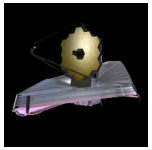

1277 - Coronographic Observations of Young Exoplanets and Spectroscopic Observations of ROSS 458 C

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

Name	*Institution*
Dr. Pierre-Olivier Lagage (PI) (ESA Member)	**Commissariat a l'Energie Atomique (CEA)**
Dr. Charles A. Beichman (CoI) (US Admin CoI)	Jet Propulsion Laboratory
Dr. Anthony Boccaletti (CoI) (ESA Member) (Contact)	Observatoire de Paris - Section de Meudon
Prof. Alistair Glasse (CoI) (ESA Member) (Contact)	UK Astronomy Technology Centre
Dr. Klaus Werner Hodapp (CoI)	University of Hawaii

OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
HD95086 + ref sgd				
	1	HD95086 1065C	MIRI Coronagraphic Imaging	(1) HD-95086
	2	HD95086 1140C	MIRI Coronagraphic Imaging	(1) HD-95086
	3	HD95086 2300C	MIRI Coronagraphic Imaging	(1) HD-95086
	4	HD95086 Bkg 2300C	MIRI Coronagraphic Imaging	(11) HD-95086-BACKGOUND
	5	HD95086 Bkg 1140C	MIRI Coronagraphic Imaging	(11) HD-95086-BACKGOUND
	6	HD95086 Bkg 1065C	MIRI Coronagraphic Imaging	(11) HD-95086-BACKGOUND
	7	REF 1065C	MIRI Coronagraphic Imaging	(2) HD-310459
	8	REF 1140C	MIRI Coronagraphic Imaging	(2) HD-310459
	9	REF 2300C	MIRI Coronagraphic Imaging	(2) HD-310459
	10	REF Bkg 2300C	MIRI Coronagraphic Imaging	(12) HD-310459-BACKGROUND
	11	REF Bkg 1140C	MIRI Coronagraphic Imaging	(12) HD-310459-BACKGROUND
	12	REF Bkg 1065C	MIRI Coronagraphic Imaging	(12) HD-310459-BACKGROUND

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
GJ504				
	13	GJ504 1065C	MIRI Coronagraphic Imaging	(3) GJ-504
	14	GJ504 1140C	MIRI Coronagraphic Imaging	(3) GJ-504
	15	GJ504 1550C	MIRI Coronagraphic Imaging	(3) GJ-504
	16	GJ504 Bkg 1550C	MIRI Coronagraphic Imaging	(10) GJ-504-BACKGROUND
	17	GJ504 Bkg 1140C	MIRI Coronagraphic Imaging	(10) GJ-504-BACKGROUND
	18	GJ504 Bkg 1065C	MIRI Coronagraphic Imaging	(10) GJ-504-BACKGROUND
HD106906				
	19	HD106906 1140C	MIRI Coronagraphic Imaging	(7) HD-106906
	20	HD106906 1550C	MIRI Coronagraphic Imaging	(7) HD-106906
	21	HD106906 Bkg 1500C	MIRI Coronagraphic Imaging	(9) HD-106906-BACKGROUND
	22	HD106906 Bkg 1140C	MIRI Coronagraphic Imaging	(9) HD-106906-BACKGROUND
	23	HD106906 b MIRI	MIRI Low Resolution Spectroscopy	(5) HD-106906B-HODAPP
	24	HD106906-b-Hodapp	NIRSpec IFU Spectroscopy	(5) HD-106906B-HODAPP
Direct imaging Spectro				
	25	Ross 458 C MRS	MIRI Medium Resolution Spectroscopy	(13) ROSS458C-new
	26	Ross 458C NIRSPEC	NIRSpec IFU Spectroscopy	(8) ROSS458C
	27	Ross 458C NIRSPEC	NIRSpec IFU Spectroscopy	(13) ROSS458C-new

ABSTRACT

In order to answer questions such as: What is the origin of the observed exoplanet diversity? How and where did exoplanets form? What are they made of? Do they have an atmosphere? Are the atmospheric composition and temperature indicative of an environment which could host life? and ultimately: Are there any signatures of life in the exoplanet spectra?, we have to go beyond the sole detection and characterization of exoplanets in terms of basic parameters, e.g. radius, mass and orbital dynamics, and get crucial information by characterizing their atmosphere using spectroscopic observations over a broad wavelength range from visible to mid-Infrared.

