2022-07-27 TSO WG Meeting notes

Date

27 Jul 2022

Attendees

- Sarah Kendrew
- Brian Brooks
- Everett Schlawin
- Knicole Colon
- Nikolay Nikolov
- Nestor Espinoza
- Diane Karakla

Meeting agenda:

1. News & Announcements.
2. Instrument roundtable check-in
3. Closing remarks

Meeting slides

Discussion items

Time	Item	Who	Notes
5 mins	**1. News & announcements**	Everyone	
25min	**2. Instruments roundtable check-in**		
	NIRCam	Everett Schlawin	- Everett Schlawin hard at work on NIRCam performance paper. He mentions that it appears wavefront optical path difference map could predict part of the jump size seen on tilt events. - Nikolay Nikolov suggests that perhaps using the short wavelength data would be one way to go. Everett Schlawin shows that his idea on this end was to center apertures around mirror segments. - Nestor Espinoza asks about current tilt events. There is some events that were seen on the ERS data. Everett Schlawin and Nikolay Nikolov mention they seem different to the ones observed in commissioning. Everett Schlawin calls some of them "micro-tilt-events" — smaller than the ones in commissioning. - Nestor Espinoza asks if we should contact the WFS team with this? Would be good to share plots of Everett Schlawin with them. - Sarah Kendrew asks whether these plots should be in the TSO Quicklook tool. Nikolay Nikolov mentions he has somewhat pipelined' this in his NIRCam pipeline, so he might be able to polish and share this code in the future. Important thing, though: not all
	NIRISS	Nestor Espinoza	Nestor Espinoza updates that there are some calibrations
	NIRSpec	Unknown User (birkmann)	Nestor Espinoza is working on the NIRSpec performance paper.
	MIRI	Sarah Kendrew	- Sarah Kendrew mentions they also had some things to work on with the wavelength solution with LRS. Uncertainty for the slit spectra seems a bit higher than slitless. - Also working on the performance paper for the MIRI LRS. - MIRI MRS has a calibration program that has to happen. Sarah Kendrew is co-I. But, also there is a GO program happening at the end of August.

	Time-stamps	All	- Nikolay Nikolov mentions we should document what each time in the headers (e.g., EXPTIME) accuracy/precision and what they mean. Everett Schlawin mentions that the first time in INT_TIMES was 7 minutes earlier than the EXPSTART. We should also document how the INT_TIMES are generated. - Nikolay Nikolov asks about accuracy and precision. Precision is in the order of hundreds of ms (based on Daryl Swade); accuracy needs to be measured. Transits can only be done to ~10s. However, NIRCam has calibration program to measure accuracy at better precision (PID 1666) — we should work on perhaps analyzing this on our TSO WG end.
	Wavelength solution	All	- Nestor Espinoza mentions that people are having trouble figuring out how to extract this for their own analyses. Nikolay Nikolov has seen the same. - Nikolay Nikolov suggests that perhaps there could be "easier" ways to extract this from header files (like for HST).
	Operations	All	Sarah Kendrew discussed how we should build a tool (or ask to be included in some sort of list) that allows us to check when TSO observations have been run, skipped or are in prep. Would be good to have an idea of the programs that are running to better provide support, but also to double check issues and provide quick-look analyses if possible to be on top of TSO things. Nestor Espinoza agrees! He'll ask people around about this.
2 mins	**4. Closing Remarks**		