

# EUI report

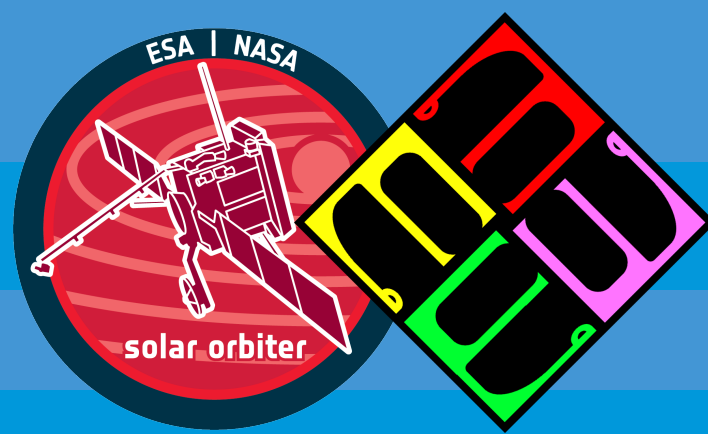
Nov 22 - Apr 16 = STP 232 - 253

**D. Berghmans for the EUI consortium**

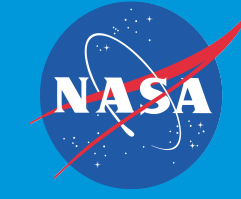
SWT 2023 Apr 17

Contact: [david.Berghmans@sidc.be](mailto:david.Berghmans@sidc.be) (PI)

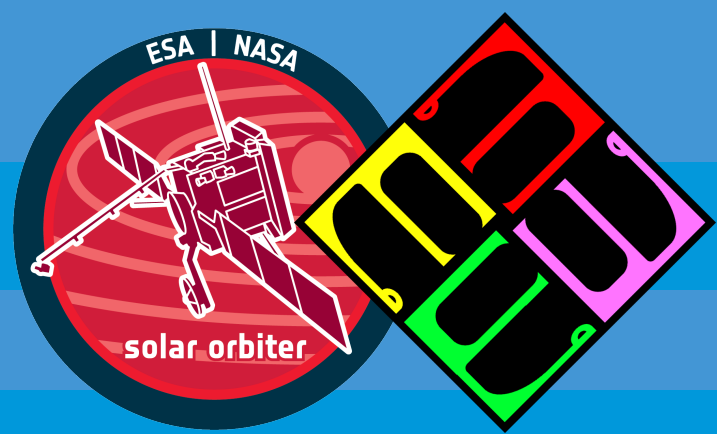




# Highlights Nov 22 - Apr 16 = STP 232 - 253



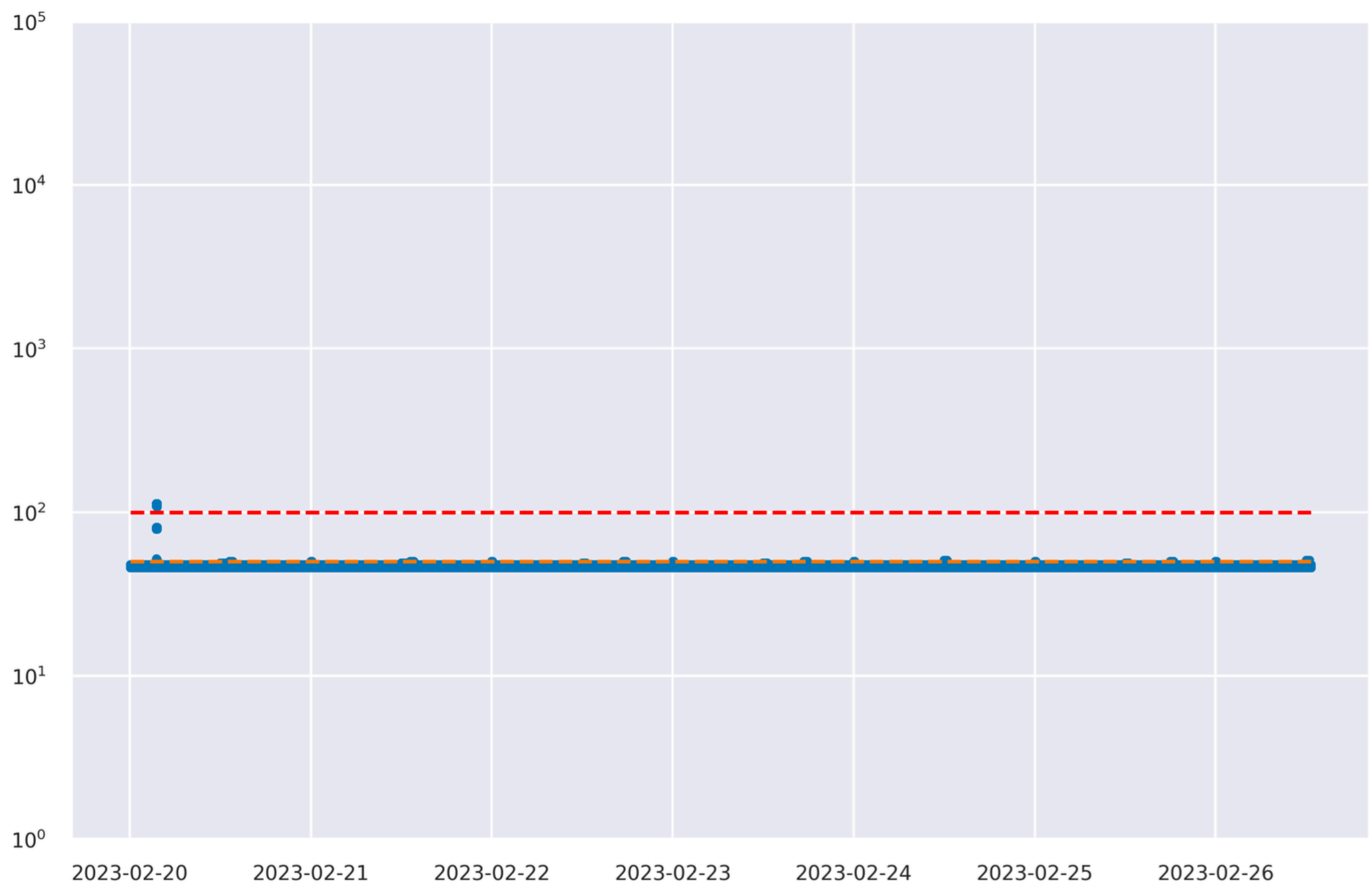
<b>Current Instrument Status</b>	<b>Instrument is nominal.</b> Jan 16 software update, Feb 26 reboot to re-initialise SOB memory
<b>Observations executed</b>	Nearly all...
<b>Data download</b>	SSMM packet store at 66% full on April 16
<b>Latest Data release</b>	EUI Data Release 6 was issued 2023 Jan, to be appended
<b>Science results</b>	published & accepted papers: 35 (+9) papers
<b>Upcoming instrument activity</b>	Low data rate synoptics (FSI174@15min, FSI304@12h) Low Latency back down to 1.5 MiB/day Technical tests: event triggering, continuous mode



# Reduced HK rate



STP245 - EUI Volume of packets to OBC (300s sliding window)



STP247 - EUI Volume of packets to OBC (300s sliding window)

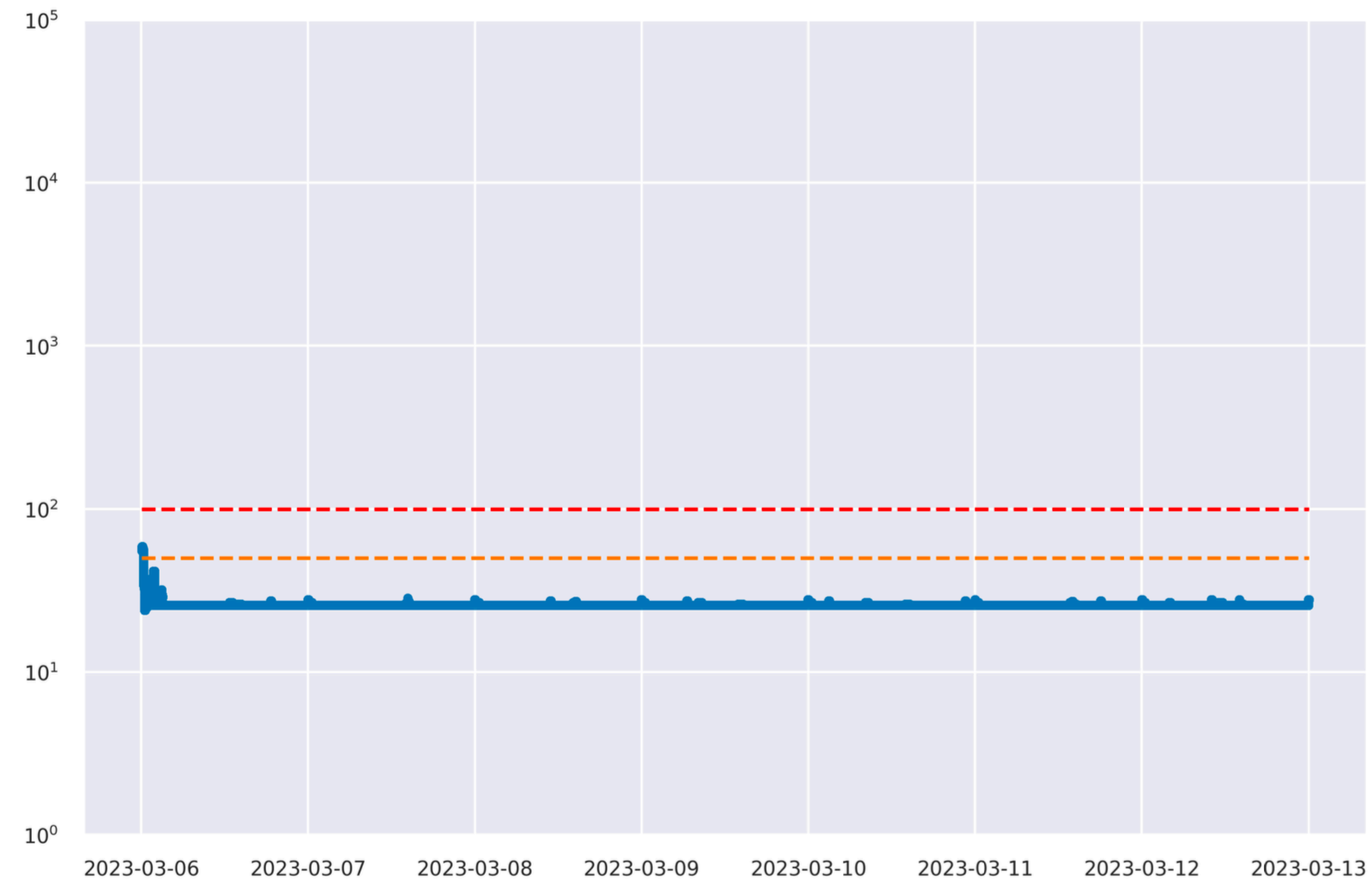
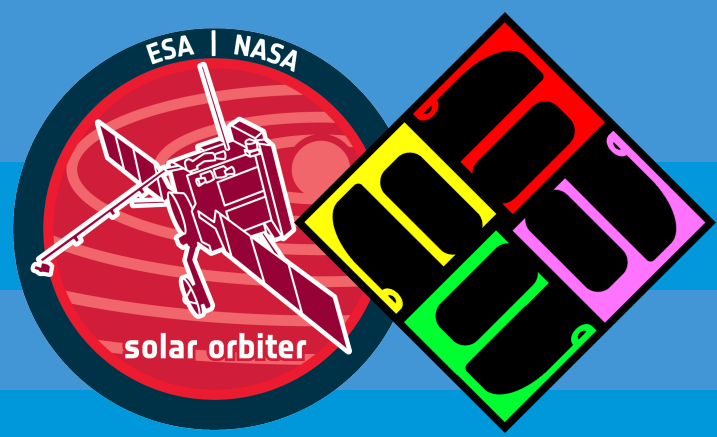


