



# 1802 - Investigating Protostellar Accretion Across the Mass Spectrum

Cycle: 1, Proposal Category: GO

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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JWST Proposal 1802 (Created: Friday, June 9, 2023 at 6:01:54 PM Eastern Standard Time) - Overview

<i>Name</i>	<i>Institution</i>
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Dr. Thomas Stanke (CoI) (ESA Member)	European Southern Observatory - Germany
Prof. Amelia Marie Stutz (CoI)	Universidad de Concepcion
Dr. Ewine F. Van Dishoeck (CoI) (ESA Member)	Universiteit Leiden
Dr. Scott J. Wolk (CoI)	Smithsonian Institution Astrophysical Observatory
Dr. Yao-Lun Yang (CoI)	RIKEN Wako Institute
Dr. James Muzerolle (CoI)	Space Telescope Science Institute

**OBSERVATIONS**

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	B335 MIRI IFU	MIRI Medium Resolution Spectroscopy	(2) B335-SPECTROSCOPY
	2	B335 MIRI IFU background	MIRI Medium Resolution Spectroscopy	(3) B335-BACKGROUND
	3	B335 NIRSpec	NIRSpec IFU Spectroscopy	(1) B335
	5	HOPS370 MIRI IFU	MIRI Medium Resolution Spectroscopy	(5) HOPS370-SPECTROSCOPY
	6	HOPS370 MIRI IFU background	MIRI Medium Resolution Spectroscopy	(6) HOPS370-BACKGROUND
	7	HOPS370 NIRSpec	NIRSpec IFU Spectroscopy	(4) HOPS370
	9	IRAS 20126 MIRI IFU	MIRI Medium Resolution Spectroscopy	(8) IRAS20126-SPECTROSCOPY
	10	IRAS 20126 MIRI IFU background	MIRI Medium Resolution Spectroscopy	(10) IRAS20126-BACKGROUND
	11	IRAS 20126 NIRSpec	NIRSpec IFU Spectroscopy	(7) IRAS20126
	13	IRAS 16253 MIRI IFU	MIRI Medium Resolution Spectroscopy	(13) IRAS16253-SPECTROSCOPY
	14	IRAS 16253 MIRI IFU background	MIRI Medium Resolution Spectroscopy	(14) IRAS16253-BACKGROUND
	15	IRAS 16253 NIRSpec	NIRSpec IFU Spectroscopy	(12) IRAS16253
	17	HOPS 153 MIRI IFU	MIRI Medium Resolution Spectroscopy	(17) HOPS153-SPECTROSCOPY

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	18	HOPS 153 MIRI IFU background	MIRI Medium Resolution Spectroscopy	(16) HOPS153-BACKGROUND
	19	HOPS 153 NIRSpec	NIRSpec IFU Spectroscopy	(15) HOPS153

## ABSTRACT

We propose an Investigation of Protostellar Accretion (IPA) and accretion driven feedback using the NIRSpec and MIRI MRS IFUs. IPA will target 5 protostars with luminosities of 0.2 to 10,000 L<sub>sun</sub>, stellar masses of 0.1 to 12 M<sub>sun</sub>, and distances of 150 pc to 1.6 kpc. Each shows a disk + outflow cavity morphology, is in its primary accretion phase, is deeply embedded, and requires observations at > 3 micron. Using JWST's combination of sensitivity, angular resolution, and spectral resolution, IPA will observe each protostar in the 2.9-28 micron range and map ionic, atomic, molecular and continuum emission at spatial resolutions of 30 AU (for the lowest mass sources) to 300 AU (for the highest mass source). IPA will use spectroscopic signatures of disk accretion to measure the rate and mode of mass accretion, and measure how accretion scales with stellar mass. It will also observe shocks due to wide angle winds carving cavities into the protostellar envelopes, using the angular resolution of JWST to measure mass flow and velocity along the cavities. The combination of accretion and wind data will show how the wind properties depend on accretion. Finally, IPA will look for the effect of radiative feedback from the most massive protostar, testing models of high mass star formation that require the release of radiation along outflow cavities. In total, IPA will observe in unprecedented detail the coupled accretion and feedback that plays a central role in determining the masses of stars, providing essential inputs for cloud scale simulations of star formation and the initial mass function, and setting the stage for future surveys with JWST to enlarge the sample.

