



12560 - CAL-NIS-502: NIRISS Subarray Darks

Cycle: 5, Proposal Category: CAL/NIRISS

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Rachel Cooper (PI)	Space Telescope Science Institute
Dr. Andre Martel (CoI)	Space Telescope Science Institute
Dr. Kevin Volk (CoI) (CSA Member)	Space Telescope Science Institute - CSA - JWST

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		NIRISS Dark	NONE
	2		NIRISS Dark	NONE
	3		NIRISS Dark	NONE
	4		NIRISS Dark	NONE
	5		NIRISS Dark	NONE
	6		NIRISS Dark	NONE
	7		NIRISS Dark	NONE
	8		NIRISS Dark	NONE
	9		NIRISS Dark	NONE
	10		NIRISS Dark	NONE
	11		NIRISS Dark	NONE
	12		NIRISS Dark	NONE
	13		NIRISS Dark	NONE
	14		NIRISS Dark	NONE
	15		NIRISS Dark	NONE
	16		NIRISS Dark	NONE

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	17		NIRISS Dark	NONE
	18		NIRISS Dark	NONE
	19		NIRISS Dark	NONE
	20		NIRISS Dark	NONE

ABSTRACT

Dark exposures are taken in the different science subarrays to produce the pipeline reference files for these read-out patterns. There are 4 sets of observations with 3 months between sets.

This calibration program is provisional and may change in response to system developments and the final Cycle 5 science program.

OBSERVING DESCRIPTION

We request time to take a series of NIRISS subarray darks in parallel to monitor the characteristics of the NIRISS detector in the science subarrays. Analysis of the observations will provide measurements of the dark signal, the specific noise properties in these configurations, and the bad pixels in the array. The observations will be used to update the pipeline dark reference files as needed.

Observations 1 to 5, 6 to 10, 11 to 15, and 16 to 20 constitute the four sets of observations. Each set has a nominal 1 month window, separated by a gap of 2 months. If the observations cannot be scheduled in the 1 month window then they can be rescheduled in the 2 month gap.

Additional subarray darks in the SOSS superstripe modes will also be needed, but cannot be defined in the current APT version. These will need to be added to the program roughly in May when the APT is updated.

Proposal 12560 - Observation 1 - CAL-NIS-502: NIRISS Subarray Darks

Mon Mar 09 18:01:43 GMT 2026

Observation	<p>Proposal 12560, Observation 1 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBSTRIP256	NISRAPID	30	30	30	5110.034	
Special Requirements	<p>Between Dates 01-JUL-2026:00:00:00 and 01-AUG-2026:00:00:00 Parallel</p>							

Proposal 12560 - Observation 2 - CAL-NIS-502: NIRISS Subarray Darks

Mon Mar 09 18:01:43 GMT 2026

Observation	<p>Proposal 12560, Observation 2 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBSTRIP96	NISRAPID	30	30	30	2059.634	
Special Requirements	<p>Between Dates 01-JUL-2026:00:00:00 and 01-AUG-2026:00:00:00 Parallel</p>							

Proposal 12560 - Observation 3 - CAL-NIS-502: NIRISS Subarray Darks

Mon Mar 09 18:01:43 GMT 2026

Observation	<p>Proposal 12560, Observation 3</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRISS Dark</p>																
Diagnostics	<p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Subarray</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SUB80</td> <td>NISRAPID</td> <td>50</td> <td>469</td> <td>469</td> <td>1814.054</td> <td></td> </tr> </tbody> </table>	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	1	SUB80	NISRAPID	50	469	469	1814.054	
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1	SUB80	NISRAPID	50	469	469	1814.054											
Special Requirements	<p>Between Dates 01-JUL-2026:00:00:00 and 01-AUG-2026:00:00:00</p> <p>Parallel</p>																

Proposal 12560 - Observation 4 - CAL-NIS-502: NIRISS Subarray Darks

Mon Mar 09 18:01:43 GMT 2026

Observation	<p>Proposal 12560, Observation 4 Diagnostic Status: Warning Observing Template: NIRISS Dark</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>Between Dates 01-JUL-2026:00:00:00 and 01-AUG-2026:00:00:00 Parallel</p>																							

Proposal 12560 - Observation 5 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 5 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBTASOSS	NISRAPID	19	30	30	27.914	
Special Requirements	<p>Between Dates 01-JUL-2026:00:00:00 and 01-AUG-2026:00:00:00 Parallel</p>							

