EUI report
March 17 - Sept 20 = STP 402 - 427

D. Berghmans for the EUI consortium

SWT43 @ Online

Contact: david.Berghmans@sidc.be (PI)

Status

- EUI is **nominal**, since Monday out of RSW and taking synoptics only

work of Konstantina Loumou

- Past months noteworthy events
  - June 24: Software update a.o. to fix time jump
  - June 25: “Unsynchronized packets”
  - July 1: software patch

work of Phil Smith (MSSL)

work of Cis Verbeeck

- @Belgium extension PRODEX operations contract still under discussion
- All data up till 2026 March 31 to SOAR.
  > March 31 waiting for server repair but Release 6 quality data available on demand

work of Emil Kraaikamp

- Upcoming: Annealing campaign Oct 19-21

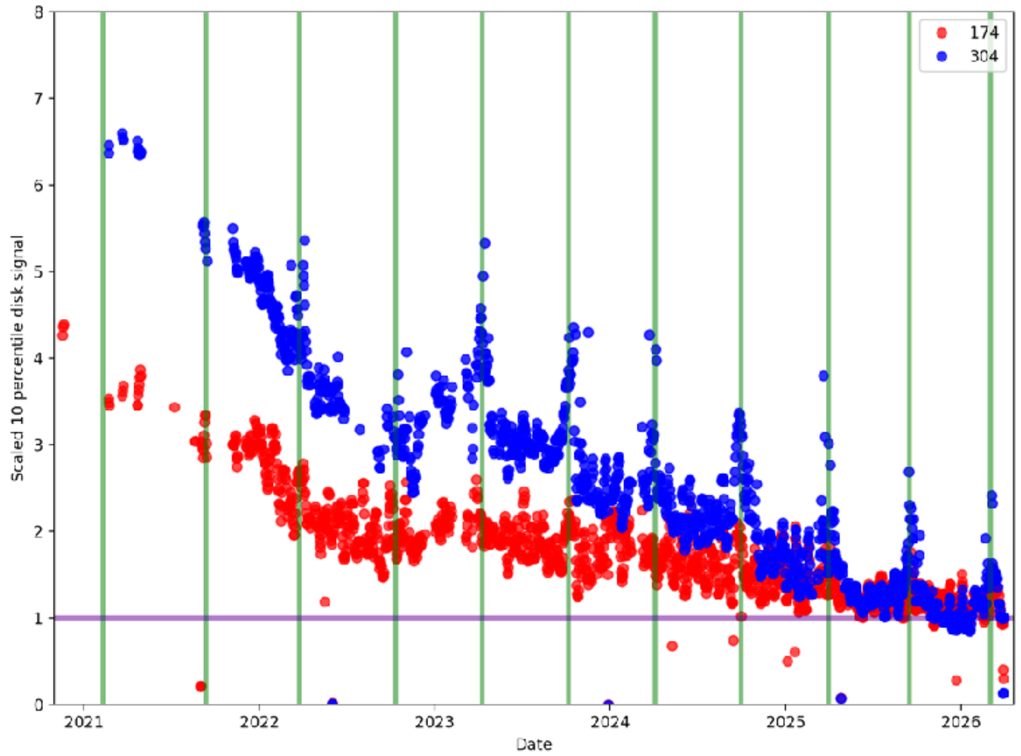
work of Ewan Dickson

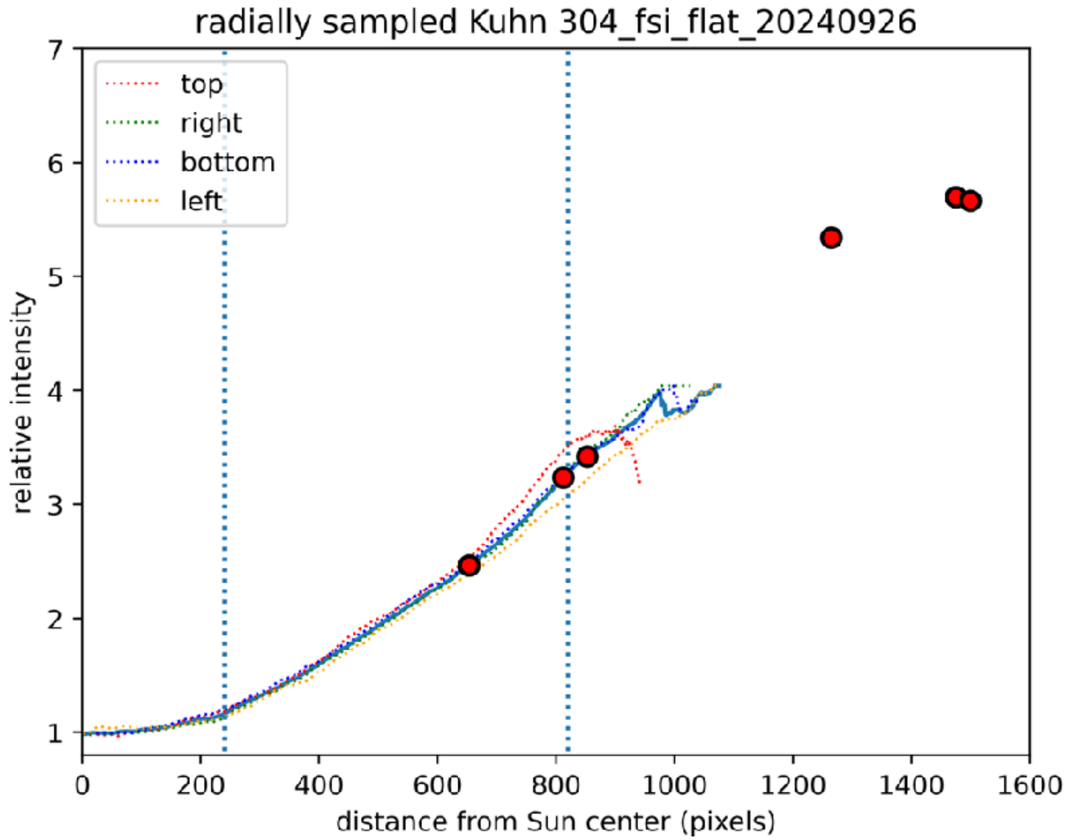
6 years of sensor degradation

work of Ewan Dickson
https://www.sidc.be/EUI/data/calibration/

work of Emil Kraaikamp
in prep

FSI on-disk brightness (10% percentile)



