5924 - JWST's Exoplanet Grand Tour Spectroscopic Survey

Cycle: 3, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

Folder	Observation	Label	Observing Template	Science Target
Observation Folder				
	1	HAT-P-11_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(1) HAT-P-11
	2	WASP-69_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(2) WASP-69

Folder	Observation	Label	Observing Template	Science Target
	3	WASP-80_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(3) WASP-80
	4	WASP-94Ab_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(4) WASP-94A
	5	NGTS-2_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(5) NGTS-2
	6	HAT-P-30_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(6) HAT-P-30
	7	KELT-7_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(7) KELT-7
	8	HAT-P-1_NIRSpec_G395H - Transit	NIRSpec Bright Object Time Series	(8) HAT-P-1
	9	WASP-63_NIRSpec_G395H - Transit	NIRSpec Bright Object Time Series	(9) WASP-63
	10	HATS-72 NIRSPec_Prism - Transit	NIRSpec Bright Object Time Series	(10) HATS-72
	11	WASP-6_NIRSpec_Prism - Transit	NIRSpec Bright Object Time Series	(11) WASP-6
	16	WASP-6_NIRSpec_Prism - Transit	NIRSpec Bright Object Time Series	(11) WASP-6
	12	WASP-19_NIRSpec_Prism - Transit	NIRSpec Bright Object Time Series	(12) WASP-19
	13	WASP-12_NIRSpec_Prism - Transit	NIRSpec Bright Object Time Series	(13) WASP-12
WASP-76				
	14	WASP-76_NIRISS_SOSS - Transit	NIRISS Single-Object Slitless Spectroscopy	(14) WASP-76
	15	WASP-76A & B NIRCam Imaging	NIRCam Imaging	(14) WASP-76

ABSTRACT

During their Grand Tour, the Voyager spacecraft revolutionized our view of the solar system, making more fundamental discoveries about different planetary environments than any mission before or since. Thousands of exoplanets are now known, and with the transformative capabilities of JWST, a Grand Tour of the exoplanets can now begin. How exoplanets form and their overall composition and chemical makeup remain major outstanding issues, and we seek to make progress on the underlying physical processes of these topics by unlocking the rich spectra of exoplanetary atmospheres,

synergizing JWST's capabilities with HST. Here, we propose a first-generation JWST-HST exoplanet statistical survey covering giant planets from Neptune to Jupiter sizes. With a wide comprehensive survey across the major giant planet types and temperatures, our Grand Tour will establish a legacy dataset of high-quality exoplanet spectra early in JWST's lifetime. Without this frame of reference, the multitude of single-planet JWST studies will be hard to place in the context of the wider perspective, and rich areas of discovery can be easily overlooked. This program synthesizes the discordant Cycle 1 & 2 observations by carefully selecting 142 hours of complimentary key targets and wavelengths, leveraging the entire set into a 1st generation 350-hour Treasury-level 25 planet survey, a true exoplanet Grand Tour. A statistically significant number of planets will be available in JWST's first few cycles, enabling comparison studies which will provide immediate progress in answering several longstanding key questions relevant to all exoplanet types regarding their atmospheric chemistry and formation.

OBSERVING DESCRIPTION

For all targets, we calculated the optimal detector readout patters and groups per integration using STScI's ExoCTK (https://exoctk.stsci.edu) and the official JWST ETC (https://jwst.etc.stsci.edu/). The integrations per exposure required to cover each transit event and the and signal-to-noise ratios achieved on the exoplanet transmission spectra were calculated using PandEXO (https://exoctk.stsci.edu/pandexo/).

NIRSpec G395H SNR: For 4 targets, we will use the NIRSpec G395H/F290LP, using the 1.6"×1.6" fixed slit aperture with the Bright Object Time Series (BOTS) mode optimized for transit exoplanets enabling high photometric precision time-series spectroscopy. The SUB2048 subarray will be used to improve duty cycles and capture the full 2.8 to 5.1 μm range at a resolution of R~3000. All of our targets will used the NRSRAPID readout pattern, with the groups and integrations optimized using PandEXO. The groups/integration for the targets range from 7 to 67, with the number of integrations ranging from 311 for the faintest target to 3343 for the brightest. For our targets (J=7.2 to 11.2) we obtain per integration, per resolution element for our targets, signal-to-noise levels ranging from 80 to 200 over the G395H wavelength range.