Figure 1 Figure 2: EUI volume of packets to the OBC (300s sliding window)

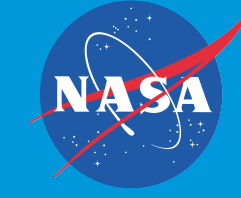
Figure 1: EUI volume of packets to the OBC (300s sliding window)

voltages/currents/temperatures HK that the OBC needs to monitor at 11s cadence

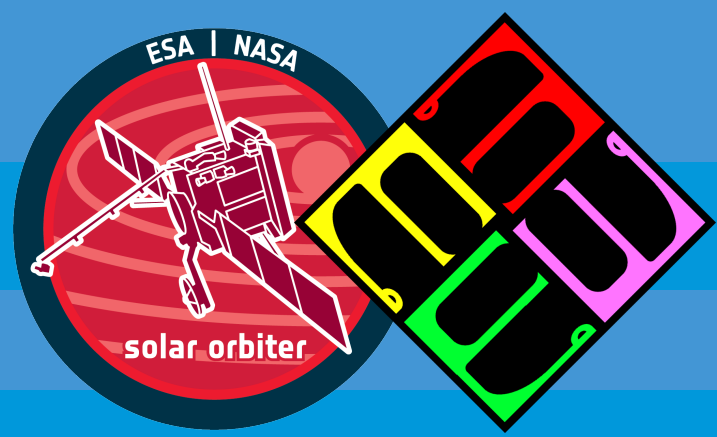
... at 20s cadence



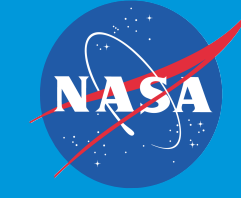
## open anomaly reports



- SOL\_SC-84 EUI TM flush from OHQ to SOB blocked  
In analysis. Deep Operating system filesystem failure.
- SOL-SC-124 Synchronisation anomaly STP223 -> To be closed
- SOL-SC-125 [EUI] EUI HE temperature increase March 2022
- SOL-SC-133 HRILYA MCP limit checking, mathematical error.  
Current software patched. Fixed in next software upload -> To be closed.
- SOL\_SC-137: [EUI] SpW link failure after SOL\_SC-136 recovery.

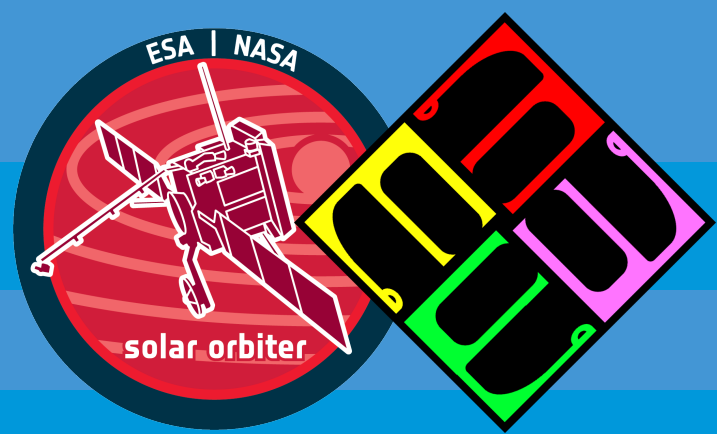


## open anomaly reports

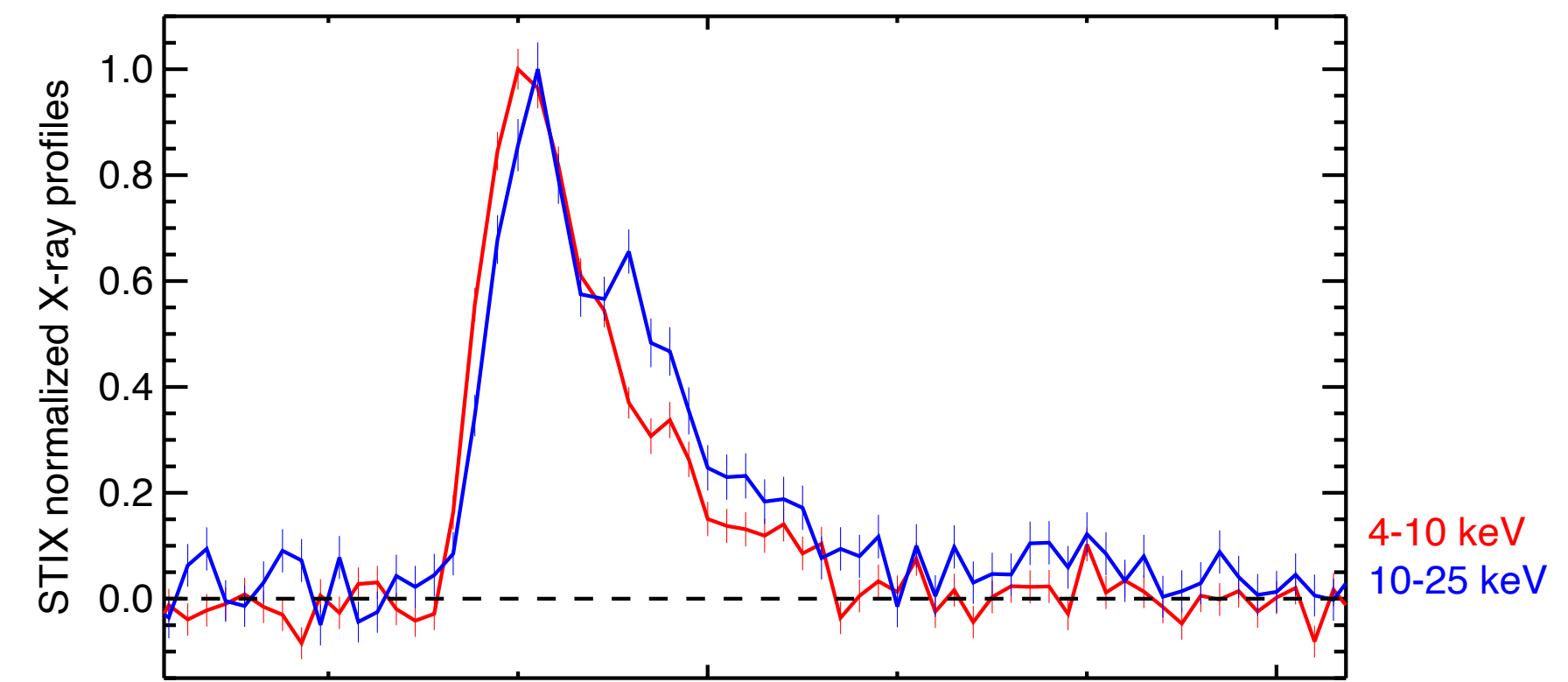


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=> teleconf with MOC at earliest convenience



