



4668 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Cycle: 3, Proposal Category: GO

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Gliese584C Observations				

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<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	79	Gliese584C NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(34) Gliese584C
	80	Gliese584C NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(34) Gliese584C
	81	Gliese584C MIRI	MIRI Low Resolution Spectroscopy	(34) Gliese584C
J1126-5003 Observations				
	95	J1126-5003 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(26) J1126-5003
J1416+1348A Observations				
	6	J1416+1348A NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(2) J1416+1348A
	5	J1416+1348A MIRI	MIRI Low Resolution Spectroscopy	(2) J1416+1348A
J1256-6202 Observations				
	1	J1256-6202 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(1) J1256-6202
	3	J1256-6202 MIRI LRS	MIRI Low Resolution Spectroscopy	(1) J1256-6202
J1412+1216 Observations				
	8	J1412+1216 MIRI LRS	MIRI Low Resolution Spectroscopy	(4) J1412+1216
	7	J1412+1216 NIRSPEC Prism (updated)	NIRSpec Fixed Slit Spectroscopy	(4) J1412+1216
J0645-6646 Observations				
	10	J0645-6646 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(5) J0645-6646
	9	J0645-6646 NIRSPEC Prism (updated)	NIRSpec Fixed Slit Spectroscopy	(5) J0645-6646
J1444-2019 Observations				
	13	J1444-2019 MIRI	MIRI Low Resolution Spectroscopy	(6) J1444-2019
J0616-6407 Observations				
	16	J0616-6407 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(8) J0616-6407
	17	J0616-6407 MIRI LRS	MIRI Low Resolution Spectroscopy	(8) J0616-6407
J0532+8246 Observations				
	18	J0532+8246 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(9) J0532+8246

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	19	J0532+8246 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(9) J0532+8246
	20	J0532+8246 MIRI	MIRI Low Resolution Spectroscopy	(9) J0532+8246
	114	J0532+8246 MIRI	MIRI Low Resolution Spectroscopy	(9) J0532+8246
J0104+1535 Observations				
	96	J0104+1535 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(27) J0104+1535
	97	J0104+1535 MIRI LRS	MIRI Low Resolution Spectroscopy	(27) J0104+1535
J1256-0224 Observations				
	23	J1256-0224 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(11) J1256-0224
	24	J1256-0224 MIRI LRS	MIRI Low Resolution Spectroscopy	(11) J1256-0224
J1626+3925 Observations				
	25	J1626+3925 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(13) J1626+3925
	26	J1626+3925 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(13) J1626+3925
	27	J1626+3925 MIRI	MIRI Low Resolution Spectroscopy	(13) J1626+3925
HNPegB Observations				
	83	HNPegB NIRSPEC G3 95H	NIRSpec Fixed Slit Spectroscopy	(35) HNPegB
HIP70849B Observations				
	84	HIP70849B NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(36) HIP70849B
	85	HIP70849B NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(36) HIP70849B
Gliese570D Observations				
	89	Gliese570D MIRI	MIRI Low Resolution Spectroscopy	(37) GJ570D
	87	Gliese570D NIRSPEC prism (updated)	NIRSpec Fixed Slit Spectroscopy	(37) GJ570D
J2030+0749 Observations				
	98	J2030+0749 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(31) J2030+0749
	29	J2030+0749 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(31) J2030+0749

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	30	J2030+0749 MIRI	MIRI Low Resolution Spectroscopy	(31) J2030+0749
J0937+2931 Observations				
	99	J0937+2931 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(32) J0937+2931
	115	J0937+2931 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(32) J0937+2931
	75	J0937+2931 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(32) J0937+2931
	116	J0937+2931 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(32) J0937+2931
J1416+1348B Observations				
	42	J1416+1348B NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(19) J1416+1348B
	43	J1416+1348B NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(19) J1416+1348B
	44	J1416+1348B MIRI	MIRI Low Resolution Spectroscopy	(19) J1416+1348B
J0448-1935 Observations				
	102	J0448-1935 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(41) J0448-1935
	103	J0448-1935 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(41) J0448-1935
	104	J0448-1935 MIRI	MIRI Low Resolution Spectroscopy	(41) J0448-1935
J1316+0755 Observations				
	108	J1316+0755 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(39) J1316+0755
	109	J1316+0755 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(39) J1316+0755
	110	J1316+0755 MIRI	MIRI Low Resolution Spectroscopy	(39) J1316+0755
J0836-1859 Observations				
	105	J0836-1859 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(40) J0836-1859
	106	J0836-1859 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(40) J0836-1859
	107	J0836-1859 MIRI	MIRI Low Resolution Spectroscopy	(40) J0836-1859
J0414-5854 Observations				

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<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	71	J0414-5854 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(14) J0414-5854
	72	J0414-5854 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(43) J0414-5854-UPDATED
	73	J0414-5854 MIRI	MIRI Low Resolution Spectroscopy	(14) J0414-5854
J1553+6933 Observations				
	31	J1553+6933 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(15) J1553+6933
	32	J1553+6933 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(15) J1553+6933
	33	J1553+6933 MIRI	MIRI Low Resolution Spectroscopy	(15) J1553+6933
J1810-1010 Observations				
	34	J1810-1010 NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(16) J1810-1010
	35	J1810-1010 NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(16) J1810-1010
	36	J1810-1010 MIRI	MIRI Low Resolution Spectroscopy	(16) J1810-1010
J0452-3608B Observations				
	37	J0452-3608B NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(17) J0452-3608B
	38	J0452-3608B MIRI LRS	MIRI Low Resolution Spectroscopy	(17) J0452-3608B
HIP38939B Observations				
	101	HIP38939B NIRSPEC G395H	NIRSpec Fixed Slit Spectroscopy	(38) HIP38939B
GJ576B Observations				
	39	GJ576B NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(18) GJ576B
	40	GJ576B NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(18) GJ576B
	41	GJ576B MIRI	MIRI Low Resolution Spectroscopy	(18) GJ576B
HIP 70319B Observations				
	111	HIP 70319B NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(42) HIP70319B
	112	HIP 70319B NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(42) HIP70319B

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	113	HIP 70319B MIRI	MIRI Low Resolution Spectroscopy	(42) HIP70319B
Wolf1130B Observations				
	51	Wolf1130B NIRSPEC Prism	NIRSpec Fixed Slit Spectroscopy	(22) Wolf1130B
	52	Wolf1130B NIRSPEC 395H	NIRSpec Fixed Slit Spectroscopy	(22) Wolf1130B
	53	Wolf1130B MIRI	MIRI Low Resolution Spectroscopy	(22) Wolf1130B

ABSTRACT

Metallicity is an essential parameter in the formation, evolution, and atmospheres of the lowest-mass stars and brown dwarfs, also known as ultracool dwarfs (UCDs). The vast majority of known UCDs are solar-metallicity thin disk objects in the Solar Neighborhood, but the exceptional infrared sensitivity of JWST is now reaching distant UCDs in the Milky Way's metal-poor thick disk, halo, and globular cluster populations. These ancient systems provide new opportunities to study the early star formation and chemical evolution history of the Milky Way, and improve our understanding of planet-like atmospheres with non-solar abundances. However, our ability to study and infer the physical properties of metal-poor UCDs is hindered by the lack of empirical data and validated atmosphere models. We propose a 0.6-14 micron spectroscopic survey of 32 L and T dwarfs and subdwarfs, including 11 wide companions to FGK stars, to investigate metallicity's influence on atmosphere chemistry, condensation, and disequilibrium mixing. Our study includes the development of new atmosphere and evolutionary models, and retrieval modeling applied to absolute flux-calibrated spectra sampling a broad range of molecular and continuum features. In addition to advancing our theoretical understanding of low-temperature atmospheres, our spectral survey will provide the necessary empirical guidance for ongoing deep JWST surveys and future Euclid, LSST, and Nancy Grace Roman Space Telescope studies of metal-poor UCDs in multiple Milky Way populations.

OBSERVING DESCRIPTION

We will target a sample of 32 L and T dwarfs across multiple metallicity classes for spectroscopic observations with NIRSpec and MIRI. The majority of our sample will be observed with NIRSpec/Prism/Clear with the S200A1 fixed slit and two dither positions along the slit; and MIRI/LRS with full subarray and two nodding positions along the slit. For our latest-type sources, we will also acquire NIRSpec/G395H/F290LP observations with the S200A1 and S200A2 slits to cover the 3-5 micron spectral peak. Acquisition will be done with the F110W filter for NIRSpec and the F1000W filter for MIRI, with appropriate subarraying to avoid saturation for our brightest sources.

