



8826 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Cycle: 4, Proposal Category: GO

INVESTIGATORS

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<i>Name</i>	<i>Institution</i>
Dr. Tyler Dean Groff (CoI)	NASA Goddard Space Flight Center

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		NIRCam Coronagraphic Imaging	(1) LP-731-58
	2		NIRCam Coronagraphic Imaging	(2) LP-368-128
	3		NIRCam Coronagraphic Imaging	(3) LP-502-56
	4		NIRCam Coronagraphic Imaging	(4) L-403-34
	5		NIRCam Coronagraphic Imaging	(5) LP-469-206
	6		NIRCam Coronagraphic Imaging	(6) G-227-22
	7		NIRCam Coronagraphic Imaging	(7) G-141-36
	8		NIRCam Coronagraphic Imaging	(8) PM-J20502-3424
	9		NIRCam Coronagraphic Imaging	(9) Ross-619
	10		NIRCam Coronagraphic Imaging	(10) G-258-33
	11		NIRCam Coronagraphic Imaging	(11) L-788-34
	12		NIRCam Coronagraphic Imaging	(12) SCR-J0740-4257
	13		NIRCam Coronagraphic Imaging	(13) Wolf-461
	14		NIRCam Coronagraphic Imaging	(14) V-GL-Vir
	15		NIRCam Coronagraphic Imaging	(15) G-13-22
	16		NIRCam Coronagraphic Imaging	(16) V-TZ-Ari
	17		NIRCam Coronagraphic Imaging	(17) G-154-44
	18		NIRCam Coronagraphic Imaging	(18) G-19-7
	19		NIRCam Coronagraphic Imaging	(19) Wolf-629
	20		NIRCam Coronagraphic Imaging	(20) V-V374-Peg
	21		NIRCam Coronagraphic Imaging	(21) G-36-24
	22		NIRCam Coronagraphic Imaging	(22) G-99-49

ABSTRACT

We propose a NIRCam coronagraphic program to discover wide-separation exoplanets and faint debris disks around an unexplored sample of 22 very nearby ($d < 10\text{pc}$) M-dwarf stars with fast stellar rotation rates indicative of youth (ages $< 1\text{ Gyr}$). To date, the outskirts of M dwarf planetary systems

remain poorly understood, with only 5 resolved debris disk detections and sparse constraints on the presence of sub-Jovian planets. Early JWST results illustrated NIRCam's unique niche for studying these systems. However, prior and ongoing JWST imaging surveys have focused on targets in young moving groups, which have typical distances of 30 pc or more. At these distances, compact M dwarf planetary systems fall largely within the noisier speckle-dominated regime — inhibiting access to any faint circumstellar sources at Solar system scales. By targeting particularly nearby stars, our program will maximize sensitivity at the expected separations of M dwarf planetesimal belts (~25 au), providing access to sub-Jovian planets and debris disks exactly where we expect them to be. Moreover, with our discoveries likely falling at wide angular separations, they will be particularly amenable to follow-up with JWST spectroscopy — promising a rich legacy of value for our understanding of both M dwarf systems and planetary systems at large.

OBSERVING DESCRIPTION

We request dual-channel NIRCam coronagraphic observations using the F200W and F444W filters with the MASK335R coronagraph. We will observe each of our 22 M dwarf targets at only a single observatory roll and without dedicated reference stars — relying instead on self-referencing for PSF subtraction. We will use the same exposure settings for every target, chosen to maximize sensitivity at wide separations: SUB320 subarray, DEEP8 readout pattern, 18 groups/int, 8 ints/exposure. This results in a total science time of ~50 minutes per target and a total science time of 18.2 hours across the program (45.1 hours charged). Our observations are requested across 5 non-interruptible sequences of 3-6 targets each to ensure that each target has at least one near-contemporaneous observation of a close spectral type match for PSF subtraction. These sequences have been reordered to eliminate unnecessary slewing.

