



2739 - JWST Cycle 1 Outreach Campaign

Cycle: 1, Proposal Category: DD

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> |
|--------------------------------------|--|
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OBSERVATIONS

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|-----------------------|--------------------|-----------------------|---------------------------|-----------------------|
| Pillars of Creation | | | | |
| | 1 | Pillars NIRCcam image | NIRCcam Imaging | (1) M-16 |
| | 2 | Pillars MIRI image | MIRI Imaging | (1) M-16 |
| Ice giants | | | | |
| | 3 | Uranus NIRCcam | NIRCcam Imaging | (2) URANUS |
| | 11 | Uranus NIRCcam repeat | NIRCcam Imaging | (2) URANUS |
| | 4 | Neptune NIRCcam | NIRCcam Imaging | (3) NEPTUNE |
| L1527 protostar | | | | |
| | 5 | L1527 NIRCcam image | NIRCcam Imaging | (4) LDN-1527 |
| | 6 | L1527 MIRI image | MIRI Imaging | (4) LDN-1527 |
| Arp 220 nearest ULIRG | | | | |

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|---|--------------------|---|---------------------------|-----------------------|
| | 7 | Arp 220 NIRCam image | NIRCam Imaging | (5) IC-4553 |
| | 8 | Arp 220 MIRI image | MIRI Imaging | (5) IC-4553 |
| Oph Core | | | | |
| | 9 | NIRCAM observation Oph Core | NIRCam Imaging | (7) OPH-CORE |
| NIRCAM observation Oph Core repeat Mosaic Group | | | | |
| | 10 | NIRCAM observation Oph Core repeat | NIRCam Imaging | (7) OPH-CORE |
| | 12 | NIRCAM observation Oph Core repeat Split off Tile-4 | NIRCam Imaging | (8) OPH-CORE-Tile-4 |
| | 13 | NIRCAM observation Oph Core repeat Split off Tile-2 | NIRCam Imaging | (9) OPH-CORE-Tile-2 |

ABSTRACT

We propose to obtain multi-color NIRCam and MIRI imaging of four sidereal targets (star-forming region M16, the L1527 protostar, the Arp 220 infrared galaxy, and the Helix nebula), as well as NIRCam imaging of Uranus and Neptune. This set of observations will provide imaging data for use in Public Outreach products in the first few months of Cycle 1, in the time period before the first science results from the community. The proposed observations complement those to be observed as part of the Early Release Observations, and are needed to maintain a cadence of a new imaging press release every two weeks from July 15 and through October 2022.

OBSERVING DESCRIPTION

This proposal contains a set of 5 sub-programs to be used for public outreach images during the time period between the Early Release Observations (EROs) and the first community-driven science press releases anticipated to begin in October. The observations contain NIRCam and MIRI imaging, and are designed to produce high quality, high signal-to-noise products, appropriate for Public Outreach (PO) imagery.

*** Pillars of creation ***

FOV: The NIRCam image uses two mosaic tiles for coverage, and two overlapping tiles, combined with a standard dither pattern. This ensures the

JWST Proposal 2739 (Created: Monday, March 27, 2023 at 2:02:08 PM Eastern Standard Time) - Overview

most uniform coverage, and is the preferred strategy for ERO observations. Thus, the NIRCcam observation is set up as a 2x2 mosaic, but it is really a 2-tile, optimally dithered mosaic. The FOV is designed to encompass all three pillars. The position angle of NIRCcam is not perfectly aligned, leading to a more slanted composition than seen in the classic Hubble image. A large MIRI mosaic is needed to cover all three pillars, requiring 2x3 tiles.

Filters: We use a mixture of broad and narrow band filters to capture prominent background, dust, and gas features, as described in the PDF attachment.

Exposure parameters: We use BRIGHT1 and SHALLOW2 for broad-band and narrow-band filters, respectively. For a total of 1600s in broad filters and 2800s in narrow filters, this is consistent with public outreach image quality for star-forming regions, with enough dynamic range to reveal both bright nebulosity, as well as the background field of galaxies. The M16 core, and in particular the exposed surface of the pillars, are very bright in the mid-infrared. Hence, MIRI ramps are limited to 10 groups, adding integrations for better dynamic range.

Dither patterns: We use the 5TIGHT dither pattern for NIRCcam. However, note that with the overlapping set of mosaic tiles, we actually get 10 dithers over the central 70% of the area.

Special Requirements: Limited PA range for composition. To be observed before October 1, 2022, to be available for a stop gap press release.

