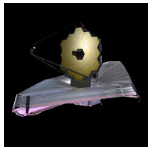

# 5989 - The JWST SBF Coma Cluster Survey: Building an Alternative Precision Distance Ladder for Cosmology

Cycle: 3, Proposal Category: GO

**INVESTIGATORS**

| *Name* | *Institution* |
|---|---|
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| Dr. Gabriella Raimondo (CoI) (ESA Member) | INAF - Osservatorio Astronomico d'Abruzzo |

**OBSERVATIONS**

| *Folder* | *Observation* | *Label* | *Observing Template* | *Science Target* |
|---|---|---|---|---|
| Observation Folder | | | | |
| | 1 | NGC-4860 | NIRCam Imaging | (1) NGC-4860 |
| | 2 | NGC-4865 | NIRCam Imaging | (2) NGC-4865 |

| *Folder* | *Observation* | *Label* | *Observing Template* | *Science Target* |
|---|---|---|---|---|
| | 3 | NGC-4869 | NIRCam Imaging | (3) NGC-4869 |
| | 4 | NGC-4889 | NIRCam Imaging | (4) NGC-4889 |
| | 5 | NGC-4883 | NIRCam Imaging | (5) NGC-4883 |
| | 6 | NGC-4876 | NIRCam Imaging | (6) NGC-4876 |
| | 7 | NGC-4874 | NIRCam Imaging | (7) NGC-4874 |
| | 8 | NGC-4875 | NIRCam Imaging | (8) NGC-4875 |
| | 9 | NGC-4898 | NIRCam Imaging | (9) NGC-4898 |
| | 10 | IC-4012 | NIRCam Imaging | (10) IC-4012 |
| | 11 | IC-4026 | NIRCam Imaging | (11) IC-4026 |
| | 12 | IC-4030 | NIRCam Imaging | (12) IC-4030 |
| | 13 | IC-3955 | NIRCam Imaging | (13) IC-3955 |
| | 14 | IC-4041 | NIRCam Imaging | (14) IC-4041 |
| | 15 | IC-4042 | NIRCam Imaging | (15) IC-4042 |
| | 16 | NGC-4864 | NIRCam Imaging | (16) NGC-4864 |
| | 17 | NGC-4895A | NIRCam Imaging | (17) NGC-4895A |
| | 18 | IC-3960 | NIRCam Imaging | (18) IC-3960 |
| | 19 | NGC-4906 | NIRCam Imaging | (19) NGC-4906 |
| | 20 | IC-4051 | NIRCam Imaging | (20) IC-4051 |
| | 21 | IC-4045 | NIRCam Imaging | (21) IC-4045 |
| | 22 | IC-3959 | NIRCam Imaging | (22) IC-3959 |
| | 23 | NGC-4881 | NIRCam Imaging | (23) NGC-4881 |
| | 24 | NGC-4850 | NIRCam Imaging | (24) NGC-4850 |
| | 25 | NGC-4851 | NIRCam Imaging | (25) NGC-4851 |
| | 26 | NGC-4919 | NIRCam Imaging | (26) NGC-4919 |
| | 27 | NGC-4854 | NIRCam Imaging | (27) NGC-4854 |
| | 28 | NGC-4853 | NIRCam Imaging | (28) NGC-4853 |
| | 29 | NGC-4927 | NIRCam Imaging | (29) NGC-4927 |
| | 31 | NGC-4908 | NIRCam Imaging | (31) NGC-4908 |
| | 30 | CGCG-160-223 | NIRCam Imaging | (30) CGCG-160-223 |
| | 32 | NGC-4923 | NIRCam Imaging | (32) NGC-4923 |
| | 33 | NGC-4873 | NIRCam Imaging | (33) NGC-4873 |
| | 34 | CGCG-160-065 | NIRCam Imaging | (34) CGCG-160-065 |

| *Folder* | *Observation* | *Label* | *Observing Template* | *Science Target* |
|---|---|---|---|---|
| | 35 | NGC-4926 | NIRCam Imaging | (35) NGC-4926 |
| | 36 | NGC-4841A | NIRCam Imaging | (36) NGC-4841A |
| | 37 | NGC-4839 | NIRCam Imaging | (37) NGC-4839 |
| | 38 | NGC-4816 | NIRCam Imaging | (38) NGC-4816 |
| | 39 | 2MASX-J12590459+2754389 | NIRCam Imaging | (39) 2MASX-J12590459+2754389 |

