 |       | 2      | NISRAPID   | 3 | 1424 | 1 | 1 | 1424 | 12640.108 | 172682 | 3 | NISRAPID | 3 | 10 | 1 | 1 | 10 | 88.765 |
| #  |   | Readout Pattern  | Groups/Int   | Integrations/Exp         | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| 1  |   | NISRAPID   | 1  | 1                        | 1               | 1             | 1                  | 4.448               |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| 2  |   | NISRAPID   | 3  | 1424                     | 1               | 1             | 1424               | 12640.108           | 172682              |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| 3  | NISRAPID  | 3  | 10   | 1                        | 1               | 10            | 88.765             | 172682              |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
| <b>Spectral Elements</b>   |   |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
|  |   |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
|  |   |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |
|  |   |  |  |                          |                 |               |                    |                     |                     |                 |   |        |                    |                          |                  |                |                  |                    |                     |                 |     |           |   |  |          |    |   |       |       |        |  |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |

## Proposal 7073 - Observation 12 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.96992 to 0.98325 with period 3.1239035 Days and zero-phase 2458412.58159 HJD  
Aperture PA Range 72 to 80 Degrees (V3 71.43873283 to 79.43873283)  
Offset 12.408 arcsec, 0.0 arcsec  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 13 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

|                             |  |                       |   |                   |                         |  |                      |                           |                            |                        |
|-----------------------------|--|-----------------------|---|-------------------|-------------------------|--|----------------------|---------------------------|----------------------------|------------------------|
| <b>Observation</b>          | <p><b>Proposal 7073, Observation 13: NIRSpec-Transit-1</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |                       |   |                   |                         |  |                      |                           |                            |                        |
| <b>Diagnostics</b>          | <p>(NIRSpec-Transit-1 (Obs 13)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>   |                       |   |                   |                         |  |                      |                           |                            |                        |
| <b>Fixed Targets</b>        | <b>#</b>   | <b>Name</b>           | <b>Target Coordinates</b>   |                   |                         | <b>Targ. Coord. Corrections</b>  |                      |                           | <b>Miscellaneous</b>       |                        |
|                             | (1)  | LTT-1445A             | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 |                   |                         | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                      |                           |                            |                        |
|                             | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                     Category=Star<br/>                     Description=[Exoplanet Systems, M dwarfs]<br/>                     Extended=NO</p> |                       |   |                   |                         |  |                      |                           |                            |                        |
| <b>Template</b>             | <b>TA Method</b>   |                       |   |                   |                         | <b>Subarray</b>  |                      |                           |                            |                        |
|                             | NONE   |                       |   |                   |                         | SUB2048  |                      |                           |                            |                        |
| <b>Spectral Elements</b>    | <b>#</b>   | <b>Grating/Filter</b> | <b>Readout Pattern</b>  | <b>Groups/Int</b> | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>Optional ETC ID</b> |
|                             | 1  | G395H/F290LP          | NRSRAPID  | 3                 | 3493                    | 1  | 1                    | 3493                      | 12674.281                  |                        |
| <b>Special Requirements</b> | <p>Before Date 01-OCT-2025:00:00:00<br/>                     Phase 0.96992 to 0.98325 with period 3.1239035 Days and zero-phase 2458412.58159 HJD<br/>                     Time Series Observation<br/>                     No Parallel Attachments</p> <p>Sequence Observations 15, 16, 13 (reordered), Non-interruptible</p>   |                       |   |                   |                         |  |                      |                           |                            |                        |

# Proposal 7073 - Observation 14 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

|                          |  |                       |   |                   |                         |  |                      |                           |                            |                            |                        |
|--------------------------|--|-----------------------|---|-------------------|-------------------------|--|----------------------|---------------------------|----------------------------|----------------------------|------------------------|
| <b>Observation</b>       | <p><b>Proposal 7073, Observation 14: NIRSpec-Transit-2</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |                       |   |                   |                         |  |                      |                           |                            |                            |                        |
| <b>Diagnostics</b>       | <p>(NIRSpec-Transit-2 (Obs 14)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(NIRSpec-Transit-2 (Obs 14)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>   |                       |   |                   |                         |  |                      |                           |                            |                            |                        |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>           | <b>Target Coordinates</b>   |                   |                         | <b>Targ. Coord. Corrections</b>  |                      |                           | <b>Miscellaneous</b>       |                            |                        |
|                          | (1)  | LTT-1445A             | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 |                   |                         | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                      |                           |                            |                            |                        |
|                          | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                     Category=Star<br/>                     Description=[Exoplanet Systems, M dwarfs]<br/>                     Extended=NO</p> |                       |   |                   |                         |  |                      |                           |                            |                            |                        |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>         | <b>TA Method</b>  | <b>Subarray</b>   | <b>Filter</b>           | <b>Readout Pattern</b>   | <b>Groups/Int</b>    | <b>Integrations/Exp</b>   | <b>Total Integrations</b>  | <b>Total Exposure Time</b> | <b>Optional ETC ID</b> |
|                          | 1  | 6 TA-LTT1445A         | WATA  | SUB32             | CLEAR                   | NRSRAPID   | 3                    | 1                         | 1                          | 0.08                       |                        |
| <b>Template</b>          | <p>Subarray</p> <p>SUB2048</p>   |                       |   |                   |                         |  |                      |                           |                            |                            |                        |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b> | <b>Readout Pattern</b>  | <b>Groups/Int</b> | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>Optional ETC ID</b>     |                        |
|                          | 1  | G395H/F290LP          | NRSRAPID  | 3                 | 3493                    | 1  | 1                    | 3493                      | 12674.281                  |                            |                        |

## Proposal 7073 - Observation 14 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.96992 to 0.98325 with period 3.1239035 Days and zero-phase 2458412.58159 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 15 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 15: NIRISS-Offset0</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy  |   |  |                 |               |  |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
|--------------------------|--|---|--|-----------------|---------------|--|---------------------|---------------------|-----------------|--|---|-----------------|--------------------|--------------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|----------|------|------------|---|--|----|--------|--------|-------|--------|--|--|
| <b>Diagnostics</b>       | (Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |  |                 |               |  |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT-1445A</td> <td>RA: 03 01 51.3937 (45.4641404d)<br/>Dec: -16 35 36.03 (-16.59334d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: -369.972 mas/yr<br/>Proper Motion Dec: -267.931 mas/yr<br/>Parallax: 0.1456922"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                 Category=Star<br/>                 Description=[Exoplanet Systems, M dwarfs]<br/>                 Extended=NO</p> |   |  |                 |               |  |                     |                     |                 |  | # | Name            | Target Coordinates | Targ. Coord. Corrections |                 |               |                    | Miscellaneous       |                     |                 |          | (1)  | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |    |        |        |       |        |  |  |
| #                        | Name   | Target Coordinates  | Targ. Coord. Corrections   |                 |               |  | Miscellaneous       |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
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| #                        | Target   | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int    | Integrations/Exp                                 | Total Integrations  | Total Exposure Time | Optional ETC ID |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| 1                        | SAME   | SOSSBRIGHT  | F480M  | NISRAPID        | 11            | 1  | 1                   | 0.566               | 172682          |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| <b>Template</b>          | Subarray   |   |  |                 |               | Include Short First Exposure and F277W Exposure? |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
|                          | SUBSTRIP96   |   |  |                 |               | false  |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
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| #                        | Readout Pattern  | Groups/Int  | Integrations/Exp   | Exposures/Dith  | Total Dithers | Total Integrations                               | Total Exposure Time | Optional ETC ID     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| 1                        | NISRAPID   | 3   | 10   | 1               | 1             | 10   | 88.765              | 172682              |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |

