



# 5408 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Cycle: 3, Proposal Category: GO

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Megan Reiter (PI)</b>	<b>Rice University</b>
Dr. Jon A. Morse (CoI)	California Institute of Technology
Dr. Nathan Smith (CoI)	University of Arizona

## OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	HH 666	NIRCam Imaging	(1) HH-666
	16	Seahorse	NIRCam Imaging	(2) HH1159-HH1164
	17	HH 1005	NIRCam Imaging	(7) HH-1005
	14	G287.10-0.73	NIRCam Imaging	(15) G287.10-0.73
	15	G288.16-1.17	NIRCam Imaging	(16) G288.16-1.17
	5	Treasure Chest	NIRCam Imaging	(6) NAME-TREASURE-CHEST
	4	HH 903	NIRCam Imaging	(5) HH-903
	19	HH1010	NIRCam Imaging	(19) HH-1010
	20	HH1008	NIRCam Imaging	(20) HH-1008
	21	HH1007	NIRCam Imaging	(22) HH-1007
	22	HH1006	NIRCam Imaging	(24) HH1006
	23	central mosaic - bottom	NIRCam Imaging	(27) HH-1019
	24	Tr16 wall	NIRCam Imaging	(26) HH-900
	25	Tr14 wall	NIRCam Imaging	(25) HH-902

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	26	Mystic Mountains	NIRCam Imaging	(28) HH-901
	27	HH1013	NIRCam Imaging	(29) HH-1013

## ABSTRACT

We propose a targeted survey of the vigorously star-forming Carina Nebula that will produce the first comprehensive census of accretion and outflow activity across a wide range of protostar masses. Extrapolating from published results using JWST imaging of the neighboring region NGC3324, we expect this survey of Carina to discover ~400 new jets, producing the largest sample of outflows in any single region. At 2.3 kpc, Carina is the nearest high-mass star-forming region that fully samples the initial mass function (IMF), and where the impact of massive star feedback is on full display. We request NIRCam images of 12 regions in the F164N and F470N filters to detect [Fe II] and H<sub>2</sub> from protostellar outflows. We also request two complementary broadband filters (F150W2, F444W, respectively) to remove continuum emission. Carina represents the optimal combination of sensitivity, source density, and image quality to detect and characterize a statistical sample of outflows and, in the future, measure their proper motions. Obtaining first epoch images in Cycle 3 is essential to build on the legacy of HST which has been following the temporal evolution of this region for ~20 years (including a 3rd epoch of scheduled Cycle 31 observations). This will yield the largest sample of protostellar outflows in a single star forming region, providing a homogeneous sample of jets and outflows to: measure dynamical ages and duty cycles thereby placing important constraints on the episodic mass-loss and accretion history of a wide range of protostars; identify driving sources; and estimate mass-loss rates and therefore momentum injection into the local cloud.

## OBSERVING DESCRIPTION

We request targeted NIRCam imaging of several sites of active star formation in the Carina Nebula. In total, we expect to detect 100s of outflows.

Most fields require only a single pointing with fullbox dithers to close the gap between modules. This captures an area ~1.5 pc x 3.5 pc maximizing the discovery space. For two targets, we request small (2 point) mosaics to measure variations along and behind the most prominent and heavily irradiated dust walls.

For each pointing, we request a range of position angles that aligns the long axis of NIRCam with the major axis of the pillar to maximize coverage of the embedded sources. The large FOV also captures regions just outside the PDR, allowing us to probe high density jets in the HII region and any entrained molecular gas in the brief period where it is irradiated by not yet completely dissociated. Where possible (for the EGO targets) we have left the PA unconstrained.

Most pointings have two observable windows; only two source have only one observable window.