NIRSpec Prism SNR: For 3 targets, we will use the NIRSpec prism, and the BOTS mode utilizing the 1.6"×1.6" fixed slit aperture to obtain precise spectrophotometry of the exoplanet transits. All of our targets will used the NRSRAPID readout pattern, with the groups and integrations optimized using PandEXO. The groups/integration for the targets range from 2 to 3, with the number of integrations ranging from 25,744 for the faintest target to 53,475 for the brightest. The SUB512 subarray will be used to improve duty cycles and capture the target spectra between 0.6 and 5.2 m. The brightest prism target WASP-12b requires the SUB512S subarray. We obtain per integration, per resolution element for our targets, signal-to-noise levels ranging from 20 to 175 over the 0.62 to 5.3 μm wavelength range.

NIRISS SOSS SNR: For 9 targets, we will use the NIRISS GR700XD with the SUBSTRIP256 subarray, which provides broad 0.6-2.8 μm coverage

at a R~700. NISRAPID with 7 to 8 groups with 857 to 3099 integrations. For our targets (J=7.7 to 10.4) we get SNR levels per integration, per resolution element ranging from 126 to 728. The brightest targets (HAT-P-11, KELT-7, WASP-69, WASP-76) require the SUBSTRIP96 subarray with to avoid saturation. For KELT-7 & HAT-P-11, Group 3 will saturate in about 300 pixels of the extracted spectra and we will use the non-saturated group 2 during extraction for these pixels. As experience has shown 3 groups provides better data quality, we have elected to keep a minimum of 3 groups such that the non-saturated regions (0.8-1 & 1.4-1.8) get high quality data.

To avoid spectra contamination of nearby stars, we have added position angle constraints to the observations using the ExoCTK tool (https://exoctk.stsci.edu/contam_visibility), which indicates all of our targets will be observable largly free of contamination.

HST UVIS: Three targets do not have HST NUV coverage. We will follow the observing strategy of GO-17162 and GO-17183 for HST/UVIS. We will obtain two transit observations using the WFC3/G280 grism (0.2-1.0 m) for our targets NGTS-2b and HAT-P-30b and three transits of HATS-72b for a total of 24 orbits. For each transit, we will observe the pre-transit out-of-transit baseline, followed by observation of the transit event and ending with observation of the post-transit out-of-transit baseline. This requires 3 HST orbits per transit for both NGTS-2b and HAT-P-30b and four orbits for HATS-72b.

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HAT-P-11	RA: 19 50 50.2473 (297.7093637d)	Proper Motion RA: 126.09500000000001 mas/yr	
		Dec: +48 04 51.10 (48.08086d)	Proper Motion Dec: 232.726 mas/yr	
		Equinox: J2000	Parallax: 0.0264274"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	WASP-69	RA: 21 00 6.1968 (315.0258200d)	Proper Motion RA: 33.778 mas/yr	
		Dec: -05 05 40.03 (-5.09445d)	Proper Motion Dec: -93.58100010103954 mas/yr	
		Equinox: J2000	Parallax: 0.0198858"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	WASP-80	RA: 20 12 40.1693 (303.1673721d)	Proper Motion RA: -132.913 mas/yr	
		Dec: -02 08 39.19 (-2.14422d)	Proper Motion Dec: -50.683000017670565 mas/yr	
		Equinox: J2000	Parallax: 0.0201141"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	WASP-94A	RA: 20 55 7.9444 (313.7831017d)	Proper Motion RA: 26.5 mas/yr	
		Dec: -34 08 8.01 (-34.13556d)	Proper Motion Dec: -44.971000056648336 mas/yr	
		Equinox: J2000	Parallax: 0.004749799999999999"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Fixed Targets