Targets:

Name SpT J W2

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HD 89744B L0.5 14.82 12.94
G 200-28B L4.5 16.95 14.39
Gliese 584C L8 16.06 13.03
J0828-1309 d/sdL2 12.80 10.68
J1126-5003 d/sdL5 14.00 11.94
J1416+1348A d/sdL7 12.99 11.03
J1256-6202 sdL3 16.10 13.43
J1412+1216 sdL5 16.33 14.49
J0645-6646 sdL8 15.54 13.31
J1444-2019 esdL1 12.45 11.21
J0616-6407 esdL6 16.34 15.18
J0532+8246 esdL7 15.08 13.26
J0104+1535 usdL1.5 17.91 16.36
J1256-0224 usdL3.5 16.08 14.91
J1626+3925 usdL4 14.37 13.14
HN Peg B T2.5 15.86 12.60
HIP 70849B T4.5 15.89 13.80
Gliese 570D T8 15.32 12.13
J2030+0749 d/sdT1 14.23 12.13
J0937+2931 d/sdT6 14.64 11.67
J1416+1348B d/sdT7.5 17.26 12.78
J0448-1935 sdT5 16.99 14.24
J1316+0755 sdT6.5 19.29 15.50
J0836-1859 sdT8 19.07 15.02
J0414-5854 (e)sdT 19.60 15.31
J1553+6933 (e)sdT 19.10 15.10
J1810-1010 (e)sdT 17.30 12.51
J0452-3608B esdL0 16.44 15.23
HIP 38939B d/sdT4.5 16.12 13.92

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GJ 576B sdT5.5 16.59 14.23

HIP 70319B sdT8 18.80 14.85

Wolf 1130B esdT8 19.64 14.87

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#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	J1256-6202	RA: 12 56 43.4939 (194.1812246d) Dec: -62 02 8.15 (-62.03560d) Equinox: J2000	Proper Motion RA: -1124.0440 mas/yr Proper Motion Dec: 24.141 mas/yr Parallax: 0.0132367" Epoch of Position: 2016	
<p><i>Comments: position and astrometry from Gaia DR3 epoch 2016</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs]</i> <i>Extended=NO</i></p>				
(2)	J1416+1348A	RA: 14 16 24.1692 (214.1007050d) Dec: +13 48 28.24 (13.80784d) Equinox: J2000	Proper Motion RA: 86.67 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2016.0	
<p><i>Comments: astrometry and position from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i></p>				
(4)	J1412+1216	RA: 14 12 3.7750 (213.0157292d) Dec: +12 16 9.77 (12.26938d) Equinox: J2000	Proper Motion RA: -230.3 mas/yr Proper Motion Dec: -9 mas/yr Parallax: .02" Epoch of Position: 2011.9	
<p><i>Comments: position from PanSTARRS</i> <i>proper motion from Best+2018</i> <i>parallax assumes distance 50 pc</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i></p>				
(5)	J0645-6646	RA: 06 45 28.9775 (101.3707396d) Dec: -66 45 49.59 (-66.76378d) Equinox: J2000	Proper Motion RA: -885.2 mas/yr Proper Motion Dec: 1311.5 mas/yr Parallax: 0.0538" Epoch of Position: 2016	
<p><i>Comments: Updated coordinates to Gaia DR3</i> <i>astrometry from Kirkpatrick+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i></p>				
(6)	J1444-2019	RA: 14 44 17.0292 (221.0709550d) Dec: -20 19 56.86 (-20.33246d) Equinox: J2000	Proper Motion RA: -2908.634 mas/yr Proper Motion Dec: -1960.916 mas/yr Parallax: 0.0581427" Epoch of Position: 2016	
<p><i>Comments: position and astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i></p>				

Fixed Targets

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(8)	J0616-6407	RA: 06 16 43.8424 (94.1826767d) Dec: -64 07 20.22 (-64.12228d) Equinox: J2000	Proper Motion RA: 1304.0 mas/yr Proper Motion Dec: -31.9 mas/yr Parallax: 0.0199" Epoch of Position: 2017.0
<p><i>Comments: position from VHS astrometry from Faherty+2012 Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO</i></p>			
(9)	J0532+8246	RA: 05 33 11.7363 (83.2989013d) Dec: +82 46 18.57 (82.77182d) Equinox: J2000	Proper Motion RA: 2038.7940000000003 mas/yr Proper Motion Dec: -1662.9580000653732 mas/yr Parallax: 0.0407097" Epoch of Position: 2016
<p><i>Comments: position and astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO</i></p>			
(11)	J1256-0224	RA: 12 56 36.5924 (194.1524683d) Dec: -02 24 57.06 (-2.41585d) Equinox: J2000	Proper Motion RA: -510.852 mas/yr Proper Motion Dec: -299.8459999844272 mas/yr Parallax: 0.0120631" Epoch of Position: 2016
<p><i>Comments: position & astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO</i></p>			
(13)	J1626+3925	RA: 16 26 18.2350 (246.5759792d) Dec: +39 25 23.29 (39.42314d) Equinox: J2000	Proper Motion RA: -1374.755 mas/yr Proper Motion Dec: 237.417 mas/yr Parallax: 0.0323327" Epoch of Position: 2016
<p><i>Comments: position & astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO</i></p>			
(14)	J0414-5854	RA: 04 14 51.7940 (63.7158083d) Dec: -58 54 55.35 (-58.91537d) Equinox: J2000	Proper Motion RA: 214 mas/yr Proper Motion Dec: 653.8 mas/yr Parallax: .014" Epoch of Position: 2013.8
<p><i>Comments: position from VHS PM from Schneider+2020 parallax assumes distance of ~70pc Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i></p>			
(15)	J1553+6933	RA: 15 53 45.8920 (238.4412167d) Dec: +69 34 9.56 (69.56932d) Equinox: J2000	Proper Motion RA: -1526.679 mas/yr Proper Motion Dec: 1258.36278 mas/yr Parallax: 0.038527" Epoch of Position: 2022.4
<p><i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) astrometry from J. Zhang priv. comm Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i></p>			

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(16)	J1810-1010	RA: 18 10 5.2500 (272.5218750d) Dec: -10 10 3.11 (-10.16753d) Equinox: J2000	Proper Motion RA: -1027 mas/yr Proper Motion Dec: -246 mas/yr Parallax: 0.1122" Epoch of Position: 2024.6
<p><i>Comments: Using astrometry from Lodieu+2022 Position from recent image (estimated unc) Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i></p>			
(17)	J0452-3608B	RA: 04 52 45.8817 (73.1911738d) Dec: -36 08 43.95 (-36.14554d) Equinox: J2000	Proper Motion RA: 147.569 mas/yr Proper Motion Dec: -168.44900007981778 mas/yr Parallax: 0.0068825" Epoch of Position: 2016
<p><i>Comments: position & astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, Companion stars, L subdwarfs, Population II stars] Extended=NO</i></p>			
(18)	GJ576B	RA: 15 04 57.6561 (226.2402337d) Dec: +05 38 0.85 (5.63357d) Equinox: J2000	Proper Motion RA: -607.626 mas/yr Proper Motion Dec: -506.509 mas/yr Parallax: 0.0525048" Epoch of Position: 2008.3
<p><i>Comments: position from UKIDSS LAS astrometry for primary from Gaia DR3 Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO</i></p>			
(19)	J1416+1348B	RA: 14 16 23.9506 (214.0997942d) Dec: +13 48 36.76 (13.81021d) Equinox: J2000	Proper Motion RA: 86.670 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2012.4
<p><i>Comments: position from PanSTARRS astrometry from Gaia for primary Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO</i></p>			
(22)	Wolf1130B	RA: 20 05 19.5996 (301.3316650d) Dec: +54 24 28.40 (54.40789d) Equinox: J2000	Proper Motion RA: -1159.524 mas/yr Proper Motion Dec: -904.008 mas/yr Parallax: 0.0602958" Epoch of Position: 2016.5
<p><i>Comments: coordinates from Kirkpatrick et al. (2021) astrometry from primary Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO</i></p>			
(26)	J1126-5003	RA: 11 26 37.1628 (171.6548450d) Dec: -50 03 47.64 (-50.06323d) Equinox: J2000	Proper Motion RA: -1589.907 mas/yr Proper Motion Dec: 450.777 mas/yr Parallax: 0.061833" Epoch of Position: 2016
<p><i>Comments: position and astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, L dwarfs, L subdwarfs, Population III stars] Extended=NO</i></p>			

