



4572 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Cycle: 2, Proposal Category: GO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Prof. Daryl Haggard (PI) (CSA Member)	McGill University
Dr. Joseph Neilsen (CoI) (US Admin CoI)	Villanova University
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Dr. Venkatesh Ramakrishnan (CoI) (ESA Member)	University of Turku
Dr. Geoffrey Bower (CoI)	Academia Sinica, Institute of Astronomy and Astrophysics
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Sebastiano von Fellenberg (CoI) (ESA Member)	Max-Planck-Institut fur Radioastronomie
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Dr. Steven P. Willner (CoI)	Smithsonian Institution Astrophysical Observatory
Dr. Giovanni G. Fazio (CoI)	Smithsonian Institution Astrophysical Observatory

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	GC_MIRI_full	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	2	GC_background_MIRI	MIRI Medium Resolution Spectroscopy	(5) GC-MIRI-BKGND
	3	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	4	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	5	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	6	GC_MIRI_full	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	7	GC_background_MIRI	MIRI Medium Resolution Spectroscopy	(5) GC-MIRI-BKGND
	8	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	9	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	10	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	11	GC_MIRI_full	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	12	GC_background_MIRI	MIRI Medium Resolution Spectroscopy	(5) GC-MIRI-BKGND
	13	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	14	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	15	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	16	GC_MIRI_full	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	17	GC_background_MIRI	MIRI Medium Resolution Spectroscopy	(5) GC-MIRI-BKGND
	18	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	19	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	20	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
Observation Folder				
	102	GC_background_MIRI	MIRI Medium Resolution Spectroscopy	(5) GC-MIRI-BKGND
	110	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	117	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	120	Staring mode 1	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A
	126	GC_MIRI_full	MIRI Medium Resolution Spectroscopy	(1) NAME-Sgr-A

ABSTRACT

In 2022, the EHT released the first image of the Milky Way's massive black hole, Sgr A*. Coordinated Chandra observations placed crucial constraints on its energy budget, inclination, and spin. Sgr A* is one of only two EHT sources for which the imaging quality can resolve the BH shadow and provide a close-up view of accreting plasma near the horizon. It is variable on short time scales (min to hrs) and exhibits high contrast X-ray and infrared outbursts (flares), which may be linked to hotspots orbiting near the horizon. We propose joint Chandra and JWST observations of Sgr A* during the 2024 EHT campaign to characterize the BH's variable, multi-wavelength SED, to search for orbiting hotspots during flares, to seek Sgr A*'s missing jet, and to aid priors for EHT image reconstruction.

OBSERVING DESCRIPTION

In coordination with the Chandra observations, we propose to monitor Sgr A* for four visits of 7 hrs each with the MIRI MRS integral field unit (IFU). These will probe the distribution of flux densities and spectral slopes in both “flare” and low-intensity states. We request joint observations to understand the MIR state at the time of X-ray flares—differences in MIR flares with and without an X-ray counterpart will discern between competing models for the underlying physics. Existing measures of spectral slope are limited to 1.6–4.5 μ m with sparse sampling of varying flux densities.

We will obtain a full MIRI spectrum from 5 to 28 microns of the field including Sgr A* with MIRI MRS at the beginning of the monitoring period using the conventional observing strategy with four dithers in each of three grating settings to cover the full spectral range. Observations will use the fast readout mode to avoid saturation. A single exposure in each of four dither positions will give good signal to noise. A second nearby position will be observed as a background reference field.

The majority of the time will be spent in staring mode at the shortest MIRI MRS grating setting to monitor Sgr A* and detect fluctuations in the signal. The time is divided into four epochs, each containing three staring observations that include about 7 hours of science time, simultaneous with Chandra observations. Based on previous ground-based and Spitzer observations, we expect that during the monitoring period there will be one peak or flare with an emission level of ~ 5 mJy at 5 microns, several peaks at the 2 mJy level, and many smaller fluctuations that we will be able to detect, at least at the shorter wavelengths, at higher S/N than previous observations and in a new spectral regime.

