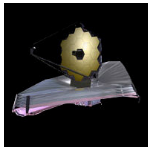

4098 - Exploring the existence and diversity of volatile-rich water worlds

Cycle: 2, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
L98-59d				
	1	SOSS	NIRISS Single-Object Slitless Spectroscopy	(1) L98-59
	2	G395H	NIRSpec Bright Object Time Series	(11) L98-59-updated
TOI-1685b				
	3	SOSS	NIRISS Single-Object Slitless Spectroscopy	(3) TOI-1685
	4	SOSS	NIRISS Single-Object Slitless Spectroscopy	(3) TOI-1685
GJ 9827d				
	7	SOSS	NIRISS Single-Object Slitless Spectroscopy	(5) GJ9827
	8	SOSS	NIRISS Single-Object Slitless Spectroscopy	(5) GJ9827
	9	G395H	NIRSpec Bright Object Time Series	(5) GJ9827
	91	G395H	NIRSpec Bright Object Time Series	(5) GJ9827
	10	G395H	NIRSpec Bright Object Time Series	(5) GJ9827
GJ 3090b				
	11	SOSS	NIRISS Single-Object Slitless Spectroscopy	(7) GJ3090
	12	SOSS	NIRISS Single-Object Slitless Spectroscopy	(7) GJ3090
	111	SOSS	NIRISS Single-Object Slitless Spectroscopy	(7) GJ3090
	13	G395H	NIRSpec Bright Object Time Series	(7) GJ3090
	14	G395H	NIRSpec Bright Object Time Series	(7) GJ3090
TOI-270				
	15	SOSS	NIRISS Single-Object Slitless Spectroscopy	(9) TOI-270
	16	G395H	NIRSpec Bright Object Time Series	(9) TOI-270
	17	G395H	NIRSpec Bright Object Time Series	(9) TOI-270

ABSTRACT

We propose to use JWST to conduct a targeted search for a long-theorized class of planet known as "water worlds". Due to its large aperture, broad infrared wavelength coverage, and ultra-stable space-based platform, JWST provides the first -- and, for the foreseeable future, only -- opportunity to unambiguously identify water worlds and characterize their atmospheric compositions. We will use NIRISS SOSS and NIRSpec G395H to measure atmospheric transmission spectra for a sample of the five most promising water-world candidates identified by their bulk densities, transmission spectroscopy metrics, and the expected depths of molecular spectral features. By surveying multiple targets, our program will provide vital

constraints on the existence of water worlds and will allow us to start characterizing the chemical diversity of their atmospheres. The existence of water worlds has important implications for theories of planet formation, and with compositions dominated by volatiles other than H/He, they represent a new regime of atmospheric chemistry that has until now remained uncharted by observations.

OBSERVING DESCRIPTION

All proposed observations are spectroscopic transit observations of the five most favorable water-world candidates transiting M and K dwarfs.

NIRISS/SOSS will be used to observe 0.8-2.8um, while NIRSPEC G395H will be used to observe 2.9-5μm. Together these observations will build a near-complete transmission spectrum between 0.8 and 5μm in the most efficient way possible for these bright target stars.

As specified by the phase constraints, all observations have to be timed to begin before the transit and end after the transit with adequate baseline on both sides.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	L98-59	RA: 08 18 7.8951 (124.5328963d) Dec: -68 18 46.87 (-68.31302d) Equinox: J2000	Proper Motion RA: 94.79378412168865 mas/yr Proper Motion Dec: -340.08431073762046 mas/yr Parallax: 0.09426635965165642" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 5271055243163629056
RAdeg 124.53289609935
DEdeg -68.31451297878
pmRA 94.794
pmDE -340.084
phot_g_mean_mag 10.605513
teff_gspphot 3178.8445

2MASS 08180763-6818468
RAJ2000 124.531807
DEJ2000 -68.313019
Jmag 7.933
Hmag 7.359
Kmag 7.101
Category=Star
Description=[M dwarfs]
Extended=NO

