



# 2512 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Framework

Cycle: 1, Proposal Category: GO

## INVESTIGATORS

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Dr. Mercedes Lopez-Morales (CoI)	Space Telescope Science Institute
Dr. Natalie Batalha (CoI)	University of California - Santa Cruz
Dr. Mark S. Marley (CoI)	University of Arizona
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## OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
260.01 (x2)				
	1	TOI 260.01 (T1)	NIRSpec Bright Object Time Series	(1) TOI-260
	2	TOI 260.01 (T2)	NIRSpec Bright Object Time Series	(1) TOI-260
776.01 (x2)				
	3	TOI-776.01 (T1)	NIRSpec Bright Object Time Series	(5) TOI-776
	4	TOI-776.01 (T2)	NIRSpec Bright Object Time Series	(5) TOI-776
776.02 (x2)				

JWST Proposal 2512 (Created: Monday, January 13, 2025, 7:00:13PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	5	TOI-776.02 (T1)	NIRSpec Bright Object Time Series	(5) TOI-776
	6	TOI-776.02 (T2)	NIRSpec Bright Object Time Series	(5) TOI-776
562.01 (x1)				
	7	TOI-562.01 (T1)	NIRSpec Bright Object Time Series	(6) TOI-562
836.01 (x1)				
	8	TOI-836.01 (T1)	NIRSpec Bright Object Time Series	(7) TOI-836
836.02 (x2)				
	9	TOI-836.02 (T1)	NIRSpec Bright Object Time Series	(7) TOI-836
	10	TOI-836.02 (T2)	NIRSpec Bright Object Time Series	(7) TOI-836
134.01 (x3)				
	11	TOI-134.01 (T1)	NIRSpec Bright Object Time Series	(8) TOI-134
	12	TOI-134.01 (T2)	NIRSpec Bright Object Time Series	(8) TOI-134
	13	TOI-134.01 (T3)	NIRSpec Bright Object Time Series	(8) TOI-134
455.01 (x1)				
	14	TOI-455.01 (T1)	NIRSpec Bright Object Time Series	(9) TOI-455
	21	TOI-455.01 (T1)	NIRSpec Bright Object Time Series	(20) TOI-455-revised
	921	WOPR TOI-455.01 (T1 )	NIRSpec Bright Object Time Series	(20) TOI-455-revised
175.01 (x2)				
	15	TOI-175.01 (T1)	NIRSpec Bright Object Time Series	(3) TOI-175
	16	TOI-175.01 (T2)	NIRSpec Bright Object Time Series	(3) TOI-175
402.01 (x1)				
	17	TOI-402.01 (T1)	NIRSpec Bright Object Time Series	(16) TOI-402
402.02 (x2)				
	18	TOI-402.02 (T1)	NIRSpec Bright Object Time Series	(16) TOI-402
	19	TOI-402.02 (T2)	NIRSpec Bright Object Time Series	(16) TOI-402
19 WISEA Pre Imaging				
	20	19 WISEA	NIRCam Imaging	(19) WISEA-J030148.40-163532.7
TTRB Updated Pre Imaging TA REF 455				
	922	TTRB Updated Pre Imaging TA REF 455	NIRCam Imaging	(18) 455-TA-REF

## **ABSTRACT**

The last decades of exoplanet exploration have revealed that the diversity of planets within the Galaxy far exceeds that within our solar system. Specifically, Kepler revealed a new population of 1-3 Earth short period planets that seem to bridge the gap between giants and terrestrials in our own bimodal planetary system. Their bulk properties imply diminishingly thin hydrogen envelopes, producing an intermediate physical state between planets with predominantly primordial atmospheres and those with secondary atmospheres. However, we lack observations to determine whether this is truly the case, how such atmospheres are produced, and how similar or different they are to solar system planets. Atmospheric composition provides the necessary additional dimension to unveil the nature of this new class of planet, which we maintain will be JWST's greatest exoplanet legacy. We have carefully constructed the first exoplanet atmospheres survey designed to build a critical link between atmospheric characterization and planetary demographics. We will observe 11 transiting exoplanets, including four pairs of planets in the same system. By utilizing JWST's unique capabilities, we will measure the relative abundances of major molecular species expected to provide key insights into the formation and evolution pathways of exoplanets. Through our holistic approach we will analyze planets individually, within their own system architectures, and ultimately as a population. This will culminate in a program that will provide the community with a necessary kickstart to future information-rich observations of small planets, and will ultimately sculpt JWST's lasting legacy.