In this program, we will study the atmosphere of four exoplanets detected by direct imaging; HD 95046 b, GJ 504b, HD106906b and Ross 458C. The disks around HD95046 and HD106906 will also be studied.

OBSERVING DESCRIPTION

We will use coronagraphic MIRI observations for HD 95086b, GJ 504b and the disk of HD106906. For the coronagraphic observations of GJ 504b and HD106906 at 15.50 microns, we will use self reference as the GJ 504b and the disk of HD106906 are in a different portion in the coronagraph. HD106906b will be observed with MIRI LRS and with NIRSPEC.

We will also perform MIRI MRS observations of Ross 458C, completed by NIRSPEC observations at shorter wavelengths.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HD-95086	RA: 10 57 3.0200 (164.2625833d) Dec: -68 40 2.40 (-68.66733d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=Star* *Description=[Exoplanets]*				
(2)	HD-310459	RA: 11 14 9.6246 (168.5401025d) Dec: -68 34 11.57 (-68.56988d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=Star* *Description=[K stars]*				
(3)	GJ-504	RA: 13 16 46.5200 (199.1938333d) Dec: +09 25 27.00 (9.42417d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=Star* *Description=[Exoplanets]*				
(5)	HD-106906B-HODAPP	RA: 12 17 52.5180 (184.4688250d) Dec: -55 58 27.58 (-55.97433d) Equinox: J2000	Proper Motion RA: -38.79 mas/yr Proper Motion Dec: -12.21 mas/yr Parallax: 0.01" Epoch of Position: 2000	
Comments: This host star coordinates are from Simbad: 21 17 52.1923, -55 58 31.89 *with 7.11 arcsec separation at PA 307.3 from Bailey et al. 2013, the coordinates* *of component "b' are 12 17 52.518 -55 58 27.58 (J2000).* *These are the coordinates used in the target list.* *Category=Star* *Description=[Exoplanets]* *Extended=NO*				
(7)	HD-106906	RA: 12 17 53.1923 (184.4716346d) Dec: -55 58 31.89 (-55.97553d) Equinox: J2000	Proper Motion RA: -39.066 mas/yr Proper Motion Dec: -12.698 mas/yr Parallax: 0.0097673" Epoch of Position: 2000	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=Star* *Description=[A stars]*				
(8)	ROSS458C	RA: 13 00 41.9360 (195.1747333d) Dec: +12 21 14.72 (12.35409d) Equinox: J2000	Proper Motion RA: -639 mas/yr Proper Motion Dec: -24 mas/yr Parallax: 0.085" Epoch of Position: 2000	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Very large proper motion in RA. *Category=Star* *Description=[Brown dwarfs, Exoplanets]* *Extended=NO*				