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	ACQ-STAR-FOR-L98-59	RA: 08 18 18.2248 (124.5759367d) Dec: -68 18 42.85 (-68.31190d) Equinox: J2000	Proper Motion RA: -14.046 mas/yr Proper Motion Dec: 13.134 mas/yr Parallax: 0.0020161" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 5271055208803899520
RAdeg 124.57593675211
DEdeg -68.31190324582
Plx 2.0161
pmRA -14.046
pmDE 13.134
Gmag 16.147158
Teff 4140.3

2MASS 08181825-6818430
RAJ2000 124.576056
DEJ2000 -68.311951
Jmag 13.844
Hmag 13.128
Kmag 12.998
Category=Star
Description=[K stars]
Extended=NO

(3)	TOI-1685	RA: 04 34 22.5504 (68.5939600d) Dec: +43 02 13.30 (43.03703d) Equinox: J2000	Proper Motion RA: 37.762 mas/yr Proper Motion Dec: -87.062 mas/yr Parallax: 0.0265893" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 252366608956186240
RAdeg 68.59396005206
DEdeg 43.03702752863
Plx 26.5893
pmRA 37.762
pmDE -87.062
Gmag 12.284570
Teff

2MASS 04342248+4302148
RAJ2000 68.593708
DEJ2000 +43.037457
Jmag 9.616
Hmag 9.005
Kmag 8.758
Category=Star
Description=[M dwarfs]
Extended=NO

(5)	GJ9827	RA: 23 27 5.2388 (351.7718283d) Dec: -01 17 7.13 (-1.28531d) Equinox: J2000	Proper Motion RA: 375.977 mas/yr Proper Motion Dec: 215.870 mas/yr Parallax: 0.0337247" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 2643842302456085888
RAdeg 351.77182847413
DEdeg -1.28531353557
Plx 33.7247
pmRA 375.977
pmDE 215.870
Gmag 9.840704
Teff 4182.0

2MASS 23270480-0117108
RAJ2000 351.770000
DEJ2000 -1.286352
Jmag 7.984
Hmag 7.379
Kmag 7.193
Category=Star
Description=[M dwarfs]
Extended=NO

(6)	ACQ-STAR-FOR-GJ9827	RA: 23 27 7.4936 (351.7812233d) Dec: -01 17 26.84 (-1.29079d) Equinox: J2000	Proper Motion RA: -2.443 mas/yr Proper Motion Dec: 21.778 mas/yr Parallax: 0.0023410" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 2643842229441148928
RAdeg 351.78122318159
DEdeg -1.29078879761
Plx 2.3410
pmRA -2.443
pmDE 21.778
Gmag 18.097603
Teff 3376.5

2MASS 23270749-0117272
RAJ2000 351.781235
DEJ2000 -1.290913
Jmag 15.587
Hmag 14.939
Kmag 14.864
Category=Star
Description=[M stars]
Extended=NO

(7)	GJ3090	RA: 01 21 45.2173 (20.4384054d) Dec: -46 42 53.04 (-46.71473d) Equinox: J2000	Proper Motion RA: -111.08929387948497 mas/yr Proper Motion Dec: -79.95397168145395 mas/yr Parallax: 0.04453483319805842" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 4933912198895807104
RAdeg 20.43840559562
DEdeg -46.71473451693
pmRA -111.089
pmDE -79.954

2MASS 01214538-4642518
Jmag 8.168
Hmag 7.536
Kmag 7.294
Category=Star
Description=[M dwarfs]
Extended=NO

(8)	ACQ-STAR-FOR-GJ3090	RA: 01 21 46.9979 (20.4458246d) Dec: -46 42 32.28 (-46.70897d) Equinox: J2000	Proper Motion RA: -2.3239006397903874 mas/yr Proper Motion Dec: 2.1596599188434134 mas/yr Parallax: 0.0026435722393721126" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 4933912198895291648
RAdeg 20.44582454459
DEdeg -46.70896645827
pmRA -2.324
pmDE 2.160

2MASS 01214699-4642323
Jmag 12.969
Hmag 12.394
Kmag 12.296
Category=Unidentified
Description=[Infrared sources, Visible sources]
Extended=NO

