



EUI reportJun 1 - Sept 16 = STP 312 - 327

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SWT 2024 Sept 16

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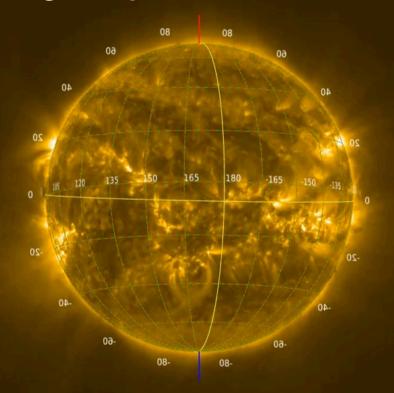


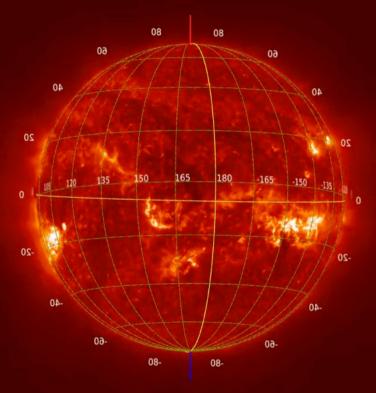
Recent Highlights

- Synoptics: solar back side
- July 7: HRILYA aphelion campaign
- July 18: software update
- Aug 1: Test 1s cadence sequence
- Sept 7: status nominal, 2 GiB of data in SSMM
- Sept 13: FSI occulter campaign, He abundance SOOP with Metis
- Sept 17?: First post-opposition contact
- Oct: Data Release 7: improved fixed pattern noise removal, improved pointing keywords, etc
- Joint EUI-STIX consortia meeting

Synoptics (Low TM variant)

strong compression, no shorts, 304@12h cadence, 174@10min cadence





2024-09-07T12:00:20.186 EUI FSI 304 | D⊙: 0.5448aı

July 7 HRILYA aphelion campaing

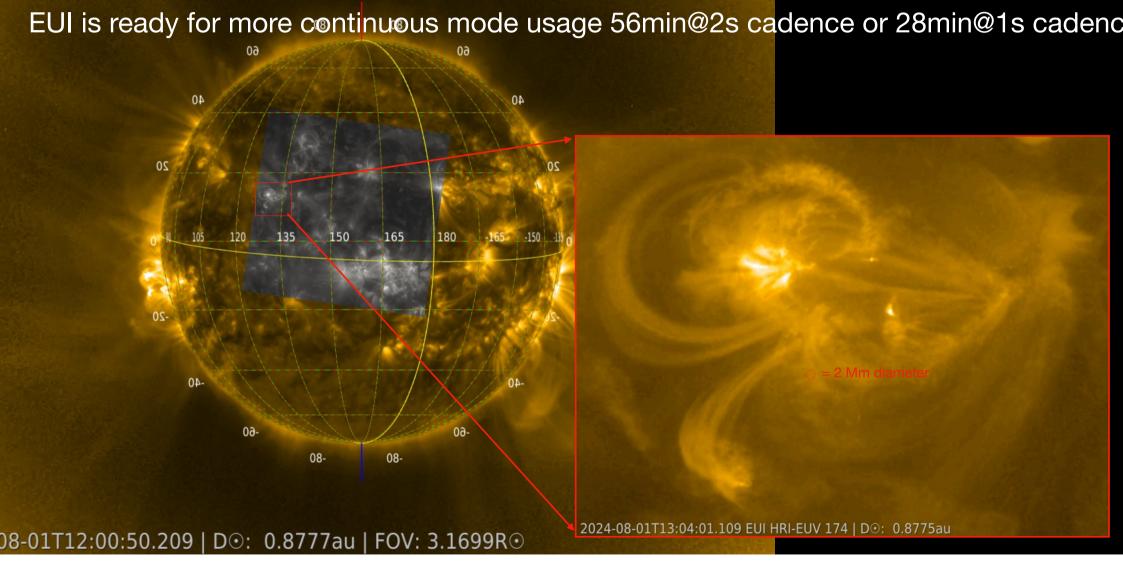
10s cadence regular images: 30s cadence, short exposures 5s cadence

