



2883 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCam in Frontier Fields

Cycle: 2, Proposal Category: GO

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| Dr. Lukas Jonathan Furtak (CoI) | Ben-Gurion University of the Negev |
| Dr. Kevin Hainline (CoI) | University of Arizona |
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JWST Proposal 2883 (Created: Tuesday, June 11, 2024 at 4:00:24 PM Eastern Standard Time) - Overview

| <i>Name</i> | <i>Institution</i> |
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| Dr. Zhiyuan Ji (CoI) | University of Arizona |
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| Prof. Jean-Paul Richard Kneib (CoI) (ESA Member) | Ecole Polytechnique Federale de Lausanne |
| Prof. Kirsten Kraiberg Knudsen (CoI) (ESA Member) | Chalmers University of Technology |
| Dr. Anton M. Koekemoer (CoI) | Space Telescope Science Institute |
| Prof. Kotaro Kohno (CoI) | University of Tokyo, Institute of Astronomy |
| Dr. Vasily Kokorev (CoI) | University of Texas at Austin |
| Dr. Minju Lee (CoI) (ESA Member) | Cosmic Dawn Center, Niels Bohr Institute |
| Dr. Daizhong Liu (CoI) | Purple Mountain Observatory |
| Dr. Weizhe Liu (CoI) | University of Arizona |
| Prof. Michael Maseda (CoI) | University of Wisconsin - Madison |
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| Prof. Masamune Oguri (CoI) | Chiba University |
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| Dr. Feige Wang (CoI) | University of Arizona |
| Dr. John R. Weaver (CoI) | University of Massachusetts - Amherst |
| Dr. Christopher Nicholas Andrew Willmer (CoI) | University of Arizona |
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| Prof. Haojing Yan (CoI) | University of Missouri - Columbia |
| Dr. Jinyi Yang (CoI) | University of Arizona |
| Prof. Adi Zitrin (CoI) | Ben Gurion University of the Negev |

| <i>Name</i> | <i>Institution</i> |
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| Ms. Lola Danhaive (CoI) (ESA Member) | University of Cambridge |
| Jakob Helton (CoI) | University of Arizona |
| Shuo HUANG (CoI) | University of Tokyo |
| Ms. Xiangyu Jin (CoI) | University of Arizona |
| Mingyu Li (CoI) | Tsinghua University |
| Mr. Zihao Li (CoI) | Tsinghua University |
| Ms. Xiaojing Lin (CoI) | University of Arizona |
| Mr. Massimo Pascale (CoI) | University of California - Berkeley |
| Bangzheng Sun (CoI) | University of Missouri - Columbia |
| Dr. Zechang Sun (CoI) | Tsinghua University |
| Mr. Wei Leong Tee (CoI) | University of Arizona |
| Akiyoshi Tsujita (CoI) | University of Tokyo, Institute of Astronomy |
| Mr. Ryosuke Uematsu (CoI) | Kyoto University |
| Mr. Yunjing Wu (CoI) | Tsinghua University |
| Mr. Haowen Zhang (CoI) | University of Arizona |

OBSERVATIONS

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|--------------------|--------------------|--------------|---|-----------------------|
| Observation Folder | | | | |
| | 1 | A2744-F360M | NIRCam Wide Field Slitless Spectroscopy | (1) ABELL2744 |
| | 2 | A2744-F480M | NIRCam Wide Field Slitless Spectroscopy | (1) ABELL2744 |
| | 3 | A370-F360M | NIRCam Wide Field Slitless Spectroscopy | (2) ABELL370 |
| | 4 | A370-F480M | NIRCam Wide Field Slitless Spectroscopy | (2) ABELL370 |
| | 5 | M0416-F360M | NIRCam Wide Field Slitless Spectroscopy | (3) MCS-J0416.1-2403 |
| | 6 | M0416-F480M | NIRCam Wide Field Slitless Spectroscopy | (3) MCS-J0416.1-2403 |
| | 7 | M1149-F360M | NIRCam Wide Field Slitless Spectroscopy | (4) MCS-J1149.5+2223 |
| | 8 | M1149-F480M | NIRCam Wide Field Slitless Spectroscopy | (4) MCS-J1149.5+2223 |

ABSTRACT

Which type of galaxies reionized the Universe? Previous HST observations have measured the rest-frame UV luminosity function (LF) of galaxies at $z=2-10$, suggesting a steeper faint-end slope of UVLF toward higher redshift. If true, dwarf galaxies should contribute to the majority of ionizing

photon budget at $z=6-10$. However, the spectroscopic completeness of galaxies decreases dramatically towards the faint end and high redshift, and it still remains unclear (1) how many dropout-selected sources are genuine galaxies at the Epoch of Reionization, (2) how many ionizing photons did they emit, and thus (3) whether dwarf galaxies reionized the Universe.