(9)	TOI-270	RA: 04 33 39.8638 (68.4160992d) Dec: -51 57 26.75 (-51.95743d) Equinox: J2000	Proper Motion RA: 83.082 mas/yr Proper Motion Dec: -269.803 mas/yr Parallax: 0.0444899" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 4781196115469953024
RAdeg 68.41609923470
DEdeg -51.95743117623
Plx 44.4899
pmRA 83.082
pmDE -269.803
Gmag 11.621160
Teff 3290.2

2MASS 04333970-5157222
RAJ2000 68.415442
DEJ2000 -51.956169
Jmag 9.099
Hmag 8.531
Kmag 8.251
Category=Star
Description=[M dwarfs]
Extended=NO

(10)	ACQ-STAR-FOR-TOI-270	RA: 04 33 41.0967 (68.4212363d) Dec: -51 57 55.50 (-51.96542d) Equinox: J2000	Proper Motion RA: 9.154 mas/yr Proper Motion Dec: 5.052 mas/yr Parallax: 0.0003994" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 4781184360144002304
RAdeg 68.42123606675
DEdeg -51.96541531697
Plx 0.3994
pmRA 9.154
pmDE 5.052
Gmag 18.385365
Teff 3977.9

2MASS 04334110-5157556
RAJ2000 68.421274
DEJ2000 -51.965462
Jmag 16.396
Hmag 15.665
Kmag 15.597
Category=Star
Description=[G stars]
Extended=NO

(11)	L98-59-updated	RA: 08 18 7.8951 (124.5328963d) Dec: -68 18 52.25 (-68.31451d) Equinox: J2000	Proper Motion RA: 94.79378412168865 mas/yr Proper Motion Dec: -340.08431073762046 mas/yr Parallax: 0.09426635965165642" Epoch of Position: 2016.0

Comments: DR3Name Gaia DR3 5271055243163629056
RAdeg 124.53289609935
DEdeg -68.31451297878
pmRA 94.794
pmDE -340.084
phot_g_mean_mag 10.605513
teff_gspphot 3178.8445

2MASS 08180763-6818468
RAJ2000 124.531807
DEJ2000 -68.313019
Jmag 7.933
Hmag 7.359
Kmag 7.101
Category=Star
Description=[M dwarfs]
Extended=NO

Observation

Proposal 4098, Observation 1: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

(Exposure) 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)	L98-59	RA: 08 18 7.8951 (124.5328963d) Dec: -68 18 46.87 (-68.31302d) Equinox: J2000	Proper Motion RA: 94.79378412168865 mas/yr Proper Motion Dec: -340.08431073762046 mas/yr Parallax: 0.09426635965165642" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 5271055243163629056
RAdeg 124.53289609935
DEdeg -68.31451297878
pmRA 94.794
pmDE -340.084
phot_g_mean_mag 10.605513
teff_gspphot 3178.8445

2MASS 08180763-6818468
RAJ2000 124.531807
DEJ2000 -68.313019
Jmag 7.933
Hmag 7.359
Kmag 7.101
Category=Star
Description=[M dwarfs]
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	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP96	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	4	1101	1	1101	12210.618	55076

Special Requirements	
	Phase 0.985956 to 0.991558 with period 7.45085656 Days and zero-phase 2458362.7375 HJD Aperture PA Range 322 to 335 Degrees (V3 321.43873283 to 334.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 2: G395H

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (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
(11)	L98-59-updated	RA: 08 18 7.8951 (124.5328963d) Dec: -68 18 52.25 (-68.31451d) Equinox: J2000	Proper Motion RA: 94.79378412168865 mas/yr Proper Motion Dec: -340.08431073762046 mas/yr Parallax: 0.09426635965165642" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 5271055243163629056
RAdeg 124.53289609935
DEdeg -68.31451297878
pmRA 94.794
pmDE -340.084
phot_g_mean_mag 10.605513
teff_gspphot 3178.8445

