



3375 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Cycle: 2, Proposal Category: GO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Johanna Vos (CoI) (ESA Member)	University of Dublin, Trinity College
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<i>Name</i>	<i>Institution</i>
Mr. Evert Nasedkin (CoI) (ESA Member)	Max Planck Institute for Astronomy
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Dr. Emily Rickman (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Prof. Nathan J Mayne (CoI) (ESA Member)	University of Exeter

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
VHS 1256 b				
	1	NIRSpec-G395H - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	2	NIRSpec-PRISM - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	3	MIRI-MRS TSO	MIRI Medium Resolution Spectroscopy	(1) VHS1256B
	4	NIRSpec-G395H - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	5	NIRSpec-PRISM - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
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	10	NIRSpec-G395H - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	11	NIRSpec-PRISM - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	12	MIRI-MRS TSO	MIRI Medium Resolution Spectroscopy	(1) VHS1256B
	13	NIRSpec-G395H - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	14	NIRSpec-PRISM - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	15	MIRI-MRS TSO	MIRI Medium Resolution Spectroscopy	(1) VHS1256B
	16	NIRSpec-G395H - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B

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	17	NIRSpec-PRISM - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	18	MIRI-MRS TSO	MIRI Medium Resolution Spectroscopy	(1) VHS1256B
	19	NIRSpec-G395H - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	20	NIRSpec-PRISM - BO TS	NIRSpec Bright Object Time Series	(1) VHS1256B
	21	MIRI-MRS TSO	MIRI Medium Resolution Spectroscopy	(1) VHS1256B

ABSTRACT

Time-series observations of rotational modulations in brown dwarfs and planetary-mass companions are a powerful tool to characterize ultra-cool atmospheres. Nearly 100 of these objects have been shown to have rotational variability with the long-term assumption that this was being driven by evolving heterogeneous cloud coverage, but this has never been unequivocally proven as there has never been a mid-IR spectral variability campaign where the signatures of such clouds are detectable at $\sim 10 \mu\text{m}$. In the last decade, chemical disequilibrium-induced convection has been proposed as another potential mechanism that can explain rotational variability, with the spectral signature for this being most prominent between 3 to 5 μm . This debate can only be settled by using JWST's mid-IR spectral capabilities. Therefore, we propose spectral monitoring of VHS 1256 b, the most variable substellar object. Specifically, we will combine extremely high S/N and interleaved NIRSpec/PRISM, NIRSpec/G395H/F290LP, and MIRI/LRS spectroscopy to map the evolution of the near-IR variability relative to the signatures of the two proposed mechanisms across a full 22-hour rotation. VHS 1256 b was a JWST ERS target which resulted in a high-quality 1 to 28 μm spectrum. Our program will add a unique and critical dimension to the analysis of this data and allow us to break a model degeneracy which will have a stark implication on both 1- and 3-D modeling approaches. We waive the proprietary data period and will make any resulting data reduction tools available to the community in order for it to serve as a springboard for similar variability investigative proposals in future cycles.

OBSERVING DESCRIPTION

We observe VHS 1256b using NIRSpec PRISM, NIRSpec G395H/F290LP, and MIRI LRS in time series mode to observe its spectroscopic variability. For NIRSpec, we use the BOT template; for MIRI, we use LRS time series observations. We cycle through the three modes to cover one rotation (22 hr) of VHS 1256 b.

We optimize group and integration numbers for cadence and SNR. For prism observations, we use the SUB 512 subarray, NRS readout pattern, 20 groups per integration, and 4 integration per exposure. This provides an S/N of 447 at 2.95 microns.

For G395H observations, we use the SUB2048 subarray, NRS readout pattern, 110 groups per integration and 7 integration per exposure. This

JWST Proposal 3375 (Created: Thursday, June 13, 2024 at 7:00:24 PM Eastern Standard Time) - Overview

provides an SNR of 626 at 3.50 microns.

For MIRI LRS observations, we use the slitless mode, FASTR1 readout pattern, 360 groups per integration and 35 integrations per exposure. This provides an SNR of 627 at 10 microns.

Each time we switch to NIRSpec or MIRI we allow for the 30 minute detector settling period.

We cycle the three modes for nine times to achieve the 22 hr baseline.