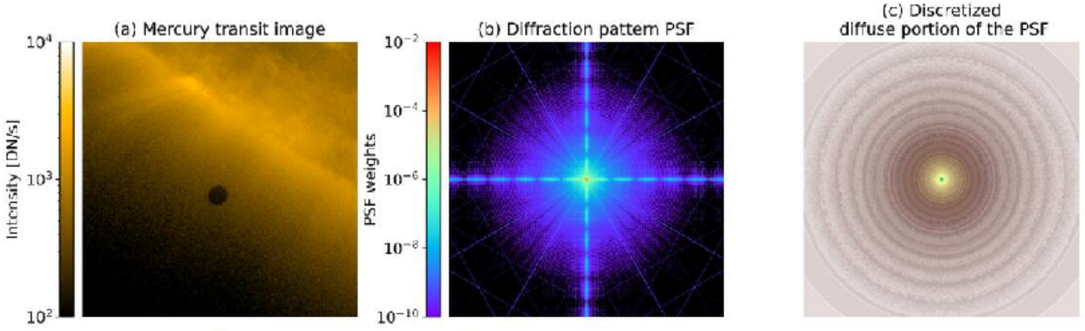


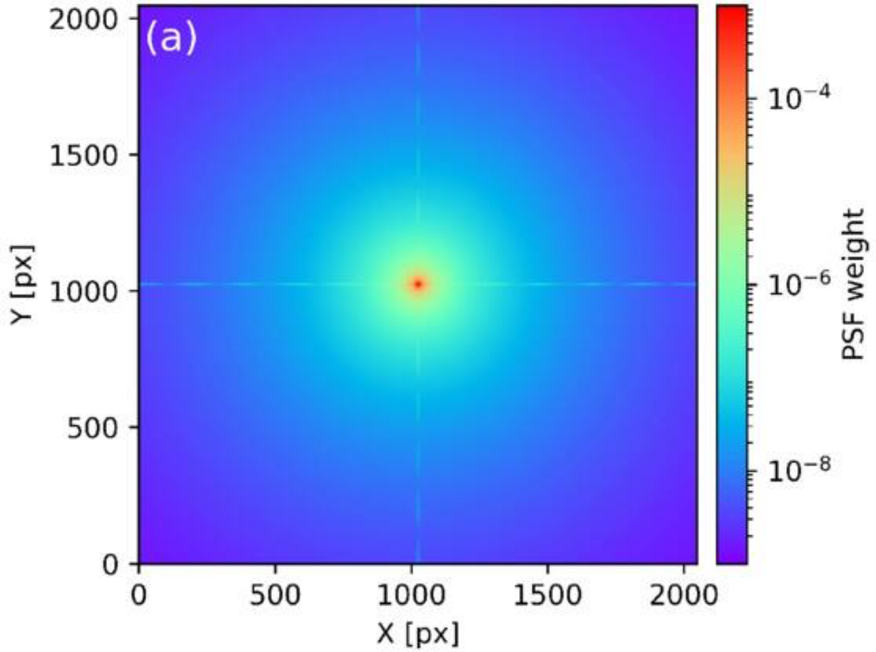
FSI304: ~ Factor 6

FSI174: ~ Factor 4

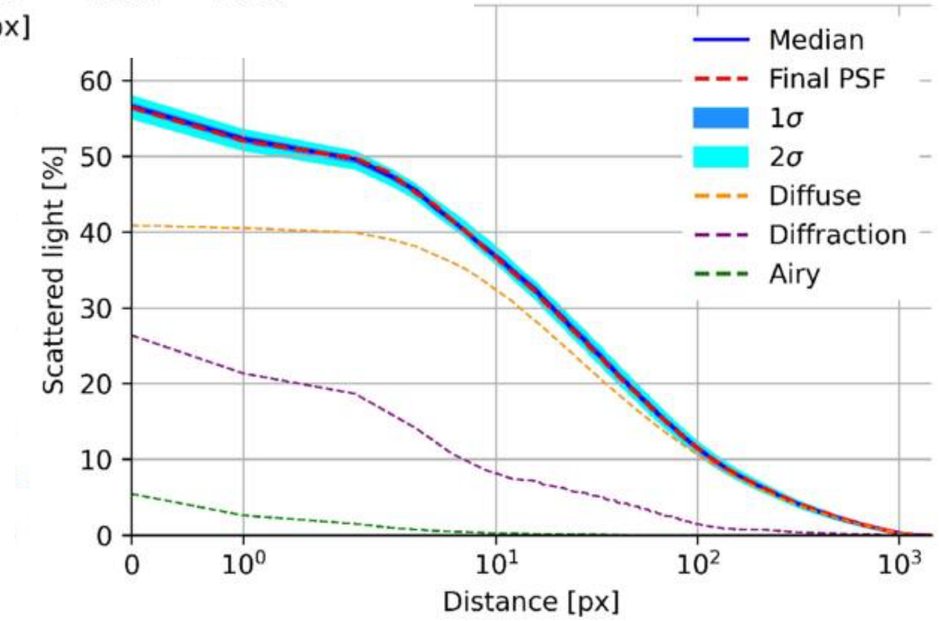
HRIEUV PSF deconvolution

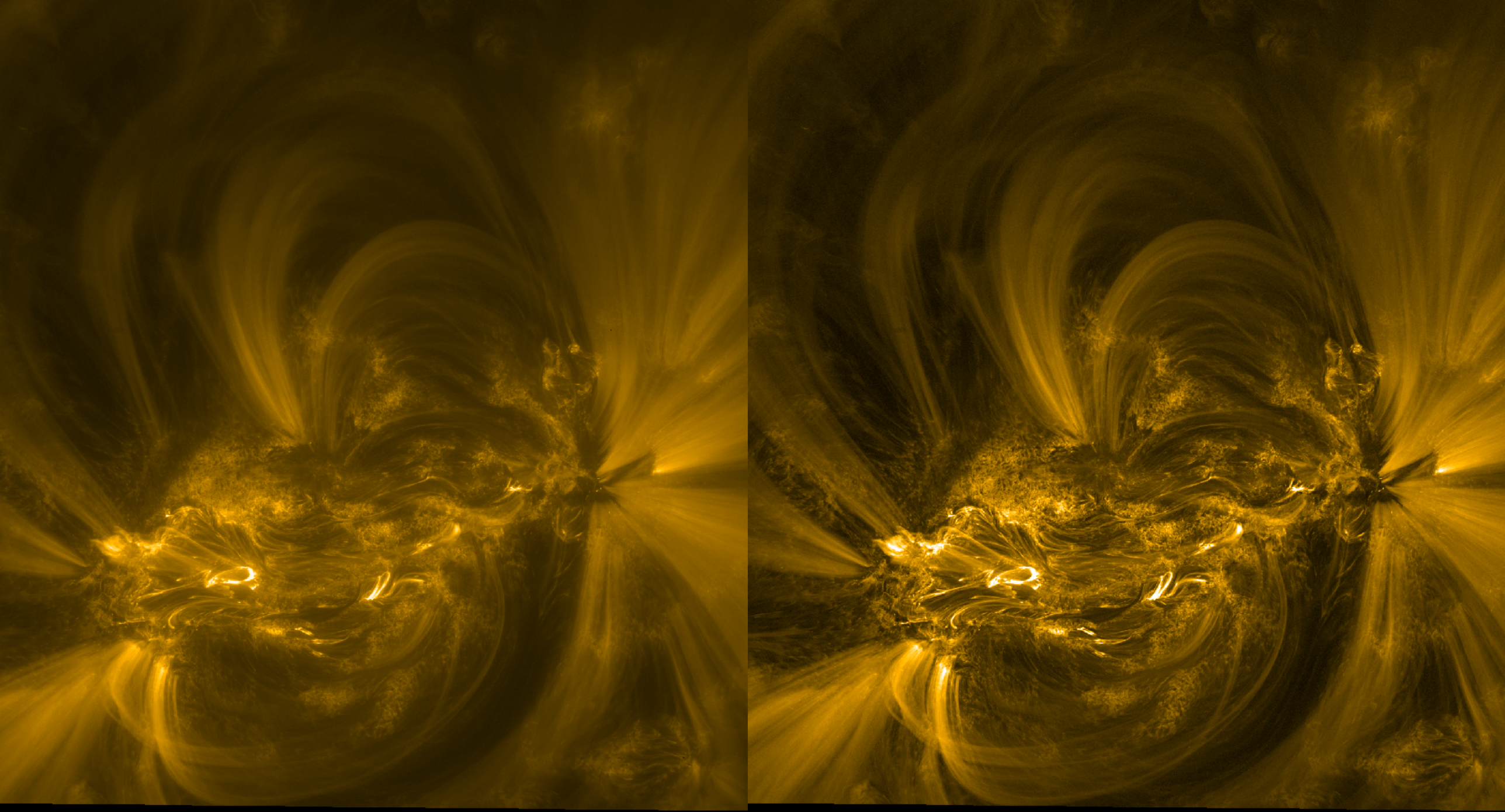
work of Stefan Hofmeister (ETH)
ApJ 2026