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(27)	J0104+1535	RA: 01 04 48.6576 (16.2027400d) Dec: +15 34 59.31 (15.58314d) Equinox: J2000	Proper Motion RA: 195.821 mas/yr Proper Motion Dec: -163.95 mas/yr Parallax: .0044" Epoch of Position: 2013.0
<i>Comments: position from PanSTARRS and astrometry from GONZALEZ-PAYO+2021</i> Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO			
(31)	J2030+0749	RA: 20 30 43.0453 (307.6793554d) Dec: +07 49 33.99 (7.82611d) Equinox: J2000	Proper Motion RA: 664.047 mas/yr Proper Motion Dec: -111.65900004925788 mas/yr Parallax: 0.1027966" Epoch of Position: 2016
<i>Comments: position & astrometry from Gaia DR3</i> Category=Star Description=[Brown dwarfs, T dwarfs, T subdwarfs] Extended=NO			
(32)	J0937+2931	RA: 09 37 35.8908 (144.3995450d) Dec: +29 31 22.79 (29.52300d) Equinox: J2000	Proper Motion RA: 955.15 mas/yr Proper Motion Dec: -1319.78 mas/yr Parallax: 0.163390" Epoch of Position: 2012.8
<i>Comments: position from PanSTARRS astrometry from Schnieder+2009</i> Category=Star Description=[Brown dwarfs, T dwarfs, T subdwarfs] Extended=NO			
(34)	Gliese584C	RA: 15 23 22.7488 (230.8447867d) Dec: +30 14 53.97 (30.24833d) Equinox: J2000	Proper Motion RA: 117.06 mas/yr Proper Motion Dec: -171.74 mas/yr Parallax: 0.05598" Epoch of Position: 2012.2
<i>Comments: position from PanSTARRS astrometry for primary from VanLeeuwen+2007</i> Category=Star Description=[Brown dwarfs, Companion stars, L dwarfs] Extended=NO			
(35)	HN Peg B	RA: 21 44 28.6688 (326.1194533d) Dec: +14 46 6.03 (14.76834d) Equinox: J2000	Proper Motion RA: 231.108 mas/yr Proper Motion Dec: -113.2 mas/yr Parallax: 0.055148" Epoch of Position: 2011.9
<i>Comments: position from Panstarrs DRI astrometry for primary from gaia dr3</i> Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO			
(36)	HIP70849B	RA: 14 28 42.3074 (217.1762808d) Dec: -46 28 41.62 (-46.47823d) Equinox: J2000	Proper Motion RA: -44.05 mas/yr Proper Motion Dec: -201.58 mas/yr Parallax: .04146" Epoch of Position: 2011.4
<i>Comments: coords from VHS astrometry from Gaia DR3 for primary</i> Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO			

Proposal 4668 - Targets - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

(37)	GJ570D	RA: 14 57 16.1291 (224.3172046d) Dec: -21 22 14.51 (-21.37070d) Equinox: J2000	Proper Motion RA: 1031.472 mas/yr Proper Motion Dec: -1723.619 mas/yr Parallax: 0.169884" Epoch of Position: 2014.1
<p><i>Comments: position from PanSTARRS astrometry for primary from Gaia DR3 Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO</i></p>			
(38)	HIP38939B	RA: 07 58 1.6630 (119.5069292d) Dec: -25 39 1.81 (-25.65050d) Equinox: J2000	Proper Motion RA: 362.409 mas/yr Proper Motion Dec: -245.786 mas/yr Parallax: 0.0541565" Epoch of Position: 2011.8
<p><i>Comments: position from PanSTARRS astrometry for primary from Gaia DR3 Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs, T subdwarfs] Extended=NO</i></p>			
(39)	J1316+0755	RA: 13 16 9.1980 (199.0383250d) Dec: +07 55 55.19 (7.93200d) Equinox: J2000	Proper Motion RA: -1012.2 mas/yr Proper Motion Dec: 102.8 mas/yr Parallax: .02" Epoch of Position: 2022.4
<p><i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) pm from Burningham+2004 parallax assuming distance of 50 pc Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i></p>			
(40)	J0836-1859	RA: 08 36 41.1386 (129.1714108d) Dec: -18 59 47.86 (-18.99663d) Equinox: J2000	Proper Motion RA: -52.5 mas/yr Proper Motion Dec: -153 mas/yr Parallax: 0.0442" Epoch of Position: 2017.8
<p><i>Comments: position and astrometry from Kirkpatrick+2021 Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=YES</i></p>			
(41)	J0448-1935	RA: 04 48 53.5189 (72.2229954d) Dec: -19 35 46.06 (-19.59613d) Equinox: J2000	Proper Motion RA: 901.1 mas/yr Proper Motion Dec: 761.1 mas/yr Parallax: 0.0576" Epoch of Position: 2013.6
<p><i>Comments: position from PanSTARRS astrometry from Kirkpatrick+2021 Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i></p>			

Proposal 4668 - Targets - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

(42)	HIP70319B	RA: 14 23 20.7994 (215.8366642d) Dec: +01 16 38.34 (1.27732d) Equinox: J2000	Proper Motion RA: 222.531 mas/yr Proper Motion Dec: -478.275 mas/yr Parallax: 0.0572706" Epoch of Position: 2008.4
<p><i>Comments: position from UKIDSS LAS astrometry for primary from GAIA DR3 Category=Star Description=[Brown dwarfs, Companion stars, T subdwarfs] Extended=NO</i></p>			
(43)	J0414-5854-UPDATED	RA: 04 14 52.2480 (63.7177000d) Dec: -58 54 47.61 (-58.91323d) Equinox: J2000	Proper Motion RA: 214 mas/yr Proper Motion Dec: 653.8 mas/yr Parallax: .014" Epoch of Position: 2024.64
<p><i>Comments: position from MIRI image PM from Schneider+2020 parallax assumes distance of ~70pc Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i></p>			

Proposal 4668 - Observation 79 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 79: Gliese584C NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 79:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(34)	Gliese584C	RA: 15 23 22.7488 (230.8447867d) Dec: +30 14 53.97 (30.24833d) Equinox: J2000			Proper Motion RA: 117.06 mas/yr Proper Motion Dec: -171.74 mas/yr Parallax: 0.05598" Epoch of Position: 2012.2					
<i>Comments: position from PanSTARRS astrometry for primary from VanLeeuwen+2007 Category=Star Description=[Brown dwarfs, Companion stars, L dwarfs] Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	12	1	NONE	4	4	81.098	174165

Proposal 4668 - Observation 80 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 80: Gliese584C NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 80:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(34)	Gliese584C	RA: 15 23 22.7488 (230.8447867d) Dec: +30 14 53.97 (30.24833d) Equinox: J2000			Proper Motion RA: 117.06 mas/yr Proper Motion Dec: -171.74 mas/yr Parallax: 0.05598" Epoch of Position: 2012.2					
<i>Comments: position from PanSTARRS astrometry for primary from VanLeeuwen+2007 Category=Star Description=[Brown dwarfs, Companion stars, L dwarfs] Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode			Slit			Subarray				
	false			S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	20	1	NONE	2	2	230.789	174165
	2	G395H/F290LP	S200A2	NRSRAPID	20	1	NONE	2	2	230.789	

Proposal 4668 - Observation 81 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 81: Gliese584C MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy <i>Comments: Acquisition should be done using the MASK1550 subarray</i>																												
	(Visit 81:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																												
Diagnostics																													
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="2">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(34)</td> <td>Gliese584C</td> <td>RA: 15 23 22.7488 (230.8447867d) Dec: +30 14 53.97 (30.248333d) Equinox: J2000</td> <td colspan="2">Proper Motion RA: 117.06 mas/yr Proper Motion Dec: -171.74 mas/yr Parallax: 0.05598" Epoch of Position: 2012.2</td> <td colspan="4"></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections		Miscellaneous				(34)	Gliese584C	RA: 15 23 22.7488 (230.8447867d) Dec: +30 14 53.97 (30.248333d) Equinox: J2000	Proper Motion RA: 117.06 mas/yr Proper Motion Dec: -171.74 mas/yr Parallax: 0.05598" Epoch of Position: 2012.2						<i>Comments: position from PanSTARRS astrometry for primary from VanLeeuwen+2007 Category=Star Description=[Brown dwarfs, Companion stars, L dwarfs] Extended=NO</i>									
	#	Name	Target Coordinates	Targ. Coord. Corrections		Miscellaneous																							
(34)	Gliese584C	RA: 15 23 22.7488 (230.8447867d) Dec: +30 14 53.97 (30.248333d) Equinox: J2000	Proper Motion RA: 117.06 mas/yr Proper Motion Dec: -171.74 mas/yr Parallax: 0.05598" Epoch of Position: 2012.2																										
Acquisition	<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>SAME</td> <td>F1000W</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>11.1</td> <td>175028</td> </tr> </tbody> </table>	#	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	175028										
	#	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	175028																					
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	<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>5</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>13.875</td> <td></td> <td>F1000W</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	5	1	1	1	1	13.875		F1000W								
	#	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	5	1	1	1	1	13.875		F1000W																				

Proposal 4668 - Observation 81 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	25	1	2	1	2	138.752	174165

Proposal 4668 - Observation 95 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	<p>Proposal 4668, Observation 95: J1126-5003 NIRSPEC Prism</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSPEC Fixed Slit Spectroscopy</p>											
Diagnostics	(Visit 95:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(26)	J1126-5003	RA: 11 26 37.1628 (171.6548450d) Dec: -50 03 47.64 (-50.06323d) Equinox: J2000			Proper Motion RA: -1589.907 mas/yr Proper Motion Dec: 450.777 mas/yr Parallax: 0.061833" Epoch of Position: 2016						
	<p><i>Comments: position and astrometry from Gaia DR3</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Brown dwarfs, L dwarfs, L subdwarfs, Population III stars]</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	F110W	NRSRAPIDD6	3	1	1	0.26	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1			SUBS200A1				
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern					
	1	2					SPATIAL					
Spectral Elements	#	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	2	1	1	NONE	4	4	18.778	174165

Proposal 4668 - Observation 6 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 6: J1416+1348A NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit 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			
	(2)	J1416+1348A	RA: 14 16 24.1692 (214.1007050d) Dec: +13 48 28.24 (13.80784d) Equinox: J2000			Proper Motion RA: 86.67 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2016.0						
<i>Comments: astrometry and position from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>												
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	F110W	NRSRAPID	3	1	1	0.08	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern					
	1	2					NONE					
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	8	1	1	NONE	2	2	98.933	174165
	2	G395H/F290LP	S200A2	NRSRAPID	8	1	2	NONE	2	2	98.933	