(9)	HD-106906-BACKGROUND	RA: 12 17 46.8000 (184.4450000d) Dec: -55 57 4.90 (-55.95136d) Equinox: J2000	Proper Motion RA: -39.066 mas/yr Proper Motion Dec: -12.698 mas/yr Parallax: 0.0097673" Epoch of Position: 2000
Comments: Background observation for coronagraphic observation of HD 106906. *Bkg coord from Jonathan.* *Category=Calibration* *Description=[Telescope/sky background]*			
(10)	GJ-504-BACKGROUND	RA: 13 17 8.7600 (199.2865000d) Dec: +09 34 12.60 (9.57017d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000
Comments: Background observation for coronagraphic observation of GJ 504. *Bkg coord from Jonathan.* *Category=Calibration* *Description=[Telescope/sky background]*			
(11)	HD-95086-BACKGOUND	RA: 10 57 6.7600 (164.2781667d) Dec: -68 43 20.80 (-68.72244d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000
Comments: Background observation for coronagraphic observation of HD 95086. *Bkg coord from Jonathan.* *Category=Calibration* *Description=[Telescope/sky background]*			
(12)	HD-310459-BACKGROUND	RA: 11 15 38.2600 (168.9094167d) Dec: -68 36 0.20 (-68.60006d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000
Comments: Background observation for coronagraphic observation of HD 310459. *Bkg coord from Jonathan.* *Category=Calibration* *Description=[Telescope/sky background]*			
(13)	ROSS458C-new	RA: 13 00 41.7427 (195.1739279d) Dec: +12 21 14.72 (12.35409d) Equinox: J2000	Proper Motion RA: -628.7153 mas/yr Proper Motion Dec: -33.4718 mas/yr Parallax: 0.085" Epoch of Position: 2007.9917
Comments: Very large proper motion in RA. *Target was updated on May 8.* *New information from PI. Correction made by PC [Soto].* *Category=Star* *Description=[Brown dwarfs, Exoplanets]* *Extended=NO*			

Observation

Proposal 1277, Observation 1: HD95086 1065C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[HD95086 1140C (Obs 2), HD95086 2300C (Obs 3), HD95086 Bkg 2300C (Obs 4), HD95086 Bkg 1140C (Obs 5), HD95086 Bkg 1065C (Obs 6)]

Diagnostics

(HD95086 1065C (Obs 1)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

(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)	HD-95086	RA: 10 57 3.0200 (164.2625833d) Dec: -68 40 2.40 (-68.66733d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[Exoplanets]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12728

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1065C	MASK1065	4QPM	F1065C	FASTR1	500	16	1	1	16	1921.035	12728

PSF References	REF 1065C (Obs 7) (PSF Reference; Filters [F1065C]) Additional Justification: false
Special Requirements	Aperture PA Range 88 to 112 Degrees (V3 83.16455103 to 107.16455103) Aperture PA Range 358 to 22 Degrees (V3 353.16455103 to 17.16455103) No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 2: HD95086 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[HD95086 1065C (Obs 1), HD95086 2300C (Obs 3), HD95086 Bkg 2300C (Obs 4), HD95086 Bkg 1140C (Obs 5), HD95086 Bkg 1065C (Obs 6)]

Diagnostics

(HD95086 1140C (Obs 2)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HD-95086	RA: 10 57 3.0200 (164.2625833d) Dec: -68 40 2.40 (-68.66733d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[Exoplanets]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12728

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	500	16	1	1	16	1921.035	12728

PSF References	REF 1140C (Obs 8) (PSF Reference; Filters [F1140C]) Additional Justification: false
Special Requirements	Aperture PA Range 88 to 112 Degrees (V3 83.16455103 to 107.16455103) Aperture PA Range 358 to 22 Degrees (V3 353.16455103 to 17.16455103) No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 3: HD95086 2300C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[HD95086 1065C (Obs 1), HD95086 1140C (Obs 2), HD95086 Bkg 2300C (Obs 4), HD95086 Bkg 1140C (Obs 5), HD95086 Bkg 1065C (Obs 6)]

Comments: No PA range as looking for a disk

Diagnostics

(HD95086 2300C (Obs 3)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

(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)	HD-95086	RA: 10 57 3.0200 (164.2625833d) Dec: -68 40 2.40 (-68.66733d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[Exoplanets]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	14.256	12728

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	30	200	1	1	200	2008.476	12728

