



# 1539 - Absolute Flux Calibration (Repeatability)ision

Cycle: 1, Proposal Category: CAL/CROSS

## INVESTIGATORS

| <i>Name</i>                    | <i>Institution</i>                             |
|--------------------------------|--|
| <b>Dr. Karl D. Gordon (PI)</b> | <b>Space Telescope Science Institute</b>       |
| Dr. Martha L. Boyer (CoI)      | Space Telescope Science Institute              |
| Dr. James Muzerolle (CoI)      | Space Telescope Science Institute              |
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| Dr. Kevin Volk (CoI)           | Space Telescope Science Institute - CSA - JWST |

## OBSERVATIONS

| <i>Folder</i>                  | <i>Observation</i> | <i>Label</i>    | <i>Observing Template</i>                  | <i>Science Target</i> |
|--------------------------------|--------------------|-----------------|--|-----------------------|
| BD +60 1753 (epoch 1)          |                    |                 |  |                       |
|                                | 9                  | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                                | 8                  | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                                | 3                  | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                                | 2                  | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                                | 4                  | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 2)          |                    |                 |  |                       |
|                                | 19                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                                | 20                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                                | 21                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                                | 22                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                                | 23                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 2 - repeat) |                    |                 |  |                       |
|                                | 74                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                                | 75                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |

JWST Proposal 1539 (Created: Friday, March 3, 2023 at 3:00:34 PM Eastern Standard Time) - Overview

| <i>Folder</i>           | <i>Observation</i> | <i>Label</i>    | <i>Observing Template</i>                  | <i>Science Target</i> |
|-------------------------|--------------------|-----------------|--|-----------------------|
|                         | 76                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                         | 77                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                         | 78                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 3)   |                    |                 |  |                       |
|                         | 24                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                         | 25                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                         | 26                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                         | 27                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                         | 28                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 4)   |                    |                 |  |                       |
|                         | 29                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                         | 30                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                         | 31                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                         | 32                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                         | 33                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 5)   |                    |                 |  |                       |
|                         | 34                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                         | 35                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                         | 36                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                         | 37                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                         | 38                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 5.5) |                    |                 |  |                       |
|                         | 167                | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                         | 168                | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 6)   |                    |                 |  |                       |
|                         | 39                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                         | 40                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                         | 41                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                         | 42                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                         | 43                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 7)   |                    |                 |  |                       |
|                         | 44                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |

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| <i>Folder</i>          | <i>Observation</i> | <i>Label</i>    | <i>Observing Template</i>                  | <i>Science Target</i> |
|------------------------|--------------------|-----------------|--|-----------------------|
|                        | 45                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                        | 46                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                        | 47                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                        | 48                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 8)  |                    |                 |  |                       |
|                        | 49                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                        | 50                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                        | 51                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                        | 52                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                        | 53                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 9)  |                    |                 |  |                       |
|                        | 54                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                        | 55                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                        | 56                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                        | 57                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                        | 58                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| BD +60 1753 (epoch 10) |                    |                 |  |                       |
|                        | 59                 | NIRCam Module A | NIRCam Engineering Imaging                 | (1) BD+60-1753        |
|                        | 60                 | NIRCam Module B | NIRCam Imaging                             | (1) BD+60-1753        |
|                        | 61                 | NIRSpec         | NIRSpec Fixed Slit Spectroscopy            | (1) BD+60-1753        |
|                        | 62                 | NIRISS SOSS     | NIRISS Single-Object Slitless Spectroscopy | (1) BD+60-1753        |
|                        | 63                 | MIRI Imaging    | MIRI Imaging                               | (1) BD+60-1753        |
| HD 163466              |                    |                 |  |                       |
|                        | 6                  | MIRI MRS 1      | MIRI Medium Resolution Spectroscopy        | (3) HD163466          |
|                        | 64                 | MIRI MRS 1 BKG  | MIRI Medium Resolution Spectroscopy        | (4) HD163466-BKG      |
|                        | 10                 | MIRI MRS 2      | MIRI Medium Resolution Spectroscopy        | (3) HD163466          |
|                        | 65                 | MIRI MRS 2 BKG  | MIRI Medium Resolution Spectroscopy        | (4) HD163466-BKG      |
|                        | 13                 | MIRI MRS 5      | MIRI Medium Resolution Spectroscopy        | (3) HD163466          |
|                        | 68                 | MIRI MRS 5 BKG  | MIRI Medium Resolution Spectroscopy        | (4) HD163466-BKG      |
|                        | 14                 | MIRI MRS 6      | MIRI Medium Resolution Spectroscopy        | (3) HD163466          |
|                        | 69                 | MIRI MRS 6 BKG  | MIRI Medium Resolution Spectroscopy        | (4) HD163466-BKG      |
|                        | 15                 | MIRI MRS 7      | MIRI Medium Resolution Spectroscopy        | (3) HD163466          |

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| <i>Folder</i> | <i>Observation</i> | <i>Label</i>    | <i>Observing Template</i>           | <i>Science Target</i> |
|---------------|--------------------|-----------------|-------------------------------------|-----------------------|
|               | 70                 | MIRI MRS 7 BKG  | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |
|               | 16                 | MIRI MRS 8      | MIRI Medium Resolution Spectroscopy | (3) HD163466          |
|               | 71                 | MIRI MRS 8 BKG  | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |
|               | 17                 | MIRI MRS 9      | MIRI Medium Resolution Spectroscopy | (3) HD163466          |
|               | 72                 | MIRI MRS 9 BKG  | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |
|               | 18                 | MIRI MRS 10     | MIRI Medium Resolution Spectroscopy | (3) HD163466          |
|               | 73                 | MIRI MRS 10 BKG | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |
|               | 110                | MIRI MRS 2      | MIRI Medium Resolution Spectroscopy | (3) HD163466          |
|               | 165                | MIRI MRS 2 BKG  | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |
|               | 11                 | MIRI MRS 3      | MIRI Medium Resolution Spectroscopy | (3) HD163466          |
|               | 66                 | MIRI MRS 3 BKG  | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |
|               | 12                 | MIRI MRS 4      | MIRI Medium Resolution Spectroscopy | (3) HD163466          |
|               | 67                 | MIRI MRS 4 BKG  | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |
|               | 113                | MIRI MRS 5      | MIRI Medium Resolution Spectroscopy | (3) HD163466          |
|               | 268                | MIRI MRS 5 BKG  | MIRI Medium Resolution Spectroscopy | (4) HD163466-BKG      |

**ABSTRACT**

This program obtains repeated observations of two stars as part of the JWST absolute flux calibration effort. This effort uses all JWST instruments to provide absolute flux calibration for all JWST modes (filters, gratings, etc). The combined nature of this effort is to ensure the highest quality flux calibration internal to and between instruments and to carry out the observations efficiently. This program provides observations of two stars spread throughout the year to measure the repeatability of JWST observations. The aim is to observe in one filter/grating/etc per detector to measure how repeatable an observation is in instrument units. The expectation is that the repeatability is set at the detector level.

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

**OBSERVING DESCRIPTION**

The objective of this program is to observe the same star with identical observing parameters with a regular cadence through Cycle 1 to monitor the repeatability of detectors, instrument modes, and the telescope.

**TIMING CONSTRAINTS**

Timing constraints assume a launch of 25 Dec 2021 and a start for Cycle 1 on 23 Jun 2022.

The cadence should be one epoch per month, with the exception of the brief period of invisibility for each target.

BD +60 1753 will be unobservable from 27 Sep to 31 Dec 2022.

HD 163466 will be unobservable from 5 Nov 2022 to 18 Jan 2023.

Observations are grouped by target, with 2 series of 10 epochs each.

The first epoch for both series should be in the first week of Cycle 1. This timing is critical to establishing baseline data for all future calibration comparisons as soon as science observations begin.

Epochs are then scheduled every 30 days as long as the targets are visible. Constraints are set relative to the first epoch of Cycle 1 for each target. The 7-day windows for each epoch are meant to give schedulers some flexibility, but the closer to a regular cadence we can achieve, the better for monitoring. It is important that all epochs scheduled before the targets becomes unschedulable (Sep and Nov 2022) be completed before that happens.

The schedule recommences for each target as soon as they become visible again, starting with a 7-day window, with subsequent epochs constrained relative to the return epoch for each target.

For BD+60, the five observations in each epoch are grouped with the constraint that they be observed within a day of each other.

In the event of a change in launch date and/or a change in the start of Cycle 1, the time constraints will need to be adjusted for observations 9 and 34 (for BD+60) and observations 6 and 14 (for HD 163466). For a delay of more than 30 days, the observation numbers associated with the return epoch (currently 14 and 34) will have to be changed.

Proposal 1539 - Targets - Absolute Flux Calibration (Repeatability)ision

| #   | Name   | Target Coordinates  | Targ. Coord. Corrections   | Miscellaneous   |  |
|---|--|---|--|---|--|
| (1)   | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |   |  |
| <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p>  |  |   |  |   |  |
| (2)   | 2MASSJ17244630+6025483   | RA: 17 24 46.3000 (261.1929167d)<br>Dec: +60 25 48.30 (60.43008d)<br>Equinox: J2000 |  |   |  |
| <p><i>Comments: Offset star for TA for BD+60; coordinates need to be cross-referenced with Gaia to ensure sufficient relative astrometric accuracy.</i><br/> <i>Category=Star</i><br/> <i>Description=[G stars]</i><br/> <i>Extended=NO</i></p> |  |   |  |   |  |
| Fixed Targets   | (3)  | HD163466  | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000                                  | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |  |
|   | <p><i>Comments: Coordinates from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p> |   |  |   |  |
|   | (4)  | HD163466-BKG  | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000                                  | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |  |
|   | <p><i>Comments: Coordinates from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p> |   |  |   |  |
| (5)   | 2MASSJ17244630+6025483-copy  | RA: 17 24 46.3338 (261.1930575d)<br>Dec: +60 25 48.16 (60.43004d)<br>Equinox: J2000 | Proper Motion RA: 10.005 mas/yr<br>Proper Motion Dec: -13.718 mas/yr<br>Epoch of Position: 2016                      |   |  |
| <p><i>Comments: Version with corrected coordinates and proper motions from Gaia DR3</i><br/> <i>Category=Star</i><br/> <i>Description=[G stars]</i><br/> <i>Extended=NO</i></p>   |  |   |  |   |  |

Proposal 1539 - Observation 9 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--------------------------|--|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 9: NIRCcam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Engineering Imaging</p> |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>             |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>  |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|                          | A  |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|                          | 1  | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|                          | 1  | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 9 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 02-JUL-2022:00:00:00 and 30-JUL-2022:00:00:00  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 2, 3, 4, 8, 9, Non-interruptible

Proposal 1539 - Observation 8 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                            |   |                         |  |                         |                           |                           |                            |                         |
|---|---|----------------------------|---|-------------------------|--|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 8: NIRCam Module B</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCam Imaging |                            |   |                         |  |                         |                           |                           |                            |                         |
|   | (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                                     |                            |   |                         |  |                         |                           |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                         | <b>Targ. Coord. Corrections</b>  |                         | <b>Miscellaneous</b>      |                           |                            |                         |
|   | (1)   | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                         |                           |                           |                            |                         |
| <i>Comments: Coordinates are from Gaia DR2<br/>Category=Star<br/>Description=[A dwarfs]<br/>Extended=NO</i> |   |                            |   |                         |  |                         |                           |                           |                            |                         |
| <b>Template</b>   | <b>Module</b>   |                            | <b>Subarray</b>   |                         |  | <b>Target Placement</b> |                           |                           |                            |                         |
|   | B   |                            | SUB160  |                         |  | Module Gap              |                           |                           |                            |                         |
| <b>Mosaic</b>   | <b>Rows</b>   | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>   | <b>Column shift</b>     | <b>Tile Order</b>         |                           |                            |                         |
|   | 1   | 2                          | 10.0  | 25.0                    | 0.0  | 0.0                     | DEFAULT                   |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b>  |                         | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |
|   | 1   | INTRAMODULEBOX             |   | 2                       | STANDARD   |                         |                           | 2                         |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Short Filter</b>        | <b>Long Filter</b>  | <b>Readout Pattern</b>  | <b>Groups/Int</b>  | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   | F212N                      | F470N+F444W   | RAPID                   | 5  | 1                       | 4                         | 4                         | 6.708                      |                         |

