



11779 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Cycle: 5, Proposal Category: GO

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> |
|--|--|
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| Dr. Dana R. Louie (CoI) | Catholic University of America |
| Dr. Knicole Colon (CoI) | NASA Goddard Space Flight Center |

OBSERVATIONS

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|------------------|--------------------|----------------------|--|-----------------------|
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| | 11 | WASP-139 b Transit 2 | NIRISS Single-Object Slitless Spectroscopy | (1) WASP-139 |
| | 4 | TOI-181 b Transit 1 | NIRSpec Bright Object Time Series | (5) TOI-181 |
| | 5 | TOI-181 b Transit 2 | NIRISS Single-Object Slitless Spectroscopy | (5) TOI-181 |
| | 6 | TOI-2374 b Transit 1 | NIRSpec Bright Object Time Series | (6) TOI-2374 |
| | 7 | TOI-2374 b Transit 2 | NIRISS Single-Object Slitless Spectroscopy | (6) TOI-2374 |
| | 12 | HATS-48A b Transit | NIRSpec Bright Object Time Series | (11) HATS-48 |
| | 13 | TOI-1823 b Transit 1 | NIRSpec Bright Object Time Series | (12) TOI-1823 |
| | 14 | TOI-1823 b Transit 2 | NIRISS Single-Object Slitless Spectroscopy | (12) TOI-1823 |

ABSTRACT

With the advent of JWST, our inventory of gas giant atmospheric observations is growing rapidly in breadth and depth. However, a simple question that underlies our understanding of planet formation remains unanswered: Why do some planets undergo runaway gas accretion and others do not,

remaining "stalled" and resulting in a constant occurrence rate distribution between Neptune and Saturn? Here we propose atmospheric observations of five "stalled giants", planets with masses between 30-80 Earth masses that did not grow to Jupiter's mass; our sample includes all of the feasible targets around FGK stars and increases this sample from one to six total. Measuring these planets' atmospheric compositions from major carbon and oxygen bearing species will allow us to pinpoint what stalled their gas accretion -- was it solid accretion (leaving the envelope enriched) or gap opening (leaving the envelope likely stellar in metallicity)? Measuring their atmospheric compositions will additionally reveal how metals are distributed in their interiors, which bulk planet metallicities do not constrain. In mass space, "stalled giants" correspond to the diffuse cores of the Solar System giants, so their atmospheric characterization will additionally reveal whether such highly enriched envelopes can be a result of formation and persist over Gyr. Overall, this proposal will provide critical empirical constraints for giant planet formation theory both within and outside of the Solar System.

OBSERVING DESCRIPTION

We propose to acquire transmission spectra of five exoplanets --WASP-139 b, TOI-181 b, TOI-2374 b, TOI-1823 b, and HATS-48A b -- using the NIRSpec and NIRISS instruments. Our goal is to measure the transmission spectrum of each planet from 1 to 5 microns. Below we summarize the basic details of each visit.

TOI-181 b, one transit, NIRSpec G395M BOTS

TOI-181 b, one transit, NIRISS SOSS time series with SUB680STRIPE

WASP-139 b, one transit, NIRSpec G395M BOTS

WASP-139 b, one transit, NIRISS SOSS time series with SUBSTRIP256

TOI-2374 b, one transit, NIRSpec G395M BOTS

TOI-2374 b, one transit, NIRISS SOSS time series with SUBSTRIP256

TOI-1823 b, one transit, NIRSpec G395M BOTS

TOI-1823 b, one transit, NIRISS SOSS time series with SUB680STRIPE

HATS-48A b, one transit, NIRSpec PRISM BOTS

For all visits, we have ignored the APT warning about the exposure duration exceeds 10000 seconds as mentioned in the JWST BOTS documentation.

JWST Proposal 11779 (Created: Thursday, May 14, 2026, 12:00:21PM Eastern Standard Time) - Overview

When using NIRSpec, we opt for the medium resolution grating (G395M) as its throughput is higher than G395H and we will be binning the final transmission spectra down to a resolution of approximately 100 to build signal. Also, G395M does not have a reduced wavelength coverage resulting from a detector gap.