Proposal 8826 - Targets - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	LP-731-58	RA: 10 48 12.6143 (162.0525596d) Dec: -11 20 9.61 (-11.33600d) Equinox: J2000	Proper Motion RA: 579.019 mas/yr Proper Motion Dec: -1530.0759999036018 mas/yr Parallax: 0.2193302" Epoch of Position: 2000	
<p><i>Comments: SP_TYPE: M6.5, Age: 752+/-53 Myr, Prot: 1.50 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>				
(2)	LP-368-128	RA: 09 00 23.5461 (135.0981087d) Dec: +21 50 4.90 (21.83469d) Equinox: J2000	Proper Motion RA: -514.942 mas/yr Proper Motion Dec: -592.2529999224935 mas/yr Parallax: 0.15726859999999998" Epoch of Position: 2000	
<p><i>Comments: SP_TYPE: M6.5, Age: 707+/-49 Myr, Prot: 0.44 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>				
(3)	LP-502-56	RA: 15 30 30.3278 (232.6263658d) Dec: +09 26 1.44 (9.43373d) Equinox: J2000	Proper Motion RA: -178.853 mas/yr Proper Motion Dec: 183.898 mas/yr Parallax: 0.1160425" Epoch of Position: 2000	
<p><i>Comments: SP_TYPE: M5.5, Age: 702+/-49 Myr, Prot: 0.30 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>				
(4)	L-403-34	RA: 14 03 51.5459 (210.9647746d) Dec: -42 41 53.00 (-42.69806d) Equinox: J2000	Proper Motion RA: -379.283 mas/yr Proper Motion Dec: -290.5100000816674 mas/yr Parallax: 0.10060250000000001" Epoch of Position: 2000	
<p><i>Comments: SP_TYPE: M5e, Age: 703+/-49 Myr, Prot: 0.34 days, Prot source: This work</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>				

Fixed Targets

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(5)	LP-469-206	RA: 02 16 29.8514 (34.1243808d) Dec: +13 35 12.78 (13.58688d) Equinox: J2000	Proper Motion RA: 504.216 mas/yr Proper Motion Dec: -433.1429999183456 mas/yr Parallax: 0.10995" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M5e, Age: 705+/-49 Myr, Prot: 0.39 days, Prot source: This work</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(6)	G-227-22	RA: 18 02 16.6039 (270.5691829d) Dec: +64 15 44.24 (64.26229d) Equinox: J2000	Proper Motion RA: 196.394 mas/yr Proper Motion Dec: -383.7889999658728 mas/yr Parallax: 0.1283057" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M5, Age: 701+/-49 Myr, Prot: 0.28 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(7)	G-141-36	RA: 18 48 17.5373 (282.0730721d) Dec: +07 41 21.19 (7.68922d) Equinox: J2000	Proper Motion RA: 376.042 mas/yr Proper Motion Dec: 248.719 mas/yr Parallax: 0.131279" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M5, Age: 809+/-57 Myr, Prot: 2.8 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(8)	PM-J20502-3424	RA: 20 50 16.1599 (312.5673329d) Dec: -34 24 42.60 (-34.41183d) Equinox: J2000	Proper Motion RA: 335.769 mas/yr Proper Motion Dec: -297.0360000972505 mas/yr Parallax: 0.104131" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M5e, Age: 736+/-51 Myr, Prot: 1.1 days, Prot source: This work</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			

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(9)	Ross-619	RA: 08 11 57.5692 (122.9898717d) Dec: +08 46 22.95 (8.77304d) Equinox: J2000	Proper Motion RA: 1069.812 mas/yr Proper Motion Dec: -5094.220000023597 mas/yr Parallax: 0.14772180000000001" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5e, Age: 943+/-69 Myr, Prot: 5.4 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(10)	G-258-33	RA: 18 18 57.2326 (274.7384692d) Dec: +66 11 33.30 (66.19258d) Equinox: J2000	Proper Motion RA: 434.811 mas/yr Proper Motion Dec: -442.7899999427609 mas/yr Parallax: 0.1308531" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5, Age: 698+/-49 Myr, Prot: 0.22 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(11)	L-788-34	RA: 22 23 6.9968 (335.7791533d) Dec: -17 36 26.33 (-17.60731d) Equinox: J2000	Proper Motion RA: 308.712 mas/yr Proper Motion Dec: -718.386999960785 mas/yr Parallax: 0.13822800000000002" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5e, Age: 898+/-65 Myr, Prot: 4.6 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(12)	SCR-J0740-4257	RA: 07 40 11.8072 (115.0491967d) Dec: -42 57 40.29 (-42.96119d) Equinox: J2000	Proper Motion RA: -483.458 mas/yr Proper Motion Dec: 504.77400000000006 mas/yr Parallax: 0.1253028" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5, Age: 702+/-49 Myr, Prot: 0.31 days, Prot source: This work</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			