We propose a novel cosmological experiment, aiming to resolve the fundamental questions mentioned above with the most efficient strategy among all available JWST observing modes/programs. This will be achieved with a medium-band slitless spectroscopic survey with NIRCcam grism at 3.6 and 4.8 μm in four frontier field clusters, where deep JWST 1-5 μm imaging and 1-2.2 μm spectroscopy will be obtained by Cycle 1. By combining medium-filter (low sky-background) and lensing magnification, we will construct unbiased, flux-complete samples of ~ 440 and ~ 50 [OIII] LF and spectroscopic complete UVLF, study the 100pc-scale star formation, metallicity, dust attenuation, kinematics, production and escape of ionizing photon in dwarf galaxies through multiple emission lines across $z=1-9$. We waive the proprietary period to encourage community engagement, including public transient search.

OBSERVING DESCRIPTION

We will obtain NIRCcam wide-field slitless spectroscopy (WFSS) of four Frontier Field clusters, namely Abell 2744, Abell 370, MACS J0416 and MACS J1149. All of these cluster fields are scheduled to be observed with NIRCcam 1-5 μm imaging, NIRISS 1-2.2 μm WFSS and NIRCcam/NIRISS parallel imaging at 1-5 μm with various JWST Cycle-1 programs, including GTO-1176 (PEARLS), GTO-1208 (CANUCS), ERS-1324 (GLASS), GO-2561 (UNCOVER) and DDT-2756. The positional angles (PAs) and footprints of our proposed observations are carefully designed to maximize the overlapping area with existing or scheduled JWST NIRCcam and NIRISS observations, and therefore facilitating joint analyses between imaging and spectroscopy, optimizing the legacy value of JWST's observations in Frontier Field clusters.

Our NIRCcam WFSS observations will be conducted using Grism C with medium-band filter F360M and F480M. This golden pair of medium filters enable the study of multiple rest-frame optical emission lines (e.g., H α , [OIII] doublet, H β and [OII]) within two redshift windows, $z\sim 6$ and 8-9. With two rows of mosaics, we will provide complete spectral coverage with these two medium filters over two complete NIRCcam modules (total area ~ 10 arcmin² per cluster), which is not achievable with grism R or other JWST observing mode. The use of medium filters will suppress the length of grism spectrum to 300-400 pixel, and thus mitigate source confusion issues especially in crowded fields like lensing clusters. In addition, the infrared sky background within medium filters can be suppressed to $\sim 1/3$ of that with wide filters, allowing us to blindly detect faint emission-line galaxies with less request of observing time.

JWST Proposal 2883 (Created: Tuesday, June 11, 2024 at 4:00:24 PM Eastern Standard Time) - Overview

The NIRCам grism spectroscopy will be obtained with eight-group readout with two-point INTRAMODULEX dither and two-point subpixel dither. The total WFSS integration time for each cluster field with each filter is 6184 s. In parallel with the grism exposure at the long-wavelength (LW) channel, we will obtain deep F182M and F210M medium-band imaging at the same time. After the grism exposure, we will obtain direct and out-of-field imaging with five-group SHALLOW4 readout using the F182M/F210M/F360M/F480M filters over an area of ~ 15 arcmin² per cluster field, and the total integration time per field per filter is 3156 s. The depths of the F360M/F480M images allow us to detect any galaxy for which we expect a 5-sigma emission-line detection with the grism exposure.

The NIRISS parallel imaging will be obtained with eight-group two-integration readout with the grism exposures, and twelve-group readout after the grism exposure in F430M and F480M band. The total integration time per NIRISS filter per field is 8824 s. These NIRISS parallel imaging observations will overlap with Cycle-1 NIRISS or NIRCам parallel imaging of these cluster fields at 1-5um, while filters F430M and F480M were not used in these programs. Therefore, our NIRISS observations will facilitate refined photometric selection of emission-line galaxies at high-redshift, further enhancing the legacy value of existing JWST Frontier-Field observations.