**ABSTRACT**

The Coma cluster is the nearest rich cluster in the universe and a key touchstone for the extragalactic distance scale. Precise extragalactic distances are at the heart of the “Hubble tension” controversy, the most important problem in cosmology today. To address this problem, we will image more than 100 fields centered on 39 of the largest elliptical galaxies in the Coma cluster. We will measure surface brightness fluctuations (SBF) for more than 40 galaxies (depending somewhat on the field orientations), calibrate the color dependence of SBF magnitudes, and study the galaxy and globular cluster population properties in Coma. The SBF distance scale zero point will be set by scheduled JWST observations of the tip of the red giant branch in local elliptical galaxies. The Coma cluster observations are required to establish the SBF calibration as a function of galaxy age and metallicity in rich clusters, where future JWST observations will yield distances out to several hundred Mpc. The resulting calibration will enable an independent, high-precision determination of the cosmological distance scale in the local universe using a technique with precision comparable to that of Type Ia supernovae, but requiring only a single observation per measurement. The ability to measure precision distances efficiently will be an important step towards the ultimate goal of measuring H0 to 1% and resolving the Hubble constant controversy.

**OBSERVING DESCRIPTION**

The F150W observations of 39 target galaxies will be kept simple by observing in a single primary filter and not requiring a fixed orientation for the secondary fields. We have optimized the offsets for each target to place the galaxy in one of the two NIRCAM modules and to increase the liklihood of getting secondary targets for the expected PA range for the observing dates we are likely to be assigned. There are three observing windows available for these targets, and two of them have the same range in PA. We would be happy to provide a second set of observations optimized for the other observing window. The goal is to get the main target galaxy and as many nearby galaxies as possible by tweaking the pointing and without constraining the scheduling of the observations. Field orientations have been entered as a Special Requirement for display purposes only.

All the observations will use the same exposure time using the BRIGHT2 readout mode and 9 groups per integration to correct for cosmic rays. We will use both NIRCAM channels in FULL readout mode. We will collect 4 dither positions using the INTRAMODULEBOX offsets to fill the small detector gaps while maintaining a maximum area of the highest S/N. Sub-pixel dithering is not needed (and not desired) for the SBF measurements. We will collect F356W images in the NIRCAM long-wave channel for photometry and calibration purposes.

We will collect parallel F150W NIRISS fields for as many of the targets as possible, at whatever position angle they happen to be, so we can augment the number of globular clusters and dwarf galaxies imaged. This will add value to the resulting dataset when combined with existing ground-based optical color information.

Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (1) | NGC-4860 | RA: 12 59 3.9000 (194.7662500d)<br>Dec: +28 07 25.32 (28.12370d)<br>Equinox: J2000 | | |
| *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies, Giant elliptical galaxies]<br>Extended=YES* | | | | |
| (2) | NGC-4865 | RA: 12 59 19.8696 (194.8327900d)<br>Dec: +28 05 3.52 (28.08431d)<br>Equinox: J2000 | | |
| *Comments: This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | | | |
| (3) | NGC-4869 | RA: 12 59 23.3640 (194.8473500d)<br>Dec: +27 54 41.72 (27.91159d)<br>Equinox: J2000 | | |
| *Comments: This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | | | |
| (4) | NGC-4889 | RA: 13 00 8.0970 (195.0337375d)<br>Dec: +27 58 37.29 (27.97702d)<br>Equinox: J2000 | Epoch of Position: 2015.5 | |
| *Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=Galaxy<br>Description=[Brightest cluster galaxies, Elliptical galaxies, Giant elliptical galaxies]<br>Extended=YES* | | | | |
| (5) | NGC-4883 | RA: 12 59 56.0136 (194.9833900d)<br>Dec: +28 02 4.99 (28.03472d)<br>Equinox: J2000 | | |
| *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | | | |
| (6) | NGC-4876 | RA: 12 59 44.4048 (194.9350200d)<br>Dec: +27 54 44.86 (27.91246d)<br>Equinox: J2000 | | |
| *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | | | |
| (7) | NGC-4874 | RA: 12 59 35.7072 (194.8987800d)<br>Dec: +27 57 33.37 (27.95927d)<br>Equinox: J2000 | | |
| *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Brightest cluster galaxies, Elliptical galaxies, Giant elliptical galaxies]<br>Extended=YES* | | | | |

