



4560 - Exposures for detector bias test in support of AR-4593

Cycle: 2, Proposal Category: ENG

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. David R. Law (CoI) (CoPI) (Contact)	Space Telescope Science Institute
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Dr. Ioannis Argyriou (CoI) (ESA Member)	Institute of Astronomy, KU Leuven

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Part 1: Cal Lamp Exposures for AR-4593				
	1	Nominal Bias (+2.2 V bias)	MIRI External Flat	(2) SEP-blank
	2	Vdetcom = -4.35 V (+2.45 V bias)	MIRI External Flat	(2) SEP-blank
	3	Vdetcom = -4.6 V (+2.7 V bias)	MIRI External Flat	(2) SEP-blank
	4	Vdetcom = -5.1 V (+3.2 V bias)	MIRI External Flat	(2) SEP-blank
	5	Nominal Bias (+2.2 V bias)	MIRI External Flat	(2) SEP-blank
Part 2: SMP LMC 058 Exposures for AR-4593				
	11	Nominal Bias (+2.2 V bias)	MIRI Medium Resolution Spectroscopy	(3) LHA-120-N-133
	12	Vdetcom = -4.35 V (+2.45 V bias)	MIRI Medium Resolution Spectroscopy	(3) LHA-120-N-133
	13	Vdetcom = -4.6 V (+2.7 V bias)	MIRI Medium Resolution Spectroscopy	(3) LHA-120-N-133

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	14	Nominal Bias (+2.2 V bias)	MIRI Medium Resolution Spectroscopy	(3) LHA-120-N-133

ABSTRACT

These observations support the AR4593 root cause investigation, in particular the detector bias test specified in OSCR CR-3392.

These observations will be run with OSCR CR-3392. After each visit (except the last) there will be a stop after visit to allow the VDETCOM value to be changed.

In Part 1, there are 5 visits using the internal cal lamps corresponding to the different bias settings:- [-4.1 V (nom), -4.35 V, -4.6 V, -5.1 V, -4.1 V (nom)].

On completion CR-3329 will be used to re-set Vdetcom to the nominal -4.1 V then the OP for a MIRI, 3 detector anneal will be run.

In Part 2, the planetary nebula SMP LMC 058 (a standard MIRI target) will be observed to check the full spectral response at the proposed new bias voltage plus one higher bias to ensure that the bias behavior is fully as expected. Part 2 will not be executed until Part 1 is analyzed and root cause is confirmed.

OBSERVING DESCRIPTION

Cal source illuminated exposures to support the bias variation test as part of the AR4593 investigation.

These observations will be run with OSCR CR-3392. After each visit (except the last) there will be a STOP AFTER VISIT to allow the VDETCOM value to be changed before the next observation.

There are 5 visits in Part 1 corresponding to the different bias settings:-

- Obs 1 Nominal bias

Use CR-3329 to Change Vdetcom to -4.35 V

- re-start OP and run Obs 2

Use CR-3329 to Change Vdetcom to -4.6 V

- re-start OP and run Obs 3

JWST Proposal 4560 (Created: Monday, October 2, 2023 at 1:00:11 PM Eastern Standard Time) - Overview

Use CR-3329 to Change Vdetcom to -5.1 V

- re-start OP and run Obs 4

Use CR-3329 to Change Vdetcom back to -4.1 V

- re-start OP and run Obs 5

After Obs 5, the OP for a MIRI 3 detector anneal will be run.

There are 4 visits in Part 2 corresponding to the narrowed bias settings (to be set specifically after the results of Part 1 are analyzed):-

- Obs 11 Nominal bias

Use CR-3329 to Change Vdetcom to -4.35 V (TBR)

- re-start OP and run Obs 12

Use CR-3329 to Change Vdetcom to -4.6 V (TBR)

- re-start OP and run Obs 13

Use CR-3329 to Change Vdetcom back to -4.1 V

- re-start OP and run Obs 14

After Obs 14, the OP for a MIRI 3 detector anneal will be run.

Proposal 4560 - Targets - Exposures for detector bias test in support of AR-4593

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
	(1)	NEP-blank	RA: 18 00 0.0000 (270.0000000d) Dec: +66 28 0.00 (66.46667d) Equinox: J2000	Epoch of Position: 2000		
	<i>Comments: Relatively blank patch of sky near the NEP. No known "interesting" objects in the field.</i> Category=Calibration Description=[Telescope/sky background]					
	(2)	SEP-blank	RA: 05 59 58.3550 (89.9931458d) Dec: -66 33 25.94 (-66.55721d) Equinox: J2000			
<i>Comments: Relatively blank patch of sky near the SEP. No known "interesting" objects in the field.</i> Category=Calibration Description=[Telescope/sky background]						
(3)	LHA-120-N-133	RA: 05 24 20.7467 (81.0864446d) Dec: -70 05 1.60 (-70.08378d) Equinox: J2000	Proper Motion RA: 1.767 mas/yr Proper Motion Dec: 0.245 mas/yr Epoch of Position: 2000			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Planetary nebulae]						