*** Ice giants ***

FOV: We use NIRCcam B only. Offsetting by 11", 11" (15"x15" for Uranus) should ensure that the full planet disk is included within a single SW SCA for all dithers, while still providing space for detecting moons.

Filters: The observation is prioritizing dynamic range over number of filters. Hence, we use 4 NIRCcam medium-band filters to enhance color contrasts, using the predicted spectra by Norwood et al. 2016.

Exposure parameters: We use two sets of exposure time. One set of filters with a short exposure time (~450s) to minimize rotation of the planet during the visit, and another deeper set (~1400s) to detect faint ring structure and moons. There will still be some rotation visible for unresolved features between the short filter sets (but not within a dither pattern), which may have to be corrected for in post processing. Together, this should

still provide very high SNR detections of planet features, rings, and moons for a high dynamic range composite.

Dither patterns: We use a 5TIGHT INTRAMODULEBOX dither to support the short planetary disk exposures, while still having a square FOV for moons.

Ephemerides: We use the APT built-in ephemerides for Uranus and Neptune.

Special Requirements: Before October 1, 2022. The observations are constrained to keep the major moons separated from the planetary disk and within the FOV.

*** L1527 protostar ***

FOV: One NIRCam module, and two MIRI tiles to cover the same area.

Filters: As described in the main proposal. 6 NIRCam filters, and 3 MIRI filters.

Exposure parameters: We use the BRIGHT1 and SHALLOW2 readout patterns for broad- and narrow-band filters respectively. The L1527 nebula has somewhat lower surface brightness than some other targets (~ 10 MJy/sr), so exposure times are kept at, or above, ~ 1500 s for every filter.

Dither patterns: NIRCam INTRAMODULEBOX for a square field, with roughly uniform coverage. 8 dithers for high-quality resampling and efficient hot pixel/CR rejection. MIRI uses 8 cycled dithers with the MEDIUM pattern for similar reasons. Because of the large MIRI mosaic and bright nebulosity, we only use 6 dithers per mosaic tile, trading a bit of CR rejection and imaging quality for spatial coverage.

Special Requirements: Before October 1, 2022.

*** Arp 220 nearest Ultra-Luminous Infrared Galaxy (ULIRG) ***

FOV: One NIRCam module, and two MIRI tiles to cover the same area.

Filters: As described in the main proposal. 6 NIRCam filters, and 4 MIRI filters.

Exposure parameters: This requires a relatively deep field, using SHALLOW2 for a total of ~1400s per filter.

Dither patterns: NIRCam INTRAMODULEBOX for a square field, with roughly uniform coverage. 5 dithers for moderate resampling and efficient hot pixel/CR rejection. MIRI uses 8 cycled dithers with the MEDIUM pattern.

Special Requirements: Before October 1, 2022.

Oph core vista

FOV: 2 NIRCam FULL tiles, with 2 additional tiles for overlapped dither.

Filters: As described in the main proposal. 6 NIRCam filters.

Exposure parameters: Narrow band filters use the SHALLOW2 readout pattern with 6 groups, for a total of >2000 s of exposure time per filter over most of the FOV. Broad filters

Dither patterns: We use the FULLBOX pattern with 6TIGHT dithers (multiplied by 2 for the overlapping regions between mosaic tiles). 5-10 dithers will produce high-quality resampled images across the FOV with good bad pixel and CR rejection.

Special requirement: We use a limited PA range to ensure that we obtain a well-aligned landscape of the ionized region and transition to molecular gas, as well as a field of cometary clumps.

Proposal 2739 - Targets - JWST Cycle 1 Outreach Campaign

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|-----------------|--|--|---------------|
| (1) | M-16 | RA: 18 18 55.1777 (274.7299071d) Dec: -13 51 6.18 (-13.85172d) Equinox: J2000 | Proper Motion RA: 1.2218951716652483E-5 sec of time/yr Proper Motion Dec: -0.0015759999769215938 arcsec/yr Epoch of Position: 2015.5 | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=ISM</i> <i>Description=[Molecular clouds, Nebulae, Protostars]</i> | | | | |
| (4) | LDN-1527 | RA: 04 39 54.1938 (69.9758075d) Dec: +26 03 17.65 (26.05490d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Protostars]</i> | | | | |
| (5) | IC-4553 | RA: 15 34 57.7233 (233.7405137d) Dec: +23 30 5.92 (23.50164d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Ultraluminous infrared galaxies]</i> | | | | |
| (7) | OPH-CORE | RA: 16 26 30.5629 (246.6273454d) Dec: -24 23 4.16 (-24.38449d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Dense interstellar clouds]</i> | | | | |
| (8) | OPH-CORE-Tile-4 | RA: 16 26 30.9680 (246.6290333d) Dec: -24 22 47.35 (-24.37982d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Dense interstellar clouds]</i> | | | | |
| (9) | OPH-CORE-Tile-2 | RA: 16 26 22.5585 (246.5939937d) Dec: -24 21 45.78 (-24.36272d) Equinox: J2000 | | |
| <i>Comments:</i> <i>Category=ISM</i> <i>Description=[Dense interstellar clouds]</i> | | | | |
| # | Name | Level 1 | Level 2 | Level 3 |
| (2) | URANUS | STD=URANUS | | |
| <i>Comments: Extended=YES</i> | | | | |
| (3) | NEPTUNE | STD=NEPTUNE | | |
| <i>Comments: Extended=YES</i> | | | | |