| | | |
|---|---|---|
| (8) | NGC-4875 | RA: 12 59 37.9080 (194.9079500d)<br>Dec: +27 54 26.39 (27.90733d)<br>Equinox: J2000 |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

| | | |
|---|---|---|
| (9) | NGC-4898 | RA: 13 00 18.0000 (195.0750000d)<br>Dec: +27 57 25.99 (27.95722d)<br>Equinox: J2000 |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

| | | |
|---|---|---|
| (10) | IC-4012 | RA: 13 00 7.9896 (195.0332900d)<br>Dec: +28 04 42.85 (28.07857d)<br>Equinox: J2000 |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

| | | |
|---|---|---|
| (11) | IC-4026 | RA: 13 00 22.1352 (195.0922300d)<br>Dec: +28 02 49.24 (28.04701d)<br>Equinox: J2000 |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

| | | |
|---|---|---|
| (12) | IC-4030 | RA: 13 00 27.9696 (195.1165400d)<br>Dec: +27 57 21.53 (27.95598d)<br>Equinox: J2000 |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

| | | |
|---|---|---|
| (13) | IC-3955 | RA: 12 59 6.0264 (194.7751100d)<br>Dec: +27 59 48.12 (27.99670d)<br>Equinox: J2000 |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

| | | |
|---|---|---|
| (14) | IC-4041 | RA: 13 00 40.8504 (195.1702100d)<br>Dec: +27 59 47.80 (27.99661d)<br>Equinox: J2000 |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(15) IC-4042
RA: 13 00 42.7704 (195.1782100d)
Dec: +27 58 17.00 (27.97139d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(16) NGC-4864
RA: 12 59 13.1088 (194.8046200d)
Dec: +27 58 37.20 (27.97700d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(17) NGC-4895A
RA: 13 00 9.1152 (195.0379800d)
Dec: +28 10 13.44 (28.17040d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(18) IC-3960
RA: 12 59 7.9608 (194.7831700d)
Dec: +27 51 18.00 (27.85500d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(19) NGC-4906
RA: 13 00 39.7680 (195.1657000d)
Dec: +27 55 26.04 (27.92390d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(20) IC-4051
RA: 13 00 51.5592 (195.2148300d)
Dec: +28 02 34.12 (28.04281d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(21) IC-4045
RA: 13 00 48.6408 (195.2026700d)
Dec: +28 05 26.81 (28.09078d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(22) IC-3959
RA: 12 59 8.2008 (194.7841700d)
Dec: +27 47 2.87 (27.78413d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(23) NGC-4881
RA: 12 59 57.6000 (194.9900000d)
Dec: +28 14 50.60 (28.24739d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(24) NGC-4850
RA: 12 58 21.8400 (194.5910000d)
Dec: +27 58 3.79 (27.96772d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(25) NGC-4851
RA: 12 58 21.7056 (194.5904400d)
Dec: +28 08 55.54 (28.14876d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(26) NGC-4919
RA: 13 01 17.5920 (195.3233000d)
Dec: +27 48 32.72 (27.80909d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(27) NGC-4854
RA: 12 58 47.4024 (194.6975100d)
Dec: +27 40 29.06 (27.67474d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(28) NGC-4853
RA: 12 58 35.1912 (194.6466300d)
Dec: +27 35 46.79 (27.59633d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(29) NGC-4927
RA: 13 01 57.6000 (195.4900000d)
Dec: +28 00 21.20 (28.00589d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(30) CGCG-160-223
RA: 12 59 13.9200 (194.8080000d)
Dec: +28 04 34.50 (28.07625d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(31) NGC-4908
RA: 13 00 54.4608 (195.2269200d)
Dec: +28 00 27.50 (28.00764d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(32) NGC-4923
RA: 13 01 31.8000 (195.3825000d)
Dec: +27 50 51.11 (27.84753d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(33) NGC-4873
RA: 12 59 32.7936 (194.8866400d)
Dec: +27 59 0.96 (27.98360d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(34) CGCG-160-065
RA: 12 58 30.2040 (194.6258500d)
Dec: +28 00 53.10 (28.01475d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

