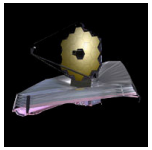

5094 - Composition of an Interstellar Object - Unique Insights into Protoplanetary Disk Midplane Chemistry

Cycle: 3, Proposal Category: GO

INVESTIGATORS

Name	*Institution*
Dr. Martin A. Cordiner (PI)	**Catholic University of America**
Dr. Michael S Kelley (CoI)	University of Maryland
Dr. Cristina A. Thomas (CoI)	Northern Arizona University
Dr. Stefanie N. Milam (CoI)	NASA Goddard Space Flight Center
Dr. Dennis Bodewits (CoI)	Auburn University
Dr. Davide Farnocchia (CoI)	Jet Propulsion Laboratory
Dr. Nathan X. Roth (CoI)	American University
Dr. Steven B. Charnley (CoI)	NASA Goddard Space Flight Center
Dr. Maria Nikolayevna Drozdovskaya (CoI) (ESA Member)	Physikalisch-Meteorologisches Observatorium Davos (PMOD)
Dr. Cyrielle Opitom (CoI) (ESA Member)	University of Edinburgh, Institute for Astronomy
Dr. Meg Schwamb (CoI) (ESA Member)	Queen's University Belfast

OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
NIRSpec Spectroscopy				
	1	Prism (epoch1)	NIRSpec IFU Spectroscopy	(2) 3I_ATLAS
	2	Prism (epoch1) nod off	NIRSpec IFU Spectroscopy	(2) 3I_ATLAS
	3	Prism (epoch3)	NIRSpec IFU Spectroscopy	(6) 3I_ATLAS_Epoch3
	4	Prism (epoch3) nod off	NIRSpec IFU Spectroscopy	(6) 3I_ATLAS_Epoch3
	13	Prism (epoch2)	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	14	Prism (epoch2) nod off	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
	5	G235H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	6	G235H nod off	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	7	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	71	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	72	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	73	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	74	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	8	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	85	G395H	NIRSpec IFU Spectroscopy	(4) BG7
	81	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	82	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	83	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
	86	G395H	NIRSpec IFU Spectroscopy	(5) BG73
	84	G395H	NIRSpec IFU Spectroscopy	(3) 3I_ATLAS_Epoch2
MIRI Spectroscopy				
	9	LRS	MIRI Low Resolution Spectroscopy	(3) 3I_ATLAS_Epoch2
	10	LRS nod off	MIRI Low Resolution Spectroscopy	(3) 3I_ATLAS_Epoch2
Imaging				
	11	NIRCam	NIRCam Imaging	(3) 3I_ATLAS_Epoch2
	21	NIRCam	NIRCam Imaging	(3) 3I_ATLAS_Epoch2
	12	MIRI Imaging	MIRI Imaging	(3) 3I_ATLAS_Epoch2

ABSTRACT

We propose spectroscopy and imaging with NIRSpec, NIRCam and MIRI to investigate the physical and chemical properties of a target-of-opportunity interstellar object (ISO), to help elucidate the nature and origin of this fundamentally new class of astronomical body. We will perform a deep search for outgassing using the NIRSpec prism over three epochs. If a coma is clearly visible, higher-resolution grating observations will be used to measure the production rates of multiple coma gases (including H2O, CO2, CH4, CH3OH, CO, HCN, H2CO and C2H6), to determine the ice content of the nucleus. MIRI-LRS spectroscopy will reveal the coma dust composition, while NIRCam and MIRI imaging will measure the nucleus size. In the absence of significant outgassing, our near-to-mid-IR observations have been designed to directly measure the ISO's surface composition and spectral shape, for comparison with Solar System asteroids. We will target an ISO similar to (or brighter than) 1I/'Oumuamua and 2I/Borisov, with V <~25 mag. Only JWST has the sensitivity to perform the required gas, dust and nucleus measurements in the event of a faint apparition. The

proposed observations will provide new insights into the diversity of protoplanetary disk midplane chemistry in our Galaxy, and in a sufficiently bright and gas-rich object (V<~19), will yield a comprehensive inventory of the volatiles available for pre-biotic chemistry in a planetary system other than our own.