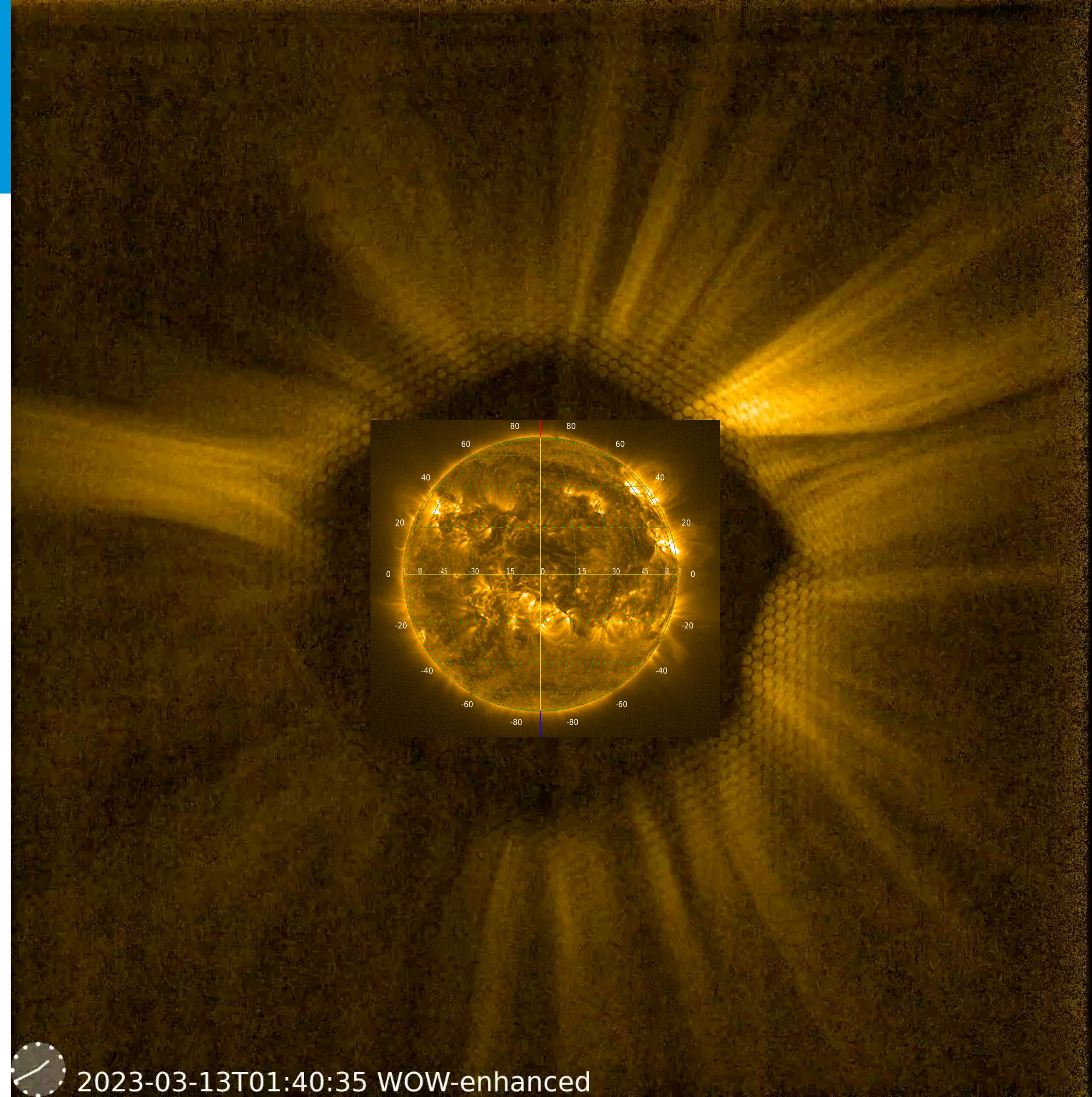
# FSI occulter sequences



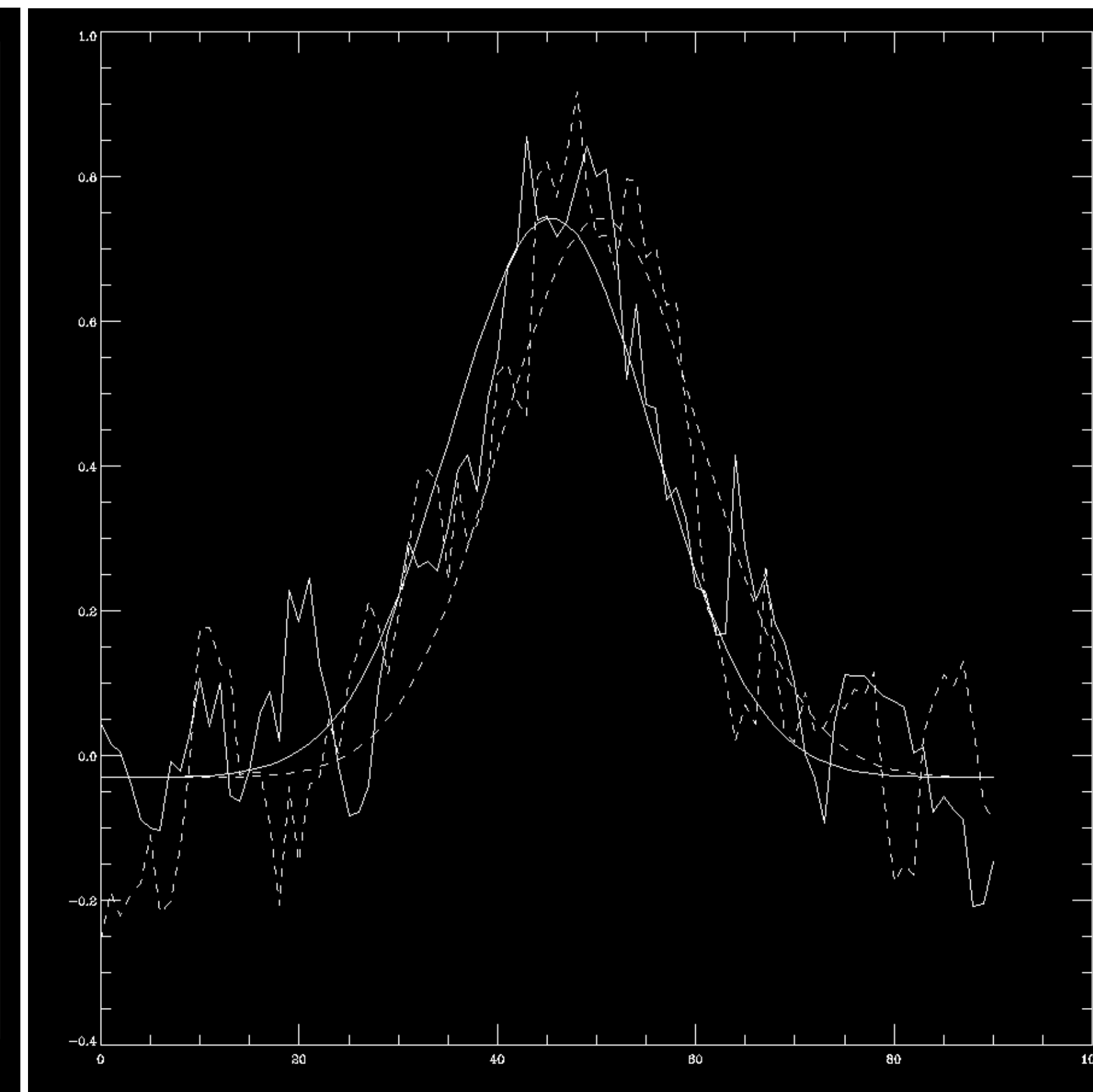