Proposal 2883 - Targets - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|------------------|---|---------------------------|---------------|
| (1) | ABELL2744 | RA: 00 14 20.0300 (3.5834583d) Dec: -30 23 17.80 (-30.38828d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | |
| (2) | ABELL370 | RA: 02 39 54.9717 (39.9790487d) Dec: -01 35 16.55 (-1.58793d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | |
| (3) | MCS-J0416.1-2403 | RA: 04 16 9.3548 (64.0389783d) Dec: -24 05 6.55 (-24.08515d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | |
| (4) | MCS-J1149.5+2223 | RA: 11 49 33.9074 (177.3912808d) Dec: +22 23 22.00 (22.38944d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | |

Fixed Targets

Proposal 2883 - Observation 1 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCam in Frontier Fields

Tue Jun 11 21:00:24 GMT 2024

| Observation | Proposal 2883, Observation 1: A2744-F360M Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy Coordinated Parallel Template(s): NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------------------|--------------------------|--------------------|-----------------------|--------------------|---------------------|------------------|-------------------------|---------------|---------------|---|---------------------|--------------------|--------------------------|-----------------|--------------------|--------------------|--|---------------------------|-------------------------|---------------|---------------|-----|---------|-------|----------|---|---|---|---------|--------|--------|--------------|---|
| | (A2744-F360M (Obs 1)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (A2744-F360M (Obs 1)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (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. (Visit 1:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:6) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | <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>ABELL2744</td> <td>RA: 00 14 20.0300 (3.5834583d) Dec: -30 23 17.80 (-30.38828d) Equinox: J2000</td> <td>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=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (1) | ABELL2744 | RA: 00 14 20.0300 (3.5834583d) Dec: -30 23 17.80 (-30.38828d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | ABELL2744 | RA: 00 14 20.0300 (3.5834583d) Dec: -30 23 17.80 (-30.38828d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIRCam Wide Field Slitless Spectroscopy | | | | | | NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | Module: ALL Subarray: FULL Grism (Long Wavelength): GRISMC Show partial spectra region in Aladin: false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>80.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table> | | | | | | | | | | | | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | 2 | 1 | 80.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | |
| Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 80.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-POINT-MEDIUM-WITH-NIRISS</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-POINT-MEDIUM-WITH-NIRISS</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>NIRCam Wide Field Slitless Spectroscopy</th> <th>Short Filter</th> <th>Long 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> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F182M</td> <td>F360M</td> <td>SHALLOW4</td> <td>5</td> <td>2</td> <td>2</td> <td>526.102</td> <td>140506</td> <td>GRISMC</td> <td>Direct Image</td> <td>1</td> </tr> </tbody> </table> | | | | | | | | | | | | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | 1 | F182M | F360M | SHALLOW4 | 5 | 2 | 2 | 526.102 | 140506 | GRISMC | Direct Image | 1 |
| | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F182M | F360M | SHALLOW4 | 5 | 2 | 2 | 526.102 | 140506 | GRISMC | Direct Image | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direct Image | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 2883 - Observation 1 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

| Spectral Elements | NIRCam Wide Field Slitless Spectroscopy | | | | | | | | | | | |
|-------------------|---|-------------|-----------------|------------|------------------|--------------------|---------------------|------------------|-------------------------|-------------------------|---------------|--|
| | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | |
| | F182M | F360M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 | |
| 2 | F182M | F360M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | 140506 | | Out of Field | 2 | |

| Spectral Elements | NIRISS Imaging | | | | | | | | | | |
|-------------------|----------------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|--------|--|
| | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | |
| | 1 | F430M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | 140506 | |
| | 2 | F430M | | NIS | 12 | 1 | 1 | 1 | 526.102 | 140506 | |
| 3 | F430M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | 140506 | | |

| Special Requirements | Group Visits within 53.0 Days | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|
| | Aperture PA Range 36 to 46 Degrees (V3 36.0 to 46.0) | | | | | | | | | | | |
| | Visits Same PA | | | | | | | | | | | |
| | Offset -40.0 arcsec, 30.0 arcsec | | | | | | | | | | | |
| | No Parallel Attachments | | | | | | | | | | | |
| | Background Limited. Background no more than 20th percentile above minimum | | | | | | | | | | | |
| | Aperture PA Offset 1 from 2 by -5 to +5 Degrees (Same offsets in V3) | | | | | | | | | | | |