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(13)	Wolf-461	RA: 13 00 33.5222 (195.1396758d) Dec: +05 41 8.00 (5.68556d) Equinox: J2000	Proper Motion RA: -940.63 mas/yr Proper Motion Dec: 227.75 mas/yr Parallax: 0.1170327" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5e, Age: 698+/-49 Myr, Prot: 0.21 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(14)	V-GL-Vir	RA: 12 18 59.3997 (184.7474988d) Dec: +11 07 33.77 (11.12605d) Equinox: J2000	Proper Motion RA: -1269.771 mas/yr Proper Motion Dec: 203.444 mas/yr Parallax: 0.1546999" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5e, Age: 709+/-50 Myr, Prot: 0.49 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(15)	G-13-22	RA: 12 14 16.5490 (183.5689542d) Dec: +00 37 26.36 (.62399d) Equinox: J2000	Proper Motion RA: -951.336 mas/yr Proper Motion Dec: -284.04899992438004 mas/yr Parallax: 0.123643" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5e, Age: 716+/-50 Myr, Prot: 0.65 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(16)	V-TZ-Ari	RA: 02 00 12.9563 (30.0539846d) Dec: +13 03 7.00 (13.05194d) Equinox: J2000	Proper Motion RA: 1096.458 mas/yr Proper Motion Dec: -1771.5259999931732 mas/yr Parallax: 0.2237321" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M4.5, Age: 710+/-50 Myr, Prot: 0.52 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			

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(17) G-154-44 RA: 18 07 32.8377 (271.8868237d) Proper Motion RA: -618.406 mas/yr
 Dec: -15 57 47.07 (-15.96308d) Proper Motion Dec: -347.00700000485085 mas/yr
 Equinox: J2000 Parallax: 0.1254509"
 Epoch of Position: 2000

Comments: SP_TYPE: M4e, Age: 212+/-9 Myr, Prot: 3.9 days, Prot source: Shan+2024

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Star
 Description=[M dwarfs]*

(18) G-19-7 RA: 16 57 5.7362 (254.2739008d) Proper Motion RA: 481.63 mas/yr
 Dec: -04 20 56.32 (-4.34898d) Proper Motion Dec: -376.21999999828404 mas/yr
 Equinox: J2000 Parallax: 0.1149158"
 Epoch of Position: 2000

Comments: SP_TYPE: M4, Age: 151+/-6 Myr, Prot: 1.2 days, Prot source: Shan+2024

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Star
 Description=[M dwarfs]*

(19) Wolf-629 RA: 16 55 25.2222 (253.8550925d) Proper Motion RA: -817.58 mas/yr
 Dec: -08 19 21.30 (-8.32258d) Proper Motion Dec: -898.5950000351295 mas/yr
 Equinox: J2000 Parallax: 0.15387540000000002"
 Epoch of Position: 2000

Comments: SP_TYPE: M3.5, Age: 299+/-14 Myr, Prot: 6.5 days, Prot source: Shan+2024

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Star
 Description=[M dwarfs]*

(20) V-V374-Peg RA: 22 01 13.1242 (330.3046842d) Proper Motion RA: 372.797 mas/yr
 Dec: +28 18 24.91 (28.30692d) Proper Motion Dec: 42.797 mas/yr
 Equinox: J2000 Parallax: 0.1098548"
 Epoch of Position: 2000

Comments: SP_TYPE: M3.5e, Age: 137+/-6 Myr, Prot: 0.45 days, Prot source: This work

This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.

*Category=Star
 Description=[M dwarfs]*

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(21)	G-36-24	RA: 02 33 37.1759 (38.4048996d) Dec: +24 55 37.69 (24.92714d) Equinox: J2000	Proper Motion RA: 48.392 mas/yr Proper Motion Dec: -675.7900000366135 mas/yr Parallax: 0.1001465" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M3.5e, Age: 189+/-8 Myr, Prot: 3.0 days, Prot source: This work</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			
(22)	G-99-49	RA: 06 00 3.5042 (90.0146008d) Dec: +02 42 23.59 (2.70655d) Equinox: J2000	Proper Motion RA: 309.146 mas/yr Proper Motion Dec: -40.367999963564216 mas/yr Parallax: 0.1920135" Epoch of Position: 2000
<p><i>Comments: SP_TYPE: M3.5e, Age: 137+/-6 Myr, Prot: 0.5 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i> <i>Description=[M dwarfs]</i></p>			