Proposal 3375 - Targets - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478	
<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO					

Proposal 3375 - Observation 1 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	<p>Proposal 3375, Observation 1: NIRSpec-G395H - BOTS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>										
Diagnostics	(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)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000			Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478					
	<p><i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B dwarfs, Exoplanets]</i></p> <p><i>Extended=NO</i></p>										
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966.11
Template	<p>Subarray</p> <p>SUB2048</p>										
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	500	8	1	1	8	3615.38	200966.8	
Special Requirements	<p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible</p>										

Proposal 3375 - Observation 2 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	Proposal 3375, Observation 2: NIRSpec-PRISM - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series																																										
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																										
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible																																										

Proposal 3375 - Observation 3 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	Proposal 3375, Observation 3: MIRI-MRS TSO Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Miscellaneous		
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000				Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478						
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Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	F1000W	FAST	4	1	1	11.1	200966.9				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			NO			FULL			NEUTRAL			
Spectral Elements	#	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	SHORT(A)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	1	SHORT(A)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	2	MEDIUM(B)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	3	LONG(C)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.20
	3	LONG(C)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.20
Special Requirements	Offset 0.85523 arcsec, -0.2151 arcsec Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible												

Proposal 3375 - Observation 4 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	<p>Proposal 3375, Observation 4: NIRSpec-G395H - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series</p>																															
Diagnostics	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																															
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Proposal 3375 - Observation 5 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	<p>Proposal 3375, Observation 5: NIRSpec-PRISM - BOTS Fri Jun 14 00:00:24 GMT 2024</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																															
Diagnostics	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																															
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#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12																							
Special Requirements	<p>Time Series Observation No Parallel Attachments</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible</p>																															

Proposal 3375 - Observation 6 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	Proposal 3375, Observation 6: MIRI-MRS TSO Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Miscellaneous		
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000				Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478						
<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	F1000W	FAST	4	1	1	11.1	200966.9				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			NO			FULL			NEUTRAL			
Spectral Elements	#	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	SHORT(A)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	1	SHORT(A)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	2	MEDIUM(B)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	3	LONG(C)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.20
	3	LONG(C)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.20
Special Requirements	Offset 0.85523 arcsec, -0.2151 arcsec Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible												

Proposal 3375 - Observation 7 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	<p>Proposal 3375, Observation 7: NIRSpec-G395H - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series</p>																																							
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478							<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO</i>									
#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous																																		
(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478																																					
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F140X</td> <td>NRSRAPIDD6</td> <td>3</td> <td>1</td> <td>1</td> <td>0.26</td> <td>200966.11</td> </tr> </tbody> </table>										#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966.11								
#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966.11																														
Template	<p>Subarray SUB2048</p>																																							
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>G395H/F290LP</td> <td>NRSRAPID</td> <td>500</td> <td>8</td> <td>1</td> <td>1</td> <td>8</td> <td>3615.38</td> <td>200966.8</td> </tr> </tbody> </table>										#	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	500	8	1	1	8	3615.38	200966.8										
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1	G395H/F290LP	NRSRAPID	500	8	1	1	8	3615.38	200966.8																															
Special Requirements	<p>Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible</p>																																							

Proposal 3375 - Observation 8 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	<p>Proposal 3375, Observation 8: NIRSpec-PRISM - BOTS Fri Jun 14 00:00:24 GMT 2024</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																															
Diagnostics	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																															
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478								
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Template	<p>Subarray</p> <p>SUB2048</p>																															
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>35</td> <td>12</td> <td>1</td> <td>1</td> <td>12</td> <td>389.91</td> <td>200966.12</td> </tr> </tbody> </table>										#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12		
#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																							
1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12																							
Special Requirements	<p>Time Series Observation No Parallel Attachments</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible</p>																															

Proposal 3375 - Observation 9 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	Proposal 3375, Observation 9: MIRI-MRS TSO Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Miscellaneous		
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000				Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478						
<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	F1000W	FAST	4	1	1	11.1	200966.9				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			NO			FULL			NEUTRAL			
Spectral Elements	#	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	SHORT(A)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	1	SHORT(A)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	2	MEDIUM(B)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	3	LONG(C)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.20
	3	LONG(C)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.20
Special Requirements	Offset 0.85523 arcsec, -0.2151 arcsec Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible												

Proposal 3375 - Observation 10 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	Proposal 3375, Observation 10: NIRSpec-G395H - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series																																										
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																										
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="2">Proper Motion RA: -272.46 mas/yr</td> <td colspan="2">Proper Motion Dec: -190.24 mas/yr</td> <td colspan="4">Epoch of Position: 2024.41478</td> </tr> <tr> <td colspan="11"> Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr		Proper Motion Dec: -190.24 mas/yr		Epoch of Position: 2024.41478				Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO										
	#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous																																			
(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr		Proper Motion Dec: -190.24 mas/yr		Epoch of Position: 2024.41478																																				
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible																																										