HATS-48A is faint enough that they can be observed with PRISM mode, which has the desired resolution and wavelength coverage. However, to avoid saturation, we must use the SUB512 array. WASP-139 is just bright enough that PRISM is not feasible due to the small number of groups.

For the NIRSpec target acquisitions for WASP-139 b, TOI-181 b, TOI-2374 b, and HATS-48A b we use WATA on a nearby 2MASS/Gaia sources as recommended in the BOTS documentation. We have checked with the ETC that these WATA exposures achieve a minimum S/N of 20 for optimal target placement accuracy as recommended by JDocs. TOI-1823 is too bright for TA, and does not have any fainter stars within the splitting distance, so our only option here is TA=NONE.

For the NIRISS SOSS observations, we made use of the new multistripe subarray option for the brighter stars, otherwise we use SUBSTRIP256. In all cases we request an additional F227W exposure to help constrain any contaminating sources and better facilitate spectral extraction and wavelength calibration. We have verified with the ETC the number of integrations to achieve a minimum S/N of 400 or 10 integrations (whichever is less, keeping the number of groups the same as the science/CLEAR exposure) in the F227W exposures. For NIRISS target acquisition, we use the science targets as the TA stars, and verify with the ETC the minimum number of groups required to achieve a S/N of at least 100 as recommended by JDocs for optimal centroiding accuracy.

Also for the NIRISS SOSS observations, we calculated un-contaminated position angles (PAs) using the publicly available tool within the STScI Exoplanet Characterization Toolkit, opting to be as generous as possible to allow for maximum scheduability.

For all observations, have checked that the number of groups results in no more than approximately 80% of the maximum fraction of saturation.

All exposure times are calculated as "dwell times" as described in the online JWST documentation for time series observations of WASP-79 (NIRSpec) and HAT-P-1 (NIRISS SOSS), which includes 1 hour for the start time window. We used the most up-to-date orbital information and ephemerides for each planet from the NASA Exoplanet Archive to set the phase constraints in the APT. The one except is the long transit of TOI-1823 b, wherein we only use 2.5 hours of out of transit baseline pre and post transit to stay below the total intergration number limit for a single observation.

Proposal 11779 - Targets - Stalled Giants as a Key to Understanding Runaway Gas Accretion

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|--|-------------|--|---|---------------|
| (1) | WASP-139 | RA: 03 18 14.9435 (49.5622646d) Dec: -41 18 7.66 (-41.30213d) Equinox: J2000 | Proper Motion RA: -15.996 mas/yr Proper Motion Dec: 24.353 mas/yr Parallax: 0.0046984" 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>J 10.982</i> <i>H 10.575</i> <i>K 10.472</i> <i>Category=Star</i> <i>Description=[Exoplanet Systems, G stars]</i> <i>Extended=NO</i></p> | | | | |
| (2) | WASP-139-TA | RA: 03 18 13.0836 (49.5545150d) Dec: -41 17 45.77 (-41.29605d) Equinox: J2000 | Proper Motion RA: 9.27 mas/yr Proper Motion Dec: 1.45 mas/yr Epoch of Position: 2000 | |
| <p><i>Comments: Nearby object for WASP-139 WATA.</i></p> <p><i>Gaia DR2 4851398485498508544</i> <i>J 15.496</i> <i>H 14.935</i> <i>K 14.694</i> <i>Category=Star</i> <i>Description=[F stars]</i></p> | | | | |
| (5) | TOI-181 | RA: 23 28 41.2700 (352.1719583d) Dec: -34 29 29.03 (-34.49140d) Equinox: J2000 | Proper Motion RA: 111.50299999999999 mas/yr Proper Motion Dec: -2.6420000267535215 mas/yr Parallax: 0.0103837" 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> <i>Description=[Exoplanet Systems, K stars]</i> <i>Extended=NO</i></p> | | | | |
| (6) | TOI-2374 | RA: 21 17 59.5906 (319.4982942d) Dec: -22 02 58.88 (-22.04969d) Equinox: J2000 | Proper Motion RA: -11.47 mas/yr Proper Motion Dec: -31.420999971487618 mas/yr Parallax: 0.007359200000000001" 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> <i>Description=[Exoplanet Systems, K stars]</i> <i>Extended=NO</i></p> | | | | |

Fixed Targets

Proposal 11779 - Targets - Stalled Giants as a Key to Understanding Runaway Gas Accretion