2MASS 08180763-6818468
RAJ2000 124.531807
DEJ2000 -68.313019
Jmag 7.933
Hmag 7.359
Kmag 7.101
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	2 ACQ-STAR-FOR-L98-59	WATA	SUB32	F140X	NRSRAPID	3	1	1	0.08	109288.59

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	6	2121	1	1	2121	13435.432	25225

Special Requirements	
	Phase 0.986774457 to 0.992366653 with period 7.4507290 Days and zero-phase 2458362.73980 HJD Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 3: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

(Exposure) 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)	TOI-1685	RA: 04 34 22.5504 (68.5939600d) Dec: +43 02 13.30 (43.03703d) Equinox: J2000	Proper Motion RA: 37.762 mas/yr Proper Motion Dec: -87.062 mas/yr Parallax: 0.0265893" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 252366608956186240
RAdeg 68.59396005206
DEdeg 43.03702752863
Plx 26.5893
pmRA 37.762
pmDE -87.062
Gmag 12.284570
Teff

2MASS 04342248+4302148
RAJ2000 68.593708
DEJ2000 +43.037457
Jmag 9.616
Hmag 9.005
Kmag 8.758
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	3 TOI-1685	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	5	320	1	320	10555.034	55076

Special Requirements	
	Phase 0.871841 to 0.944488 with period 0.6691403 Days and zero-phase 2458816.22615 HJD Aperture PA Range 96 to 97 Degrees (V3 95.43873283 to 96.43873283) Aperture PA Range 102 to 107 Degrees (V3 101.43873283 to 106.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 4: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

(Exposure) 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
(3)	TOI-1685	RA: 04 34 22.5504 (68.5939600d) Dec: +43 02 13.30 (43.03703d) Equinox: J2000	Proper Motion RA: 37.762 mas/yr Proper Motion Dec: -87.062 mas/yr Parallax: 0.0265893" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 252366608956186240
RAdeg 68.59396005206
DEdeg 43.03702752863
Plx 26.5893
pmRA 37.762
pmDE -87.062
Gmag 12.284570
Teff

2MASS 04342248+4302148
RAJ2000 68.593708
DEJ2000 +43.037457
Jmag 9.616
Hmag 9.005
Kmag 8.758
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	3 TOI-1685	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	5	320	1	320	10555.034	55076

Special Requirements	
	Phase 0.871841 to 0.944488 with period 0.6691403 Days and zero-phase 2458816.22615 HJD Aperture PA Range 96 to 97 Degrees (V3 95.43873283 to 96.43873283) Aperture PA Range 102 to 107 Degrees (V3 101.43873283 to 106.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 7: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

(Exposure) 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
(5)	GJ9827	RA: 23 27 5.2388 (351.7718283d) Dec: -01 17 7.13 (-1.28531d) Equinox: J2000	Proper Motion RA: 375.977 mas/yr Proper Motion Dec: 215.870 mas/yr Parallax: 0.0337247" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 2643842302456085888
RAdeg 351.77182847413
DEdeg -1.28531353557
Plx 33.7247
pmRA 375.977
pmDE 215.870
Gmag 9.840704
Teff 4182.0

2MASS 23270480-0117108
RAJ2000 351.770000
DEJ2000 -1.286352
Jmag 7.984
Hmag 7.379
Kmag 7.193
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	5 GJ9827	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	2	756	1	756	12475.875	55076

Special Requirements	
	Phase 0.9842949 to 0.9921329 with period 6.20186 Days and zero-phase 2459185.987 HJD Aperture PA Range 0 to 230 Degrees (V3 359.43873283 to 229.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 8: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

(Exposure) 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
(5)	GJ9827	RA: 23 27 5.2388 (351.7718283d) Dec: -01 17 7.13 (-1.28531d) Equinox: J2000	Proper Motion RA: 375.977 mas/yr Proper Motion Dec: 215.870 mas/yr Parallax: 0.0337247" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 2643842302456085888
RAdeg 351.77182847413
DEdeg -1.28531353557
Plx 33.7247
pmRA 375.977
pmDE 215.870
Gmag 9.840704
Teff 4182.0

