



# 3486 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Cycle: 2, Proposal Category: GO

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Johanna Vos (PI) (ESA Member)</b>	<b>University of Dublin, Trinity College</b>
Dr. Jacqueline Kelly Faherty (CoI) (US Admin CoI)	American Museum of Natural History
Dr. Ben Burningham (CoI) (ESA Member)	University of Hertfordshire
Dr. Beth Biller (CoI) (ESA Member)	University of Edinburgh, Institute for Astronomy
Dr. Genaro Suarez (CoI)	American Museum of Natural History
Dr. Caroline Morley (CoI)	University of Texas at Austin
Dr. Statia Luszcz Cook (CoI)	New York University
Prof. Kelle L. Cruz (CoI)	City University of New York Hunter College

## OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
2M0355				
	3	2M0355- MIRI	MIRI Low Resolution Spectroscopy	(2) 2MASS-J03552337+1133437
	4	2M0355 - NIRSpec	NIRSpec Fixed Slit Spectroscopy	(2) 2MASS-J03552337+1133437
W1741				
	5	W1741 - MIRI	MIRI Low Resolution Spectroscopy	(1) 2MASS-J17410280-4642218
	6	W1741 - NIRSpec	NIRSpec Fixed Slit Spectroscopy	(1) 2MASS-J17410280-4642218
2M2206				
	7	2M2206 - MIRI	MIRI Low Resolution Spectroscopy	(3) 2MASSW-J2206450-421721
	8	2M2206 - NIRSpec	NIRSpec Fixed Slit Spectroscopy	(3) 2MASSW-J2206450-421721
W0047				
	9	W0047 - MIRI	MIRI Low Resolution Spectroscopy	(4) 2MASS-J00470038+6803543
	10	W0047 - NIRSpec	NIRSpec Fixed Slit Spectroscopy	(4) 2MASS-J00470038+6803543

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
2M2244				
	11	2M2244 - MIRI	MIRI Low Resolution Spectroscopy	(5) 2MASS-J22443167+2043433
	12	2M2244 - NIRSpec	NIRSpec Fixed Slit Spectroscopy	(5) 2MASS-J22443167+2043433
2M0642				
	13	2M0642 - MIRI	MIRI Low Resolution Spectroscopy	(6) 2MASS-J06420559+4101599
	14	2M0642- NIRSpec	NIRSpec Fixed Slit Spectroscopy	(6) 2MASS-J06420559+4101599

## ABSTRACT

With the launch of JWST, we are entering the era of direct exoplanet characterization studies. Based on the handful of directly-imaged exoplanets studied to date, it is clear that interpretation of these discoveries hinges on a thorough understanding of their atmospheres. There is growing evidence that these clouds are inhomogeneously distributed in latitude, with thicker clouds at the equator relative to the poles. If cloud and atmospheric properties change significantly from equator to pole, then the observed spectral diversity among giant extrasolar atmospheres may be explained by viewing angle. JWST provides a unique opportunity to directly test this. We propose to test the latitudinal dependence of cloud and atmospheric properties in a uniform sample of isolated giant exoplanet analogs. Searching for atmospheric equator-to-pole differences in giant exoplanet analogs is essential for understanding the atmospheres of extrasolar worlds ranging from brown dwarfs to bona fide directly imaged exoplanets.

## OBSERVING DESCRIPTION

We propose for MIRI/LRS and NIRSpec/Prism spectra for 6 targets to test the effect of viewing angle on the cloud and atmospheric properties. Contemporaneous coverage from 1-14  $\mu\text{m}$  is necessary to reveal the detailed atmospheric properties of each of our highly variable targets.