(35) NGC-4926
RA: 13 01 53.7312 (195.4738800d)
Dec: +27 37 28.02 (27.62445d)
Equinox: J2000

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

| | | | |
|---|---|---|---|
| | (36) | NGC-4841A | RA: 12 57 31.9536 (194.3831400d)<br>Dec: +28 28 36.98 (28.47694d)<br>Equinox: J2000 |
| | *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | |
| | (37) | NGC-4839 | RA: 12 57 24.3624 (194.3515100d)<br>Dec: +27 29 52.15 (27.49782d)<br>Equinox: J2000 |
| | *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | |
| | (38) | NGC-4816 | RA: 12 56 12.1488 (194.0506200d)<br>Dec: +27 44 43.73 (27.74548d)<br>Equinox: J2000 |
| | *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | |
| | (39) | 2MASX-J12590459+2754389 | RA: 12 59 4.6392 (194.7693300d)<br>Dec: +27 54 39.53 (27.91098d)<br>Equinox: J2000 |
| | *Comments: This object was generated by the targetselector and retrieved from the NED database.<br>Category=Galaxy<br>Description=[Elliptical galaxies]<br>Extended=YES* | | |

## Observation

**Proposal 5989, Observation 1: NGC-4860**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

*Comments: The orientation Special Requrements are included here for visualization purposes only. Any orientation is acceptable to maximize scheduling flexibility.*

## Diagnostics

(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (1) | NGC-4860 | RA: 12 59 3.9000 (194.7662500d)<br>Dec: +28 07 25.32 (28.12370d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies, Giant elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | 18109 |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -75.0 arcsec, -15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 2: NGC-4865**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (2) | NGC-4865 | RA: 12 59 19.8696 (194.8327900d)<br>Dec: +28 05 3.52 (28.08431d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -50.0 arcsec, 20.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 3: NGC-4869**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (3) | NGC-4869 | RA: 12 59 23.3640 (194.8473500d)<br>Dec: +27 54 41.72 (27.91159d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 75.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 4: NGC-4889**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (4) | NGC-4889 | RA: 13 00 8.0970 (195.0337375d)<br>Dec: +27 58 37.29 (27.97702d)<br>Equinox: J2000 | Epoch of Position: 2015.5 | |