Proposal 2883 - Observation 2 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

Tue Jun 11 21:00:24 GMT 2024

| Observation | Proposal 2883, Observation 2: A2744-F480M Diagnostic Status: Warning Observing Template: NIRCcam Wide Field Slitless Spectroscopy Coordinated Parallel Template(s): NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---------------------------|--------------------------|-----------------|--------------------|--------------------|---------------------|------------------|-------------------------|---------------|---------------|--|---------------------|--------------------|--------------------------|-----------------|--------------------|--------------------|--|---------------------------|-------------------------|--|---------------|-----|---------|-------|----------|---|---|---|---------|--------|--------|--------------|---|
| | (A2744-F480M (Obs 2)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (A2744-F480M (Obs 2)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (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. (Visit 2:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 2:6) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | ABELL2744 | RA: 00 14 20.0300 (3.5834583d) Dec: -30 23 17.80 (-30.38828d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | NIRCcam Wide Field Slitless Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NIRISS Imaging Module: ALL Subarray: FULL Grism (Long Wavelength): GRISMC Show partial spectra region in Aladin: false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | <table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>60.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table> | | | | | | | | | | | | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | 2 | 1 | 60.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | |
| | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 60.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-Point</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-Point | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-Point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direct Image | <table border="1"> <thead> <tr> <th>NIRCcam Wide Field Slitless Spectroscopy</th> <th>Short Filter</th> <th>Long 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> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F210M</td> <td>F480M</td> <td>SHALLOW4</td> <td>5</td> <td>2</td> <td>2</td> <td>526.102</td> <td>140506</td> <td>GRISMC</td> <td>Direct Image</td> <td>1</td> </tr> </tbody> </table> | | | | | | | | | | | | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | 1 | F210M | F480M | SHALLOW4 | 5 | 2 | 2 | 526.102 | 140506 | GRISMC | Direct Image | 1 |
| | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F210M | F480M | SHALLOW4 | 5 | 2 | 2 | 526.102 | 140506 | GRISMC | Direct Image | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 2883 - Observation 2 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCam in Frontier Fields

| Spectral Elements | NIRCam Wide Field Slitless Spectroscopy | | | | | | | | | | | |
|-------------------|---|-------------|-----------------|------------|------------------|--------------------|---------------------|------------------|-------------------------|-------------------------|---------------|--|
| | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | |
| | | | | | p | | | | | | | |
| 1 | F210M | F480M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 | |
| 2 | F210M | F480M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | 140506 | | Out of Field | 2 | |

| Spectral Elements | NIRISS Imaging | | | | | | | | | | |
|-------------------|----------------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|--|--|
| | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | F480M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | 140506 | | |
| 2 | F480M | | NIS | 12 | 1 | 1 | 1 | 526.102 | 140506 | | |
| 3 | F480M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | 140506 | | |

| Special Requirements | Special Requirements | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| | Group Visits within 53.0 Days Aperture PA Range 36 to 46 Degrees (V3 36.0 to 46.0) Visits Same PA Offset -40.0 arcsec, -30.0 arcsec No Parallel Attachments Background Limited. Background no more than 20th percentile above minimum Aperture PA Offset 1 from 2 by -5 to +5 Degrees (Same offsets in V3) | | | | | | | | | | |
| | | | | | | | | | | | |

Proposal 2883 - Observation 3 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

| Spectral Elements | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers |
|-------------------|--|--------------|-------------|-----------------|------------|------------------|--------------------|---------------------|------------------|-------------------------|-------------------------|---------------|
| | 1 | F182M | F360M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 |
| | 2 | F182M | F360M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 |

| Spectral Elements | NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|-------------------|----------------|--------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|
| | 1 | F430M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | |
| | 2 | F430M | | NIS | 12 | 1 | 1 | 1 | 526.102 | |
| | 3 | F430M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | |

| Special Requirements | Group Visits within 53.0 Days |
|----------------------|--|
| | Aperture PA Range 244 to 251 Degrees (V3 244.0 to 251.0) Visits Same PA Offset -40.0 arcsec, 30.0 arcsec No Parallel Attachments Aperture PA Offset 4 from 3 by -5 to 5 Degrees (Same offsets in V3) |