### MIRI/LRS spectra:

We will obtain a MIRI/LRS fixed-slit spectrum for each target. We will use the default P750L disperser and FULL subarray. We will use the FAST readout pattern, which is suitable for our purposes by ensuring no saturation while also providing adequate samples up the ramp. Based on investigations of currently available Spitzer/IRS data], we find that  $\text{SNR} = 75$  at 10  $\mu\text{m}$  enables a robust analysis of the silicate feature. We use the JWST Exposure Time Calculator to determine the exposure time needed to obtain 5-12  $\mu\text{m}$  spectra with  $\text{SNR} > 75$  at 10  $\mu\text{m}$  using a 1200K or 1500K,  $\log(g) = 4.5$ , BT-Settl model re-normalised to each object's magnitude in Spitzer Channel 1. For target acquisition, we use the F1000W filter, the FULL subarray, FAST readout pattern and 4 groups for all targets. We reach  $\text{SNR} > 50$  for all targets in target acquisition. We use the FULL subarray, FAST readout pattern and an AB nod pattern for sky subtraction. We reach the desired SNR for each target with less than 2 minutes of exposure time per target. The ETC reports no problems with data volume. Only one target has a bright source nearby, and we specify orient ranges to

ensure that the bright source does not fall in the MIRI imager during the observation.

NIRSpec/Prism spectra:

We request NIRSpec spectra taken during the same visit as MIRI spectra, critically providing a near-simultaneous spectrum from 0.6-5.3  $\mu\text{m}$  at a resolution of  $R \sim 100$ . This resolution is sufficient for resolving important water, methane and carbon monoxide features, and to assess the bulk atmospheric properties at the time of observation. We use the JWST ETC to determine the exposure times and detector setup appropriate for our targets. We use a 1200K or 1500K,  $\log(g) = 4.5$ , BT-Settl model renormalised to each object's magnitude in J2MASS. We will use the same detector setup for all targets, only changing the exposure times. We will use the WATA acquisition mode with the CLEAR filter, and NRSRAPID readout pattern for target acquisition, ensuring  $\text{SNR} > 30$  for all targets. For our science observations, we use the Prism/CLEAR grating/filter pair, the S200A1 slit and the NRSRAPID readout pattern. We will observe in an AB nod pattern, and increase the Groups per integration to reach  $\text{SNR} > 100$  to ensure that we can adequately constrain the atmospheric properties. Our longest exposure time for our faintest target is  $\sim 30$  s.

# Proposal 3486 - Targets - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	2MASS-J17410280-4642218	RA: 17 41 2.8066 (265.2616942d) Dec: -46 42 21.85 (-46.70607d) Equinox: J2000	Proper Motion RA: -27.6 mas/yr Proper Motion Dec: -347.7000000430053 mas/yr Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=Star Description=[Brown dwarfs] Extended=NO</p>				
(2)	2MASS-J03552337+1133437	RA: 03 55 23.6200 (58.8484167d) Dec: +11 33 33.70 (11.55936d) Equinox: J2000	Proper Motion RA: 223.1819999999996 mas/yr Proper Motion Dec: -631.303000045591 mas/yr Epoch of Position: 2016	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Update: Gaia coordinates with epoch 2016 were substituted instead of 2MASS coordinates from SIMBAD. When proper motion is applied to extrapolate position to 2024.32 both options agree.</p> <p>Category=Star Description=[Brown dwarfs] Extended=NO</p>				
(3)	2MASSW-J2206450-421721	RA: 22 06 45.1900 (331.6882917d) Dec: -42 17 24.10 (-42.29003d) Equinox: J2000	Proper Motion RA: 128.668 mas/yr Proper Motion Dec: -184.88099990463525 mas/yr Epoch of Position: 2016	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Update: The coordinates were updated to Gaia DR3 2016 coordinates. The extrapolated 2024 position due to proper motion did not change.</p> <p>Category=Star Description=[Brown dwarfs] Extended=NO</p>				
(4)	2MASS-J00470038+6803543	RA: 00 47 0.3866 (11.7516108d) Dec: +68 03 54.37 (68.06510d) Equinox: J2000	Proper Motion RA: 380.7 mas/yr Proper Motion Dec: -204.19999996192928 mas/yr Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=Star Description=[Brown dwarfs] Extended=NO</p>				
(5)	2MASS-J22443167+2043433	RA: 22 44 31.6738 (341.1319742d) Dec: +20 43 43.30 (20.72869d) Equinox: J2000	Proper Motion RA: 230.3 mas/yr Proper Motion Dec: -234.800000089308 mas/yr Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=Star Description=[Brown dwarfs] Extended=NO</p>				
(6)	2MASS-J06420559+4101599	RA: 06 42 5.5920 (100.5233000d) Dec: +41 02 0.00 (41.03333d) Equinox: J2000	Proper Motion RA: 12.0 mas/yr Proper Motion Dec: -372.0000000839718 mas/yr Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=Star Description=[Brown dwarfs] Extended=NO</p>				