PSF References	REF 2300C (Obs 9) (PSF Reference; Filters [F2300C]) Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 4: HD95086 Bkg 2300C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [HD95086 1065C (Obs 1), HD95086 1140C (Obs 2), HD95086 2300C (Obs 3)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(11)	HD-95086-BACKGOUND	RA: 10 57 6.7600 (164.2781667d) Dec: -68 43 20.80 (-68.72244d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 95086.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	30	100	1	2	200	2008.152	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 5: HD95086 Bkg 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [HD95086 1065C (Obs 1), HD95086 1140C (Obs 2), HD95086 2300C (Obs 3)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(11)	HD-95086-BACKGOUND	RA: 10 57 6.7600 (164.2781667d) Dec: -68 43 20.80 (-68.72244d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 95086.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	500	8	1	2	16	1920.796	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 6: HD95086 Bkg 1065C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [HD95086 1065C (Obs 1), HD95086 1140C (Obs 2), HD95086 2300C (Obs 3)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(11)	HD-95086-BACKGOUND	RA: 10 57 6.7600 (164.2781667d) Dec: -68 43 20.80 (-68.72244d) Equinox: J2000	Proper Motion RA: -41.128 mas/yr Proper Motion Dec: 12.861 mas/yr Parallax: 0.0115659" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 95086.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1065C	MASK1065	4QPM	F1065C	FASTR1	500	8	1	2	16	1920.796	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 7: REF 1065C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[REF 1140C (Obs 8), REF 2300C (Obs 9), REF Bkg 2300C (Obs 10), REF Bkg 1140C (Obs 11), REF Bkg 1065C (Obs 12)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	HD-310459	RA: 11 14 9.6246 (168.5401025d) Dec: -68 34 11.57 (-68.56988d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[K stars]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12728

Template

Repeat observation
NO

Dithers

#	Dither Type
1	9-POINT-SMALL-GRID

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1065C	MASK1065	4QPM	F1065C	FASTR1	150	9	1	9	81	2929.369	12728

PSF References	PSF Reference: true
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 8: REF 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[REF 1065C (Obs 7), REF 2300C (Obs 9), REF Bkg 2300C (Obs 10), REF Bkg 1140C (Obs 11), REF Bkg 1065C (Obs 12)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	HD-310459	RA: 11 14 9.6246 (168.5401025d) Dec: -68 34 11.57 (-68.56988d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[K stars]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12728

Template

Repeat observation
NO

Dithers

#	Dither Type
1	9-POINT-SMALL-GRID

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	150	9	1	9	81	2929.369	12728

PSF References	PSF Reference: true
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 9: REF 2300C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[REF 1065C (Obs 7), REF 1140C (Obs 8), REF Bkg 2300C (Obs 10), REF Bkg 1140C (Obs 11), REF Bkg 1065C (Obs 12)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	HD-310459	RA: 11 14 9.6246 (168.5401025d) Dec: -68 34 11.57 (-68.56988d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[K stars]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	14.256	12728

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	30	200	1	1	200	2008.476	12728

PSF References	PSF Reference: true
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 10: REF Bkg 2300C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [REF 1065C (Obs 7), REF 1140C (Obs 8), REF 2300C (Obs 9)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(12)	HD-310459-BACKGROUND	RA: 11 15 38.2600 (168.9094167d) Dec: -68 36 0.20 (-68.60006d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 310459.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	LYOT/F2300C	MASKLYOT	LYOT	F2300C	FASTR1	30	100	1	2	200	2008.152	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 11: REF Bkg 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [REF 1065C (Obs 7), REF 1140C (Obs 8), REF 2300C (Obs 9)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(12)	HD-310459-BACKGROUND	RA: 11 15 38.2600 (168.9094167d) Dec: -68 36 0.20 (-68.60006d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 310459.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	150	9	1	2	18	650.971	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 12: REF Bkg 1065C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [REF 1065C (Obs 7), REF 1140C (Obs 8), REF 2300C (Obs 9)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(12)	HD-310459-BACKGROUND	RA: 11 15 38.2600 (168.9094167d) Dec: -68 36 0.20 (-68.60006d) Equinox: J2000	Proper Motion RA: -10.5 mas/yr Proper Motion Dec: 0.19 mas/yr Parallax: 0.0009151" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 310459.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1065C	MASK1065	4QPM	F1065C	FASTR1	150	9	1	2	18	650.971	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, Non-interruptible