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|--|--|
| <p>(8) TOI-181-TA</p> <p>RA: 23 28 42.0857 (352.1753571d) Dec: -34 29 41.98 (-34.49499d) Equinox: J2000</p> <p><i>Comments: This object was generated by the targetselector and retrieved from the 2MASS database.</i></p> <p><i>Nearby TA star for TOI-181.</i> Gaia DR3 6552346035979609088 12.272 J mag 11.607 H mag 11.463 K mag 15.076633 Gaia mag Category=Star Description=[K stars] Extended=NO</p> | <p>Proper Motion RA: -41.491 mas/yr Proper Motion Dec: -13.790 mas/yr Epoch of Position: 2000</p> |
| <p>(9) TOI-2374-TA</p> <p>RA: 21 17 56.9090 (319.4871208d) Dec: -22 03 2.85 (-22.05079d) Equinox: J2000</p> <p><i>Comments: This object was generated by the targetselector and retrieved from the 2MASS database.</i></p> <p><i>Gaia DR3 6828814249055166080</i> 13.923 J mag 13.324 H mag 13.265 K mag 15.55828 Gaia mag</p> <p><i>T_{eff} 4469</i> Category=Star Description=[K stars]</p> | <p>Proper Motion RA: 0.444 mas/yr Proper Motion Dec: -10.656 mas/yr Epoch of Position: 2000</p> |
| <p>(11) HATS-48</p> <p>RA: 19 14 41.2747 (288.6719779d) Dec: -59 34 45.76 (-59.57938d) Equinox: J2000</p> <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> Category=Star Description=[Exoplanets, K dwarfs]</p> | <p>Proper Motion RA: 3.172 mas/yr Proper Motion Dec: 6.153 mas/yr Parallax: 0.0036847" Epoch of Position: 2000</p> |
| <p>(12) TOI-1823</p> <p>RA: 13 04 52.8851 (196.2203546d) Dec: +63 45 13.65 (63.75379d) Equinox: J2000</p> <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> Category=Star Description=[Exoplanets, K dwarfs]</p> | <p>Proper Motion RA: -65.168 mas/yr Proper Motion Dec: -123.03100004373846 mas/yr Parallax: 0.0139534" Epoch of Position: 2000</p> |

Proposal 11779 - Targets - Stalled Giants as a Key to Understanding Runaway Gas Accretion

| | | | |
|------|------------|--|--|
| (13) | HATS-48-TA | RA: 19 14 41.1003 (288.6712513d) Dec: -59 34 26.21 (-59.57395d) Equinox: J2000 | Proper Motion RA: -1.034 mas/yr Proper Motion Dec: -2.9260000246722484 mas/yr Parallax: 6.064000000000001E-4" Epoch of Position: 2000 |
|------|------------|--|--|

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

G mag 20.316782

Gaia DR3 Part 1. Main Source catalog lists e_RA_ICRS at 0.4865 mas, e_DE_ICRS at 0.5492 mas, pmra_error at 0.593 mas/yr, pmdec_error at 0.550 mas/yr

Category=Star

Description=[Exoplanets]