*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*
*Category=Galaxy*
*Description=[Brightest cluster galaxies, Elliptical galaxies, Giant elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 5: NGC-4883** Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## 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 |
|---|---|---|---|---|
| (5) | NGC-4883 | RA: 12 59 56.0136 (194.9833900d)<br>Dec: +28 02 4.99 (28.03472d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -120.0 arcsec, -30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 6: NGC-4876**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (6) | NGC-4876 | RA: 12 59 44.4048 (194.9350200d)<br>Dec: +27 54 44.86 (27.91246d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -105.0 arcsec, 25.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 7: NGC-4874**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## 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 |
|---|---|---|---|---|
| (7) | NGC-4874 | RA: 12 59 35.7072 (194.8987800d)<br>Dec: +27 57 33.37 (27.95927d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Brightest cluster galaxies, Elliptical galaxies, Giant elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 8: NGC-4875**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## 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 |
|---|---|---|---|---|
| (8) | NGC-4875 | RA: 12 59 37.9080 (194.9079500d)<br>Dec: +27 54 26.39 (27.90733d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 80.0 arcsec, -15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 9: NGC-4898**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (9) | NGC-4898 | RA: 13 00 18.0000 (195.0750000d)<br>Dec: +27 57 25.99 (27.95722d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -100.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 10: IC-4012**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (10) | IC-4012 | RA: 13 00 7.9896 (195.0332900d)<br>Dec: +28 04 42.85 (28.07857d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -110.0 arcsec, -30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 11: IC-4026**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (11) | IC-4026 | RA: 13 00 22.1352 (195.0922300d)<br>Dec: +28 02 49.24 (28.04701d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -50.0 arcsec, 40.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 12: IC-4030**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (12) | IC-4030 | RA: 13 00 27.9696 (195.1165400d)<br>Dec: +27 57 21.53 (27.95598d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -125.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 13: IC-3955** Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (13) | IC-3955 | RA: 12 59 6.0264 (194.7751100d)<br>Dec: +27 59 48.12 (27.99670d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 14: IC-4041**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (14) | IC-4041 | RA: 13 00 40.8504 (195.1702100d)<br>Dec: +27 59 47.80 (27.99661d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -130.0 arcsec, 30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 15: IC-4042**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (15) | IC-4042 | RA: 13 00 42.7704 (195.1782100d)<br>Dec: +27 58 17.00 (27.97139d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -75.0 arcsec, -30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 16: NGC-4864**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (16) | NGC-4864 | RA: 12 59 13.1088 (194.8046200d)<br>Dec: +27 58 37.20 (27.97700d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -60.0 arcsec, -25.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 17: NGC-4895A**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (17) | NGC-4895A | RA: 13 00 9.1152 (195.0379800d)<br>Dec: +28 10 13.44 (28.17040d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -55.0 arcsec, -35.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 18: IC-3960**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (18) | IC-3960 | RA: 12 59 7.9608 (194.7831700d)<br>Dec: +27 51 18.00 (27.85500d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -60.0 arcsec, 30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 19: NGC-4906**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (19) | NGC-4906 | RA: 13 00 39.7680 (195.1657000d)<br>Dec: +27 55 26.04 (27.92390d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -120.0 arcsec, 20.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 20: IC-4051**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (20) | IC-4051 | RA: 13 00 51.5592 (195.2148300d)<br>Dec: +28 02 34.12 (28.04281d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 21: IC-4045**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (21) | IC-4045 | RA: 13 00 48.6408 (195.2026700d)<br>Dec: +28 05 26.81 (28.09078d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 22: IC-3959**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (22) | IC-3959 | RA: 12 59 8.2008 (194.7841700d)<br>Dec: +27 47 2.87 (27.78413d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, -40.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 23: NGC-4881** Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (23) | NGC-4881 | RA: 12 59 57.6000 (194.9900000d)<br>Dec: +28 14 50.60 (28.24739d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, -15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 24: NGC-4850** Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (24) | NGC-4850 | RA: 12 58 21.8400 (194.5910000d)<br>Dec: +27 58 3.79 (27.96772d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 100.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 25: NGC-4851** Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (25) | NGC-4851 | RA: 12 58 21.7056 (194.5904400d)<br>Dec: +28 08 55.54 (28.14876d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -60.0 arcsec, -40.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 26: NGC-4919**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 26:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (26) | NGC-4919 | RA: 13 01 17.5920 (195.3233000d)<br>Dec: +27 48 32.72 (27.80909d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -50.0 arcsec, 35.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 27: NGC-4854**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (27) | NGC-4854 | RA: 12 58 47.4024 (194.6975100d)<br>Dec: +27 40 29.06 (27.67474d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -75.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 28: NGC-4853**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (28) | NGC-4853 | RA: 12 58 35.1912 (194.6466300d)<br>Dec: +27 35 46.79 (27.59633d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 29: NGC-4927**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (29) | NGC-4927 | RA: 13 01 57.6000 (195.4900000d)<br>Dec: +28 00 21.20 (28.00589d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 31: NGC-4908**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (31) | NGC-4908 | RA: 13 00 54.4608 (195.2269200d)<br>Dec: +28 00 27.50 (28.00764d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -100.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 30: CGCG-160-223**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (30) | CGCG-160-223 | RA: 12 59 13.9200 (194.8080000d)<br>Dec: +28 04 34.50 (28.07625d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 50.0 arcsec, -30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 32: NGC-4923**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (32) | NGC-4923 | RA: 13 01 31.8000 (195.3825000d)<br>Dec: +27 50 51.11 (27.84753d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 115.0 arcsec, 25.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 33: NGC-4873**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (33) | NGC-4873 | RA: 12 59 32.7936 (194.8866400d)<br>Dec: +27 59 0.96 (27.98360d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 45.0 arcsec, 30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 34: CGCG-160-065**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (34) | CGCG-160-065 | RA: 12 58 30.2040 (194.6258500d)<br>Dec: +28 00 53.10 (28.01475d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -100.0 arcsec, -15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 35: NGC-4926**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (35) | NGC-4926 | RA: 13 01 53.7312 (195.4738800d)<br>Dec: +27 37 28.02 (27.62445d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -98.0 arcsec, -15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 36: NGC-4841A**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (36) | NGC-4841A | RA: 12 57 31.9536 (194.3831400d)<br>Dec: +28 28 36.98 (28.47694d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -100.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |
|---|---|