Proposal 8826 - Observation 1 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																																							
	<p>(Observation 1) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 1) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
Diagnosics																																								
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Proposal 8826 - Observation 1 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 2 (Filters [F200W/F444W]) Observation 6 (Filters [F200W/F444W]) Observation 10 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 1, 2, 6, 10, Non-interruptible

Proposal 8826 - Observation 2 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
Diagnostics	<p>(Observation 2) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 2) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(2)	LP-368-128	RA: 09 00 23.5461 (135.0981087d) Dec: +21 50 4.90 (21.83469d) Equinox: J2000	Proper Motion RA: -514.942 mas/yr Proper Motion Dec: -592.2529999224935 mas/yr Parallax: 0.1572685999999998" Epoch of Position: 2000						
	<p><i>Comments: SP_TYPE: M6.5, Age: 707+/-49 Myr, Prot: 0.44 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>									
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	1	SAME	F335M	FAINT	RAPID	5	1	1	0.304	219990
Template	Module		Occulting Mask		Obtain Astrometric Confirmation Images?		Subarray		Dither Pattern	
	A		MASK335R		false		SUB320A335R		NONE	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	DEEP8	18	8	1	8	2984.924	

Proposal 8826 - Observation 2 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 1 (Filters [F200W/F444W]) Observation 6 (Filters [F200W/F444W]) Observation 10 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 1, 2, 6, 10, Non-interruptible

Proposal 8826 - Observation 3 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 3</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																																								
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Proposal 8826 - Observation 3 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 4 (Filters [F200W/F444W]) Observation 5 (Filters [F200W/F444W]) Observation 16 (Filters [F200W/F444W]) Observation 18 (Filters [F200W/F444W]) Observation 19 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 3, 4, 5, 16, 18, 19, Non-interruptible

Proposal 8826 - Observation 4 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 4</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																																								
Diagnostics	<p>(Observation 4) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 4) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																								
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Proposal 8826 - Observation 4 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 3 (Filters [F200W/F444W]) Observation 5 (Filters [F200W/F444W]) Observation 16 (Filters [F200W/F444W]) Observation 18 (Filters [F200W/F444W]) Observation 19 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 3, 4, 5, 16, 18, 19, Non-interruptible

Proposal 8826 - Observation 5 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 5</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																																							
Diagnostics	<p>(Observation 5) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 5) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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Proposal 8826 - Observation 5 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 3 (Filters [F200W/F444W]) Observation 4 (Filters [F200W/F444W]) Observation 16 (Filters [F200W/F444W]) Observation 18 (Filters [F200W/F444W]) Observation 19 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 3, 4, 5, 16, 18, 19, Non-interruptible

Proposal 8826 - Observation 6 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 6</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
Diagnostics	<p>(Observation 6) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 6) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(6)	G-227-22	RA: 18 02 16.6039 (270.5691829d) Dec: +64 15 44.24 (64.26229d) Equinox: J2000	Proper Motion RA: 196.394 mas/yr Proper Motion Dec: -383.7889999658728 mas/yr Parallax: 0.1283057" Epoch of Position: 2000						
	<p><i>Comments: SP_TYPE: M5, Age: 701+/-49 Myr, Prot: 0.28 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>									
Acquisition	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	F335M	FAINT	RAPID	5	1	1	0.304	219990
Template	Module		Occulting Mask		Obtain Astrometric Confirmation Images?		Subarray		Dither Pattern	
	A		MASK335R		false		SUB320A335R		NONE	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	DEEP8	18	8	1	8	2984.924	

Proposal 8826 - Observation 6 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 1 (Filters [F200W/F444W]) Observation 2 (Filters [F200W/F444W]) Observation 10 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 1, 2, 6, 10, Non-interruptible