Fixed Targets

Proposal 3486 - Observation 3 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 3: 2M0355- MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Low Resolution Spectroscopy</p>									
	<p>(2M0355- MIRI (Obs 3)) Warning (Form): Groups/Int cannot be 1, Groups/Int = 2 requires permission and Groups/Int of 3-4 is allowed but not recommended.                  (Visit 3:1) 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>			
	(2)	2MASS-J03552337+1133437	RA: 03 55 23.6200 (58.8484167d) Dec: +11 33 33.70 (11.55936d) Equinox: J2000	Proper Motion RA: 223.18199999999996 mas/yr Proper Motion Dec: -631.303000045591 mas/yr Epoch of Position: 2016						
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Update: Gaia coordinates with epoch 2016 were substituted instead of 2MASS coordinates from SIMBAD. When proper motion is applied to extrapolate position to 2024.32 both options agree.</i></p> <p><i>Category=Star</i>  <i>Description=[Brown dwarfs]</i>  <i>Extended=NO</i></p>										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	2 2MASS-J03552337+1133437	F1500W	FAST	4	1	1	11.1	134217	
<b>Template</b>	<b>Subarray</b>				<b>Obtain Verification Image?</b>					
	FULL				true					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>No. Spectral Steps</b>	<b>Spectral Step Offset</b>	<b>No. Spatial Steps</b>	<b>Spatial Step Offset</b>				
	1	ALONG SLIT NOD								
<b>Pointing Verification</b>	<b>#</b>	<b>PV Readout Pattern</b>	<b>PV Groups/Int</b>	<b>PV Integrations/Exp</b>	<b>PV Total Integrations</b>	<b>PV Exposures/Dith</b>	<b>PV Total Dithers</b>	<b>PV Total Exposure Time</b>	<b>PV ETC Wkbk.Calc ID</b>	<b>Filter</b>
	1	FASTR1	4	1	1	1	1	11.1		F1500W

Proposal 3486 - Observation 3 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	6	1	2	1	2	33.3
Sequence Observations 3, 4, Non-interruptible									