(5)	NGTS-2	RA: 14 20 29.4891 (215.1228713d)	Proper Motion RA: -21.786 mas/yr
		Dec: -31 12 7.44 (-31.20207d)	Proper Motion Dec: -0.9060000365934684 mas/yr
		Equinox: J2000	Parallax: 0.0027764"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(6)	HAT-P-30	RA: 08 15 47.9802 (123.9499175d)	Proper Motion RA: -17.231 mas/yr
		Dec: +05 50 12.35 (5.83676d)	Proper Motion Dec: 23.875 mas/yr
		Equinox: J2000	Parallax: 0.0048037"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(7)	KELT-7	RA: 05 13 10.9289 (78.2955371d)	Proper Motion RA: 10.477 mas/yr
		Dec: +33 19 5.40 (33.31817d)	Proper Motion Dec: -49.619999936112436 mas/yr
		Equinox: J2000	Parallax: 0.0073792"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(8)	HAT-P-1	RA: 22 57 46.8442 (344.4451842d)	Proper Motion RA: 32.422 mas/yr
		Dec: +38 40 30.36 (38.67510d)	Proper Motion Dec: -41.94900002403301 mas/yr
		Equinox: J2000	Parallax: 0.0062438"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(9)	WASP-63	RA: 06 17 20.7485 (94.3364521d)	Proper Motion RA: -17.469 mas/yr
		Dec: -38 19 23.75 (-38.32326d)	Proper Motion Dec: -27.29199998157128 mas/yr
		Equinox: J2000	Parallax: 0.0034609000000000003"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(10)	HATS-72	RA: 22 36 6.3190 (339.0263292d)	Proper Motion RA: -108.585 mas/yr
		Dec: -16 59 59.79 (-16.99994d)	Proper Motion Dec: -84.43700000952958 mas/yr
		Equinox: J2000	Parallax: 0.007888"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(11)	WASP-6	RA: 23 12 37.7368 (348.1572367d)	Proper Motion RA: -23.264 mas/yr
		Dec: -22 40 26.27 (-22.67396d)	Proper Motion Dec: -37.14300009960425 mas/yr
		Equinox: J2000	Parallax: 0.0050073"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(12)	WASP-19	RA: 09 53 40.0766 (148.4169858d)	Proper Motion RA: -35.457 mas/yr
		Dec: -45 39 33.06 (-45.65918d)	Proper Motion Dec: 17.378 mas/yr
		Equinox: J2000	Parallax: 0.0037516"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

(13)	WASP-12	RA: 06 30 32.7966 (97.6366525d)	Proper Motion RA: -1.519 mas/yr
		Dec: +29 40 20.26 (29.67229d)	Proper Motion Dec: -6.761000054211763 mas/yr
		Equinox: J2000	Parallax: 0.0024213"
			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.
Category=Star
Description=[Exoplanet Systems]

(14)	WASP-76	RA: 01 46 31.8576 (26.6327400d)	Proper Motion RA: 45.531 mas/yr
		Dec: +02 42 2.03 (2.70056d)	Proper Motion Dec: -40.59300003973476 mas/yr
		Equinox: J2000	Parallax: 0.0052899"
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Observation

Proposal 5924, Observation 1: HAT-P-11_NIRISS_SOSS - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Comments: Group 3 will saturate in about 300 pixels of the extracted spectra. We will use the non-saturated group 2 for these pixels. As experience has shown 3 groups provides better data quality, we have elected to keep 3 groups such that the non-saturated regions (0.8-1 & 1.4-1.8) get high quality data.