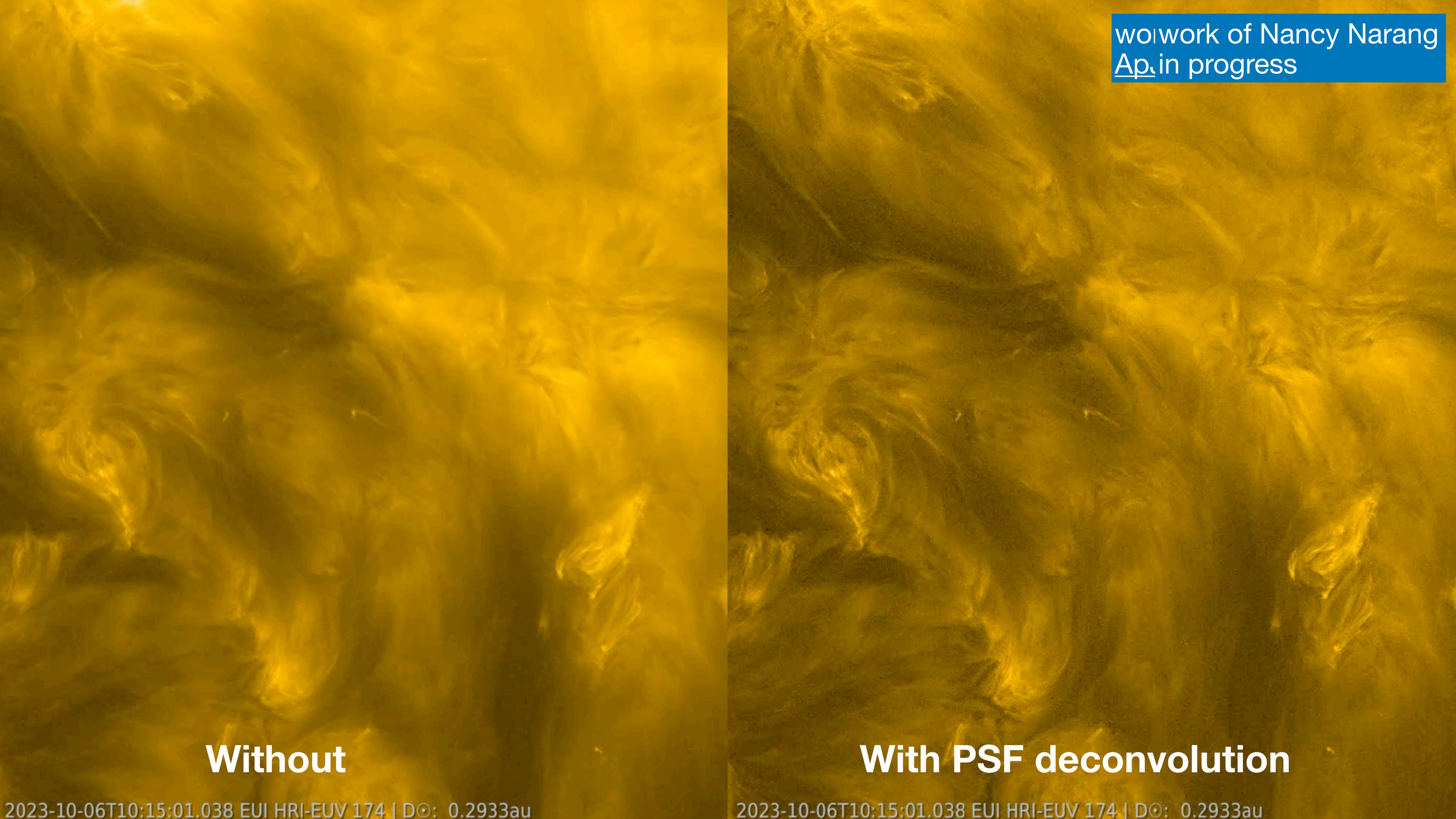




- Decision
  - to apply this L3 HRIEUV files, intended for visualization
  - Not to apply this to L2 HRIEUV images
  - Software to deconvolve the PSF from L2 images: Gitlab link
- Current state
  - Currently applied to all L3 images in SOAR
  - Applied to all L3 in jHelioviewer BEFORE 2026 March 31, rest will come later