Observation

Proposal 1277, Observation 13: GJ504 1065C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[GJ504 1140C (Obs 14), GJ504 1550C (Obs 15), GJ504 Bkg 1550C (Obs 16), GJ504 Bkg 1140C (Obs 17), GJ504 Bkg 1065C (Obs 18)]

Diagnostics

(GJ504 1065C (Obs 13)) Warning (Form): PSF Reference observations should be SEQ NON-INT.

(GJ504 1065C (Obs 13)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	GJ-504	RA: 13 16 46.5200 (199.1938333d) Dec: +09 25 27.00 (9.42417d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[Exoplanets]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12729

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1065C	MASK1065	4QPM	F1065C	FASTR1	500	6	1	1	6	720.238	12729

PSF References	REF 1065C (Obs 7) (PSF Reference; Filters [F1065C]) Additional Justification: false
Special Requirements	Aperture PA Range 112 to 131 Degrees (V3 107.16455103 to 126.16455103) Aperture PA Range 274 to 303 Degrees (V3 269.16455103 to 298.16455103) No Parallel Attachments Sequence Observations 13, 14, 15, 16, 17, 18, Non-interruptible

Observation

Proposal 1277, Observation 14: GJ504 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[GJ504 1065C (Obs 13), GJ504 1550C (Obs 15), GJ504 Bkg 1550C (Obs 16), GJ504 Bkg 1140C (Obs 17), GJ504 Bkg 1065C (Obs 18)]

Diagnostics

(GJ504 1140C (Obs 14)) Warning (Form): PSF Reference observations should be SEQ NON-INT.

(GJ504 1140C (Obs 14)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	GJ-504	RA: 13 16 46.5200 (199.1938333d) Dec: +09 25 27.00 (9.42417d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[Exoplanets]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12729

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	500	3	1	1	3	359.999	12729

PSF References	REF 1140C (Obs 8) (PSF Reference; Filters [F1140C]) Additional Justification: false
Special Requirements	Aperture PA Range 112 to 131 Degrees (V3 107.16455103 to 126.16455103) Aperture PA Range 274 to 303 Degrees (V3 269.16455103 to 298.16455103) No Parallel Attachments Sequence Observations 13, 14, 15, 16, 17, 18, Non-interruptible

Observation

Proposal 1277, Observation 15: GJ504 1550C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[GJ504 1065C (Obs 13), GJ504 1140C (Obs 14), GJ504 Bkg 1550C (Obs 16), GJ504 Bkg 1140C (Obs 17), GJ504 Bkg 1065C (Obs 18)]

Diagnostics

(GJ504 1550C (Obs 15)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.

(GJ504 1550C (Obs 15)) Warning (Form): PSF Reference observations should be SEQ NON-INT.

(GJ504 1550C (Obs 15)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	GJ-504	RA: 13 16 46.5200 (199.1938333d) Dec: +09 25 27.00 (9.42417d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[Exoplanets]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12729

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	500	3	1	1	3	359.999	12729

PSF References	HD106906 1550C (Obs 20) (Filters [F1550C]) Additional Justification: true
Special Requirements	Aperture PA Range 112 to 131 Degrees (V3 107.16455103 to 126.16455103) Aperture PA Range 274 to 303 Degrees (V3 269.16455103 to 298.16455103) No Parallel Attachments Sequence Observations 13, 14, 15, 16, 17, 18, Non-interruptible

Observation

Proposal 1277, Observation 16: GJ504 Bkg 1550C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [GJ504 1065C (Obs 13), GJ504 1140C (Obs 14), GJ504 1550C (Obs 15)]