Fixed Targets

Solar System Targets

Proposal 2739 - Observation 1 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

| | | | | | | | | | | |
|--------------------------|--|----------------------------|---|--|-----------------------------|-------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| Observation | Proposal 2739, Observation 1: Pillars NIRCam image Diagnostic Status: Warning Observing Template: NIRCam Imaging | | | | | | | | | |
| Diagnostics | (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (1) | M-16 | RA: 18 18 55.1777 (274.7299071d) Dec: -13 51 6.18 (-13.85172d) Equinox: J2000 | Proper Motion RA: 1.2218951716652483E-5 sec of time/yr Proper Motion Dec: -0.0015759999769215938 arcsec/yr Epoch of Position: 2015.5 | | | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=ISM</i> <i>Description=[Molecular clouds, Nebulae, Protostars]</i> | | | | | | | | | |
| Template | Module | | Subarray | | Target Placement | | | | | |
| | ALL | | FULL | | Module Gap | | | | | |
| Mosaic | Rows | Columns | Row Overlap % | Column Overlap % | Row shift | Column shift | Tile Order | | | |
| | 2 | 2 | 10.0 | 71.5 | 0.0 | 0.0 | DEFAULT | | | |
| Dithers | # | Primary Dither Type | Primary Dithers | | Subpixel Dither Type | Dither Size | Subpixel Positions | | | |
| | 1 | FULLBOX | 5TIGHT | | STANDARD | | 1 | | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F187N | F470N+F444W | SHALLOW2 | 6 | 1 | 5 | 5 | 1449.464 | |
| | 2 | F090W | F335M | BRIGHT1 | 8 | 1 | 5 | 5 | 805.258 | |
| | 3 | F200W | F444W | BRIGHT1 | 8 | 1 | 5 | 5 | 805.258 | |

Proposal 2739 - Observation 1 - JWST Cycle 1 Outreach Campaign

Special Requirements

Between Dates 01-JUN-2022 and 01-OCT-2022
Group Visits within 53.0 Days
Aperture PA Range 91.88744876 to 97.88744876 Degrees (V3 91.95880186 to 97.95880186)
Visits Same PA

Proposal 2739 - Observation 2 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