Proposal 4668 - Observation 5 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 5: J1416+1348A MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy <i>Comments: Acquisition should be done using the MASK1550 subarray</i>																												
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																												
Diagnosics																													
Fixed Targets	<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>(2)</td> <td>J1416+1348A</td> <td>RA: 14 16 24.1692 (214.1007050d) Dec: +13 48 28.24 (13.80784d) Equinox: J2000</td> <td>Proper Motion RA: 86.67 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2016.0</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	J1416+1348A	RA: 14 16 24.1692 (214.1007050d) Dec: +13 48 28.24 (13.80784d) Equinox: J2000	Proper Motion RA: 86.67 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2016.0		<i>Comments: astrometry and position from Gaia DR3</i> Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO																	
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																								
(2)	J1416+1348A	RA: 14 16 24.1692 (214.1007050d) Dec: +13 48 28.24 (13.80784d) Equinox: J2000	Proper Motion RA: 86.67 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2016.0																										
Acquisition	<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>SAME</td> <td>F1000W</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>11.1</td> <td>175028</td> </tr> </tbody> </table>	#	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	175028										
	#	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	175028																					
Template	Subarray				Obtain Verification Image?																								
	FULL				true																								
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>No. Spectral Steps</th> <th>Spectral Step Offset</th> <th>No. Spatial Steps</th> <th>Spatial Step Offset</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALONG SLIT NOD</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset	1	ALONG SLIT NOD																				
	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset																							
1	ALONG SLIT NOD																												
Pointing Verification	<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>5</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>13.875</td> <td></td> <td>F1000W</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	5	1	1	1	1	13.875		F1000W								
	#	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	5	1	1	1	1	13.875		F1000W																				

Proposal 4668 - Observation 5 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	20	1	2	1	2	111.002	174165

Proposal 4668 - Observation 1 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 1: J1256-6202 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(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)	J1256-6202	RA: 12 56 43.4939 (194.1812246d) Dec: -62 02 8.15 (-62.03560d) Equinox: J2000			Proper Motion RA: -1124.0440 mas/yr Proper Motion Dec: 24.141 mas/yr Parallax: 0.0132367" Epoch of Position: 2016					
<i>Comments: position and astrometry from Gaia DR3 epoch 2016</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs]</i> <i>Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	12	1	1	NONE	4	4	81.098

Proposal 4668 - Observation 3 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 3: J1256-6202 MIRI LRS Diagnostic Status: Warning Observing Template: MIRI Low 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)	J1256-6202	RA: 12 56 43.4939 (194.1812246d) Dec: -62 02 8.15 (-62.03560d) Equinox: J2000		Proper Motion RA: -1124.0440 mas/yr Proper Motion Dec: 24.141 mas/yr Parallax: 0.0132367" Epoch of Position: 2016					
<i>Comments: position and astrometry from Gaia DR3 epoch 2016</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs]</i> <i>Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 3 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	174165

Proposal 4668 - Observation 8 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 8: J1412+1216 MIRI LRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(4)	J1412+1216	RA: 14 12 3.7750 (213.0157292d) Dec: +12 16 9.77 (12.26938d) Equinox: J2000	Proper Motion RA: -230.3 mas/yr Proper Motion Dec: -9 mas/yr Parallax: .02" Epoch of Position: 2011.9						
<i>Comments: position from PanSTARRS proper motion from Best+2018 parallax assumes distance 50 pc Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 8 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165

Proposal 4668 - Observation 7 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 7: J1412+1216 NIRSPEC Prism (updated) Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(4)	J1412+1216	RA: 14 12 3.7750 (213.0157292d) Dec: +12 16 9.77 (12.26938d) Equinox: J2000			Proper Motion RA: -230.3 mas/yr Proper Motion Dec: -9 mas/yr Parallax: .02" Epoch of Position: 2011.9					
<i>Comments: position from PanSTARRS proper motion from Best+2018 parallax assumes distance 50 pc Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	12	1	1	NONE	4	4	81.098

Proposal 4668 - Observation 10 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 10: J0645-6646 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(5)	J0645-6646	RA: 06 45 28.9775 (101.3707396d) Dec: -66 45 49.59 (-66.76378d) Equinox: J2000			Proper Motion RA: -885.2 mas/yr Proper Motion Dec: 1311.5 mas/yr Parallax: 0.0538" Epoch of Position: 2016						
<i>Comments: Updated coordinates to Gaia DR3 astrometry from Kirkpatrick+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>												
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	30	1	1	NONE	2	2	340.669	174165
	2	G395H/F290LP	S200A2	NRSRAPID	30	1	2	NONE	2	2	340.669	

Proposal 4668 - Observation 9 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 9: J0645-6646 NIRSPEC Prism (updated) Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit 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		
	(5)	J0645-6646	RA: 06 45 28.9775 (101.3707396d) Dec: -66 45 49.59 (-66.76378d) Equinox: J2000			Proper Motion RA: -885.2 mas/yr Proper Motion Dec: 1311.5 mas/yr Parallax: 0.0538" Epoch of Position: 2016					
<i>Comments: Updated coordinates to Gaia DR3 astrometry from Kirkpatrick+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	6	1	NONE	4	4	43.706	174165

Proposal 4668 - Observation 13 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 13: J1444-2019 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy Comments: Acquisition should be done using the MASK1550 subarray																												
	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																												
Diagnosics																													
Fixed Targets	<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>(6)</td> <td>J1444-2019</td> <td>RA: 14 44 17.0292 (221.0709550d) Dec: -20 19 56.86 (-20.33246d) Equinox: J2000</td> <td>Proper Motion RA: -2908.634 mas/yr Proper Motion Dec: -1960.916 mas/yr Parallax: 0.0581427" Epoch of Position: 2016</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	J1444-2019	RA: 14 44 17.0292 (221.0709550d) Dec: -20 19 56.86 (-20.33246d) Equinox: J2000	Proper Motion RA: -2908.634 mas/yr Proper Motion Dec: -1960.916 mas/yr Parallax: 0.0581427" Epoch of Position: 2016		Comments: position and astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, L subdwarfs, Population II stars] Extended=NO																	
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																								
(6)	J1444-2019	RA: 14 44 17.0292 (221.0709550d) Dec: -20 19 56.86 (-20.33246d) Equinox: J2000	Proper Motion RA: -2908.634 mas/yr Proper Motion Dec: -1960.916 mas/yr Parallax: 0.0581427" Epoch of Position: 2016																										
Acquisition	<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>SAME</td> <td>F1000W</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>11.1</td> <td>175028</td> </tr> </tbody> </table>	#	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	175028										
	#	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	175028																					
Template	Subarray				Obtain Verification Image?																								
	FULL				true																								
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>No. Spectral Steps</th> <th>Spectral Step Offset</th> <th>No. Spatial Steps</th> <th>Spatial Step Offset</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALONG SLIT NOD</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset	1	ALONG SLIT NOD																				
	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset																							
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Pointing Verification	<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>5</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>13.875</td> <td></td> <td>F1000W</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	5	1	1	1	1	13.875		F1000W								
	#	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	5	1	1	1	1	13.875		F1000W																				

Proposal 4668 - Observation 13 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	15	1	2	1	2	83.251	174165

Proposal 4668 - Observation 16 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 16: J0616-6407 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(8)	J0616-6407	RA: 06 16 43.8424 (94.1826767d) Dec: -64 07 20.22 (-64.12228d) Equinox: J2000			Proper Motion RA: 1304.0 mas/yr Proper Motion Dec: -31.9 mas/yr Parallax: 0.0199" Epoch of Position: 2017.0					
<i>Comments: position from VHS astrometry from Faherty+2012</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPIDD6	3	1	1	14.452	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	6	1	NONE	4	4	43.706	174165

Proposal 4668 - Observation 17 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 17: J0616-6407 MIRI LRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(8)	J0616-6407	RA: 06 16 43.8424 (94.1826767d) Dec: -64 07 20.22 (-64.12228d) Equinox: J2000			Proper Motion RA: 1304.0 mas/yr Proper Motion Dec: -31.9 mas/yr Parallax: 0.0199" Epoch of Position: 2017.0				
<i>Comments: position from VHS astrometry from Faherty+2012</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 17 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	150	1	2	1	2	832.512	174165

Proposal 4668 - Observation 18 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 18: J0532+8246 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit 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		
	(9)	J0532+8246	RA: 05 33 11.7363 (83.2989013d) Dec: +82 46 18.57 (82.77182d) Equinox: J2000			Proper Motion RA: 2038.7940000000003 mas/yr Proper Motion Dec: -1662.9580000653732 mas/yr Parallax: 0.0407097" Epoch of Position: 2016					
<i>Comments: position and astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
Spectral Elements	#	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	1	NONE	4	4	31.242