## OBSERVING DESCRIPTION

We will obtain observations of five protostars with the IFUs of NIRSpec and MIRI MRS.

MIRI MRS: IPA will observe in all three sub-bands of the four channels of the MRS. We will use a 2 x 2 mosaic with 10% overlap for four targets, and a 1 x 3 mosaic, with position angle constraint for the fifth. At each position, we will acquire 4 dithers to recover fully sampled data and to obtain redundancy in the data. To maximize dynamic range of the observations we use the FAST mode. We adopt 100 groups and 1 integration for three sources, 50 groups and 2 integrations for a fourth, and 10 groups with 4 integrations for the brightest source. We will obtain MIRI imaging simultaneously with integration times reduced to 25 groups in the F770W, F1280W, and F1500W. These will be used to register the IFU fields. Background observations with identical configurations and integration times will be taken at a nearby position chosen to avoid nebulosity and minimize stellar contamination.

## JWST Proposal 1802 (Created: Friday, June 9, 2023 at 6:01:54 PM Eastern Standard Time) - Overview

NIRSpec: IPA will use the IFU in the G395M setting in a 2 x 2 mosaic with 10% overlap and the 4 point dither mode. To maximize dynamic range and sensitivity, we will use the NRSIRS2RAPID mode with 30 groups and 1 integration, 15 groups and 1 integration, or 15 groups with 2 integrations. We will also obtain leakage measurements for all the dithers for three of our sources with complex environments. We will use the fixed slits for backgrounds as well as the IFU images themselves to subtract out complex, spatially varying astrophysical backgrounds.

# Proposal 1802 - Targets - Investigating Protostellar Accretion Across the Mass Spectrum

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
(1)	B335	RA: 19 37 0.8940 (294.2537250d) Dec: +07 34 9.59 (7.56933d) Equinox: J2000			
<i>Comments:</i> Category=Star Description=[Protostars, Young stellar objects] Extended=YES					
(2)	B335-SPECTROSCOPY	RA: 19 37 0.8940 (294.2537250d) Dec: +07 34 9.59 (7.56933d) Equinox: J2000			
<i>Comments:</i> Category=Star Description=[Protostars, Young stellar objects] Extended=YES					
(3)	B335-BACKGROUND	RA: 19 37 0.2680 (294.2511167d) Dec: +07 36 21.92 (7.60609d) Equinox: J2000			
<i>Comments:</i> Category=Calibration Description=[Telescope/sky background] Extended=YES					
Fixed Targets	(4)	HOPS370	RA: 05 35 27.6340 (83.8651417d) Dec: -05 09 34.42 (-5.15956d) Equinox: J2000		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protostars, Young stellar objects] Extended=YES				
	(5)	HOPS370-SPECTROSCOPY	RA: 05 35 27.6340 (83.8651417d) Dec: -05 09 34.42 (-5.15956d) Equinox: J2000		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Protostars, Young stellar objects] Extended=YES				
	(6)	HOPS370-BACKGROUND	RA: 05 35 7.8140 (83.7825583d) Dec: -05 08 44.29 (-5.14564d) Equinox: J2000		
	<i>Comments:</i> Category=Calibration Description=[Telescope/sky background] Extended=YES				
	(7)	IRAS20126	RA: 20 14 26.0300 (303.6084583d) Dec: +41 13 32.57 (41.22571d) Equinox: J2000		
<i>Comments:</i> Category=Star Description=[Protostars, Young stellar objects] Extended=YES					