Proposal 2883 - Observation 4 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

| Spectral Elements | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers |
|-------------------|--|--------------|-------------|-----------------|------------|------------------|--------------------|---------------------|------------------|-------------------------|-------------------------|---------------|
| | 1 | F210M | F480M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 |
| | 2 | F210M | F480M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 |

| Spectral Elements | NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|-------------------|----------------|--------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|
| | 1 | F480M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | |
| | 2 | F480M | | NIS | 12 | 1 | 1 | 1 | 526.102 | |
| | 3 | F480M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | |

| Special Requirements | Group Visits within 53.0 Days |
|----------------------|---|
| | Aperture PA Range 244 to 251 Degrees (V3 244.0 to 251.0) Visits Same PA Offset -40.0 arcsec, -30.0 arcsec No Parallel Attachments Aperture PA Offset 4 from 3 by -5 to 5 Degrees (Same offsets in V3) |

Proposal 2883 - Observation 5 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCam in Frontier Fields

Tue Jun 11 21:00:24 GMT 2024

| Observation | Proposal 2883, Observation 5: M0416-F360M Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy Coordinated Parallel Template(s): NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------------------|--------------------------|--------------------|-----------------------|--------------------|---------------------|------------------|-------------------------|-------------------------|---------------|---|---------------------|--------------------|--------------------------|-----------------|--------------------|--------------------|---|---------------------------|-------------------------|---------------|---------------|-----|---------|-------|----------|---|---|---|---------|--|--------|-------------------------|---|---|-------|-------|----------|---|---|---|----------|--|--|--------------|---|
| | (M0416-F360M (Obs 5)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (M0416-F360M (Obs 5)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 5:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 5:1) 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. (Visit 5:2) 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | <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>(3)</td> <td>MCS-J0416.1-2403</td> <td>RA: 04 16 9.3548 (64.0389783d) Dec: -24 05 6.55 (-24.08515d) Equinox: J2000</td> <td>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=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (3) | MCS-J0416.1-2403 | RA: 04 16 9.3548 (64.0389783d) Dec: -24 05 6.55 (-24.08515d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (3) | MCS-J0416.1-2403 | RA: 04 16 9.3548 (64.0389783d) Dec: -24 05 6.55 (-24.08515d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIRCam Wide Field Slitless Spectroscopy | | | | | | NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | Module: ALL Subarray: FULL Grism (Long Wavelength): GRISMC Show partial spectra region in Aladin: false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>80.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table> | | | | | | | | | | | | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | 2 | 1 | 80.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | |
| Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 80.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-POINT-MEDIUM-WITH-NIRISS</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-POINT-MEDIUM-WITH-NIRISS</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>NIRCam Wide Field Slitless Spectroscopy</th> <th>Short Filter</th> <th>Long 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> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F182M</td> <td>F360M</td> <td>SHALLOW4</td> <td>5</td> <td>2</td> <td>2</td> <td>526.102</td> <td></td> <td>GRISMC</td> <td>Direct Image</td> <td>1</td> </tr> </tbody> </table> | | | | | | | | | | | | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | 1 | F182M | F360M | SHALLOW4 | 5 | 2 | 2 | 526.102 | | GRISMC | Direct Image | 1 | | | | | | | | | | | | |
| | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F182M | F360M | SHALLOW4 | 5 | 2 | 2 | 526.102 | | GRISMC | Direct Image | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direct Image | <table border="1"> <thead> <tr> <th>NIRCam Wide Field Slitless Spectroscopy</th> <th>Short Filter</th> <th>Long 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> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F182M</td> <td>F360M</td> <td>MEDIUM2</td> <td>8</td> <td>1</td> <td>4</td> <td>3092.19</td> <td></td> <td>GRISMC</td> <td>Grism (Long Wavelength)</td> <td>4</td> </tr> <tr> <td>2</td> <td>F182M</td> <td>F360M</td> <td>SHALLOW4</td> <td>5</td> <td>2</td> <td>4</td> <td>1052.203</td> <td></td> <td></td> <td>Out of Field</td> <td>2</td> </tr> </tbody> </table> | | | | | | | | | | | | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | 1 | F182M | F360M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 | 2 | F182M | F360M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 |
| | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | F182M | F360M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | F182M | F360M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spectral Elements | <table border="1"> <thead> <tr> <th>NIRCam Wide Field Slitless Spectroscopy</th> <th>Short Filter</th> <th>Long 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> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F182M</td> <td>F360M</td> <td>MEDIUM2</td> <td>8</td> <td>1</td> <td>4</td> <td>3092.19</td> <td></td> <td>GRISMC</td> <td>Grism (Long Wavelength)</td> <td>4</td> </tr> <tr> <td>2</td> <td>F182M</td> <td>F360M</td> <td>SHALLOW4</td> <td>5</td> <td>2</td> <td>4</td> <td>1052.203</td> <td></td> <td></td> <td>Out of Field</td> <td>2</td> </tr> </tbody> </table> | | | | | | | | | | | | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | 1 | F182M | F360M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 | 2 | F182M | F360M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 |
| | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | F182M | F360M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | F182M | F360M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 2883 - Observation 5 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