Proposal 4668 - Observation 19 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 19: J0532+8246 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(9)	J0532+8246	RA: 05 33 11.7363 (83.2989013d) Dec: +82 46 18.57 (82.77182d) Equinox: J2000			Proper Motion RA: 2038.7940000000003 mas/yr Proper Motion Dec: -1662.9580000653732 mas/yr Parallax: 0.0407097" Epoch of Position: 2016					
<i>Comments: position and astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1 and S200A2			ALLSLITS			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	30	1	1	NONE	2	2	340.669
	2	G395H/F290LP	S200A2	NRSRAPID	30	1	2	NONE	2	2	340.669

Proposal 4668 - Observation 20 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 20: J0532+8246 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
Diagnostics	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(9)	J0532+8246	RA: 05 33 11.7363 (83.2989013d) Dec: +82 46 18.57 (82.77182d) Equinox: J2000		Proper Motion RA: 2038.7940000000003 mas/yr Proper Motion Dec: -1662.9580000653732 mas/yr Parallax: 0.0407097" Epoch of Position: 2016					
	<i>Comments: position and astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>									
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 20 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	174165

Proposal 4668 - Observation 114 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 114: J0532+8246 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 114:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(9)	J0532+8246	RA: 05 33 11.7363 (83.2989013d) Dec: +82 46 18.57 (82.77182d) Equinox: J2000		Proper Motion RA: 2038.7940000000003 mas/yr Proper Motion Dec: -1662.9580000653732 mas/yr Parallax: 0.0407097" Epoch of Position: 2016					
<i>Comments: position and astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 114 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	174165

Proposal 4668 - Observation 96 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 96: J0104+1535 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 96:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(27)	J0104+1535	RA: 01 04 48.6576 (16.2027400d) Dec: +15 34 59.31 (15.58314d) Equinox: J2000			Proper Motion RA: 195.821 mas/yr Proper Motion Dec: -163.95 mas/yr Parallax: .0044" Epoch of Position: 2013.0					
<i>Comments: position from PanSTARRS and astrometry from GONZALEZ-PAYO+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
Spectral Elements	#	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	60	1	1	NONE	4	4	380.234

Proposal 4668 - Observation 97 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 97: J0104+1535 MIRI LRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
Diagnostics	(Visit 97:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(27)	J0104+1535	RA: 01 04 48.6576 (16.2027400d) Dec: +15 34 59.31 (15.58314d) Equinox: J2000	Proper Motion RA: 195.821 mas/yr Proper Motion Dec: -163.95 mas/yr Parallax: .0044" Epoch of Position: 2013.0						
	<i>Comments: position from PanSTARRS and astrometry from GONZALEZ-PAYO+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>									
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 97 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	200	1	2	1	2	1110.016	174165

Proposal 4668 - Observation 23 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 23: J1256-0224 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(11)	J1256-0224	RA: 12 56 36.5924 (194.1524683d) Dec: -02 24 57.06 (-2.41585d) Equinox: J2000			Proper Motion RA: -510.852 mas/yr Proper Motion Dec: -299.8459999844272 mas/yr Parallax: 0.0120631" Epoch of Position: 2016					
<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPIDD6	3	1	1	14.452	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	12	1	1	NONE	4	4	81.098

Proposal 4668 - Observation 24 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 24: J1256-0224 MIRI LRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(11)	J1256-0224	RA: 12 56 36.5924 (194.1524683d) Dec: -02 24 57.06 (-2.41585d) Equinox: J2000	Proper Motion RA: -510.852 mas/yr Proper Motion Dec: -299.8459999844272 mas/yr Parallax: 0.0120631" Epoch of Position: 2016						
<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 24 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
		1	FASTR1	100	1	2	1	2	555.008

Proposal 4668 - Observation 25 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 25: J1626+3925 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(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)	J1626+3925	RA: 16 26 18.2350 (246.5759792d) Dec: +39 25 23.29 (39.42314d) Equinox: J2000			Proper Motion RA: -1374.755 mas/yr Proper Motion Dec: 237.417 mas/yr Parallax: 0.0323327" Epoch of Position: 2016					
<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
Spectral Elements	#	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	1	NONE	4	4	18.778

Proposal 4668 - Observation 26 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 26: J1626+3925 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(13)	J1626+3925	RA: 16 26 18.2350 (246.5759792d) Dec: +39 25 23.29 (39.42314d) Equinox: J2000			Proper Motion RA: -1374.755 mas/yr Proper Motion Dec: 237.417 mas/yr Parallax: 0.0323327" Epoch of Position: 2016					
<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1 and S200A2			ALLSLITS			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	20	1	NONE	2	2	230.789	174165
	2	G395H/F290LP	S200A2	NRSRAPID	20	1	NONE	2	2	230.789	

Proposal 4668 - Observation 27 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 27: J1626+3925 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy <i>Comments: Acquisition should be done using the MASK1550 subarray</i>									
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)	J1626+3925	RA: 16 26 18.2350 (246.5759792d) Dec: +39 25 23.29 (39.42314d) Equinox: J2000	Proper Motion RA: -1374.755 mas/yr Proper Motion Dec: 237.417 mas/yr Parallax: 0.0323327" Epoch of Position: 2016						
	<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>									
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 27 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	174165

Proposal 4668 - Observation 83 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 83: HNPegB NIRSPEC G395H Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy											
	(Visit 83:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(35)	HNPegB	RA: 21 44 28.6688 (326.1194533d) Dec: +14 46 6.03 (14.76834d) Equinox: J2000			Proper Motion RA: 231.108 mas/yr Proper Motion Dec: -113.2 mas/yr Parallax: 0.055148" Epoch of Position: 2011.9						
Comments: position from Panstarrs DR1 astrometry for primary from gaia dr3 Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO												
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern					
	1	2					NONE					
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	20	1	1	NONE	2	2	230.789	174165
	2	G395H/F290LP	S200A2	NRSRAPID	20	1	2	NONE	2	2	230.789	

Proposal 4668 - Observation 84 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 84: HIP70849B NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 84:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(36)	HIP70849B	RA: 14 28 42.3074 (217.1762808d) Dec: -46 28 41.62 (-46.47823d) Equinox: J2000			Proper Motion RA: -44.05 mas/yr Proper Motion Dec: -201.58 mas/yr Parallax: .04146" Epoch of Position: 2011.4					
<i>Comments: coords from VHS astrometry from Gaia DR3 for primary Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	1	NONE	4	4	56.17

Proposal 4668 - Observation 85 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 85: HIP70849B NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 85:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(36)	HIP70849B	RA: 14 28 42.3074 (217.1762808d) Dec: -46 28 41.62 (-46.47823d) Equinox: J2000			Proper Motion RA: -44.05 mas/yr Proper Motion Dec: -201.58 mas/yr Parallax: .04146" Epoch of Position: 2011.4					
<i>Comments: coords from VHS astrometry from Gaia DR3 for primary Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode			Slit			Subarray				
	false			S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	30	1	NONE	2	2	340.669	174165
	2	G395H/F290LP	S200A2	NRSRAPID	30	1	NONE	2	2	340.669	

Proposal 4668 - Observation 89 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 89: Gliese570D MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy <i>Comments: Acquisition should be done using the MASK1550 subarray</i>																												
	(Visit 89:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																												
Diagnostics																													
Fixed Targets	<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>(37)</td> <td>GJ570D</td> <td>RA: 14 57 16.1291 (224.3172046d) Dec: -21 22 14.51 (-21.37070d) Equinox: J2000</td> <td>Proper Motion RA: 1031.472 mas/yr Proper Motion Dec: -1723.619 mas/yr Parallax: 0.169884" Epoch of Position: 2014.1</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(37)	GJ570D	RA: 14 57 16.1291 (224.3172046d) Dec: -21 22 14.51 (-21.37070d) Equinox: J2000	Proper Motion RA: 1031.472 mas/yr Proper Motion Dec: -1723.619 mas/yr Parallax: 0.169884" Epoch of Position: 2014.1		<i>Comments: position from PanSTARRS astrometry for primary from Gaia DR3 Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO</i>																	
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																								
(37)	GJ570D	RA: 14 57 16.1291 (224.3172046d) Dec: -21 22 14.51 (-21.37070d) Equinox: J2000	Proper Motion RA: 1031.472 mas/yr Proper Motion Dec: -1723.619 mas/yr Parallax: 0.169884" Epoch of Position: 2014.1																										
Acquisition	<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>SAME</td> <td>F1000W</td> <td>FAST</td> <td>4</td> <td>1</td> <td>1</td> <td>11.1</td> <td>175028</td> </tr> </tbody> </table>	#	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	175028										
	#	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	175028																					
Template	Subarray				Obtain Verification Image?																								
	FULL				true																								
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>No. Spectral Steps</th> <th>Spectral Step Offset</th> <th>No. Spatial Steps</th> <th>Spatial Step Offset</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALONG SLIT NOD</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset	1	ALONG SLIT NOD																				
	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset																							
1	ALONG SLIT NOD																												
Pointing Verification	<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>5</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>13.875</td> <td></td> <td>F1000W</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	5	1	1	1	1	13.875		F1000W								
	#	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	5	1	1	1	1	13.875		F1000W																				

Proposal 4668 - Observation 89 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	25	1	2	1	2	138.752	174165