Proposal 3486 - Observation 4 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 4: 2M0355 - NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p>																																							
<b>Diagnostics</b>	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																							
<b>Fixed Targets</b>	<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>(2)</td> <td>2MASS-J03552337+1133437</td> <td>RA: 03 55 23.6200 (58.8484167d) Dec: +11 33 33.70 (11.55936d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: 223.1819999999996 mas/yr Proper Motion Dec: -631.303000045591 mas/yr Epoch of Position: 2016</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Update: Gaia coordinates with epoch 2016 were substituted instead of 2MASS coordinates from SIMBAD. When proper motion is applied to extrapolate position to 2024.32 both options agree.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Brown dwarfs]</i></p> <p><i>Extended=NO</i></p> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(2)	2MASS-J03552337+1133437	RA: 03 55 23.6200 (58.8484167d) Dec: +11 33 33.70 (11.55936d) Equinox: J2000	Proper Motion RA: 223.1819999999996 mas/yr Proper Motion Dec: -631.303000045591 mas/yr Epoch of Position: 2016							<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Update: Gaia coordinates with epoch 2016 were substituted instead of 2MASS coordinates from SIMBAD. When proper motion is applied to extrapolate position to 2024.32 both options agree.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Brown dwarfs]</i></p> <p><i>Extended=NO</i></p>									
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<b>Acquisition</b>	<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>2 2MASS-J03552337+1133437</td> <td>WATA</td> <td>SUB32</td> <td>CLEAR</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>0.08</td> <td>134217</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	2 2MASS-J03552337+1133437	WATA	SUB32	CLEAR	NRSRAPID	3	1	1	0.08	134217								
#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
1	2 2MASS-J03552337+1133437	WATA	SUB32	CLEAR	NRSRAPID	3	1	1	0.08	134217																														
<b>Template</b>	<table border="1"> <thead> <tr> <th>Slit</th> <th>Subarray</th> </tr> </thead> <tbody> <tr> <td>S200A1</td> <td>SUBS200A1</td> </tr> </tbody> </table>										Slit	Subarray	S200A1	SUBS200A1																										
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<b>Dithers</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Positions</th> <th>Sub-Pixel Pattern</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>SPATIAL</td> </tr> </tbody> </table>										#	Primary Dither Positions	Sub-Pixel Pattern	1	2	SPATIAL																								
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<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Slit</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Ex #</th> <th>Autocal</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>S200A1</td> <td>NRSRAPID</td> <td>2</td> <td>1</td> <td>NONE</td> <td>4</td> <td>4</td> <td>18.778</td> <td>134217</td> </tr> </tbody> </table>										#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	PRISM/CLEAR	S200A1	NRSRAPID	2	1	NONE	4	4	18.778	134217								
#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																														
1	PRISM/CLEAR	S200A1	NRSRAPID	2	1	NONE	4	4	18.778	134217																														

Proposal 3486 - Observation 4 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Special Requirements

Sequence Observations 3, 4, Non-interruptible

Proposal 3486 - Observation 5 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<b>Proposal 3486, Observation 5: W1741 - MIRI</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Low Resolution Spectroscopy									
	(W1741 - MIRI (Obs 5)) Warning (Form): Groups/Int cannot be 1, Groups/Int = 2 requires permission and Groups/Int of 3-4 is allowed but not recommended. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(1)	2MASS-J17410280-4642218	RA: 17 41 2.8066 (265.2616942d) Dec: -46 42 21.85 (-46.70607d) Equinox: J2000	Proper Motion RA: -27.6 mas/yr Proper Motion Dec: -347.7000000430053 mas/yr Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Brown dwarfs] Extended=NO										
<b>Acquisition</b>	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	1 2MASS-J17410280-4642218	F560W	FAST	4	1	1	11.1	143102	
<b>Template</b>	Subarray				Obtain Verification Image?					
	FULL				true					
<b>Dithers</b>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset				
	1	ALONG SLIT NOD								
<b>Pointing Verification</b>	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	4	1	1	1	1	11.1		F560W

Proposal 3486 - Observation 5 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	25	1	2	1	2	138.752
	Sequence Observations 5, 6, Non-interruptible								

Proposal 3486 - Observation 6 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 6: W1741 - NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p>										
<b>Diagnostics</b>	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	2MASS-J17410280-4642218	RA: 17 41 2.8066 (265.2616942d) Dec: -46 42 21.85 (-46.70607d) Equinox: J2000			Proper Motion RA: -27.6 mas/yr Proper Motion Dec: -347.7000000430053 mas/yr Epoch of Position: 2000					
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<b>Acquisition</b>	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	1 2MASS-J17410280-4642218	WATA	SUB32	CLEAR	NRSRAPID	3	1	1	0.08	143102
<b>Template</b>	Slit					Subarray					
	S200A1					SUBS200A1					
<b>Dithers</b>	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
<b>Spectral Elements</b>	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex # p	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S200A1	NRSRAPID	5	1	NONE	4	4	37.474	143102