Diagnostics

(HAT-P-11_NIRISS_SOSS - Transit (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

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HAT-P-11	RA: 19 50 50.2473 (297.7093637d)	Proper Motion RA: 126.09500000000001 mas/yr	
		Dec: +48 04 51.10 (48.08086d)	Proper Motion Dec: 232.726 mas/yr	
		Equinox: J2000	Parallax: 0.0264274"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	194319

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP96	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	4.448	
2	NISRAPID	3	2326	1	2326	20646.692	194319
3	NISRAPID	3	10	1	10	88.765	

Proposal 5924 - Observation 1 - JWST's Exoplanet Grand Tour Spectroscopic Survey

Special Requirements

Phase 0.9712921230717361 to 0.979816744354507 with period 4.88780267 Days and zero-phase 2454957.813556 HJD
Aperture PA Range 119 to 121 Degrees (V3 118.43873283 to 120.43873283)
Aperture PA Range 164 to 171 Degrees (V3 163.43873283 to 170.43873283)
Aperture PA Range 190 to 192 Degrees (V3 189.43873283 to 191.43873283)
Aperture PA Range 221 to 227 Degrees (V3 220.43873283 to 226.43873283)
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 2: WASP-69_NIRISS_SOSS - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(WASP-69_NIRISS_SOSS - Transit (Obs 2)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.

(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	WASP-69	RA: 21 00 6.1968 (315.0258200d)	Proper Motion RA: 33.778 mas/yr	
		Dec: -05 05 40.03 (-5.09445d)	Proper Motion Dec: -93.58100010103954 mas/yr	
		Equinox: J2000	Parallax: 0.0198858"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	194200

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP96	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	4.448	
2	NISRAPID	3	2064	1	2064	18321.055	194200
3	NISRAPID	3	10	1	10	88.765	

Special Requirements

Phase 0.9672094092488417 to 0.9779811669066996 with period 3.868139 Days and zero-phase 2457176.17789 HJD
Aperture PA Range 70 to 90 Degrees (V3 69.43873283 to 89.43873283)
Aperture PA Range 232 to 260 Degrees (V3 231.43873283 to 259.43873283)
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 3: WASP-80_NIRISS_SOSS - Transit	Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(WASP-80_NIRISS_SOSS - Transit (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.

(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	WASP-80	RA: 20 12 40.1693 (303.1673721d)	Proper Motion RA: -132.913 mas/yr	
		Dec: -02 08 39.19 (-2.14422d)	Proper Motion Dec: -50.683000017670565 mas/yr	
		Equinox: J2000	Parallax: 0.0201141"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	11	1	1	0.566	194331

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	11.008	
2	NISRAPID	3	857	1	857	18850.983	194331
3	NISRAPID	3	10	1	10	219.965	

Special Requirements

Phase 0.9576496337698935 to 0.9712313391614467 with period 3.06785251 Days and zero-phase 2456726.717483 HJD
Aperture PA Range 70 to 75 Degrees (V3 69.43873283 to 74.43873283)
Aperture PA Range 244 to 248 Degrees (V3 243.43873283 to 247.43873283)
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 4: WASP-94Ab_NIRISS_SOSS - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(WASP-94Ab_NIRISS_SOSS - Transit (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.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	WASP-94A	RA: 20 55 7.9444 (313.7831017d)	Proper Motion RA: 26.5 mas/yr	
		Dec: -34 08 8.01 (-34.13556d)	Proper Motion Dec: -44.971000056648336 mas/yr	
		Equinox: J2000	Parallax: 0.004749799999999999"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	7	1	1	0.384	194321

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	11.008	
2	NISRAPID	3	1458	1	1458	32070.868	194321
3	NISRAPID	3	10	1	10	219.965	

Special Requirements

Phase 0.9477435051679758 to 0.9582914940323036 with period 3.9502001 Days and zero-phase 2458300.64763 HJD
Aperture PA Range 71 to 80 Degrees (V3 70.43873283 to 79.43873283)
Aperture PA Range 245 to 249 Degrees (V3 244.43873283 to 248.43873283)
Aperture PA Range 256 to 262 Degrees (V3 255.43873283 to 261.43873283)
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 5: NGTS-2_NIRISS_SOSS - Transit	Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(NGTS-2_NIRISS_SOSS - Transit (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

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(5)	NGTS-2	RA: 14 20 29.4891 (215.1228713d)	Proper Motion RA: -21.786 mas/yr	
		Dec: -31 12 7.44 (-31.20207d)	Proper Motion Dec: -0.9060000365934684 mas/yr	
		Equinox: J2000	Parallax: 0.0027764"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	15	1	1	0.748	194329