Proposal 11779 - Observation 1 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | Proposal 11779, Observation 1: WASP-139 b Transit 1 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series <i>Comments: MAY 2026 UPDATES</i> <i>Changed to 40 groups/integration and 733 integrations/exposure.</i> <i>Updated Gaia DR2 ID in comments of TA star (magnitudes were correct, just not Gaia DR2 ID).</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|--------------------------|------------------|----------------|------------------|--------------------|---------------------|-----------------|--------|----------------|--------------------|--------------------------|------------------|----------------|------------------|--|---|-----------------|---|---------------|----------|-------|-------|------------|---|-----|-----------|--------|--------|
| | Diagnosics (WASP-139 b 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. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <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>WASP-139</td> <td>RA: 03 18 14.9435 (49.5622646d) Dec: -41 18 7.66 (-41.30213d) Equinox: J2000</td> <td>Proper Motion RA: -15.996 mas/yr Proper Motion Dec: 24.353 mas/yr Parallax: 0.0046984" 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>J 10.982 H 10.575 K 10.472 Category=Star Description=[Exoplanet Systems, G stars] Extended=NO</p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (1) | WASP-139 | RA: 03 18 14.9435 (49.5622646d) Dec: -41 18 7.66 (-41.30213d) Equinox: J2000 | Proper Motion RA: -15.996 mas/yr Proper Motion Dec: 24.353 mas/yr Parallax: 0.0046984" Epoch of Position: 2000 | | | | | | | | | | | | |
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| <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>2 WASP-139-TA</td> <td>WATA</td> <td>SUB32</td> <td>CLEAR</td> <td>NRSRAPIDD6</td> <td>3</td> <td>1</td> <td>1</td> <td>0.26</td> <td>301475</td> </tr> </tbody> </table> | | | | | | | | | | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | 1 | 2 WASP-139-TA | WATA | SUB32 | CLEAR | NRSRAPIDD6 | 3 | 1 | 1 | 0.26 | 301475 |
| # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 WASP-139-TA | WATA | SUB32 | CLEAR | NRSRAPIDD6 | 3 | 1 | 1 | 0.26 | 301475 | | | | | | | | | | | | | | | | | | | | | |
| Template | Subarray SUB2048 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <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>40</td> <td>733</td> <td>1</td> <td>1</td> <td>733</td> <td>27122.818</td> <td>301475</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 | 40 | 733 | 1 | 1 | 733 | 27122.818 | 301475 | |
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| 1 | G395M/F290LP | NRSRAPID | 40 | 733 | 1 | 1 | 733 | 27122.818 | 301475 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 1 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.967295504 to 0.974328729 with period 5.924266132 Days and zero-phase 2458363.8746000 HJD
Time Series Observation
No Parallel Attachments

Proposal 11779 - Observation 11 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | Proposal 11779, Observation 11: WASP-139 b Transit 2 Diagnostic Status: Warning Observing Template: NIRISS Single-Object Slitless Spectroscopy <i>Comments: MAY 2026 UPDATES</i> <i>Changed to 11 groups and 411 int/exp. Also updated F277W to be 11 groups.</i> <i>Changed TA to 19 groups.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|---|--------------------------|--------------------------|--|--------------------|---------------------|--|---|-----------------|--|------|-----------|-------|----------|----|--------|---|------|----------|----|-----|---|---|-----|-----------|--------|---|----------|----|----|---|---|----|---------|--------|--|--|--|--|--|--|--|--|--|
| | (WASP-139 b Transit 2 (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. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acquisition | <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>19</td> <td>1</td> <td>1</td> <td>0.93</td> <td>301475</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 | 19 | 1 | 1 | 0.93 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Target | Acquisition Mode | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SAME | SOSSFAINT | F480M | NISRAPID | 19 | 1 | 1 | 0.93 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | Subarray | | | | | Include Short First Exposure and F277W Exposure? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SUBSTRIP256 | | | | | true | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <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>11</td> <td>411</td> <td>1</td> <td>1</td> <td>411</td> <td>27104.825</td> <td>301475</td> </tr> <tr> <td>3</td> <td>NISRAPID</td> <td>11</td> <td>10</td> <td>1</td> <td>1</td> <td>10</td> <td>659.485</td> <td>301475</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 | 11 | 411 | 1 | 1 | 411 | 27104.825 | 301475 | 3 | NISRAPID | 11 | 10 | 1 | 1 | 10 | 659.485 | 301475 | | | | | | | | | |
| | # | 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 | 11 | 411 | 1 | 1 | 411 | 27104.825 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | NISRAPID | 11 | 10 | 1 | 1 | 10 | 659.485 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 11 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.967295504 to 0.974328729 with period 5.924266132 Days and zero-phase 2458363.8746000 HJD
Aperture PA Range 60 to 75 Degrees (V3 59.43873283 to 74.43873283)
Aperture PA Range 250 to 360 Degrees (V3 249.43873283 to 359.43873283)
Time Series Observation
No Parallel Attachments