# Proposal 5408 - Targets - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HH-666	RA: 10 43 47.5681 (160.9482004d) Dec: -59 56 34.91 (-59.94303d) Equinox: J2000	Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>				
(2)	HH1159-HH1164	RA: 10 45 9.3000 (161.2887500d) Dec: -60 02 26.00 (-60.04056d) Equinox: J2000	Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[Evaporating gaseous globules, H II regions, Herbig-Haro objects, Protostars, Stellar jets]</p>				
(5)	HH-903	RA: 10 45 57.1729 (161.4882204d) Dec: -60 06 41.95 (-60.11165d) Equinox: J2000	Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[Herbig-Haro objects, Stellar jets]</p>				
(6)	NAME-TREASURE-CHEST	RA: 10 45 52.9899 (161.4707912d) Dec: -59 57 45.68 (-59.96269d) Equinox: J2000	Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[Herbig-Haro objects, Stellar jets]</p>				
(7)	HH-1005	RA: 10 46 42.6962 (161.6779008d) Dec: -60 11 49.25 (-60.19701d) Equinox: J2000	Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[Herbig-Haro objects, Stellar jets]</p>				
(15)	G287.10-0.73	RA: 10 41 14.3000 (160.3095833d) Dec: -59 32 39.00 (-59.54417d) Equinox: J2000		
<p><i>Comments:</i>            Category=ISM            Description=[Molecular gas, Stellar jets]</p>				
(16)	G288.16-1.17	RA: 10 47 0.6000 (161.7525000d) Dec: -60 25 35.00 (-60.42639d) Equinox: J2000		
<p><i>Comments:</i>            Category=ISM            Description=[Molecular gas, Stellar jets]</p>				
(19)	HH-1010	RA: 10 41 48.7000 (160.4529167d) Dec: -59 43 38.00 (-59.72722d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>				

Fixed Targets

## Proposal 5408 - Targets - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

(20)	HH-1008	RA: 10 44 39.7729 (161.1657204d) Dec: -59 57 51.46 (-59.96429d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>			
(22)	HH-1007	RA: 10 44 29.5000 (161.1229167d) Dec: -60 23 5.00 (-60.38472d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>			
(24)	HH1006	RA: 10 46 32.9710 (161.6373792d) Dec: -60 03 53.58 (-60.06488d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>			
(25)	HH-902	RA: 10 43 28.3349 (160.8680621d) Dec: -59 29 3.77 (-59.48438d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>			
(26)	HH-900	RA: 10 45 35.8110 (161.3992125d) Dec: -59 42 20.04 (-59.70557d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>			
(27)	HH-1019	RA: 10 43 50.6958 (160.9612325d) Dec: -59 41 50.14 (-59.69726d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Photodissociation regions, Stellar jets]</p>			
(28)	HH-901	RA: 10 44 13.5343 (161.0563929d) Dec: -59 29 0.18 (-59.48338d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Protostars, Stellar jets]</p>			
(29)	HH-1013	RA: 10 44 37.6474 (161.1568642d) Dec: -59 29 34.15 (-59.49282d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>            Category=ISM            Description=[H II regions, Protostars, Stellar jets]</p>			

Proposal 5408 - Observation 1 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 1: HH 666</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(1)	HH-666	RA: 10 43 47.5681 (160.9482004d) Dec: -59 56 34.91 (-59.94303d) Equinox: J2000		Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[H II regions, Photodissociation regions, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>		
	1	FULLBOX		6TIGHT	STANDARD			1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 70 to 110 Degrees (V3 70.07457694 to 110.07457694)									

Proposal 5408 - Observation 16 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 16: Seahorse</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Miscellaneous</b>		
	(2)	HH1159-HH1164	RA: 10 45 9.3000 (161.2887500d) Dec: -60 02 26.00 (-60.04056d) Equinox: J2000			Epoch of Position: 2015.5				
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[Evaporating gaseous globules, H II regions, Herbig-Haro objects, Protostars, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 20 to 60 Degrees (V3 20.07457694 to 60.07457694)									

Proposal 5408 - Observation 17 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 17: HH 1005</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(7)	HH-1005	RA: 10 46 42.6962 (161.6779008d) Dec: -60 11 49.25 (-60.19701d) Equinox: J2000		Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description= Herbig-Haro objects, Stellar jets </i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 70 to 110 Degrees (V3 70.07457694 to 110.07457694)									