Proposal 12560 - Observation 6 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 6 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBSTRIP256	NISRAPID	30	30	30	5110.034	
Special Requirements	<p>Between Dates 01-OCT-2026:00:00:00 and 01-NOV-2026:00:00:00 Parallel</p>							

Proposal 12560 - Observation 7 - CAL-NIS-502: NIRISS Subarray Darks

Mon Mar 09 18:01:43 GMT 2026

Observation	<p>Proposal 12560, Observation 7 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBSTRIP96	NISRAPID	30	30	30	2059.634	
Special Requirements	<p>Between Dates 01-OCT-2026:00:00:00 and 01-NOV-2026:00:00:00 Parallel</p>							

Proposal 12560 - Observation 8 - CAL-NIS-502: NIRISS Subarray Darks

Mon Mar 09 18:01:43 GMT 2026

Observation	<p>Proposal 12560, Observation 8 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUB80	NISRAPID	50	469	469	1814.054	
Special Requirements	<p>Between Dates 01-OCT-2026:00:00:00 and 01-NOV-2026:00:00:00 Parallel</p>							

Proposal 12560 - Observation 9 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 9 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																							
Diagnostics	<p>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																							
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Special Requirements	<p>Between Dates 01-OCT-2026:00:00:00 and 01-NOV-2026:00:00:00 Parallel</p>																							

Proposal 12560 - Observation 10 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 10 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBTASOSS	NISRAPID	19	30	30	27.914	
Special Requirements	<p>Between Dates 01-OCT-2026:00:00:00 and 01-NOV-2026:00:00:00 Parallel</p>							

Proposal 12560 - Observation 11 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 11 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBSTRIP256	NISRAPID	30	30	30	5110.034	
Special Requirements	<p>Between Dates 01-JAN-2027:00:00:00 and 01-FEB-2027:00:00:00 Parallel</p>							

Proposal 12560 - Observation 12 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 12 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>							
Diagnostics	<p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>							
Spectral Elements	#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	SUBSTRIP96	NISRAPID	30	30	30	2059.634	
Special Requirements	<p>Between Dates 01-JAN-2027:00:00:00 and 01-FEB-2027:00:00:00 Parallel</p>							

Proposal 12560 - Observation 13 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 13 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																							
Diagnostics	<p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																							
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Special Requirements	<p>Between Dates 01-JAN-2027:00:00:00 and 01-FEB-2027:00:00:00 Parallel</p>																							

Proposal 12560 - Observation 14 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 14 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																							
Diagnostics	<p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																							
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Proposal 12560 - Observation 15 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 15 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																							
Diagnostics	<p>(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																							
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Special Requirements	<p>Between Dates 01-JAN-2027:00:00:00 and 01-FEB-2027:00:00:00 Parallel</p>																							

Proposal 12560 - Observation 16 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 16 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																							
Diagnostics	<p>(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																							
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Special Requirements	<p>Between Dates 01-APR-2027:00:00:00 and 01-MAY-2027:00:00:00 Parallel</p>																							

Proposal 12560 - Observation 17 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 17 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																							
Diagnostics	<p>(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																							
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Proposal 12560 - Observation 18 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 18 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																
Diagnostics	<p>(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																
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Special Requirements	<p>Between Dates 01-APR-2027:00:00:00 and 01-MAY-2027:00:00:00 Parallel</p>																

Proposal 12560 - Observation 19 - CAL-NIS-502: NIRISS Subarray Darks

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Observation	<p>Proposal 12560, Observation 19 Diagnostic Status: Warning Observing Template: NIRISS Dark</p>																							
Diagnostics	<p>(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																							
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Subarray</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SUBTAAMI</td> <td>NISRAPID</td> <td>19</td> <td>30</td> <td>30</td> <td>27.914</td> <td></td> </tr> </tbody> </table>								#	Subarray	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	1	SUBTAAMI	NISRAPID	19	30	30	27.914	
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Special Requirements	<p>Between Dates 01-APR-2027:00:00:00 and 01-MAY-2027:00:00:00 Parallel</p>																							

Proposal 12560 - Observation 20 - CAL-NIS-502: NIRISS Subarray Darks

Mon Mar 09 18:01:43 GMT 2026

Observation	<p>Proposal 12560, Observation 20</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRISS Dark</p>																
Diagnostics	<p>(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																
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