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	11.008	
2	NISRAPID	6	858	1	858	33014.536	194329
3	NISRAPID	6	10	1	10	384.785	

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Special Requirements

Phase 0.9530295101380012 to 0.9622659381786677 with period 4.5111234 Days and zero-phase 2459351.553003 HJD
Aperture PA Range 90 to 92 Degrees (V3 89.43873283 to 91.43873283)
Aperture PA Range 286 to 292 Degrees (V3 285.43873283 to 291.43873283)
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 6: HAT-P-30_NIRISS_SOSS - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(HAT-P-30_NIRISS_SOSS - Transit (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.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(6)	HAT-P-30	RA: 08 15 47.9802 (123.9499175d)	Proper Motion RA: -17.231 mas/yr	
		Dec: +05 50 12.35 (5.83676d)	Proper Motion Dec: 23.875 mas/yr	
		Equinox: J2000	Parallax: 0.0048037"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	15	1	1	0.748	194326

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	11.008	
2	NISRAPID	4	709	1	709	19490.75	194326
3	NISRAPID	4	10	1	10	274.905	

Special Requirements

Phase 0.9524560665532813 to 0.9672808912478613 with period 2.8106007 Days and zero-phase 2457775.212778 HJD
Aperture PA Range 80 to 95 Degrees (V3 79.43873283 to 94.43873283)
Aperture PA Range 300 to 305 Degrees (V3 299.43873283 to 304.43873283)
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 7: KELT-7_NIRISS_SOSS - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Comments: Using ephemeris of Ivshina & Winn 2022

Diagnostics

(KELT-7_NIRISS_SOSS - Transit (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.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(7)	KELT-7	RA: 05 13 10.9289 (78.2955371d)	Proper Motion RA: 10.477 mas/yr	
		Dec: +33 19 5.40 (33.31817d)	Proper Motion Dec: -49.619999936112436 mas/yr	
		Equinox: J2000	Parallax: 0.0073792"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	194323

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP96	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	4.448	
2	NISRAPID	3	3045	1	3045	27028.882	194323
3	NISRAPID	3	10	1	10	88.765	

Special Requirements

Phase 0.9353996992529342 to 0.9506356192404497 with period 2.7347656 Days and zero-phase 2460257.740089 HJD
Aperture PA Range 82 to 85 Degrees (V3 81.43873283 to 84.43873283)
Aperture PA Range 90 to 91 Degrees (V3 89.43873283 to 90.43873283)
Aperture PA Range 249 to 252 Degrees (V3 248.43873283 to 251.43873283)
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 8: HAT-P-1_NIRSpec_G395H - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Comments: TA saturates 1 pixel.

Diagnostics

(HAT-P-1_NIRSpec_G395H - Transit (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.

(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(8)	HAT-P-1	RA: 22 57 46.8442 (344.4451842d)	Proper Motion RA: 32.422 mas/yr	
		Dec: +38 40 30.36 (38.67510d)	Proper Motion Dec: -41.94900002403301 mas/yr	
		Equinox: J2000	Parallax: 0.0062438"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	194342

Template

Subarray

SUB2048

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	G395H/F290LP	NRSRAPID	19	1336	1	1	1336	24128.801	194342

Special Requirements

Phase 0.9639821073382018 to 0.9733133176942746 with period 4.46530031 Days and zero-phase 2454363.94778 HJD
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 9: WASP-63_NIRSpec_G395H - Transit　　　　Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Comments: TA saturates 1 pixel

Diagnostics

(WASP-63_NIRSpec_G395H - Transit (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.