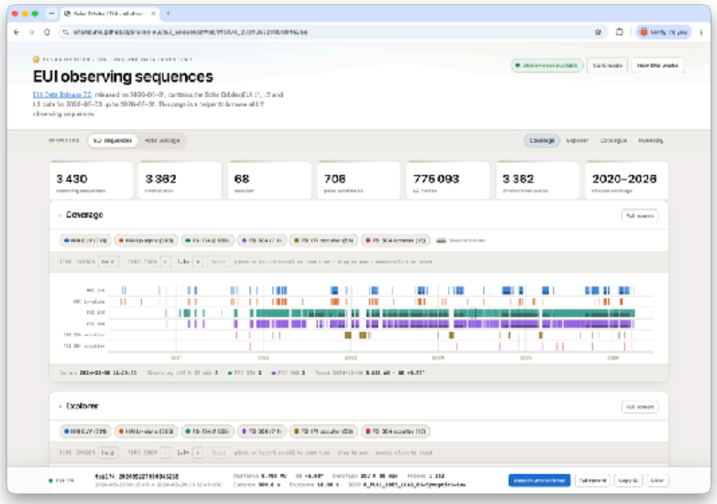


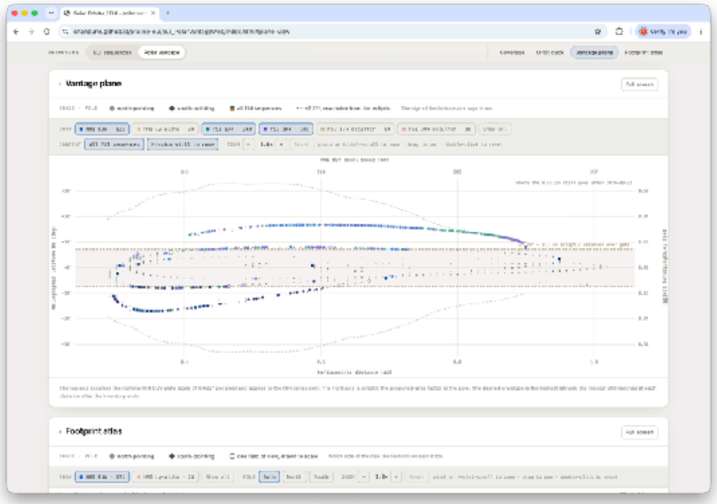


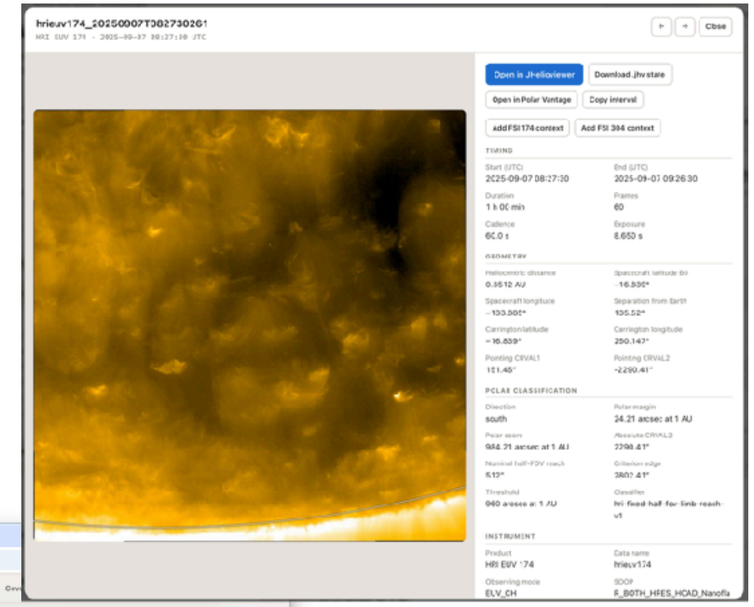

work of Nancy Narang
Ap. in progress
Without
With PSF deconvolution
2023-10-06T10:15:01.038 EUI HRI-EUV 174 | D☉: 0.2933au
2023-10-06T10:15:01.038 EUI HRI-EUV 174 | D☉: 0.2933au

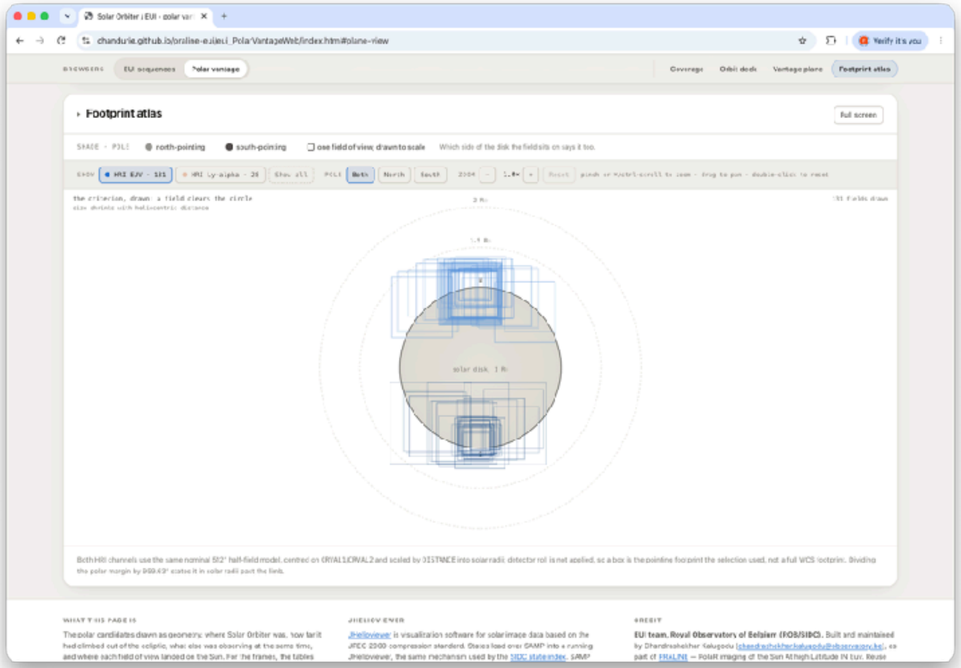
EUI Sequence Identifier

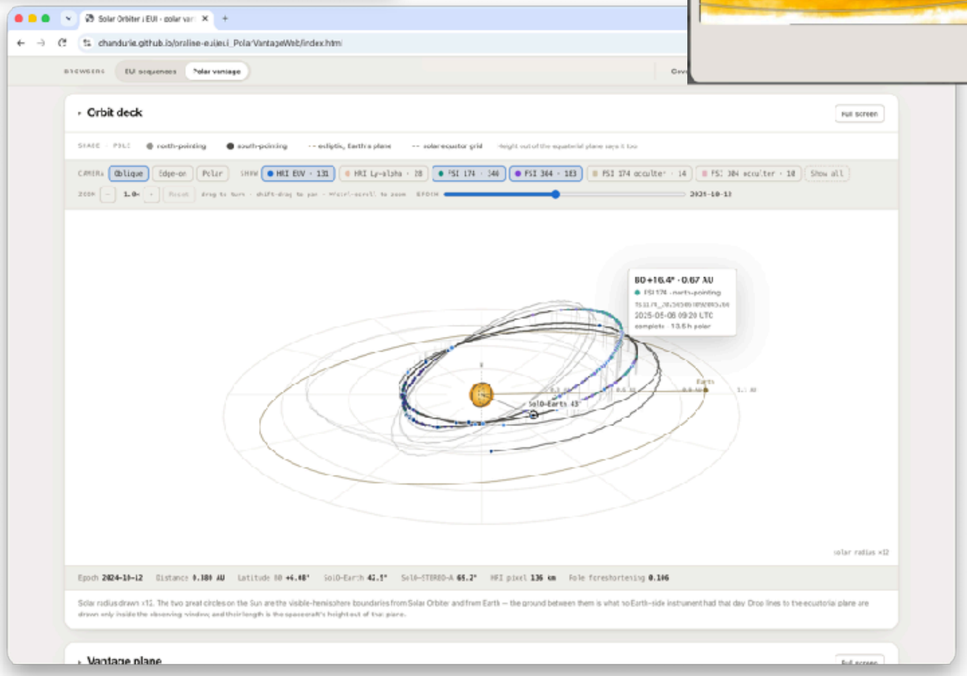
work of
Chandrashekhar Kalugodu
Github link