## Proposal 1802 - Targets - Investigating Protostellar Accretion Across the Mass Spectrum

(8)	IRAS20126- SPECTROSCOPY	RA: 20 14 26.0300 (303.6084583d) Dec: +41 13 32.57 (41.22571d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Star</i>  <i>Description=[Protostars, Young stellar objects]</i>  <i>Extended=YES</i></p>		
(10)	IRAS20126-BACKGROUND	RA: 20 14 12.0640 (303.5502667d) Dec: +41 13 34.82 (41.22634d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=[Telescope/sky background]</i>  <i>Extended=YES</i></p>		
(12)	IRAS16253	RA: 16 28 21.6200 (247.0900833d) Dec: -24 36 24.16 (-24.60671d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Star</i>  <i>Description=[Protostars, Young stellar objects]</i>  <i>Extended=YES</i></p>		
(13)	IRAS16253- SPECTROSCOPY	RA: 16 28 21.6200 (247.0900833d) Dec: -24 36 24.16 (-24.60671d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Star</i>  <i>Description=[Protostars, Young stellar objects]</i>  <i>Extended=YES</i></p>		
(14)	IRAS16253-BACKGROUND	RA: 16 28 27.7560 (247.1156500d) Dec: -24 37 46.95 (-24.62971d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=[Telescope/sky background]</i>  <i>Extended=YES</i></p>		
(15)	HOPS153	RA: 05 37 57.0230 (84.4875958d) Dec: -07 06 56.27 (-7.11563d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Star</i>  <i>Description=[Protostars, Young stellar objects]</i>  <i>Extended=YES</i></p>		
(16)	HOPS153-BACKGROUND	RA: 05 37 55.6220 (84.4817583d) Dec: -07 05 47.06 (-7.09641d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Calibration</i>  <i>Description=[Telescope/sky background]</i>  <i>Extended=YES</i></p>		

## Proposal 1802 - Targets - Investigating Protostellar Accretion Across the Mass Spectrum

(17) HOPS153-SPECTROSCOPY RA: 05 37 57.0230 (84.4875958d)  
Dec: -07 06 56.27 (-7.11563d)  
Equinox: J2000

*Comments:*

*Category=Star*

*Description=[Protostars, Young stellar objects]*

*Extended=YES*

Proposal 1802 - Observation 1 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 1: B335 MIRI IFU</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[B335 MIRI IFU background (Obs 2)]												
	(B335 MIRI IFU (Obs 1)) Warning (Form): Imager Filter overlap. (B335 MIRI IFU (Obs 1)) Warning (Form): Imager Filter overlap. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
<b>Diagnosics</b>													
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(2)	B335-SPECTROSCOPY	RA: 19 37 0.8940 (294.2537250d) Dec: +07 34 9.59 (7.56933d) Equinox: J2000										
Comments: Category=Star Description=[Protostars, Young stellar objects] Extended=YES													
<b>Acquisition</b>	#	Target											
	1	NONE											
<b>Template</b>	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
	F1500W	ALL			YES		FULL		NEUTRAL				
<b>Mosaic</b>	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order						
	2	2	10.0	10.0	0.0	0.0	DEFAULT						
<b>Dithers</b>	#	Dither Type			Optimized For			Direction					
	1	4-Point			EXTENDED SOURCE			NEGATIVE					
<b>Spectral Elements</b>	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F1500W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	1	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	1	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2		IMAGER	F1280W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3		IMAGER	F770W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	3	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	



Proposal 1802 - Observation 1 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 1802 - Observation 2 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 2: B335 MIRI IFU background</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [B335 MIRI IFU (Obs 1)]																																																																																																																																													
	(B335 MIRI IFU background (Obs 2)) Warning (Form): Imager Filter overlap. (B335 MIRI IFU background (Obs 2)) Warning (Form): Imager Filter overlap. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/E xp</th> <th>Exposures/Dit h</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F1280W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> </tbody> </table>												#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1		IMAGER	F1500W	FASTR1	25	4	1	Dither 1	4	16	1143.316		1	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		1	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716		2		IMAGER	F1280W	FASTR1	25	4	1	Dither 1	4	16	1143.316		2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716		3		IMAGER	F770W	FASTR1	25	4	1	Dither 1	4	16	1143.316		3	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		3	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																																																																																																																	
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Proposal 1802 - Observation 2 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 1, 2, Non-interruptible