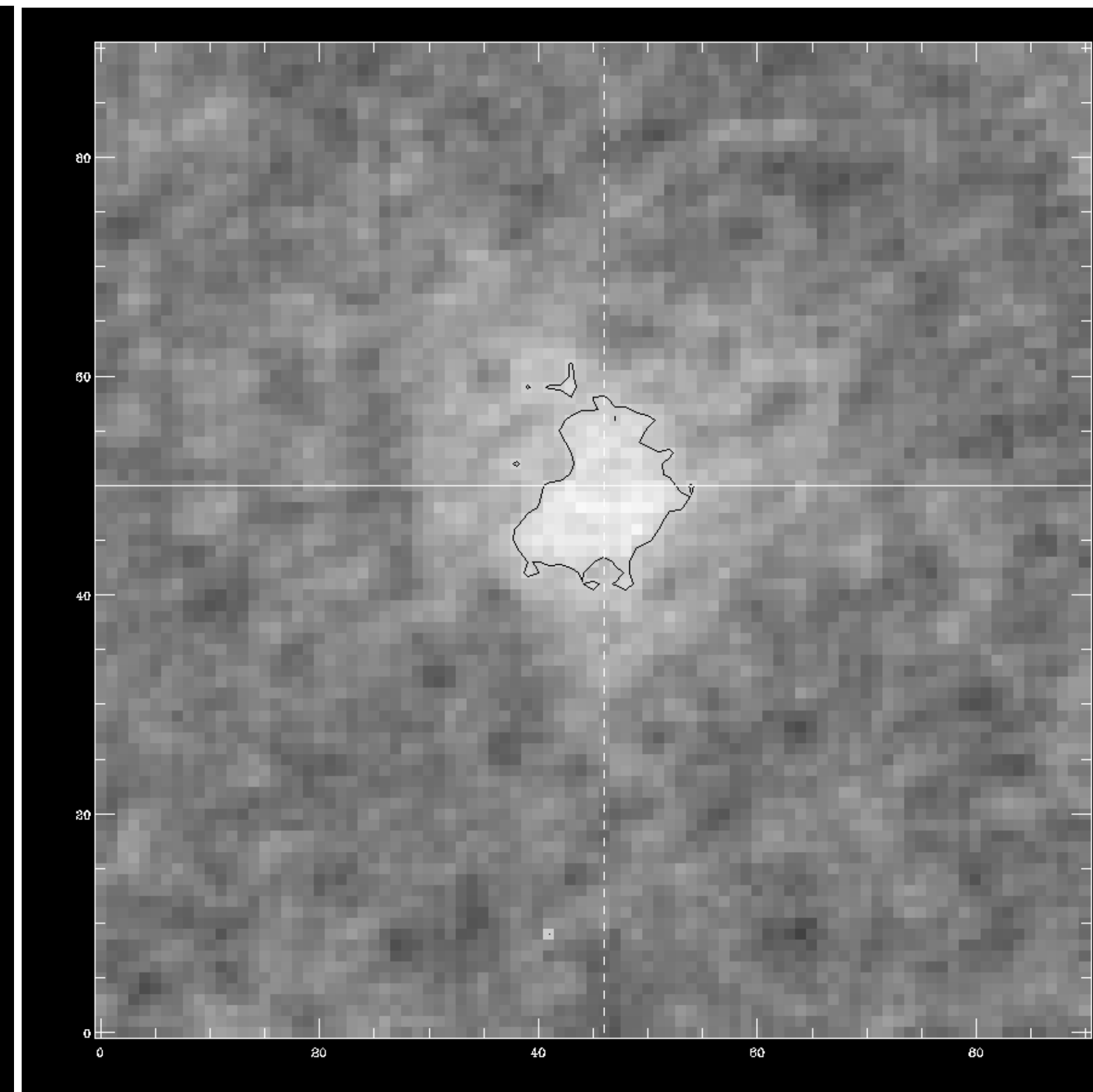
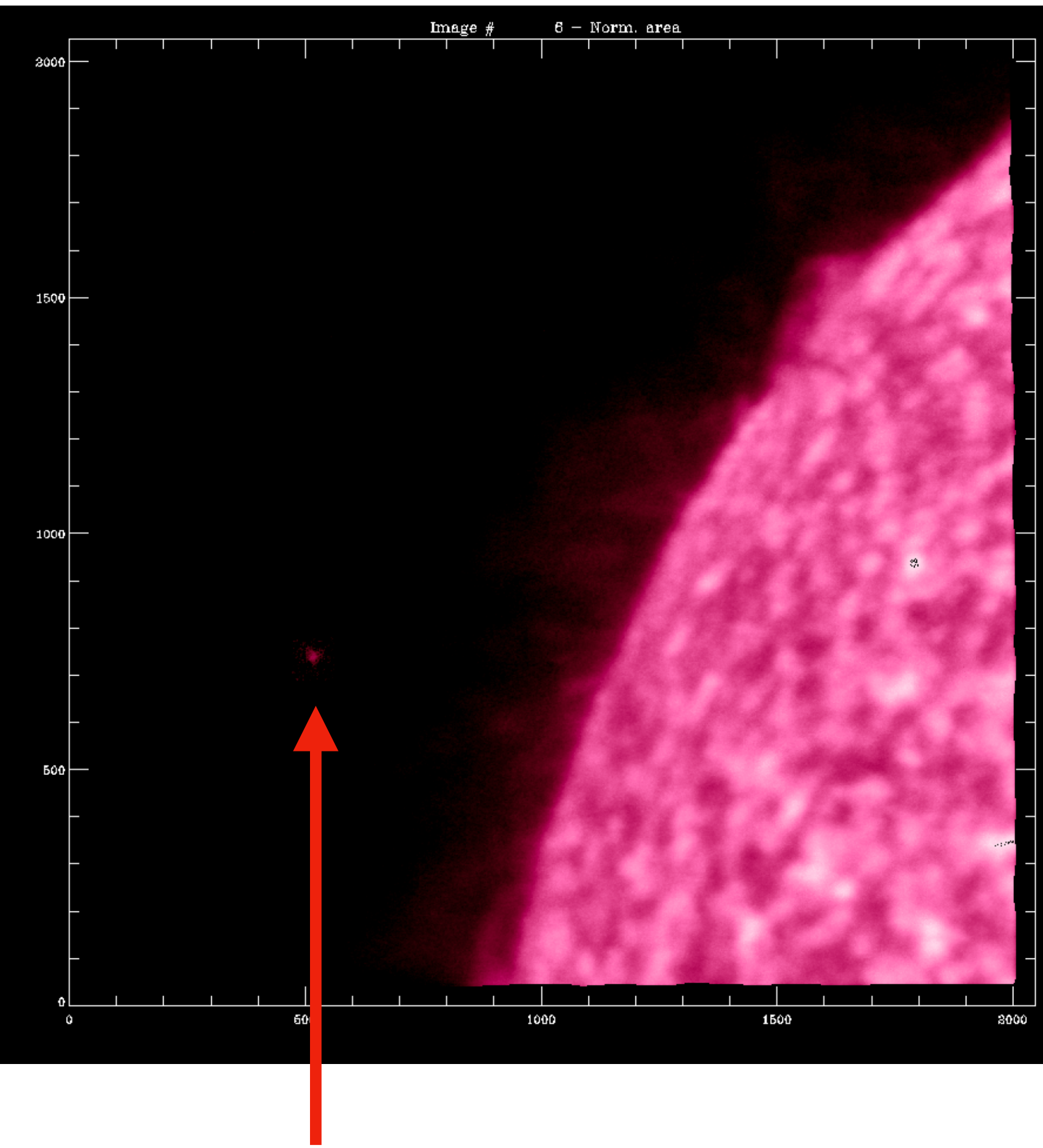
hhmm  
2023 Mar 13