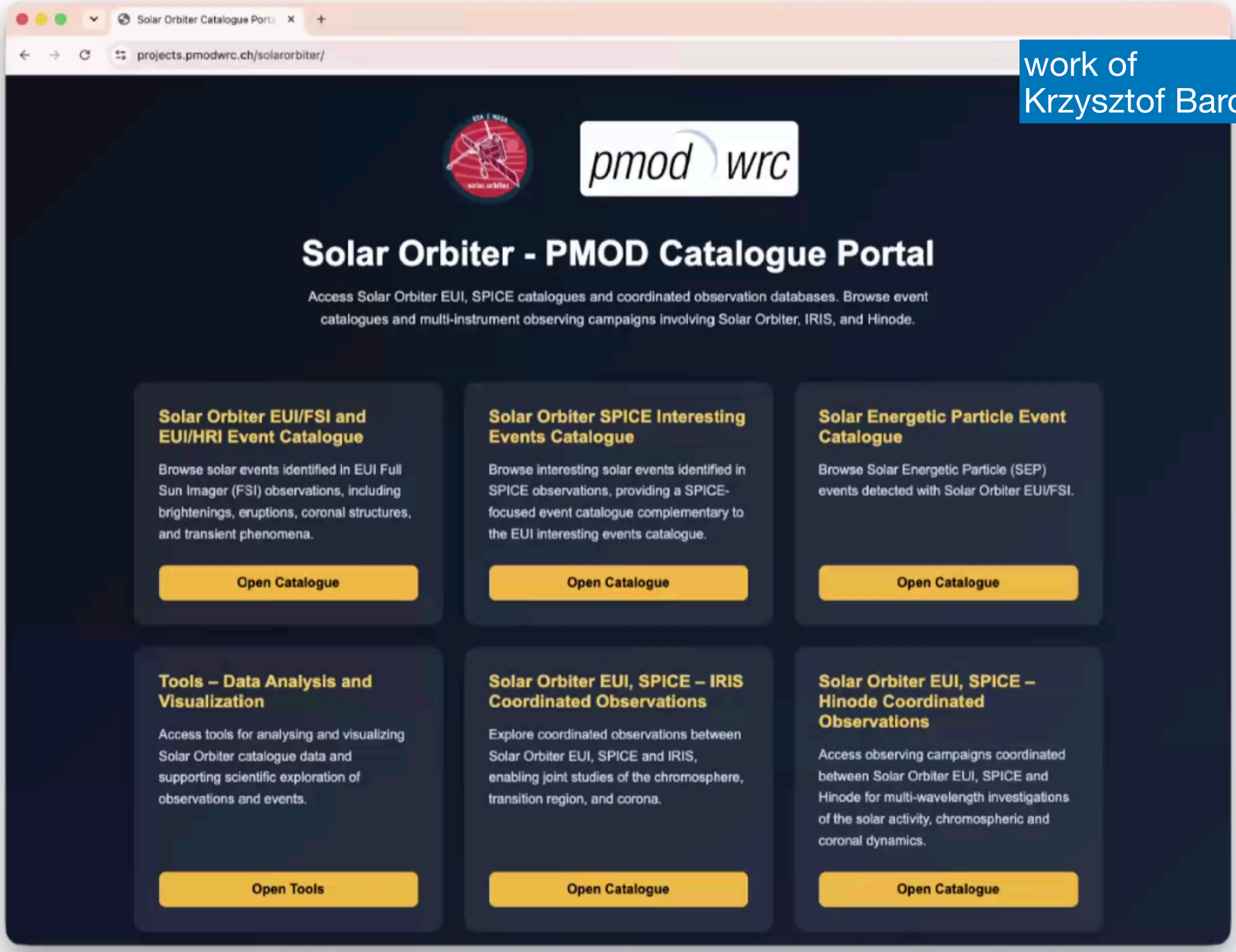






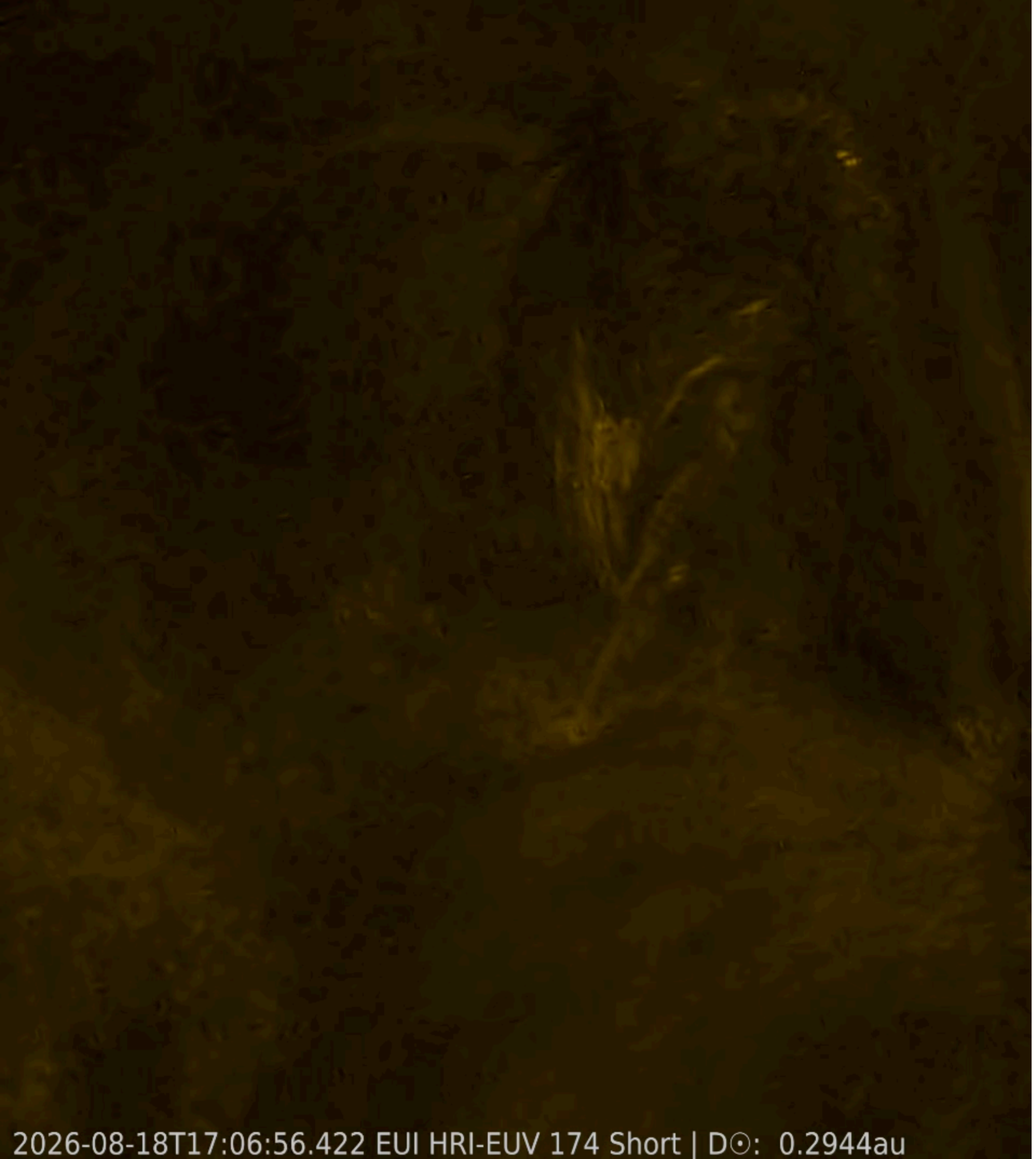






work of
Krzysztof Barczinski (PMOD)