Proposal 8826 - Observation 7 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 7</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>									
	<p>(Observation 7) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 7) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(7)	G-141-36	RA: 18 48 17.5373 (282.0730721d) Dec: +07 41 21.19 (7.68922d) Equinox: J2000	Proper Motion RA: 376.042 mas/yr Proper Motion Dec: 248.719 mas/yr Parallax: 0.131279" Epoch of Position: 2000						
<p><i>Comments: SP_TYPE: M5, Age: 809+/-57 Myr, Prot: 2.8 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>										
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	1	SAME	F335M	FAINT	RAPID	5	1	1	0.304	219990
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	A		MASK335R		false		SUB320A335R		NONE	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	DEEP8	18	8	1	8	2984.924	

Proposal 8826 - Observation 7 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 8 (Filters [F200W/F444W]) Observation 17 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 7, 8, 17, Non-interruptible

Proposal 8826 - Observation 8 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 8</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>									
Diagnostics	<p>(Observation 8) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 8) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(8)	PM-J20502-3424	RA: 20 50 16.1599 (312.5673329d) Dec: -34 24 42.60 (-34.41183d) Equinox: J2000	Proper Motion RA: 335.769 mas/yr Proper Motion Dec: -297.0360000972505 mas/yr Parallax: 0.104131" Epoch of Position: 2000						
	<p><i>Comments: SP_TYPE: M5e, Age: 736+/-51 Myr, Prot: 1.1 days, Prot source: This work</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>									
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Template	Module		Occulting Mask		Obtain Astrometric Confirmation Images?		Subarray		Dither Pattern	
	A		MASK335R		false		SUB320A335R		NONE	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	DEEP8	18	8	1	8	2984.924	

Proposal 8826 - Observation 8 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 7 (Filters [F200W/F444W]) Observation 17 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 7, 8, 17, Non-interruptible

Proposal 8826 - Observation 9 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 9</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
	<p>(Observation 9) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 9) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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Proposal 8826 - Observation 9 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 11 (Filters [F200W/F444W]) Observation 20 (Filters [F200W/F444W]) Observation 22 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 9, 11, 20, 22, Non-interruptible

Proposal 8826 - Observation 10 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 10</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
Diagnostics	<p>(Observation 10) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 10) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(10)</td> <td>G-258-33</td> <td>RA: 18 18 57.2326 (274.7384692d) Dec: +66 11 33.30 (66.19258d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: 434.811 mas/yr Proper Motion Dec: -442.7899999427609 mas/yr Parallax: 0.1308531" Epoch of Position: 2000</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <p><i>Comments: SP_TYPE: M4.5, Age: 698+/-49 Myr, Prot: 0.22 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(10)	G-258-33	RA: 18 18 57.2326 (274.7384692d) Dec: +66 11 33.30 (66.19258d) Equinox: J2000	Proper Motion RA: 434.811 mas/yr Proper Motion Dec: -442.7899999427609 mas/yr Parallax: 0.1308531" Epoch of Position: 2000							<p><i>Comments: SP_TYPE: M4.5, Age: 698+/-49 Myr, Prot: 0.22 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>									
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(10)	G-258-33	RA: 18 18 57.2326 (274.7384692d) Dec: +66 11 33.30 (66.19258d) Equinox: J2000	Proper Motion RA: 434.811 mas/yr Proper Motion Dec: -442.7899999427609 mas/yr Parallax: 0.1308531" Epoch of Position: 2000																																					
<p><i>Comments: SP_TYPE: M4.5, Age: 698+/-49 Myr, Prot: 0.22 days, Prot source: Wright+2011</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>																																								
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Proposal 8826 - Observation 10 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 1 (Filters [F200W/F444W]) Observation 2 (Filters [F200W/F444W]) Observation 6 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 1, 2, 6, 10, Non-interruptible

Proposal 8826 - Observation 11 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 11</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
Diagnostics	<p>(Observation 11) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 11) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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Proposal 8826 - Observation 11 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 9 (Filters [F200W/F444W]) Observation 20 (Filters [F200W/F444W]) Observation 22 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 9, 11, 20, 22, Non-interruptible

Proposal 8826 - Observation 12 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 12</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
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Proposal 8826 - Observation 12 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 13 (Filters [F200W/F444W]) Observation 14 (Filters [F200W/F444W]) Observation 15 (Filters [F200W/F444W]) Observation 21 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 12, 13, 14, 15, 21, Non-interruptible