2MASS 23270480-0117108
RAJ2000 351.770000
DEJ2000 -1.286352
Jmag 7.984
Hmag 7.379
Kmag 7.193
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	5 GJ9827	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	2	756	1	756	12475.875	55076

Special Requirements	
	Phase 0.9842949 to 0.9921329 with period 6.20186 Days and zero-phase 2459185.987 HJD Aperture PA Range 0 to 230 Degrees (V3 359.43873283 to 229.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 9: G395H

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (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
(5)	GJ9827	RA: 23 27 5.2388 (351.7718283d) Dec: -01 17 7.13 (-1.28531d) Equinox: J2000	Proper Motion RA: 375.977 mas/yr Proper Motion Dec: 215.870 mas/yr Parallax: 0.0337247" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 2643842302456085888
RAdeg 351.77182847413
DEdeg -1.28531353557
Plx 33.7247
pmRA 375.977
pmDE 215.870
Gmag 9.840704
Teff 4182.0

2MASS 23270480-0117108
RAJ2000 351.770000
DEJ2000 -1.286352
Jmag 7.984
Hmag 7.379
Kmag 7.193
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	6 ACQ-STAR-FOR-GJ9827	WATA	SUB32	F140X	NRSRAPID	3	1	1	0.08	109288.59

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	4	2753	1	1	2753	12472.411	25225

Special Requirements	
	Phase 0.9842949 to 0.9921329 with period 6.20186 Days and zero-phase 2459185.987 HJD Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 91: G395H

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (Obs 91)) 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 91:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(5)	GJ9827	RA: 23 27 5.2388 (351.7718283d) Dec: -01 17 7.13 (-1.28531d) Equinox: J2000	Proper Motion RA: 375.977 mas/yr Proper Motion Dec: 215.870 mas/yr Parallax: 0.0337247" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 2643842302456085888
RAdeg 351.77182847413
DEdeg -1.28531353557
Plx 33.7247
pmRA 375.977
pmDE 215.870
Gmag 9.840704
Teff 4182.0

2MASS 23270480-0117108
RAJ2000 351.770000
DEJ2000 -1.286352
Jmag 7.984
Hmag 7.379
Kmag 7.193
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	6 ACQ-STAR-FOR-GJ9827	WATA	SUB32	F140X	NRSRAPID	3	1	1	0.08	109288.59

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	4	2753	1	1	2753	12472.411	25225

Special Requirements	
	Phase 0.9842949 to 0.9921329 with period 6.20186 Days and zero-phase 2459185.987 HJD Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 10: G395H

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (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
(5)	GJ9827	RA: 23 27 5.2388 (351.7718283d) Dec: -01 17 7.13 (-1.28531d) Equinox: J2000	Proper Motion RA: 375.977 mas/yr Proper Motion Dec: 215.870 mas/yr Parallax: 0.0337247" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 2643842302456085888
RAdeg 351.77182847413
DEdeg -1.28531353557
Plx 33.7247
pmRA 375.977
pmDE 215.870
Gmag 9.840704
Teff 4182.0

2MASS 23270480-0117108
RAJ2000 351.770000
DEJ2000 -1.286352
Jmag 7.984
Hmag 7.379
Kmag 7.193
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	6 ACQ-STAR-FOR-GJ9827	WATA	SUB32	F140X	NRSRAPID	3	1	1	0.08	109288.59

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	4	2753	1	1	2753	12472.411	25225

Special Requirements	
	Phase 0.9842949 to 0.9921329 with period 6.20186 Days and zero-phase 2459185.987 HJD Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 11: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

(Exposure) 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
(7)	GJ3090	RA: 01 21 45.2173 (20.4384054d) Dec: -46 42 53.04 (-46.71473d) Equinox: J2000	Proper Motion RA: -111.08929387948497 mas/yr Proper Motion Dec: -79.95397168145395 mas/yr Parallax: 0.04453483319805842" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4933912198895807104
RAdeg 20.43840559562
DEdeg -46.71473451693
pmRA -111.089
pmDE -79.954