## Proposal 7073 - Observation 15 - Charting the Cosmic Shoreline

### Special Requirements

Time Series Observation  
No Parallel Attachments

Sequence Observations 15, 16, 13 (reordered), Non-interruptible

# Proposal 7073 - Observation 16 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 16: NIRISS-Offset18</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy   |   |  |                 |               |  |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
|--------------------------|--|---|--|-----------------|---------------|--|---------------------|---------------------|-----------------|--|---|-----------------|--------------------|--------------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|----------|------|------------|---|--|----|--------|--------|-------|--------|--|--|
| <b>Diagnostics</b>       | (Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |  |                 |               |  |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT-1445A</td> <td>RA: 03 01 51.3937 (45.4641404d)<br/>Dec: -16 35 36.03 (-16.59334d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: -369.972 mas/yr<br/>Proper Motion Dec: -267.931 mas/yr<br/>Parallax: 0.1456922"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                 Category=Star<br/>                 Description=[Exoplanet Systems, M dwarfs]<br/>                 Extended=NO</p> |   |  |                 |               |  |                     |                     |                 |  | # | Name            | Target Coordinates | Targ. Coord. Corrections |                 |               |                    | Miscellaneous       |                     |                 |          | (1)  | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |    |        |        |       |        |  |  |
| #                        | Name   | Target Coordinates  | Targ. Coord. Corrections   |                 |               |  | Miscellaneous       |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| (1)                      | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                 |               |  |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
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| #                        | Target   | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int    | Integrations/Exp                                 | Total Integrations  | Total Exposure Time | Optional ETC ID |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| 1                        | SAME   | SOSSBRIGHT  | F480M  | NISRAPID        | 11            | 1  | 1                   | 0.566               | 172682          |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| <b>Template</b>          | Subarray   |   |  |                 |               | Include Short First Exposure and F277W Exposure? |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
|                          | SUBSTRIP96   |   |  |                 |               | false  |                     |                     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
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| #                        | Readout Pattern  | Groups/Int  | Integrations/Exp   | Exposures/Dith  | Total Dithers | Total Integrations                               | Total Exposure Time | Optional ETC ID     |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |
| 1                        | NISRAPID   | 3   | 10   | 1               | 1             | 10   | 88.765              | 172682              |                 |  |   |                 |                    |                          |                 |               |                    |                     |                     |                 |          |      |            |   |  |    |        |        |       |        |  |  |

## Proposal 7073 - Observation 16 - Charting the Cosmic Shoreline

### Special Requirements

Offset 17.886 arcsec, 0.0 arcsec  
Time Series Observation  
No Parallel Attachments

Sequence Observations 15, 16, 13 (reordered), Non-interruptible

# Proposal 7073 - Observation 1 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 1: NIRISS-Transit-1</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy   |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|--------------------------|--|---|--|--------------------------|--------------------------|--|--------------------|---------------------|---------------------|---------------------|-----------------|----------|------|------------|---|--|----|-------|---|-------|----------|---|------|--|---|------|-----------|--------|---|----------|---|----|---|---|----|--------|--------|--|--|--|--|--|--|--|--|--|
|                          | (NIRISS-Transit-1 (Obs 1)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Diagnosics</b>        |  |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT-1445A</td> <td>RA: 03 01 51.3937 (45.4641404d)<br/>Dec: -16 35 36.03 (-16.59334d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: -369.972 mas/yr<br/>Proper Motion Dec: -267.931 mas/yr<br/>Parallax: 0.1456922"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table>  | #   | Name   | Target Coordinates       | Targ. Coord. Corrections |  |                    |                     | Miscellaneous       |                     |                 |          | (1)  | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |    |       |   |       |          |   |      | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                     Category=Star<br/>                     Description=[Exoplanet Systems, M dwarfs]<br/>                     Extended=NO</p> |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Name  | Target Coordinates   | Targ. Coord. Corrections |                          |  |                    | Miscellaneous       |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| (1)                      | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
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|                          | #  | Target  | Acquisition Mode   | Filter                   | Readout Pattern          | Groups/Int                                       | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| 1                        | SAME   | SOSSBRIGHT  | F480M  | NISRAPID                 | 11                       | 1  | 1                  | 0.566               | 172682              |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Template</b>          | Subarray   |   |  |                          |                          | Include Short First Exposure and F277W Exposure? |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | SUBSTRIP96   |   |  |                          |                          | true   |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
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|                          | #  | Readout Pattern   | Groups/Int   | Integrations/Exp         | Exposures/Dith           | Total Dithers                                    | Total Integrations | Total Exposure Time | Optional ETC ID     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | 1  | NISRAPID  | 1  | 1                        | 1                        | 1  | 1                  | 4.448               |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | 2  | NISRAPID  | 3  | 1776                     | 1                        | 1  | 1776               | 15764.628           | 172682              |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| 3                        | NISRAPID   | 3   | 10   | 1                        | 1                        | 10   | 88.765             | 172682              |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |                     |                     |                 |          |      |            |   |  |    |       |   |       |          |   |      |  |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |

## Proposal 7073 - Observation 1 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.97909 to 0.98687 with period 5.358765 Days and zero-phase 2458423.426378 HJD  
Aperture PA Range 72 to 80 Degrees (V3 71.43873283 to 79.43873283)  
Offset 12.408 arcsec, 0.0 arcsec  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 2 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 2: NIRISS-Transit-2</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy   |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|--------------------------|--|---|--|--------------------------|--------------------------|--|--------------------|---------------------|---|--|-----------------|--|------|------------|-------|----------|----|-------|---|-------|----------|---|------|---|---|------|-----------|--------|---|----------|---|----|---|---|----|--------|--------|--|--|--|--|--|--|--|--|--|
|                          | (NIRISS-Transit-2 (Obs 2)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Diagnosics</b>        |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT-1445A</td> <td>RA: 03 01 51.3937 (45.4641404d)<br/>Dec: -16 35 36.03 (-16.59334d)<br/>Equinox: J2000</td> <td>Proper Motion RA: -369.972 mas/yr<br/>Proper Motion Dec: -267.931 mas/yr<br/>Parallax: 0.1456922"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>  | #   | Name   | Target Coordinates       | Targ. Coord. Corrections | Miscellaneous                                    | (1)                | LTT-1445A           | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                 | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                     Category=Star<br/>                     Description=[Exoplanet Systems, M dwarfs]<br/>                     Extended=NO</p> |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Name  | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous            |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| (1)                      | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSBRIGHT</td> <td>F480M</td> <td>NISRAPID</td> <td>11</td> <td>1</td> <td>1</td> <td>0.566</td> <td>172682</td> </tr> </tbody> </table>   | #   | Target   | Acquisition Mode         | Filter                   | Readout Pattern                                  | Groups/Int         | Integrations/Exp    | Total Integrations  | Total Exposure Time  | Optional ETC ID | 1  | SAME | SOSSBRIGHT | F480M | NISRAPID | 11 | 1     | 1 | 0.566 | 172682   |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Target  | Acquisition Mode   | Filter                   | Readout Pattern          | Groups/Int                                       | Integrations/Exp   | Total Integrations  | Total Exposure Time   | Optional ETC ID  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| 1                        | SAME   | SOSSBRIGHT  | F480M  | NISRAPID                 | 11                       | 1  | 1                  | 0.566               | 172682  |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Template</b>          | Subarray   |   |  |                          |                          | Include Short First Exposure and F277W Exposure? |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | SUBSTRIP96   |   |  |                          |                          | true   |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NISRAPID</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>4.448</td> <td></td> </tr> <tr> <td>2</td> <td>NISRAPID</td> <td>3</td> <td>1776</td> <td>1</td> <td>1</td> <td>1776</td> <td>15764.628</td> <td>172682</td> </tr> <tr> <td>3</td> <td>NISRAPID</td> <td>3</td> <td>10</td> <td>1</td> <td>1</td> <td>10</td> <td>88.765</td> <td>172682</td> </tr> </tbody> </table> | #   | Readout Pattern  | Groups/Int               | Integrations/Exp         | Exposures/Dith                                   | Total Dithers      | Total Integrations  | Total Exposure Time   | Optional ETC ID  | 1               | NISRAPID   | 1    | 1          | 1     | 1        | 1  | 4.448 |   | 2     | NISRAPID | 3 | 1776 | 1 | 1 | 1776 | 15764.628 | 172682 | 3 | NISRAPID | 3 | 10 | 1 | 1 | 10 | 88.765 | 172682 |  |  |  |  |  |  |  |  |  |
|                          | #  | Readout Pattern   | Groups/Int   | Integrations/Exp         | Exposures/Dith           | Total Dithers                                    | Total Integrations | Total Exposure Time | Optional ETC ID   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | 1  | NISRAPID  | 1  | 1                        | 1                        | 1  | 1                  | 4.448               |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          | 2  | NISRAPID  | 3  | 1776                     | 1                        | 1  | 1776               | 15764.628           | 172682  |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
| 3                        | NISRAPID   | 3   | 10   | 1                        | 1                        | 10   | 88.765             | 172682              |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |  |                          |                          |  |                    |                     |   |  |                 |  |      |            |       |          |    |       |   |       |          |   |      |   |   |      |           |        |   |          |   |    |   |   |    |        |        |  |  |  |  |  |  |  |  |  |

## Proposal 7073 - Observation 2 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.97909 to 0.98687 with period 5.358765 Days and zero-phase 2458423.426378 HJD  
Aperture PA Range 72 to 80 Degrees (V3 71.43873283 to 79.43873283)  
Offset 12.408 arcsec, 0.0 arcsec  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 3 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

|                             |  |                       |   |                   |                         |  |                      |                           |                            |                        |
|-----------------------------|--|-----------------------|---|-------------------|-------------------------|--|----------------------|---------------------------|----------------------------|------------------------|
| <b>Observation</b>          | <p><b>Proposal 7073, Observation 3: NIRSpec-Transit-1</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |                       |   |                   |                         |  |                      |                           |                            |                        |
| <b>Diagnostics</b>          | <p>(NIRSpec-Transit-1 (Obs 3)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>   |                       |   |                   |                         |  |                      |                           |                            |                        |
| <b>Fixed Targets</b>        | <b>#</b>   | <b>Name</b>           | <b>Target Coordinates</b>   |                   |                         | <b>Targ. Coord. Corrections</b>  |                      |                           | <b>Miscellaneous</b>       |                        |
|                             | (1)  | LTT-1445A             | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 |                   |                         | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                      |                           |                            |                        |
|                             | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                     Category=Star<br/>                     Description=[Exoplanet Systems, M dwarfs]<br/>                     Extended=NO</p> |                       |   |                   |                         |  |                      |                           |                            |                        |
| <b>Template</b>             | <b>TA Method</b>   |                       |   |                   |                         | <b>Subarray</b>  |                      |                           |                            |                        |
|                             | NONE   |                       |   |                   |                         | SUB2048  |                      |                           |                            |                        |
| <b>Spectral Elements</b>    | <b>#</b>   | <b>Grating/Filter</b> | <b>Readout Pattern</b>  | <b>Groups/Int</b> | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>Optional ETC ID</b> |
|                             | 1  | G395H/F290LP          | NRSRAPID  | 3                 | 4343                    | 1  | 1                    | 4343                      | 15758.489                  |                        |
| <b>Special Requirements</b> | <p>Phase 0.97909 to 0.98687 with period 5.358765 Days and zero-phase 2458423.426378 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Sequence Observations 4, 3 (reordered), Non-interruptible</p>   |                       |   |                   |                         |  |                      |                           |                            |                        |