OBSERVING DESCRIPTION

This non-disruptive target-of-opportunity program will be triggered for a single interstellar object (ISO) in JWST Cycle 3, 4 or 5, meeting the required figure-of-merit criteria Q/rH^1.5/Delta > 10^23 s^-1 au^-2.5 (where Q is the coma molecular production rate, rH is the heliocentric distance and Delta the geocentric distance), or visual magnitude criteria V < 25. We also require an ephemeris motion of < 270"/h to remain within the JWST tracking capabilities. NIRSpec prism spectroscopy will be performed on three epochs. NIRSpec G395H/F290LP grating spectroscopy, MIRI-LRS spectroscopy, NIRCam imaging and MIRI imaging will be performed on one epoch. The precise observation epochs will be determined based on the trajectory of the ISO-of-interest through the JWST field of regard, and are likely to be spread several weeks apart, with the first observation being performed as soon as the object is bright enough to reach our triggering threshold. The longer (1 hr) NIRSpec prism exposure, the NIRSpec grating exposure and the MIRI + NIRCam exposures will be performed when the object is close to its brightest (expected to be around perihelion). When planning the timing of our three observing epochs, we will also take into account the proximity of the object to the telescope, and the object's motion through the field of regard. Out-of-field nodding exposures will be required for our NIRSpec and MIRI observations, due to the diffuse, extended nature of cometary comae, to help remove the background zodiacal light. Our observational triggers have a 14-day lead time, and an up-to-date ephemeris will be provided within 1 week of the expected observations. Typical ephemeris errors for well-studied targets (such as an ISO) are <~1", which will be sufficient to place our target well within the NIRSpec IFU without need for target acquisition. Our MIRI-LRS observations, however, will likely require acquisition and peakup to center the target in the 0.5" slit.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	BG7	RA: 10 27 45.8100 (156.9408750d) Dec: +08 40 58.00 (8.68278d) Equinox: J2000	Epoch of Position: 2000	
Comments: Sky background position corresponding to where the comet was for visit 7 Category=Calibration Description=[Telescope/sky background] Extended=YES				
(5)	BG73	RA: 10 26 56.9600 (156.7373333d) Dec: +08 44 56.79 (8.74911d) Equinox: J2000	Epoch of Position: 2000	
Comments: Sky background position corresponding to where the comet was for visit 73 Category=Calibration Description=[Telescope/sky background]				

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(2)	3I_ATLAS	TYPE=COMET,Q=1.357039281377507,E=6.1437238 13501433,I=175.1134560105787 ,O=322.1638278685824,W=128.0057194217447,T=29 -OCT- 2025:11:25:18,TTimeScale=TDB,EQUINOX=J2000,E POCH=09-AUG- 2025:00:00:00,EpochTimeScale=TDB		
Comments: Extended=YES				
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.1394337 23877776,I=175.1130926962195 ,O=322.1566409267227,W=128.0097228929673,T=29 -OCT- 2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,E POCH=04-AUG- 2025:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=0. ,A1=4.368369102478E-8,A2=1.595561385155E- 8,A3=-5.178292989731E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		
Comments: Extended=YES				
(6)	3I_ATLAS_Epoch3	TYPE=COMET,Q=1.356481057231181,E=6.1413514 49317625,I=175.1164570850441 ,O=322.1696089290778,W=128.0228697185194,T=29 -OCT- 2025:11:53:10,TTimeScale=TDB,EQUINOX=J2000,E POCH=19-FEB- 2026:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=9.478815 ,A1=5.320206165314E-8,A2=1.148166060448E- 8,A3=-6.854491829872E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		
Comments: Extended=YES				

Generic Targets

#	Name	Criteria	Description
(1)	INTERSTELLAR-OBJECT	Interstellar object with V=11-24	

Comments: The selected target-of-opportunity ISO must fulfill the following criteria: (1) orbital eccentricity significantly greater than unity (not caused by gravitational encounters with other Solar System objects); (2) ephemeris motion <108"/hr; (3) visual magnitude in the range 11-24 (or a clear coma detection using ground-based telescopes). The required ToO ISO must be present within the JWST field of regard for a minimum of 14 days, to satisfy our trigger lead time.