| Spectral Elements | NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | |
|----------------------|--|--------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|--|
| | 1 | | F430M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | |
| | 2 | | F430M | | NIS | 12 | 1 | 1 | 1 | 526.102 | |
| | 3 | | F430M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | |
| Special Requirements | Group Visits within 53.0 Days Aperture PA Range 255 to 256 Degrees (V3 255.0 to 256.0) Visits Same PA Offset -40.0 arcsec, 30.0 arcsec No Parallel Attachments | | | | | | | | | | |
| | Aperture PA Offset 6 from 5 by -5 to 5 Degrees (Same offsets in V3) | | | | | | | | | | |

Proposal 2883 - Observation 6 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

Tue Jun 11 21:00:24 GMT 2024

| Observation | Proposal 2883, Observation 6: M0416-F480M Diagnostic Status: Warning Observing Template: NIRCcam Wide Field Slitless Spectroscopy Coordinated Parallel Template(s): NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|---|---------------------------|--------------------------|------------------------|---------------------------|---------------------------|----------------------------|---------------------------|--------------------------------|-------------------------|----------------------|---|------|--------------------|--------------------------|---------------|-----|------------------|---|---------------------------|--|
| | (M0416-F480M (Obs 6)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (M0416-F480M (Obs 6)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | <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>(3)</td> <td>MCS-J0416.1-2403</td> <td>RA: 04 16 9.3548 (64.0389783d) Dec: -24 05 6.55 (-24.08515d) Equinox: J2000</td> <td>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.</i> <i>Category=Clusters of Galaxies</i> <i>Description=[Abell clusters, Rich clusters]</i></p> | | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (3) | MCS-J0416.1-2403 | RA: 04 16 9.3548 (64.0389783d) Dec: -24 05 6.55 (-24.08515d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | |
| (3) | MCS-J0416.1-2403 | RA: 04 16 9.3548 (64.0389783d) Dec: -24 05 6.55 (-24.08515d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | | | | | | | | | | | | | | | | | | | | | | |
| Template | NIRCcam Wide Field Slitless Spectroscopy | | | | | | NIRISS Imaging | | | | | | | | | | | | | | | |
| | Module: ALL Subarray: FULL Grism (Long Wavelength): GRISMC Show partial spectra region in Aladin: false | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | | | | | | | | | | | | | | | |
| | 2 | 1 | 60.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | |
| Dithers | # | Primary Dither Type | | | | Primary Dithers | | | Subpixel Positions | | | | | | | | | | | | | |
| | 1 | INTRAMODULEBOX | | | | 2 | | | 2-Point | | | | | | | | | | | | | |
| Direct Image | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | |
| | 1 | F210M | F480M | SHALLOW4 | 5 | 2 | 2 | 526.102 | | GRISMC | Direct Image | 1 | | | | | | | | | | |
| Spectral Elements | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | |
| | 1 | F210M | F480M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 | | | | | | | | | | |
| | 2 | F210M | F480M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 | | | | | | | | | | |