0330

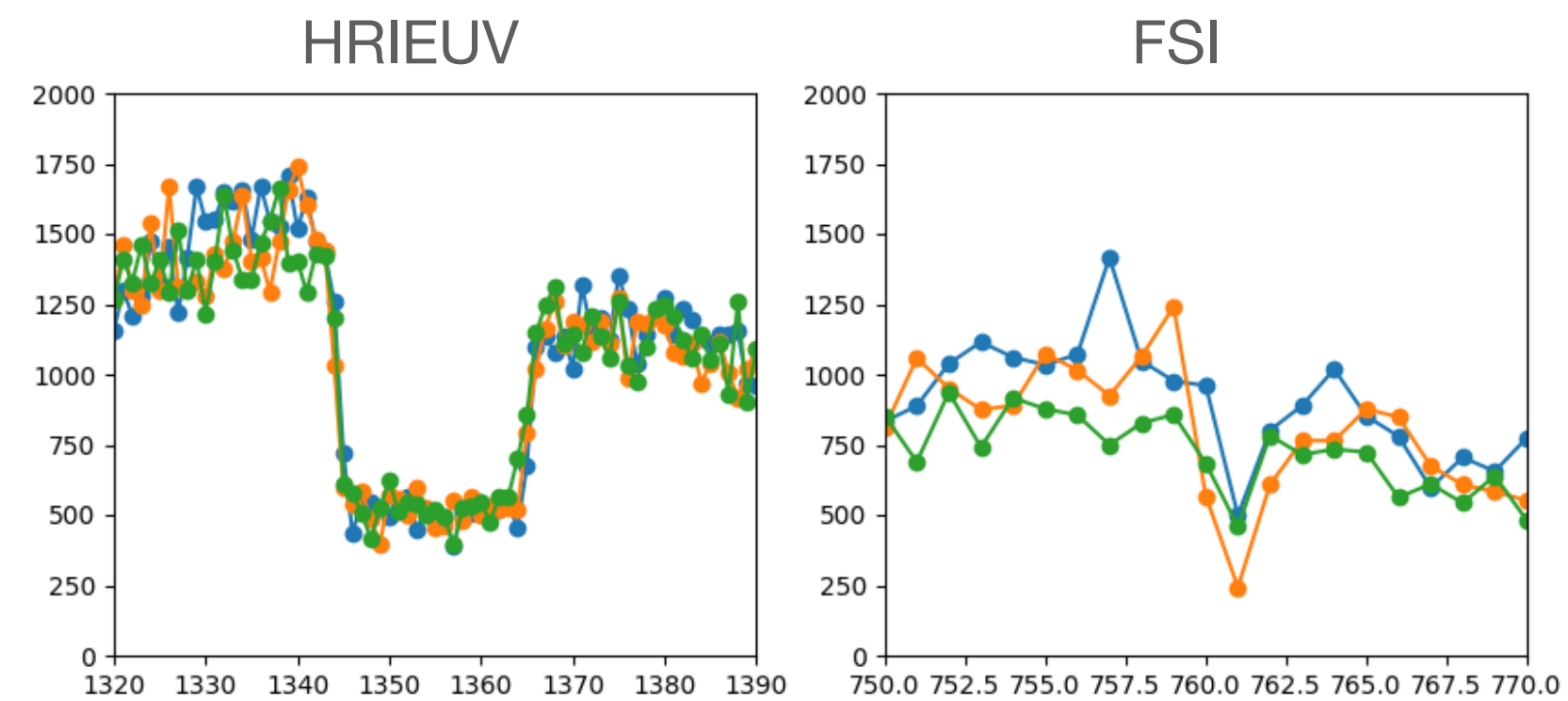
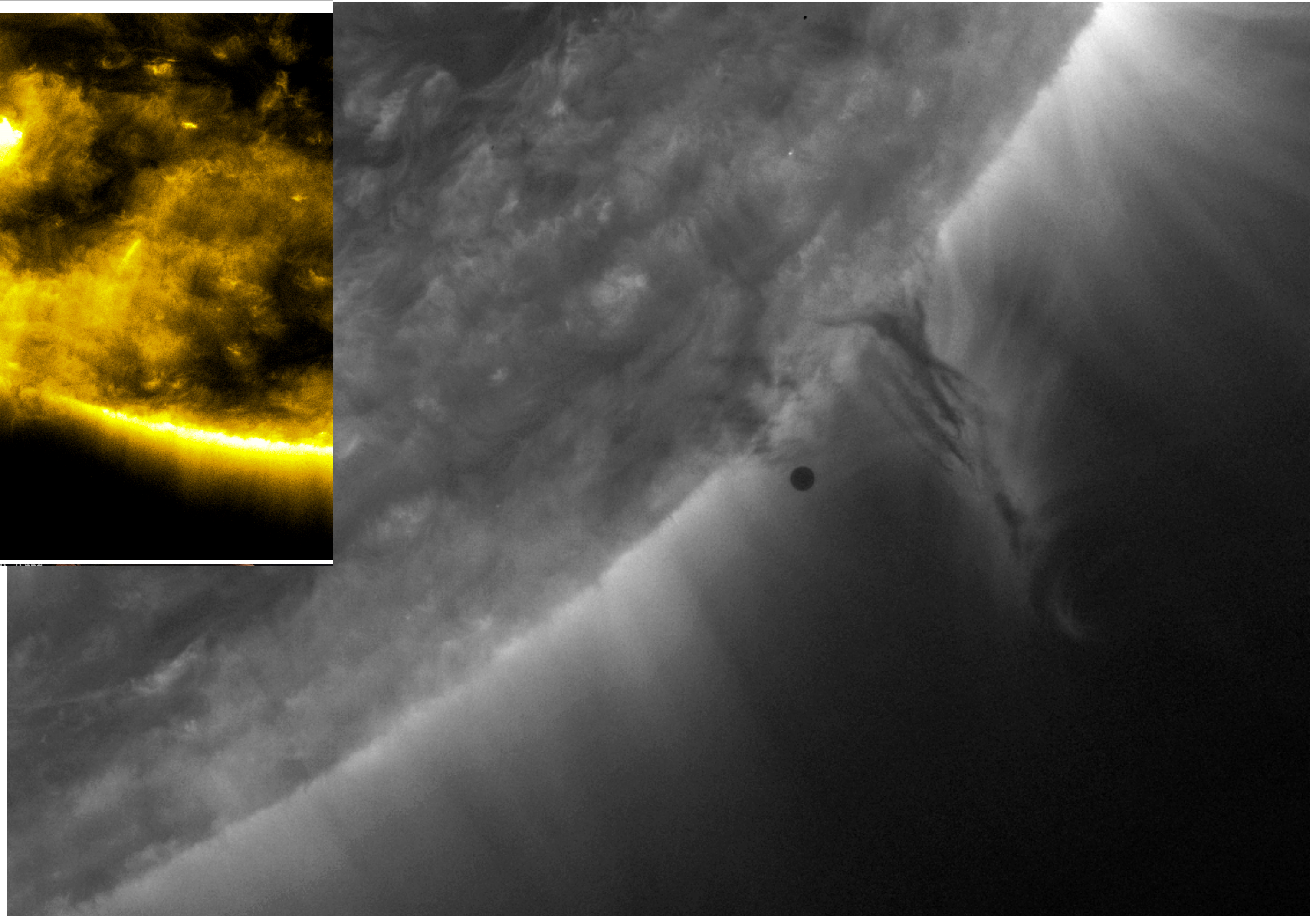
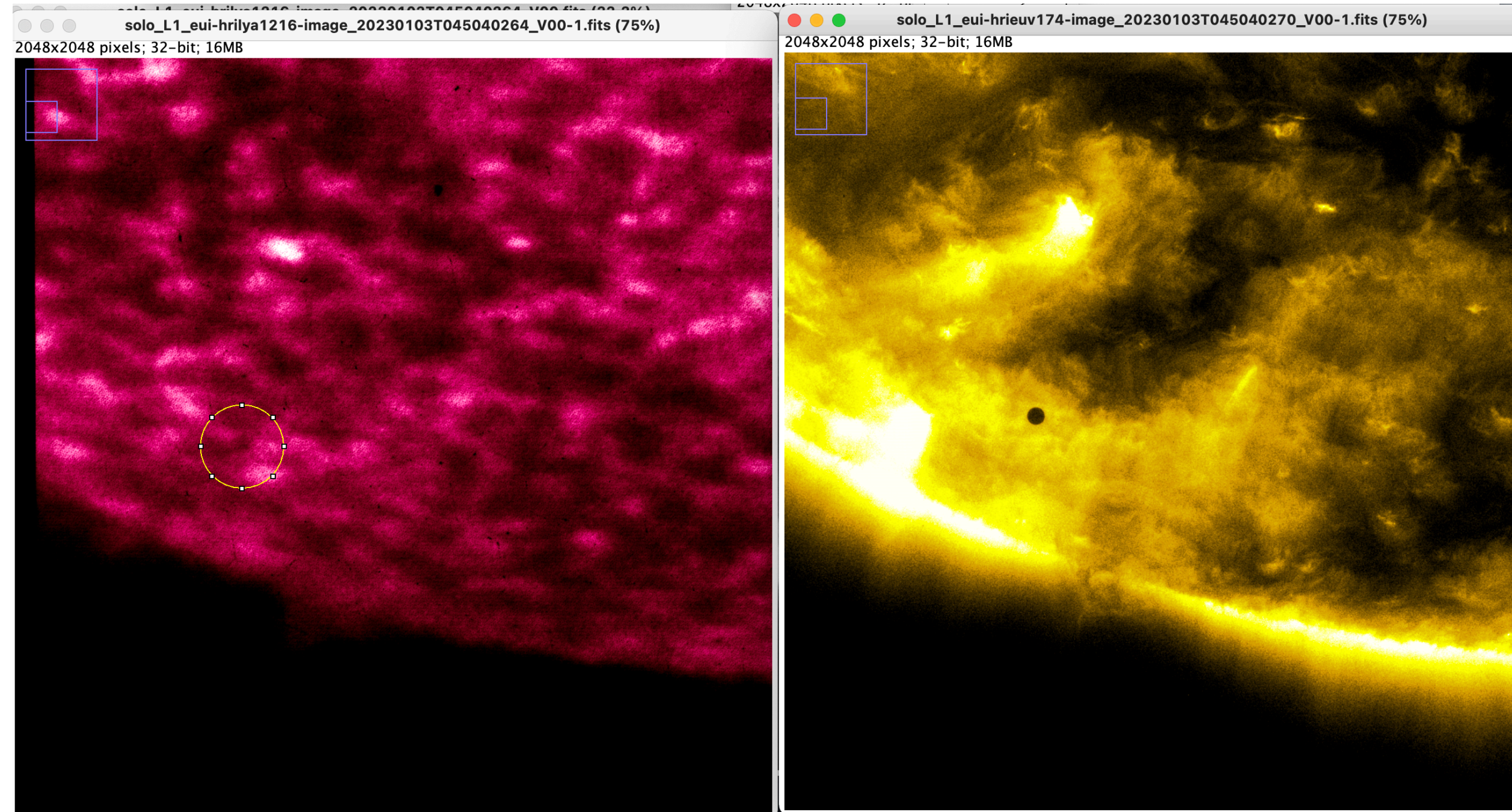
0400



