



## 4482 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Cycle: 2, Proposal Category: CAL/MIRI

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Michael W. Regan (PI)</b>	<b>Space Telescope Science Institute</b>
Mike Engesser (CoI)	Space Telescope Science Institute
Dr. Jane Morrison (CoI)	University of Arizona
Greg Sloan (CoI) (Contact)	Space Telescope Science Institute
Macarena Garcia Marin (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Dr. Alberto Noriega-Crespo (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	FASTR1 MRS	MIRI Dark	NONE
	2	FASTR1 MRS	MIRI Dark	NONE
	3	FASTR1 Imager	MIRI Dark	NONE
	4	FASTR1 Imager	MIRI Dark	NONE
	5	FASTR1 BRIGHTSKY	MIRI Dark	NONE
	6	FASTR1 SUB256	MIRI Dark	NONE
	7	FASTR1 SUB128	MIRI Dark	NONE
	8	FASTR1 SUB64	MIRI Dark	NONE
	9	FASTR1 SLITLESSPR ISM	MIRI Dark	NONE
	10	FASTR1 MASK1065	MIRI Dark	NONE
	11	FASTR1 MASK1140	MIRI Dark	NONE
	12	FASTR1 MASK1550	MIRI Dark	NONE

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	13	FASTR1 MASKLYOT	MIRI Dark	NONE
	14	SLOWR1 All Detectors	MIRI Dark	NONE

## **ABSTRACT**

This activity will obtain calibration data for all three MIRI detectors during Cycle 2 to address known issues in the calibration of the dark current. Cycle 1 revealed that the dark rate varied on inconsistent timescales and amplitudes. Our current understanding indicates that this is due to persistence from sky and telescope background when the instrument is left in a configuration with one of the longer wavelength filters in the pupil. These data will also serve to monitor any temporal changes in the dark current, and be used to flag new hot, dead, and high-noise pixels for the bad-pixel mask. The activity will produce a full suite of data including simultaneous data from the full imager detector and the two MRS detectors with the contamination control cover (CCC) closed.

This APT file includes the CCC-closed Darks for Cycle 2. CAL-MIRI-201 contains the CCC-open darks.

This calibration program may change in response to system developments and the final Cycle 2 science program.

Edit 29-06-23: Updated program to remove the EXPOSE ONLY requirements due to an issue with OSS not giving the command to close the CCC. Also updated the SLITLESSPRISM observation to new parameters following analyses by Jeroen Bowman and Jane Morrison.

Edit2 29-06-23: Updated Special Requirements to indicate Exclusive Use of Instrument, to allow the CCC to stay closed following the MRS exposures.

## **OBSERVING DESCRIPTION**

This version of CAL-MIRI-200 contains one set of observations (of a planned five). The data will be taken as prime, and this program is likely to be modified as a result of that first set of observations, most likely with additional observations.

Observations are constrained to be executed in the first six weeks of Cycle 2.

CCC must be CLOSED for these observations. Once they are scheduled, the CCC will need to be commanded closed before they start and open once they conclude.

Edit 05-July-23:

The purpose of this program is to undertake a series of MIRI Darks with the CCC closed for Cal cycle 2: Obs 1&2 are MRS darks, Obs 3-13 Imager Darks and Obs 14 ALL detector dark.

Normally the MRS Darks and the ALL Darks close the CCC at the beginning and then open it again at completion of the visit. There has been an APT update which will allow consecutive visits identified as 'SEQ-Exclusive Use of Instrument' to be grouped and to skip the CCC operations until the CCC opening at the end of the last visit in the sequence.

Although the Imager Darks do not normally close the CCC, it is intended in this program that it will remain closed during these visits. This is achieved through the 'SEQ-Exclusive Use of Instrument' grouping and by book-ending the imager visits between Darks that do operate the CCC; Obs 1 & Obs 14.

Proposal 4482 - Observation 1 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 1: FASTR1 MRS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																						
<b>Diagnostics</b>	<p>(FASTR1 MRS (Obs 1)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 MRS (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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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																														
1	MRSLONG	FASTR1	250	2	1	2	1390.295																																
1	MRSSHORT	FASTR1	250	2	1	2	1390.295																																
<b>Special Requirements</b>	<p>Before Date 15-AUG-2023</p> <p>No Slew</p> <p>Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																																						

Proposal 4482 - Observation 2 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 2: FASTR1 MRS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																			
<b>Diagnostics</b>	<p>(FASTR1 MRS (Obs 2)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 MRS (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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1	MRSSHORT	FASTR1	250	2	1	2	1390.295																													
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																																			

Proposal 4482 - Observation 3 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p>Proposal 4482, Observation 3: FASTR1 Imager</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																										
<b>Diagnostics</b>	<p>(FASTR1 Imager (Obs 3)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 Imager (Obs 3)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																										
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1	IMAGER	FASTR1	250	2	1	2	1390.295																				
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																										

Proposal 4482 - Observation 4 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