# Proposal 1802 - Observation 3 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 3: B335 NIRSpec</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy											
<b>Diagnostics</b>	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(1)	B335	RA: 19 37 0.8940 (294.2537250d) Dec: +07 34 9.59 (7.56933d) Equinox: J2000									
	<i>Comments:</i> Category=Star Description=[Protostars, Young stellar objects] Extended=YES											
<b>Template</b>	<b>TA Method</b>											
	NONE											
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>					
	2	2	10.0	10.0	0.0	0.0	DEFAULT					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Size</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>						
	1	4-POINT-DITHER										
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G395M/F290LP	NRSIRS2RAPID	30	1	false	true	NONE	4	4	1809.022	

Proposal 1802 - Observation 3 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Aperture PA Range 208.89297485 to 238.89297485 Degrees (V3 69.92044067 to 99.92044067)

Proposal 1802 - Observation 5 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 5: HOPS370 MIRI IFU</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[HOPS370 MIRI IFU background (Obs 6)]																																																																																																																																													
	(HOPS370 MIRI IFU (Obs 5)) Warning (Form): Imager Filter overlap. (HOPS370 MIRI IFU (Obs 5)) Warning (Form): Imager Filter overlap. (Visit 5:1) Warning (Form): Data Excess over lower threshold (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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Proposal 1802 - Observation 5 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 1802 - Observation 6 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 6: HOPS370 MIRI IFU background</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [HOPS370 MIRI IFU (Obs 5)]																																																																																																																																													
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Comments: Category=Calibration Description=[Telescope/sky background] Extended=YES																																																																																																																																														
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Proposal 1802 - Observation 6 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 1802 - Observation 7 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<p><b>Proposal 1802, Observation 7: HOPS370 NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
<b>Diagnostics</b>	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(4)	HOPS370	RA: 05 35 27.6340 (83.8651417d) Dec: -05 09 34.42 (-5.15956d) Equinox: J2000									
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Protostars, Young stellar objects]</i></p> <p><i>Extended=YES</i></p>											
<b>Template</b>	<b>TA Method</b>											
	NONE											
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>					
	2	2	10.0	10.0	0.0	0.0	DEFAULT					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Size</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>						
	1	4-POINT-DITHER										
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G395M/F290LP	NRSIRS2RAPI D	15	1	false	true	NONE	4	4	933.689	
	2	G395M/F290LP	NRSIRS2RAPI D	15	1	true	true	NONE	4	4	933.689	

Proposal 1802 - Observation 9 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 9: IRAS 20126 MIRI IFU</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[IRAS 20126 MIRI IFU background (Obs 10)]																																																																																																																																													
	(IRAS 20126 MIRI IFU (Obs 9)) Warning (Form): Imager Filter overlap. (IRAS 20126 MIRI IFU (Obs 9)) Warning (Form): Imager Filter overlap. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 9:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.																																																																																																																																													
<b>Diagnosics</b>																																																																																																																																														
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(8)</td> <td>IRAS20126-SPECTROSCOPY</td> <td>RA: 20 14 26.0300 (303.6084583d) Dec: +41 13 32.57 (41.22571d) Equinox: J2000</td> <td colspan="4"></td> <td></td> </tr> <tr> <td colspan="7"> <i>Comments:</i>  <i>Category=Star</i>  <i>Description=[Protostars, Young stellar objects]</i>  <i>Extended=YES</i> </td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous	(8)	IRAS20126-SPECTROSCOPY	RA: 20 14 26.0300 (303.6084583d) Dec: +41 13 32.57 (41.22571d) Equinox: J2000						<i>Comments:</i> <i>Category=Star</i> <i>Description=[Protostars, Young stellar objects]</i> <i>Extended=YES</i>																																																																																																																	
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## Proposal 1802 - Observation 9 - Investigating Protostellar Accretion Across the Mass Spectrum

### Special Requirements

Aperture PA Range 196 to 220 Degrees (V3 196.0 to 220.0)

Sequence Observations 9, 10, Non-interruptible

Proposal 1802 - Observation 10 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 10: IRAS 20126 MIRI IFU background</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [IRAS 20126 MIRI IFU (Obs 9)]																																																																																																																																													
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Comments: Category=Calibration Description=[Telescope/sky background] Extended=YES																																																																																																																																														
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Proposal 1802 - Observation 10 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 9, 10, Non-interruptible