(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(9)	WASP-63	RA: 06 17 20.7485 (94.3364521d)	Proper Motion RA: -17.469 mas/yr	
		Dec: -38 19 23.75 (-38.32326d)	Proper Motion Dec: -27.29199998157128 mas/yr	
		Equinox: J2000	Parallax: 0.0034609000000000003"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	194345

Template

Subarray

SUB2048

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	G395H/F290LP	NRSRAPID	33	1351	1	1	1351	41460.136	194345

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Special Requirements

Phase 0.9404615487877764 to 0.9499786538102066 with period 4.37808205 Days and zero-phase 2458574.77102 HJD
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 10: HATS-72 NIRSPec_Prism - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Comments: TA will saturate 1 pixel.

Diagnostics

(HATS-72 NIRSPec_Prism - Transit (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.

(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(10)	HATS-72	RA: 22 36 6.3190 (339.0263292d)	Proper Motion RA: -108.585 mas/yr	
		Dec: -16 59 59.79 (-16.99994d)	Proper Motion Dec: -84.43700000952958 mas/yr	
		Equinox: J2000	Parallax: 0.007888"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	178988

Template

Subarray

SUB512

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	PRISM/CLEAR	NRSRAPID	3	23585	1	1	23585	21818.955	178988

Special Requirements

Phase 0.979986918124536 to 0.9856729106519228 with period 7.3279496 Days and zero-phase 2458124.28757 HJD
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 11: WASP-6_NIRSpec_Prism - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Comments: TA will saturate 1 pixel.

Diagnostics

(WASP-6_NIRSpec_Prism - Transit (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.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(11)	WASP-6	RA: 23 12 37.7368 (348.1572367d)	Proper Motion RA: -23.264 mas/yr	
		Dec: -22 40 26.27 (-22.67396d)	Proper Motion Dec: -37.14300009960425 mas/yr	
		Equinox: J2000	Parallax: 0.0050073"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	193858

Template

Subarray

SUB512

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	PRISM/CLEAR	NRSRAPID	4	19400	1	1	19400	22334.832	193858

Special Requirements

Phase 0.9553742685494054 to 0.9677713357008471 with period 3.36100237 Days and zero-phase 2456132.410973 HJD
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 16: WASP-6_NIRSpec_Prism - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Comments: TA will saturate 1 pixel.

Diagnostics

(WASP-6_NIRSpec_Prism - Transit (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.

(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(11)	WASP-6	RA: 23 12 37.7368 (348.1572367d)	Proper Motion RA: -23.264 mas/yr	
		Dec: -22 40 26.27 (-22.67396d)	Proper Motion Dec: -37.14300009960425 mas/yr	
		Equinox: J2000	Parallax: 0.0050073"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	193858

Template

Subarray

SUB512

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	PRISM/CLEAR	NRSRAPID	4	19400	1	1	19400	22334.832	193858

Special Requirements

Phase 0.9553742685494054 to 0.9677713357008471 with period 3.36100237 Days and zero-phase 2456132.410973 HJD
Time Series Observation
No Parallel Attachments

Observation	**Proposal 5924, Observation 12: WASP-19_NIRSpec_Prism - Transit** Thu Mar 06 00:00:15 GMT 2025 **Diagnostic Status: Warning** Observing Template: NIRSpec Bright Object Time Series *Comments: TA will saturate 1 pixel*

Diagnostics

(WASP-19_NIRSpec_Prism - 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.

(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(12)	WASP-19	RA: 09 53 40.0766 (148.4169858d) Dec: -45 39 33.06 (-45.65918d) Equinox: J2000	Proper Motion RA: -35.457 mas/yr Proper Motion Dec: 17.378 mas/yr Parallax: 0.0037516" 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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	193859

Template

Subarray

SUB512

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	PRISM/CLEAR	NRSRAPID	4	13330	1	1	13330	15346.562	193859

Special Requirements

Between Dates 11-FEB-2025 and 09-APR-2025
Phase 0.8609980813680316 to 0.9138183237680317 with period 0.788839 Days and zero-phase 2458556.24349 HJD
Time Series Observation
No Parallel Attachments

Observation

Proposal 5924, Observation 13: WASP-12_NIRSpec_Prism - Transit   Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Comments: TA will saturate 1 pixel

Diagnostics

(WASP-12_NIRSpec_Prism - Transit (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.