# 2022 November 24: Alpha Virginis

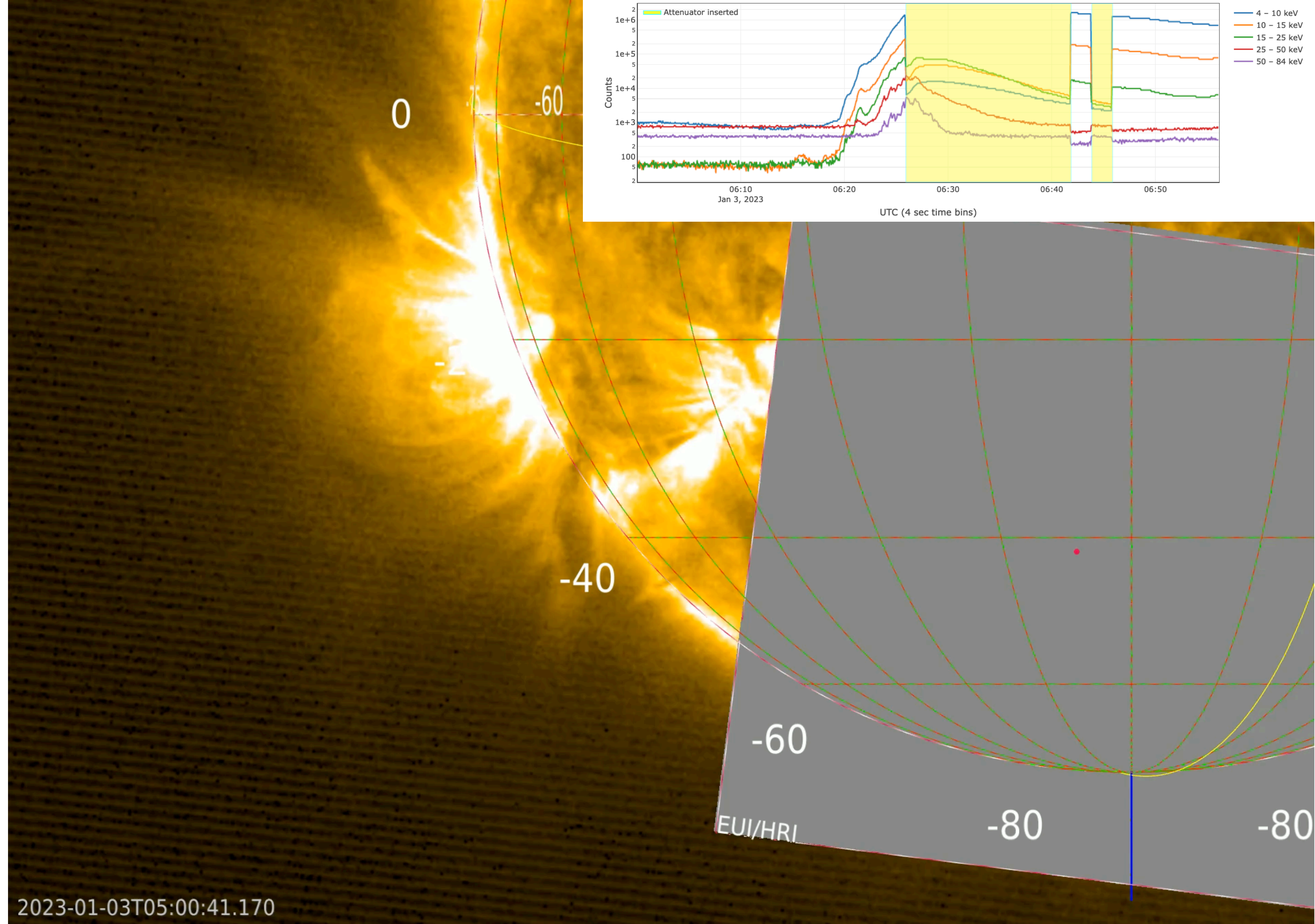


# 2023-01-03 Mercury transit

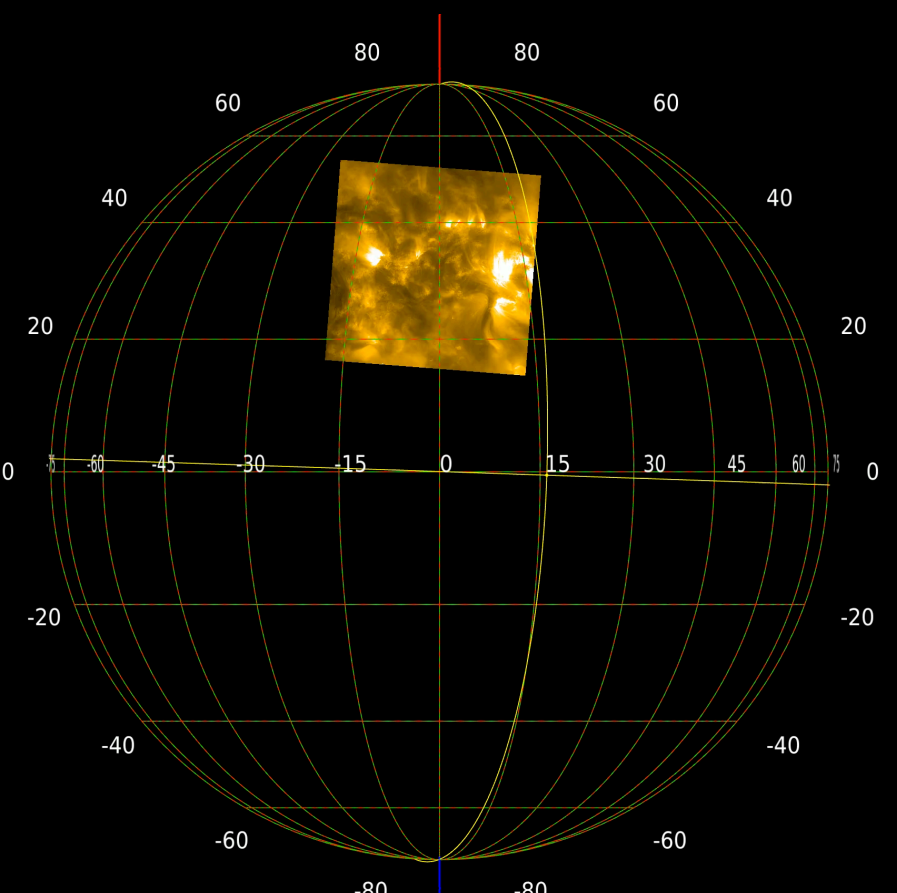




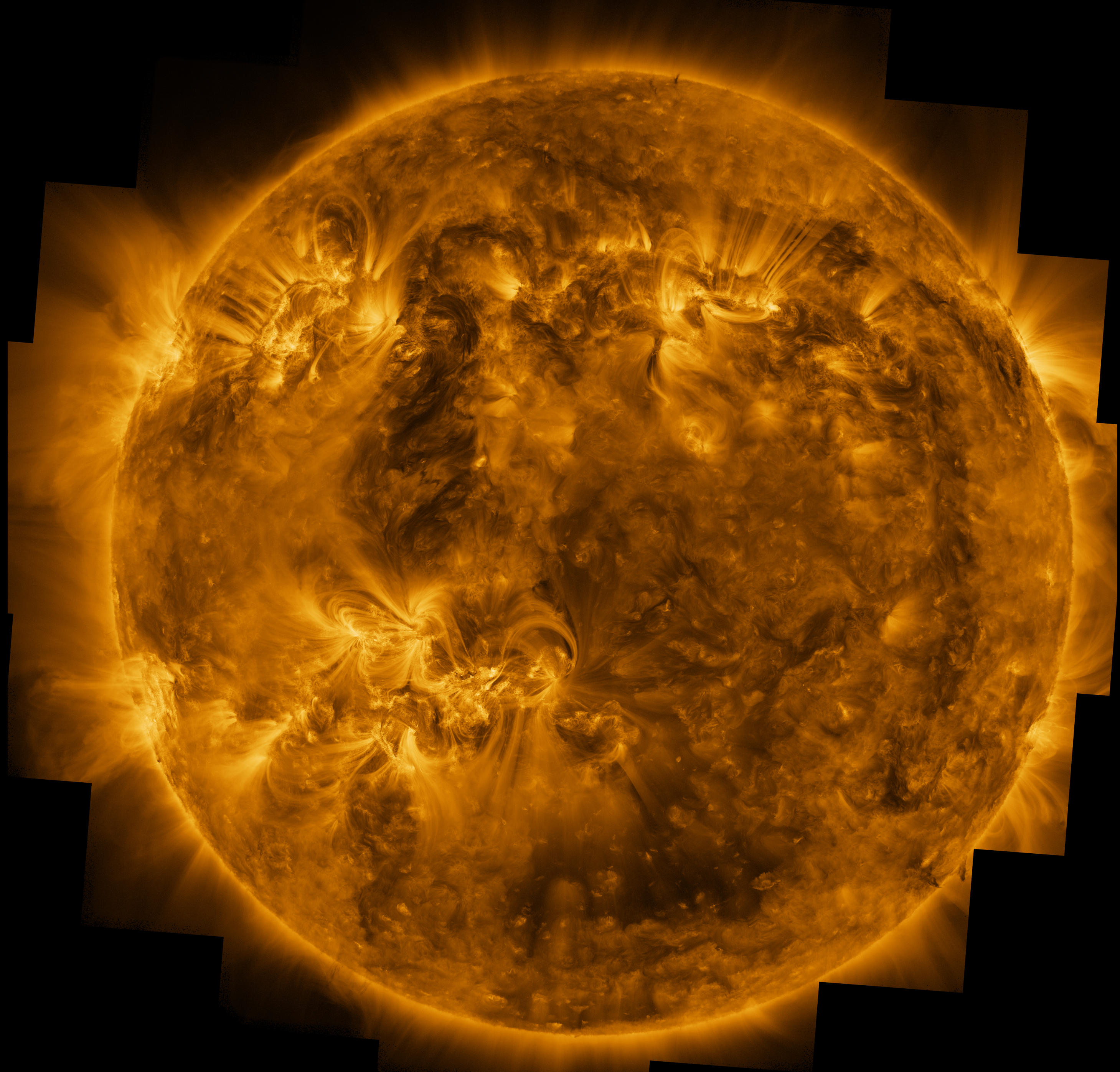
# 2023-01-03 'X6' flare



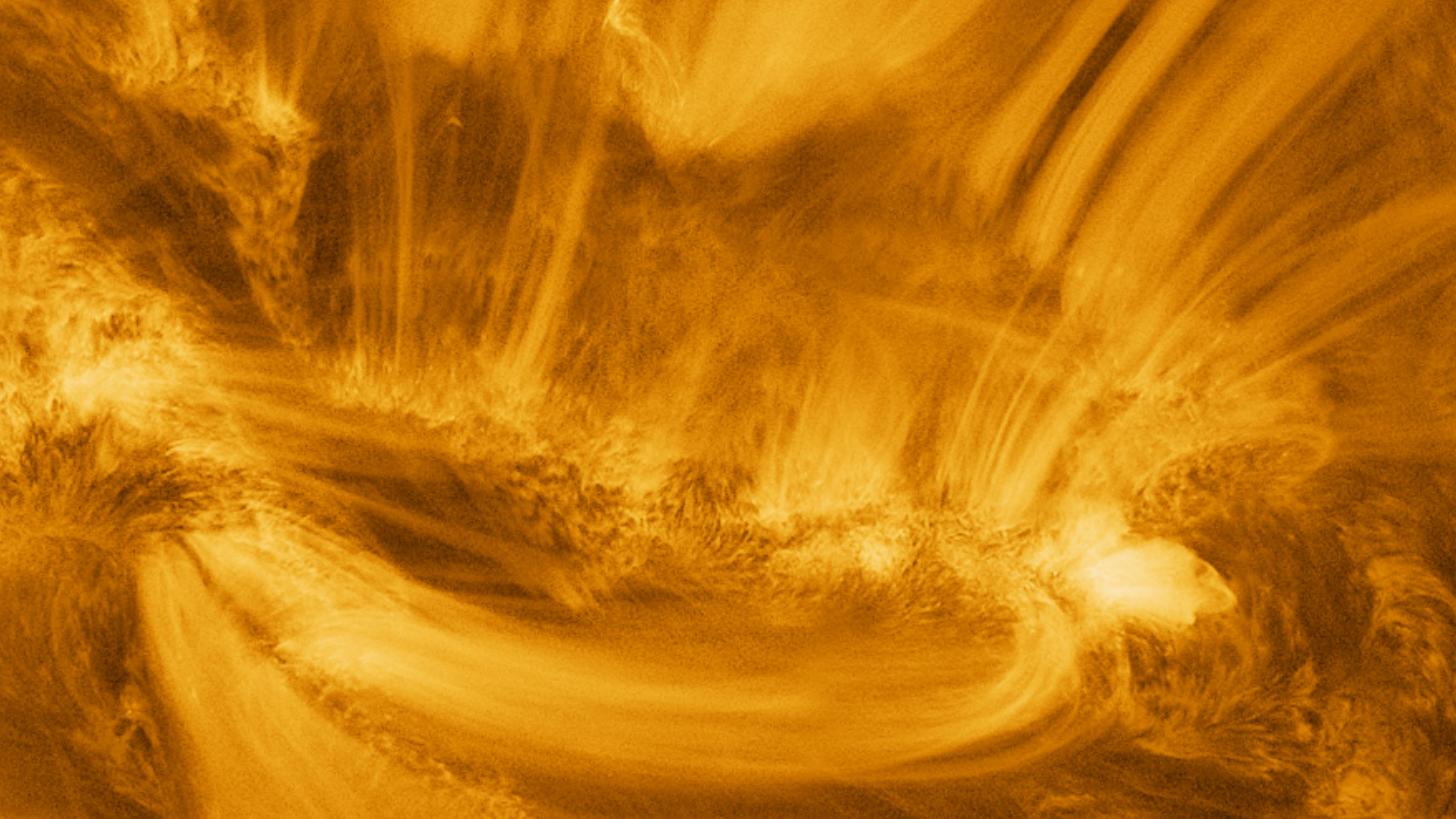
2023 March 22  
Dsun =0.4948 au