Proposal 3375 - Observation 11 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	Proposal 3375, Observation 11: NIRSpec-PRISM - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series																																							
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478							Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO									
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Template	Subarray																																							
	SUB2048																																							
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>35</td> <td>12</td> <td>1</td> <td>1</td> <td>12</td> <td>389.91</td> <td>200966.12</td> </tr> </tbody> </table>										#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12										
	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12																															
Special Requirements	Time Series Observation No Parallel Attachments																																							
	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible																																							

Proposal 3375 - Observation 12 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	Proposal 3375, Observation 12: MIRI-MRS TSO Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000				Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478						
Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	F1000W	FAST	4	1	1	11.1	200966.9				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			NO			FULL			NEUTRAL			
Spectral Elements	#	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	SHORT(A)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	1	SHORT(A)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	2	MEDIUM(B)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	3	LONG(C)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.20
	3	LONG(C)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.20
Special Requirements	Offset 0.85523 arcsec, -0.2151 arcsec Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible												

Proposal 3375 - Observation 13 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	Proposal 3375, Observation 13: NIRSpec-G395H - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series																																							
	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478							<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO</i>									
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(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478																																					
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1	G395H/F290LP	NRSRAPID	500	8	1	1	8	3615.38	200966.8																															
Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible																																							

Proposal 3375 - Observation 14 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	Proposal 3375, Observation 14: NIRSpec-PRISM - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series																																										
	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																										
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="4">Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478</td> <td colspan="4"></td> </tr> <tr> <td colspan="11"> <i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478								<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO										
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F140X</td> <td>NRSRAPIDD6</td> <td>3</td> <td>1</td> <td>1</td> <td>0.26</td> <td>200966</td> </tr> </tbody> </table>										#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966											
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Special Requirements	Time Series Observation No Parallel Attachments																																										
	Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible																																										

Proposal 3375 - Observation 15 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	Proposal 3375, Observation 15: MIRI-MRS TSO Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Miscellaneous		
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000				Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478						
<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	F1000W	FAST	4	1	1	11.1	200966.9				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			NO			FULL			NEUTRAL			
Spectral Elements	#	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	SHORT(A)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	1	SHORT(A)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	2	MEDIUM(B)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	3	LONG(C)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.20
	3	LONG(C)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.20
Special Requirements	Offset 0.85523 arcsec, -0.2151 arcsec Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible												

Proposal 3375 - Observation 16 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	<p>Proposal 3375, Observation 16: NIRSpec-G395H - BOTS</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																																											
Diagnostics	<p>(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																											
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="2">Proper Motion RA: -272.46 mas/yr</td> <td colspan="2">Proper Motion Dec: -190.24 mas/yr</td> <td colspan="4">Epoch of Position: 2024.41478</td> </tr> <tr> <td colspan="11"> <p><i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B dwarfs, Exoplanets]</i></p> <p><i>Extended=NO</i></p> </td> </tr> </tbody> </table>											#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr		Proper Motion Dec: -190.24 mas/yr		Epoch of Position: 2024.41478				<p><i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B dwarfs, Exoplanets]</i></p> <p><i>Extended=NO</i></p>										
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(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr		Proper Motion Dec: -190.24 mas/yr		Epoch of Position: 2024.41478																																					
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Template	<p>Subarray</p> <p>SUB2048</p>																																											
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Special Requirements	<p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible</p>																																											

Proposal 3375 - Observation 17 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	<p>Proposal 3375, Observation 17: NIRSpec-PRISM - BOTS Fri Jun 14 00:00:24 GMT 2024</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																																							
Diagnostics	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478							<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO									
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(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478																																					
<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO																																								
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F140X</td> <td>NRSRAPIDD6</td> <td>3</td> <td>1</td> <td>1</td> <td>0.26</td> <td>200966</td> </tr> </tbody> </table>										#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966								
#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966																														
Template	<p>Subarray</p> <p>SUB2048</p>																																							
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>35</td> <td>12</td> <td>1</td> <td>1</td> <td>12</td> <td>389.91</td> <td>200966.12</td> </tr> </tbody> </table>										#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12										
#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																															
1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12																															
Special Requirements	<p>Time Series Observation No Parallel Attachments</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible</p>																																							