Proposal 8826 - Observation 13 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 13</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																								
Diagnostics	<p>(Observation 13) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 13) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																								
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Proposal 8826 - Observation 13 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 12 (Filters [F200W/F444W]) Observation 14 (Filters [F200W/F444W]) Observation 15 (Filters [F200W/F444W]) Observation 21 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 12, 13, 14, 15, 21, Non-interruptible

Proposal 8826 - Observation 14 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 14</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
Diagnostics	<p>(Observation 14) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 14) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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Proposal 8826 - Observation 14 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

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Special Requirements	Group Observations 12, 13, 14, 15, 21, Non-interruptible

Proposal 8826 - Observation 15 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 15</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																																								
Diagnostics	<p>(Observation 15) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 15) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																								
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Proposal 8826 - Observation 15 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

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Special Requirements	Group Observations 12, 13, 14, 15, 21, Non-interruptible

Proposal 8826 - Observation 16 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 16</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
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Proposal 8826 - Observation 16 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 3 (Filters [F200W/F444W]) Observation 4 (Filters [F200W/F444W]) Observation 5 (Filters [F200W/F444W]) Observation 18 (Filters [F200W/F444W]) Observation 19 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 3, 4, 5, 16, 18, 19, Non-interruptible

Proposal 8826 - Observation 17 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 17</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(17)	G-154-44	RA: 18 07 32.8377 (271.8868237d) Dec: -15 57 47.07 (-15.96308d) Equinox: J2000		Proper Motion RA: -618.406 mas/yr Proper Motion Dec: -347.00700000485085 mas/yr Parallax: 0.1254509" Epoch of Position: 2000					
<p><i>Comments: SP_TYPE: M4e, Age: 212+/-9 Myr, Prot: 3.9 days, Prot source: Shan+2024</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>										
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Proposal 8826 - Observation 17 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 7 (Filters [F200W/F444W]) Observation 8 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 7, 8, 17, Non-interruptible

Proposal 8826 - Observation 18 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

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Proposal 8826 - Observation 18 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 3 (Filters [F200W/F444W]) Observation 4 (Filters [F200W/F444W]) Observation 5 (Filters [F200W/F444W]) Observation 16 (Filters [F200W/F444W]) Observation 19 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 3, 4, 5, 16, 18, 19, Non-interruptible

Proposal 8826 - Observation 19 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 19</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>																																								
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Proposal 8826 - Observation 19 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 3 (Filters [F200W/F444W]) Observation 4 (Filters [F200W/F444W]) Observation 5 (Filters [F200W/F444W]) Observation 16 (Filters [F200W/F444W]) Observation 18 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 3, 4, 5, 16, 18, 19, Non-interruptible

Proposal 8826 - Observation 20 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 20</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
	<p>(Observation 20) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 20) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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Proposal 8826 - Observation 20 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 9 (Filters [F200W/F444W]) Observation 11 (Filters [F200W/F444W]) Observation 22 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 9, 11, 20, 22, Non-interruptible

Proposal 8826 - Observation 21 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 21</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
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(21)	G-36-24	RA: 02 33 37.1759 (38.4048996d) Dec: +24 55 37.69 (24.92714d) Equinox: J2000	Proper Motion RA: 48.392 mas/yr Proper Motion Dec: -675.7900000366135 mas/yr Parallax: 0.1001465" Epoch of Position: 2000																																					
<p><i>Comments: SP_TYPE: M3.5e, Age: 189+/-8 Myr, Prot: 3.0 days, Prot source: This work</i></p> <p><i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs]</i></p>																																								
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Proposal 8826 - Observation 21 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 12 (Filters [F200W/F444W]) Observation 13 (Filters [F200W/F444W]) Observation 14 (Filters [F200W/F444W]) Observation 15 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 12, 13, 14, 15, 21, Non-interruptible

Proposal 8826 - Observation 22 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

Mon Apr 14 16:00:25 GMT 2025

Observation	<p>Proposal 8826, Observation 22</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>																																							
	<p>(Observation 22) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Observation 22) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
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Proposal 8826 - Observation 22 - The Turning Tide: Discovering Unprecedented Exoplanets and Disks Around Fast-Rotating M Dwarfs

PSF References	Observation 9 (Filters [F200W/F444W]) Observation 11 (Filters [F200W/F444W]) Observation 20 (Filters [F200W/F444W]) Additional Justification: true
Special Requirements	Group Observations 9, 11, 20, 22, Non-interruptible