

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		<ul style="list-style-type: none"> • JWST-TSOWG "at" maillist.stsci.edu
	Unexpectedly small TSO data and file segmentation		<ul style="list-style-type: none"> • In testing there was a TSO smaller than the 2G segment size that had been set. This caused the segmentation code to fail. <ul style="list-style-type: none"> ◦ NIRCam Grism Time Series, Duration= 258 seconds • Option 1: Treat it as unsegmented exposure <ul style="list-style-type: none"> ◦ 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 <ul style="list-style-type: none"> ◦ 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"		<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> ◦ 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		<ul style="list-style-type: none"> • Optimal algorithm prioritization <ul style="list-style-type: none"> ◦ Enhanced Pipeline - Development Priorities • Spectral background subtraction <ul style="list-style-type: none"> ◦ Rank = 1 • Recentering during aperture photometry <ul style="list-style-type: none"> ◦ Rank = 1 • "Optimal" spectral extraction <ul style="list-style-type: none"> ◦ 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 <ul style="list-style-type: none"> ◦ 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	<ul style="list-style-type: none"> • John/Brian gave presentation at Oct DMS_TSO meeting <ul style="list-style-type: none"> ◦ 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 <ul style="list-style-type: none"> ◦ Brian Brooks to provide link • Goal is to write up a technical report by mid-Jan

	MIRI JPL Test	Dan D.	Goals: <ul style="list-style-type: none">• Characterize and mitigate ramp• Provide recommendation on fluence Last Meeting: <ul style="list-style-type: none">• Previous results showed large ramp, attributed to BB source• Currently conducting tests with LED New results to come next meeting

Action items