Observation

Proposal 5094, Observation 1: Prism (epoch1)

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

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

(Prism (epoch1) (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(2)	3I_ATLAS	TYPE=COMET,Q=1.357039281377507,E=6.1437238 13501433,I=175.1134560105787 ,O=322.1638278685824,W=128.0057194217447,T=29 -OCT- 2025:11:25:18,TTimeScale=TDB,EQUINOX=J2000,E POCH=09-AUG- 2025:00:00:00,EpochTimeScale=TDB		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	NRSIRS2RAPID	10	1	false	true	NONE	4	4	641.911	141763.1

Special Requirements

Between Dates 01-AUG-2025:00:00:00 and 25-AUG-2025:00:00:00

Group Observations 1, 2, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 2: Prism (epoch1) nod off

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

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

(Prism (epoch1) nod off (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(2)	3I_ATLAS	TYPE=COMET,Q=1.357039281377507,E=6.1437238 13501433,I=175.1134560105787 ,O=322.1638278685824,W=128.0057194217447,T=29 -OCT- 2025:11:25:18,TTimeScale=TDB,EQUINOX=J2000,E POCH=09-AUG- 2025:00:00:00,EpochTimeScale=TDB		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	NRSIRS2RAPID	10	1	false	true	NONE	4	4	641.911	141763.1

Special Requirements

Offset 180.0 arcsec, 0.0 arcsec

Group Observations 1, 2, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 3: Prism (epoch3)

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

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

(Prism (epoch3) (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(6)	3I_ATLAS_Epoch3	TYPE=COMET,Q=1.356481057231181,E=6.141351449317625,I=175.1164570850441,O=322.1696089290778,W=128.0228697185194,T=29-OCT-2025:11:53:10,TTimeScale=TDB,EQUINOX=J2000,EPOCH=19-FEB-2026:00:00:00,EpochTimeScale=TDB,R0=1.,DT=9.478815,A1=5.320206165314E-8,A2=1.148166060448E-8,A3=-6.854491829872E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	NRSIRS2RAPID	60	1	false	true	NONE	4	4	3559.689	141763.3

Special Requirements

Group Observations 3, 4, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch3 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 4: Prism (epoch3) nod off

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Prism (epoch3) nod off (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(6)	3I_ATLAS_Epoch3	TYPE=COMET,Q=1.356481057231181,E=6.1413514 49317625,I=175.1164570850441 ,O=322.1696089290778,W=128.0228697185194,T=29 -OCT- 2025:11:53:10,TTimeScale=TDB,EQUINOX=J2000,E POCH=19-FEB- 2026:00:00:00,EpochTimeScale=TDB,R0=1. ,DT=9.478815 ,A1=5.320206165314E-8,A2=1.148166060448E- 8,A3=-6.854491829872E-9 ,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	NRSIRS2RAPID	60	1	false	true	NONE	4	4	3559.689	141763.3

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

Group Observations 3, 4, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch3 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 13: Prism (epoch2)

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

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

(Prism (epoch2) (Obs 13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	NRSIRS2RAPID	10	1	false	true	NONE	4	4	641.911	141763.3

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 14: Prism (epoch2) nod off

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Prism (epoch2) nod off (Obs 14)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	PRISM/CLEAR	NRSIRS2RAPID	10	1	false	true	NONE	4	4	641.911	141763.3

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 5: G235H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G235H (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G235H/F170LP	NRSIRS2RAPID	10	1	false	true	NONE	4	4	641.911	141763.1

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 6: G235H nod off

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G235H nod off (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G235H/F170LP	NRSIRS2RAPID	10	1	false	true	NONE	4	4	641.911	141763.1

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 7: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 71: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 71:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 71)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 72: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 72:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 72)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 73: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 73:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 73)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 74: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 74:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 74)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 8: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

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

(G395H (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	12	1	false	true	NONE	4	4	758.622	141763.2

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 85: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 85:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	BG7	RA: 10 27 45.8100 (156.9408750d) Dec: +08 40 58.00 (8.68278d) Equinox: J2000	Epoch of Position: 2000	