## Proposal 1539 - Observation 8 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 2, 3, 4, 8, 9, Non-interruptible

Proposal 1539 - Observation 3 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|---|---------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 3: NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>                     | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)   | BD+60-1753                      | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i>                           |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>  | <b>Target</b>                   | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | 2<br>2MASSJ1724463<br>0+6025483 | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>   |                                 |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1   |                                 |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Primary Dither Positions</b> |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1   | 5                               |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Grating/Filter</b>           | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | G140H/F100LP                    | S1600A1   | NRSRAPID               | 10                | 1  | NONE                     | 5                       | 5                         | 49.712                     |                         |

Proposal 1539 - Observation 3 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 2, 3, 4, 8, 9, Non-interruptible

Proposal 1539 - Observation 2 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |                 |   |                  |  |                         |                     |                    |                     |                  |
|-----------------------------|--|-----------------|---|------------------|--|-------------------------|---------------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p><b>Proposal 1539, Observation 2: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p> |                 |   |                  |  |                         |                     |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                 |   |                  |  |                         |                     |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name            | Target Coordinates  |                  | Targ. Coord. Corrections   |                         |                     | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753      | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                         |                     |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>                       |                 |   |                  |  |                         |                     |                    |                     |                  |
| <b>Acquisition</b>          | #  | Target          | Acquisition Mode  | Filter           | Readout Pattern  | Groups/Int              | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | SAME            | SOSSFAINT   | F480M            | NISRAPID   | 9                       | 1                   | 1                  | 0.475               | 23135            |
| <b>Template</b>             | Subarray   |                 |   |                  |  | Include F277W Exposure? |                     |                    |                     |                  |
|                             | SUBSTRIP256  |                 |   |                  |  | false                   |                     |                    |                     |                  |
| <b>Spectral Elements</b>    | #  | Readout Pattern | Groups/Int  | Integrations/Exp | Total Dithers  | Total Integrations      | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |
|                             | 1  | NISRAPID        | 5   | 4                | 1  | 4                       | 131.938             |                    |                     |                  |
| <b>Special Requirements</b> | <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 2, 3, 4, 8, 9, Non-interruptible</p>   |                 |   |                  |  |                         |                     |                    |                     |                  |

Proposal 1539 - Observation 4 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
|-----------------------------|--|--------------------|---|-------------------------|-------------------------|--|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>          | <p><b>Proposal 1539, Observation 4: MIRI Imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>        |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>          | (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>        | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>   |                         |                         | <b>Targ. Coord. Corrections</b>  |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                             | (1)  | BD+60-1753         | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                         | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                       |                      |                           |                            |                         |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Template</b>             | <p><b>Subarray</b></p> <p>SUB256</p>   |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Dithers</b>              | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>   | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>  | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                             | 1  | 4-Point-Sets       |   |                         |                         | 1  | 1                     | POINT SOURCE         | POSITIVE                  | DEFAULT                    |                         |
| <b>Spectral Elements</b>    | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>  | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                             | 1  | F770W              | FASTR1  | 14                      | 1                       | 1  | Dither 1              | 4                    | 4                         | 16.773                     |                         |
| <b>Special Requirements</b> | Group Observations 2, 3, 4, 8, 9, Non-interruptible  |                    |   |                         |                         |  |                       |                      |                           |                            |                         |

Proposal 1539 - Observation 19 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--------------------------|---|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 19: NIRCam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Engineering Imaging</p> |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)   | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>            |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>   |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|                          | A   |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>   | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|                          | 1   | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|                          | 1   | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 19 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 15-AUG-2022 and 28-AUG-2022  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 19, 20, 21, 22, 23, Non-interruptible

Proposal 1539 - Observation 20 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                            |   |  |                             |                         |                           |                      |                            |                         |
|--------------------------|--|----------------------------|---|--|-----------------------------|-------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <b>Proposal 1539, Observation 20: NIRCcam Module B</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCcam Imaging |                            |   |  |                             |                         |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                                       |                            |   |  |                             |                         |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   | <b>Targ. Coord. Corrections</b>  |                             |                         | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                             |                         |                           |                      |                            |                         |
|                          | <i>Comments: Coordinates are from Gaia DR2<br/>Category=Star<br/>Description=[A dwarfs]<br/>Extended=NO</i>                        |                            |   |  |                             |                         |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>  |                            | <b>Subarray</b>   |  |                             | <b>Target Placement</b> |                           |                      |                            |                         |
|                          | B  |                            | SUB160  |  |                             | Module Gap              |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b>  | <b>Row shift</b>            | <b>Column shift</b>     | <b>Tile Order</b>         |                      |                            |                         |
|                          | 1  | 2                          | 10.0  | 25.0   | 0.0                         | 0.0                     | DEFAULT                   |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Type</b> | <b>Primary Dithers</b>  |  | <b>Subpixel Dither Type</b> | <b>Dither Size</b>      | <b>Subpixel Positions</b> |                      |                            |                         |
|                          | 1  | INTRAMODULEBOX             | 2   |  | STANDARD                    |                         | 2                         |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>  | <b>Readout Pattern</b>   | <b>Groups/Int</b>           | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F212N                      | F470N+F444W   | RAPID  | 5                           | 1                       | 4                         | 4                    | 6.708                      |                         |

Proposal 1539 - Observation 20 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 19, 20, 21, 22, 23, Non-interruptible

Proposal 1539 - Observation 21 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|---------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 21: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                     | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                      | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p>                           |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                   | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 2<br>2MASSJ1724463<br>0+6025483 | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                 |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                 |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b> |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                               |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>           | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                    | S1600A1   | NRSRAPID               | 10                | 1  | 1                        | NONE                    | 5                         | 5                          | 49.712                  |

Proposal 1539 - Observation 21 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 19, 20, 21, 22, 23, Non-interruptible

Proposal 1539 - Observation 22 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>  | <p><b>Proposal 1539, Observation 22: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
|---|---|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--|----------|---|---|---|-------|-------|---|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>  | (Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td colspan="3">Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i> </td> </tr> </tbody> </table> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |          |   |   |   |       |       | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |  |  |  |  |  |  |  |  |
| #   | Name  | Target Coordinates  | Targ. Coord. Corrections   |                 |                    | Miscellaneous       |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| (1)   | BD+60-1753  | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M  | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |   |  |  |  |  |  |  |  |  |  |
| #   | Target  | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | SAME  | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| Subarray  | Include F277W Exposure?   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256   | false   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4  | 131.938  |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| #   | Readout Pattern   | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | NISRAPID  | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>   | <p>Time Series Observation<br/>No Parallel Attachments</p> <p>Group Observations 19, 20, 21, 22, 23, Non-interruptible</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 23 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 23: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 19, 20, 21, 22, 23, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 74 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|  |  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--|--|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>   | <b>Proposal 1539, Observation 74: NIRCam Module A</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCam Engineering Imaging |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|  | (Visit 74:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>   | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|  | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
| <i>Comments: Coordinates are from Gaia DR2<br/>                 Category=Star<br/>                 Description=[A dwarfs]<br/>                 Extended=NO</i> |  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>  | <b>Module</b>  |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|  | A  |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>  | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|  | 1  | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>   | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|  | 1  | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b>   | <b>#</b>   | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|  | 1  | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 74 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 15-AUG-2022 and 04-SEP-2022:00:00:00  
Offset 2.8 arcsec, -0.3 arcsec  
Group Observations 74, 75, 76, 77, 78, Non-interruptible

Proposal 1539 - Observation 75 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|  |  |                            |   |                         |                             |  |                           |                           |                            |                         |  |
|--|--|----------------------------|---|-------------------------|-----------------------------|--|---------------------------|---------------------------|----------------------------|-------------------------|--|
| <b>Observation</b>                             | <b>Proposal 1539, Observation 75: NIRCcam Module B</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCcam Imaging |                            |   |                         |                             |  |                           |                           |                            |                         |  |
|  | (Visit 75:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                                       |                            |   |                         |                             |  |                           |                           |                            |                         |  |
| <b>Fixed Targets</b>                           | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                           | <b>Miscellaneous</b>      |                            |                         |  |
|  | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                           |                           |                            |                         |  |
| <i>Comments: Coordinates are from Gaia DR2</i> |  |                            |   |                         |                             |  |                           |                           |                            |                         |  |
| <i>Category=Star</i>                           |  |                            |   |                         |                             |  |                           |                           |                            |                         |  |
| <i>Description=[A dwarfs]</i>                  |  |                            |   |                         |                             |  |                           |                           |                            |                         |  |
| <i>Extended=NO</i>                             |  |                            |   |                         |                             |  |                           |                           |                            |                         |  |
| <b>Template</b>                                | <b>Module</b>  |                            | <b>Subarray</b>   |                         |                             |  | <b>Target Placement</b>   |                           |                            |                         |  |
|  | B  |                            | SUB160  |                         |                             |  | Module Gap                |                           |                            |                         |  |
| <b>Mosaic</b>                                  | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>         |                           |                            |                         |  |
|  | 1  | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT                   |                           |                            |                         |  |
| <b>Dithers</b>                                 | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |  |
|  | 1  | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                           | 2                         |                            |                         |  |
| <b>Spectral Elements</b>                       | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>  | <b>Readout Pattern</b>  | <b>Groups/Int</b>           | <b>Integrations/Exp</b>  | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |  |
|  | 1  | F212N                      | F470N+F444W   | RAPID                   | 5                           | 1  | 4                         | 4                         | 6.708                      |                         |  |

Proposal 1539 - Observation 75 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 74, 75, 76, 77, 78, Non-interruptible

Proposal 1539 - Observation 76 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|---------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 76: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | <p>(Visit 76:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                     | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                      | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p>                           |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                   | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 2<br>2MASSJ1724463<br>0+6025483 | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                 |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                 |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b> |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                               |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>           | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                    | S1600A1   | NRSRAPID               | 10                | 1  | NONE                     | 5                       | 5                         | 49.712                     |                         |

Proposal 1539 - Observation 76 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 74, 75, 76, 77, 78, Non-interruptible

Proposal 1539 - Observation 77 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>  | <p><b>Proposal 1539, Observation 77: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>  |   |                                |                                 |                    |                           |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
|---|--|---|--------------------------------|---------------------------------|--------------------|---------------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--------------------------------|---------------------------------|--------------------|---------------------------|---|-------|-------|---|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>  | (Visit 77:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |                                |                                 |                    |                           |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 3.981 mas/yr</td> <td>Proper Motion Dec: 1.809 mas/yr</td> <td>Parallax: 0.00197"</td> <td colspan="4">Epoch of Position: 2000.0</td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i> </td> </tr> </tbody> </table> |   |                                |                                 |                    |                           |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr | Proper Motion Dec: 1.809 mas/yr | Parallax: 0.00197" | Epoch of Position: 2000.0 |   |       |       | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |  |  |  |  |  |  |  |  |
| #   | Name   | Target Coordinates  | Targ. Coord. Corrections       |                                 |                    | Miscellaneous             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| (1)   | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr | Proper Motion Dec: 1.809 mas/yr | Parallax: 0.00197" | Epoch of Position: 2000.0 |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |   |                                |                                 |                    |                           |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>   |   |                                |                                 |                    |                           |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M                          | NISRAPID                        | 9                  | 1                         | 1 | 0.475 | 23135 |   |  |  |  |  |  |  |  |  |  |
| #   | Target   | Acquisition Mode  | Filter                         | Readout Pattern                 | Groups/Int         | Integrations/Exp          | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | SAME   | SOSSFAINT   | F480M                          | NISRAPID                        | 9                  | 1                         | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>   |   |                                |                                 |                    |                           |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| Subarray  | Include F277W Exposure?  |   |                                |                                 |                    |                           |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256   | false  |   |                                |                                 |                    |                           |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>  |   |                                |                                 |                    |                           |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4                              | 131.938                         |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| #   | Readout Pattern  | Groups/Int  | Integrations/Exp               | Total Dithers                   | Total Integrations | Total Exposure Time       | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | NISRAPID   | 5   | 4                              | 1                               | 4                  | 131.938                   |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>   | <p>Time Series Observation<br/>No Parallel Attachments</p> <p>Group Observations 74, 75, 76, 77, 78, Non-interruptible</p>   |   |                                |                                 |                    |                           |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |                                |                                 |                    |                           |   |       |       |   |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 78 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 78: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 78:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 74, 75, 76, 77, 78, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 24 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--------------------------|---|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 24: NIRCcam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Engineering Imaging</p> |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)   | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>              |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>   |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|                          | A   |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>   | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|                          | 1   | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|                          | 1   | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 24 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 12-SEP-2022 and 18-SEP-2022  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 24, 25, 26, 27, 28, Non-interruptible