## **OBSERVING DESCRIPTION**

We will observe 11 planets around 8 stars, with 3 pairs of planets within the same stellar systems. We will observe each planet with the same observational mode and set-up for consistency. In total we will observe 19 individual transit events, where each planet's transit is observed between 1 - 3 times, to achieve the needed precision for the outlined science goals. We use NIRSpec in BOTS (Bright Object Time Series) mode, which requires the S1600A1 aperture with a fixed 1.6"x1.6" field of view (FoV). We will use the G395H/F290LP combination (2.87-5.27 microns) and SUB2048 subarray for all of our observations. This will ensure a uniform treatment of the data. This program is schedulable throughout cycle 1, and there are multiple opportunities throughout the year where our target stars are visible to JWST, each with multiple transit opportunities. Each observation must be scheduled to cover the transit of the planet. We have set the phase constraints to allow for a range of 60 minutes for the JWST observation start window for ease of scheduling. For each of our observations we will obtain a minimum of  $(2 \times \text{Transit duration}) + 1.75$  hours. We anticipate needing to discard a maximum of 0.75 hours of data at the start of each observation due to detector settling effects which result in a ramp-like increase in the flux measured which would be unusable in our analysis. Our targets have transit times ranging from 1.2 hours to 2.77 hours. We calculated the time needed for each of our observations based on our science goal of reaching 30ppm precision on all of our targets; in total, the time needed includes data prior to, during, and following the transit event to obtain an adequate baseline of the stellar flux. We will measure 19 transits over 11 targets with a science time of 85.21 hours, and a total charged time of 141.64 hours including the observatory resets, overheads, slewing, and

## JWST Proposal 2512 (Created: Monday, January 13, 2025, 7:00:13PM Eastern Standard Time) - Overview

target acquisition. As all of our targets are bright (J mag: 6.4 - 7.6), therefore we will conduct target acquisition (TA) on alternative targets to avoid saturation. For TA we will utilize the Wide Aperture Target Acquisition (WATA) mode on targets that are within the visit splitting distance of each of our target stars. We have selected sources with valid 2MASS J magnitudes and Gaia DR2 proper motions to ensure they are suitable for accurate TA. We used VizieR and Aladin to validate our sources, and the online STScI ETC to determine the set-up required. For 8/11 of our targets we will use the SUB32 subarray with the clear filter, for 2/11 we will use SUB2048 with the clear filter, and 1/11 requires the full field with the clear filter to achieve the needed signal-to-noise for TA. We will double check each of these with scheduling prior to conducting the observations to ensure success of the program.

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#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	TOI-260	RA: 00 19 5.5243 (4.7730179d) Dec: -09 57 58.14 (-9.96615d) Equinox: J2000	Proper Motion RA: -0.0024769094763926838 sec of time/yr Proper Motion Dec: -0.301435000096717 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Star            Description=[Exoplanets]            Extended=NO</p>				
(2)	260-TA-REF	RA: 00 19 4.9761 (4.7707337d) Dec: -09 57 34.35 (-9.95954d) Equinox: J2000	Proper Motion RA: 17.227 mas/yr Proper Motion Dec: -14.517 mas/yr Parallax: 0.0007737" Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the 2MASS database.</i>            Gaia DR2 2428162406493855744  <a href="https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa95c9b6902&amp;-out.add=&amp;-source=1/345/gaia2&amp;-c=004.77080912111%20-09.95960445301,eq=ICRS,rs=2&amp;-out.orig=o">https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa95c9b6902&amp;-out.add=&amp;-source=1/345/gaia2&amp;-c=004.77080912111%20-09.95960445301,eq=ICRS,rs=2&amp;-out.orig=o</a>            2MASS 00190502-0957345            JMag = 16.14</p> <p><i>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.</i></p> <p><i>Dear Johanna,</i></p> <p><i>Thanks for reaching out.</i></p> <p><i>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.</i></p> <p><i>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.</i></p> <p><i>Best Wishes,</i>            Nikolay            Category=Unidentified            Description=[Infrared sources, Visible sources]</p>				
(3)	TOI-175	RA: 08 18 7.8865 (124.5328604d) Dec: -68 18 52.08 (-68.31447d) Equinox: J2000	Proper Motion RA: 0.017102549351990327 sec of time/yr Proper Motion Dec: -0.34008400002676353 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=Star            Description=[Exoplanet Systems, M dwarfs]            Extended=NO</p>				