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<b>Observation</b>	<p>Proposal 4482, Observation 4: FASTR1 Imager</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 Imager (Obs 4)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 Imager (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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1	IMAGER	FASTR1	250	2	1	2	1390.295																						
<b>Special Requirements</b>	<p>No Slew</p> <p>Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 5 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 5: FASTR1 BRIGHTSKY</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>								
<b>Diagnostics</b>	<p>(FASTR1 BRIGHTSKY (Obs 5)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 BRIGHTSKY (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>								
<b>Template</b>	<b>Detector</b>	<b>Test Pattern</b>				<b>Imager Subarray</b>			
	IMAGER	NONE				BRIGHTSKY			
<b>Spectral Elements</b>	<b>#</b>	<b>Detector</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	IMAGER	FASTR1	150	5	1	5	652.421	
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>								

Proposal 4482 - Observation 6 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

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<b>Observation</b>	<p>Proposal 4482, Observation 6: FASTR1 SUB256</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 SUB256 (Obs 6)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 SUB256 (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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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																				
1	IMAGER	FASTR1	400	5	1	5	600.238																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 7 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

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<b>Observation</b>	<p><b>Proposal 4482, Observation 7: FASTR1 SUB128</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 SUB128 (Obs 7)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 SUB128 (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>																												
<b>Template</b>	<table border="1"> <thead> <tr> <th>Detector</th> <th>Test Pattern</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>IMAGER</td> <td>NONE</td> <td>SUB128</td> </tr> </tbody> </table>			Detector	Test Pattern	Imager Subarray	IMAGER	NONE	SUB128																				
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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																				
1	IMAGER	FASTR1	450	5	1	5	268.316																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 8 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 8: FASTR1 SUB64</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 SUB64 (Obs 8)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 SUB64 (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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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																				
1	IMAGER	FASTR1	600	5	1	5	255.7																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 9 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

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<b>Observation</b>	<p><b>Proposal 4482, Observation 9: FASTR1 SLITLESSPRISM</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																						
<b>Diagnostics</b>	<p>(FASTR1 SLITLESSPRISM (Obs 9)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 SLITLESSPRISM (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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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																														
1	IMAGER	FASTR1	100	15	1	15	240.787																																
2	IMAGER	FASTR1	20	15	1	15	49.939																																
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																																						

Proposal 4482 - Observation 10 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 10: FASTR1 MASK1065</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 MASK1065 (Obs 10)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 MASK1065 (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>																												
<b>Template</b>	<table border="1"> <thead> <tr> <th>Detector</th> <th>Test Pattern</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>IMAGER</td> <td>NONE</td> <td>MASK1065</td> </tr> </tbody> </table>			Detector	Test Pattern	Imager Subarray	IMAGER	NONE	MASK1065																				
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IMAGER	NONE	MASK1065																											
<b>Spectral Elements</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Detector</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC</th> <th>Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>IMAGER</td> <td>FASTR1</td> <td>1250</td> <td>5</td> <td>1</td> <td>5</td> <td>1498.959</td> <td></td> <td></td> </tr> </tbody> </table>									#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID	1	IMAGER	FASTR1	1250	5	1	5	1498.959		
#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																				
1	IMAGER	FASTR1	1250	5	1	5	1498.959																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 11 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 11: FASTR1 MASK1140</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 MASK1140 (Obs 11)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 MASK1140 (Obs 11)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																												
<b>Template</b>	<table border="1"> <thead> <tr> <th>Detector</th> <th>Test Pattern</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>IMAGER</td> <td>NONE</td> <td>MASK1140</td> </tr> </tbody> </table>			Detector	Test Pattern	Imager Subarray	IMAGER	NONE	MASK1140																				
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1	IMAGER	FASTR1	1250	5	1	5	1498.959																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 12 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 12: FASTR1 MASK1550</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 MASK1550 (Obs 12)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 MASK1550 (Obs 12)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																												
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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																				
1	IMAGER	FASTR1	1250	5	1	5	1498.959																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 13 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p><b>Proposal 4482, Observation 13: FASTR1 MASKLYOT</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																												
<b>Diagnostics</b>	<p>(FASTR1 MASKLYOT (Obs 13)) Warning (Form): NO SLEW Risk</p> <p>(FASTR1 MASKLYOT (Obs 13)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																												
<b>Template</b>	<table border="1"> <thead> <tr> <th>Detector</th> <th>Test Pattern</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>IMAGER</td> <td>NONE</td> <td>MASKLYOT</td> </tr> </tbody> </table>			Detector	Test Pattern	Imager Subarray	IMAGER	NONE	MASKLYOT																				
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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC	Wkbk.Calc ID																				
1	IMAGER	FASTR1	1250	5	1	5	2026.296																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																												

Proposal 4482 - Observation 14 - CAL-MIRI-200 MIRI Dark Current (CCC-closed)

Wed Jul 05 20:01:41 GMT 2023

<b>Observation</b>	<p>Proposal 4482, Observation 14: SLOWR1 All Detectors</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Dark</p>																																												
<b>Diagnostics</b>	<p>(SLOWR1 All Detectors (Obs 14)) Warning (Form): NO SLEW Risk</p> <p>(SLOWR1 All Detectors (Obs 14)) Warning (Form): PARALLEL requirement expected.</p> <p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																												
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#	Detector	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																					
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1	MRSLONG	SLOWR1	25	2	1	2	1218.386																																						
1	MRSSHORT	SLOWR1	25	2	1	2	1218.386																																						
<b>Special Requirements</b>	<p>No Slew Special Commanding No Slew</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, Non-interruptible, Exclusive Use Of Instrument</p>																																												