# Proposal 7073 - Observation 4 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 4: NIRISS-Offset12</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy  |   |  |                 |               |                    |                     |                     |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
|--------------------------|--|---|--|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|--|----------|--|--------------------|--------------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------|-----------|---|--|----------|----|--------|--------|-------|--------|--|
| <b>Diagnostics</b>       | (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |  |                 |               |                    |                     |                     |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT-1445A</td> <td>RA: 03 01 51.3937 (45.4641404d)<br/>Dec: -16 35 36.03 (-16.59334d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: -369.972 mas/yr<br/>Proper Motion Dec: -267.931 mas/yr<br/>Parallax: 0.1456922"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Added parallax manually using Simbad</i><br/> <a href="https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search">https://simbad.u-strasbg.fr/simbad/sim-basic?Ident=LTT+1445A&amp;submit=SIMBAD+search</a><br/>                 Category=Star<br/>                 Description=[Exoplanet Systems, M dwarfs]<br/>                 Extended=NO</p> |   |  |                 |               |                    |                     |                     |                 |  | #        | Name   | Target Coordinates | Targ. Coord. Corrections |                 |               |                    | Miscellaneous       |                     |                 |   | (1)      | LTT-1445A | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |          |    |        |        |       |        |  |
| #                        | Name   | Target Coordinates  | Targ. Coord. Corrections   |                 |               |                    | Miscellaneous       |                     |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| (1)                      | LTT-1445A  | RA: 03 01 51.3937 (45.4641404d)<br>Dec: -16 35 36.03 (-16.59334d)<br>Equinox: J2000 | Proper Motion RA: -369.972 mas/yr<br>Proper Motion Dec: -267.931 mas/yr<br>Parallax: 0.1456922"<br>Epoch of Position: 2000 |                 |               |                    |                     |                     |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th colspan="2">Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSBRIGHT</td> <td>F480M</td> <td>NISRAPID</td> <td>11</td> <td>1</td> <td>1</td> <td>0.566</td> <td colspan="2">172682</td> </tr> </tbody> </table>   |   |  |                 |               |                    |                     |                     |                 |  | #        | Target   | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   | 1        | SAME      | SOSSBRIGHT  | F480M  | NISRAPID | 11 | 1      | 1      | 0.566 | 172682 |  |
| #                        | Target   | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| 1                        | SAME   | SOSSBRIGHT  | F480M  | NISRAPID        | 11            | 1                  | 1                   | 0.566               | 172682          |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| <b>Template</b>          | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include Short First Exposure and F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |               |                    |                     |                     |                 |  | Subarray | Include Short First Exposure and F277W Exposure? | SUBSTRIP256        | false                    |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| Subarray                 | Include Short First Exposure and F277W Exposure?   |   |  |                 |               |                    |                     |                     |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| SUBSTRIP256              | false  |   |  |                 |               |                    |                     |                     |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th colspan="2">Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NISRAPID</td> <td>2</td> <td>5</td> <td>1</td> <td>1</td> <td>5</td> <td>82.512</td> <td colspan="2">172682</td> </tr> </tbody> </table>   |   |  |                 |               |                    |                     |                     |                 |  | #        | Readout Pattern                                  | Groups/Int         | Integrations/Exp         | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 | 1 | NISRAPID | 2         | 5   | 1  | 1        | 5  | 82.512 | 172682 |       |        |  |
| #                        | Readout Pattern  | Groups/Int  | Integrations/Exp   | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |
| 1                        | NISRAPID   | 2   | 5  | 1               | 1             | 5                  | 82.512              | 172682              |                 |  |          |  |                    |                          |                 |               |                    |                     |                     |                 |   |          |           |   |  |          |    |        |        |       |        |  |

## Proposal 7073 - Observation 4 - Charting the Cosmic Shoreline

### Special Requirements

Before Date 11-JAN-2026:00:00:00  
Aperture PA Range 62 to 80 Degrees (V3 61.43873283 to 79.43873283)  
Offset 12.408 arcsec, 0.0 arcsec  
Time Series Observation  
No Parallel Attachments  
Sequence Observations 4, 3 (reordered), Non-interruptible

Proposal 7073 - Observation 31 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 31: NIRISS-Transit-1</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|--------------------------|--|---|---|--------------------------|--------------------------|--|--------------------|---------------------|---|---|-----------------|---|------|-----------|-------|----------|----|--------|---|-------|----------|---|-----|---|---|-----|-----------|--------|---|----------|---|----|---|---|----|---------|--------|--|--|--|--|--|--|--|--|--|
|                          | (NIRISS-Transit-1 (Obs 31)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Diagnosics</b>        |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>  | #   | Name  | Target Coordinates       | Targ. Coord. Corrections | Miscellaneous                                    | (2)                | LHS-1140            | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                 | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i></p> |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Name  | Target Coordinates  | Targ. Coord. Corrections | Miscellaneous            |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| (2)                      | LHS-1140   | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>11</td> <td>1</td> <td>1</td> <td>0.566</td> <td>172682</td> </tr> </tbody> </table>  | #   | Target  | Acquisition Mode         | Filter                   | Readout Pattern                                  | Groups/Int         | Integrations/Exp    | Total Integrations  | Total Exposure Time   | Optional ETC ID | 1   | SAME | SOSSFAINT | F480M | NISRAPID | 11 | 1      | 1 | 0.566 | 172682   |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Target  | Acquisition Mode  | Filter                   | Readout Pattern          | Groups/Int                                       | Integrations/Exp   | Total Integrations  | Total Exposure Time   | Optional ETC ID   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| 1                        | SAME   | SOSSFAINT   | F480M   | NISRAPID                 | 11                       | 1  | 1                  | 0.566               | 172682  |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Template</b>          | Subarray   |   |   |                          |                          | Include Short First Exposure and F277W Exposure? |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | SUBSTRIP256  |   |   |                          |                          | true   |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
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|                          | #  | Readout Pattern   | Groups/Int  | Integrations/Exp         | Exposures/Dith           | Total Dithers                                    | Total Integrations | Total Exposure Time | Optional ETC ID   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | 1  | NISRAPID  | 1   | 1                        | 1                        | 1  | 1                  | 11.008              |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | 2  | NISRAPID  | 5   | 450                      | 1                        | 1  | 450                | 14843.016           | 172682  |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| 3                        | NISRAPID   | 6   | 10  | 1                        | 1                        | 10   | 384.785            | 172682              |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |

## Proposal 7073 - Observation 31 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.97171 to 0.98274 with period 3.777940 Days and zero-phase 2458389.2939 HJD  
Aperture PA Range 30 to 50 Degrees (V3 29.43873283 to 49.43873283)  
Aperture PA Range 255 to 280 Degrees (V3 254.43873283 to 279.43873283)  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 32 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 32: NIRSpec-Transit-1</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|--------------|---------------|---|---|-------|----------|------|----------|---|------|--|
| <b>Diagnostics</b>       | <p>(NIRSpec-Transit-1 (Obs 32)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(NIRSpec-Transit-1 (Obs 32)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (2)          | LHS-1140      | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |       |          |      |          |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| (2)                      | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5 TA-LHS-1140</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>   |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1            | 5 TA-LHS-1140 | WATA  | SUB32   | F110W | NRSRAPID | 3    | 1        | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| 1                        | 5 TA-LHS-1140   | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB2048</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395M/F290LP</td> <td>NRSRAPID</td> <td>7</td> <td>2054</td> <td>1</td> <td>1</td> <td>2054</td> <td>14863.73</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | G395M/F290LP | NRSRAPID      | 7   | 2054  | 1     | 1        | 2054 | 14863.73 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| 1                        | G395M/F290LP  | NRSRAPID  | 7   | 2054             | 1               | 1             | 2054               | 14863.73            |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |

## Proposal 7073 - Observation 32 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.97171 to 0.98274 with period 3.777940 Days and zero-phase 2458389.2939 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 33 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 33: NIRSpec-Transit-2</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|--------------|---------------|---|---|-------|----------|------|----------|---|------|--|
| <b>Diagnostics</b>       | <p>(NIRSpec-Transit-2 (Obs 33)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(NIRSpec-Transit-2 (Obs 33)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
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| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| (2)                      | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| 1                        | 5 TA-LHS-1140   | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB2048</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395M/F290LP</td> <td>NRSRAPID</td> <td>7</td> <td>2054</td> <td>1</td> <td>1</td> <td>2054</td> <td>14863.73</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | G395M/F290LP | NRSRAPID      | 7   | 2054  | 1     | 1        | 2054 | 14863.73 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |
| 1                        | G395M/F290LP  | NRSRAPID  | 7   | 2054             | 1               | 1             | 2054               | 14863.73            |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |              |               |   |   |       |          |      |          |   |      |  |

## Proposal 7073 - Observation 33 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.97171 to 0.98274 with period 3.777940 Days and zero-phase 2458389.2939 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 21 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 21: NIRISS-Transit-1</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|--------------------------|--|---|---|--------------------------|--------------------------|--|--------------------|---------------------|---|---|-----------------|---|------|-----------|-------|----------|----|--------|---|-------|----------|---|-----|---|---|-----|-----------|--------|---|----------|---|----|---|---|----|---------|--------|--|--|--|--|--|--|--|--|--|
|                          | (NIRISS-Transit-1 (Obs 21)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Diagnosics</b>        |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>  | #   | Name  | Target Coordinates       | Targ. Coord. Corrections | Miscellaneous                                    | (2)                | LHS-1140            | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                 | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i></p> |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Name  | Target Coordinates  | Targ. Coord. Corrections | Miscellaneous            |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| (2)                      | LHS-1140   | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>11</td> <td>1</td> <td>1</td> <td>0.566</td> <td>172682</td> </tr> </tbody> </table>  | #   | Target  | Acquisition Mode         | Filter                   | Readout Pattern                                  | Groups/Int         | Integrations/Exp    | Total Integrations  | Total Exposure Time   | Optional ETC ID | 1   | SAME | SOSSFAINT | F480M | NISRAPID | 11 | 1      | 1 | 0.566 | 172682   |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | #  | Target  | Acquisition Mode  | Filter                   | Readout Pattern          | Groups/Int                                       | Integrations/Exp   | Total Integrations  | Total Exposure Time   | Optional ETC ID   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| 1                        | SAME   | SOSSFAINT   | F480M   | NISRAPID                 | 11                       | 1  | 1                  | 0.566               | 172682  |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Template</b>          | Subarray   |   |   |                          |                          | Include Short First Exposure and F277W Exposure? |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | SUBSTRIP256  |   |   |                          |                          | true   |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NISRAPID</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>11.008</td> <td></td> </tr> <tr> <td>2</td> <td>NISRAPID</td> <td>5</td> <td>547</td> <td>1</td> <td>1</td> <td>547</td> <td>18042.511</td> <td>172682</td> </tr> <tr> <td>3</td> <td>NISRAPID</td> <td>6</td> <td>10</td> <td>1</td> <td>1</td> <td>10</td> <td>384.785</td> <td>172682</td> </tr> </tbody> </table> | #   | Readout Pattern   | Groups/Int               | Integrations/Exp         | Exposures/Dith                                   | Total Dithers      | Total Integrations  | Total Exposure Time   | Optional ETC ID   | 1               | NISRAPID  | 1    | 1         | 1     | 1        | 1  | 11.008 |   | 2     | NISRAPID | 5 | 547 | 1 | 1 | 547 | 18042.511 | 172682 | 3 | NISRAPID | 6 | 10 | 1 | 1 | 10 | 384.785 | 172682 |  |  |  |  |  |  |  |  |  |
|                          | #  | Readout Pattern   | Groups/Int  | Integrations/Exp         | Exposures/Dith           | Total Dithers                                    | Total Integrations | Total Exposure Time | Optional ETC ID   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | 1  | NISRAPID  | 1   | 1                        | 1                        | 1  | 1                  | 11.008              |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          | 2  | NISRAPID  | 5   | 547                      | 1                        | 1  | 547                | 18042.511           | 172682  |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
| 3                        | NISRAPID   | 6   | 10  | 1                        | 1                        | 10   | 384.785            | 172682              |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |
|                          |  |   |   |                          |                          |  |                    |                     |   |   |                 |   |      |           |       |          |    |        |   |       |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |        |  |  |  |  |  |  |  |  |  |

## Proposal 7073 - Observation 21 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.99494 to 0.99662 with period 24.73723 Days and zero-phase 2458399.9300 HJD  
Aperture PA Range 30 to 50 Degrees (V3 29.43873283 to 49.43873283)  
Aperture PA Range 255 to 280 Degrees (V3 254.43873283 to 279.43873283)  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 22 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>  | <b>Proposal 7073, Observation 22: NIRISS-Transit-2</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|---|---|---|---|--------------------------|---------------|--------------------|---------------------|---------------------|-----------------|---|--------|------------------|--------------------|--------------------------|----------------|------------------|--------------------|---|---|---|----------|-----------|-------|----------|----|---|--------|-------|--------|----------|---|-----|---|---|-----|-----------|--------|---|----------|---|----|---|---|----|---------|
|   | (NIRISS-Transit-2 (Obs 22)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.<br>(Visit 22:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.  |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Diagnostics</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i></p> |   |   |                          |               |                    |                     |                     |                 |   | #      | Name             | Target Coordinates | Targ. Coord. Corrections | Miscellaneous  | (2)              | LHS-1140           | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   | #   | Name  | Target Coordinates  | Targ. Coord. Corrections | Miscellaneous |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| (2)   | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>11</td> <td>1</td> <td>1</td> <td>0.566</td> <td>172682</td> </tr> </tbody> </table> |   |   |   |                          |               |                    |                     |                     |                 | # | Target | Acquisition Mode | Filter             | Readout Pattern          | Groups/Int     | Integrations/Exp | Total Integrations | Total Exposure Time   | Optional ETC ID   | 1 | SAME     | SOSSFAINT | F480M | NISRAPID | 11 | 1 | 1      | 0.566 | 172682 |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| #   | Target  | Acquisition Mode  | Filter  | Readout Pattern          | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 1   | SAME  | SOSSFAINT   | F480M   | NISRAPID                 | 11            | 1                  | 1                   | 0.566               | 172682          |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Fixed Targets</b>  | Subarray <span style="float: right;">Include Short First Exposure and F277W Exposure?</span><br>SUBSTRIP256 <span style="float: right;">true</span>   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
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| #   | Readout Pattern   | Groups/Int  | Integrations/Exp  | Exposures/Dith           | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 1   | NISRAPID  | 1   | 1   | 1                        | 1             | 1                  | 11.008              |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 2   | NISRAPID  | 5   | 547   | 1                        | 1             | 547                | 18042.511           | 172682              |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 3   | NISRAPID  | 6   | 10  | 1                        | 1             | 10                 | 384.785             | 172682              |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Acquisition</b>  |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Template</b>   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Spectral Elements</b>  |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |

## Proposal 7073 - Observation 22 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.99494 to 0.99662 with period 24.73723 Days and zero-phase 2458399.9300 HJD  
Aperture PA Range 30 to 50 Degrees (V3 29.43873283 to 49.43873283)  
Aperture PA Range 255 to 280 Degrees (V3 254.43873283 to 279.43873283)  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 23 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>  | <b>Proposal 7073, Observation 23: NIRISS-Transit-3</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRISS Single-Object Slitless Spectroscopy   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|---|---|---|---|--------------------------|---------------|--------------------|---------------------|---------------------|-----------------|---|--------|------------------|--------------------|--------------------------|----------------|------------------|--------------------|---|---|---|----------|-----------|-------|----------|----|---|--------|-------|--------|----------|---|-----|---|---|-----|-----------|--------|---|----------|---|----|---|---|----|---------|
|   | (NIRISS-Transit-3 (Obs 23)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.<br>(Visit 23:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.  |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Diagnostics</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i></p> |   |   |                          |               |                    |                     |                     |                 |   | #      | Name             | Target Coordinates | Targ. Coord. Corrections | Miscellaneous  | (2)              | LHS-1140           | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   | #   | Name  | Target Coordinates  | Targ. Coord. Corrections | Miscellaneous |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| (2)   | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
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| #   | Target  | Acquisition Mode  | Filter  | Readout Pattern          | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 1   | SAME  | SOSSFAINT   | F480M   | NISRAPID                 | 11            | 1                  | 1                   | 0.566               | 172682          |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Fixed Targets</b>  | Subarray <span style="float: right;">Include Short First Exposure and F277W Exposure?</span><br>SUBSTRIP256 <span style="float: right;">true</span>   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
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| #   | Readout Pattern   | Groups/Int  | Integrations/Exp  | Exposures/Dith           | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 1   | NISRAPID  | 1   | 1   | 1                        | 1             | 1                  | 11.008              |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 2   | NISRAPID  | 5   | 547   | 1                        | 1             | 547                | 18042.511           | 172682              |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| 3   | NISRAPID  | 6   | 10  | 1                        | 1             | 10                 | 384.785             | 172682              |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Acquisition</b>  |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Template</b>   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
| <b>Spectral Elements</b>  |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |
|   |   |   |   |                          |               |                    |                     |                     |                 |   |        |                  |                    |                          |                |                  |                    |   |   |   |          |           |       |          |    |   |        |       |        |          |   |     |   |   |     |           |        |   |          |   |    |   |   |    |         |

## Proposal 7073 - Observation 23 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.99494 to 0.99662 with period 24.73723 Days and zero-phase 2458399.9300 HJD  
Aperture PA Range 30 to 50 Degrees (V3 29.43873283 to 49.43873283)  
Aperture PA Range 255 to 280 Degrees (V3 254.43873283 to 279.43873283)  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 24 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 24: NIRSpec-Transit-1</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRSpec Bright Object Time Series   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|---|---|---------------------|-----------------|--------------|---------------|------|-------|-------|----------|------|-----------|---|------|--|
| <b>Diagnostics</b>       | (NIRSpec-Transit-1 (Obs 24)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(NIRSpec-Transit-1 (Obs 24)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.<br>(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections | Miscellaneous    | (2)             | LHS-1140      | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  | Miscellaneous    |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| (2)                      | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5 TA-LHS-1140</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>   |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp  | Total Integrations  | Total Exposure Time | Optional ETC ID | 1            | 5 TA-LHS-1140 | WATA | SUB32 | F110W | NRSRAPID | 3    | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| 1                        | 5 TA-LHS-1140   | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| <b>Template</b>          | Subarray<br>SUB2048   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395M/F290LP</td> <td>NRSRAPID</td> <td>7</td> <td>2496</td> <td>1</td> <td>1</td> <td>2496</td> <td>18062.254</td> <td></td> </tr> </tbody> </table>   |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations  | Total Exposure Time   | Optional ETC ID     | 1               | G395M/F290LP | NRSRAPID      | 7    | 2496  | 1     | 1        | 2496 | 18062.254 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |
| 1                        | G395M/F290LP  | NRSRAPID  | 7   | 2496             | 1               | 1             | 2496               | 18062.254           |                     |                 |   |                |                    |                          |                  |                 |               |   |   |                     |                 |              |               |      |       |       |          |      |           |   |      |  |

## Proposal 7073 - Observation 24 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.99494 to 0.99662 with period 24.73723 Days and zero-phase 2458399.9300 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 25 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 25: NIRSpec-Transit-2</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRSpec Bright Object Time Series   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|--------------------------|---|---|---|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|--------|--------------------|--------------------------|---------------|------------------|----------------|---|---|---------------------|-----------------|---|---------------|----------|-------|-------|----------|---|------|-----------|------|--|
|                          | (NIRSpec-Transit-2 (Obs 25)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(NIRSpec-Transit-2 (Obs 25)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.<br>(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.<br>(Visit 25:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Diagnostics</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i></p> |   |   |                          |                  |                 |               |                    |                     |                     | #               | Name   | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (2)              | LHS-1140       | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|                          | #   | Name  | Target Coordinates  | Targ. Coord. Corrections | Miscellaneous    |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| (2)                      | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000   | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5 TA-LHS-1140</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>   |   |   |                          |                  |                 |               |                    |                     |                     | #               | Target | TA Method          | Subarray                 | Filter        | Readout Pattern  | Groups/Int     | Integrations/Exp  | Total Integrations  | Total Exposure Time | Optional ETC ID | 1 | 5 TA-LHS-1140 | WATA     | SUB32 | F110W | NRSRAPID | 3 | 1    | 1         | 0.08 |  |
|                          | #   | Target  | TA Method   | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| 1                        | 5 TA-LHS-1140   | WATA  | SUB32   | F110W                    | NRSRAPID         | 3               | 1             | 1                  | 0.08                |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Acquisition</b>       | Subarray<br>SUB2048   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|                          | <b>Template</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395M/F290LP</td> <td>NRSRAPID</td> <td>7</td> <td>2496</td> <td>1</td> <td>1</td> <td>2496</td> <td>18062.254</td> <td></td> </tr> </tbody> </table> |   |                          |                  |                 |               |                    |                     |                     |                 | #      | Grating/Filter     | Readout Pattern          | Groups/Int    | Integrations/Exp | Exposures/Dith | Total Dithers   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1 | G395M/F290LP  | NRSRAPID | 7     | 2496  | 1        | 1 | 2496 | 18062.254 |      |  |
| #                        |   | Grating/Filter  | Readout Pattern   | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| 1                        | G395M/F290LP  | NRSRAPID  | 7   | 2496                     | 1                | 1               | 2496          | 18062.254          |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Spectral Elements</b> |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|                          |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |

## Proposal 7073 - Observation 25 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.99494 to 0.99662 with period 24.73723 Days and zero-phase 2458399.9300 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 26 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <b>Proposal 7073, Observation 26: NIRSpec-Transit-3</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRSpec Bright Object Time Series   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|--------------------------|---|---|---|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|--------|--------------------|--------------------------|---------------|------------------|----------------|---|---|---------------------|-----------------|---|---------------|----------|-------|-------|----------|---|------|-----------|------|--|
|                          | (NIRSpec-Transit-3 (Obs 26)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.<br>(NIRSpec-Transit-3 (Obs 26)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.<br>(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.<br>(Visit 26:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Diagnostics</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>LHS-1140</td> <td>RA: 00 44 59.3309 (11.2472121d)<br/>Dec: -15 16 17.54 (-15.27154d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr<br/>Proper Motion Dec: -596.623 mas/yr<br/>Parallax: 0.0668287"<br/>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/> <i>Description=[Exoplanet Systems, M dwarfs]</i><br/> <i>Extended=NO</i></p> |   |   |                          |                  |                 |               |                    |                     |                     | #               | Name   | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (2)              | LHS-1140       | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000 | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|                          | #   | Name  | Target Coordinates  | Targ. Coord. Corrections | Miscellaneous    |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| (2)                      | LHS-1140  | RA: 00 44 59.3309 (11.2472121d)<br>Dec: -15 16 17.54 (-15.27154d)<br>Equinox: J2000   | Proper Motion RA: 318.152 mas/yr<br>Proper Motion Dec: -596.623 mas/yr<br>Parallax: 0.0668287"<br>Epoch of Position: 2000 |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5 TA-LHS-1140</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>   |   |   |                          |                  |                 |               |                    |                     |                     | #               | Target | TA Method          | Subarray                 | Filter        | Readout Pattern  | Groups/Int     | Integrations/Exp  | Total Integrations  | Total Exposure Time | Optional ETC ID | 1 | 5 TA-LHS-1140 | WATA     | SUB32 | F110W | NRSRAPID | 3 | 1    | 1         | 0.08 |  |
|                          | #   | Target  | TA Method   | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| 1                        | 5 TA-LHS-1140   | WATA  | SUB32   | F110W                    | NRSRAPID         | 3               | 1             | 1                  | 0.08                |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Acquisition</b>       | Subarray<br>SUB2048   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|                          | <b>Template</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395M/F290LP</td> <td>NRSRAPID</td> <td>7</td> <td>2496</td> <td>1</td> <td>1</td> <td>2496</td> <td>18062.254</td> <td></td> </tr> </tbody> </table> |   |                          |                  |                 |               |                    |                     |                     |                 | #      | Grating/Filter     | Readout Pattern          | Groups/Int    | Integrations/Exp | Exposures/Dith | Total Dithers   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1 | G395M/F290LP  | NRSRAPID | 7     | 2496  | 1        | 1 | 2496 | 18062.254 |      |  |
| #                        |   | Grating/Filter  | Readout Pattern   | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| 1                        | G395M/F290LP  | NRSRAPID  | 7   | 2496                     | 1                | 1               | 2496          | 18062.254          |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
| <b>Spectral Elements</b> |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |
|                          |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |        |                    |                          |               |                  |                |   |   |                     |                 |   |               |          |       |       |          |   |      |           |      |  |

## Proposal 7073 - Observation 26 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.99494 to 0.99662 with period 24.73723 Days and zero-phase 2458399.9300 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 41 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 41: Transit-1</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-1 (Obs 41)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-1 (Obs 41)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 41:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>5</td> <td>10050</td> <td>1</td> <td>1</td> <td>10050</td> <td>13843.272</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | PRISM/CLEAR | NRSRAPID | 5   | 10050   | 1     | 1        | 10050 | 13843.272 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 41 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 42 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 42: Transit-2</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-2 (Obs 42)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-2 (Obs 42)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 42:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 42 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 43 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 43: Transit-3</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-3 (Obs 43)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-3 (Obs 43)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 43 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 44 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 44: Transit-4</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-4 (Obs 44)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-4 (Obs 44)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 44:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 44 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 45 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 45: Transit-5</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-5 (Obs 45)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-5 (Obs 45)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 45:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 45 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 46 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 46: Transit-6</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-6 (Obs 46)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-6 (Obs 46)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 46:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 46 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 47 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 47: Transit-7</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-7 (Obs 47)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-7 (Obs 47)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 47:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 47 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 48 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 48: Transit-8</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-8 (Obs 48)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-8 (Obs 48)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 48:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10050            | 1               | 1             | 10050              | 13843.272           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 48 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9630 to 0.9782 with period 2.7299025 Days and zero-phase 2459447.82637 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 51 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 51: Transit-1</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-1 (Obs 51)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-1 (Obs 51)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>5</td> <td>10348</td> <td>1</td> <td>1</td> <td>10348</td> <td>14253.749</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | PRISM/CLEAR | NRSRAPID | 5   | 10348   | 1     | 1        | 10348 | 14253.749 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 51 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 52 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 52: Transit-2</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-2 (Obs 52)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-2 (Obs 52)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>5</td> <td>10348</td> <td>1</td> <td>1</td> <td>10348</td> <td>14253.749</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | PRISM/CLEAR | NRSRAPID | 5   | 10348   | 1     | 1        | 10348 | 14253.749 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 52 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 53 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 53: Transit-3</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
|                          | <p>(Transit-3 (Obs 53)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-3 (Obs 53)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 53:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Diagnostics</b>       |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|                          |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                          |                  |                 |               |                    |                     |                     | #               | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
|                          | #   | Name  | Target Coordinates  | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|                          |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                          |                  |                 |               |                    |                     |                     | #               | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
|                          | #   | Target  | TA Method   | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W                    | NRSRAPID         | 3               | 1             | 1                  | 0.08                |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|                          |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | Subarray  |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|                          | SUB512  |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>5</td> <td>10348</td> <td>1</td> <td>1</td> <td>10348</td> <td>14253.749</td> <td></td> </tr> </tbody> </table>  |   |   |                          |                  |                 |               |                    |                     |                     | #               | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | PRISM/CLEAR | NRSRAPID | 5   | 10348   | 1     | 1        | 10348 | 14253.749 |   |      |  |
|                          | #   | Grating/Filter  | Readout Pattern   | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348                    | 1                | 1               | 10348         | 14253.749          |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|                          |   |   |   |                          |                  |                 |               |                    |                     |                     |                 |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 53 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 54 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 54: Transit-4</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-4 (Obs 54)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-4 (Obs 54)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 54:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>5</td> <td>10348</td> <td>1</td> <td>1</td> <td>10348</td> <td>14253.749</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | PRISM/CLEAR | NRSRAPID | 5   | 10348   | 1     | 1        | 10348 | 14253.749 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 54 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 55 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 55: Transit-5</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-5 (Obs 55)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-5 (Obs 55)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 55:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Spectral Elements</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>5</td> <td>10348</td> <td>1</td> <td>1</td> <td>10348</td> <td>14253.749</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Grating/Filter | Readout Pattern    | Groups/Int               | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     | 1               | PRISM/CLEAR | NRSRAPID | 5   | 10348   | 1     | 1        | 10348 | 14253.749 |   |      |  |
| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 55 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 56 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 56: Transit-6</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-6 (Obs 56)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-6 (Obs 56)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 56:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 56 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 57 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 57: Transit-7</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-7 (Obs 57)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-7 (Obs 57)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 57:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 57 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 58 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 58: Transit-8</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-8 (Obs 58)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-8 (Obs 58)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 58:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 58 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 59 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 59: Transit-9</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-9 (Obs 59)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-9 (Obs 59)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 59:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 59 - Charting the Cosmic Shoreline