Proposal 11779 - Observation 4 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | <p>Proposal 11779, Observation 4: TOI-181 b Transit 1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: MAY 2026 UPDATES</i> <i>Changed groups to 10 and integrations/exp to 2354.</i> <i>Changed TA filter to F140X and number of groups to 3.</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|---|--------------------------|--------------------------|------------------|-----------------|--------------------|--|---|---------------------|--|--------------|--------------|------|-------|-------|----------|------|-----------|--------|------|--------|--|--|--|--|--|--|--|--|--|--|
| | <p>(TOI-181 b Transit 1 (Obs 4)) 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. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <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>(5)</td> <td>TOI-181</td> <td>RA: 23 28 41.2700 (352.1719583d) Dec: -34 29 29.03 (-34.49140d) Equinox: J2000</td> <td>Proper Motion RA: 111.50299999999999 mas/yr Proper Motion Dec: -2.6420000267535215 mas/yr Parallax: 0.0103837" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (5) | TOI-181 | RA: 23 28 41.2700 (352.1719583d) Dec: -34 29 29.03 (-34.49140d) Equinox: J2000 | Proper Motion RA: 111.50299999999999 mas/yr Proper Motion Dec: -2.6420000267535215 mas/yr Parallax: 0.0103837" 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> <i>Description=[Exoplanet Systems, K stars]</i> <i>Extended=NO</i></p> | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (5) | TOI-181 | RA: 23 28 41.2700 (352.1719583d) Dec: -34 29 29.03 (-34.49140d) Equinox: J2000 | Proper Motion RA: 111.50299999999999 mas/yr Proper Motion Dec: -2.6420000267535215 mas/yr Parallax: 0.0103837" Epoch of Position: 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acquisition | <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>8 TOI-181-TA</td> <td>WATA</td> <td>SUB32</td> <td>F140X</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td>301475</td> </tr> </tbody> </table> | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | 1 | 8 TOI-181-TA | WATA | SUB32 | F140X | NRSRAPID | 3 | 1 | 1 | 0.08 | 301475 | | | | | | | | | | |
| | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 8 TOI-181-TA | WATA | SUB32 | F140X | NRSRAPID | 3 | 1 | 1 | 0.08 | 301475 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | Subarray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SUB2048 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <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>10</td> <td>2354</td> <td>1</td> <td>1</td> <td>2354</td> <td>23404.598</td> <td>301475</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 | 10 | 2354 | 1 | 1 | 2354 | 23404.598 | 301475 | | | | | | | | | | | | |
| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395M/F290LP | NRSRAPID | 10 | 2354 | 1 | 1 | 2354 | 23404.598 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 4 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.965697997 to 0.974891878 with period 4.53205017292082 Days and zero-phase 2458358.1182630 HJD
Time Series Observation
No Parallel Attachments

Proposal 11779 - Observation 5 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | Proposal 11779, Observation 5: TOI-181 b Transit 2 Diagnostic Status: Warning Observing Template: NIRISS Single-Object Slitless Spectroscopy <i>Comments: MAY 2026 UPDATES</i> <i>Changed to SUBSTRIP256 with 3 groups and 1066 int/exp. Also changed F277W exposure to 3 groups.</i> <i>Changed TA to 19 groups.</i> <i>Changed APAs to 23-30 and 278-282.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|---|-----------------|---------------|--|---------------------|---------------------|-----------------|--|---|-----------------|--------------------|--------------------------|-----------------|---------------|--------------------|--|---|-----------------|----------|------|-----------|-------|----------|----|--------|---|------|----------|---|------|---|---|------|-----------|--------|---|----------|---|----|---|---|----|---------|--------|
| Diagnostics | (TOI-181 b Transit 2 (Obs 5)) 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. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <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>(5)</td> <td>TOI-181</td> <td>RA: 23 28 41.2700 (352.1719583d) Dec: -34 29 29.03 (-34.49140d) Equinox: J2000</td> <td>Proper Motion RA: 111.50299999999999 mas/yr Proper Motion Dec: -2.6420000267535215 mas/yr Parallax: 0.0103837" 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> <i>Description=[Exoplanet Systems, K stars]</i> <i>Extended=NO</i></p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (5) | TOI-181 | RA: 23 28 41.2700 (352.1719583d) Dec: -34 29 29.03 (-34.49140d) Equinox: J2000 | Proper Motion RA: 111.50299999999999 mas/yr Proper Motion Dec: -2.6420000267535215 mas/yr Parallax: 0.0103837" Epoch of Position: 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (5) | TOI-181 | RA: 23 28 41.2700 (352.1719583d) Dec: -34 29 29.03 (-34.49140d) Equinox: J2000 | Proper Motion RA: 111.50299999999999 mas/yr Proper Motion Dec: -2.6420000267535215 mas/yr Parallax: 0.0103837" Epoch of Position: 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acquisition | <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>19</td> <td>1</td> <td>1</td> <td>0.93</td> <td>301475</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 | 19 | 1 | 1 | 0.93 | 301475 | | | | | | | | | | | | | | | | |
| # | Target | Acquisition Mode | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SAME | SOSSFAINT | F480M | NISRAPID | 19 | 1 | 1 | 0.93 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | Subarray | | | | | Include Short First Exposure and F277W Exposure? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSTRIP256 | | | | | true | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <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>3</td> <td>1066</td> <td>1</td> <td>1</td> <td>1066</td> <td>23448.248</td> <td>301475</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>219.965</td> <td>301475</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 | 3 | 1066 | 1 | 1 | 1066 | 23448.248 | 301475 | 3 | NISRAPID | 3 | 10 | 1 | 1 | 10 | 219.965 | 301475 |
| # | 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 | 3 | 1066 | 1 | 1 | 1066 | 23448.248 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | NISRAPID | 3 | 10 | 1 | 1 | 10 | 219.965 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 5 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.965697997 to 0.974891878 with period 4.53205017292082 Days and zero-phase 2458358.1182630 HJD
Aperture PA Range 23 to 30 Degrees (V3 22.43873283 to 29.43873283)
Aperture PA Range 278 to 282 Degrees (V3 277.43873283 to 281.43873283)
Time Series Observation
No Parallel Attachments