Proposal 1802 - Observation 11 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<p><b>Proposal 1802, Observation 11: IRAS 20126 NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
<b>Diagnostics</b>	<p>(Visit 11:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(7)	IRAS20126	RA: 20 14 26.0300 (303.6084583d)									
			Dec: +41 13 32.57 (41.22571d)									
			Equinox: J2000									
	<p><i>Comments:</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Protostars, Young stellar objects]</i></p> <p><i>Extended=YES</i></p>											
<b>Template</b>	<b>TA Method</b>											
	NONE											
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>					
	2	2	10.0	10.0	0.0	0.0	DEFAULT					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Size</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>						
	1	4-POINT-DITHER										
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G395M/F290LP	NRSIRS2RAPID	6	5	false	true	NONE	4	20	2042.445	
	2	G395M/F290LP	NRSIRS2RAPID	6	5	true	true	NONE	4	20	2042.445	

# Proposal 1802 - Observation 13 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 13: IRAS 16253 MIRI IFU</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[IRAS 16253 MIRI IFU background (Obs 14)]												
	(IRAS 16253 MIRI IFU (Obs 13)) Warning (Form): Imager Filter overlap. (IRAS 16253 MIRI IFU (Obs 13)) Warning (Form): Imager Filter overlap. (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>				<b>Miscellaneous</b>				
	(13)	IRAS16253-SPECTROSCOPY	RA: 16 28 21.6200 (247.0900833d) Dec: -24 36 24.16 (-24.60671d) Equinox: J2000										
Comments: Category=Star Description=[Protostars, Young stellar objects] Extended=YES													
<b>Acquisition</b>	<b>#</b>	<b>Target</b>											
	1	NONE											
<b>Template</b>	<b>AcqFilter</b>	<b>Primary Channel</b>			<b>Simultaneous Imaging</b>			<b>Imager Subarray</b>		<b>Grating Wheel Direction</b>			
	F1500W	ALL			YES			FULL		NEUTRAL			
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>						
	2	2	10.0	10.0	0.0	0.0	DEFAULT						
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>			<b>Optimized For</b>				<b>Direction</b>				
	1	4-Point			EXTENDED SOURCE				NEGATIVE				
<b>Spectral Elements</b>	<b>#</b>	<b>Wavelength Range</b>	<b>Detector</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1		IMAGER	F770W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	1	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2		IMAGER	F1280W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3		IMAGER	F1500W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	



Proposal 1802 - Observation 13 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 13, 14, Non-interruptible

Proposal 1802 - Observation 14 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 14: IRAS 16253 MIRI IFU background</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [IRAS 16253 MIRI IFU (Obs 13)]																																																																																																																																													
	(IRAS 16253 MIRI IFU background (Obs 14)) Warning (Form): Imager Filter overlap. (IRAS 16253 MIRI IFU background (Obs 14)) Warning (Form): Imager Filter overlap. (Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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<b>Acquisition</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>												#	Target	1	NONE																																																																																																																														
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F1500W	ALL	YES	FULL	NEUTRAL																																																																																																																																										
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/E xp</th> <th>Exposures/Dit h</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F1280W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> </tbody> </table>												#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1		IMAGER	F770W	FASTR1	25	4	1	Dither 1	4	16	1143.316		1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		1	SHORT(A)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716		2		IMAGER	F1280W	FASTR1	25	4	1	Dither 1	4	16	1143.316		2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		2	MEDIUM(B)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716		3		IMAGER	F1500W	FASTR1	25	4	1	Dither 1	4	16	1143.316		3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		3	LONG(C)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																																																																																																																	
	1		IMAGER	F770W	FASTR1	25	4	1	Dither 1	4	16	1143.316																																																																																																																																		
	1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716																																																																																																																																		
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	2		IMAGER	F1280W	FASTR1	25	4	1	Dither 1	4	16	1143.316																																																																																																																																		
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716																																																																																																																																		
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	3		IMAGER	F1500W	FASTR1	25	4	1	Dither 1	4	16	1143.316																																																																																																																																		
	3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716																																																																																																																																		
	3	LONG(C)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716																																																																																																																																		

Proposal 1802 - Observation 14 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 13, 14, Non-interruptible