Fixed Targets

# Proposal 2512 - Targets - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Framework

(4) 175-TA-REF RA: 08 17 58.5265 (124.4938604d) Proper Motion RA: 0.471 mas/yr  
 Dec: -68 18 57.14 (-68.31587d) Proper Motion Dec: 9.750 mas/yr  
 Equinox: J2000 Parallax: 0.0004498"  
 Epoch of Position: 2015.5

Comments: 2MASS 08175852-6818572 - <https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa962c973ee&-out.add=.&-source=II/246/out&2MASS===08175852-6818572>  
 Gaia DR2 5271054865206500224 - <https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa962c973ee&-out.add=.&-source=I/345/gaia2&-c=124.49386581031%20-68.31583075341,eq=ICRS,rs=2&-out.orig=o>

J mag = 16.4Jmag 2MASS  
 51.4" away from target but within the visit splitting distance of 65"

NOTE: DIFFERENT FROM GTO PROGRAM TA reference star from GAIA DR2, ID 5271055170147005696 GMag 20.4332 with unknown Jmag

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

Category=Unidentified

Description=[Infrared sources, Visible sources]

(5) TOI-776 RA: 11 54 18.7193 (178.5779971d) Proper Motion RA: 0.021116414998593572 sec of time/yr  
 Dec: -37 33 12.08 (-37.55336d) Proper Motion Dec: -0.1450590001013552 arcsec/yr  
 Equinox: J2000 Epoch of Position: 2015.5

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

Category=Star

Description=[Exoplanets]

Extended=NO

(6) TOI-562 RA: 09 36 1.7915 (144.0074646d) Proper Motion RA: 0.009949091869526031 sec of time/yr  
 Dec: -21 39 54.23 (-21.66506d) Proper Motion Dec: -0.9903110000777815 arcsec/yr  
 Equinox: J2000 Epoch of Position: 2015.5

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

Category=Star

Description=[Exoplanets]

Extended=NO

(7) TOI-836 RA: 15 00 19.1712 (225.0798800d) Proper Motion RA: -0.014663418930896694 sec of time/yr  
 Dec: -24 27 15.11 (-24.45420d) Proper Motion Dec: -0.027039999986300245 arcsec/yr  
 Equinox: J2000 Epoch of Position: 2015.5

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

Category=Star

Description=[Exoplanets]

Extended=NO

## Proposal 2512 - Targets - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Framework

(8)	TOI-134	RA: 23 20 6.8620 (350.0285917d) Dec: -60 03 56.63 (-60.06573d) Equinox: J2000	Proper Motion RA: -0.04274643160953483 sec of time/yr Proper Motion Dec: -0.12778100001469284 arcsec/yr Epoch of Position: 2015.5
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*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*

*Category=Star*

*Description=[Exoplanets]*

*Extended=NO*

(9)	TOI-455	RA: 03 01 50.9947 (45.4624779d) Dec: -16 35 40.18 (-16.59449d) Equinox: J2000	Proper Motion RA: -0.025682752912145126 sec of time/yr Proper Motion Dec: -0.26851000000078784 arcsec/yr Epoch of Position: 2015.5
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*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*

*Category=Star*

*Description=[Exoplanets]*

*Extended=NO*

(11)	776-TA-REF	RA: 11 54 16.5210 (178.5688375d) Dec: -37 33 1.71 (-37.55048d) Equinox: J2000	Proper Motion RA: 10.407 mas/yr Proper Motion Dec: -0.139 mas/yr Parallax: 0.0004726 " Epoch of Position: 2015.5
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*Comments: This object was generated by the targetselector and retrieved from the 2MASS database.*