| Observation | Proposal 2739, Observation 2: Pillars MIRI image Diagnostic Status: Warning Observing Template: MIRI Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|---|--|------------------|----------------|----------------|---------------|--------------------|---------------------|------------------|------|-------------|--------------------|--------------------------|------------------|----------------|----------------|---|--|---------------------|------------------|---------|-------|---------------|----|---|---|----------|---|--------|--------|--|---|--------|--------|----|---|---|----------|---|----|--------|--|---|--------|--------|----|---|---|----------|---|----|--------|--|
| Diagnostics | (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 2:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 2:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 2:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <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>M-16</td> <td>RA: 18 18 55.1777 (274.7299071d) Dec: -13 51 6.18 (-13.85172d) Equinox: J2000</td> <td>Proper Motion RA: 1.2218951716652483E-5 sec of time/yr Proper Motion Dec: -0.0015759999769215938 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[Molecular clouds, Nebulae, Protostars]</i></p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (1) | M-16 | RA: 18 18 55.1777 (274.7299071d) Dec: -13 51 6.18 (-13.85172d) Equinox: J2000 | Proper Motion RA: 1.2218951716652483E-5 sec of time/yr Proper Motion Dec: -0.0015759999769215938 arcsec/yr Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | M-16 | RA: 18 18 55.1777 (274.7299071d) Dec: -13 51 6.18 (-13.85172d) Equinox: J2000 | Proper Motion RA: 1.2218951716652483E-5 sec of time/yr Proper Motion Dec: -0.0015759999769215938 arcsec/yr Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | Subarray FULL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | <table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift</th> <th>Column shift</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>3</td> <td>10.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>HILBERT_CURVE</td> </tr> </tbody> </table> | | | | | | | | | | Rows | Columns | Row Overlap % | Column Overlap % | Row shift | Column shift | Tile Order | 2 | 3 | 10.0 | 10.0 | 0.0 | 0.0 | HILBERT_CURVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rows | Columns | Row Overlap % | Column Overlap % | Row shift | Column shift | Tile Order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 3 | 10.0 | 10.0 | 0.0 | 0.0 | HILBERT_CURVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CYCLING</td> <td>1</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>MEDIUM</td> </tr> </tbody> </table> | | | | | | | | | | # | Dither Type | Starting Point | Number of Points | Points | Starting Set | Number of Sets | Optimized For | Direction | Pattern Size | 1 | CYCLING | 1 | 6 | | | | | | MEDIUM | | | | | | | | | | | | | | | | | | | | | | | | |
| # | Dither Type | Starting Point | Number of Points | Points | Starting Set | Number of Sets | Optimized For | Direction | Pattern Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | CYCLING | 1 | 6 | | | | | | MEDIUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <table border="1"> <thead> <tr> <th>#</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</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>F770W</td> <td>FASTR1</td> <td>10</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>6</td> <td>24</td> <td>715.96</td> <td></td> </tr> <tr> <td>2</td> <td>F1130W</td> <td>FASTR1</td> <td>20</td> <td>2</td> <td>1</td> <td>Dither 1</td> <td>6</td> <td>12</td> <td>682.66</td> <td></td> </tr> <tr> <td>3</td> <td>F1500W</td> <td>FASTR1</td> <td>10</td> <td>4</td> <td>1</td> <td>Dither 1</td> <td>6</td> <td>24</td> <td>715.96</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | # | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1 | F770W | FASTR1 | 10 | 4 | 1 | Dither 1 | 6 | 24 | 715.96 | | 2 | F1130W | FASTR1 | 20 | 2 | 1 | Dither 1 | 6 | 12 | 682.66 | | 3 | F1500W | FASTR1 | 10 | 4 | 1 | Dither 1 | 6 | 24 | 715.96 | |
| # | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F770W | FASTR1 | 10 | 4 | 1 | Dither 1 | 6 | 24 | 715.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | F1130W | FASTR1 | 20 | 2 | 1 | Dither 1 | 6 | 12 | 682.66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | F1500W | FASTR1 | 10 | 4 | 1 | Dither 1 | 6 | 24 | 715.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 2739 - Observation 2 - JWST Cycle 1 Outreach Campaign

Special Requirements

Between Dates 01-JUN-2022 and 01-OCT-2022
Group Visits within 53.0 Days
Aperture PA Range 96.83425324 to 102.83425324 Degrees (V3 91.99880427 to 97.99880427)
Visits Same PA
Offset -47.80777283942441 arcsec, 14.14140598690686 arcsec

Proposal 2739 - Observation 3 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

| | | | | | | | | | | |
|-------------------------------|---|---------------------|-----------------|----------------------|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| Observation | Proposal 2739, Observation 3: Uranus NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging | | | | | | | | | |
| | (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | | | | | |
| | (2) | URANUS | STD=URANUS | | | | | | | |
| <i>Comments: Extended=YES</i> | | | | | | | | | | |
| Template | Module | Subarray | | | Target Placement | | | | | |
| | B | FULL | | | Module Gap | | | | | |
| Dithers | # | Primary Dither Type | Primary Dithers | Subpixel Dither Type | Dither Size | Subpixel Positions | | | | |
| | 1 | INTRAMODULEBOX | 5 | STANDARD | | 1 | | | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F140M | F300M | RAPID | 8 | 1 | 5 | 5 | 429.471 | |
| | 2 | F210M | F460M | RAPID | 8 | 1 | 5 | 5 | 429.471 | |
| | 3 | F140M | F300M | BRIGHT1 | 7 | 2 | 10 | 5 | 1449.464 | |
| | 4 | F210M | F460M | BRIGHT1 | 7 | 2 | 10 | 5 | 1449.464 | |
| Special Requirements | Between Dates 01-JUN-2022 and 01-APR-2023 Offset 15.0 arcsec, 15.0 arcsec DEFAULT WINDOW: ANGULAR RATE URANUS FROM JWST LESS THAN 0.03 SEPARATION OF URANUS OBERON FROM JWST LESS THAN 50" SEPARATION OF URANUS TITANIA FROM JWST LESS THAN 50" | | | | | | | | | |
| | | | | | | | | | | |