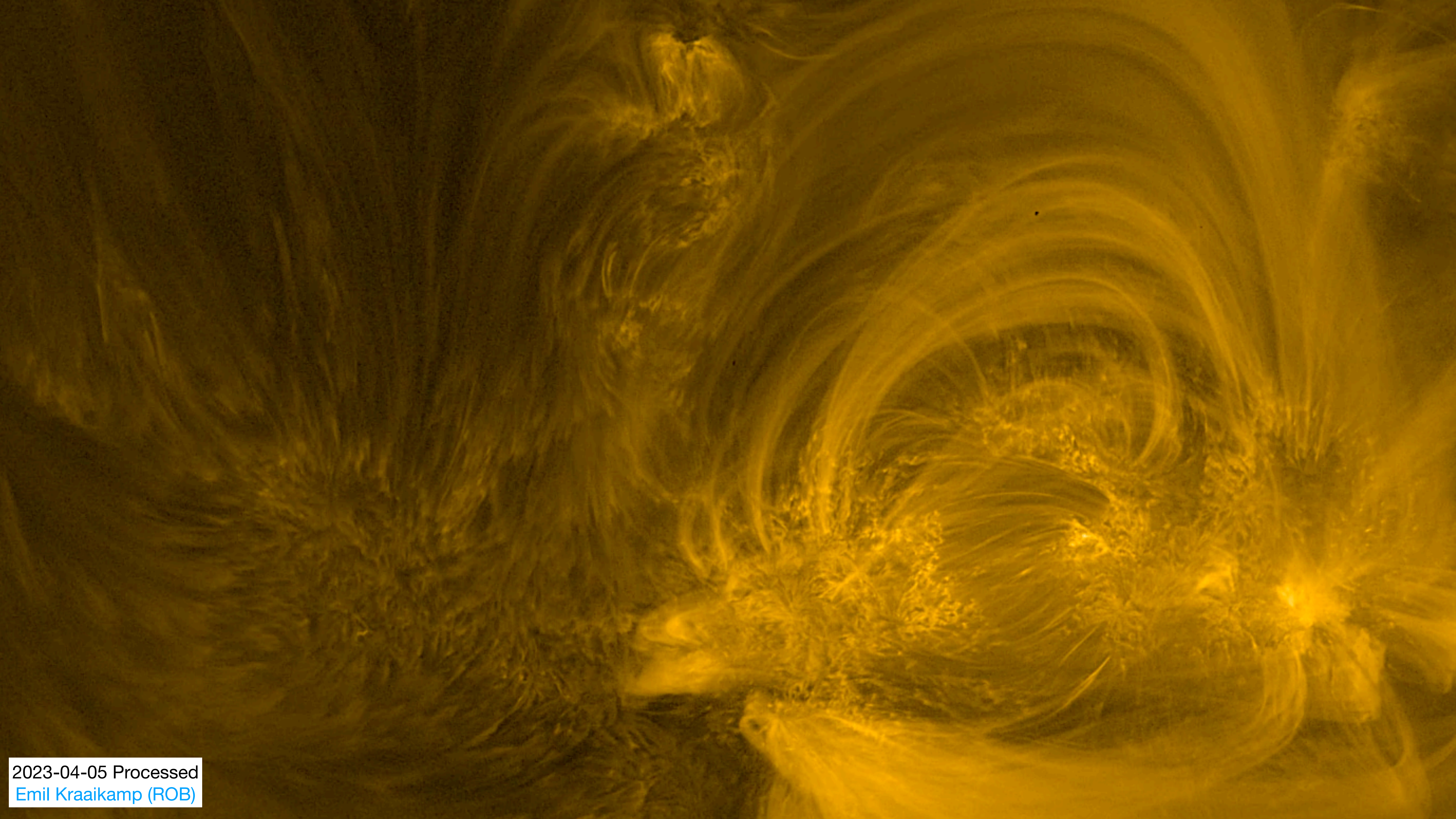


EUI HRI-EUV 174 2023-03-22T02:06:15.560 | D☉: 0.4939au

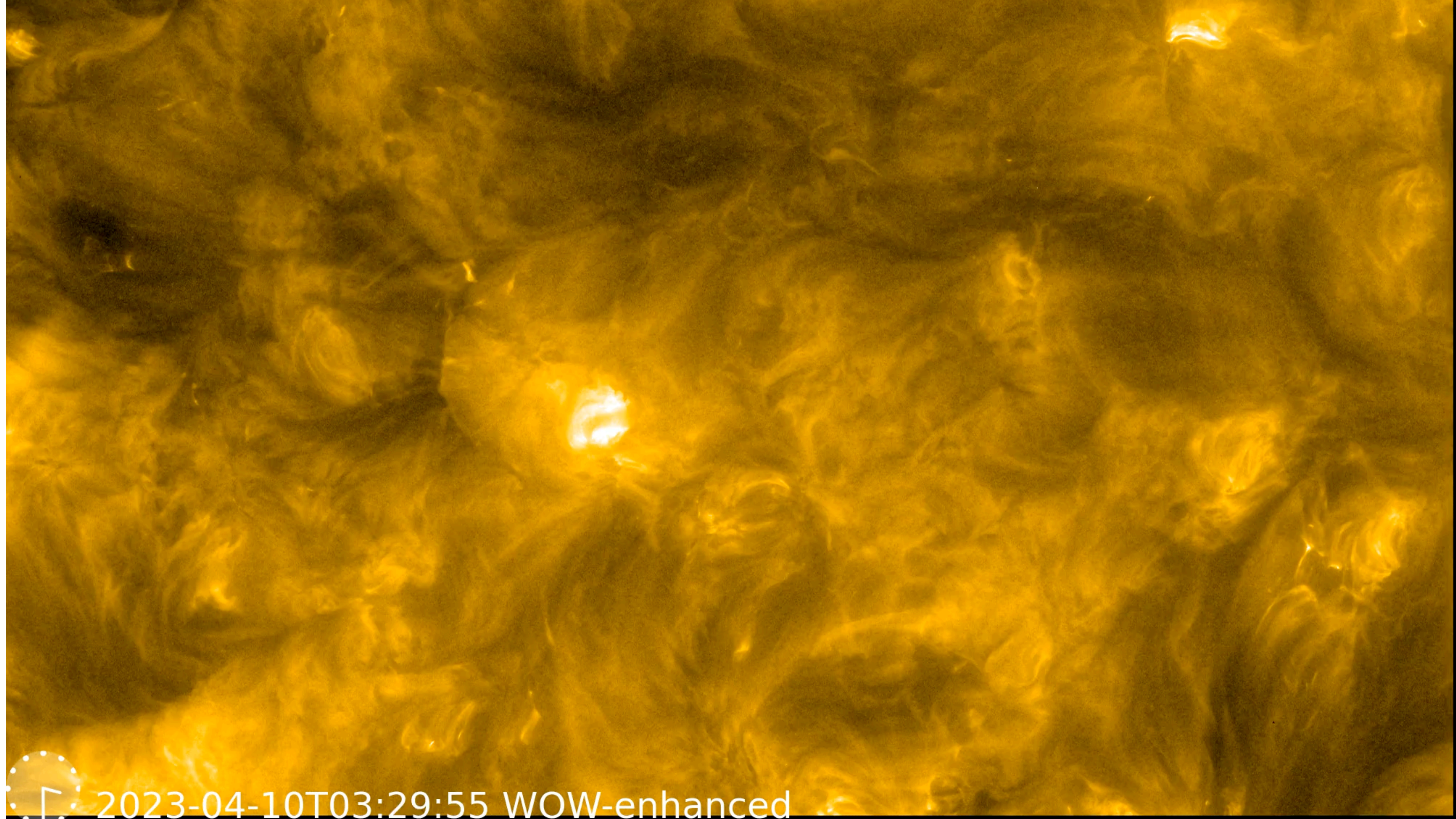


Emil Kraaikamp (ROB)

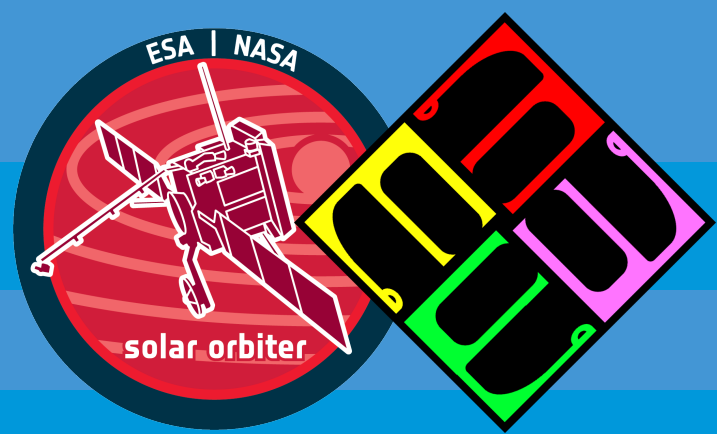




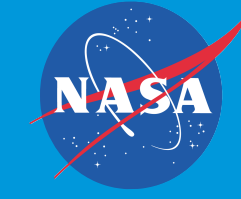
2023-04-05 Processed  
Emil Kraaikamp (ROB)