Proposal 3486 - Observation 6 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 3486 - Observation 7 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 7: 2M2206 - MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Low Resolution Spectroscopy</p>																												
	<p>(2M2206 - MIRI (Obs 7)) Warning (Form): Groups/Int cannot be 1, Groups/Int = 2 requires permission and Groups/Int of 3-4 is allowed but not recommended.                  (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																												
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>2MASSW-J2206450-421721</td> <td>RA: 22 06 45.1900 (331.6882917d) Dec: -42 17 24.10 (-42.29003d) Equinox: J2000</td> <td>Proper Motion RA: 128.668 mas/yr Proper Motion Dec: -184.88099990463525 mas/yr Epoch of Position: 2016</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Update: The coordinates were updated to Gaia DR3 2016 coordinates. The extrapolated 2024 position due to proper motion did not change.</i></p> <p>Category=Star Description=[Brown dwarfs] Extended=NO</p>									#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(3)	2MASSW-J2206450-421721	RA: 22 06 45.1900 (331.6882917d) Dec: -42 17 24.10 (-42.29003d) Equinox: J2000	Proper Motion RA: 128.668 mas/yr Proper Motion Dec: -184.88099990463525 mas/yr Epoch of Position: 2016											
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<table border="1"> <thead> <tr> <th>#</th> <th>Target</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>3 2MASSW-J2206450-421721</td> <td>F560W</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>11.1</td> <td>143106</td> </tr> </tbody> </table>									#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	3 2MASSW-J2206450-421721	F560W	FAST	4	1	1	11.1	143106			
#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																					
1	3 2MASSW-J2206450-421721	F560W	FAST	4	1	1	11.1	143106																					
<b>Template</b>	<b>Subarray</b>				<b>Obtain Verification Image?</b>																								
	FULL				true																								
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<b>Pointing Verification</b>	<table border="1"> <thead> <tr> <th>#</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Integrations</th> <th>PV Exposures/Dith</th> <th>PV Total Dithers</th> <th>PV Total Exposure Time</th> <th>PV ETC Wkbk.Calc ID</th> <th>Filter</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FASTR1</td> <td>4</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>11.1</td> <td></td> <td>F560W</td> </tr> </tbody> </table>									#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter	1	FASTR1	4	1	1	1	1	11.1		F560W
	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter																			
1	FASTR1	4	1	1	1	1	11.1		F560W																				

Proposal 3486 - Observation 7 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	45	1	2	1	2	249.754
	Sequence Observations 7, 8, Non-interruptible								

Proposal 3486 - Observation 8 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 8: 2M2206 - NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p>																																																																															
<b>Diagnostics</b>	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																															
<b>Fixed Targets</b>	<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>(3)</td> <td>2MASSW-J2206450-421721</td> <td>RA: 22 06 45.1900 (331.6882917d) Dec: -42 17 24.10 (-42.29003d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: 128.668 mas/yr Proper Motion Dec: -184.88099990463525 mas/yr Epoch of Position: 2016</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> <tr> <td colspan="10"><i>Update: The coordinates were updated to Gaia DR3 2016 coordinates. The extrapolated 2024 position due to proper motion did not change.</i></td> </tr> <tr> <td colspan="10"><i>Category=Star</i></td> </tr> <tr> <td colspan="10"><i>Description=[Brown dwarfs]</i></td> </tr> <tr> <td colspan="10"><i>Extended=NO</i></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(3)	2MASSW-J2206450-421721	RA: 22 06 45.1900 (331.6882917d) Dec: -42 17 24.10 (-42.29003d) Equinox: J2000	Proper Motion RA: 128.668 mas/yr Proper Motion Dec: -184.88099990463525 mas/yr Epoch of Position: 2016							<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										<i>Update: The coordinates were updated to Gaia DR3 2016 coordinates. The extrapolated 2024 position due to proper motion did not change.</i>										<i>Category=Star</i>										<i>Description=[Brown dwarfs]</i>										<i>Extended=NO</i>									
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<b>Acquisition</b>	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																																																					
	1	3 2MASSW-J2206450-421721	WATA	SUB32	CLEAR	NRSRAPIDD6	3	1	1	0.26	143106																																																																					
<b>Template</b>	Slit				Subarray																																																																											
	S200A1				SUBS200A1																																																																											
<b>Dithers</b>	#	Primary Dither Positions					Sub-Pixel Pattern																																																																									
	1	2					SPATIAL																																																																									
<b>Spectral Elements</b>	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																																																				
	1	PRISM/CLEAR	S200A1	NRSRAPID	8	1	1	NONE	4	4	56.17	143106																																																																				