*2MASS 11541652-3733017*

*Gaia DR2 3460438662009633024 (<https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa554d90616&-out.add=&-source=1/345/gaia2&-c=178.56889388987%20-37.55047454330,eq=ICRS,rs=2&-out.orig=o>)*

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*Best Wishes,*

*Nikolay*

*Category=Unidentified*

*Description=[Infrared sources, Visible sources]*

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(12) 562-TA-REF RA: 09 36 5.1310 (144.0213792d) Proper Motion RA: 6.968 mas/yr  
 Dec: -21 39 30.49 (-21.65847d) Proper Motion Dec: -10.007 mas/yr  
 Equinox: J2000 Parallax: 0.0010021"  
 Epoch of Position: 2015.5

*Comments: This object was generated by the targetselector and retrieved from the 2MASS database.*

2MASS 09360513-2139304

*Jmag = 15.753*

*49.5" away from target within visit splitting distance of 60"*

Gaia DR2 5664811247788711040

<https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa57df471b4&-out.add=.&-source=I/345/gaia2&-c=144.02141124795%20-21.65851205484,eq=ICRS,rs=2&-out.orig=o>

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*Best Wishes,*

*Nikolay*

*Category=Unidentified*

*Description=[Infrared sources, Visible sources]*

(13) 836-TA-REF RA: 15 00 18.7668 (225.0781950d) Proper Motion RA: -16.793 mas/yr  
 Dec: -24 27 2.37 (-24.45066d) Proper Motion Dec: 1.776 mas/yr  
 Equinox: J2000 Parallax: 0.0019482"  
 Epoch of Position: 2015.5

*Comments: This object was generated by the targetselector and retrieved from the 2MASS database.*

2MASS 15001874-2427022

*Jmag 16.2*

*15.2" away from target within visit splitting distance of 55"*

Gaia DR2 6230733932759651840

<https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa58b1e7280&-out.add=.&-source=I/345/gaia2&-c=225.07811546298%20-24.45065146946,eq=ICRS,rs=2&-out.orig=o>

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*Best Wishes,*

*Nikolay*

*Category=Unidentified*

*Description=[Infrared sources, Visible sources]*

# Proposal 2512 - Targets - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Framework

(14) 134-TA-REF RA: 23 20 3.6948 (350.0153950d) Proper Motion RA: 14.353 mas/yr  
 Dec: -60 04 16.32 (-60.07120d) Proper Motion Dec: -8.695 mas/yr  
 Equinox: J2000 Parallax: 0.0008448"  
 Epoch of Position: 2015.5

*Comments: This object was generated by the targetselector and retrieved from the 2MASS database.  
 2MASS 23200368-6004163  
 Jmag = 15.023  
 36" away from target within visit splitting distance of 40"*

*Gaia DR2 6490461089163448960  
<https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fa58ea97940&-out.add=&-source=I/345/gaia2&-c=350.01551870967%20-60.07123789579,eq=ICRS,rs=2&-out.orig=o>*

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*Best Wishes,  
 Nikolay  
 Category=Unidentified  
 Description=[Infrared sources, Visible sources]*

(16) TOI-402 RA: 02 27 28.2923 (36.8678846d) Proper Motion RA: -0.00553780008952981 sec of  
 Dec: -27 38 10.02 (-27.63612d) time/yr  
 Equinox: J2000 Proper Motion Dec: -0.21161399999982677 arcsec/yr  
 Epoch of Position: 2015.5

*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.  
 Category=Star  
 Description=[Exoplanet Systems, Exoplanets]  
 Extended=NO*

# Proposal 2512 - Targets - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Framework

(17) 402-TA-REF RA: 02 27 26.9044 (36.8621017d) Proper Motion RA: -1.152 mas/yr  
 Dec: -27 38 19.57 (-27.63877d) Proper Motion Dec: -4.095 mas/yr  
 Equinox: J2000 Parallax: 0.0009957"  
 Epoch of Position: 2015.5

*Comments: Gaia DR2 5068777809825770112  
 y Mag = 18.19 (Pan-STARRS)  
 23.4" away from target*