Proposal 11779 - Observation 6 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | Proposal 11779, Observation 6: TOI-2374 b Transit 1 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series <i>Comments: MAY 2026 UPDATES</i> <i>Changed to 20 groups and 1036 int/exp.</i> <i>Updated timing special requirements to try and center the transit given the new transit duration (updated since the proposal submission).</i> <i>Changed TA to CLEAR filter.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|--|--------------------------|--------------------------|------------------|-----------------|--------------------|--|--|---------------------|--|--------------|---------------|------|-------|-------|----------|------|-----------|--------|------|--------|--|--|--|--|--|--|--|--|--|
| | (TOI-2374 b Transit 1 (Obs 6)) 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. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <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>(6)</td> <td>TOI-2374</td> <td>RA: 21 17 59.5906 (319.4982942d) Dec: -22 02 58.88 (-22.04969d) Equinox: J2000</td> <td>Proper Motion RA: -11.47 mas/yr Proper Motion Dec: -31.420999971487618 mas/yr Parallax: 0.007359200000000001" Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (6) | TOI-2374 | RA: 21 17 59.5906 (319.4982942d) Dec: -22 02 58.88 (-22.04969d) Equinox: J2000 | Proper Motion RA: -11.47 mas/yr Proper Motion Dec: -31.420999971487618 mas/yr Parallax: 0.007359200000000001" Epoch of Position: 2000 | | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <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> Category=Star Description=[Exoplanet Systems, K stars] Extended=NO | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (6) | TOI-2374 | RA: 21 17 59.5906 (319.4982942d) Dec: -22 02 58.88 (-22.04969d) Equinox: J2000 | Proper Motion RA: -11.47 mas/yr Proper Motion Dec: -31.420999971487618 mas/yr Parallax: 0.007359200000000001" Epoch of Position: 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acquisition | <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>9 TOI-2374-TA</td> <td>WATA</td> <td>SUB32</td> <td>CLEAR</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td>301475</td> </tr> </tbody> </table> | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | 1 | 9 TOI-2374-TA | WATA | SUB32 | CLEAR | NRSRAPID | 3 | 1 | 1 | 0.08 | 301475 | | | | | | | | | |
| | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | |
| 1 | 9 TOI-2374-TA | WATA | SUB32 | CLEAR | NRSRAPID | 3 | 1 | 1 | 0.08 | 301475 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | Subarray SUB2048 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <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>20</td> <td>1036</td> <td>1</td> <td>1</td> <td>1036</td> <td>19645.129</td> <td>301475</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 | 20 | 1036 | 1 | 1 | 1036 | 19645.129 | 301475 | | | | | | | | | | | |
| | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | | |
| 1 | G395M/F290LP | NRSRAPID | 20 | 1036 | 1 | 1 | 1036 | 19645.129 | 301475 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 6 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.969136361 to 0.978795688 with period 4.31361 Days and zero-phase 2459064.1956318 HJD
Time Series Observation
No Parallel Attachments