Proposal 1539 - Observation 25 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|  |  |   |  |                          |                  |                    |                    |               |                     |                  |
|--|--|---|--|--------------------------|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| <b>Observation</b>                             | Proposal 1539, Observation 25: NIRCam Module B<br>Diagnostic Status: Warning<br>Observing Template: NIRCam Imaging |   |  |                          |                  |                    |                    |               |                     |                  |
| <b>Diagnostics</b>                             | (Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                       |   |  |                          |                  |                    |                    |               |                     |                  |
| <b>Fixed Targets</b>                           | #  | Name  | Target Coordinates   | Targ. Coord. Corrections |                  |                    | Miscellaneous      |               |                     |                  |
| (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                  |                    |                    |               |                     |                  |
| <i>Comments: Coordinates are from Gaia DR2</i> |  |   |  |                          |                  |                    |                    |               |                     |                  |
| <i>Category=Star</i>                           |  |   |  |                          |                  |                    |                    |               |                     |                  |
| <i>Description=[A dwarfs]</i>                  |  |   |  |                          |                  |                    |                    |               |                     |                  |
| <i>Extended=NO</i>                             |  |   |  |                          |                  |                    |                    |               |                     |                  |
| <b>Template</b>                                | Module   | Subarray  |  |                          | Target Placement |                    |                    |               |                     |                  |
| B  | SUB160   |   |  | Module Gap               |                  |                    |                    |               |                     |                  |
| <b>Mosaic</b>                                  | Rows   | Columns   | Row Overlap %  | Column Overlap %         | Row shift        | Column shift       | Tile Order         |               |                     |                  |
| 1  | 2  | 10.0  | 25.0   | 0.0                      | 0.0              | DEFAULT            |                    |               |                     |                  |
| <b>Dithers</b>                                 | #  | Primary Dither Type   | Primary Dithers  | Subpixel Dither Type     | Dither Size      | Subpixel Positions |                    |               |                     |                  |
| 1  | INTRAMODULEBOX   | 2   | STANDARD   | 2                        |                  |                    |                    |               |                     |                  |
| <b>Spectral Elements</b>                       | #  | Short Filter  | Long Filter  | Readout Pattern          | Groups/Int       | Integrations/Exp   | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| 1  | F212N  | F470N+F444W   | RAPID  | 5                        | 1                | 4                  | 4                  | 6.708         |                     |                  |

Proposal 1539 - Observation 25 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 24, 25, 26, 27, 28, Non-interruptible

Proposal 1539 - Observation 26 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|---------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 26: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                     | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                      | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p>                           |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                   | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 2<br>2MASSJ1724463<br>0+6025483 | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                 |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                 |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b> |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                               |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>           | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                    | S1600A1   | NRSRAPID               | 10                | 1  | NONE                     | 5                       | 5                         | 49.712                     |                         |

Proposal 1539 - Observation 26 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 24, 25, 26, 27, 28, Non-interruptible

Proposal 1539 - Observation 27 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>          | <p><b>Proposal 1539, Observation 27: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
|-----------------------------|---|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|---|--|------------------|---|------|-----------|-------|----------|---|---|---|-------|-------|
| <b>Diagnostics</b>          | (Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Fixed Targets</b>        | <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>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections | Miscellaneous   | (1)                | BD+60-1753          | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                  |   |      |           |       |          |   |   |   |       |       |
| #                           | Name  | Target Coordinates  | Targ. Coord. Corrections   | Miscellaneous   |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| (1)                         | BD+60-1753  | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Acquisition</b>          | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations  | Total Exposure Time  | ETC Wkbk.Calc ID | 1 | SAME | SOSSFAINT | F480M | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |
| #                           | Target  | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| 1                           | SAME  | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Template</b>             | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| Subarray                    | Include F277W Exposure?   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| SUBSTRIP256                 | false   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Spectral Elements</b>    | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID  | 1  | NISRAPID         | 5 | 4    | 1         | 4     | 131.938  |   |   |   |       |       |
| #                           | Readout Pattern   | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| 1                           | NISRAPID  | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Special Requirements</b> | <p>Time Series Observation<br/>                 No Parallel Attachments</p> <p>Group Observations 24, 25, 26, 27, 28, Non-interruptible</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |

Proposal 1539 - Observation 28 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 28: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 24, 25, 26, 27, 28, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 29 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--------------------------|---|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 29: NIRCcam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Engineering Imaging</p> |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)   | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>              |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>   |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|                          | A   |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>   | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|                          | 1   | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|                          | 1   | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 29 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 04-JAN-2023 and 08-JAN-2023  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 29, 30, 31, 32, 33, Non-interruptible

Proposal 1539 - Observation 30 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                     |   |  |                  |                    |                    |               |                     |                  |
|--------------------------|--|---------------------|---|--|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| <b>Observation</b>       | Proposal 1539, Observation 30: NIRCam Module B<br>Diagnostic Status: Warning<br>Observing Template: NIRCam Imaging |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Diagnostics</b>       | (Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                       |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Fixed Targets</b>     | #  | Name                | Target Coordinates  | Targ. Coord. Corrections   |                  |                    | Miscellaneous      |               |                     |                  |
|                          | (1)  | BD+60-1753          | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                  |                    |                    |               |                     |                  |
|                          | <i>Comments: Coordinates are from Gaia DR2</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Category=Star</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Description=[A dwarfs]</i>  |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Extended=NO</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Template</b>          | Module   | Subarray            |   |  | Target Placement |                    |                    |               |                     |                  |
|                          | B  | SUB160              |   |  | Module Gap       |                    |                    |               |                     |                  |
| <b>Mosaic</b>            | Rows   | Columns             | Row Overlap %   | Column Overlap %   | Row shift        | Column shift       | Tile Order         |               |                     |                  |
|                          | 1  | 2                   | 10.0  | 25.0   | 0.0              | 0.0                | DEFAULT            |               |                     |                  |
| <b>Dithers</b>           | #  | Primary Dither Type | Primary Dithers   | Subpixel Dither Type   | Dither Size      | Subpixel Positions |                    |               |                     |                  |
|                          | 1  | INTRAMODULEBOX      | 2   | STANDARD   |                  | 2                  |                    |               |                     |                  |
| <b>Spectral Elements</b> | #  | Short Filter        | Long Filter   | Readout Pattern  | Groups/Int       | Integrations/Exp   | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|                          | 1  | F212N               | F470N+F444W   | RAPID  | 5                | 1                  | 4                  | 4             | 6.708               |                  |

Proposal 1539 - Observation 30 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 29, 30, 31, 32, 33, Non-interruptible

Proposal 1539 - Observation 31 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|---------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 31: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                     | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                      | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i>  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                   | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 2<br>2MASSJ1724463<br>0+6025483 | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                 |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                 |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b> |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                               |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>           | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                    | S1600A1   | NRSRAPID               | 10                | 1  | 1                        | NONE                    | 5                         | 5                          | 49.712                  |

Proposal 1539 - Observation 31 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 29, 30, 31, 32, 33, Non-interruptible

Proposal 1539 - Observation 32 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>  | <p><b>Proposal 1539, Observation 32: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
|---|---|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--|----------|---|---|---|-------|-------|---|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>  | (Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td colspan="3">Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i> </td> </tr> </tbody> </table> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |          |   |   |   |       |       | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |  |  |  |  |  |  |  |  |
| #   | Name  | Target Coordinates  | Targ. Coord. Corrections   |                 |                    | Miscellaneous       |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| (1)   | BD+60-1753  | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M  | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |   |  |  |  |  |  |  |  |  |  |
| #   | Target  | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | SAME  | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| Subarray  | Include F277W Exposure?   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256   | false   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4  | 131.938  |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| #   | Readout Pattern   | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | NISRAPID  | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>   | <p>Time Series Observation<br/>No Parallel Attachments</p> <p>Group Observations 29, 30, 31, 32, 33, Non-interruptible</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 33 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 33: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 29, 30, 31, 32, 33, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 34 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|  |  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--|--|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>   | <b>Proposal 1539, Observation 34: NIRCcam Module A</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCcam Engineering Imaging |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|  | (Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>   | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|  | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
| <i>Comments: Coordinates are from Gaia DR2<br/>                 Category=Star<br/>                 Description=[A dwarfs]<br/>                 Extended=NO</i> |  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>  | <b>Module</b>  |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|  | A  |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>  | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|  | 1  | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>   | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|  | 1  | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b>   | <b>#</b>   | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|  | 1  | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 34 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 06-FEB-2023 and 12-FEB-2023  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 34, 35, 36, 37, 38, Non-interruptible

Proposal 1539 - Observation 35 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |  |                            |   |                         |  |                         |                           |                           |                            |                         |
|---|--|----------------------------|---|-------------------------|--|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 35: NIRCam Module B</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCam Imaging |                            |   |                         |  |                         |                           |                           |                            |                         |
|   | (Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                                     |                            |   |                         |  |                         |                           |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                         | <b>Targ. Coord. Corrections</b>  |                         | <b>Miscellaneous</b>      |                           |                            |                         |
|   | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                         |                           |                           |                            |                         |
| <i>Comments: Coordinates are from Gaia DR2<br/>Category=Star<br/>Description=[A dwarfs]<br/>Extended=NO</i> |  |                            |   |                         |  |                         |                           |                           |                            |                         |
| <b>Template</b>   | <b>Module</b>  |                            | <b>Subarray</b>   |                         |  | <b>Target Placement</b> |                           |                           |                            |                         |
|   | B  |                            | SUB160  |                         |  | Module Gap              |                           |                           |                            |                         |
| <b>Mosaic</b>   | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>   | <b>Column shift</b>     | <b>Tile Order</b>         |                           |                            |                         |
|   | 1  | 2                          | 10.0  | 25.0                    | 0.0  | 0.0                     | DEFAULT                   |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b>  |                         | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |
|   | 1  | INTRAMODULEBOX             |   | 2                       | STANDARD   |                         |                           | 2                         |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>  | <b>Readout Pattern</b>  | <b>Groups/Int</b>  | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1  | F212N                      | F470N+F444W   | RAPID                   | 5  | 1                       | 4                         | 4                         | 6.708                      |                         |

Proposal 1539 - Observation 35 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 34, 35, 36, 37, 38, Non-interruptible

Proposal 1539 - Observation 36 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|---------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 36: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                     | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                      | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i>  |                                 |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                   | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 2<br>2MASSJ1724463<br>0+6025483 | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                 |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                 |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b> |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                               |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>           | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                    | S1600A1   | NRSRAPID               | 10                | 1  | 1                        | NONE                    | 5                         | 5                          | 49.712                  |

Proposal 1539 - Observation 36 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 34, 35, 36, 37, 38, Non-interruptible

Proposal 1539 - Observation 37 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>  | <p><b>Proposal 1539, Observation 37: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
|---|---|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--|----------|---|---|---|-------|-------|---|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>  | (Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td colspan="3">Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i> </td> </tr> </tbody> </table> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |          |   |   |   |       |       | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |  |  |  |  |  |  |  |  |
| #   | Name  | Target Coordinates  | Targ. Coord. Corrections   |                 |                    | Miscellaneous       |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| (1)   | BD+60-1753  | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M  | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |   |  |  |  |  |  |  |  |  |  |
| #   | Target  | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | SAME  | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| Subarray  | Include F277W Exposure?   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256   | false   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4  | 131.938  |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| #   | Readout Pattern   | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | NISRAPID  | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>   | <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 34, 35, 36, 37, 38, Non-interruptible</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 38 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 38: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 38:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 34, 35, 36, 37, 38, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 167 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>  | <p><b>Proposal 1539, Observation 167: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
|---|---|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--|----------|---|---|---|-------|-------|---|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>  | (Visit 167:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td colspan="3">Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i> </td> </tr> </tbody> </table> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |          |   |   |   |       |       | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |  |  |  |  |  |  |  |  |
| #   | Name  | Target Coordinates  | Targ. Coord. Corrections   |                 |                    | Miscellaneous       |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| (1)   | BD+60-1753  | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M  | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |   |  |  |  |  |  |  |  |  |  |
| #   | Target  | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | SAME  | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| Subarray  | Include F277W Exposure?   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256   | false   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4  | 131.938  |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| #   | Readout Pattern   | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | NISRAPID  | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>   | <p>Time Series Observation<br/>No Parallel Attachments</p> <p>Group Observations 167, 168, Non-interruptible</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 168 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
|-----------------------------|--|--------------------|---|-------------------------|-------------------------|--|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>          | <p><b>Proposal 1539, Observation 168: MIRI Imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>      |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>          | (Visit 168:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>        | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>   |                         |                         | <b>Targ. Coord. Corrections</b>  |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                             | (1)  | BD+60-1753         | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                         | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                       |                      |                           |                            |                         |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Template</b>             | <p><b>Subarray</b></p> <p>SUB256</p>   |                    |   |                         |                         |  |                       |                      |                           |                            |                         |
| <b>Dithers</b>              | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>   | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>  | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                             | 1  | 4-Point-Sets       |   |                         |                         | 1  | 1                     | POINT SOURCE         | POSITIVE                  | DEFAULT                    |                         |
| <b>Spectral Elements</b>    | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>  | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                             | 1  | F770W              | FASTR1  | 14                      | 1                       | 1  | Dither 1              | 4                    | 4                         | 16.773                     |                         |
| <b>Special Requirements</b> | <p>Between Dates 20-FEB-2023:00:00:00 and 25-FEB-2023:00:00:00</p> <p>Group Observations 167, 168, Non-interruptible</p>                         |                    |   |                         |                         |  |                       |                      |                           |                            |                         |