Proposal 2739 - Observation 11 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

| | | | | | | | | | | |
|-------------------------------|--|---------------------|-----------------|----------------------|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| Observation | Proposal 2739, Observation 11: Uranus NIRCcam repeat Diagnostic Status: Warning Observing Template: NIRCcam Imaging | | | | | | | | | |
| | (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | | | | | |
| | (2) | URANUS | STD=URANUS | | | | | | | |
| <i>Comments: Extended=YES</i> | | | | | | | | | | |
| Template | Module | Subarray | | | Target Placement | | | | | |
| | B | FULL | | | Module Gap | | | | | |
| Dithers | # | Primary Dither Type | Primary Dithers | Subpixel Dither Type | Dither Size | Subpixel Positions | | | | |
| | 1 | INTRAMODULEBOX | 5 | STANDARD | | 1 | | | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F140M | F300M | RAPID | 8 | 1 | 5 | 5 | 429.471 | |
| | 2 | F210M | F460M | RAPID | 8 | 1 | 5 | 5 | 429.471 | |
| | 3 | F140M | F300M | BRIGHT1 | 7 | 2 | 10 | 5 | 1449.464 | |
| | 4 | F210M | F460M | BRIGHT1 | 7 | 2 | 10 | 5 | 1449.464 | |
| Special Requirements | Offset 15.0 arcsec, 15.0 arcsec DEFAULT WINDOW: ANGULAR RATE URANUS FROM JWST LESS THAN 0.03 SEPARATION OF URANUS OBERON FROM JWST LESS THAN 50" SEPARATION OF URANUS TITANIA FROM JWST LESS THAN 50" | | | | | | | | | |
| | | | | | | | | | | |

Proposal 2739 - Observation 4 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

| | | | | | | | | | | |
|-------------------------------|--|---------------------|-----------------|----------------------|------------------|--------------------|--------------------|---------------|---------------------|------------------|
| Observation | Proposal 2739, Observation 4: Neptune NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging | | | | | | | | | |
| | (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | | | | | |
| | (3) | NEPTUNE | STD=NEPTUNE | | | | | | | |
| <i>Comments: Extended=YES</i> | | | | | | | | | | |
| Template | Module | Subarray | | | Target Placement | | | | | |
| | B | FULL | | | Module Gap | | | | | |
| Dithers | # | Primary Dither Type | Primary Dithers | Subpixel Dither Type | Dither Size | Subpixel Positions | | | | |
| | 1 | INTRAMODULEBOX | 5 | STANDARD | | 1 | | | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F140M | F300M | RAPID | 8 | 1 | 5 | 5 | 429.471 | |
| | 2 | F210M | F460M | RAPID | 8 | 1 | 5 | 5 | 429.471 | |
| | 3 | F140M | F300M | BRIGHT1 | 7 | 2 | 10 | 5 | 1449.464 | |
| | 4 | F210M | F460M | BRIGHT1 | 7 | 2 | 10 | 5 | 1449.464 | |
| Special Requirements | Between Dates 01-JUN-2022 and 01-OCT-2022 Offset 11.0 arcsec, 11.0 arcsec | | | | | | | | | |
| | DEFAULT WINDOW: NOT ECLIPSE PENUMBRA PARTIAL OF NEPTUNE BY TRITON FROM JWST DEFAULT WINDOW: ANGULAR RATE NEPTUNE FROM JWST LESS THAN 0.03 SEPARATION OF NEPTUNE TRITON FROM JWST LESS THAN 40" | | | | | | | | | |

Proposal 2739 - Observation 5 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

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|-----------------------------|--|----------------------------|--|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| Observation | <p>Proposal 2739, Observation 5: L1527 NIRCam image</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (4) | LDN-1527 | RA: 04 39 54.1938 (69.9758075d) Dec: +26 03 17.65 (26.05490d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | |
| | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Protostars]</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | B | | FULL | | | Module Gap | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEBOX | | 8 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F187N | F470N+F444W | SHALLOW2 | 6 | 1 | 8 | 8 | 2319.142 | |
| | 2 | F115W | F335M | BRIGHT1 | 9 | 1 | 8 | 8 | 1460.201 | |
| | 3 | F200W | F444W | BRIGHT1 | 9 | 1 | 8 | 8 | 1460.201 | |
| Special Requirements | <p>Between Dates 01-JUN-2022 and 01-OCT-2022</p> <p>Aperture PA Range 250.02984889 to 260.02984889 Degrees (V3 249.9740136 to 259.9740136)</p> | | | | | | | | | |