Proposal 2883 - Observation 6 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

| Spectral Elements | NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | |
|----------------------|---|--------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|--|
| | 1 | | F480M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | |
| | 2 | | F480M | | NIS | 12 | 1 | 1 | 1 | 526.102 | |
| | 3 | | F480M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | |
| Special Requirements | Group Visits within 53.0 Days Aperture PA Range 255 to 256 Degrees (V3 255.0 to 256.0) Visits Same PA Offset -40.0 arcsec, -30.0 arcsec No Parallel Attachments | | | | | | | | | | |
| | Aperture PA Offset 6 from 5 by -5 to 5 Degrees (Same offsets in V3) | | | | | | | | | | |

Proposal 2883 - Observation 7 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCam in Frontier Fields

Tue Jun 11 21:00:24 GMT 2024

| Observation | Proposal 2883, Observation 7: M1149-F360M Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy Coordinated Parallel Template(s): NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------------------|--------------------------|--------------------|-----------------------|--------------------|---------------------|------------------|-------------------------|---------------|---------------|---|---------------------|--------------------|--------------------------|-----------------|--------------------|--------------------|---|---------------------------|-------------------------|---------------|---------------|-----|---------|-------|----------|---|---|---|---------|--|--------|--------------|---|
| | (M1149-F360M (Obs 7)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (M1149-F360M (Obs 7)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 7:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 7:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 7:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 7:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 7:6) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 7:5) 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. (Visit 7:6) 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | <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>(4)</td> <td>MCS-J1149.5+2223</td> <td>RA: 11 49 33.9074 (177.3912808d) Dec: +22 23 22.00 (22.38944d) Equinox: J2000</td> <td>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=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (4) | MCS-J1149.5+2223 | RA: 11 49 33.9074 (177.3912808d) Dec: +22 23 22.00 (22.38944d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (4) | MCS-J1149.5+2223 | RA: 11 49 33.9074 (177.3912808d) Dec: +22 23 22.00 (22.38944d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIRCam Wide Field Slitless Spectroscopy | | | | | | NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | Module: ALL Subarray: FULL Grism (Long Wavelength): GRISMC Show partial spectra region in Aladin: false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>80.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table> | | | | | | | | | | | | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | 2 | 1 | 80.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | |
| Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 80.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-POINT-MEDIUM-WITH-NIRISS</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-POINT-MEDIUM-WITH-NIRISS</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-POINT-MEDIUM-WITH-NIRISS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>NIRCam Wide Field Slitless Spectroscopy</th> <th>Short Filter</th> <th>Long 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> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F182M</td> <td>F360M</td> <td>SHALLOW4</td> <td>5</td> <td>2</td> <td>2</td> <td>526.102</td> <td></td> <td>GRISMC</td> <td>Direct Image</td> <td>1</td> </tr> </tbody> </table> | | | | | | | | | | | | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | 1 | F182M | F360M | SHALLOW4 | 5 | 2 | 2 | 526.102 | | GRISMC | Direct Image | 1 |
| | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F182M | F360M | SHALLOW4 | 5 | 2 | 2 | 526.102 | | GRISMC | Direct Image | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direct Image | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 2883 - Observation 7 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCam in Frontier Fields

| Spectral Elements | NIRCam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers |
|-------------------|---|--------------|-------------|-----------------|------------|------------------|--------------------|---------------------|------------------|-------------------------|-------------------------|---------------|
| | 1 | F182M | F360M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 |
| | 2 | F182M | F360M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 |

| Spectral Elements | NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|-------------------|----------------|--------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|
| | 1 | F430M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | |
| | 2 | F430M | | NIS | 12 | 1 | 1 | 1 | 526.102 | |
| | 3 | F430M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | |

| Special Requirements | Group Visits within 53.0 Days |
|----------------------|--|
| | Aperture PA Range 297 to 307 Degrees (V3 297.0 to 307.0) Visits Same PA Offset -40.0 arcsec, 30.0 arcsec No Parallel Attachments Aperture PA Offset 8 from 7 by -5 to 5 Degrees (Same offsets in V3) |

Proposal 2883 - Observation 8 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