Proposal 11779 - Observation 7 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | Proposal 11779, Observation 7: TOI-2374 b Transit 2 Diagnostic Status: Warning Observing Template: NIRISS Single-Object Slitless Spectroscopy <i>Comments: MAY 2026 UPDATES</i> <i>Changed to 6 groups and 511 int/exp. Also updated F277W to 6 groups.</i> <i>Updated timing special requirements to try and center the transit given the new transit duration (updated since the proposal submission).</i> <i>Changed TA to 19 groups.</i> <i>Changed APAs to 70-79 and 252-265.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--------------------------|----------------|---|--------------------|---------------------|-----------------|---|--------|------------------|--------------------|--------------------------|----------------|------------------|--------------------|--|--|---|----------|-----------|-------|----------|----|---|--------|------|--------|----------|---|-----|---|---|-----|-----------|--------|---|----------|---|----|---|---|----|---------|--------|
| | Diagnosics (TOI-2374 b Transit 2 (Obs 7)) 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. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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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 | 19 | 1 | 1 | 0.93 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | 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 | 6 | 511 | 1 | 1 | 511 | 19662.503 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | NISRAPID | 6 | 10 | 1 | 1 | 10 | 384.785 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 7 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.970136361 to 0.979795688 with period 4.31361 Days and zero-phase 2459064.1956318 HJD
Aperture PA Range 70 to 79 Degrees (V3 69.43873283 to 78.43873283)
Aperture PA Range 252 to 265 Degrees (V3 251.43873283 to 264.43873283)
Time Series Observation
No Parallel Attachments

Proposal 11779 - Observation 12 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | <p>Proposal 11779, Observation 12: HATS-48A b Transit</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: MAY 2026 UPDATES</i> <i>Changed to 5 groups and 16836 int/exp.</i> <i>Changed TA to CLEAR filter.</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|--|--------------------------|--------------------------|------------------|-----------------|--------------------|--|--|---------------------|-----------------|-------------|---------------|------|---------|-------|------------|-------|----------|--------|--------|--------|--|--|--|--|--|--|--|--|--|
| | <p>(HATS-48A b Transit (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.</p> <p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (11) | HATS-48 | RA: 19 14 41.2747 (288.6719779d) Dec: -59 34 45.76 (-59.57938d) Equinox: J2000 | Proper Motion RA: 3.172 mas/yr Proper Motion Dec: 6.153 mas/yr Parallax: 0.0036847" Epoch of Position: 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acquisition | <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>13 HATS-48-TA</td> <td>WATA</td> <td>SUB2048</td> <td>CLEAR</td> <td>NRSRAPIDD6</td> <td>3</td> <td>1</td> <td>1</td> <td>14.452</td> <td>301475</td> </tr> </tbody> </table> | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | 1 | 13 HATS-48-TA | WATA | SUB2048 | CLEAR | NRSRAPIDD6 | 3 | 1 | 1 | 14.452 | 301475 | | | | | | | | | |
| | # | Target | TA Method | Subarray | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | |
| 1 | 13 HATS-48-TA | WATA | SUB2048 | CLEAR | NRSRAPIDD6 | 3 | 1 | 1 | 14.452 | 301475 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | <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 | 16836 | 1 | 1 | 16836 | 23190.58 | 301475 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 12 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.947506119 to 0.96081107 with period 3.1316666 Days and zero-phase 2457955.4954300 HJD
Time Series Observation
No Parallel Attachments