Proposal 1539 - Observation 39 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|---|--|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>  | Proposal 1539, Observation 39: NIRCcam Module A<br>Diagnostic Status: Warning<br>Observing Template: NIRCcam Engineering Imaging |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|   | (Visit 39:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                                     |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|   | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
| Comments: Coordinates are from Gaia DR2<br>Category=Star<br>Description=[A dwarfs]<br>Extended=NO |  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>   | <b>Module</b>  |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|   | A  |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>   | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|   | 1  | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>  | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|   | 1  | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>   | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1  | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 39 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 06-MAR-2023 and 12-MAR-2023  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 39, 40, 41, 42, 43, Non-interruptible

Proposal 1539 - Observation 40 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                     |   |  |                  |                    |                    |               |                     |                  |
|--------------------------|--|---------------------|---|--|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| <b>Observation</b>       | <b>Proposal 1539, Observation 40: NIRCcam Module B</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCcam Imaging |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Diagnostics</b>       | (Visit 40:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                                       |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Fixed Targets</b>     | #  | Name                | Target Coordinates  | Targ. Coord. Corrections   |                  |                    | Miscellaneous      |               |                     |                  |
|                          | (1)  | BD+60-1753          | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                  |                    |                    |               |                     |                  |
|                          | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i>      |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Template</b>          | Module   | Subarray            |   |  | Target Placement |                    |                    |               |                     |                  |
|                          | B  | SUB160              |   |  | Module Gap       |                    |                    |               |                     |                  |
| <b>Mosaic</b>            | Rows   | Columns             | Row Overlap %   | Column Overlap %   | Row shift        | Column shift       | Tile Order         |               |                     |                  |
|                          | 1  | 2                   | 10.0  | 25.0   | 0.0              | 0.0                | DEFAULT            |               |                     |                  |
| <b>Dithers</b>           | #  | Primary Dither Type | Primary Dithers   | Subpixel Dither Type   | Dither Size      | Subpixel Positions |                    |               |                     |                  |
|                          | 1  | INTRAMODULEBOX      | 2   | STANDARD   |                  | 2                  |                    |               |                     |                  |
| <b>Spectral Elements</b> | #  | Short Filter        | Long Filter   | Readout Pattern  | Groups/Int       | Integrations/Exp   | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|                          | 1  | F212N               | F470N+F444W   | RAPID  | 5                | 1                  | 4                  | 4             | 6.708               |                  |

Proposal 1539 - Observation 40 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 39, 40, 41, 42, 43, Non-interruptible

Proposal 1539 - Observation 41 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|--------------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 41: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 41:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                          | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                           | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p>                           |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                        | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 5<br>2MASSJ1724463<br>0+6025483-copy | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                      |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                      |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b>      |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                                    |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>                | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                         | S1600A1   | NRSRAPID               | 10                | 1  | NONE                     | 5                       | 5                         | 49.712                     |                         |

Proposal 1539 - Observation 41 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 39, 40, 41, 42, 43, Non-interruptible

Proposal 1539 - Observation 42 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |   |                        |   |                         |  |                                |                            |                           |                            |                         |
|-----------------------------|---|------------------------|---|-------------------------|--|--------------------------------|----------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>          | <p><b>Proposal 1539, Observation 42: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p> |                        |   |                         |  |                                |                            |                           |                            |                         |
| <b>Diagnostics</b>          | (Visit 42:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                        |   |                         |  |                                |                            |                           |                            |                         |
| <b>Fixed Targets</b>        | <b>#</b>  | <b>Name</b>            | <b>Target Coordinates</b>   |                         | <b>Targ. Coord. Corrections</b>  |                                |                            | <b>Miscellaneous</b>      |                            |                         |
|                             | (1)   | BD+60-1753             | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                                |                            |                           |                            |                         |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>                        |                        |   |                         |  |                                |                            |                           |                            |                         |
| <b>Acquisition</b>          | <b>#</b>  | <b>Target</b>          | <b>Acquisition Mode</b>   | <b>Filter</b>           | <b>Readout Pattern</b>   | <b>Groups/Int</b>              | <b>Integrations/Exp</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                             | 1   | SAME                   | SOSSFAINT   | F480M                   | NISRAPID   | 9                              | 1                          | 1                         | 0.475                      | 23135                   |
| <b>Template</b>             | <b>Subarray</b>   |                        |   |                         |  | <b>Include F277W Exposure?</b> |                            |                           |                            |                         |
|                             | SUBSTRIP256   |                        |   |                         |  | false                          |                            |                           |                            |                         |
| <b>Spectral Elements</b>    | <b>#</b>  | <b>Readout Pattern</b> | <b>Groups/Int</b>   | <b>Integrations/Exp</b> | <b>Total Dithers</b>   | <b>Total Integrations</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b>   |                            |                         |
|                             | 1   | NISRAPID               | 5   | 4                       | 1  | 4                              | 131.938                    |                           |                            |                         |
| <b>Special Requirements</b> | <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 39, 40, 41, 42, 43, Non-interruptible</p>   |                        |   |                         |  |                                |                            |                           |                            |                         |

Proposal 1539 - Observation 43 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 43: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 39, 40, 41, 42, 43, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 44 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--------------------------|---|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 44: NIRCcam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Engineering Imaging</p> |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 44:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)   | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>              |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>   |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|                          | A   |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>   | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|                          | 1   | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|                          | 1   | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 44 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 03-APR-2023 and 09-APR-2023  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 44, 45, 46, 47, 48, Non-interruptible

Proposal 1539 - Observation 45 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                     |   |  |                  |                    |                    |               |                     |                  |
|--------------------------|--|---------------------|---|--|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| <b>Observation</b>       | Proposal 1539, Observation 45: NIRCcam Module B<br>Diagnostic Status: Warning<br>Observing Template: NIRCcam Imaging |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Diagnostics</b>       | (Visit 45:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                         |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Fixed Targets</b>     | #  | Name                | Target Coordinates  | Targ. Coord. Corrections   |                  |                    | Miscellaneous      |               |                     |                  |
|                          | (1)  | BD+60-1753          | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                  |                    |                    |               |                     |                  |
|                          | <i>Comments: Coordinates are from Gaia DR2</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Category=Star</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Description=[A dwarfs]</i>  |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Extended=NO</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Template</b>          | Module   | Subarray            |   |  | Target Placement |                    |                    |               |                     |                  |
|                          | B  | SUB160              |   |  | Module Gap       |                    |                    |               |                     |                  |
| <b>Mosaic</b>            | Rows   | Columns             | Row Overlap %   | Column Overlap %   | Row shift        | Column shift       | Tile Order         |               |                     |                  |
|                          | 1  | 2                   | 10.0  | 25.0   | 0.0              | 0.0                | DEFAULT            |               |                     |                  |
| <b>Dithers</b>           | #  | Primary Dither Type | Primary Dithers   | Subpixel Dither Type   | Dither Size      | Subpixel Positions |                    |               |                     |                  |
|                          | 1  | INTRAMODULEBOX      | 2   | STANDARD   |                  | 2                  |                    |               |                     |                  |
| <b>Spectral Elements</b> | #  | Short Filter        | Long Filter   | Readout Pattern  | Groups/Int       | Integrations/Exp   | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|                          | 1  | F212N               | F470N+F444W   | RAPID  | 5                | 1                  | 4                  | 4             | 6.708               |                  |

## Proposal 1539 - Observation 45 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 44, 45, 46, 47, 48, Non-interruptible

Proposal 1539 - Observation 46 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|--------------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 46: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 46:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                          | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                           | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i>  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                        | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 5<br>2MASSJ1724463<br>0+6025483-copy | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                      |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                      |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b>      |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                                    |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>                | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                         | S1600A1   | NRSRAPID               | 10                | 1  | 1                        | NONE                    | 5                         | 5                          | 49.712                  |

Proposal 1539 - Observation 46 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 44, 45, 46, 47, 48, Non-interruptible

Proposal 1539 - Observation 47 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>          | <p><b>Proposal 1539, Observation 47: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
|-----------------------------|---|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|---|--|------------------|---|------|-----------|-------|----------|---|---|---|-------|-------|
| <b>Diagnostics</b>          | (Visit 47:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Fixed Targets</b>        | <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>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td>Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections | Miscellaneous   | (1)                | BD+60-1753          | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                  |   |      |           |       |          |   |   |   |       |       |
| #                           | Name  | Target Coordinates  | Targ. Coord. Corrections   | Miscellaneous   |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| (1)                         | BD+60-1753  | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Acquisition</b>          | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations  | Total Exposure Time  | ETC Wkbk.Calc ID | 1 | SAME | SOSSFAINT | F480M | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |
| #                           | Target  | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| 1                           | SAME  | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Template</b>             | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| Subarray                    | Include F277W Exposure?   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| SUBSTRIP256                 | false   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Spectral Elements</b>    | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID  | 1  | NISRAPID         | 5 | 4    | 1         | 4     | 131.938  |   |   |   |       |       |
| #                           | Readout Pattern   | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| 1                           | NISRAPID  | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |
| <b>Special Requirements</b> | <p>Time Series Observation<br/>                 No Parallel Attachments</p> <p>Group Observations 44, 45, 46, 47, 48, Non-interruptible</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |   |  |                  |   |      |           |       |          |   |   |   |       |       |

Proposal 1539 - Observation 48 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 48: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 48:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 44, 45, 46, 47, 48, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 49 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--------------------------|---|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 49: NIRCam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Engineering Imaging</p> |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 49:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)   | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>            |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>   |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|                          | A   |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>   | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|                          | 1   | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|                          | 1   | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 49 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 01-MAY-2023 and 07-MAY-2023  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 49, 50, 51, 52, 53, Non-interruptible

Proposal 1539 - Observation 50 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                     |   |  |                  |                    |                    |               |                     |                  |
|--------------------------|--|---------------------|---|--|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| <b>Observation</b>       | Proposal 1539, Observation 50: NIRCcam Module B<br>Diagnostic Status: Warning<br>Observing Template: NIRCcam Imaging |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Diagnostics</b>       | (Visit 50:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                         |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Fixed Targets</b>     | #  | Name                | Target Coordinates  | Targ. Coord. Corrections   |                  |                    | Miscellaneous      |               |                     |                  |
|                          | (1)  | BD+60-1753          | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                  |                    |                    |               |                     |                  |
|                          | <i>Comments: Coordinates are from Gaia DR2</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Category=Star</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Description=[A dwarfs]</i>  |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Extended=NO</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Template</b>          | Module   | Subarray            |   |  | Target Placement |                    |                    |               |                     |                  |
|                          | B  | SUB160              |   |  | Module Gap       |                    |                    |               |                     |                  |
| <b>Mosaic</b>            | Rows   | Columns             | Row Overlap %   | Column Overlap %   | Row shift        | Column shift       | Tile Order         |               |                     |                  |
|                          | 1  | 2                   | 10.0  | 25.0   | 0.0              | 0.0                | DEFAULT            |               |                     |                  |
| <b>Dithers</b>           | #  | Primary Dither Type | Primary Dithers   | Subpixel Dither Type   | Dither Size      | Subpixel Positions |                    |               |                     |                  |
|                          | 1  | INTRAMODULEBOX      | 2   | STANDARD   |                  | 2                  |                    |               |                     |                  |
| <b>Spectral Elements</b> | #  | Short Filter        | Long Filter   | Readout Pattern  | Groups/Int       | Integrations/Exp   | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|                          | 1  | F212N               | F470N+F444W   | RAPID  | 5                | 1                  | 4                  | 4             | 6.708               |                  |

Proposal 1539 - Observation 50 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 49, 50, 51, 52, 53, Non-interruptible