Proposal 4668 - Observation 87 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 87: Gliese570D NIRSPEC prism (updated) Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 87:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(37)	GJ570D	RA: 14 57 16.1291 (224.3172046d) Dec: -21 22 14.51 (-21.37070d) Equinox: J2000			Proper Motion RA: 1031.472 mas/yr Proper Motion Dec: -1723.619 mas/yr Parallax: 0.169884" Epoch of Position: 2014.1					
<i>Comments: position from PanSTARRS astrometry for primary from Gaia DR3 Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs] Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	4	1	NONE	4	4	31.242	174165
	2	PRISM/CLEAR	S200A1	NRSRAPID	4	1	NONE	4	4	31.242	174165

Proposal 4668 - Observation 98 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 98: J2030+0749 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 98:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(31)	J2030+0749	RA: 20 30 43.0453 (307.6793554d) Dec: +07 49 33.99 (7.82611d) Equinox: J2000			Proper Motion RA: 664.047 mas/yr Proper Motion Dec: -111.65900004925788 mas/yr Parallax: 0.1027966" Epoch of Position: 2016					
<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, T dwarfs, T subdwarfs]</i> <i>Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					SPATIAL				
Spectral Elements	#	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	1	NONE	4	4	18.778

Proposal 4668 - Observation 29 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 29: J2030+0749 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(31)	J2030+0749	RA: 20 30 43.0453 (307.6793554d) Dec: +07 49 33.99 (7.82611d) Equinox: J2000			Proper Motion RA: 664.047 mas/yr Proper Motion Dec: -111.65900004925788 mas/yr Parallax: 0.1027966" Epoch of Position: 2016						
<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, T dwarfs, T subdwarfs]</i> <i>Extended=NO</i>												
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern					
	1	2					NONE					
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	20	1	1	NONE	2	2	230.789	174165
	2	G395H/F290LP	S200A2	NRSRAPID	20	1	2	NONE	2	2	230.789	

Proposal 4668 - Observation 30 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 30: J2030+0749 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
Diagnostics	(Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(31)	J2030+0749	RA: 20 30 43.0453 (307.6793554d) Dec: +07 49 33.99 (7.82611d) Equinox: J2000	Proper Motion RA: 664.047 mas/yr Proper Motion Dec: -111.65900004925788 mas/yr Parallax: 0.1027966" Epoch of Position: 2016						
	Comments: position & astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, T dwarfs, T subdwarfs] 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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 30 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	25	1	2	1	2	138.752	174165

Proposal 4668 - Observation 99 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 99: J0937+2931 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 99:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(32)	J0937+2931	RA: 09 37 35.8908 (144.3995450d) Dec: +29 31 22.79 (29.52300d) Equinox: J2000			Proper Motion RA: 955.15 mas/yr Proper Motion Dec: -1319.78 mas/yr Parallax: 0.163390" Epoch of Position: 2012.8					
<i>Comments: position from PanSTARRS astrometry from Schnieder+2009 Category=Star Description=[Brown dwarfs, T dwarfs, T subdwarfs] Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	174165

Proposal 4668 - Observation 115 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 115: J0937+2931 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 115:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(32)	J0937+2931	RA: 09 37 35.8908 (144.3995450d) Dec: +29 31 22.79 (29.52300d) Equinox: J2000			Proper Motion RA: 955.15 mas/yr Proper Motion Dec: -1319.78 mas/yr Parallax: 0.163390" Epoch of Position: 2012.8					
<i>Comments: position from PanSTARRS astrometry from Schnieder+2009 Category=Star Description=[Brown dwarfs, T dwarfs, T subdwarfs] Extended=NO</i>											
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	174165

Proposal 4668 - Observation 75 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 75: J0937+2931 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 75:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(32)	J0937+2931	RA: 09 37 35.8908 (144.3995450d) Dec: +29 31 22.79 (29.52300d) Equinox: J2000			Proper Motion RA: 955.15 mas/yr Proper Motion Dec: -1319.78 mas/yr Parallax: 0.163390" Epoch of Position: 2012.8						
<i>Comments: position from PanSTARRS astrometry from Schnieder+2009 Category=Star Description=[Brown dwarfs, T dwarfs, T subdwarfs] Extended=NO</i>												
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	20	1	1	NONE	2	2	230.789	174165
	2	G395H/F290LP	S200A2	NRSRAPID	20	1	2	NONE	2	2	230.789	

Proposal 4668 - Observation 116 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 116: J0937+2931 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 116:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(32)	J0937+2931	RA: 09 37 35.8908 (144.3995450d) Dec: +29 31 22.79 (29.52300d) Equinox: J2000			Proper Motion RA: 955.15 mas/yr Proper Motion Dec: -1319.78 mas/yr Parallax: 0.163390" Epoch of Position: 2012.8						
<i>Comments: position from PanSTARRS astrometry from Schnieder+2009 Category=Star Description=[Brown dwarfs, T dwarfs, T subdwarfs] Extended=NO</i>												
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	F110W	NRSRAPIDD6	3	1	1	0.26	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	20	1	1	NONE	2	2	230.789	174165
	2	G395H/F290LP	S200A2	NRSRAPID	20	1	2	NONE	2	2	230.789	

Proposal 4668 - Observation 42 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 42: J1416+1348B NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 42:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(19)	J1416+1348B	RA: 14 16 23.9506 (214.0997942d) Dec: +13 48 36.76 (13.81021d) Equinox: J2000			Proper Motion RA: 86.670 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2012.4					
<i>Comments: position from PanSTARRS astrometry from Gaia for primary Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	32	1	1	NONE	4	4	205.738

Proposal 4668 - Observation 43 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 43: J1416+1348B NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(19)	J1416+1348B	RA: 14 16 23.9506 (214.0997942d) Dec: +13 48 36.76 (13.81021d) Equinox: J2000			Proper Motion RA: 86.670 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2012.4						
<i>Comments: position from PanSTARRS astrometry from Gaia for primary Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO</i>												
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	20	1	1	NONE	2	2	230.789	174165
	2	G395H/F290LP	S200A2	NRSRAPID	20	1	2	NONE	2	2	230.789	

Proposal 4668 - Observation 44 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 44: J1416+1348B MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy <i>Comments: Acquisition should be done using the MASK1550 subarray</i>									
	(Visit 44:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Miscellaneous			
	(19)	J1416+1348B	RA: 14 16 23.9506 (214.0997942d) Dec: +13 48 36.76 (13.81021d) Equinox: J2000		Proper Motion RA: 86.670 mas/yr Proper Motion Dec: 127.953 mas/yr Parallax: 0.1077375" Epoch of Position: 2012.4					
<i>Comments: position from PanSTARRS astrometry from Gaia for primary Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 44 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	174165

Proposal 4668 - Observation 102 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 102: J0448-1935 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 102:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(41)	J0448-1935	RA: 04 48 53.5189 (72.2229954d) Dec: -19 35 46.06 (-19.59613d) Equinox: J2000			Proper Motion RA: 901.1 mas/yr Proper Motion Dec: 761.1 mas/yr Parallax: 0.0576" Epoch of Position: 2013.6					
<i>Comments: position from PanSTARRS astrometry from Kirkpatrick+2021 Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	20	1	1	NONE	4	4	130.954

Proposal 4668 - Observation 103 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 103: J0448-1935 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 103:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(41)	J0448-1935	RA: 04 48 53.5189 (72.2229954d) Dec: -19 35 46.06 (-19.59613d) Equinox: J2000			Proper Motion RA: 901.1 mas/yr Proper Motion Dec: 761.1 mas/yr Parallax: 0.0576" Epoch of Position: 2013.6						
<i>Comments: position from PanSTARRS astrometry from Kirkpatrick+2021 Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i>												
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB2048	F110W	NRSRAPIDD6	3	1	1	14.452	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	40	1	1	NONE	2	2	450.549	174165
	2	G395H/F290LP	S200A2	NRSRAPID	40	1	2	NONE	2	2	450.549	

Proposal 4668 - Observation 104 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 104: J0448-1935 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 104:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(41)	J0448-1935	RA: 04 48 53.5189 (72.2229954d) Dec: -19 35 46.06 (-19.59613d) Equinox: J2000			Proper Motion RA: 901.1 mas/yr Proper Motion Dec: 761.1 mas/yr Parallax: 0.0576" Epoch of Position: 2013.6				
<i>Comments: position from PanSTARRS astrometry from Kirkpatrick+2021 Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 104 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165

Proposal 4668 - Observation 108 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 108: J1316+0755 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 108:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(39)	J1316+0755	RA: 13 16 9.1980 (199.0383250d) Dec: +07 55 55.19 (7.93200d) Equinox: J2000			Proper Motion RA: -1012.2 mas/yr Proper Motion Dec: 102.8 mas/yr Parallax: .02" Epoch of Position: 2022.4					
<i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) pm from Burningham+2004 parallax assuming distance of 50 pc</i> Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	F110W	NRSRAPID	3	1	1	42.947	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	120	1	1	NONE	4	4	754.154