2MASS 01214538-4642518
Jmag 8.168
Hmag 7.536
Kmag 7.294
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	7 GJ3090	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	2	779	1	779	12855.432	55076

Special Requirements	
	Phase 0.962722 to 0.979759 with period 2.8531054 Days and zero-phase 2458370.418490 HJD Aperture PA Range 0 to 252 Degrees (V3 359.43873283 to 251.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 12: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

(Exposure) 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
(7)	GJ3090	RA: 01 21 45.2173 (20.4384054d) Dec: -46 42 53.04 (-46.71473d) Equinox: J2000	Proper Motion RA: -111.08929387948497 mas/yr Proper Motion Dec: -79.95397168145395 mas/yr Parallax: 0.04453483319805842" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4933912198895807104
RAdeg 20.43840559562
DEdeg -46.71473451693
pmRA -111.089
pmDE -79.954

2MASS 01214538-4642518
Jmag 8.168
Hmag 7.536
Kmag 7.294
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	7 GJ3090	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	2	779	1	779	12855.432	55076

Special Requirements	
	Phase 0.962722 to 0.979759 with period 2.8531054 Days and zero-phase 2458370.418490 HJD Aperture PA Range 0 to 252 Degrees (V3 359.43873283 to 251.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 111: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (Obs 111)) 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.

(Exposure) 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 111:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(7)	GJ3090	RA: 01 21 45.2173 (20.4384054d) Dec: -46 42 53.04 (-46.71473d) Equinox: J2000	Proper Motion RA: -111.08929387948497 mas/yr Proper Motion Dec: -79.95397168145395 mas/yr Parallax: 0.04453483319805842" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4933912198895807104
RAdeg 20.43840559562
DEdeg -46.71473451693
pmRA -111.089
pmDE -79.954

2MASS 01214538-4642518
Jmag 8.168
Hmag 7.536
Kmag 7.294
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	7 GJ3090	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	2	779	1	779	12855.432	55076

Special Requirements	
	Phase 0.962722 to 0.979759 with period 2.8531054 Days and zero-phase 2458370.418490 HJD Aperture PA Range 0.6 to 18 Degrees (V3 0.03873283 to 17.43873283) Aperture PA Range 31 to 40 Degrees (V3 30.43873283 to 39.43873283) Aperture PA Range 49 to 64 Degrees (V3 48.43873283 to 63.43873283) Aperture PA Range 200 to 271 Degrees (V3 199.43873283 to 270.43873283) Aperture PA Range 330 to 360 Degrees (V3 329.43873283 to 359.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 13: G395H

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (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
(7)	GJ3090	RA: 01 21 45.2173 (20.4384054d) Dec: -46 42 53.04 (-46.71473d) Equinox: J2000	Proper Motion RA: -111.08929387948497 mas/yr Proper Motion Dec: -79.95397168145395 mas/yr Parallax: 0.04453483319805842" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4933912198895807104
RAdeg 20.43840559562
DEdeg -46.71473451693
pmRA -111.089
pmDE -79.954

2MASS 01214538-4642518
Jmag 8.168
Hmag 7.536
Kmag 7.294
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	8 ACQ-STAR-FOR-GJ3090	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	109288.59

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	4	2845	1	1	2845	12889.216	25225

Special Requirements	
	Phase 0.962722 to 0.979759 with period 2.8531054 Days and zero-phase 2458370.418490 HJD Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 14: G395H

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (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
(7)	GJ3090	RA: 01 21 45.2173 (20.4384054d) Dec: -46 42 53.04 (-46.71473d) Equinox: J2000	Proper Motion RA: -111.08929387948497 mas/yr Proper Motion Dec: -79.95397168145395 mas/yr Parallax: 0.04453483319805842" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4933912198895807104
RAdeg 20.43840559562
DEdeg -46.71473451693
pmRA -111.089
pmDE -79.954

2MASS 01214538-4642518
Jmag 8.168
Hmag 7.536
Kmag 7.294
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	8 ACQ-STAR-FOR-GJ3090	WATA	SUB32	F110W	NRSRAPID	3	1	1	0.08	109288.59

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	4	2845	1	1	2845	12889.216	25225

Special Requirements	
	Phase 0.962722 to 0.979759 with period 2.8531054 Days and zero-phase 2458370.418490 HJD Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 15: SOSS

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRISS Single-Object Slitless Spectroscopy

Diagnostics

(SOSS (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.

