

2022-11-16 TSO WG Meeting notes for real

Date

16 Nov 2022

Attendees

- Sarah Kendrew
- Brian Brooks
- Nikolay Nikolov
- Nestor Espinoza
- Everett Schlawin
- Unknown User (birkmann)
- Knicole Colon
- Loic Albert

Meeting agenda:

1. News & Announcements.
2. Status of TSO Commissioning papers.
3. Cycle 2 preparation status.
4. Instrument round-table check-in.
5. Closing remarks.

Discussion items

Time	Item	Who	Notes
5 mins	1. News & announcements		<ul style="list-style-type: none">▪ Nestor & Sarah meeting at 2 pm with Van Dixon to discuss 2023 plans for the WG▪ Job ad for the senior technical staff hire, which includes a targeted MIRI TSO hire. Please share or pass names of good candidates to Sarah so she can reach out.
10min	2. Status on TSO commissioning papers		
	NIRCam	Everett Schlawin	<ul style="list-style-type: none">▪ SW paper will be resubmitted within a week▪ LW progress very slow
	NIRISS	Loic Albert	<p>coming along, most content is there, still waiting on wavelength calibration and wavelength stability section. waiting on some input from Nestor. Most of the team is working on science observations with SOSS and some NIRSpec. It is snowing in Montreal.</p> <ul style="list-style-type: none">• Nestor sees some unexplained features in the HAT-P-14b data with NIRISS SOSS. could be a marginal detection of H₂O...?<ul style="list-style-type: none">◦ no one else in Montreal is really looking at this so no opinion◦ SB: NIRSpec also has a few discrepant points - perhaps good to compare?• Commissioning data has been public for 4-5 months now, I think we would be okay to publish? but we are not there yet.
	NIRSpec	Nestor Espinoza	<ul style="list-style-type: none">▪ accepted! and on the Arxiv.
	MIRI	Sarah Kendrew	<ul style="list-style-type: none">▪ has been ready for a while. should be submitted imminently.
	Joint?	Nestor Espinoza	<ul style="list-style-type: none">• still want to do. see an offset in the transit depth in the NIRISS data so good to put everything together.• could perhaps show more clearly if there is a weak feature there.• LA: could also highlight some discrepancy in data points/possible features in a comparative paper and not go into it further.

5min	3. TSO JDox discussion	Nestor Espinoza	<ul style="list-style-type: none"> • JDox updates due TOMORROW - freeze coming. • Nestor is working on following pages: <ul style="list-style-type: none"> ◦ methods & roadmaps ◦ saturation section requires some discussion <ul style="list-style-type: none"> ▪ Is the ETC still conservative in estimating saturation? (yes) ▪ relevant links: https://jwst-docs.stsci.edu/jwst-exposure-time-calculator-overview/jwst-etc-calculations-page-overview/jwst-etc-saturation, https://jwst-docs.stsci.edu/jwst-exposure-time-calculator-overview/jwst-etc-calculations-page-overview/jwst-etc-saturation ▪ Why is this margin still used? BB says it was discussed for NIRCcam but analyses by Marcia & Martha showed slightly different throughput measurements, so margin was considered to be safer. ▪ for MIRI there are other aspects of difference rather than just the throughput. BB says non-linearity also comes into how instruments set their limits. ▪ SK: there may not be a fundamental reason, perhaps just hasn't been discussed yet ▪ LA: for AMI there are different sat limits in ETC vs reference files as want to be extremely precise. ▪ worth pointing out how the pipeline deals with saturated pixels as many people still looking at it with a CCD lens • NN: will there be a dedicated Docs article on tilt events (at observation level)? would be good. how detect it, how it impacts the data, etc. <ul style="list-style-type: none"> ◦ we have a decent description in the TSO section but not at the observatory section ◦ NE: would be good to have a description of data features we see in the TSO data that might impact analysis • NE: please let him know if see anything on TSO pages that needs changing. will be working on this all day today
10min	3. Instrument roundtable check-in		
	NIRCcam	Everett Schlawin	<p>looking into slope we see in flux - possibly related to observatory pitch angle?</p> <p>Action on Nestor Espinoza to discuss with mission office!</p>
	NIRISS	Nestor Espinoza , L oic Albert	<p>had a meeting for analysis of LTT**** phase curve analysis. think there is a tilt event just at the time of the 2ndary eclipse. so it is important for data analysis.</p> <p>BB: having the discussion for NIRCcam as well, how to notify the observers & what the impact is</p>
	NIRSpec	Unknown User (birkmann)	a few issues with shorts but not affecting BOTS. BOTS all going well.
	MIRI	Sarah Kendrew	<ul style="list-style-type: none"> • failed TSO recently due to an HGA move. unusual, but not the first instance. perhaps we should request no HGA moves during TSOs? • ERS TSO with MIRI on the schedule for early December, exciting
2 mins	4. Closing Remarks		meeting again in 2 weeks