

NIRISS Operations

JWST NIRISS operations include telescope pointing maneuvers (dithers and target acquisitions) using targetable areas called apertures.

[NIRISS](#) operations are observatory-level capabilities applied for science observations with NIRISS. These operations include pointing maneuvers such as [dithers](#) and [target acquisitions](#).

- Dithers are performed between exposures to improve sky coverage and image quality.
 - Dithers are required for the [wide field slitless spectroscopy](#) (WFSS) mode to mitigate the poor sampling of the point spread function in that mode.
 - Dithering is also supported (albeit discouraged) for the [aperture masking interferometry](#) (AMI) mode.
 - Dithering is *not* supported for the [single object slitless spectroscopy](#) (SOSS) mode.
- Target acquisition (TA) is required when using a subarray in SOSS and AMI observing modes, and it is strongly encouraged in those modes even when using full frame readout. TA is not implemented for WFSS.
- All targeting is performed using [apertures](#), which define the target's position and extent in the field of view of the detector.
- [Mosaics](#) can be used in the WFSS mode to cover an area larger than the 2.2' x 2.2' NIRISS field of view.

Detector operations such as [readout patterns](#) are covered in the articles under [NIRISS detector](#).