2024-07-07T19:56:43.220 EUI HRI-EUV 174 | D⊙: 0.9521au 2024-07-07T19:56:42.213 EUI HRI-LYA 1216 | D⊙: 0

July 18 software update

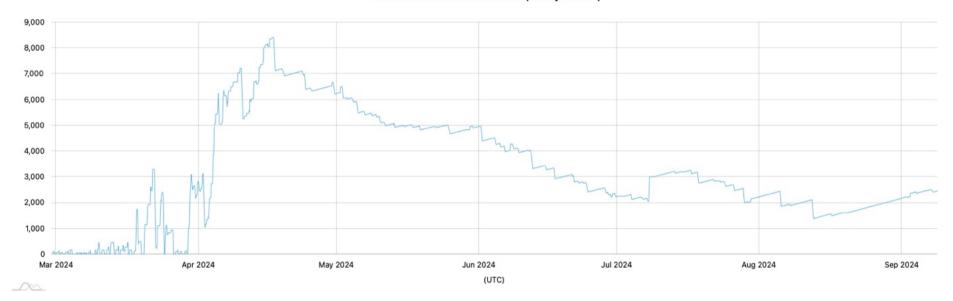
- bug corrections (clock jump backward, time comparison)
- onboard gain gradient map calculation
 - -> better onboard processing
- various improvements for event triggering
 - -> EUI is ready for new stand-alone flare triggering or collective RS IIC tests
- further continuous mode improvements

Aug 1: 1s cadence imaging -> RS Burst Oct 19 19:00



Data

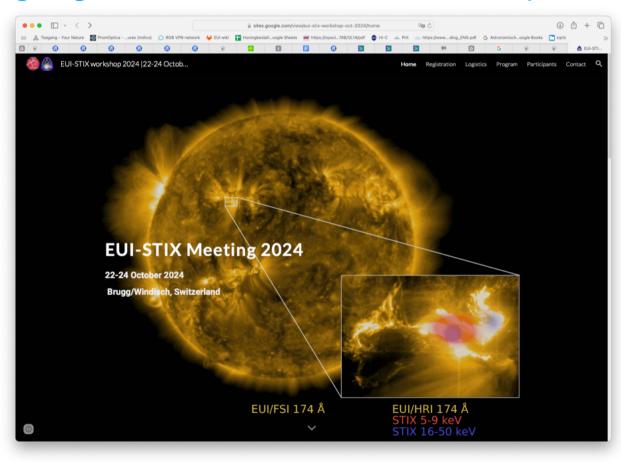
NSM00869 PS12 Accumul Data (Hourly median)



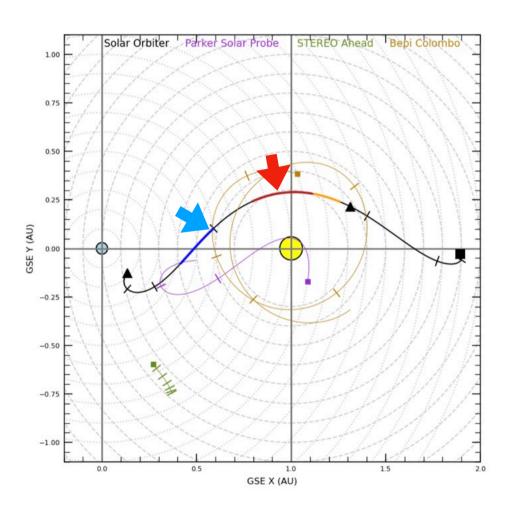
- data at SOAR till 2024-07-12
- for PDMs: https://www.sidc.be/EUI/data/lastDayFSI/ now contains L2 low latency images
- iVSTP exposure time changes at PDM: out of 8 cases: 5 improvement, 2 neutral, 1 negative

Joint EUI-STIX meeting

https://sites.google.com/view/eui-stix-workshop-oct-2024/home



High Resolution wish list July- Dec 2025



- 1. at perihelion for max spatial /temporal resolution
 - Nanoflares SOOP, target quiet Sun
 - RS Burst, target active region
- 2. at max 30 deg with Earth but close to the Sun for co-observation with AIA and IRIS
 - Nanoflares SOOP target quiet sun
 - Nanoflares SOOP target Coronal hole Boundary
- 3. Several instances from perihelion to Earth-aligned
 - Major Flare Watch

SWT-40 2025 April 7-11, Royal Observatory of Belgium