*DR2 - <https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fabc350224d&-out.add=.&-source=I/345/gaia2&-c=036.86209623802%20-27.63878617175,eq=ICRS,rs=2&-out.orig=o>  
 Pan-STARRS - <https://vizier.u-strasbg.fr/viz-bin/VizieR-5?-ref=VIZ5fabc350224d&-out.add=.&-source=II/349/ps1&-c=036.862098320%20-27.638782980,eq=J2000,rs=2&-out.orig=o>*

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*Best Wishes,*

*Nikolay*

*Category=Unidentified*

*Description=[Infrared sources, Visible sources]*

(18) 455-TA-REF 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 r 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>*

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*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 2512 - Targets - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Framework

(19)	WISEA-J030148.40-163532.7	RA: 03 01 48.4032 (45.4516800d) Dec: -16 35 32.75 (-16.59243d) Equinox: J2000	Proper Motion RA: 5 mas/yr Proper Motion Dec: 476 mas/yr Epoch of Position: 2010.5589
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>  <i>Category=Star</i>  <i>Description=[Exoplanets]</i>  <i>Extended=NO</i></p>			
(20)	TOI-455-revised	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.9309999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000
<p><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>  <i>Category=Star</i>  <i>Description=[Exoplanets]</i></p>			

Proposal 2512 - Observation 1 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 1: TOI 260.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: HIP-1532</i></p> <p>2023-11-1: Updated Special Requirements to reflect new information from CHEOPS</p>																															
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<b>Special Requirements</b>	<p>Phase 0.9904076637 to 0.9934996147 with period 13.4759 Days and zero-phase 2459847.6884 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 1, 2 within 15 Days</p>																															

Proposal 2512 - Observation 2 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 2: TOI 260.01 (T2)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: HIP-1532</i></p> <p>2023-11-1: Updated Special Requirements to reflect new information from CHEOPS</p>																																
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Proposal 2512 - Observation 3 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 3: TOI-776.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: LP-961-53</i></p>																															
<b>Diagnostics</b>	<p>(TOI-776.01 (T1) (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>																															
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<b>Special Requirements</b>	<p>Phase 0.9903925172 to 0.9930523237 with period 15.66531838 Days and zero-phase 2459324.5347620 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 3, 4 within 22 Days</p>																															

Proposal 2512 - Observation 4 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 4: TOI-776.01 (T2)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: LP-961-53</i></p>																																
<b>Diagnostics</b>	<p>(TOI-776.01 (T2) (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.</p> <p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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Proposal 2512 - Observation 5 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 5: TOI-776.02 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: LP-961-53</i></p>																															
<b>Diagnostics</b>	<p>(TOI-776.02 (T1) (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.</p> <p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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<b>Special Requirements</b>	<p>Phase 0.9789812621994574 to 0.9840338434015108 with period 8.24661 Days and zero-phase 2458571.4167 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 5, 6 within 22 Days</p>																															

Proposal 2512 - Observation 6 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 6: TOI-776.02 (T2)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: LP-961-53</i></p>																																
<b>Diagnostics</b>	<p>(TOI-776.02 (T2) (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.</p> <p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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<b>Special Requirements</b>	<p>Phase 0.9789812621994574 to 0.9840338434015108 with period 8.24661 Days and zero-phase 2458571.4167 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 5, 6 within 22 Days</p>																																

Proposal 2512 - Observation 7 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 7: TOI-562.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: HIP-47103</i></p> <p>2023-11-1: Updated Special Requirements to reflect new information from CHEOPS</p>																																
<b>Diagnostics</b>	<p>(TOI-562.01 (T1) (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.</p> <p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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1	G395H/F290LP	NRSRAPID	3	4401	1	1	4401	15968.94	59089																								
<b>Special Requirements</b>	<p>Phase 0.9737854134 to 0.9843860089 with period 3.930600 Days and zero-phase 2459272.6757 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p>																																

Proposal 2512 - Observation 8 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 8: TOI-836.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: HIP-73427</i></p>																															
<b>Diagnostics</b>	<p>(TOI-836.01 (T1) (Obs 8)) 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 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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1	G395H/F290LP	NRSRAPID	3	6755	1	1	6755	24510.382	59089																							
<b>Special Requirements</b>	<p>Phase 0.979318677776568 to 0.984166187228591 with period 8.59545 Days and zero-phase 2458599.762300 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p>																															

