

# Transiting Exoplanet WG telecon, 25 Jan 18

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# APT 25.4.x (Nov, Jan releases)

## TSO-relevant changes

- **NIRCam**

- Max ngroups for TA = 65; error reported if higher
- For FULL subarray, APT aperture definition updated to avoid error on TA.
- max NINTS increased to 200 for subarray imaging

- **NIRSpec**

- Wide-Angle Target Acquisition (WATA) added to TA method (<https://jwst-docs.stsci.edu/display/JTI/NIRSpec+Target+Acquisition>)
- Option of TA = None added to BOTS template for no-TA observations
- Implementation of NEXP  $\leq 50$ ;  $> 50$  exposures in a single integration returns an error for BOTS

- **MIRI**

- no TA option implemented for MIRI LRS template

- **NIRISS**

- Read mode NIS no longer allowed in SOSS template; only NISRAPID allowed for subarray readout (<https://jwst-docs.stsci.edu/display/JTI/NIRISS+Detector+Readout+Patterns>)

- **All**

- New “Time Series Observation” special requirement (expect more tweaks to the logic in the templates but errors/warnings will guide you)
- Enforced the limit of nints  $\leq 65535$
- Exposures of  $> 10,000$ s now return a warning, not an error

# JDox pages

- Observing Techniques section on Time Series Observations (Observation Planning -> Observing Techniques -> Time Series Observations)  
<https://jwst-docs.stsci.edu/display/JPP/JWST+Time-Series+Observations>
  - What defines a “time series observation” on JWST? Special conditions regarding exposure length, dithering, target acquisition
  - Overview of available modes for time series imaging and spectroscopy
  - General discussion of noise sources, including observatory-related
  - Instrument-specific discussion of TSO modes: MIRI, NIRCам and NIRISS in good shape, NIRSpec still being written
  - Performance numbers should also be added using TSO-relevant metrics
- Instrument teams are also putting together “science use cases”, including several TSO cases (<https://jwst-docs.stsci.edu/display/JPP/JWST+Science+Use+Cases>)
- Keeping instrument pages up to date with APT, ETC or operational changes

# Helpdesk

<https://stsci.service-now.com/jwst>

Please use it!

Feel free to also report any issues to  
Kevin ([kbs@stsci.edu](mailto:kbs@stsci.edu)) or Sarah  
([sarah.kendrew@esa.int](mailto:sarah.kendrew@esa.int))