Proposal 2739 - Observation 6 - JWST Cycle 1 Outreach Campaign

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| Observation | <p>Proposal 2739, Observation 6: L1527 MIRI image</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---------------------------|------------------|----------------|----------------|---------------|--------------------|---------------------|------------------|------|-------------|--------------------|--------------------------|------------------|----------------|----------------|---------------|--------------------|---------------------|------------------|----------|--|---------------------------|-----|-----|---------|----------|---|---|--|--|---|--------|--------|----|---|---|----------|---|---|----------|--|---|--------|--------|----|---|---|----------|---|----|---------|--|
| Diagnostics | <p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 6:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th colspan="6">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LDN-1527</td> <td>RA: 04 39 54.1938 (69.9758075d) Dec: +26 03 17.65 (26.05490d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td colspan="6"></td> </tr> <tr> <td colspan="10"> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Protostars]</i></p> </td> </tr> </tbody> </table> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | (4) | LDN-1527 | RA: 04 39 54.1938 (69.9758075d) Dec: +26 03 17.65 (26.05490d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Protostars]</i></p> | | | | | | | | | | | | | | | | | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (4) | LDN-1527 | RA: 04 39 54.1938 (69.9758075d) Dec: +26 03 17.65 (26.05490d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[Protostars]</i></p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | <p>Subarray</p> <p>FULL</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | <table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift</th> <th>Column shift</th> <th colspan="4">Tile Order</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>10.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td colspan="4">DEFAULT</td> </tr> </tbody> </table> | | | | | | | | | | Rows | Columns | Row Overlap % | Column Overlap % | Row shift | Column shift | Tile Order | | | | 1 | 2 | 10.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rows | Columns | Row Overlap % | Column Overlap % | Row shift | Column shift | Tile Order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 10.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th colspan="2">Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CYCLING</td> <td>1</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="2">MEDIUM</td> </tr> </tbody> </table> | | | | | | | | | | # | Dither Type | Starting Point | Number of Points | Points | Starting Set | Number of Sets | Optimized For | Direction | Pattern Size | | 1 | CYCLING | 1 | 8 | | | | | | MEDIUM | | | | | | | | | | | | | | | | | | | | | | | |
| # | Dither Type | Starting Point | Number of Points | Points | Starting Set | Number of Sets | Optimized For | Direction | Pattern Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | CYCLING | 1 | 8 | | | | | | MEDIUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <table border="1"> <thead> <tr> <th>#</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</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>F770W</td> <td>FASTR1</td> <td>60</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>8</td> <td>1332.019</td> <td></td> </tr> <tr> <td>2</td> <td>F1280W</td> <td>FASTR1</td> <td>60</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>8</td> <td>1332.019</td> <td></td> </tr> <tr> <td>3</td> <td>F1800W</td> <td>FASTR1</td> <td>30</td> <td>2</td> <td>1</td> <td>Dither 1</td> <td>8</td> <td>16</td> <td>1354.22</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | # | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | 1 | F770W | FASTR1 | 60 | 1 | 1 | Dither 1 | 8 | 8 | 1332.019 | | 2 | F1280W | FASTR1 | 60 | 1 | 1 | Dither 1 | 8 | 8 | 1332.019 | | 3 | F1800W | FASTR1 | 30 | 2 | 1 | Dither 1 | 8 | 16 | 1354.22 | |
| # | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F770W | FASTR1 | 60 | 1 | 1 | Dither 1 | 8 | 8 | 1332.019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | F1280W | FASTR1 | 60 | 1 | 1 | Dither 1 | 8 | 8 | 1332.019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | F1800W | FASTR1 | 30 | 2 | 1 | Dither 1 | 8 | 16 | 1354.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Requirements | <p>Before Date 01-OCT-2022</p> <p>Group Visits within 53.0 Days</p> <p>Aperture PA Range 254.83425324 to 264.83425324 Degrees (V3 249.99880427 to 259.99880427)</p> <p>Visits Same PA</p> <p>Offset -3.3935031999787864 arcsec, -7.421911683777194 arcsec</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 2739 - Observation 7 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