Comments: Sky background position corresponding to where the comet was for visit 7
Category=Calibration
Description=[Telescope/sky background]
Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	12	1	false	true	NONE	4	4	758.622	141763.2

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 81: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 81:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 81)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 82: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 82:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 82)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 83: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 83:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 83)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 86: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 86:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(5)	BG73	RA: 10 26 56.9600 (156.7373333d) Dec: +08 44 56.79 (8.74911d) Equinox: J2000	Epoch of Position: 2000	

Comments: Sky background position corresponding to where the comet was for visit 73
Category=Calibration
Description=[Telescope/sky background]

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 84: G395H

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 84:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(G395H (Obs 84)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	11	1	false	true	NONE	4	4	700.267	141763.2

Special Requirements

Offset 300.0 arcsec, 0.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 9: LRS

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: MIRI Low Resolution Spectroscopy

Diagnostics

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

(LRS (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Acquisition

#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
1	SAME	F560W	FASTGRPAVG	4	1	1	44.401	141764.20

Template

Subarray	Obtain Verification Image?
FULL	true

Dithers

#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset
1	ALONG SLIT NOD				

Pointing Verification

#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	Optional ETC ID	Filter
1	FASTR1	8	1	1	1	1	22.2		F560W

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	Optional ETC ID
1	FASTR1	40	2	4	1	2	449.556	141764.17

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 10: LRS nod off Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: MIRI Low Resolution Spectroscopy

Comments: Off-source nodding is required for background subtraction in the event of an extended coma, and will only be required if a coma is detected in our (epoch 1) NIRSpec prism observations.

Diagnostics

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

(LRS nod off (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Subarray	Obtain Verification Image?
F1500W	FULL	false

Dithers

#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset
1	ALONG SLIT NOD				

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	Optional ETC ID
1	FASTR1	40	2	4	1	2	449.556	141764.17

Special Requirements	
	Offset 300.0 arcsec, 0.0 arcsec DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 11: NIRCam

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRCam Imaging

Diagnostics

(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(NIRCam (Obs 11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

Module	Subarray
B	FULL

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions
1	INTRAMODULEX	4	STANDARD		1

Spectral Elements

#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
1	F150W	F480M	BRIGHT2	5	1	4	4	429.471	175593

Special Requirements

Offset 38.0 arcsec, 38.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 21: NIRCam

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRCam Imaging

Diagnostics

(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(NIRCam (Obs 21)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

Module	Subarray
B	FULL

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions
1	INTRAMODULEX	4	STANDARD		1

Spectral Elements

#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
1	F150W	F480M	BRIGHT2	5	1	4	4	429.471	175593

Special Requirements

Offset 38.0 arcsec, 38.0 arcsec

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075

Observation

Proposal 5094, Observation 12: MIRI Imaging

Wed Feb 25 22:00:19 GMT 2026

Diagnostic Status: Warning

Observing Template: MIRI Imaging

Diagnostics

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

(MIRI Imaging (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Solar System Targets

#	Name	Level 1	Level 2	Level 3
(3)	3I_ATLAS_Epoch2	TYPE=COMET,Q=1.356418237859906,E=6.139433723877776,I=175.1130926962195,O=322.1566409267227,W=128.0097228929673,T=29-OCT-2025:11:34:18,TTimeScale=TDB,EQUINOX=J2000,EPOCH=04-AUG-2025:00:00:00,EpochTimeScale=TDB,R0=1.,DT=0.,A1=4.368369102478E-8,A2=1.595561385155E-8,A3=-5.178292989731E-9,ALN=1.,NM=2.,NN=0.,NK=0.,AMRAT=0.		

Comments: Extended=YES

Template

Subarray
SUB128

Dithers

#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size
1	CYCLING	1	8		2	2			DEFAULT

Spectral Elements

#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	F1800W	FASTR1	20	1	1	Dither 1	8	8	19.046	175593

Special Requirements

DEFAULT WINDOW: ANGULAR RATE 3I_ATLAS_Epoch2 FROM JWST LESS THAN 0.075