Proposal 3486 - Observation 8 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 3486 - Observation 9 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<b>Proposal 3486, Observation 9: W0047 - MIRI</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Low Resolution Spectroscopy									
	(W0047 - MIRI (Obs 9)) Warning (Form): Groups/Int cannot be 1, Groups/Int = 2 requires permission and Groups/Int of 3-4 is allowed but not recommended. (Visit 9:1) 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)	2MASS-J00470038+6803543	RA: 00 47 0.3866 (11.7516108d) Dec: +68 03 54.37 (68.06510d) Equinox: J2000	Proper Motion RA: 380.7 mas/yr Proper Motion Dec: -204.19999996192928 mas/yr Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Brown dwarfs] Extended=NO										
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	SAME	F560W	FAST	4	1	1	11.1	143107	
<b>Template</b>	<b>Subarray</b>				<b>Obtain Verification Image?</b>					
	FULL				true					
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>No. Spectral Steps</b>	<b>Spectral Step Offset</b>	<b>No. Spatial Steps</b>	<b>Spatial Step Offset</b>				
	1	ALONG SLIT NOD								
<b>Pointing Verification</b>	<b>#</b>	<b>PV Readout Pattern</b>	<b>PV Groups/Int</b>	<b>PV Integrations/Exp</b>	<b>PV Total Integrations</b>	<b>PV Exposures/Dith</b>	<b>PV Total Dithers</b>	<b>PV Total Exposure Time</b>	<b>PV ETC Wkbk.Calc ID</b>	<b>Filter</b>
	1	FASTR1	4	1	1	1	1	11.1		F560W

Proposal 3486 - Observation 9 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	13	1	2	1	2	72.151
	Sequence Observations 9, 10, Non-interruptible								

Proposal 3486 - Observation 10 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 10: W0047 - NIRSpec</b>  <b>Diagnostic Status: Warning</b>                  Observing Template: NIRSpec Fixed Slit Spectroscopy</p>										
<b>Diagnostics</b>	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(4)	2MASS-J00470038+6803543	RA: 00 47 0.3866 (11.7516108d) Dec: +68 03 54.37 (68.06510d) Equinox: J2000			Proper Motion RA: 380.7 mas/yr Proper Motion Dec: -204.19999996192928 mas/yr Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i>                  Category=Star                  Description=[Brown dwarfs]                  Extended=NO</p>										
<b>Acquisition</b>	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB32	CLEAR	NRSRAPIDD6	3	1	1	0.26	143107
<b>Template</b>	Slit					Subarray					
	S200A1					SUBS200A1					
<b>Dithers</b>	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
<b>Spectral Elements</b>	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S200A1	NRSRAPID	4	1	NONE	4	4	31.242	143107

Proposal 3486 - Observation 10 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Special Requirements

