2018-12-03 TSO WG Meeting notes

Date

03 Dec 2018

Attendees

- Kevin Stevenson
- Sarah Kendrew
- Brian Brooks
- Everett Schlawin
- Thomas Beatty
- Loic Albert

Goals

Discussion items

Time	Item	Who	Notes
	New group email list		JWST-TSOWG "at" maillist.stsci.edu
	Unexpectedly small TSO data and file segmentation		- In testing there was a TSO smaller then the 2G segment size that had been set. This caused the segmentation code to fail. - NIRCam Grism Time Series, Duration= 258 seconds **Option 1:** Treat it as unsegmented exposure - Filename will not have "seg" in it - The TSO_VISIT keyword in the header is the best way to determine what data is time series, not the "seg" in the filename - If you don't segment it, would you want the segment-related header keywords added, or not? **Option 2:** Treat it as segmented exposure - Consistent naming convention for all TSO data (all with "seg" in them) - Down-side that the data will be labeled as segmented data, but there is only one segment **Decision to take option 2, we will have 1 segment for small TSO.**
	JSOCINT-118 "Allow Multiple Exposures of NIRSpec Bright Object Time Series"		- The ability to create more than one exposure per visit was only missing in the NIRSpec BOTS template. - For bright sources and thus short integrations (low number of groups) one exposure will not be long enough to cover the entire transit or phase curve for the target -> therefore the need for more than one exposure - Topic discussed at PPS/DMS meeting - There are two options (either OSS changes their scripts or APT makes changes) - Final decision hasn't been made. - Likely that it will end up being handled in the front-end (easier to implement for APT than OSS, but less efficient) - Will NOT have a TA at the start of the second exposure, exposures will be contiguous
	Calibration Pipeline		- Optimal algorithm prioritization - Enhanced Pipeline - Development Priorities - Spectral background subtraction - Rank = 1 - Recentering during aperture photometry - Rank = 1 "Optimal" spectral extraction - Rank = 1.5 - Meeting Dec 11th to discuss - Sarah Kendrew and Kevin Stevenson to meet next week to discuss plan for unit testing/validation of TSO pipeline - Will seek input from WG once we have a baseline plan - No coding at this point, only need list of items to validate
	Precise Timing with FPE	Brian Brooks	- John/Brian gave presentation at Oct DMS_TSO meeting - https://innerspace.stsci.edu/display/jwstdms/2018-10-30+-+JWST+DMS+Time+Series+Observations - See last meeting's notes (2018-10-01 TSO WG Meeting notes) for details - New/more mnemonics identified - Making progress on Notebook - Brian Brooks to provide link - Goal is to write up a technical report by mid-Jan

	MIRI JPL Test	Dan D.	Goals: • Characterize and mitigate ramp • Provide recommendation on fluence Last Meeting: • Previous results showed large ramp, attributed to BB source • Currently conducting tests with LED New results to come next meeting

Action items

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