Proposal 1539 - Observation 51 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|--------------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 51: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                          | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                           | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i>  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                        | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 5<br>2MASSJ1724463<br>0+6025483-copy | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                      |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                      |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b>      |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                                    |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>                | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                         | S1600A1   | NRSRAPID               | 10                | 1  | 1                        | NONE                    | 5                         | 5                          | 49.712                  |

Proposal 1539 - Observation 51 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 49, 50, 51, 52, 53, Non-interruptible

Proposal 1539 - Observation 52 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>  | <p><b>Proposal 1539, Observation 52: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
|---|---|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--|----------|---|---|---|-------|-------|---|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>  | (Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td colspan="3">Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i> </td> </tr> </tbody> </table> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |          |   |   |   |       |       | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |  |  |  |  |  |  |  |  |
| #   | Name  | Target Coordinates  | Targ. Coord. Corrections   |                 |                    | Miscellaneous       |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| (1)   | BD+60-1753  | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M  | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |   |  |  |  |  |  |  |  |  |  |
| #   | Target  | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | SAME  | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| Subarray  | Include F277W Exposure?   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256   | false   |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4  | 131.938  |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| #   | Readout Pattern   | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| 1   | NISRAPID  | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>   | <p>Time Series Observation<br/>No Parallel Attachments</p> <p>Group Observations 49, 50, 51, 52, 53, Non-interruptible</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |   |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 53 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 53: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 53:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 49, 50, 51, 52, 53, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 54 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
|--------------------------|---|----------------------------|---|-------------------------|-----------------------------|--|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 54: NIRCcam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Engineering Imaging</p> |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>       | (Visit 54:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                         |                             | <b>Targ. Coord. Corrections</b>  |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
|                          | (1)   | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         |                             | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                    |                           |                           |                      |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p>              |                            |   |                         |                             |  |                    |                           |                           |                      |                            |                         |
| <b>Template</b>          | <b>Module</b>   |                            |   |                         |                             | <b>Subarray</b>  |                    |                           |                           |                      |                            |                         |
|                          | A   |                            |   |                         |                             | SUB160   |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>            | <b>Rows</b>   | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>            | <b>Column shift</b>  | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
|                          | 1   | 2                          | 10.0  | 25.0                    | 0.0                         | 0.0  | DEFAULT            |                           |                           |                      |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b> |  | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
|                          | 1   | INTRAMODULEBOX             |   | 2                       | STANDARD                    |  |                    | 2                         |                           |                      |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Short Pupil</b>         | <b>Long Pupil</b>   | <b>Short Filter</b>     | <b>Long Filter</b>          | <b>Readout Pattern</b>   | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | CLEAR                      | F470N   | F212N                   | F444W                       | RAPID  | 5                  | 1                         | 4                         | 4                    | 6.708                      |                         |

## Proposal 1539 - Observation 54 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 29-MAY-2023 and 04-JUN-2023  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 54, 55, 56, 57, 58, Non-interruptible

Proposal 1539 - Observation 55 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |  |                            |   |                         |  |                         |                           |                           |                            |                         |
|---|--|----------------------------|---|-------------------------|--|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 55: NIRCam Module B</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRCam Imaging |                            |   |                         |  |                         |                           |                           |                            |                         |
|   | (Visit 55:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                                     |                            |   |                         |  |                         |                           |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                         | <b>Targ. Coord. Corrections</b>  |                         | <b>Miscellaneous</b>      |                           |                            |                         |
|   | (1)  | BD+60-1753                 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                         | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                         |                           |                           |                            |                         |
| <i>Comments: Coordinates are from Gaia DR2<br/>Category=Star<br/>Description=[A dwarfs]<br/>Extended=NO</i> |  |                            |   |                         |  |                         |                           |                           |                            |                         |
| <b>Template</b>   | <b>Module</b>  |                            | <b>Subarray</b>   |                         |  | <b>Target Placement</b> |                           |                           |                            |                         |
|   | B  |                            | SUB160  |                         |  | Module Gap              |                           |                           |                            |                         |
| <b>Mosaic</b>   | <b>Rows</b>  | <b>Columns</b>             | <b>Row Overlap %</b>  | <b>Column Overlap %</b> | <b>Row shift</b>   | <b>Column shift</b>     | <b>Tile Order</b>         |                           |                            |                         |
|   | 1  | 2                          | 10.0  | 25.0                    | 0.0  | 0.0                     | DEFAULT                   |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b>  |                         | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |
|   | 1  | INTRAMODULEBOX             |   | 2                       | STANDARD   |                         |                           | 2                         |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>  | <b>Readout Pattern</b>  | <b>Groups/Int</b>  | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1  | F212N                      | F470N+F444W   | RAPID                   | 5  | 1                       | 4                         | 4                         | 6.708                      |                         |

Proposal 1539 - Observation 55 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 54, 55, 56, 57, 58, Non-interruptible

Proposal 1539 - Observation 56 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|--------------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 56: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 56:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                          | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                           | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <i>Comments: Coordinates are from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i>  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                        | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 5<br>2MASSJ1724463<br>0+6025483-copy | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                      |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                      |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b>      |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                                    |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>                | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                         | S1600A1   | NRSRAPID               | 10                | 1  | NONE                     | 5                       | 5                         | 49.712                     |                         |

Proposal 1539 - Observation 56 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 54, 55, 56, 57, 58, Non-interruptible

Proposal 1539 - Observation 57 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>   | <p><b>Proposal 1539, Observation 57: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
|--|--|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--|----------|---|---|---|-------|-------|--|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>   | <p>(Visit 57:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td colspan="3">Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> </td> </tr> </tbody> </table> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |          |   |   |   |       |       | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |  |  |  |  |  |  |  |  |  |
| #  | Name   | Target Coordinates  | Targ. Coord. Corrections   |                 |                    | Miscellaneous       |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M  | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |  |  |  |  |  |  |  |  |  |  |
| #  | Target   | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| 1  | SAME   | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Template</b>  | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| Subarray   | Include F277W Exposure?  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256  | false  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4  | 131.938  |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| #  | Readout Pattern  | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| 1  | NISRAPID   | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>  | <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 54, 55, 56, 57, 58, Non-interruptible</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 58 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 58: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 58:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 54, 55, 56, 57, 58, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 59 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|  |  |   |                           |                         |  |                                 |                    |                           |                           |                      |                            |                         |
|--|--|---|---------------------------|-------------------------|--|---------------------------------|--------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| <b>Observation</b>   | <p><b>Proposal 1539, Observation 59: NIRCam Module A</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Engineering Imaging</p> <p><i>Comments: timing set back one month to be scheduleable - needs updating when allowed range includes Apr 2023</i></p> |   |                           |                         |  |                                 |                    |                           |                           |                      |                            |                         |
| <b>Diagnostics</b>   | <p>(Visit 59:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |                           |                         |  |                                 |                    |                           |                           |                      |                            |                         |
| <b>Fixed Targets</b>   | <b>#</b>   | <b>Name</b>   | <b>Target Coordinates</b> |                         |  | <b>Targ. Coord. Corrections</b> |                    |                           | <b>Miscellaneous</b>      |                      |                            |                         |
| (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                           |                         | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                                 |                    |                           |                           |                      |                            |                         |
| <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |  |   |                           |                         |  |                                 |                    |                           |                           |                      |                            |                         |
| <b>Template</b>  | <b>Module</b>  |   |                           |                         |  | <b>Subarray</b>                 |                    |                           |                           |                      |                            |                         |
| A  |  |   |                           |                         | SUB160   |                                 |                    |                           |                           |                      |                            |                         |
| <b>Mosaic</b>  | <b>Rows</b>  | <b>Columns</b>  | <b>Row Overlap %</b>      | <b>Column Overlap %</b> | <b>Row shift</b>   | <b>Column shift</b>             | <b>Tile Order</b>  |                           |                           |                      |                            |                         |
| 1  | 2  | 10.0  | 25.0                      | 0.0                     | 0.0  | DEFAULT                         |                    |                           |                           |                      |                            |                         |
| <b>Dithers</b>   | <b>#</b>   | <b>Primary Dither Type</b>  |                           | <b>Primary Dithers</b>  | <b>Subpixel Dither Type</b>  |                                 | <b>Dither Size</b> | <b>Subpixel Positions</b> |                           |                      |                            |                         |
| 1  | INTRAMODULEBOX   |   | 2                         | STANDARD                |  |                                 | 2                  |                           |                           |                      |                            |                         |
| <b>Spectral Elements</b>   | <b>#</b>   | <b>Short Pupil</b>  | <b>Long Pupil</b>         | <b>Short Filter</b>     | <b>Long Filter</b>   | <b>Readout Pattern</b>          | <b>Groups/Int</b>  | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
| 1  | CLEAR  | F470N   | F212N                     | F444W                   | RAPID  | 5                               | 1                  | 4                         | 4                         | 6.708                |                            |                         |

## Proposal 1539 - Observation 59 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 25-JUN-2023 and 01-JUL-2023  
Offset 2.8 arcsec, -0.3 arcsec

Group Observations 59, 60, 61, 62, 63, Non-interruptible

Proposal 1539 - Observation 60 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                     |   |  |                  |                    |                    |               |                     |                  |
|--------------------------|--|---------------------|---|--|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| <b>Observation</b>       | Proposal 1539, Observation 60: NIRCcam Module B<br>Diagnostic Status: Warning<br>Observing Template: NIRCcam Imaging |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Diagnostics</b>       | (Visit 60:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.                         |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Fixed Targets</b>     | #  | Name                | Target Coordinates  | Targ. Coord. Corrections   |                  |                    | Miscellaneous      |               |                     |                  |
|                          | (1)  | BD+60-1753          | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                  |                    |                    |               |                     |                  |
|                          | <i>Comments: Coordinates are from Gaia DR2</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Category=Star</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Description=[A dwarfs]</i>  |                     |   |  |                  |                    |                    |               |                     |                  |
|                          | <i>Extended=NO</i>   |                     |   |  |                  |                    |                    |               |                     |                  |
| <b>Template</b>          | Module   | Subarray            |   |  | Target Placement |                    |                    |               |                     |                  |
|                          | B  | SUB160              |   |  | Module Gap       |                    |                    |               |                     |                  |
| <b>Mosaic</b>            | Rows   | Columns             | Row Overlap %   | Column Overlap %   | Row shift        | Column shift       | Tile Order         |               |                     |                  |
|                          | 1  | 2                   | 10.0  | 25.0   | 0.0              | 0.0                | DEFAULT            |               |                     |                  |
| <b>Dithers</b>           | #  | Primary Dither Type | Primary Dithers   | Subpixel Dither Type   | Dither Size      | Subpixel Positions |                    |               |                     |                  |
|                          | 1  | INTRAMODULEBOX      | 2   | STANDARD   |                  | 2                  |                    |               |                     |                  |
| <b>Spectral Elements</b> | #  | Short Filter        | Long Filter   | Readout Pattern  | Groups/Int       | Integrations/Exp   | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|                          | 1  | F212N               | F470N+F444W   | RAPID  | 5                | 1                  | 4                  | 4             | 6.708               |                  |

Proposal 1539 - Observation 60 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Offset 2.8 arcsec, 0.0 arcsec

Group Observations 59, 60, 61, 62, 63, Non-interruptible

Proposal 1539 - Observation 61 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |  |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
|--------------------------|--|--------------------------------------|---|------------------------|-------------------|--|--------------------------|-------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1539, Observation 61: NIRSpec</b><br/> <b>Diagnostic Status: Warning</b><br/>                 Observing Template: NIRSpec Fixed Slit Spectroscopy</p> |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 61:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>                          | <b>Target Coordinates</b>   |                        |                   | <b>Targ. Coord. Corrections</b>  |                          |                         | <b>Miscellaneous</b>      |                            |                         |
|                          | (1)  | BD+60-1753                           | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                        |                   | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                          |                         |                           |                            |                         |
|                          | <p><i>Comments: Coordinates are from Gaia DR2</i><br/> <i>Category=Star</i><br/> <i>Description=[A dwarfs]</i><br/> <i>Extended=NO</i></p>                           |                                      |   |                        |                   |  |                          |                         |                           |                            |                         |
| <b>Acquisition</b>       | <b>#</b>   | <b>Target</b>                        | <b>TA Method</b>  | <b>Subarray</b>        | <b>Filter</b>     | <b>Readout Pattern</b>   | <b>Groups/Int</b>        | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | 5<br>2MASSJ1724463<br>0+6025483-copy | WATA  | SUB32                  | F140X             | NRSRAPID   | 3                        | 1                       | 1                         | 0.08                       | 0                       |
| <b>Template</b>          | <b>Slit</b>  |                                      |   |                        |                   | <b>Subarray</b>  |                          |                         |                           |                            |                         |
|                          | S1600A1  |                                      |   |                        |                   | SUB2048  |                          |                         |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Primary Dither Positions</b>      |   |                        |                   |  | <b>Sub-Pixel Pattern</b> |                         |                           |                            |                         |
|                          | 1  | 5                                    |   |                        |                   |  | NONE                     |                         |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b>                | <b>Slit</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b> | <b>Integrations/Ex #</b>   | <b>Autocal</b>           | <b>Total Dithers</b>    | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP                         | S1600A1   | NRSRAPID               | 10                | 1  | NONE                     | 5                       | 5                         | 49.712                     |                         |