Diagnostics

(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(10)	GJ-504-BACKGROUND	RA: 13 17 8.7600 (199.2865000d) Dec: +09 34 12.60 (9.57017d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of GJ 504.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	500	2	1	2	4	479.839	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 13, 14, 15, 16, 17, 18, Non-interruptible

Observation

Proposal 1277, Observation 17: GJ504 Bkg 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [GJ504 1065C (Obs 13), GJ504 1140C (Obs 14), GJ504 1550C (Obs 15)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(10)	GJ-504-BACKGROUND	RA: 13 17 8.7600 (199.2865000d) Dec: +09 34 12.60 (9.57017d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of GJ 504.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	500	2	1	2	4	479.839	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 13, 14, 15, 16, 17, 18, Non-interruptible

Observation

Proposal 1277, Observation 18: GJ504 Bkg 1065C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [GJ504 1065C (Obs 13), GJ504 1140C (Obs 14), GJ504 1550C (Obs 15)]

Diagnostics

(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(10)	GJ-504-BACKGROUND	RA: 13 17 8.7600 (199.2865000d) Dec: +09 34 12.60 (9.57017d) Equinox: J2000	Proper Motion RA: -335.473 mas/yr Proper Motion Dec: 191.038 mas/yr Parallax: 0.0568577" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of GJ 504.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1065C	MASK1065	4QPM	F1065C	FASTR1	500	3	1	2	6	719.999	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 13, 14, 15, 16, 17, 18, Non-interruptible

Observation

Proposal 1277, Observation 19: HD106906 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[HD106906 1550C (Obs 20), HD106906 Bkg 1500C (Obs 21), HD106906 Bkg 1140C (Obs 22)]

Diagnostics

(HD106906 1140C (Obs 19)) Warning (Form): PSF Reference observations should be SEQ NON-INT.

(HD106906 1140C (Obs 19)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(7)	HD-106906	RA: 12 17 53.1923 (184.4716346d) Dec: -55 58 31.89 (-55.97553d) Equinox: J2000	Proper Motion RA: -39.066 mas/yr Proper Motion Dec: -12.698 mas/yr Parallax: 0.0097673" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[A stars]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12730

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	500	3	1	1	3	359.999	12730

PSF References	REF 1140C (Obs 8) (PSF Reference; Filters [F1140C]) Additional Justification: false
Special Requirements	Aperture PA Range 48 to 79 Degrees (V3 43.16455103 to 74.16455103) Aperture PA Range 317 to 349 Degrees (V3 312.16455103 to 344.16455103) No Parallel Attachments Sequence Observations 19, 20, 21, 22, Non-interruptible

Observation

Proposal 1277, Observation 20: HD106906 1550C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observations:[HD106906 1140C (Obs 19), HD106906 Bkg 1500C (Obs 21), HD106906 Bkg 1140C (Obs 22)]

Diagnostics

(HD106906 1550C (Obs 20)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.

(HD106906 1550C (Obs 20)) Warning (Form): PSF Reference observations should be SEQ NON-INT.

(HD106906 1550C (Obs 20)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees

(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(7)	HD-106906	RA: 12 17 53.1923 (184.4716346d) Dec: -55 58 31.89 (-55.97553d) Equinox: J2000	Proper Motion RA: -39.066 mas/yr Proper Motion Dec: -12.698 mas/yr Parallax: 0.0097673" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Star
Description=[A stars]

Acquisition

#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SAME	FND	1	FAST	44	1	1	10.546	12730

Template

Repeat observation
NO

Dithers

#	Dither Type
1	NONE

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	500	15	1	1	15	1800.956	12730

PSF References	GJ504 1550C (Obs 15) (Filters [F1550C]) Additional Justification: true
Special Requirements	Aperture PA Range 48 to 79 Degrees (V3 43.16455103 to 74.16455103) Aperture PA Range 317 to 349 Degrees (V3 312.16455103 to 344.16455103) No Parallel Attachments Sequence Observations 19, 20, 21, 22, Non-interruptible