Sequence Observations 9, 10, Non-interruptible

# Proposal 3486 - Observation 11 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<b>Proposal 3486, Observation 11: 2M2244 - MIRI</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Low Resolution Spectroscopy									
<b>Diagnostics</b>	(2M2244 - MIRI (Obs 11)) Warning (Form): Groups/Int cannot be 1, Groups/Int = 2 requires permission and Groups/Int of 3-4 is allowed but not recommended. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(5)	2MASS-J22443167+2043433	RA: 22 44 31.6738 (341.1319742d) Dec: +20 43 43.30 (20.72869d) Equinox: J2000	Proper Motion RA: 230.3 mas/yr Proper Motion Dec: -234.800000089308 mas/yr Epoch of Position: 2000						
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Brown dwarfs] Extended=NO									
<b>Acquisition</b>	#	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	143109	
<b>Template</b>	Subarray				Obtain Verification Image?					
	FULL				true					
<b>Dithers</b>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset				
	1	ALONG SLIT NOD								
<b>Pointing Verification</b>	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	4	1	1	1	1	11.1		F1000W

Proposal 3486 - Observation 11 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	25	1	2	1	2	138.752
	Sequence Observations 11, 12, Non-interruptible								

Proposal 3486 - Observation 12 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 12: 2M2244 - NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p>										
<b>Diagnostics</b>	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(5)	2MASS-J22443167+2043433	RA: 22 44 31.6738 (341.1319742d) Dec: +20 43 43.30 (20.72869d) Equinox: J2000			Proper Motion RA: 230.3 mas/yr Proper Motion Dec: -234.800000089308 mas/yr Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Brown dwarfs]</i></p> <p><i>Extended=NO</i></p>										
<b>Acquisition</b>	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB32	CLEAR	NRSRAPIDD6	3	1	1	0.26	143109
<b>Template</b>	Slit					Subarray					
	S200A1					SUBS200A1					
<b>Dithers</b>	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
<b>Spectral Elements</b>	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S200A1	NRSRAPID	8	1	NONE	4	4	56.17	143109

## Proposal 3486 - Observation 12 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Special Requirements

Sequence Observations 11, 12, Non-interruptible

Proposal 3486 - Observation 13 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<b>Proposal 3486, Observation 13: 2M0642 - MIRI</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Low Resolution Spectroscopy									
	(2M0642 - MIRI (Obs 13)) Warning (Form): Groups/Int cannot be 1, Groups/Int = 2 requires permission and Groups/Int of 3-4 is allowed but not recommended. (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(6)	2MASS-J06420559+4101599	RA: 06 42 5.5920 (100.5233000d) Dec: +41 02 0.00 (41.03333d) Equinox: J2000	Proper Motion RA: 12.0 mas/yr Proper Motion Dec: -372.0000000839718 mas/yr Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Brown dwarfs] Extended=NO										
<b>Acquisition</b>	#	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	133587	
<b>Template</b>	Subarray				Obtain Verification Image?					
	FULL				true					
<b>Dithers</b>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset				
	1	ALONG SLIT NOD								
<b>Pointing Verification</b>	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	4	1	1	1	1	11.1		F1000W

Proposal 3486 - Observation 13 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	35	1	2	1	2	194.253
	Sequence Observations 13, 14, Non-interruptible								

Proposal 3486 - Observation 14 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Tue Nov 21 21:00:30 GMT 2023

<b>Observation</b>	<p><b>Proposal 3486, Observation 14: 2M0642- NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p>										
<b>Diagnostics</b>	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(6)	2MASS-J06420559+4101599	RA: 06 42 5.5920 (100.5233000d) Dec: +41 02 0.00 (41.03333d) Equinox: J2000			Proper Motion RA: 12.0 mas/yr Proper Motion Dec: -372.0000000839718 mas/yr Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Brown dwarfs]</i></p> <p><i>Extended=NO</i></p>										
<b>Acquisition</b>	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB32	CLEAR	NRSRAPIDD6	3	1	1	0.26	133587
<b>Template</b>	Slit					Subarray					
	S200A1					SUBS200A1					
<b>Dithers</b>	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
<b>Spectral Elements</b>	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S200A1	NRSRAPID	6	1	NONE	4	4	43.706	133587

Proposal 3486 - Observation 14 - Equator-to-Pole Atmospheric Differences in Giant Exoplanet Analogs

Special Requirements

Sequence Observations 13, 14, Non-interruptible