



## 6610 - CAL-MIRI-300 MIRI CCC-Closed Darks

Cycle: 3, Proposal Category: CAL/MIRI

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Mike Engesser (PI)</b>	<b>Space Telescope Science Institute</b>
Dr. Michael W. Regan (CoI)	Space Telescope Science Institute
Dr. Boris Trahin (CoI)	Space Telescope Science Institute
Dr. Alberto Noriega-Crespo (CoI)	Space Telescope Science Institute
Dr. Greg Sloan (CoI)	Space Telescope Science Institute

### OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
CCC Closed Darks All Detectors				
	1	SLOWR1 All Detectors	MIRI Dark	NONE
	2	FASTR1 All Detectors	MIRI Dark	NONE
CCC Closed Darks All Detectors				
	3	SLOWR1 All Detectors	MIRI Dark	NONE
	4	FASTR1 All Detectors	MIRI Dark	NONE
CCC Closed Darks All Detectors				
	5	SLOWR1 All Detectors	MIRI Dark	NONE
	6	FASTR1 All Detectors	MIRI Dark	NONE
CCC Closed Darks All Detectors				
	7	SLOWR1 All Detectors	MIRI Dark	NONE
	8	FASTR1 All Detectors	MIRI Dark	NONE
CCC Closed Darks All Detectors				
	9	SLOWR1 All Detectors	MIRI Dark	NONE
	10	FASTR1 All Detectors	MIRI Dark	NONE

## **ABSTRACT**

The objective of this program is to obtain CCC-Closed darks in order to update the Dark Current reference files for FULL frame Imager and the MRS detectors in SLOWR1 and FASTR1, and to exercise the CCC.

This calibration program may change in response to system developments and the final Cycle 3 science program.

## **OBSERVING DESCRIPTION**

Cycle 2 showed that we can obtain higher-quality Imager darks by allowing the persistence from idle to decay prior to the first dark exposure. As we await data from CAL-MIRI-301 to determine the best method for subtracting the dark current, we choose to obtain 5 exposures in SLOWR1 and FASTR1 for the Full frame in all 3 detectors. We exclude subarrays to optimize absolute calibration of the FULL frame in the interim.

As in CAL-MIRI-200, we schedule the FASTR1 Imager darks after allowing the persistence to decay, however in this case we opt to put the SLOWR1 darks with all detectors first as the MRS detectors are less affected by the persistence, and the readout mode is used overall less often for the Imager.

We plan the observations with no timing constraints as these must be obtained as prime, which is to our benefit as we wish to exercise the CCC more often.

We will obtain CCC-Closed Darks with all three detectors with the same exposure parameters as in previous cycles. We opt for 5 pairs of observations with the SLOWR1 darks for all detectors first, followed by FASTR1.

Proposal 6610 - Observation 1 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 1: SLOWR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(SLOWR1 All Detectors (Obs 1)) Warning (Form): NO SLEW Risk</p> <p>(SLOWR1 All Detectors (Obs 1)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, Non-interruptible</p>																																												

Proposal 6610 - Observation 2 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 2: FASTR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(FASTR1 All Detectors (Obs 2)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 All Detectors (Obs 2)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew</p> <p>Special Commanding No Slew</p> <p>Sequence Observations 1, 2, Non-interruptible</p>																																												

Proposal 6610 - Observation 3 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 3: SLOWR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
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<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 3, 4, Non-interruptible</p>																																												

Proposal 6610 - Observation 4 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 4: FASTR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(FASTR1 All Detectors (Obs 4)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 All Detectors (Obs 4)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew</p> <p>Special Commanding No Slew</p> <p>Sequence Observations 3, 4, Non-interruptible</p>																																												

Proposal 6610 - Observation 5 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 5: SLOWR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(SLOWR1 All Detectors (Obs 5)) Warning (Form): NO SLEW Risk</p> <p>(SLOWR1 All Detectors (Obs 5)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 5, 6, Non-interruptible</p>																																												

Proposal 6610 - Observation 6 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 6: FASTR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(FASTR1 All Detectors (Obs 6)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 All Detectors (Obs 6)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew</p> <p>Special Commanding No Slew</p> <p>Sequence Observations 5, 6, Non-interruptible</p>																																												

Proposal 6610 - Observation 7 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 7: SLOWR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(SLOWR1 All Detectors (Obs 7)) Warning (Form): NO SLEW Risk</p> <p>(SLOWR1 All Detectors (Obs 7)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 7, 8, Non-interruptible</p>																																												

Proposal 6610 - Observation 8 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 8: FASTR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(FASTR1 All Detectors (Obs 8)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 All Detectors (Obs 8)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 7, 8, Non-interruptible</p>																																												

Proposal 6610 - Observation 9 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 9: SLOWR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(SLOWR1 All Detectors (Obs 9)) Warning (Form): NO SLEW Risk</p> <p>(SLOWR1 All Detectors (Obs 9)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 9, 10, Non-interruptible</p>																																												

Proposal 6610 - Observation 10 - CAL-MIRI-300 MIRI CCC-Closed Darks

Fri May 17 08:00:09 GMT 2024

<b>Observation</b>	<p><b>Proposal 6610, Observation 10: FASTR1 All Detectors</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(FASTR1 All Detectors (Obs 10)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 All Detectors (Obs 10)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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