Fun Flare observations



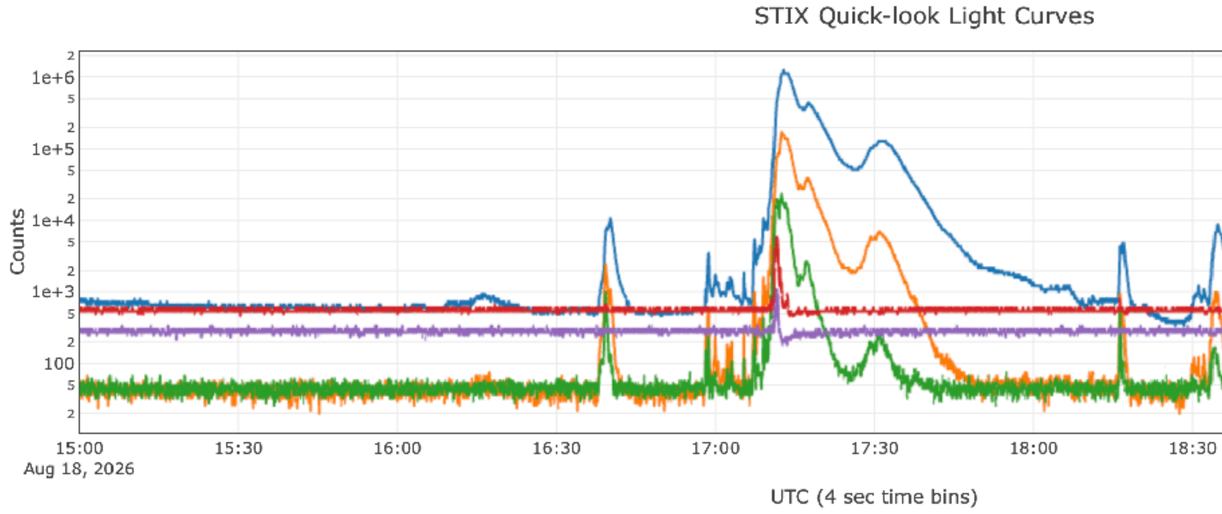
2026-08-18
Flare Hunting campaign

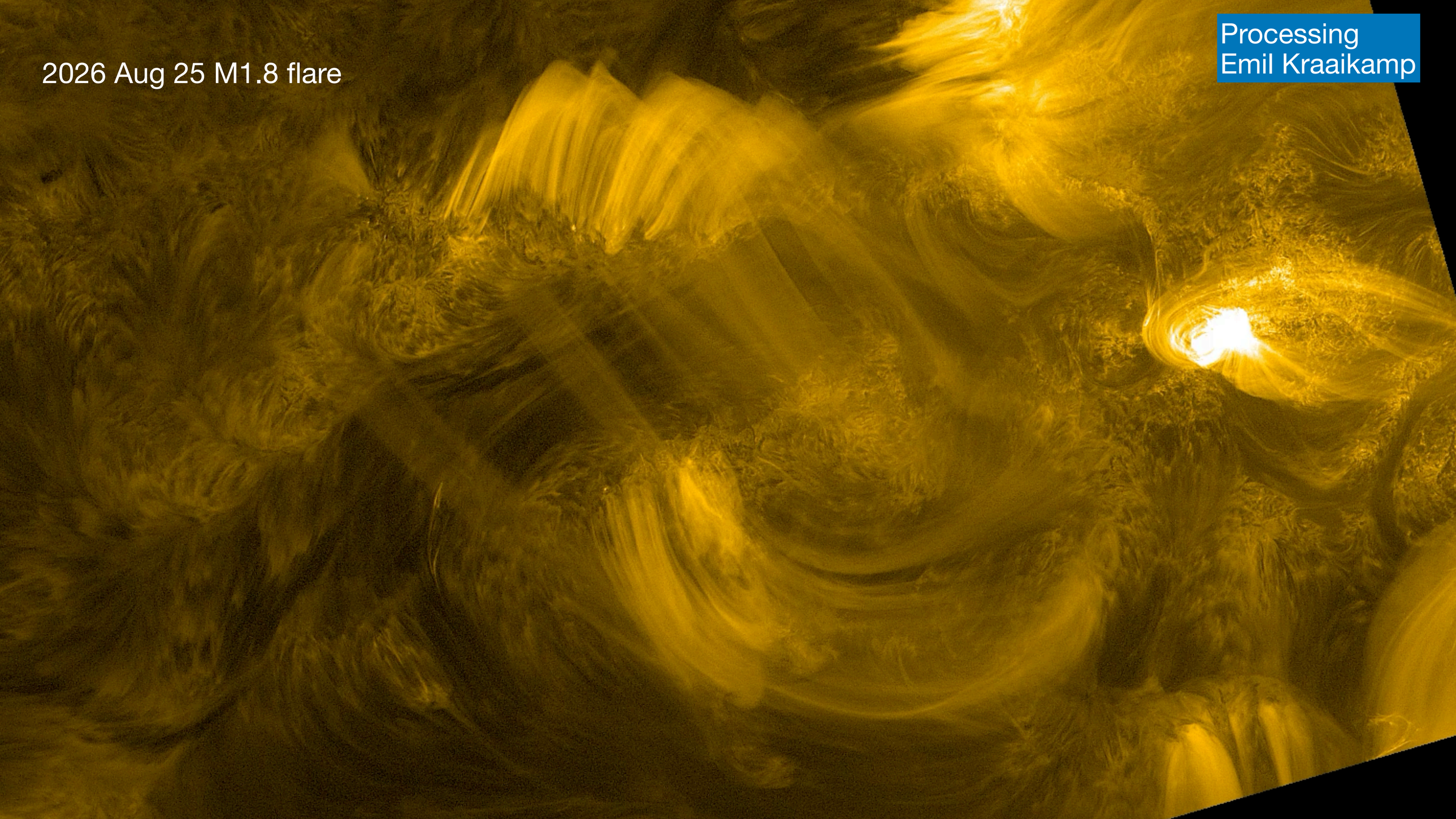