(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(13)	WASP-12	RA: 06 30 32.7966 (97.6366525d)	Proper Motion RA: -1.519 mas/yr	
		Dec: +29 40 20.26 (29.67229d)	Proper Motion Dec: -6.761000054211763 mas/yr	
		Equinox: J2000	Parallax: 0.0024213"	
			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.
Category=Star
Description=[Exoplanet Systems]

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	193864

Template

Subarray

SUB512

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	PRISM/CLEAR	NRSRAPID	3	26100	1	1	26100	24145.632	193864

Special Requirements

Phase 0.8526833057484688 to 0.8908598708349311 with period 1.09141918 Days and zero-phase 2457036.706177 HJD
Aperture PA Range 56.85295105 to 78.85295105 Degrees (V3 278.0 to 300.0)
Aperture PA Range 236.85295105 to 258.85295105 Degrees (V3 98.0 to 120.0)
Time Series Observation
No Parallel Attachments

Observation	**Proposal 5924, Observation 14: WASP-76_NIRISS_SOSS - Transit** Thu Mar 06 00:00:15 GMT 2025 **Diagnostic Status: Warning** Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(WASP-76_NIRISS_SOSS - Transit (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.
(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(14)	WASP-76	RA: 01 46 31.8576 (26.6327400d)	Proper Motion RA: 45.531 mas/yr	
		Dec: +02 42 2.03 (2.70056d)	Proper Motion Dec: -40.59300003973476 mas/yr	
		Equinox: J2000	Parallax: 0.0052899"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	SOSSFAINT	F480M	NISRAPID	9	1	1	0.475	205486

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP96	true

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	1	1	1	1	4.448	
2	NISRAPID	4	2449	1	2449	27160.586	205486
3	NISRAPID	4	10	1	10	110.905	

Special Requirements

Phase 0.9016360264241594 to 0.9246577342370639 with period 1.80988043 Days and zero-phase 2459305.914867 HJD
Aperture PA Range 50 to 80 Degrees (V3 49.43873283 to 79.43873283)
Aperture PA Range 245 to 265 Degrees (V3 244.43873283 to 264.43873283)
Time Series Observation
No Parallel Attachments

Sequence Observations 14, 15, Non-interruptible

Observation	**Proposal 5924, Observation 15: WASP-76A & B NIRCam Imaging**　　　　　　　　　Thu Mar 06 00:00:15 GMT 2025

Observation

Proposal 5924, Observation 15: WASP-76A & B NIRCam Imaging　　　　Thu Mar 06 00:00:15 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRCam Imaging

Comments: NIRCam imaging directly after the TSO NIRISS/SOSS to measure the position and brightness of the close binary companion. Companion is 2.5 magnitudes fainter and 0.4" from WASP-76A. SW and LW narrowband images will not saturate both stars, and will be used to measure the dilution of the transit depth from the B star.

Diagnostics

(WASP-76A & B NIRCam Imaging (Obs 15)) Warning (Form): Pointing performance insufficient

(WASP-76A & B NIRCam Imaging (Obs 15)) Warning (Form): Pointing performance insufficient

(WASP-76A & B NIRCam Imaging (Obs 15)) Warning (Form): Pointing performance insufficient

(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(14)	WASP-76	RA: 01 46 31.8576 (26.6327400d)	Proper Motion RA: 45.531 mas/yr	
		Dec: +02 42 2.03 (2.70056d)	Proper Motion Dec: -40.59300003973476 mas/yr	
		Equinox: J2000	Parallax: 0.0052899"	
			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.
Category=Star
Description=[Exoplanet Systems]
Extended=NO

Template

Module	Subarray
B	SUB64P

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions
1	SUBARRAY_DITHER	2	STANDARD		1

Spectral Elements

#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F164N+F150W2	F323N+F322W2	RAPID	3	2	4	2	0.813	
2	F187N	F405N+F444W	RAPID	3	2	4	2	0.813	
3	F212N	F466N+F444W	RAPID	3	2	4	2	0.813	

Special Requirements

Sequence Observations 14, 15, Non-interruptible