Proposal 2512 - Observation 9 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Frame...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 9: TOI-836.02 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: HIP-73427</i></p>																															
<b>Diagnostics</b>	<p>(TOI-836.02 (T1) (Obs 9)) 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 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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1	G395H/F290LP	NRSRAPID	3	5259	1	1	5259	19082.176	59089																							
<b>Special Requirements</b>	<p>Phase 0.9703541009 to 0.9812709612 with period 3.8167262 Days and zero-phase 2458599.9953 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 9, 10 within 9 Days</p>																															

Proposal 2512 - Observation 10 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 10: TOI-836.02 (T2)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: HIP-73427</i></p>																																
<b>Diagnostics</b>	<p>(TOI-836.02 (T2) (Obs 10)) 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 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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<b>Special Requirements</b>	<p>Phase 0.9703541009 to 0.9812709612 with period 3.8167262 Days and zero-phase 2458599.9953 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 9, 10 within 9 Days</p>																																

Proposal 2512 - Observation 11 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 11: TOI-134.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: GJ-4332</i></p>																																
<b>Diagnostics</b>	<p>(TOI-134.01 (T1) (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.</p> <p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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<b>Special Requirements</b>	<p>Phase 0.9335908996 to 0.9633209508 with period 1.4015272 Days and zero-phase 2459082.857000 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 11, 12, 13 within 28 Days</p>																																

Proposal 2512 - Observation 12 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 12: TOI-134.01 (T2)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: GJ-4332</i></p>																																
<b>Diagnostics</b>	<p>(TOI-134.01 (T2) (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>																																
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<b>Special Requirements</b>	<p>Phase 0.9335908996 to 0.9633209508 with period 1.4015272 Days and zero-phase 2459082.857000 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 11, 12, 13 within 28 Days</p>																																

Proposal 2512 - Observation 13 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 13: TOI-134.01 (T3)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: GJ-4332</i></p>																																
<b>Diagnostics</b>	<p>(TOI-134.01 (T3) (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>																																
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Proposal 2512 - Observation 14 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 14: TOI-455.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: GJ-3193-A / LTT 1445 A</i></p> <p><i>Triple star system</i></p> <p><i>Needs to be conducted after NIRCcam Pre imaging of WISEA</i></p>																																
<b>Diagnostics</b>	<p>(TOI-455.01 (T1) (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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<b>Special Requirements</b>	<p>Phase 0.9833030873 to 0.9910785097 with period 5.3587657 Days and zero-phase 2458412.70851 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>14 After 20 by 60 Days to 425 Days</p>																																

Proposal 2512 - Observation 21 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 21: TOI-455.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: GJ-3193-A / LTT 1445 A</i></p> <p><i>Triple star system</i></p> <p><i>Needs to be conducted after NIRCам Pre imaging of WISEA</i></p> <p>2024-07-24: Updated TA star subarray to SUB32 to avoid saturation.</p> <p>2024-07-24: Update target to new target 20 TOI-455-revised to use most up-to-date target resolver coordinates and proper motions.</p> <p>2023-11-1: Updated TA star to be Fixed Target 18 (455-TA-REF). Adjusted Special Requirements phase range to optimize transit centering.</p>																																
	<b>Diagnostics</b>	<p>(TOI-455.01 (T1) (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.</p> <p>(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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Proposal 2512 - Observation 21 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Special Requirements

Phase 0.9803030873 to 0.9880785097 with period 5.3587657 Days and zero-phase 2458412.70851 HJD  
Time Series Observation  
No Parallel Attachments

Proposal 2512 - Observation 921 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fra...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 921: WOPR TOI-455.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: GJ-3193-A / LTT 1445 A</i></p> <p><i>Triple star system</i></p> <p><i>Needs to be conducted after NIRCам Pre imaging of WISEA</i></p> <p>2024-07-24: Updated TA star subarray to SUB32 to avoid saturation.</p> <p>2024-07-24: Update target to new target 20 TOI-455-revised to use most up-to-date target resolver coordinates and proper motions.</p> <p>2023-11-1: Updated TA star to be Fixed Target 18 (455-TA-REF). Adjusted Special Requirements phase range to optimize transit centering.</p>																																
	<p>(WOPR TOI-455.01 (T1) (Obs 921)) 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 921:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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Proposal 2512 - Observation 921 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fra...