Proposal 1539 - Observation 61 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Group Observations 59, 60, 61, 62, 63, Non-interruptible

Proposal 1539 - Observation 62 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

| <b>Observation</b>   | <p><b>Proposal 1539, Observation 62: NIRISS SOSS</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRISS Single-Object Slitless Spectroscopy</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
|--|--|---|--|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|--|----------|-------------------------|--------------------|--------------------------|-----------------|--------------------|---------------------|--------------------|---------------------|------------------|-----|------------|---|--|----------|---|---|---|-------|-------|--|--|--|--|--|--|--|--|--|--|
| <b>Diagnostics</b>   | <p>(Visit 62:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Fixed Targets</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>BD+60-1753</td> <td>RA: 17 24 52.2772 (261.2178217d)<br/>Dec: +60 25 50.78 (60.43077d)<br/>Equinox: J2000</td> <td colspan="3">Proper Motion RA: 3.981 mas/yr<br/>Proper Motion Dec: 1.809 mas/yr<br/>Parallax: 0.00197"<br/>Epoch of Position: 2000.0</td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> </td> </tr> </tbody> </table> |   |  |                 |                    |                     |                    |                     |                  |  | #        | Name                    | Target Coordinates | Targ. Coord. Corrections |                 |                    | Miscellaneous       |                    |                     |                  | (1) | BD+60-1753 | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |          |   |   |   |       |       | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |  |  |  |  |  |  |  |  |  |
| #  | Name   | Target Coordinates  | Targ. Coord. Corrections   |                 |                    | Miscellaneous       |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Acquisition</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Acquisition Mode</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>SOSSFAINT</td> <td>F480M</td> <td>NISRAPID</td> <td>9</td> <td>1</td> <td>1</td> <td>0.475</td> <td>23135</td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | #        | Target                  | Acquisition Mode   | Filter                   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1   | SAME       | SOSSFAINT   | F480M  | NISRAPID | 9 | 1 | 1 | 0.475 | 23135 |  |  |  |  |  |  |  |  |  |  |
| #  | Target   | Acquisition Mode  | Filter   | Readout Pattern | Groups/Int         | Integrations/Exp    | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| 1  | SAME   | SOSSFAINT   | F480M  | NISRAPID        | 9                  | 1                   | 1                  | 0.475               | 23135            |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Template</b>  | <table border="1"> <thead> <tr> <th>Subarray</th> <th>Include F277W Exposure?</th> </tr> </thead> <tbody> <tr> <td>SUBSTRIP256</td> <td>false</td> </tr> </tbody> </table>   |   |  |                 |                    |                     |                    |                     |                  |  | Subarray | Include F277W Exposure? | SUBSTRIP256        | false                    |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| Subarray   | Include F277W Exposure?  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| SUBSTRIP256  | false  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Spectral Elements</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</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>NISRAPID</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>131.938</td> <td></td> </tr> </tbody> </table>  |   |  |                 |                    |                     |                    |                     |                  |  | #        | Readout Pattern         | Groups/Int         | Integrations/Exp         | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   | 1                   | NISRAPID         | 5   | 4          | 1   | 4  | 131.938  |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| #  | Readout Pattern  | Groups/Int  | Integrations/Exp   | Total Dithers   | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID   |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| 1  | NISRAPID   | 5   | 4  | 1               | 4                  | 131.938             |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |
| <b>Special Requirements</b>  | <p>Time Series Observation</p> <p>No Parallel Attachments</p> <p>Group Observations 59, 60, 61, 62, 63, Non-interruptible</p>  |   |  |                 |                    |                     |                    |                     |                  |  |          |                         |                    |                          |                 |                    |                     |                    |                     |                  |     |            |   |  |          |   |   |   |       |       |  |  |  |  |  |  |  |  |  |  |

Proposal 1539 - Observation 63 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                             |  |              |   |                  |                  |  |                |               |                    |                     |                  |
|-----------------------------|--|--------------|---|------------------|------------------|--|----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>          | <p>Proposal 1539, Observation 63: MIRI Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>              |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Diagnostics</b>          | (Visit 63:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Fixed Targets</b>        | #  | Name         | Target Coordinates  |                  |                  | Targ. Coord. Corrections   |                |               | Miscellaneous      |                     |                  |
|                             | (1)  | BD+60-1753   | RA: 17 24 52.2772 (261.2178217d)<br>Dec: +60 25 50.78 (60.43077d)<br>Equinox: J2000 |                  |                  | Proper Motion RA: 3.981 mas/yr<br>Proper Motion Dec: 1.809 mas/yr<br>Parallax: 0.00197"<br>Epoch of Position: 2000.0 |                |               |                    |                     |                  |
|                             | <p><i>Comments: Coordinates are from Gaia DR2</i></p> <p><i>Category=Star</i></p> <p><i>Description=[A dwarfs]</i></p> <p><i>Extended=NO</i></p> |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Template</b>             | <p>Subarray</p> <p>SUB256</p>  |              |   |                  |                  |  |                |               |                    |                     |                  |
| <b>Dithers</b>              | #  | Dither Type  | Starting Point  | Number of Points | Points           | Starting Set   | Number of Sets | Optimized For | Direction          | Pattern Size        |                  |
|                             | 1  | 4-Point-Sets |   |                  |                  | 1  | 1              | POINT SOURCE  | POSITIVE           | DEFAULT             |                  |
| <b>Spectral Elements</b>    | #  | Filter       | Readout Pattern   | Groups/Int       | Integrations/Exp | Exposures/Dith   | Dither         | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|                             | 1  | F770W        | FASTR1  | 14               | 1                | 1  | Dither 1       | 4             | 4                  | 16.773              |                  |
| <b>Special Requirements</b> | Group Observations 59, 60, 61, 62, 63, Non-interruptible   |              |   |                  |                  |  |                |               |                    |                     |                  |

Proposal 1539 - Observation 6 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |  |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
|---|--|-------------------------|---|------------------------|-----------------------------|---|---------------------------|----------------------------|-------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 6: MIRI MRS 1</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 1 BKG (Obs 64)] |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
|   | (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>   | <b>Name</b>             | <b>Target Coordinates</b>   |                        |                             | <b>Targ. Coord. Corrections</b>   |                           |                            | <b>Miscellaneous</b>    |                      |                           |                            |                         |
|   | (3)  | HD163466                | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                        |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                           |                            |                         |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>   | <b>Target</b>           | <b>Filter</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b>           | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |                      |                           |                            |                         |
|   | 1  | SAME                    | FND   | FAST                   | 10                          | 1   | 1                         | 27.75                      | 23716.15                |                      |                           |                            |                         |
| <b>Template</b>   | <b>Primary Channel</b>   |                         |   |                        | <b>Simultaneous Imaging</b> |   |                           |                            | <b>Imager Subarray</b>  |                      |                           |                            |                         |
|   | ALL  |                         |   |                        | YES                         |   |                           |                            | FULL                    |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>   | <b>Dither Type</b>      |   |                        |                             | <b>Optimized For</b>  |                           |                            |                         | <b>Direction</b>     |                           |                            |                         |
|   | 1  | 4-Point                 |   |                        |                             | POINT SOURCE  |                           |                            |                         | NEGATIVE             |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>   | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b>          | <b>Readout Pattern</b>      | <b>Groups/Int</b>   | <b>Integrations/Exp</b>   | <b>Exposures/Dith</b>      | <b>Dither</b>           | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1  |                         | IMAGER  | F770W                  | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |
|   | 1  | SHORT(A)                | MRSLONG   |                        | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |
|   | 1  | SHORT(A)                | MRSSHORT  |                        | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |

Proposal 1539 - Observation 6 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Between Dates 02-JUL-2022:00:00:00 and 30-JUL-2022:00:00:00

Sequence Observations 6, 64, Non-interruptible

Proposal 1539 - Observation 64 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |  |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|---|--|-------------------------|---|---------------|------------------------|-----------------------------|---|-----------------------|------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 64: MIRI MRS 1 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 1 (Obs 6)] |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|   | (Visit 64:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>   | <b>Name</b>             | <b>Target Coordinates</b>   |               |                        |                             | <b>Targ. Coord. Corrections</b>   |                       |                        | <b>Miscellaneous</b> |                           |                            |                         |
|   | (4)  | HD163466-BKG            | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |               |                        |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                       |                        |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |  |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>   | <b>Target</b>           |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|   | 1  | NONE                    |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Template</b>   | <b>AcqFilter</b>   | <b>Primary Channel</b>  |   |               |                        | <b>Simultaneous Imaging</b> |   |                       | <b>Imager Subarray</b> |                      |                           |                            |                         |
|   | FND  | ALL                     |   |               |                        | YES                         |   |                       | FULL                   |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>   | <b>Dither Type</b>      |   |               |                        | <b>Optimized For</b>        |   |                       |                        | <b>Direction</b>     |                           |                            |                         |
|   | 1  | 2-Point                 |   |               |                        | POINT SOURCE                |   |                       |                        | NEGATIVE             |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>   | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b> | <b>Readout Pattern</b> | <b>Groups/Int</b>           | <b>Integrations/Exp</b>   | <b>Exposures/Dith</b> | <b>Dither</b>          | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1  |                         | IMAGER  | F770W         | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |
|   | 1  | SHORT(A)                | MRSLONG   |               | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |
|   | 1  | SHORT(A)                | MRSSHORT  |               | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |

Proposal 1539 - Observation 64 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 6, 64, Non-interruptible

Proposal 1539 - Observation 10 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|---|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 10: MIRI MRS 2</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 2 BKG (Obs 65)] |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)   | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1   | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| <b>Template</b>   | Primary Channel   |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL   |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |                 | Optimized For        |   |                    | Direction           |                  |               |                    |                     |                  |
|   | 1   | 4-Point          |   |                 | POINT SOURCE         |   |                    | NEGATIVE            |                  |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

Proposal 1539 - Observation 10 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Between Dates 22-AUG-2022 and 28-AUG-2022

Sequence Observations 10, 65, Non-interruptible

Proposal 1539 - Observation 65 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|---|---|------------------|---|--------|----------------------|---|------------------|-----------------|---------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 65: MIRI MRS 2 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 2 (Obs 10)] |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | (Visit 65:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |        |                      | Targ. Coord. Corrections  |                  |                 | Miscellaneous |               |                    |                     |                  |
|   | (4)   | HD163466-BKG     | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |        |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                  |                 |               |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | 1   | NONE             |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Template</b>   | AcqFilter   | Primary Channel  |   |        | Simultaneous Imaging |   |                  | Imager Subarray |               |               |                    |                     |                  |
|   | FND   | ALL              |   |        | YES                  |   |                  | FULL            |               |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |        | Optimized For        |   |                  | Direction       |               |               |                    |                     |                  |
|   | 1   | 2-Point          |   |        | POINT SOURCE         |   |                  | NEGATIVE        |               |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W  | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSLONG   |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |

Proposal 1539 - Observation 65 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 10, 65, Non-interruptible

Proposal 1539 - Observation 13 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|---|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 13: MIRI MRS 5</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 5 BKG (Obs 68)] |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)   | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1   | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| <b>Template</b>   | Primary Channel   |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL   |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |                 | Optimized For        |   |                    | Direction           |                  |               |                    |                     |                  |
|   | 1   | 4-Point          |   |                 | POINT SOURCE         |   |                    | NEGATIVE            |                  |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