Proposal 11779 - Observation 13 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | <p>Proposal 11779, Observation 13: TOI-1823 b Transit 1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: MAY 2026 UPDATES</i> <i>Changed int/exp to 6880.</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|--|------------|------------------|-----------------|---------------|--------------------|---------------------|-----------------|---|------|--------------------|--------------------------|--|--|--|---------------|--|--|--|------|----------|---|--|--|--|--|--|--|--|--|
| Diagnostics | <p>(TOI-1823 b 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> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <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>(12)</td> <td>TOI-1823</td> <td>RA: 13 04 52.8851 (196.2203546d) Dec: +63 45 13.65 (63.75379d) Equinox: J2000</td> <td colspan="4">Proper Motion RA: -65.168 mas/yr Proper Motion Dec: -123.03100004373846 mas/yr Parallax: 0.0139534" 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> <i>Description=[Exoplanets, K dwarfs]</i></p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | | | | Miscellaneous | | | | (12) | TOI-1823 | RA: 13 04 52.8851 (196.2203546d) Dec: +63 45 13.65 (63.75379d) Equinox: J2000 | Proper Motion RA: -65.168 mas/yr Proper Motion Dec: -123.03100004373846 mas/yr Parallax: 0.0139534" Epoch of Position: 2000 | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | | | | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | |
| (12) | TOI-1823 | RA: 13 04 52.8851 (196.2203546d) Dec: +63 45 13.65 (63.75379d) Equinox: J2000 | Proper Motion RA: -65.168 mas/yr Proper Motion Dec: -123.03100004373846 mas/yr Parallax: 0.0139534" Epoch of Position: 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | TA Method | | | | | Subarray | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NONE | | | | | SUB2048 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | # | Grating/Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Total Dithers | Total Integrations | Total Exposure Time | Optional ETC ID | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | G395M/F290LP | NRSRAPID | 5 | 6880 | 1 | 1 | 6880 | 37375.462 | 301475 | | | | | | | | | | | | | | | | | | | | | | |
| Special Requirements | <p>Phase 0.993866355 to 0.994940238 with period 38.8135498 Days and zero-phase 2460345.3485660 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 14 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Thu May 14 17:00:22 GMT 2026

| Observation | <p>Proposal 11779, Observation 14: TOI-1823 b Transit 2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p> <p><i>Comments: MAY 2026 UPDATES</i> <i>Changed to SUBSTRIP256 with 3 groups. Also updated F277W image to 3 groups.</i> <i>Changed int/exp to 1702.</i> <i>Chaged TA star to 19 groups.</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|---|--|-----------------|---------------|--------------------|---------------------|---------------------|-----------------|--|----------|--|--------------------|--------------------------|-----------------|---------------|--------------------|---|--|-----------------|----------|------|-----------|-------|----------|----|--------|---|------|----------|---|------|---|---|------|-----------|--------|---|----------|---|----|---|---|----|---------|--------|
| Diagnostics | <p>(TOI-1823 b 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>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (12) | TOI-1823 | RA: 13 04 52.8851 (196.2203546d) Dec: +63 45 13.65 (63.75379d) Equinox: J2000 | Proper Motion RA: -65.168 mas/yr Proper Motion Dec: -123.03100004373846 mas/yr Parallax: 0.0139534" 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 | 19 | 1 | 1 | 0.93 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | <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>true</td> </tr> </tbody> </table> | | | | | | | | | | Subarray | Include Short First Exposure and F277W Exposure? | SUBSTRIP256 | true | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subarray | Include Short First Exposure and F277W Exposure? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBSTRIP256 | true | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <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>3</td> <td>1702</td> <td>1</td> <td>1</td> <td>1702</td> <td>37438.009</td> <td>301475</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>219.965</td> <td>301475</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 | 3 | 1702 | 1 | 1 | 1702 | 37438.009 | 301475 | 3 | NISRAPID | 3 | 10 | 1 | 1 | 10 | 219.965 | 301475 |
| # | 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 | 3 | 1702 | 1 | 1 | 1702 | 37438.009 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | NISRAPID | 3 | 10 | 1 | 1 | 10 | 219.965 | 301475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 11779 - Observation 14 - Stalled Giants as a Key to Understanding Runaway Gas Accretion

Special Requirements

Phase 0.993866355 to 0.994940238 with period 38.8135498 Days and zero-phase 2460345.3485660 HJD
Aperture PA Range 130 to 150 Degrees (V3 129.43873283 to 149.43873283)
Aperture PA Range 200 to 270 Degrees (V3 199.43873283 to 269.43873283)
Aperture PA Range 300 to 345 Degrees (V3 299.43873283 to 344.43873283)
Time Series Observation
No Parallel Attachments