Special Requirements

Phase 0.9803030873 to 0.9880785097 with period 5.3587657 Days and zero-phase 2458412.70851 HJD  
Time Series Observation  
No Parallel Attachments  
921 After 922 by 42 Days to <None specified>

Proposal 2512 - Observation 15 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 15: TOI-175.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: L98-59c</i></p>																															
<b>Diagnostics</b>	<p>(TOI-175.01 (T1) (Obs 15)) 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 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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<b>Special Requirements</b>	<p>Phase 0.9753553359 to 0.986645042 with period 3.6906777 Days and zero-phase 2458367.273750 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 15, 16 within 37 Days</p>																															

Proposal 2512 - Observation 16 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 16: TOI-175.01 (T2)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: L98-59c</i></p>																															
<b>Diagnostics</b>	<p>(TOI-175.01 (T2) (Obs 16)) 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 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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Proposal 2512 - Observation 17 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 17: TOI-402.01 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: HD-15337</i></p>																																
<b>Diagnostics</b>	<p>(TOI-402.01 (T1) (Obs 17)) 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 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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1	G395H/F290LP	NRSRAPID	4	5500	1	1	5500	24917.64	57035																								
<b>Special Requirements</b>	<p>Phase 0.9621240545 to 0.9708849664 with period 4.75597367928781 Days and zero-phase 2458411.463494 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p>																																

Proposal 2512 - Observation 18 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 18: TOI-402.02 (T1)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Bright Object Time Series</p> <p><i>Comments: Alternate name: HD-15337</i></p>																																
<b>Diagnostics</b>	<p>(TOI-402.02 (T1) (Obs 18)) 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 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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<b>Special Requirements</b>	<p>Phase 0.992342858 to 0.9947680569 with period 17.180721 Days and zero-phase 2458414.55 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 18, 19 within 37 Days</p>																																

Proposal 2512 - Observation 19 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 19: TOI-402.02 (T2)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSspec Bright Object Time Series</p> <p><i>Comments: Alternate name: HD-15337</i></p>																																
<b>Diagnostics</b>	<p>(TOI-402.02 (T2) (Obs 19)) 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 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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<b>Special Requirements</b>	<p>Phase 0.992342858 to 0.9947680569 with period 17.180721 Days and zero-phase 2460149.75614 HJD</p> <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 18, 19 within 37 Days</p>																																

Proposal 2512 - Observation 20 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fram...

Tue Jan 14 00:00:13 GMT 2025

<b>Observation</b>	<p><b>Proposal 2512, Observation 20: 19 WISEA</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p> <p><i>Comments: This addition is based on the approved TTRB: The only TA star within the visit splitting distance of target LTT 1445A b/TOI-455.01 (AllWISE J030148.40-163532.7) has imprecise proper motion -- there is disagreement between historical astrometric catalogs (e.g., AllWISE, USNO-A2.0, GCSC2.3, VHS) at the ~1 arcsec level or more. If the proper motions of this TA target are off by 2 sigma, then the separation between LTT 1445A b and the TA source decreases from 37.71 arcsec to 36.71 arcsec (offset of 1 arcsec). Therefore, if we blindly offset from a TA on the TA target to LTT 1445 A, the science target could be outside the 1.6 x 1.6 arcsec aperture. Poor centering in the aperture would increase flux variations due to clipping of the PSF wings by the aperture. We cannot assume that initial pointing accuracy after guide star acquisition and before NIRSpec target acquisition will be accurate enough for our observation, so we need to obtain better proper motion of the TA target. On top of the TA proper motion uncertainty, the components of LTT 1445 (a high proper motion triple system) move significantly relative to each other than the TA star. In order to ensure accurate pointing for our observations and their scientific integrity, we propose adding NIRCam F115W+F444W imaging of the TA target (AllWISE J030148.40-163532.7 with J=18.3). In order to obtain precise proper motions on a J=18.3 target, we require 472.42 seconds of total exposure time (4 INTRASCA SMALL dithers) to achieve S/N=370/622 in F115W/F444W, respectively. With an additional 1800 seconds of slew time, this would lead to an additional 37 minutes (rounding up 1 hour) of program charge time (an increase of 0.43%, or rounding up 0.7%, to our program time). Our proposed TA observing setup can be seen in JWST ETC Workbook ID: 88486.</i></p>									
	<p>(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(19)	WISEA-J030148.40-163532.7	RA: 03 01 48.4032 (45.4516800d) Dec: -16 35 32.75 (-16.59243d) Equinox: J2000	Proper Motion RA: 5 mas/yr Proper Motion Dec: 476 mas/yr Epoch of Position: 2010.5589						
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Category=Star Description=[Exoplanets] Extended=NO</p>										
<b>Template</b>	<b>Module</b>					<b>Subarray</b>				
	B					FULLP				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>	<b>Dither Size</b>	<b>Subpixel Positions</b>			
	1	INTRASCA		4	STANDARD	8" (SMALL)	1			
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F115W	F444W	RAPID	10	1	4	4	429.471	