Proposal 4668 - Observation 109 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 109: J1316+0755 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
Diagnostics	(Visit 109:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(39)	J1316+0755	RA: 13 16 9.1980 (199.0383250d) Dec: +07 55 55.19 (7.93200d) Equinox: J2000			Proper Motion RA: -1012.2 mas/yr Proper Motion Dec: 102.8 mas/yr Parallax: .02" Epoch of Position: 2022.4					
	<i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) pm from Burningham+2004 parallax assuming distance of 50 pc</i> Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO										
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	F110W	NRSRAPIDD6	3	1	1	171.788	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1 and S200A2			ALLSLITS			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						NONE			
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	80	1	NONE	2	2	890.069	174165
	2	G395H/F290LP	S200A2	NRSRAPID	80	1	NONE	2	2	890.069	

Proposal 4668 - Observation 110 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 110: J1316+0755 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 110:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(39)	J1316+0755	RA: 13 16 9.1980 (199.0383250d) Dec: +07 55 55.19 (7.93200d) Equinox: J2000	Proper Motion RA: -1012.2 mas/yr Proper Motion Dec: 102.8 mas/yr Parallax: .02" Epoch of Position: 2022.4						
<i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) pm from Burningham+2004 parallax assuming distance of 50 pc</i> Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] 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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 110 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	200	1	2	1	2	1110.016	174165

Proposal 4668 - Observation 105 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 105: J0836-1859 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 105:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(40)	J0836-1859	RA: 08 36 41.1386 (129.1714108d) Dec: -18 59 47.86 (-18.99663d) Equinox: J2000			Proper Motion RA: -52.5 mas/yr Proper Motion Dec: -153 mas/yr Parallax: 0.0442" Epoch of Position: 2017.8					
<i>Comments: position and astrometry from Kirkpartick+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, T subdwarfs]</i> <i>Extended=YES</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	F110W	NRSRAPID	3	1	1	42.947	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	120	1	1	NONE	4	4	754.154

Proposal 4668 - Observation 106 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 106: J0836-1859 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 106:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(40)	J0836-1859	RA: 08 36 41.1386 (129.1714108d) Dec: -18 59 47.86 (-18.99663d) Equinox: J2000			Proper Motion RA: -52.5 mas/yr Proper Motion Dec: -153 mas/yr Parallax: 0.0442" Epoch of Position: 2017.8					
<i>Comments: position and astrometry from Kirkpartick+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, T subdwarfs]</i> <i>Extended=YES</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	F110W	NRSRAPIDD6	3	1	1	171.788	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1 and S200A2			ALLSLITS			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	60	1	1	NONE	2	2	670.309
	2	G395H/F290LP	S200A2	NRSRAPID	60	1	2	NONE	2	2	670.309

Proposal 4668 - Observation 107 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 107: J0836-1859 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 107:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Miscellaneous			
	(40)	J0836-1859	RA: 08 36 41.1386 (129.1714108d) Dec: -18 59 47.86 (-18.99663d) Equinox: J2000		Proper Motion RA: -52.5 mas/yr Proper Motion Dec: -153 mas/yr Parallax: 0.0442" Epoch of Position: 2017.8					
<i>Comments: position and astrometry from Kirkpartick+2021</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, T subdwarfs]</i> <i>Extended=YES</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 107 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165

Proposal 4668 - Observation 71 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 71: J0414-5854 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSspec Fixed Slit Spectroscopy										
Diagnostics	(Visit 71:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(14)	J0414-5854	RA: 04 14 51.7940 (63.7158083d) Dec: -58 54 55.35 (-58.91537d) Equinox: J2000			Proper Motion RA: 214 mas/yr Proper Motion Dec: 653.8 mas/yr Parallax: .014" Epoch of Position: 2013.8					
	<i>Comments: position from VHS PM from Schneider+2020 parallax assumes distance of ~70pc Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i>										
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	F110W	NRSRAPID	3	1	1	42.947	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	160	1 1	NONE	4	4	1003.434	174165

Proposal 4668 - Observation 72 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 72: J0414-5854 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 72:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(43)	J0414-5854-UPDATED	RA: 04 14 52.2480 (63.7177000d) Dec: -58 54 47.61 (-58.91323d) Equinox: J2000			Proper Motion RA: 214 mas/yr Proper Motion Dec: 653.8 mas/yr Parallax: .014" Epoch of Position: 2024.64					
<i>Comments: position from MIRI image PM from Schneider+2020 parallax assumes distance of ~70pc Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPIDD6	3	1	1	14.452	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1 and S200A2			ALLSLITS			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						NONE			
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	70	1	NONE	2	2	780.189	174165
	2	G395H/F290LP	S200A2	NRSRAPID	70	1	NONE	2	2	780.189	

Proposal 4668 - Observation 73 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 73: J0414-5854 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 73:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(14)	J0414-5854	RA: 04 14 51.7940 (63.7158083d) Dec: -58 54 55.35 (-58.91537d) Equinox: J2000	Proper Motion RA: 214 mas/yr Proper Motion Dec: 653.8 mas/yr Parallax: .014" Epoch of Position: 2013.8						
<i>Comments: position from VHS PM from Schneider+2020 parallax assumes distance of ~70pc Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 73 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	150	1	2	1	2	832.512	174165

Proposal 4668 - Observation 31 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 31: J1553+6933 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(15)	J1553+6933	RA: 15 53 45.8920 (238.4412167d) Dec: +69 34 9.56 (69.56932d) Equinox: J2000			Proper Motion RA: -1526.679 mas/yr Proper Motion Dec: 1258.36278 mas/yr Parallax: 0.038527" Epoch of Position: 2022.4					
<i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) astrometry from J. Zhang priv. comm</i> Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPIDD6	3	1	1	14.452	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	120	1	1	NONE	4	4	754.154

Proposal 4668 - Observation 32 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 32: J1553+6933 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(15)	J1553+6933	RA: 15 53 45.8920 (238.4412167d) Dec: +69 34 9.56 (69.56932d) Equinox: J2000			Proper Motion RA: -1526.679 mas/yr Proper Motion Dec: 1258.36278 mas/yr Parallax: 0.038527" Epoch of Position: 2022.4						
<i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) astrometry from J. Zhang priv. comm</i> Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO												
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	60	1	1	NONE	2	2	670.309	174165
	2	G395H/F290LP	S200A2	NRSRAPID	60	1	2	NONE	2	2	670.309	

Proposal 4668 - Observation 33 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 33: J1553+6933 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(15)	J1553+6933	RA: 15 53 45.8920 (238.4412167d) Dec: +69 34 9.56 (69.56932d) Equinox: J2000			Proper Motion RA: -1526.679 mas/yr Proper Motion Dec: 1258.36278 mas/yr Parallax: 0.038527" Epoch of Position: 2022.4				
<i>Comments: position from J. Zhang priv. comm. based on Zhang, Lodieu, Martin (2023) astrometry from J. Zhang priv. comm Category=Star Description=[Brown dwarfs, Population II stars, T subdwarfs] Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 33 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165

Proposal 4668 - Observation 34 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 34: J1810-1010 NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(16)	J1810-1010	RA: 18 10 5.2500 (272.5218750d) Dec: -10 10 3.11 (-10.16753d) Equinox: J2000			Proper Motion RA: -1027 mas/yr Proper Motion Dec: -246 mas/yr Parallax: 0.1122" Epoch of Position: 2024.6					
<i>Comments: Using astrometry from Lodieu+2022</i> <i>Position from recent image (estimated unc)</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, T subdwarfs]</i> <i>Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode			Slit			Subarray				
	false			S200A1			SUBS200A1				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	40	1	1	NONE	4	4	255.594

Proposal 4668 - Observation 35 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 35: J1810-1010 NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(16)	J1810-1010	RA: 18 10 5.2500 (272.5218750d) Dec: -10 10 3.11 (-10.16753d) Equinox: J2000			Proper Motion RA: -1027 mas/yr Proper Motion Dec: -246 mas/yr Parallax: 0.1122" Epoch of Position: 2024.6						
<i>Comments: Using astrometry from Lodieu+2022</i> <i>Position from recent image (estimated unc)</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, T subdwarfs]</i> <i>Extended=NO</i>												
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	30	1	1	NONE	2	2	340.669	174165
	2	G395H/F290LP	S200A2	NRSRAPID	30	1	2	NONE	2	2	340.669	

Proposal 4668 - Observation 36 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 36: J1810-1010 MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy <i>Comments: Acquisition should be done using the MASK1550 subarray</i>									
	(Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(16)	J1810-1010	RA: 18 10 5.2500 (272.5218750d) Dec: -10 10 3.11 (-10.16753d) Equinox: J2000			Proper Motion RA: -1027 mas/yr Proper Motion Dec: -246 mas/yr Parallax: 0.1122" Epoch of Position: 2024.6				
<i>Comments: Using astrometry from Lodieu+2022</i> <i>Position from recent image (estimated unc)</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, T subdwarfs]</i> <i>Extended=NO</i>										
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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 36 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	50	1	2	1	2	277.504	174165