## Proposal 1539 - Observation 13 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 23-JAN-2023 and 30-JAN-2023

Sequence Observations 13, 68, Non-interruptible

Proposal 1539 - Observation 68 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|---|---|-------------------------|---|---------------|-----------------------------|---|-------------------------|------------------------|----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 68: MIRI MRS 5 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 5 (Obs 13)] |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | (Visit 68:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |               |                             | <b>Targ. Coord. Corrections</b>   |                         |                        | <b>Miscellaneous</b> |                      |                           |                            |                         |
|   | (4)   | HD163466-BKG            | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |               |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                         |                        |                      |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | 1   | NONE                    |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Template</b>   | <b>AcqFilter</b>  | <b>Primary Channel</b>  |   |               | <b>Simultaneous Imaging</b> |   |                         | <b>Imager Subarray</b> |                      |                      |                           |                            |                         |
|   | FND   | ALL                     |   |               | YES                         |   |                         | FULL                   |                      |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |               | <b>Optimized For</b>        |   |                         | <b>Direction</b>       |                      |                      |                           |                            |                         |
|   | 1   | 2-Point                 |   |               | POINT SOURCE                |   |                         | NEGATIVE               |                      |                      |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b> | <b>Readout Pattern</b>      | <b>Groups/Int</b>   | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Dither</b>        | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W         | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSLONG   |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |

Proposal 1539 - Observation 68 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 13, 68, Non-interruptible

Proposal 1539 - Observation 14 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|---|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 14: MIRI MRS 6</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 6 BKG (Obs 69)] |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)   | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1   | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| <b>Template</b>   | Primary Channel   |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL   |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |                 | Optimized For        |   |                    | Direction           |                  |               |                    |                     |                  |
|   | 1   | 4-Point          |   |                 | POINT SOURCE         |   |                    | NEGATIVE            |                  |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

## Proposal 1539 - Observation 14 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 20-FEB-2023 and 26-FEB-2023

Sequence Observations 14, 69, Non-interruptible

Proposal 1539 - Observation 69 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |        |   |            |                  |                |                 |               |                    |                     |                  |
|---|---|------------------|---|--------|---|------------|------------------|----------------|-----------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 69: MIRI MRS 6 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 6 (Obs 14)] |                  |   |        |   |            |                  |                |                 |               |                    |                     |                  |
|   | (Visit 69:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |        |   |            |                  |                |                 |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |        | Targ. Coord. Corrections  |            |                  |                | Miscellaneous   |               |                    |                     |                  |
|   | (4)   | HD163466-BKG     | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |        | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |            |                  |                |                 |               |                    |                     |                  |
| Comments: Coordinates from Gaia DR2<br>Category=Star<br>Description=[A dwarfs]<br>Extended=NO |   |                  |   |        |   |            |                  |                |                 |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           |   |        |   |            |                  |                |                 |               |                    |                     |                  |
|   | 1   | NONE             |   |        |   |            |                  |                |                 |               |                    |                     |                  |
| <b>Template</b>   | AcqFilter   | Primary Channel  |   |        | Simultaneous Imaging  |            |                  |                | Imager Subarray |               |                    |                     |                  |
|   | FND   | ALL              |   |        | YES   |            |                  |                | FULL            |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |        | Optimized For   |            |                  |                | Direction       |               |                    |                     |                  |
|   | 1   | 2-Point          |   |        | POINT SOURCE  |            |                  |                | NEGATIVE        |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W  | FASTR1  | 10         | 1                | 1              | Dither 1        | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSLONG   |        | FASTR1  | 10         | 1                | 1              | Dither 1        | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |        | FASTR1  | 10         | 1                | 1              | Dither 1        | 2             | 2                  | 55.501              |                  |

Proposal 1539 - Observation 69 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 14, 69, Non-interruptible

Proposal 1539 - Observation 15 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
|---|---|-------------------------|---|------------------------|-----------------------------|---|---------------------------|----------------------------|-------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 15: MIRI MRS 7</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 7 BKG (Obs 70)] |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
|   | (Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |                        |                             | <b>Targ. Coord. Corrections</b>   |                           |                            | <b>Miscellaneous</b>    |                      |                           |                            |                         |
|   | (3)   | HD163466                | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                        |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                           |                            |                         |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           | <b>Filter</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b>           | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |                      |                           |                            |                         |
|   | 1   | SAME                    | FND   | FAST                   | 10                          | 1   | 1                         | 27.75                      | 23716.15                |                      |                           |                            |                         |
| <b>Template</b>   | <b>Primary Channel</b>  |                         |   |                        | <b>Simultaneous Imaging</b> |   |                           |                            | <b>Imager Subarray</b>  |                      |                           |                            |                         |
|   | ALL   |                         |   |                        | YES                         |   |                           |                            | FULL                    |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |                        |                             | <b>Optimized For</b>  |                           |                            |                         | <b>Direction</b>     |                           |                            |                         |
|   | 1   | 4-Point                 |   |                        |                             | POINT SOURCE  |                           |                            |                         | NEGATIVE             |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b>          | <b>Readout Pattern</b>      | <b>Groups/Int</b>   | <b>Integrations/Exp</b>   | <b>Exposures/Dith</b>      | <b>Dither</b>           | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W                  | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |
|   | 1   | SHORT(A)                | MRSLONG   |                        | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |                        | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |

Proposal 1539 - Observation 15 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Between Dates 20-MAR-2023 and 26-MAR-2023

Sequence Observations 15, 70, Non-interruptible

Proposal 1539 - Observation 70 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|---|---|-------------------------|---|---------------|------------------------|-----------------------------|---|-----------------------|------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 70: MIRI MRS 7 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 7 (Obs 15)] |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|   | (Visit 70:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |               |                        |                             | <b>Targ. Coord. Corrections</b>   |                       |                        | <b>Miscellaneous</b> |                           |                            |                         |
|   | (4)   | HD163466-BKG            | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |               |                        |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                       |                        |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|   | 1   | NONE                    |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Template</b>   | <b>AcqFilter</b>  | <b>Primary Channel</b>  |   |               |                        | <b>Simultaneous Imaging</b> |   |                       | <b>Imager Subarray</b> |                      |                           |                            |                         |
|   | FND   | ALL                     |   |               |                        | YES                         |   |                       | FULL                   |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |               |                        | <b>Optimized For</b>        |   |                       |                        | <b>Direction</b>     |                           |                            |                         |
|   | 1   | 2-Point                 |   |               |                        | POINT SOURCE                |   |                       |                        | NEGATIVE             |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b> | <b>Readout Pattern</b> | <b>Groups/Int</b>           | <b>Integrations/Exp</b>   | <b>Exposures/Dith</b> | <b>Dither</b>          | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W         | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSLONG   |               | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |               | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |

Proposal 1539 - Observation 70 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 15, 70, Non-interruptible

Proposal 1539 - Observation 16 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|---|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 16: MIRI MRS 8</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 8 BKG (Obs 71)] |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)   | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1   | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| <b>Template</b>   | Primary Channel   |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL   |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |                 | Optimized For        |   |                    | Direction           |                  |               |                    |                     |                  |
|   | 1   | 4-Point          |   |                 | POINT SOURCE         |   |                    | NEGATIVE            |                  |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

Proposal 1539 - Observation 16 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Between Dates 17-APR-2023 and 23-APR-2023

Sequence Observations 16, 71, Non-interruptible

Proposal 1539 - Observation 71 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|---|---|-------------------------|---|---------------|------------------------|-----------------------------|---|-----------------------|------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 71: MIRI MRS 8 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 8 (Obs 16)] |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|   | (Visit 71:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |               |                        |                             | <b>Targ. Coord. Corrections</b>   |                       |                        | <b>Miscellaneous</b> |                           |                            |                         |
|   | (4)   | HD163466-BKG            | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |               |                        |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                       |                        |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                         |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
|   | 1   | NONE                    |   |               |                        |                             |   |                       |                        |                      |                           |                            |                         |
| <b>Template</b>   | <b>AcqFilter</b>  | <b>Primary Channel</b>  |   |               |                        | <b>Simultaneous Imaging</b> |   |                       | <b>Imager Subarray</b> |                      |                           |                            |                         |
|   | FND   | ALL                     |   |               |                        | YES                         |   |                       | FULL                   |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |               |                        | <b>Optimized For</b>        |   |                       |                        | <b>Direction</b>     |                           |                            |                         |
|   | 1   | 2-Point                 |   |               |                        | POINT SOURCE                |   |                       |                        | NEGATIVE             |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b> | <b>Readout Pattern</b> | <b>Groups/Int</b>           | <b>Integrations/Exp</b>   | <b>Exposures/Dith</b> | <b>Dither</b>          | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W         | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSLONG   |               | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |               | FASTR1                 | 10                          | 1   | 1                     | Dither 1               | 2                    | 2                         | 55.501                     |                         |

Proposal 1539 - Observation 71 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 16, 71, Non-interruptible

Proposal 1539 - Observation 17 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|---|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 17: MIRI MRS 9</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 9 BKG (Obs 72)] |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)   | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1   | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| <b>Template</b>   | Primary Channel   |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL   |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |                 | Optimized For        |   |                    | Direction           |                  |               |                    |                     |                  |
|   | 1   | 4-Point          |   |                 | POINT SOURCE         |   |                    | NEGATIVE            |                  |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

## Proposal 1539 - Observation 17 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 15-MAY-2023 and 21-MAY-2023

Sequence Observations 17, 72, Non-interruptible

Proposal 1539 - Observation 72 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|---|---|-------------------------|---|---------------|-----------------------------|---|-------------------------|------------------------|----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 72: MIRI MRS 9 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 9 (Obs 17)] |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | (Visit 72:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |               |                             | <b>Targ. Coord. Corrections</b>   |                         |                        | <b>Miscellaneous</b> |                      |                           |                            |                         |
|   | (4)   | HD163466-BKG            | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |               |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                         |                        |                      |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | 1   | NONE                    |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Template</b>   | <b>AcqFilter</b>  | <b>Primary Channel</b>  |   |               | <b>Simultaneous Imaging</b> |   |                         | <b>Imager Subarray</b> |                      |                      |                           |                            |                         |
|   | FND   | ALL                     |   |               | YES                         |   |                         | FULL                   |                      |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |               | <b>Optimized For</b>        |   |                         | <b>Direction</b>       |                      |                      |                           |                            |                         |
|   | 1   | 2-Point                 |   |               | POINT SOURCE                |   |                         | NEGATIVE               |                      |                      |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b> | <b>Readout Pattern</b>      | <b>Groups/Int</b>   | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Dither</b>        | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W         | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSLONG   |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |

Proposal 1539 - Observation 72 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 17, 72, Non-interruptible

Proposal 1539 - Observation 18 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|                          |   |                  |                    |                      |                 |                          |                    |                     |                  |               |                    |                     |                  |
|--------------------------|---|------------------|--------------------|----------------------|-----------------|--------------------------|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>       | <b>Proposal 1539, Observation 18: MIRI MRS 10</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 10 BKG (Obs 73)]<br>Comments: timing set back one month to be scheduleable - needs updating when allowed range includes Apr 2023 |                  |                    |                      |                 |                          |                    |                     |                  |               |                    |                     |                  |
| <b>Diagnostics</b>       | (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |                    |                      |                 |                          |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>     | #   | Name             | Target Coordinates |                      |                 | Targ. Coord. Corrections |                    |                     | Miscellaneous    |               |                    |                     |                  |
| <b>Acquisition</b>       | #   | Target           | Filter             | Readout Pattern      | Groups/Int      | Integrations/Exp         | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
| <b>Template</b>          | Primary Channel   |                  |                    | Simultaneous Imaging |                 |                          |                    | Imager Subarray     |                  |               |                    |                     |                  |
| <b>Dithers</b>           | #   | Dither Type      |                    |                      | Optimized For   |                          |                    |                     | Direction        |               |                    |                     |                  |
| <b>Spectral Elements</b> | #   | 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   |                  | IMAGER             | F770W                | FASTR1          | 32                       | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|                          | 1   | SHORT(A)         | MRSLONG            |                      | FASTR1          | 32                       | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|                          | 1   | SHORT(A)         | MRSSHORT           |                      | FASTR1          | 32                       | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

Proposal 1539 - Observation 18 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Between Dates 12-JUN-2023 and 18-JUN-2023

Sequence Observations 18, 73, Non-interruptible

Proposal 1539 - Observation 73 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|---|---|------------------|---|--------|----------------------|---|------------------|-----------------|---------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 73: MIRI MRS 10 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 10 (Obs 18)] |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | (Visit 73:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |        |                      | Targ. Coord. Corrections  |                  |                 | Miscellaneous |               |                    |                     |                  |
|   | (4)   | HD163466-BKG     | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |        |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                  |                 |               |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | 1   | NONE             |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Template</b>   | AcqFilter   | Primary Channel  |   |        | Simultaneous Imaging |   |                  | Imager Subarray |               |               |                    |                     |                  |
|   | FND   | ALL              |   |        | YES                  |   |                  | FULL            |               |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |        | Optimized For        |   |                  | Direction       |               |               |                    |                     |                  |
|   | 1   | 2-Point          |   |        | POINT SOURCE         |   |                  | NEGATIVE        |               |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W  | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSLONG   |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |

Proposal 1539 - Observation 73 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 18, 73, Non-interruptible

Proposal 1539 - Observation 110 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|---|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 110: MIRI MRS 2</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 2 BKG (Obs 165)]<br>Comments: Repeat of skipped observation 10 |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 110:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)   | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| Comments: Coordinates from Gaia DR2<br>Category=Star<br>Description=[A dwarfs]<br>Extended=NO |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1   | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| <b>Template</b>   | Primary Channel   |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL   |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |                 | Optimized For        |   |                    | Direction           |                  |               |                    |                     |                  |
|   | 1   | 4-Point          |   |                 | POINT SOURCE         |   |                    | NEGATIVE            |                  |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

## Proposal 1539 - Observation 110 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 10-JUL-2023:00:00:00 and 16-JUL-2023:00:00:00

Sequence Observations 110, 165, Non-interruptible

Proposal 1539 - Observation 165 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|---|---|-------------------------|---|---------------|-----------------------------|---|-------------------------|------------------------|----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 165: MIRI MRS 2 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 2 (Obs 110)]<br>Comments: Repeat of skipped observation 65 |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | (Visit 165:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |               |                             | <b>Targ. Coord. Corrections</b>   |                         |                        | <b>Miscellaneous</b> |                      |                           |                            |                         |
|   | (4)   | HD163466-BKG            | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |               |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                         |                        |                      |                      |                           |                            |                         |
| Comments: Coordinates from Gaia DR2<br>Category=Star<br>Description=[A dwarfs]<br>Extended=NO |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | 1   | NONE                    |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Template</b>   | <b>AcqFilter</b>  | <b>Primary Channel</b>  |   |               | <b>Simultaneous Imaging</b> |   |                         | <b>Imager Subarray</b> |                      |                      |                           |                            |                         |
|   | FND   | ALL                     |   |               | YES                         |   |                         | FULL                   |                      |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |               | <b>Optimized For</b>        |   |                         | <b>Direction</b>       |                      |                      |                           |                            |                         |
|   | 1   | 2-Point                 |   |               | POINT SOURCE                |   |                         | NEGATIVE               |                      |                      |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b> | <b>Readout Pattern</b>      | <b>Groups/Int</b>   | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Dither</b>        | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W         | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSLONG   |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |

Proposal 1539 - Observation 165 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 110, 165, Non-interruptible

Proposal 1539 - Observation 11 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
|---|---|-------------------------|---|------------------------|-----------------------------|---|---------------------------|----------------------------|-------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 11: MIRI MRS 3</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 3 BKG (Obs 66)] |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
|   | (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |                        |                             | <b>Targ. Coord. Corrections</b>   |                           |                            | <b>Miscellaneous</b>    |                      |                           |                            |                         |
|   | (3)   | HD163466                | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                        |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                           |                            |                         |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                         |   |                        |                             |   |                           |                            |                         |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           | <b>Filter</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b>           | <b>Integrations/Exp</b>   | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |                      |                           |                            |                         |
|   | 1   | SAME                    | FND   | FAST                   | 10                          | 1   | 1                         | 27.75                      | 23716.15                |                      |                           |                            |                         |
| <b>Template</b>   | <b>Primary Channel</b>  |                         |   |                        | <b>Simultaneous Imaging</b> |   |                           |                            | <b>Imager Subarray</b>  |                      |                           |                            |                         |
|   | ALL   |                         |   |                        | YES                         |   |                           |                            | FULL                    |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |                        |                             | <b>Optimized For</b>  |                           |                            |                         | <b>Direction</b>     |                           |                            |                         |
|   | 1   | 4-Point                 |   |                        |                             | POINT SOURCE  |                           |                            |                         | NEGATIVE             |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b>          | <b>Readout Pattern</b>      | <b>Groups/Int</b>   | <b>Integrations/Exp</b>   | <b>Exposures/Dith</b>      | <b>Dither</b>           | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W                  | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |
|   | 1   | SHORT(A)                | MRSLONG   |                        | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |                        | FASTR1                      | 32  | 1                         | 1                          | Dither 1                | 4                    | 4                         | 355.205                    |                         |

## Proposal 1539 - Observation 11 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 07-AUG-2023:00:00:00 and 13-AUG-2023:00:00:00

Sequence Observations 11, 66, Non-interruptible

Proposal 1539 - Observation 66 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|---|---|------------------|---|--------|----------------------|---|------------------|-----------------|---------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 66: MIRI MRS 3 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 3 (Obs 11)] |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | (Visit 66:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |        |                      | Targ. Coord. Corrections  |                  |                 | Miscellaneous |               |                    |                     |                  |
|   | (4)   | HD163466-BKG     | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |        |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                  |                 |               |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | 1   | NONE             |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Template</b>   | AcqFilter   | Primary Channel  |   |        | Simultaneous Imaging |   |                  | Imager Subarray |               |               |                    |                     |                  |
|   | FND   | ALL              |   |        | YES                  |   |                  | FULL            |               |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |        | Optimized For        |   |                  | Direction       |               |               |                    |                     |                  |
|   | 1   | 2-Point          |   |        | POINT SOURCE         |   |                  | NEGATIVE        |               |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W  | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSLONG   |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |

Proposal 1539 - Observation 66 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 11, 66, Non-interruptible

Proposal 1539 - Observation 12 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|---|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| Observation   | <b>Proposal 1539, Observation 12: MIRI MRS 4</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 4 BKG (Obs 67)] |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| Fixed Targets   | #   | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)   | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| Acquisition   | #   | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1   | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| Template  | Primary Channel   |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL   |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| 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   |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

## Proposal 1539 - Observation 12 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 04-SEP-2023:00:00:00 and 10-SEP-2023:00:00:00

Sequence Observations 12, 67, Non-interruptible

Proposal 1539 - Observation 67 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|---|---|------------------|---|--------|----------------------|---|------------------|-----------------|---------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 67: MIRI MRS 4 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 4 (Obs 12)] |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | (Visit 67:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #   | Name             | Target Coordinates  |        |                      | Targ. Coord. Corrections  |                  |                 | Miscellaneous |               |                    |                     |                  |
|   | (4)   | HD163466-BKG     | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |        |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                  |                 |               |               |                    |                     |                  |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                  |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Acquisition</b>  | #   | Target           |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
|   | 1   | NONE             |   |        |                      |   |                  |                 |               |               |                    |                     |                  |
| <b>Template</b>   | AcqFilter   | Primary Channel  |   |        | Simultaneous Imaging |   |                  | Imager Subarray |               |               |                    |                     |                  |
|   | FND   | ALL              |   |        | YES                  |   |                  | FULL            |               |               |                    |                     |                  |
| <b>Dithers</b>  | #   | Dither Type      |   |        | Optimized For        |   |                  | Direction       |               |               |                    |                     |                  |
|   | 1   | 2-Point          |   |        | POINT SOURCE         |   |                  | NEGATIVE        |               |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #   | 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   |                  | IMAGER  | F770W  | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSLONG   |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |
|   | 1   | SHORT(A)         | MRSSHORT  |        | FASTR1               | 10  | 1                | 1               | Dither 1      | 2             | 2                  | 55.501              |                  |

Proposal 1539 - Observation 67 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 12, 67, Non-interruptible

Proposal 1539 - Observation 113 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|---|--|------------------|---|-----------------|----------------------|---|--------------------|---------------------|------------------|---------------|--------------------|---------------------|------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 113: MIRI MRS 5</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[MIRI MRS 5 BKG (Obs 268)]<br>Comments: repeat of failed observation 13 |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
|   | (Visit 113:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Fixed Targets</b>  | #  | Name             | Target Coordinates  |                 |                      | Targ. Coord. Corrections  |                    |                     | Miscellaneous    |               |                    |                     |                  |
|   | (3)  | HD163466         | RA: 17 52 25.3757 (268.1057321d)<br>Dec: +60 23 46.94 (60.39637d)<br>Equinox: J2000 |                 |                      | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                    |                     |                  |               |                    |                     |                  |
| Comments: Coordinates from Gaia DR2<br>Category=Star<br>Description=[A dwarfs]<br>Extended=NO |  |                  |   |                 |                      |   |                    |                     |                  |               |                    |                     |                  |
| <b>Acquisition</b>  | #  | Target           | Filter  | Readout Pattern | Groups/Int           | Integrations/Exp  | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |               |                    |                     |                  |
|   | 1  | SAME             | FND   | FAST            | 10                   | 1   | 1                  | 27.75               | 23716.15         |               |                    |                     |                  |
| <b>Template</b>   | Primary Channel  |                  |   |                 | Simultaneous Imaging |   |                    |                     | Imager Subarray  |               |                    |                     |                  |
|   | ALL  |                  |   |                 | YES                  |   |                    |                     | FULL             |               |                    |                     |                  |
| <b>Dithers</b>  | #  | Dither Type      |   |                 | Optimized For        |   |                    | Direction           |                  |               |                    |                     |                  |
|   | 1  | 4-Point          |   |                 | POINT SOURCE         |   |                    | NEGATIVE            |                  |               |                    |                     |                  |
| <b>Spectral Elements</b>  | #  | 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  |                  | IMAGER  | F770W           | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1  | SHORT(A)         | MRSLONG   |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |
|   | 1  | SHORT(A)         | MRSSHORT  |                 | FASTR1               | 32  | 1                  | 1                   | Dither 1         | 4             | 4                  | 355.205             |                  |

## Proposal 1539 - Observation 113 - Absolute Flux Calibration (Repeatability)ision

### Special Requirements

Between Dates 06-MAR-2023:00:00:00 and 12-MAR-2023:00:00:00

Sequence Observations 113, 268, Non-interruptible

Proposal 1539 - Observation 268 - Absolute Flux Calibration (Repeatability)ision

Fri Mar 03 20:00:34 GMT 2023

|   |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|---|---|-------------------------|---|---------------|-----------------------------|---|-------------------------|------------------------|----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1539, Observation 268: MIRI MRS 5 BKG</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [MIRI MRS 5 (Obs 113)]<br><i>Comments: repeat of failed observation 68</i> |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | (Visit 268:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Diagnosics</b>   |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>  | <b>Name</b>             | <b>Target Coordinates</b>   |               |                             | <b>Targ. Coord. Corrections</b>   |                         |                        | <b>Miscellaneous</b> |                      |                           |                            |                         |
|   | (4)   | HD163466-BKG            | RA: 17 53 25.3757 (268.3557321d)<br>Dec: +60 24 46.94 (60.41304d)<br>Equinox: J2000 |               |                             | Proper Motion RA: -2.730 mas/yr<br>Proper Motion Dec: 42.672 mas/yr<br>Parallax: 0.005086"<br>Epoch of Position: 2000 |                         |                        |                      |                      |                           |                            |                         |
| <i>Comments: Coordinates from Gaia DR2</i><br><i>Category=Star</i><br><i>Description=[A dwarfs]</i><br><i>Extended=NO</i> |   |                         |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Acquisition</b>  | <b>#</b>  | <b>Target</b>           |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
|   | 1   | NONE                    |   |               |                             |   |                         |                        |                      |                      |                           |                            |                         |
| <b>Template</b>   | <b>AcqFilter</b>  | <b>Primary Channel</b>  |   |               | <b>Simultaneous Imaging</b> |   |                         | <b>Imager Subarray</b> |                      |                      |                           |                            |                         |
|   | FND   | ALL                     |   |               | YES                         |   |                         | FULL                   |                      |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>  | <b>Dither Type</b>      |   |               | <b>Optimized For</b>        |   |                         | <b>Direction</b>       |                      |                      |                           |                            |                         |
|   | 1   | 2-Point                 |   |               | POINT SOURCE                |   |                         | NEGATIVE               |                      |                      |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>  | <b>Wavelength Range</b> | <b>Detector</b>   | <b>Filter</b> | <b>Readout Pattern</b>      | <b>Groups/Int</b>   | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>  | <b>Dither</b>        | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1   |                         | IMAGER  | F770W         | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSLONG   |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |
|   | 1   | SHORT(A)                | MRSSHORT  |               | FASTR1                      | 10  | 1                       | 1                      | Dither 1             | 2                    | 2                         | 55.501                     |                         |

Proposal 1539 - Observation 268 - Absolute Flux Calibration (Repeatability)ision

Special Requirements

Sequence Observations 113, 268, Non-interruptible