## Observation

**Proposal 5989, Observation 37: NGC-4839**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (37) | NGC-4839 | RA: 12 57 24.3624 (194.3515100d)<br>Dec: +27 29 52.15 (27.49782d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -75.0 arcsec, -15.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 38: NGC-4816**

Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 38:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (38) | NGC-4816 | RA: 12 56 12.1488 (194.0506200d)<br>Dec: +27 44 43.73 (27.74548d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL<br>Subarray: FULL<br>Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset -125.0 arcsec, -30.0 arcsec<br>No Parallel Attachments |

## Observation

**Proposal 5989, Observation 39: 2MASX-J12590459+2754389** Tue Mar 18 20:02:42 GMT 2025

**Diagnostic Status: Warning**

Observing Template: NIRCam Imaging

Coordinated Parallel Template(s): NIRISS Imaging

## Diagnostics

(Visit 39:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---|---|---|---|
| (39) | 2MASX-J12590459+2754389 | RA: 12 59 4.6392 (194.7693300d)<br>Dec: +27 54 39.53 (27.91098d)<br>Equinox: J2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the NED database.*
*Category=Galaxy*
*Description=[Elliptical galaxies]*
*Extended=YES*

## Template

| NIRCam Imaging | NIRISS Imaging |
|---|---|
| Module: ALL | |
| Subarray: FULL | |
| Target Placement: Module Gap | |

## Dithers

| # | Primary Dither Type | Primary Dithers | Dither Size | Subpixel Positions | Coordinated Parallel Subpixel Selector | Dither Direct Images Primes |
|---|---|---|---|---|---|---|
| 1 | INTRAMODULEBOX | 4 | | 1 | NIRCam Only | NO_DITHERING |

## Spectral Elements

| NIRCam Imaging | Short Filter | Long Filter | Readout Pattern | Groups/Int | Integrations/Exp | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | F356W | BRIGHT2 | 9 | 1 | 4 | 4 | 773.047 | |

## Spectral Elements

| NIRISS Imaging | Filter | Grism | Readout Pattern | Groups/Int | Integrations/Exp | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
|---|---|---|---|---|---|---|---|---|---|
| 1 | F150W | | NISRAPID | 16 | 1 | 4 | 4 | 730.1 | |

| Special Requirements | |
|---|---|
| | Aperture PA Range 109.92542306 to 159.92542306 Degrees (V3 110.0 to 160.0)<br>Aperture PA Range 249.92542306 to 304.92542306 Degrees (V3 250.0 to 305.0)<br>Offset 70.0 arcsec, 15.0 arcsec<br>No Parallel Attachments |