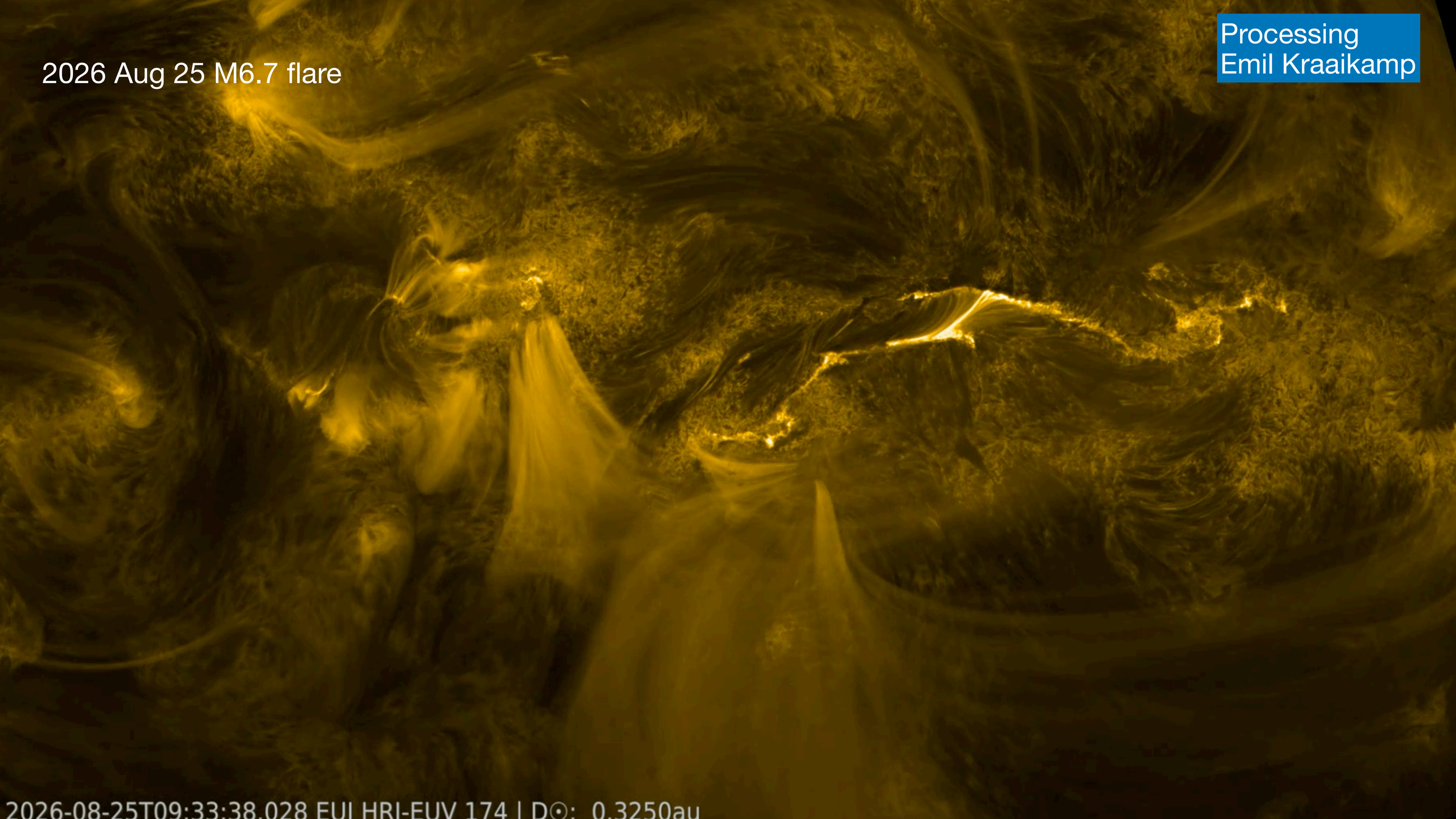
STIX triggered

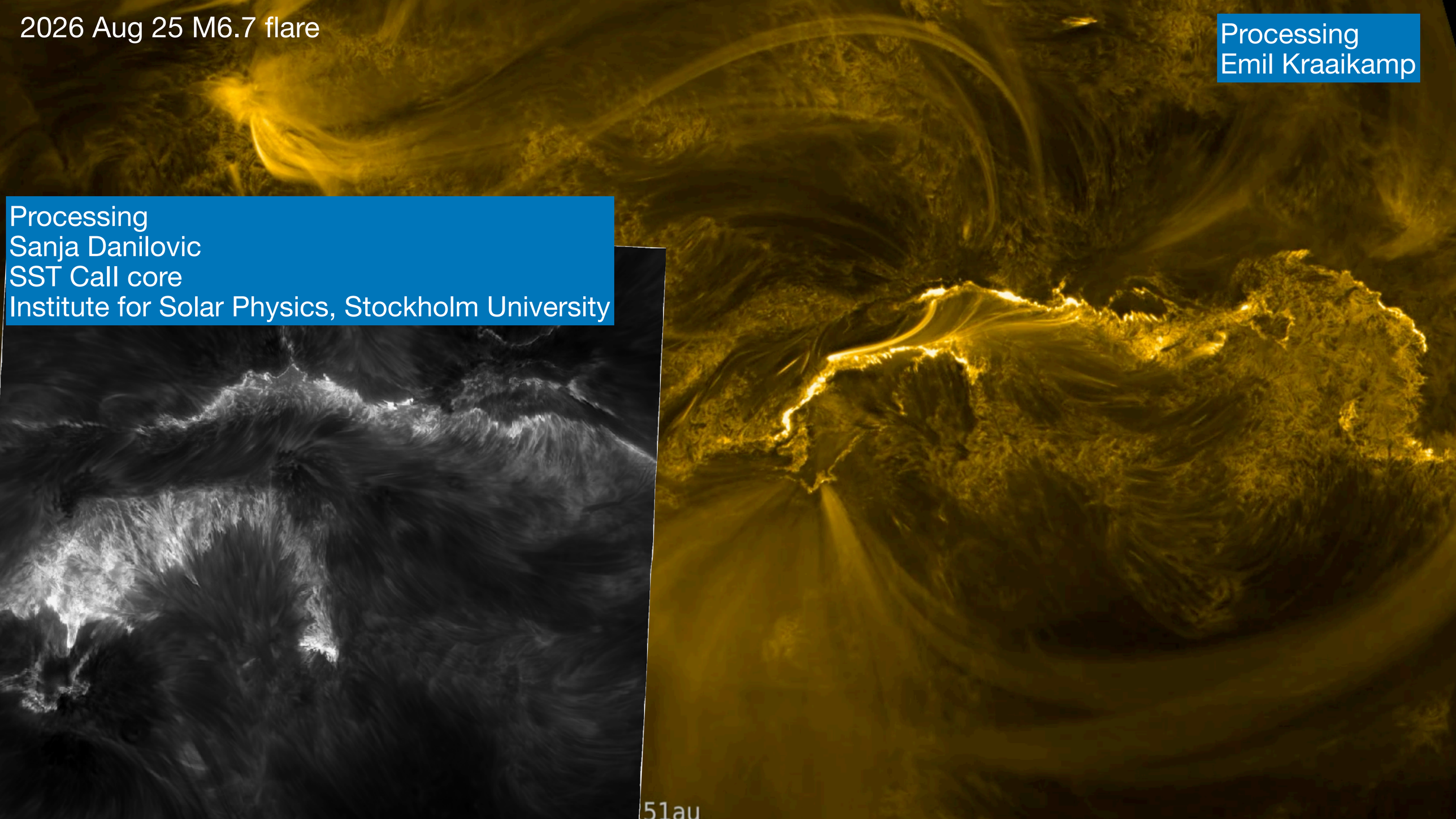
thermal flare index >=3 (~M1)