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|-----------------------------|---|----------------------------|--|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| Observation | <p>Proposal 2739, Observation 7: Arp 220 NIRCam image</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> | | | | | | | | | |
| Diagnostics | (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (5) | IC-4553 | RA: 15 34 57.7233 (233.7405137d) Dec: +23 30 5.92 (23.50164d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | |
| | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Ultraluminous infrared galaxies]</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | B | | FULL | | | Module Gap | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | INTRAMODULEBOX | | 5 | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F090W | F277W | SHALLOW2 | 6 | 1 | 5 | 5 | 1449.464 | |
| | 2 | F150W | F356W | SHALLOW2 | 6 | 1 | 5 | 5 | 1449.464 | |
| | 3 | F200W | F444W | SHALLOW2 | 6 | 1 | 5 | 5 | 1449.464 | |
| Special Requirements | Before Date 01-OCT-2022 | | | | | | | | | |

Proposal 2739 - Observation 8 - JWST Cycle 1 Outreach Campaign

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|-----------------------------|---|--------------------|--|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| Observation | <p>Proposal 2739, Observation 8: Arp 220 MIRI image</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p> | | | | | | | | | | |
| Diagnostics | (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | Miscellaneous | | | |
| | (5) | IC-4553 | RA: 15 34 57.7233 (233.7405137d) Dec: +23 30 5.92 (23.50164d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | |
| | <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Ultraluminous infrared galaxies]</i></p> | | | | | | | | | | |
| Template | <p>Subarray</p> <p>FULL</p> | | | | | | | | | | |
| Dithers | # | Dither Type | Starting Point | Number of Points | Points | Starting Set | Number of Sets | Optimized For | Direction | Pattern Size | |
| | 1 | CYCLING | 1 | 8 | | | | | | MEDIUM | |
| Spectral Elements | # | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F770W | FASTR1 | 60 | 1 | 1 | Dither 1 | 8 | 8 | 1332.019 | |
| | 2 | F1130W | FASTR1 | 60 | 1 | 1 | Dither 1 | 8 | 8 | 1332.019 | |
| | 3 | F1280W | FASTR1 | 60 | 1 | 1 | Dither 1 | 8 | 8 | 1332.019 | |
| | 4 | F1500W | FASTR1 | 30 | 2 | 1 | Dither 1 | 8 | 16 | 1354.22 | |
| Special Requirements | <p>Before Date 01-OCT-2022</p> <p>Offset -3.3935031999787864 arcsec, -7.421911683777194 arcsec</p> | | | | | | | | | | |

Proposal 2739 - Observation 9 - JWST Cycle 1 Outreach Campaign

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| | | | | | | | | | | |
|---|---|----------------------------|---|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| Observation | Proposal 2739, Observation 9: NIRCAM observation Oph Core Diagnostic Status: Warning Observing Template: NIRCAM Imaging | | | | | | | | | |
| Diagnostics | (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| | (Visit 9:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| | (Visit 9:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| | (Visit 9:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| | (Visit 9:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| | (Visit 9:6) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (7) | OPH-CORE | RA: 16 26 30.5629 (246.6273454d) Dec: -24 23 4.16 (-24.38449d) Equinox: J2000 | | | | | | | |
| <i>Comments: Category=ISM Description=[Dense interstellar clouds]</i> | | | | | | | | | | |
| Template | Module | Subarray | | | Target Placement | | | | | |
| | ALL | FULL | | | Module Gap | | | | | |
| Mosaic | Rows | Columns | Row Overlap % | Column Overlap % | Row shift | Column shift | Tile Order | | | |
| | 3 | 2 | 7.0 | 71.5 | 0.0 | 0.0 | DEFAULT | | | |
| Dithers | # | Primary Dither Type | Primary Dithers | Subpixel Dither Type | Dither Size | Subpixel Positions | | | | |
| | 1 | FULLBOX | 6TIGHT | STANDARD | | 1 | | | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F187N | F470N+F444W | SHALLOW2 | 5 | 1 | 6 | 6 | 1417.254 | 117752 |
| | 2 | F115W | F335M | BRIGHT1 | 7 | 1 | 6 | 6 | 837.468 | 117752 |
| | 3 | F200W | F444W | BRIGHT1 | 6 | 1 | 6 | 6 | 708.627 | 117752 |

Proposal 2739 - Observation 9 - JWST Cycle 1 Outreach Campaign

Special Requirements

Group Visits within 53.0 Days
Aperture PA Range 273.9286469 to 294.9286469 Degrees (V3 274.0 to 295.0)
Visits Same PA