Proposal 4560 - Observation 1 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	<p>Proposal 4560, Observation 1: Nominal Bias (+2.2 V bias)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI External Flat</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				
	(2)	SEP-blank	RA: 05 59 58.3550 (89.9931458d) Dec: -66 33 25.94 (-66.55721d) Equinox: J2000										
	<p><i>Comments: Relatively blank patch of sky near the SEP. No known "interesting" objects in the field.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Telescope/sky background]</i></p>												
Template	Pointing Type	Detector	Dither	Lamp Use	Lamp On Time	Imager Subarray	Grating Wheel Direction						
	PRIME	ALL	false	ON ONLY	945	FULL	NEUTRAL						
Spectral Elements	#	Detector	Filter	Wavelength 1 & 4	Wavelength 2 & 3	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGER	F1500W			FASTR1	30	1	1	1	1	83.251	
	1	MRSLONG		MEDIUM(B)	MEDIUM(B)	FASTR1	30	1	1	1	1	83.251	
	1	MRSSHORT		MEDIUM(B)	MEDIUM(B)	FASTR1	30	1	1	1	1	83.251	
	2	IMAGER	F2550W			FASTR1	30	1	1	1	1	83.251	
	2	MRSLONG		LONG(C)	LONG(C)	FASTR1	30	1	1	1	1	83.251	
	2	MRSSHORT		LONG(C)	LONG(C)	FASTR1	30	1	1	1	1	83.251	
Special Requirements	No Parallel Attachments												

Proposal 4560 - Observation 2 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	<p>Proposal 4560, Observation 2: Vdetcom = -4.35 V (+2.45 V bias)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI External Flat</p>																																																															
Diagnostics	<p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																																															
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Special Requirements	<p>No Parallel Attachments</p>																																																															

Proposal 4560 - Observation 3 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	<p>Proposal 4560, Observation 3: Vdetcom = -4.6 V (+2.7 V bias)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI External Flat</p>												
Diagnostics	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(2)	SEP-blank	RA: 05 59 58.3550 (89.9931458d) Dec: -66 33 25.94 (-66.55721d) Equinox: J2000										
	<p><i>Comments: Relatively blank patch of sky near the SEP. No known "interesting" objects in the field.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Telescope/sky background]</i></p>												
Template	Pointing Type	Detector	Dither	Lamp Use	Lamp On Time	Imager Subarray	Grating Wheel Direction						
	PRIME	ALL	false	ON ONLY	945	FULL	NEUTRAL						
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	1	IMAGER	F1500W			FASTR1	30	1	1	1	1	83.251	
	1	MRSLONG		MEDIUM(B)	MEDIUM(B)	FASTR1	30	1	1	1	1	83.251	
	1	MRSSHORT		MEDIUM(B)	MEDIUM(B)	FASTR1	30	1	1	1	1	83.251	
	2	IMAGER	F2550W			FASTR1	30	1	1	1	1	83.251	
	2	MRSLONG		LONG(C)	LONG(C)	FASTR1	30	1	1	1	1	83.251	
	2	MRSSHORT		LONG(C)	LONG(C)	FASTR1	30	1	1	1	1	83.251	
Special Requirements	No Parallel Attachments												

Proposal 4560 - Observation 4 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	<p>Proposal 4560, Observation 4: Vdetcom = -5.1 V (+3.2 V bias)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI External Flat</p>																																																															
Diagnostics	<p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																																															
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Special Requirements	<p>No Parallel Attachments</p>																																																															

Proposal 4560 - Observation 5 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	<p>Proposal 4560, Observation 5: Nominal Bias (+2.2 V bias)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI External Flat</p>												
Diagnostics	<p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(2)	SEP-blank	RA: 05 59 58.3550 (89.9931458d) Dec: -66 33 25.94 (-66.55721d) Equinox: J2000										
	<p><i>Comments: Relatively blank patch of sky near the SEP. No known "interesting" objects in the field.</i></p> <p><i>Category=Calibration</i></p> <p><i>Description=[Telescope/sky background]</i></p>												
Template	Pointing Type	Detector	Dither	Lamp Use	Lamp On Time	Imager Subarray	Grating Wheel Direction						
	PRIME	ALL	false	ON ONLY	484	FULL	NEUTRAL						
Spectral Elements	#	Detector	Filter	Wavelength 1 & 4	Wavelength 2 & 3	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGER	F1500W			FASTR1	30	1	1	1	1	83.251	
	1	MRSLONG		MEDIUM(B)	MEDIUM(B)	FASTR1	30	1	1	1	1	83.251	
	1	MRSSHORT		MEDIUM(B)	MEDIUM(B)	FASTR1	30	1	1	1	1	83.251	
Special Requirements	<p>No Parallel Attachments</p>												

Proposal 4560 - Observation 11 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	Proposal 4560, Observation 11: Nominal Bias (+2.2 V bias) Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Nominal Bias (+2.2 V bias) (Obs 11)) Warning (Form): Imager Filter overlap. (Nominal Bias (+2.2 V bias) (Obs 11)) Warning (Form): Imager Filter overlap. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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Proposal 4560 - Observation 11 - Exposures for detector bias test in support of AR-4593

Special Requirements

Sequence Observations 11, 12, 13, 14 within 1 Days

Proposal 4560 - Observation 12 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	Proposal 4560, Observation 12: Vdetcom = -4.35 V (+2.45 V bias) Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
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Proposal 4560 - Observation 12 - Exposures for detector bias test in support of AR-4593

Special Requirements

Sequence Observations 11, 12, 13, 14 within 1 Days

Proposal 4560 - Observation 13 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	Proposal 4560, Observation 13: Vdetcom = -4.6 V (+2.7 V bias) Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
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Proposal 4560 - Observation 13 - Exposures for detector bias test in support of AR-4593

Special Requirements

Sequence Observations 11, 12, 13, 14 within 1 Days

Proposal 4560 - Observation 14 - Exposures for detector bias test in support of AR-4593

Mon Oct 02 18:00:11 GMT 2023

Observation	Proposal 4560, Observation 14: Nominal Bias (+2.2 V bias) Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
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Proposal 4560 - Observation 14 - Exposures for detector bias test in support of AR-4593

Special Requirements

Sequence Observations 11, 12, 13, 14 within 1 Days