Observation

Proposal 1277, Observation 21: HD106906 Bkg 1500C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [HD106906 1140C (Obs 19), HD106906 1550C (Obs 20)]

Diagnostics

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

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(9)	HD-106906-BACKGROUND	RA: 12 17 46.8000 (184.4450000d) Dec: -55 57 4.90 (-55.95136d) Equinox: J2000	Proper Motion RA: -39.066 mas/yr Proper Motion Dec: -12.698 mas/yr Parallax: 0.0097673" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 106906.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1550C	MASK1550	4QPM	F1550C	FASTR1	500	8	1	2	16	1920.796	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 19, 20, 21, 22, Non-interruptible

Observation

Proposal 1277, Observation 22: HD106906 Bkg 1140C Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Coronagraphic Imaging

Background Observation For: [HD106906 1140C (Obs 19), HD106906 1550C (Obs 20)]

Diagnostics

(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(9)	HD-106906-BACKGROUND	RA: 12 17 46.8000 (184.4450000d) Dec: -55 57 4.90 (-55.95136d) Equinox: J2000	Proper Motion RA: -39.066 mas/yr Proper Motion Dec: -12.698 mas/yr Parallax: 0.0097673" Epoch of Position: 2000	

Comments: Background observation for coronagraphic observation of HD 106906.

Bkg coord from Jonathan.
Category=Calibration
Description=[Telescope/sky background]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Repeat observation	Background Quadrant
	YES	1

Dithers

#	Dither Type
1	BACKGROUND

Spectral Elements

#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	500	2	1	2	4	479.839	

PSF References	Additional Justification: false
Special Requirements	No Parallel Attachments Sequence Observations 19, 20, 21, 22, Non-interruptible

Observation

Proposal 1277, Observation 23: HD106906 b MIRI Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Low Resolution Spectroscopy

Diagnostics

(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(5)	HD-106906B-HODAPP	RA: 12 17 52.5180 (184.4688250d) Dec: -55 58 27.58 (-55.97433d) Equinox: J2000	Proper Motion RA: -38.79 mas/yr Proper Motion Dec: -12.21 mas/yr Parallax: 0.01" Epoch of Position: 2000	

Comments: This host star coordinates are from Simbad: 21 17 52.1923, -55 58 31.89 with 7.11 arcsec separation at PA 307.3 from Bailey et al. 2013, the coordinates of component "b' are 12 17 52.518 -55 58 27.58 (J2000). These are the coordinates used in the target list.
Category=Star
Description=[Exoplanets]
Extended=NO

Acquisition

#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	5 HD-106906B-HODAPP	F1000W	FASTGRPAVG	10	1	1	111.002	12948.1

Template

Subarray	Obtain Verification Image?
FULL	true

Dithers

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

Pointing Verification

#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
1	FASTR1	10	1	1	1	1	27.75		F1000W

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	FASTR1	80	4	8	1	2	1792.676	12948.2

Special Requirements

Sequence Observations 23, 24, Non-interruptible

Observation

Proposal 1277, Observation 24: HD106906-b-Hodapp

Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(5)	HD-106906B-HODAPP	RA: 12 17 52.5180 (184.4688250d) Dec: -55 58 27.58 (-55.97433d) Equinox: J2000	Proper Motion RA: -38.79 mas/yr Proper Motion Dec: -12.21 mas/yr Parallax: 0.01" Epoch of Position: 2000	

Comments: This host star coordinates are from Simbad: 21 17 52.1923, -55 58 31.89 with 7.11 arcsec separation at PA 307.3 from Bailey et al. 2013, the coordinates of component "b' are 12 17 52.518 -55 58 27.58 (J2000). These are the coordinates used in the target list.
Category=Star
Description=[Exoplanets]
Extended=NO