Tue Jun 11 21:00:24 GMT 2024

| Observation | Proposal 2883, Observation 8: M1149-F480M Diagnostic Status: Warning Observing Template: NIRCcam Wide Field Slitless Spectroscopy Coordinated Parallel Template(s): NIRISS Imaging | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|---|---------------------------|--------------------------|-----------------|--------------------|--------------------|---------------------|------------------|-------------------------|---------------|---------------|--|---------------------|--------------------|--------------------------|-----------------|--------------------|--------------------|---|---------------------------|-------------------------|---------------|---------------|-----|---------|-------|----------|---|---|---|---------|--|--------|--------------|---|
| | (M1149-F480M (Obs 8)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (M1149-F480M (Obs 8)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 8:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 8:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 8:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 8:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 8:6) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 8:5) 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. (Visit 8:6) 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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>(4)</td> <td>MCS-J1149.5+2223</td> <td>RA: 11 49 33.9074 (177.3912808d) Dec: +22 23 22.00 (22.38944d) Equinox: J2000</td> <td>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=Clusters of Galaxies Description=[Abell clusters, Rich clusters]</i></p> | | | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | (4) | MCS-J1149.5+2223 | RA: 11 49 33.9074 (177.3912808d) Dec: +22 23 22.00 (22.38944d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (4) | MCS-J1149.5+2223 | RA: 11 49 33.9074 (177.3912808d) Dec: +22 23 22.00 (22.38944d) Equinox: J2000 | Epoch of Position: 2015.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Template | NIRCcam Wide Field Slitless Spectroscopy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NIRISS Imaging Module: ALL Subarray: FULL Grism (Long Wavelength): GRISMC Show partial spectra region in Aladin: false | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mosaic | <table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>60.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table> | | | | | | | | | | | | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | 2 | 1 | 60.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | |
| | Rows | Columns | Row Overlap % | Column Overlap % | Row shift (deg) | Column shift (deg) | Tile Order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 60.0 | 10.0 | 0.0 | 0.0 | DEFAULT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dithers | <table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>2</td> <td>2-Point</td> </tr> </tbody> </table> | | | | | | | | | | | | # | Primary Dither Type | Primary Dithers | Subpixel Positions | 1 | INTRAMODULEBOX | 2 | 2-Point | | | | | | | | | | | | | | | | |
| | # | Primary Dither Type | Primary Dithers | Subpixel Positions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | INTRAMODULEBOX | 2 | 2-Point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direct Image | <table border="1"> <thead> <tr> <th>NIRCcam Wide Field Slitless Spectroscopy</th> <th>Short Filter</th> <th>Long 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> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F210M</td> <td>F480M</td> <td>SHALLOW4</td> <td>5</td> <td>2</td> <td>2</td> <td>526.102</td> <td></td> <td>GRISMC</td> <td>Direct Image</td> <td>1</td> </tr> </tbody> </table> | | | | | | | | | | | | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | 1 | F210M | F480M | SHALLOW4 | 5 | 2 | 2 | 526.102 | | GRISMC | Direct Image | 1 |
| | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F210M | F480M | SHALLOW4 | 5 | 2 | 2 | 526.102 | | GRISMC | Direct Image | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 2883 - Observation 8 - MAGNIF: Medium-band Astrophysics with the Grism of NIRCcam in Frontier Fields

| Spectral Elements | NIRCcam Wide Field Slitless Spectroscopy | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID | Grism (Long Wavelength) | Exposure Type | Total Dithers |
|-------------------|--|--------------|-------------|-----------------|------------|------------------|--------------------|---------------------|------------------|-------------------------|-------------------------|---------------|
| | 1 | F210M | F480M | MEDIUM2 | 8 | 1 | 4 | 3092.19 | | GRISMC | Grism (Long Wavelength) | 4 |
| | 2 | F210M | F480M | SHALLOW4 | 5 | 2 | 4 | 1052.203 | | | Out of Field | 2 |

| Spectral Elements | NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|-------------------|----------------|--------|-------|-----------------|------------|------------------|---------------|--------------------|---------------------|------------------|
| | 1 | F480M | | NIS | 8 | 2 | 4 | 8 | 2834.507 | |
| | 2 | F480M | | NIS | 12 | 1 | 1 | 1 | 526.102 | |
| | 3 | F480M | | NIS | 12 | 1 | 2 | 2 | 1052.203 | |

| Special Requirements | Group Visits within 53.0 Days |
|----------------------|---|
| | Aperture PA Range 297 to 307 Degrees (V3 297.0 to 307.0) Visits Same PA Offset -40.0 arcsec, -30.0 arcsec No Parallel Attachments Aperture PA Offset 8 from 7 by -5 to 5 Degrees (Same offsets in V3) |