Proposal 4572 - Targets - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i>	Epoch of Position: 2000	
(5)	GC-MIRI-BKGND	RA: 17 45 42.4279 (266.4267829d) Dec: -29 00 36.72 (-29.01020d) Equinox: J2000 <i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>	Epoch of Position: 2000.0		

Proposal 4572 - Observation 1 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	<p>Proposal 4572, Observation 1: GC_MIRI_full</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p>Background Observations:[GC_background_MIRI (Obs 2), Staring mode 1 (Obs 3), Staring mode 1 (Obs 4), Staring mode 1 (Obs 5)]</p>												
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) 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=Star</i></p> <p><i>Description=[Black holes]</i></p> <p><i>Extended=NO</i></p>													
Acquisition	#	Target											
1	NONE												
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
FND	All MRS			NO		FULL		Allow Auto Reorder					
Dithers	#	Dither Type			Optimized For			Direction					
1	4-Point			POINT SOURCE			NEGATIVE						
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	
1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	
2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	
2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	
3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	
3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	

Proposal 4572 - Observation 1 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Between Dates 04-APR-2024:06:45:00 and 04-APR-2024:08:00:00

Sequence Observations 1, 2, 3, 4, 5, Non-interruptible

Proposal 4572 - Observation 2 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 2: GC_background_MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [GC_MIRI_full (Obs 1), Staring mode 1 (Obs 3), Staring mode 1 (Obs 4), Staring mode 1 (Obs 5)]												
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(5)	GC-MIRI-BKGND	RA: 17 45 42.4279 (266.4267829d) Dec: -29 00 36.72 (-29.01020d) Equinox: J2000				Epoch of Position: 2000.0						
	<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>												
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
		1	SHORT(A)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		1	SHORT(A)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		2	MEDIUM(B)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		2	MEDIUM(B)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		3	LONG(C)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		3	LONG(C)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	146144

Proposal 4572 - Observation 2 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Sequence Observations 1, 2, 3, 4, 5, Non-interruptible

Proposal 4572 - Observation 3 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 3: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 1), GC_background_MIRI (Obs 2), Staring mode 1 (Obs 4), Staring mode 1 (Obs 5)]												
	(Visit 3:1) Warning (Form): Data Excess over lower threshold (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Black holes] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	F560W	All MRS			NO			FULL		Allow Auto Reorder			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	30	85	1	None	1	85	7309.455	146144
	1	SHORT(A)	MRSSHORT		FASTR1	30	85	1	None	1	85	7309.455	146144
Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, Non-interruptible												

Proposal 4572 - Observation 4 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 4: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 1), GC_background_MIRI (Obs 2), Staring mode 1 (Obs 3), Staring mode 1 (Obs 5)]												
	(Visit 4:1) Warning (Form): Data Excess over lower threshold (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				NO			FULL		Allow Auto Reorder		
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	30	85	1	None	1	85	7309.455	146144
	1	SHORT(A)	MRSSHORT		FASTR1	30	85	1	None	1	85	7309.455	146144
Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, Non-interruptible												

Proposal 4572 - Observation 5 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 5: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 1), GC_background_MIRI (Obs 2), Staring mode 1 (Obs 3), Staring mode 1 (Obs 4)]																																																			
	(Visit 5:1) Warning (Form): Data Excess over lower threshold (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																			
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 1, 2, 3, 4, 5, Non-interruptible																																																			

Proposal 4572 - Observation 6 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	<p>Proposal 4572, Observation 6: GC_MIRI_full</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p>Background Observations:[GC_background_MIRI (Obs 7), Staring mode 1 (Obs 8), Staring mode 1 (Obs 9), Staring mode 1 (Obs 10)]</p>																																																																																																						
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																						
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>146144</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td></td> </tr> </tbody> </table>												#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005		1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005		2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005		3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005		3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
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2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005																																																																																												
3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005																																																																																												
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Proposal 4572 - Observation 6 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Between Dates 06-APR-2024:06:45:00 and 06-APR-2024:08:00:00

Sequence Observations 6, 7, 8, 9, 10, Non-interruptible

Proposal 4572 - Observation 7 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 7: GC_background_MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [GC_MIRI_full (Obs 6), Staring mode 1 (Obs 8), Staring mode 1 (Obs 9), Staring mode 1 (Obs 10)]												
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(5)	GC-MIRI-BKGND	RA: 17 45 42.4279 (266.4267829d) Dec: -29 00 36.72 (-29.01020d) Equinox: J2000				Epoch of Position: 2000.0						
	Comments: Category=Calibration Description=[Telescope/sky background]												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
		1	SHORT(A)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		1	SHORT(A)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	
		2	MEDIUM(B)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	
		2	MEDIUM(B)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	
		3	LONG(C)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	
		3	LONG(C)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	