### Special Requirements

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 60 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 60: Transit-10</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-10 (Obs 60)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-10 (Obs 60)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 60:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 60 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 61 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 61: Transit-11</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-11 (Obs 61)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-11 (Obs 61)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 61:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 61 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 62 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 62: Transit-12</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-12 (Obs 62)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-12 (Obs 62)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 62:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 62 - Charting the Cosmic Shoreline

Special Requirements

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

# Proposal 7073 - Observation 63 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 63: Transit-13</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-13 (Obs 63)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-13 (Obs 63)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 63:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 63 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 64 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 64: Transit-14</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-14 (Obs 64)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-14 (Obs 64)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 64:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 64 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 65 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 65: Transit-15</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-15 (Obs 65)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-15 (Obs 65)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 65:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Acquisition</b>       | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F110W</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td></td> </tr> </tbody> </table>  |   |   |                  |                 |               |                    |                     |                     |                 | # | Target         | TA Method          | Subarray                 | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID | 1           | SAME     | WATA  | SUB32   | F110W | NRSRAPID | 3     | 1         | 1 | 0.08 |  |
| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 65 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 66 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 66: Transit-16</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-16 (Obs 66)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-16 (Obs 66)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 66:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
| #                        | Name  | Target Coordinates  | Targ. Coord. Corrections  |                  |                 |               | Miscellaneous      |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| (4)                      | LP-890-9  | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 66 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 67 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 67: Transit-17</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-17 (Obs 67)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-17 (Obs 67)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 67:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Fixed Targets</b>     | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LP-890-9</td> <td>RA: 04 16 31.1618 (64.1298408d)<br/>Dec: -28 18 52.95 (-28.31471d)<br/>Equinox: J2000</td> <td colspan="4">Proper Motion RA: 218.569 mas/yr<br/>Proper Motion Dec: -251.1450000156401 mas/yr<br/>Parallax: 0.0309326"<br/>Epoch of Position: 2000</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i><br/><i>Description=[Exoplanet Systems, M dwarfs]</i><br/><i>Extended=NO</i></p> |   |   |                  |                 |               |                    |                     |                     |                 | # | Name           | Target Coordinates | Targ. Coord. Corrections |                  |                 |               | Miscellaneous      |                     |                     |                 | (4)         | LP-890-9 | RA: 04 16 31.1618 (64.1298408d)<br>Dec: -28 18 52.95 (-28.31471d)<br>Equinox: J2000 | Proper Motion RA: 218.569 mas/yr<br>Proper Motion Dec: -251.1450000156401 mas/yr<br>Parallax: 0.0309326"<br>Epoch of Position: 2000 |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Grating/Filter  | Readout Pattern   | Groups/Int  | Integrations/Exp | Exposures/Dith  | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 67 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 77 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 77: Transit-17 - Repeat of Obs 67</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-17 - Repeat of Obs 67 (Obs 77)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-17 - Repeat of Obs 67 (Obs 77)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 77:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| #                        | Target  | TA Method   | Subarray  | Filter           | Readout Pattern | Groups/Int    | Integrations/Exp   | Total Integrations  | Total Exposure Time | Optional ETC ID |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 77 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 7073 - Observation 68 - Charting the Cosmic Shoreline

Wed Dec 03 14:00:22 GMT 2025

| <b>Observation</b>       | <p><b>Proposal 7073, Observation 68: Transit-18</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
|--------------------------|---|---|---|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|---|----------------|--------------------|--------------------------|------------------|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|-------------|----------|---|---|-------|----------|-------|-----------|---|------|--|
| <b>Diagnostics</b>       | <p>(Transit-18 (Obs 68)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Transit-18 (Obs 68)) Warning (Form): Observers are responsible for checking that target acquisition is feasible.</p> <p>(Visit 68:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| 1                        | SAME  | WATA  | SUB32   | F110W            | NRSRAPID        | 3             | 1                  | 1                   | 0.08                |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
| <b>Template</b>          | <p>Subarray</p> <p>SUB512</p>   |   |   |                  |                 |               |                    |                     |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |
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| 1                        | PRISM/CLEAR   | NRSRAPID  | 5   | 10348            | 1               | 1             | 10348              | 14253.749           |                     |                 |   |                |                    |                          |                  |                 |               |                    |                     |                     |                 |             |          |   |   |       |          |       |           |   |      |  |

## Proposal 7073 - Observation 68 - Charting the Cosmic Shoreline

**Special Requirements**

Phase 0.9878 to 0.9927 with period 8.457463 Days and zero-phase 2459520.70598 HJD  
Time Series Observation  
No Parallel Attachments