Proposal 1802 - Observation 15 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<p><b>Proposal 1802, Observation 15: IRAS 16253 NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
<b>Diagnostics</b>	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(12)	IRAS16253	RA: 16 28 21.6200 (247.0900833d) Dec: -24 36 24.16 (-24.60671d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Star</i>  <i>Description=[Protostars, Young stellar objects]</i>  <i>Extended=YES</i></p>											
<b>Template</b>	<b>TA Method</b>											
	NONE											
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>					
	2	2	10.0	10.0	0.0	0.0	DEFAULT					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Size</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>						
	1	4-POINT-DITHER										
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G395M/F290LP	NRSIRS2RAPID	30	1	false	true	NONE	4	4	1809.022	

# Proposal 1802 - Observation 17 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 17: HOPS 153 MIRI IFU</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[HOPS 153 MIRI IFU background (Obs 18)]												
	(HOPS 153 MIRI IFU (Obs 17)) Warning (Form): Imager Filter overlap. (HOPS 153 MIRI IFU (Obs 17)) Warning (Form): Imager Filter overlap. (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(17)	HOPS153-SPECTROSCOPY	RA: 05 37 57.0230 (84.4875958d) Dec: -07 06 56.27 (-7.11563d) Equinox: J2000										
Comments: Category=Star Description=[Protostars, Young stellar objects] Extended=YES													
<b>Acquisition</b>	#	Target											
	1	NONE											
<b>Template</b>	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
	F1500W	ALL			YES		FULL		NEUTRAL				
<b>Mosaic</b>	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order						
	2	2	10.0	10.0	0.0	0.0	DEFAULT						
<b>Dithers</b>	#	Dither Type			Optimized For			Direction					
	1	4-Point			EXTENDED SOURCE			NEGATIVE					
<b>Spectral Elements</b>	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	1	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2		IMAGER	F1280W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3		IMAGER	F1500W	FASTR1	25	4	1	Dither 1	4	16	1143.316	
	3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	

Proposal 1802 - Observation 17 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 17, 18, Non-interruptible

Proposal 1802 - Observation 18 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<b>Proposal 1802, Observation 18: HOPS 153 MIRI IFU background</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [HOPS 153 MIRI IFU (Obs 17)]																																																																																																																																													
	(HOPS 153 MIRI IFU background (Obs 18)) Warning (Form): Imager Filter overlap. (HOPS 153 MIRI IFU background (Obs 18)) Warning (Form): Imager Filter overlap. (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/E xp</th> <th>Exposures/Dit h</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F1280W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>25</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>16</td> <td>1143.316</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>1146.716</td> <td></td> </tr> </tbody> </table>												#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1		IMAGER	F770W	FASTR1	25	4	1	Dither 1	4	16	1143.316		1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		1	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716		2		IMAGER	F1280W	FASTR1	25	4	1	Dither 1	4	16	1143.316		2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716		3		IMAGER	F1500W	FASTR1	25	4	1	Dither 1	4	16	1143.316		3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716		3	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
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Proposal 1802 - Observation 18 - Investigating Protostellar Accretion Across the Mass Spectrum

Special Requirements

Sequence Observations 17, 18, Non-interruptible



Proposal 1802 - Observation 19 - Investigating Protostellar Accretion Across the Mass Spectrum

Fri Jun 09 23:01:54 GMT 2023

<b>Observation</b>	<p><b>Proposal 1802, Observation 19: HOPS 153 NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
<b>Diagnostics</b>	<p>(Visit 19:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(15)	HOPS153	RA: 05 37 57.0230 (84.4875958d) Dec: -07 06 56.27 (-7.11563d) Equinox: J2000									
	<p><i>Comments:</i>  <i>Category=Star</i>  <i>Description=[Protostars, Young stellar objects]</i>  <i>Extended=YES</i></p>											
<b>Template</b>	<b>TA Method</b>											
	NONE											
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>					
	2	2	10.0	10.0	0.0	0.0	DEFAULT					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Size</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>						
	1	4-POINT-DITHER										
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G395M/F290LP	NRSIRS2RAPI D	30	1	false	true	NONE	4	4	1809.022	
	2	G395M/F290LP	NRSIRS2RAPI D	30	1	true	true	NONE	4	4	1809.022	