Proposal 4572 - Observation 7 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Sequence Observations 6, 7, 8, 9, 10, Non-interruptible

Proposal 4572 - Observation 8 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	<p>Proposal 4572, Observation 8: Staring mode 1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p>Background Observations:[GC_MIRI_full (Obs 6), GC_background_MIRI (Obs 7), Staring mode 1 (Obs 9), Staring mode 1 (Obs 10)]</p>																																																			
Diagnostics	<p>(Visit 8:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 8:1) 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>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td>RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td>Epoch of Position: 2000</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=Star</i></p> <p><i>Description=[Black holes]</i></p> <p><i>Extended=NO</i></p>													#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																														
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>													#	Target	1	NONE																																			
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1	SHORT(A)	MRSSHORT		FASTR1	30	85	1	None	1	85	7309.455	146144																																								
Special Requirements	<p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Sequence Observations 6, 7, 8, 9, 10, Non-interruptible</p>																																																			

Proposal 4572 - Observation 9 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 9: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 6), GC_background_MIRI (Obs 7), Staring mode 1 (Obs 8), Staring mode 1 (Obs 10)]																																																			
	(Visit 9:1) Warning (Form): Data Excess over lower threshold (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																			
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th colspan="2">Target Coordinates</th> <th colspan="2">Targ. Coord. Corrections</th> <th colspan="6">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td colspan="2">RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td colspan="2">Epoch of Position: 2000</td> <td colspan="6"></td> </tr> <tr> <td colspan="13"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i> </td> </tr> </tbody> </table>													#	Name	Target Coordinates		Targ. Coord. Corrections		Miscellaneous						(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000		Epoch of Position: 2000								<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i>														
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th colspan="12">Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td colspan="12">NONE</td> </tr> </tbody> </table>													#	Target												1	NONE																								
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Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th colspan="2">Primary Channel</th> <th colspan="2">Simultaneous Imaging</th> <th colspan="2">Imager Subarray</th> <th colspan="5">Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td colspan="2">All MRS</td> <td colspan="2">NO</td> <td colspan="2">FULL</td> <td colspan="5">Allow Auto Reorder</td> </tr> </tbody> </table>													AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					F560W	All MRS		NO		FULL		Allow Auto Reorder																			
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 6, 7, 8, 9, 10, Non-interruptible																																																			

Proposal 4572 - Observation 10 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 10: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 6), GC_background_MIRI (Obs 7), Staring mode 1 (Obs 8), Staring mode 1 (Obs 9)]																																																			
	(Visit 10:1) Warning (Form): Data Excess over lower threshold (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																			
Diagnosics																																																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td>RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i></p>													#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																														
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																															
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>													#	Target	1	NONE																																			
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 6, 7, 8, 9, 10, Non-interruptible																																																			

Proposal 4572 - Observation 11 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	<p>Proposal 4572, Observation 11: GC_MIRI_full</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p>Background Observations:[GC_background_MIRI (Obs 12), Staring mode 1 (Obs 13), Staring mode 1 (Obs 14), Staring mode 1 (Obs 15)]</p>												
Diagnostics	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous					
(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) 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=Star</i></p> <p><i>Description=[Black holes]</i></p> <p><i>Extended=NO</i></p>													
Acquisition	#	Target											
1	NONE												
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
FND	All MRS		NO		FULL		Allow Auto Reorder						
Dithers	#	Dither Type			Optimized For			Direction					
1	4-Point			POINT SOURCE			NEGATIVE						
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005		
1	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005		
2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144	
2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005		
3	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005		
3	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005		

Proposal 4572 - Observation 11 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Between Dates 08-APR-2024:06:45:00 and 08-APR-2024:08:00:00

Sequence Observations 11, 12, 13, 14, 15, Non-interruptible

Proposal 4572 - Observation 12 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 12: GC_background_MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [GC_MIRI_full (Obs 11), Staring mode 1 (Obs 13), Staring mode 1 (Obs 14), Staring mode 1 (Obs 15)]												
Diagnostics	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(5)	GC-MIRI-BKGND	RA: 17 45 42.4279 (266.4267829d) Dec: -29 00 36.72 (-29.01020d) Equinox: J2000				Epoch of Position: 2000.0						
	<i>Comments:</i> Category=Calibration Description=[Telescope/sky background]												
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
		1	LONG(C)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	
		1	LONG(C)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	
		2	MEDIUM(B)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	
		2	MEDIUM(B)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	
		3	SHORT(A)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		3	SHORT(A)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	