Template

TA Method
VERIFY_ONLY

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	9	

Pointing Verification

#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time
1	ALLOPEN	F110W	NRSRAPID	2	1	1	1	32.21

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	G395M/F290LP	NRSRAPID	8	1	true	false	NONE	1	1	96.631	
2	G395M/F290LP	NRSRAPID	8	1	false	true	NONE	9	9	869.678	

Special Requirements	Sequence Observations 23, 24, Non-interruptible

Observation

Proposal 1277, Observation 25: Ross 458 C MRS

Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Diagnostics

(Ross 458 C MRS (Obs 25)) Warning (Form): Imager Filter overlap.

(Ross 458 C MRS (Obs 25)) Warning (Form): Imager Filter overlap.

(Ross 458 C MRS (Obs 25)) Warning (Form): Imager Filter overlap.

(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(13)	ROSS458C-new	RA: 13 00 41.7427 (195.1739279d) Dec: +12 21 14.72 (12.35409d) Equinox: J2000	Proper Motion RA: -628.7153 mas/yr Proper Motion Dec: -33.4718 mas/yr Parallax: 0.085" Epoch of Position: 2007.9917	

Comments: Very large proper motion in RA.
Target was updated on May 8.
New information from PI. Correction made by PC [Soto].
Category=Star
Description=[Brown 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	FASTGRPAVG	6	1	1	66.601	12883.14

Template

Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
ALL	YES	FULL	NEUTRAL

Dithers

#	Dither Type	Optimized For	Direction
1	2-Point	EXTENDED SOURCE	NEGATIVE

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		IMAGER	F1280W	FASTR1	11	16	1	Dither 1	2	32	1060.065	
1	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	2	2	1110.016	12883.11
1	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	2	2	1110.016	12883.9
2		IMAGER	F1280W	FASTR1	11	16	1	Dither 1	2	32	1060.065	
2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	2	2	1110.016	12883.7
2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	2	2	1110.016	12883.5
3		IMAGER	F1280W	FASTR1	11	16	1	Dither 1	2	32	1060.065	
3	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	2	2	1110.016	12883.3
3	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	2	2	1110.016	12883.1

Observation

Proposal 1277, Observation 26: Ross 458C NIRSPEC Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(8)	ROSS458C	RA: 13 00 41.9360 (195.1747333d)	Proper Motion RA: -639 mas/yr	
		Dec: +12 21 14.72 (12.35409d)	Proper Motion Dec: -24 mas/yr	
		Equinox: J2000	Parallax: 0.085"	
			Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Very large proper motion in RA.
Category=Star
Description=[Brown dwarfs, Exoplanets]
Extended=NO

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	2-POINT-NOD				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	PRISM/CLEAR	NRSIRS2RAPID	10	2	false	true	NONE	2	4	641.911	12883.16
2	G395H/F290LP	NRSIRS2RAPID	40	1	false	true	NONE	2	2	1196.289	12883.17

Observation

Proposal 1277, Observation 27: Ross 458C NIRSPEC

Fri May 26 18:00:58 GMT 2023

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(13)	ROSS458C-new	RA: 13 00 41.7427 (195.1739279d) Dec: +12 21 14.72 (12.35409d) Equinox: J2000	Proper Motion RA: -628.7153 mas/yr Proper Motion Dec: -33.4718 mas/yr Parallax: 0.085" Epoch of Position: 2007.9917	

Comments: Very large proper motion in RA.
Target was updated on May 8.
New information from PI. Correction made by PC [Soto].
Category=Star
Description=[Brown dwarfs, Exoplanets]
Extended=NO

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	2-POINT-NOD				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	PRISM/CLEAR	NRSIRS2RAPID	10	2	false	true	NONE	2	4	641.911	12883.16
2	G395H/F290LP	NRSIRS2RAPID	40	1	false	true	NONE	2	2	1196.289	12883.17