Proposal 5408 - Observation 14 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p>Proposal 5408, Observation 14: G287.10-0.73</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(15)	G287.10-0.73	RA: 10 41 14.3000 (160.3095833d) Dec: -59 32 39.00 (-59.54417d) Equinox: J2000							
	<p><i>Comments:</i>  <i>Category=ISM</i>  <i>Description=[Molecular gas, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>		
	1	FULLBOX		6TIGHT	STANDARD			1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	

Proposal 5408 - Observation 15 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p>Proposal 5408, Observation 15: G288.16-1.17</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(16)	G288.16-1.17	RA: 10 47 0.6000 (161.7525000d)							
			Dec: -60 25 35.00 (-60.42639d)							
			Equinox: J2000							
	<p><i>Comments:</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[Molecular gas, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	

Proposal 5408 - Observation 5 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 5: Treasure Chest</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>																																							
<b>Diagnostics</b>	<p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 5:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																							
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>NAME-TREASURE-CHEST</td> <td>RA: 10 45 52.9899 (161.4707912d) Dec: -59 57 45.68 (-59.96269d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[Herbig-Haro objects, Stellar jets]</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	NAME-TREASURE-CHEST	RA: 10 45 52.9899 (161.4707912d) Dec: -59 57 45.68 (-59.96269d) Equinox: J2000	Epoch of Position: 2015.5																					
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<b>Mosaic</b>	<table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>10.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table>										Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order	2	1	10.0	10.0	0.0	0.0	DEFAULT																
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#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																															
1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404																																
2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047																																
<b>Special Requirements</b>	<p>Sequence Visits within 53.0 Days</p> <p>Aperture PA Range 40 to 80 Degrees (V3 40.07457694 to 80.07457694)</p> <p>Visits Same PA</p>																																							

Proposal 5408 - Observation 4 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 4: HH 903</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(5)	HH-903	RA: 10 45 57.1729 (161.4882204d) Dec: -60 06 41.95 (-60.11165d) Equinox: J2000		Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=Herbig-Haro objects, Stellar jets</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>		
	1	FULLBOX		6TIGHT	STANDARD			1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 70 to 110 Degrees (V3 70.07457694 to 110.07457694)									

Proposal 5408 - Observation 19 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 19: HH1010</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(19)	HH-1010	RA: 10 41 48.7000 (160.4529167d) Dec: -59 43 38.00 (-59.72722d) Equinox: J2000		Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[H II regions, Photodissociation regions, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	

Proposal 5408 - Observation 20 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 20: HH1008</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(20)	HH-1008	RA: 10 44 39.7729 (161.1657204d) Dec: -59 57 51.46 (-59.96429d) Equinox: J2000		Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[H II regions, Photodissociation regions, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 70 to 110 Degrees (V3 70.07457694 to 110.07457694)									

Proposal 5408 - Observation 21 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 21: HH1007</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(22)	HH-1007	RA: 10 44 29.5000 (161.1229167d) Dec: -60 23 5.00 (-60.38472d) Equinox: J2000		Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[H II regions, Photodissociation regions, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>		
	1	FULLBOX		6TIGHT	STANDARD			1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	

Proposal 5408 - Observation 22 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 22: HH1006</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p>									
<b>Diagnostics</b>	(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(24)	HH1006	RA: 10 46 32.9710 (161.6373792d) Dec: -60 03 53.58 (-60.06488d) Equinox: J2000		Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[H II regions, Photodissociation regions, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 70 to 110 Degrees (V3 70.07457694 to 110.07457694)									

Proposal 5408 - Observation 23 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 23: central mosaic - bottom</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p>									
<b>Diagnostics</b>	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:3) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:4) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:5) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:7) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:8) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:9) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
	(Visit 23:10) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Miscellaneous</b>		
	(27)	HH-1019	RA: 10 43 50.6958 (160.9612325d) Dec: -59 41 50.14 (-59.69726d) Equinox: J2000			Epoch of Position: 2000				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<i>Category=ISM</i>										
<i>Description=[H II regions, Photodissociation regions, Stellar jets]</i>										
<b>Template</b>	<b>Module</b>		<b>Subarray</b>				<b>Target Placement</b>			
	ALL		FULL				Module Gap			
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>			
	10	1	10.0	10.0	0.0	0.0	DEFAULT			
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	172062
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	172062