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(9)	TOI-270	RA: 04 33 39.8638 (68.4160992d) Dec: -51 57 26.75 (-51.95743d) Equinox: J2000	Proper Motion RA: 83.082 mas/yr Proper Motion Dec: -269.803 mas/yr Parallax: 0.0444899" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4781196115469953024
RAdeg 68.41609923470
DEdeg -51.95743117623
Plx 44.4899
pmRA 83.082
pmDE -269.803
Gmag 11.621160
Teff 3290.2

2MASS 04333970-5157222
RAJ2000 68.415442
DEJ2000 -51.956169
Jmag 9.099
Hmag 8.531
Kmag 8.251
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	Acquisition Mode	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	9 TOI-270	SOSSFAINT	F480M	NISRAPID	3	1	1	0.202	55076

Template

Subarray	Include Short First Exposure and F277W Exposure?
SUBSTRIP256	false

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	NISRAPID	3	868	1	868	19092.945	55076

Special Requirements	
	Phase 0.987970 to 0.992242 with period 11.37957 Days and zero-phase 2458389.681860 HJD Aperture PA Range 50 to 64 Degrees (V3 49.43873283 to 63.43873283) Aperture PA Range 72 to 84 Degrees (V3 71.43873283 to 83.43873283) Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 16: G395H Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (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
(9)	TOI-270	RA: 04 33 39.8638 (68.4160992d) Dec: -51 57 26.75 (-51.95743d) Equinox: J2000	Proper Motion RA: 83.082 mas/yr Proper Motion Dec: -269.803 mas/yr Parallax: 0.0444899" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4781196115469953024
RAdeg 68.41609923470
DEdeg -51.95743117623
Plx 44.4899
pmRA 83.082
pmDE -269.803
Gmag 11.621160
Teff 3290.2

2MASS 04333970-5157222
RAJ2000 68.415442
DEJ2000 -51.956169
Jmag 9.099
Hmag 8.531
Kmag 8.251
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	10 ACQ-STAR-FOR-TOI-270	WATA	SUB32	F140X	NRSRAPID	3	1	1	0.08	109288.59

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	11	1763	1	1	1763	19118.818	25225

Special Requirements	
	Phase 0.987970 to 0.992242 with period 11.37957 Days and zero-phase 2458389.681860 HJD Time Series Observation No Parallel Attachments

Observation

Proposal 4098, Observation 17: G395H

Mon Oct 21 19:00:11 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec Bright Object Time Series

Diagnostics

(G395H (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.

(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(9)	TOI-270	RA: 04 33 39.8638 (68.4160992d) Dec: -51 57 26.75 (-51.95743d) Equinox: J2000	Proper Motion RA: 83.082 mas/yr Proper Motion Dec: -269.803 mas/yr Parallax: 0.0444899" Epoch of Position: 2016.0	

Comments: DR3Name Gaia DR3 4781196115469953024
RAdeg 68.41609923470
DEdeg -51.95743117623
Plx 44.4899
pmRA 83.082
pmDE -269.803
Gmag 11.621160
Teff 3290.2

2MASS 04333970-5157222
RAJ2000 68.415442
DEJ2000 -51.956169
Jmag 9.099
Hmag 8.531
Kmag 8.251
Category=Star
Description=[M dwarfs]
Extended=NO

Acquisition

#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	10 ACQ-STAR-FOR-TOI-270	WATA	SUB32	F140X	NRSRAPID	3	1	1	0.08	109288.59

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	11	1763	1	1	1763	19118.818	25225

Special Requirements	
	Phase 0.987970 to 0.992242 with period 11.37957 Days and zero-phase 2458389.681860 HJD Time Series Observation No Parallel Attachments