Proposal 4668 - Observation 37 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 37: J0452-3608B NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(17)	J0452-3608B	RA: 04 52 45.8817 (73.1911738d) Dec: -36 08 43.95 (-36.14554d) Equinox: J2000			Proper Motion RA: 147.569 mas/yr Proper Motion Dec: -168.44900007981778 mas/yr Parallax: 0.0068825" Epoch of Position: 2016					
<i>Comments: position & astrometry from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Companion stars, L subdwarfs, Population II stars]</i> <i>Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPIDD6	3	1	1	14.452	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	20	1	1	NONE	4	4	130.954

Proposal 4668 - Observation 38 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 38: J0452-3608B MIRI LRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
Diagnostics	(Visit 38:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(17)	J0452-3608B	RA: 04 52 45.8817 (73.1911738d) Dec: -36 08 43.95 (-36.14554d) Equinox: J2000	Proper Motion RA: 147.569 mas/yr Proper Motion Dec: -168.44900007981778 mas/yr Parallax: 0.0068825" Epoch of Position: 2016						
	Comments: position & astrometry from Gaia DR3 Category=Star Description=[Brown dwarfs, Companion stars, L subdwarfs, Population II stars] 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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 38 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165

Proposal 4668 - Observation 101 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 101: HIP38939B NIRSPEC G395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 101:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(38)	HIP38939B	RA: 07 58 1.6630 (119.5069292d) Dec: -25 39 1.81 (-25.65050d) Equinox: J2000			Proper Motion RA: 362.409 mas/yr Proper Motion Dec: -245.786 mas/yr Parallax: 0.0541565" Epoch of Position: 2011.8						
Comments: position from PanSTARRS astrometry for primary from Gaia DR3 Category=Star Description=[Brown dwarfs, Companion stars, T dwarfs, T subdwarfs] Extended=NO												
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243	
Template	HFF Readout Mode			Slit			Subarray					
	false			S200A1 and S200A2			ALLSLITS					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern					
	1	2					NONE					
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	G395H/F290LP	S200A1	NRSRAPID	30	1	1	NONE	2	2	340.669	174165
	2	G395H/F290LP	S200A2	NRSRAPID	30	1	2	NONE	2	2	340.669	

Proposal 4668 - Observation 39 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 39: GJ576B NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 39:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(18)	GJ576B	RA: 15 04 57.6561 (226.2402337d) Dec: +05 38 0.85 (5.63357d) Equinox: J2000			Proper Motion RA: -607.626 mas/yr Proper Motion Dec: -506.509 mas/yr Parallax: 0.0525048" Epoch of Position: 2008.3					
<i>Comments: position from UKIDSS LAS astrometry for primary from Gaia DR3 Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	16	1	1	NONE	4	4	106.026

Proposal 4668 - Observation 40 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 40: GJ576B NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 40:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(18)	GJ576B	RA: 15 04 57.6561 (226.2402337d) Dec: +05 38 0.85 (5.63357d) Equinox: J2000			Proper Motion RA: -607.626 mas/yr Proper Motion Dec: -506.509 mas/yr Parallax: 0.0525048" Epoch of Position: 2008.3					
<i>Comments: position from UKIDSS LAS astrometry for primary from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs]</i> <i>Extended=NO</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1 and S200A2			ALLSLITS			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						NONE			
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	40	1	NONE	2	2	450.549	174165
	2	G395H/F290LP	S200A2	NRSRAPID	40	1	NONE	2	2	450.549	

Proposal 4668 - Observation 41 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 41: GJ576B MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy										
Diagnostics	(Visit 41:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(18)	GJ576B	RA: 15 04 57.6561 (226.2402337d) Dec: +05 38 0.85 (5.63357d) Equinox: J2000		Proper Motion RA: -607.626 mas/yr Proper Motion Dec: -506.509 mas/yr Parallax: 0.0525048" Epoch of Position: 2008.3						
	<i>Comments: position from UKIDSS LAS astrometry for primary from Gaia DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs]</i> <i>Extended=NO</i>										
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	175028		
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	5	1	1	1	1	13.875		F1000W	

Proposal 4668 - Observation 41 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165

Proposal 4668 - Observation 111 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	<p>Proposal 4668, Observation 111: HIP 70319B NIRSPEC Prism</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSPEC Fixed Slit Spectroscopy</p>										
Diagnostics	(Visit 111:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(42)	HIP70319B	RA: 14 23 20.7994 (215.8366642d) Dec: +01 16 38.34 (1.27732d) Equinox: J2000			Proper Motion RA: 222.531 mas/yr Proper Motion Dec: -478.275 mas/yr Parallax: 0.0572706" Epoch of Position: 2008.4					
	<i>Comments: position from UKIDSS LAS astrometry for primary from GAIA DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Companion stars, T subdwarfs]</i> <i>Extended=NO</i>										
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	SUB2048	F110W	NRSRAPID	3	1	1	3.628	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	80	1	NONE	4	4	504.874	174165

Proposal 4668 - Observation 112 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 112: HIP 70319B NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy											
	(Visit 112:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(42)	HIP70319B	RA: 14 23 20.7994 (215.8366642d) Dec: +01 16 38.34 (1.27732d) Equinox: J2000			Proper Motion RA: 222.531 mas/yr Proper Motion Dec: -478.275 mas/yr Parallax: 0.0572706" Epoch of Position: 2008.4						
<i>Comments: position from UKIDSS LAS astrometry for primary from GAIA DR3</i> <i>Category=Star</i> <i>Description=[Brown dwarfs, Companion stars, T subdwarfs]</i> <i>Extended=NO</i>												
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	WATA	SUB2048	F110W	NRSRAPIDD6	3	1	1	14.452	174243	
Template	HFF Readout Mode				Slit			Subarray				
	false				S200A1 and S200A2			ALLSLITS				
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern				
	1	2						NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp	#	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	50	1	1	NONE	2	2	560.429	174165
	2	G395H/F290LP	S200A2	NRSRAPID	50	1	2	NONE	2	2	560.429	

Proposal 4668 - Observation 113 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 113: HIP 70319B MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy										
Diagnostics	(Visit 113:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(42)	HIP70319B	RA: 14 23 20.7994 (215.8366642d) Dec: +01 16 38.34 (1.27732d) Equinox: J2000		Proper Motion RA: 222.531 mas/yr Proper Motion Dec: -478.275 mas/yr Parallax: 0.0572706" Epoch of Position: 2008.4						
	<i>Comments: position from UKIDSS LAS astrometry for primary from GAIA DR3 Category=Star Description=[Brown dwarfs, Companion stars, T subdwarfs] Extended=NO</i>										
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	175028		
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	5	1	1	1	1	13.875		F1000W	

Proposal 4668 - Observation 113 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165

Proposal 4668 - Observation 51 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 51: Wolf1130B NIRSPEC Prism Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(22)	Wolf1130B	RA: 20 05 19.5996 (301.3316650d) Dec: +54 24 28.40 (54.40789d) Equinox: J2000			Proper Motion RA: -1159.524 mas/yr Proper Motion Dec: -904.008 mas/yr Parallax: 0.0602958" Epoch of Position: 2016.5					
<i>Comments: coordinates from Kirkpatrick et al. (2021) astrometry from primary</i> Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	F110W	NRSRAPID	3	1	1	42.947	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1			SUBS200A1			
Dithers	#	Primary Dither Positions						Sub-Pixel Pattern			
	1	2						SPATIAL			
Spectral Elements	#	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	160	1	NONE	4	4	1003.434	174165

Proposal 4668 - Observation 52 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 52: Wolf1130B NIRSPEC 395H Diagnostic Status: Warning Observing Template: NIRSPEC Fixed Slit Spectroscopy										
	(Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(22)	Wolf1130B	RA: 20 05 19.5996 (301.3316650d) Dec: +54 24 28.40 (54.40789d) Equinox: J2000			Proper Motion RA: -1159.524 mas/yr Proper Motion Dec: -904.008 mas/yr Parallax: 0.0602958" Epoch of Position: 2016.5					
<i>Comments: coordinates from Kirkpatrick et al. (2021) astrometry from primary</i> Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] Extended=NO											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	F110W	NRSRAPID	3	1	1	42.947	174243
Template	HFF Readout Mode				Slit			Subarray			
	false				S200A1 and S200A2			ALLSLITS			
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					NONE				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	S200A1	NRSRAPID	50	1	NONE	2	2	560.429	174165
	2	G395H/F290LP	S200A2	NRSRAPID	50	1	NONE	2	2	560.429	

Proposal 4668 - Observation 53 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Wed Dec 04 23:00:36 GMT 2024

Observation	Proposal 4668, Observation 53: Wolf1130B MIRI Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy									
	(Visit 53:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(22)	Wolf1130B	RA: 20 05 19.5996 (301.3316650d) Dec: +54 24 28.40 (54.40789d) Equinox: J2000		Proper Motion RA: -1159.524 mas/yr Proper Motion Dec: -904.008 mas/yr Parallax: 0.0602958" Epoch of Position: 2016.5					
<i>Comments: coordinates from Kirkpatrick et al. (2021) astrometry from primary</i> Category=Star Description=[Brown dwarfs, Population II stars, Substellar companions, T subdwarfs] 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	175028	
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	5	1	1	1	1	13.875		F1000W

Proposal 4668 - Observation 53 - Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	100	1	2	1	2	555.008	174165