Proposal 5408 - Observation 23 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Special Requirements

Sequence Visits within 53.0 Days  
Aperture PA Range 140 to 150 Degrees (V3 140.07457694 to 150.07457694)  
Visits Same PA

Proposal 5408 - Observation 24 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<b>Proposal 5408, Observation 24: Tr16 wall</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCcam Imaging									
	(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 24:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 24:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 24:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 24:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 24:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Miscellaneous</b>		
	(26)	HH-900	RA: 10 45 35.8110 (161.3992125d) Dec: -59 42 20.04 (-59.70557d) Equinox: J2000			Epoch of Position: 2000				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                  Category=ISM                  Description=[H II regions, Photodissociation regions, Stellar jets]</i>										
<b>Template</b>	<b>Module</b>		<b>Subarray</b>				<b>Target Placement</b>			
	ALL		FULL				Module Gap			
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>			
	2	3	10.0	10.0	0.0	0.0	DEFAULT			
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>	
	1	FULLBOX		6TIGHT		STANDARD			1	
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	

Proposal 5408 - Observation 24 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Special Requirements

Sequence Visits within 53.0 Days  
Aperture PA Range 140 to 150 Degrees (V3 140.07457694 to 150.07457694)  
Visits Same PA

Proposal 5408 - Observation 25 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<b>Proposal 5408, Observation 25: Tr14 wall</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCcam Imaging									
	(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 25:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 25:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 25:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 25:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 25:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Miscellaneous</b>		
	(25)	HH-902	RA: 10 43 28.3349 (160.8680621d) Dec: -59 29 3.77 (-59.48438d) Equinox: J2000			Epoch of Position: 2000				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=ISM Description=[H II regions, Photodissociation regions, Stellar jets]										
<b>Template</b>	<b>Module</b>		<b>Subarray</b>				<b>Target Placement</b>			
	ALL		FULL				Module Gap			
<b>Mosaic</b>	<b>Rows</b>	<b>Columns</b>	<b>Row Overlap %</b>	<b>Column Overlap %</b>	<b>Row shift (deg)</b>	<b>Column shift (deg)</b>	<b>Tile Order</b>			
	2	3	10.0	10.0	0.0	0.0	DEFAULT			
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>		<b>Subpixel Positions</b>
	1	FULLBOX		6TIGHT		STANDARD				1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	

Proposal 5408 - Observation 25 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Special Requirements

Sequence Visits within 53.0 Days  
Aperture PA Range 140 to 150 Degrees (V3 140.07457694 to 150.07457694)  
Visits Same PA

Proposal 5408 - Observation 26 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 26: Mystic Mountains</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(28)	HH-901	RA: 10 44 13.5343 (161.0563929d) Dec: -59 29 0.18 (-59.48338d) Equinox: J2000		Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[H II regions, Protostars, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>		
	1	FULLBOX		6TIGHT	STANDARD			1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 140 to 150 Degrees (V3 140.07457694 to 150.07457694)									

Proposal 5408 - Observation 27 - Diving Deeper: uncovering the full spectrum of accretion and outflow in the heart of the Carina Nebula

Wed Mar 26 20:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 5408, Observation 27: HH1013</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Imaging</p>									
<b>Diagnostics</b>	(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(29)	HH-1013	RA: 10 44 37.6474 (161.1568642d) Dec: -59 29 34.15 (-59.49282d) Equinox: J2000		Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[H II regions, Protostars, Stellar jets]</i></p>									
<b>Template</b>	<b>Module</b>		<b>Subarray</b>			<b>Target Placement</b>				
	ALL		FULL			Module Gap				
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>		<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>	
	1	FULLBOX		6TIGHT		STANDARD			1	
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F164N+F150W2	F470N+F444W	SHALLOW4	8	1	6	6	2512.404	
	2	F162M+F150W2	F444W	BRIGHT2	6	1	6	6	773.047	
<b>Special Requirements</b>	Aperture PA Range 140 to 150 Degrees (V3 140.07457694 to 150.07457694)									