Proposal 4572 - Observation 12 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Sequence Observations 11, 12, 13, 14, 15, Non-interruptible

Proposal 4572 - Observation 13 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 13: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 11), GC_background_MIRI (Obs 12), Staring mode 1 (Obs 14), Staring mode 1 (Obs 15)]																																																			
	(Visit 13:1) Warning (Form): Data Excess over lower threshold (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																			
Diagnosics																																																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td>RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>													#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																														
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Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Star Description=[Black holes] Extended=NO																																																				
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>													#	Target	1	NONE																																			
	#	Target																																																		
1	NONE																																																			
Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td>All MRS</td> <td>NO</td> <td>FULL</td> <td>Allow Auto Reorder</td> </tr> </tbody> </table>													AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction	F560W	All MRS	NO	FULL	Allow Auto Reorder																													
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 11, 12, 13, 14, 15, Non-interruptible																																																			

Proposal 4572 - Observation 14 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 14: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 11), GC_background_MIRI (Obs 12), Staring mode 1 (Obs 13), Staring mode 1 (Obs 15)]																																																			
	(Visit 14:1) Warning (Form): Data Excess over lower threshold (Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																			
Diagnosics																																																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td>RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i></p>													#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																														
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																															
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Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td>All MRS</td> <td>NO</td> <td>FULL</td> <td>Allow Auto Reorder</td> </tr> </tbody> </table>													AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction	F560W	All MRS	NO	FULL	Allow Auto Reorder																													
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>85</td> <td>1</td> <td>None</td> <td>1</td> <td>85</td> <td>7309.455</td> <td>146144</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>85</td> <td>1</td> <td>None</td> <td>1</td> <td>85</td> <td>7309.455</td> <td>146144</td> </tr> </tbody> </table>													#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SHORT(A)	MRSLONG		FASTR1	30	85	1	None	1	85	7309.455	146144	1	SHORT(A)	MRSSHORT		FASTR1	30	85	1	None	1	85	7309.455	146144
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 11, 12, 13, 14, 15, Non-interruptible																																																			

Proposal 4572 - Observation 15 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 15: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 11), GC_background_MIRI (Obs 12), Staring mode 1 (Obs 13), Staring mode 1 (Obs 14)]																						
	(Visit 15:1) Warning (Form): Data Excess over lower threshold (Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																						
Diagnosics																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td>RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i>											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																		
(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																				
Acquisition	#	Target																					
	1	NONE																					
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction													
	F560W	All MRS			NO			FULL		Allow Auto Reorder													
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkblk.Calc ID										
	1	SHORT(A)	MRSLONG		FASTR1	30	85	1	None	1	85	7309.455	146144										
	1	SHORT(A)	MRSSHORT		FASTR1	30	85	1	None	1	85	7309.455	146144										
Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 11, 12, 13, 14, 15, Non-interruptible																						

Proposal 4572 - Observation 16 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 16: GC_MIRI_full Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_background_MIRI (Obs 17), Staring mode 1 (Obs 18), Staring mode 1 (Obs 19), Staring mode 1 (Obs 20)]												
	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000			Epoch of Position: 2000							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[Black holes] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	1	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	

Proposal 4572 - Observation 16 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Between Dates 09-APR-2024:06:45:00 and 09-APR-2024:08:00:00

Sequence Observations 16, 17, 18, 19, 20, Non-interruptible

Proposal 4572 - Observation 17 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 17: GC_background_MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [GC_MIRI_full (Obs 16), Staring mode 1 (Obs 18), Staring mode 1 (Obs 19), Staring mode 1 (Obs 20)]												
Diagnostics	(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(5)	GC-MIRI-BKGND	RA: 17 45 42.4279 (266.4267829d) Dec: -29 00 36.72 (-29.01020d) Equinox: J2000				Epoch of Position: 2000.0						
	<i>Comments:</i> Category=Calibration Description=[Telescope/sky background]												
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
		1	LONG(C)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	
		1	LONG(C)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	
		2	MEDIUM(B)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	
		2	MEDIUM(B)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	
		3	SHORT(A)	MRSLONG	FASTR1	30	1	1	Dither 1	4	4	333.005	146144
		3	SHORT(A)	MRSSHORT	FASTR1	30	1	1	Dither 1	4	4	333.005	