Proposal 2739 - Observation 10 - JWST Cycle 1 Outreach Campaign

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| | | | | | | | | | | |
|--|--|----------------------------|---|-------------------------|---------------------------------|-------------------------|---------------------------|----------------------|----------------------------|-------------------------|
| Observation | Proposal 2739, Observation 10: NIRCAM observation Oph Core repeat Diagnostic Status: Warning Observing Template: NIRCam Imaging | | | | | | | | | |
| | (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 10:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements. | | | | | | | | | |
| Diagnosics | | | | | | | | | | |
| | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | Miscellaneous | | | |
| | (7) | OPH-CORE | RA: 16 26 30.5629 (246.6273454d) Dec: -24 23 4.16 (-24.38449d) Equinox: J2000 | | | | | | | |
| Comments: Category=ISM Description=[Dense interstellar clouds] | | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module Gap | | | | |
| Mosaic | Rows | Columns | Row Overlap % | Column Overlap % | Row shift | Column shift | Tile Order | | | |
| | 3 | 2 | 7.0 | 71.5 | 0.0 | 0.0 | HILBERT_CURVE | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | Dither Size | Subpixel Positions | | | |
| | 1 | FULLBOX | | 6TIGHT | STANDARD | | 1 | | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F187N | F470N+F444W | SHALLOW2 | 5 | 1 | 6 | 6 | 1417.254 | 117752 |
| | 2 | F115W | F335M | BRIGHT1 | 7 | 1 | 6 | 6 | 837.468 | 117752 |
| | 3 | F200W | F444W | BRIGHT1 | 6 | 1 | 6 | 6 | 708.627 | 117752 |
| Special Requirements | Aperture PA Range 279.8286469 to 279.8286469 Degrees (V3 279.9 to 279.9) | | | | | | | | | |
| | | | | | | | | | | |

Proposal 2739 - Observation 12 - JWST Cycle 1 Outreach Campaign

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| | | | | | | | | | | |
|-----------------------------|---|----------------------------|--|---------------------------------|-----------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| Observation | <p>Proposal 2739, Observation 12: NIRCAM observation Oph Core repeat Split off Tile-4</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 12:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | | | | Miscellaneous | | |
| | (8) | OPH-CORE-Tile-4 | RA: 16 26 30.9680 (246.6290333d) Dec: -24 22 47.35 (-24.37982d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=ISM</i> <i>Description=[Dense interstellar clouds]</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module Gap | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | FULLBOX | | 6TIGHT | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F187N | F470N+F444W | SHALLOW2 | 5 | 1 | 6 | 6 | 1417.254 | 117752 |
| | 2 | F115W | F335M | BRIGHT1 | 7 | 1 | 6 | 6 | 837.468 | 117752 |
| | 3 | F200W | F444W | BRIGHT1 | 6 | 1 | 6 | 6 | 708.627 | 117752 |
| Special Requirements | <p>Aperture PA Range 279.8286469 to 279.8286469 Degrees (V3 279.9 to 279.9)</p> | | | | | | | | | |

Proposal 2739 - Observation 13 - JWST Cycle 1 Outreach Campaign

Mon Mar 27 19:02:08 GMT 2023

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|-----------------------------|---|----------------------------|--|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| Observation | <p>Proposal 2739, Observation 13: NIRCAM observation Oph Core repeat Split off Tile-2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p> | | | | | | | | | |
| Diagnostics | <p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 13:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p> | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | |
| | (9) | OPH-CORE-Tile-2 | RA: 16 26 22.5585 (246.5939937d) Dec: -24 21 45.78 (-24.36272d) Equinox: J2000 | | | | | | | |
| | <p><i>Comments:</i> <i>Category=ISM</i> <i>Description=[Dense interstellar clouds]</i></p> | | | | | | | | | |
| Template | Module | | Subarray | | | Target Placement | | | | |
| | ALL | | FULL | | | Module Gap | | | | |
| Dithers | # | Primary Dither Type | | Primary Dithers | Subpixel Dither Type | | Dither Size | Subpixel Positions | | |
| | 1 | FULLBOX | | 6TIGHT | STANDARD | | | 1 | | |
| Spectral Elements | # | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | F187N | F470N+F444W | SHALLOW2 | 5 | 1 | 6 | 6 | 1417.254 | 117752 |
| | 2 | F115W | F335M | BRIGHT1 | 7 | 1 | 6 | 6 | 837.468 | 117752 |
| | 3 | F200W | F444W | BRIGHT1 | 6 | 1 | 6 | 6 | 708.627 | 117752 |
| Special Requirements | Aperture PA Range 279.8286469 to 279.8286469 Degrees (V3 279.9 to 279.9) | | | | | | | | | |