2023-04-10T03:29:55 WOW-enhanced

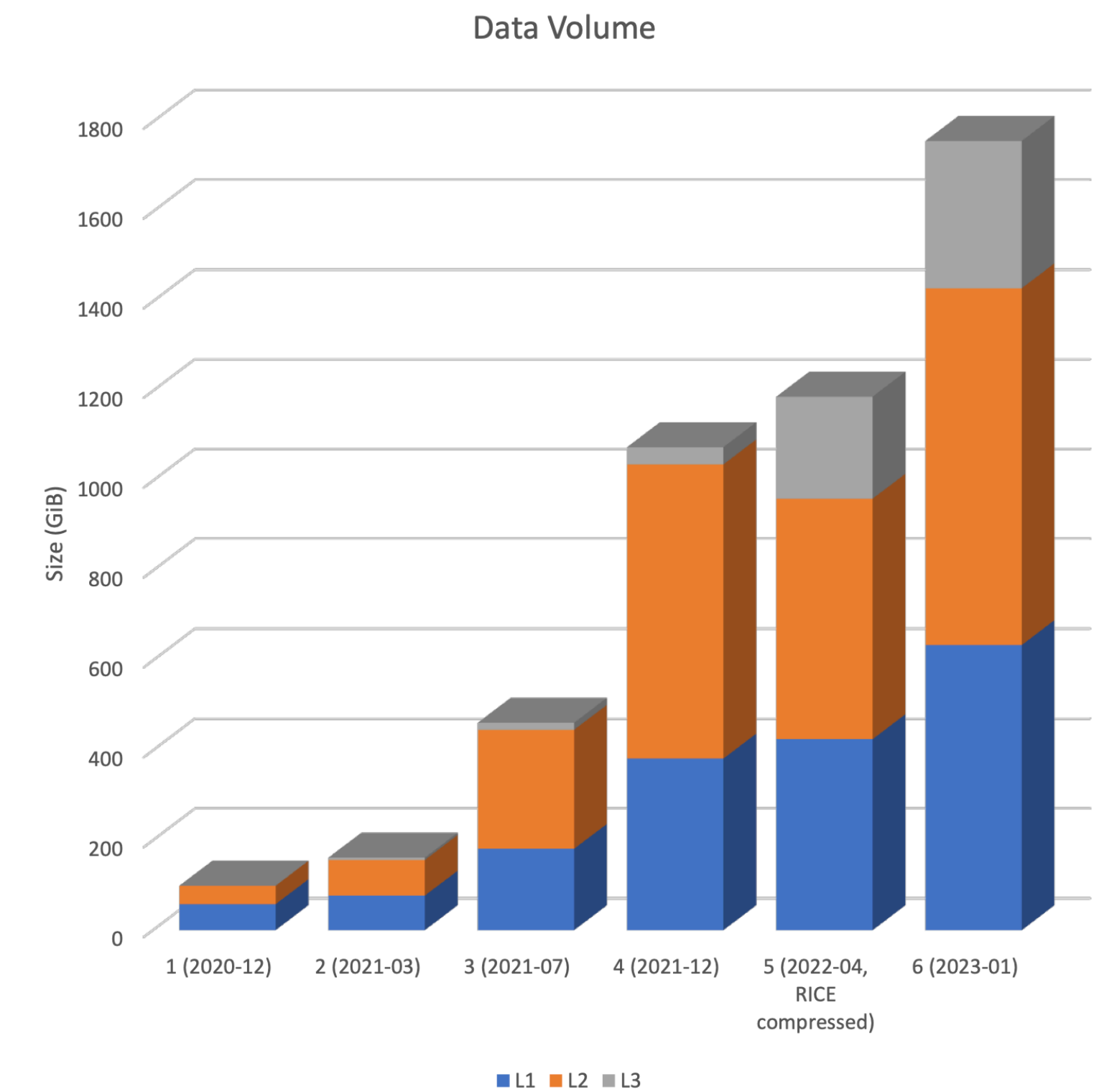
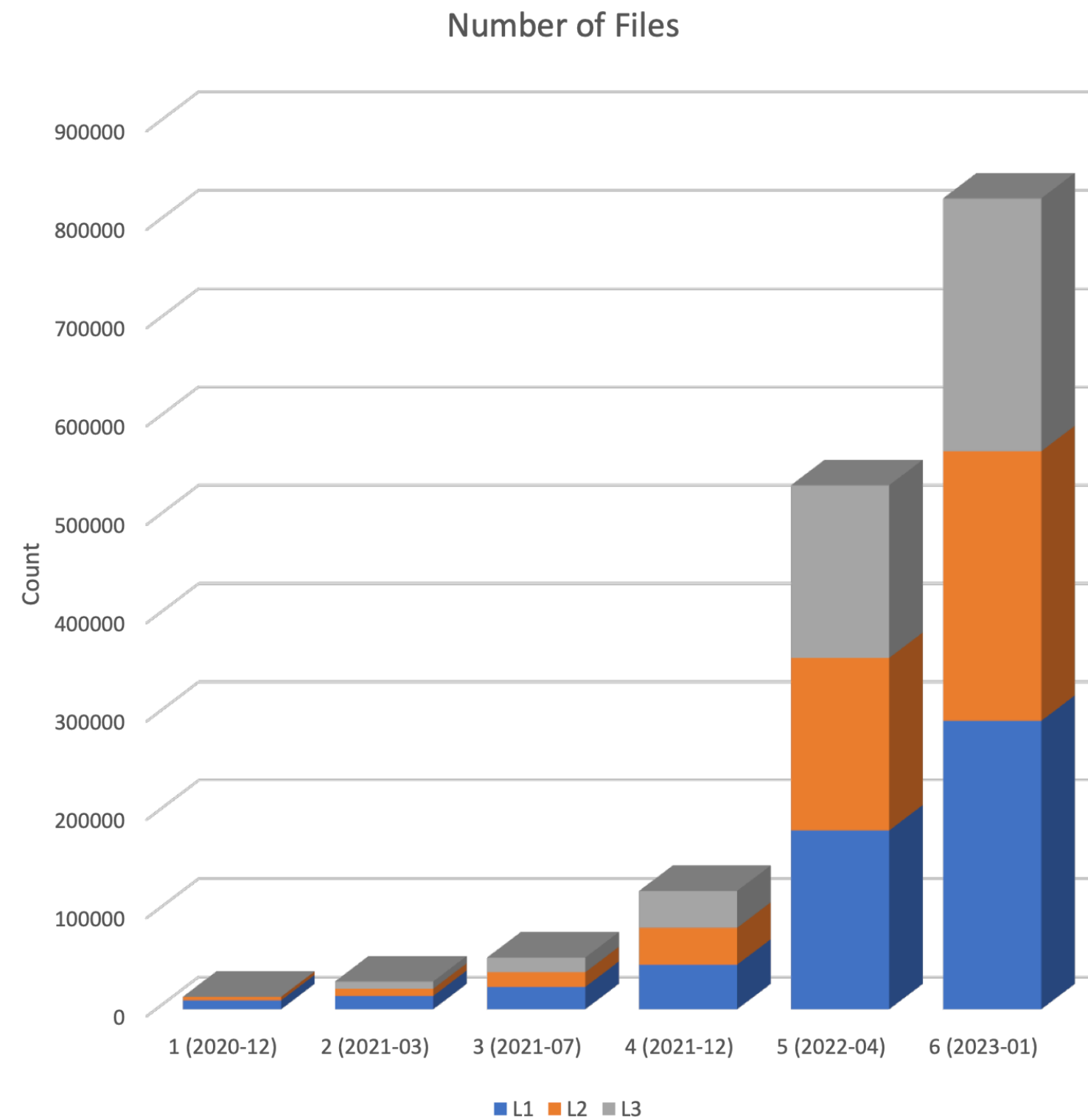


# Data release 6



- data till 2023-01-10
- 270k images
- reprocessing takes 3 days
- new filename descriptors
  - image
  - image-led, image-darl
  - image-occulter
  - image-short

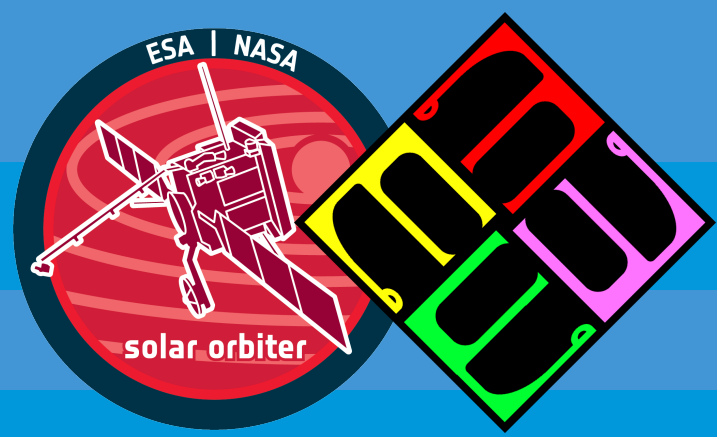
## Data Release - size



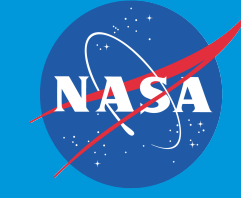
SOAR

<https://www.sidc.be/EUI/data/releases/>

<https://doi.org/10.24414/z818-4163>



# Future operations



- testing
  - HRIEUV continuous mode + FSI synoptics
  - EUV flare triggering
  - react to incoming STIX flare trigger
- limb observations
- flare hunting together with STIX