Proposal 3375 - Observation 18 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	Proposal 3375, Observation 18: MIRI-MRS TSO Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000				Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478						
Comments: Coorindates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	F1000W	FAST	4	1	1	11.1	200966.9				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			NO			FULL			NEUTRAL			
Spectral Elements	#	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	SHORT(A)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	1	SHORT(A)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	2	MEDIUM(B)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	3	LONG(C)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.20
	3	LONG(C)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.20
Special Requirements	Offset 0.85523 arcsec, -0.2151 arcsec Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible												

Proposal 3375 - Observation 19 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	Proposal 3375, Observation 19: NIRSpec-G395H - BOTS Fri Jun 14 00:00:24 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec Bright Object Time Series																															
Diagnostics	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																															
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478								
#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous																										
(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478																													
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>TA Method</th> <th>Subarray</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>WATA</td> <td>SUB32</td> <td>F140X</td> <td>NRSRAPIDD6</td> <td>3</td> <td>1</td> <td>1</td> <td>0.26</td> <td>200966.11</td> </tr> </tbody> </table>										#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966.11
#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																						
1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966.11																						
Template	Subarray SUB2048																															
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>G395H/F290LP</td> <td>NRSRAPID</td> <td>500</td> <td>8</td> <td>1</td> <td>1</td> <td>8</td> <td>3615.38</td> <td>200966.8</td> </tr> </tbody> </table>										#	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	500	8	1	1	8	3615.38	200966.8		
#	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	500	8	1	1	8	3615.38	200966.8																							
Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible																															

Proposal 3375 - Observation 20 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Observation	<p>Proposal 3375, Observation 20: NIRSpec-PRISM - BOTS Fri Jun 14 00:00:24 GMT 2024</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																																										
Diagnostics	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																										
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="4">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>VHS1256B</td> <td>RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000</td> <td colspan="2">Proper Motion RA: -272.46 mas/yr</td> <td colspan="2">Proper Motion Dec: -190.24 mas/yr</td> <td colspan="4">Epoch of Position: 2024.41478</td> </tr> <tr> <td colspan="11"> <i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous				(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr		Proper Motion Dec: -190.24 mas/yr		Epoch of Position: 2024.41478				<i>Comments: Coordinates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts).</i> Category=Star Description=[B dwarfs, Exoplanets] Extended=NO										
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(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000	Proper Motion RA: -272.46 mas/yr		Proper Motion Dec: -190.24 mas/yr		Epoch of Position: 2024.41478																																				
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#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																	
1	SAME	WATA	SUB32	F140X	NRSRAPIDD6	3	1	1	0.26	200966																																	
Template	<p>Subarray</p> <p>SUB2048</p>																																										
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>PRISM/CLEAR</td> <td>NRSRAPID</td> <td>35</td> <td>12</td> <td>1</td> <td>1</td> <td>12</td> <td>389.91</td> <td>200966.12</td> </tr> </tbody> </table>										#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12													
#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																		
1	PRISM/CLEAR	NRSRAPID	35	12	1	1	12	389.91	200966.12																																		
Special Requirements	<p>Time Series Observation No Parallel Attachments</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible</p>																																										

Proposal 3375 - Observation 21 - Dancing 1 - 14 micron spectra to solve the cloudy and chemical puzzle of brown dwarf variability

Fri Jun 14 00:00:24 GMT 2024

Observation	Proposal 3375, Observation 21: MIRI-MRS TSO Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections				Miscellaneous		
	(1)	VHS1256B	RA: 12 56 1.3420 (194.0055917d) Dec: -12 57 32.96 (-12.95916d) Equinox: J2000				Proper Motion RA: -272.46 mas/yr Proper Motion Dec: -190.24 mas/yr Epoch of Position: 2024.41478						
Comments: Coorindates determined using Dupuy+2023 RA/Dec offset at Epoch 2024.41478 using GAIA proper motion (of primary binary hosts). Category=Star Description=[B dwarfs, Exoplanets] Extended=NO													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	F1000W	FAST	4	1	1	11.1	200966.9				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	All MRS			NO			FULL			NEUTRAL			
Spectral Elements	#	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	SHORT(A)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	1	SHORT(A)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.18
	2	MEDIUM(B)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.19
	3	LONG(C)	MRSLONG		FASTR1	100	5	1	None	1	5	1398.62	200966.20
	3	LONG(C)	MRSSHORT		FASTR1	100	5	1	None	1	5	1398.62	200966.20
Special Requirements	Offset 0.85523 arcsec, -0.2151 arcsec Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, Non-interruptible												