Proposal 4572 - Observation 17 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Sequence Observations 16, 17, 18, 19, 20, Non-interruptible

Proposal 4572 - Observation 18 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 18: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 16), GC_background_MIRI (Obs 17), Staring mode 1 (Obs 19), Staring mode 1 (Obs 20)]																																																			
	(Visit 18:1) Warning (Form): Data Excess over lower threshold (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																			
Diagnosics																																																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td>RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Black holes]</i> <i>Extended=NO</i></p>													#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																														
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																															
(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																																																	
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Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td>All MRS</td> <td>NO</td> <td>FULL</td> <td>Allow Auto Reorder</td> </tr> </tbody> </table>													AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction	F560W	All MRS	NO	FULL	Allow Auto Reorder																													
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1	SHORT(A)	MRSSHORT		FASTR1	30	85	1	None	1	85	7309.455	146144																																								
Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 16, 17, 18, 19, 20, Non-interruptible																																																			

Proposal 4572 - Observation 19 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 19: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 16), GC_background_MIRI (Obs 17), Staring mode 1 (Obs 18), Staring mode 1 (Obs 20)]																																																			
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 16, 17, 18, 19, 20, Non-interruptible																																																			

Proposal 4572 - Observation 20 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 20: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_MIRI_full (Obs 16), GC_background_MIRI (Obs 17), Staring mode 1 (Obs 18), Staring mode 1 (Obs 19)]																																																			
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Proposal 4572 - Observation 102 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 102: GC_background_MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [Staring mode 1 (Obs 110), Staring mode 1 (Obs 117), Staring mode 1 (Obs 120), GC_MIRI_full (Obs 126)]																																																																																																						
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Proposal 4572 - Observation 102 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Between Dates 2024.250:19:30 and 2024.250:20:30

Sequence Observations 102, 110, 117, 120, 126, Non-interruptible

Proposal 4572 - Observation 110 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 110: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_background_MIRI (Obs 102), Staring mode 1 (Obs 117), Staring mode 1 (Obs 120), GC_MIRI_full (Obs 126)]																																																			
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 102, 110, 117, 120, 126, Non-interruptible																																																			

Proposal 4572 - Observation 117 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 117: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_background_MIRI (Obs 102), Staring mode 1 (Obs 110), Staring mode 1 (Obs 120), GC_MIRI_full (Obs 126)]																																																			
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 102, 110, 117, 120, 126, Non-interruptible																																																			

Proposal 4572 - Observation 120 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 120: Staring mode 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_background_MIRI (Obs 102), Staring mode 1 (Obs 110), Staring mode 1 (Obs 117), GC_MIRI_full (Obs 126)]																																																			
	(Visit 120:1) Warning (Form): Data Excess over lower threshold (Visit 120:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																			
Diagnosics																																																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-Sgr-A</td> <td>RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>													#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000	Epoch of Position: 2000																														
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Special Requirements	Time Series Observation No Parallel Attachments Sequence Observations 102, 110, 117, 120, 126, Non-interruptible																																																			

Proposal 4572 - Observation 126 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Wed Aug 28 21:00:11 GMT 2024

Observation	Proposal 4572, Observation 126: GC_MIRI_full Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[GC_background_MIRI (Obs 102), Staring mode 1 (Obs 110), Staring mode 1 (Obs 117), Staring mode 1 (Obs 120)]												
	(Visit 126:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(1)	NAME-Sgr-A	RA: 17 45 40.0360 (266.4168167d) Dec: -29 00 28.17 (-29.00783d) Equinox: J2000		Epoch of Position: 2000								
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Star Description=[Black holes] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
	FND	All MRS		NO		FULL		Allow Auto Reorder					
Dithers	#	Dither Type			Optimized For				Direction				
	1	4-Point			POINT SOURCE				NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144
	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	146144
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	146144
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	146144
	3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	146144

Proposal 4572 - Observation 126 - Spacetime & Spectra: Joint Chandra/JWST/EHT Observations of Sgr A* (re-observations)

Special Requirements

Sequence Observations 102, 110, 117, 120, 126, Non-interruptible