Special Requirements

14 After 20 by 60 Days to 425 Days

Proposal 2512 - Observation 922 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fra...

<b>Observation</b>	<p><b>Proposal 2512, Observation 922: TTRB Updated Pre Imaging TA REF 455</b> <span style="float: right;">Tue Jan 14 00:00:13 GMT 2025</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p> <p><i>Comments: This addition is based on the approved TTRB: The only TA star within the visit splitting distance of target LTT 1445A b/TOI-455.01 (AllWISE J030148.40-163532.7) has imprecise proper motion -- there is disagreement between historical astrometric catalogs (e.g., AllWISE, USNO-A2.0, GCSC2.3, VHS) at the ~1 arcsec level or more. If the proper motions of this TA target are off by 2 sigma, then the separation between LTT 1445A b and the TA source decreases from 37.71 arcsec to 36.71 arcsec (offset of 1 arcsec). Therefore, if we blindly offset from a TA on the TA target to LTT 1445 A, the science target could be outside the 1.6 x 1.6 arcsec aperture. Poor centering in the aperture would increase flux variations due to clipping of the PSF wings by the aperture. We cannot assume that initial pointing accuracy after guide star acquisition and before NIRSpec target acquisition will be accurate enough for our observation, so we need to obtain better proper motion of the TA target. On top of the TA proper motion uncertainty, the components of LTT 1445 (a high proper motion triple system) move significantly relative to each other than the TA star. In order to ensure accurate pointing for our observations and their scientific integrity, we propose adding NIRCam F115W+F444W imaging of the TA target (AllWISE J030148.40-163532.7 with J=18.3). In order to obtain precise proper motions on a J=18.3 target, we require 472.42 seconds of total exposure time (4 INTRASCA SMALL dithers) to achieve S/N=370/622 in F115W/F444W, respectively. With an additional 1800 seconds of slew time, this would lead to an additional 37 minutes (rounding up 1 hour) of program charge time (an increase of 0.43%, or rounding up 0.7%, to our program time). Our proposed TA observing setup can be seen in JWST ETC Workbook ID: 88486.</i></p>																
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<b>Template</b>	<b>Module</b>		<b>Subarray</b>														
	B		FULL														
<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Dither Type</th> <th>Dither Size</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRASCA</td> <td>4</td> <td>STANDARD</td> <td>8" (SMALL)</td> <td>1</td> </tr> </tbody> </table>					#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions	1	INTRASCA	4	STANDARD	8" (SMALL)	1
	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions											
1	INTRASCA	4	STANDARD	8" (SMALL)	1												

Proposal 2512 - Observation 922 - Seeing the Forest and the Trees: Unveiling Small Planet Atmospheres with a Population-Level Fra...

Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
		1	F115W	F444W	RAPID	10	1	4	4	429.471
Special Requirements	Offset 24.0 arcsec, 38.0 arcsec									
	921 After 922 by 42 Days to <None specified>									