Flare Hunting
STIX triggered



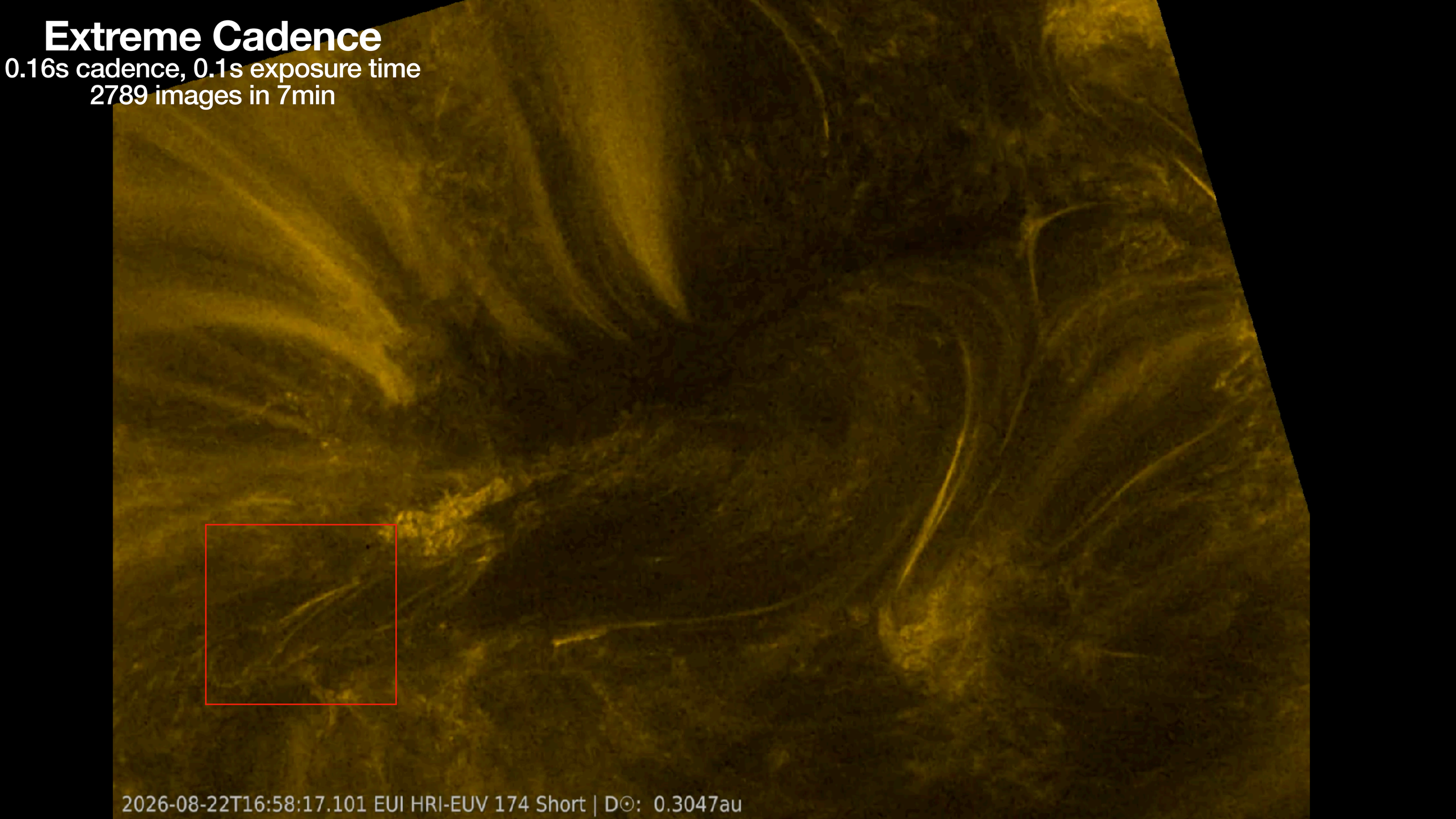

2026 Aug 25 M1.8 flare
Processing
Emil Kraaikamp


2026 Aug 25 M6.7 flare
Processing
Emil Kraaikamp
2026-08-25T09:33:38.028 EUI HRI-EUV 174 | D☉: 0.3250au

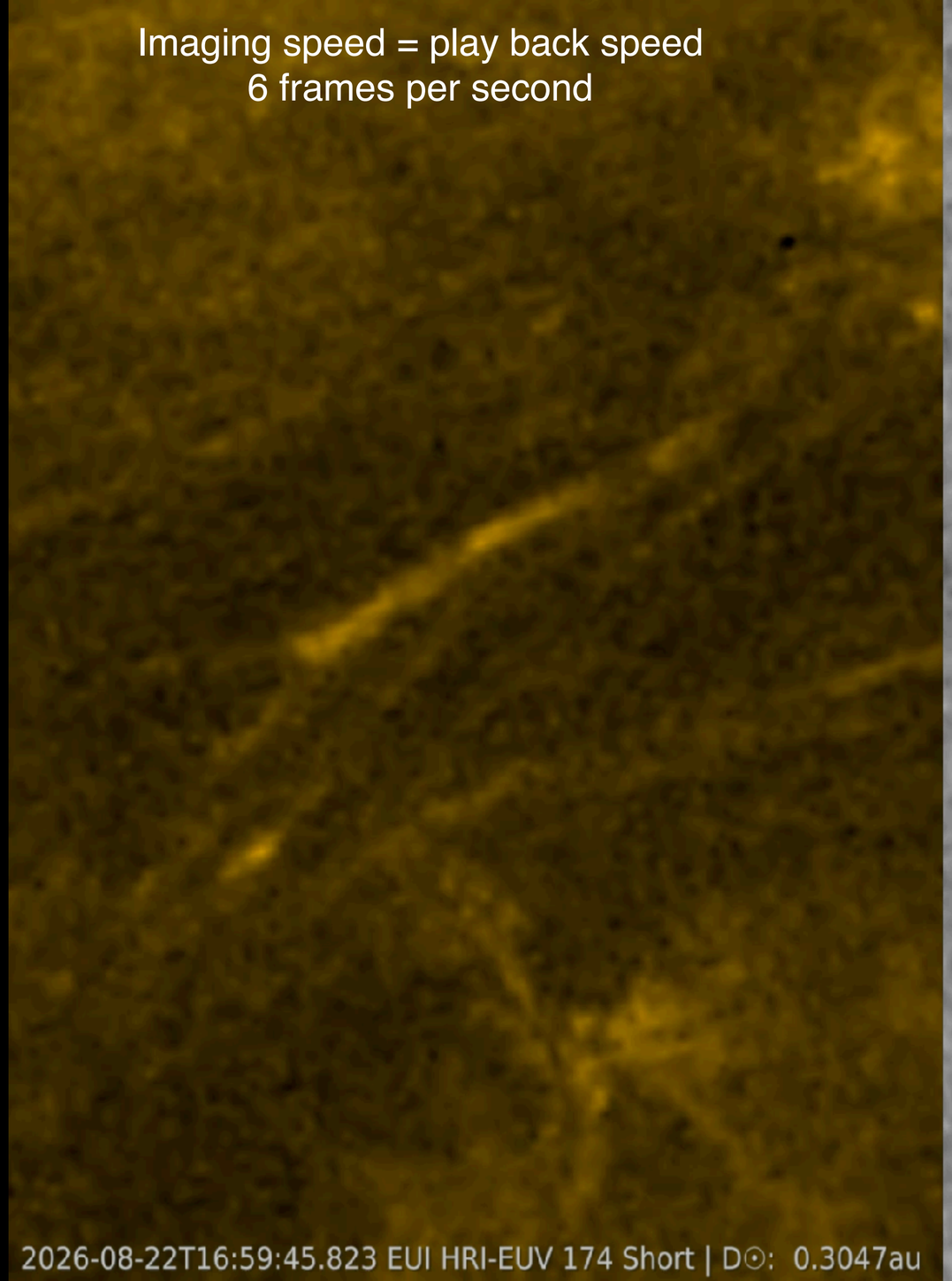

2026 Aug 25 M6.7 flare
Processing
Emil Kraaikamp
Processing
Sanja Danilovic
SST CaII core
Institute for Solar Physics, Stockholm University
51au

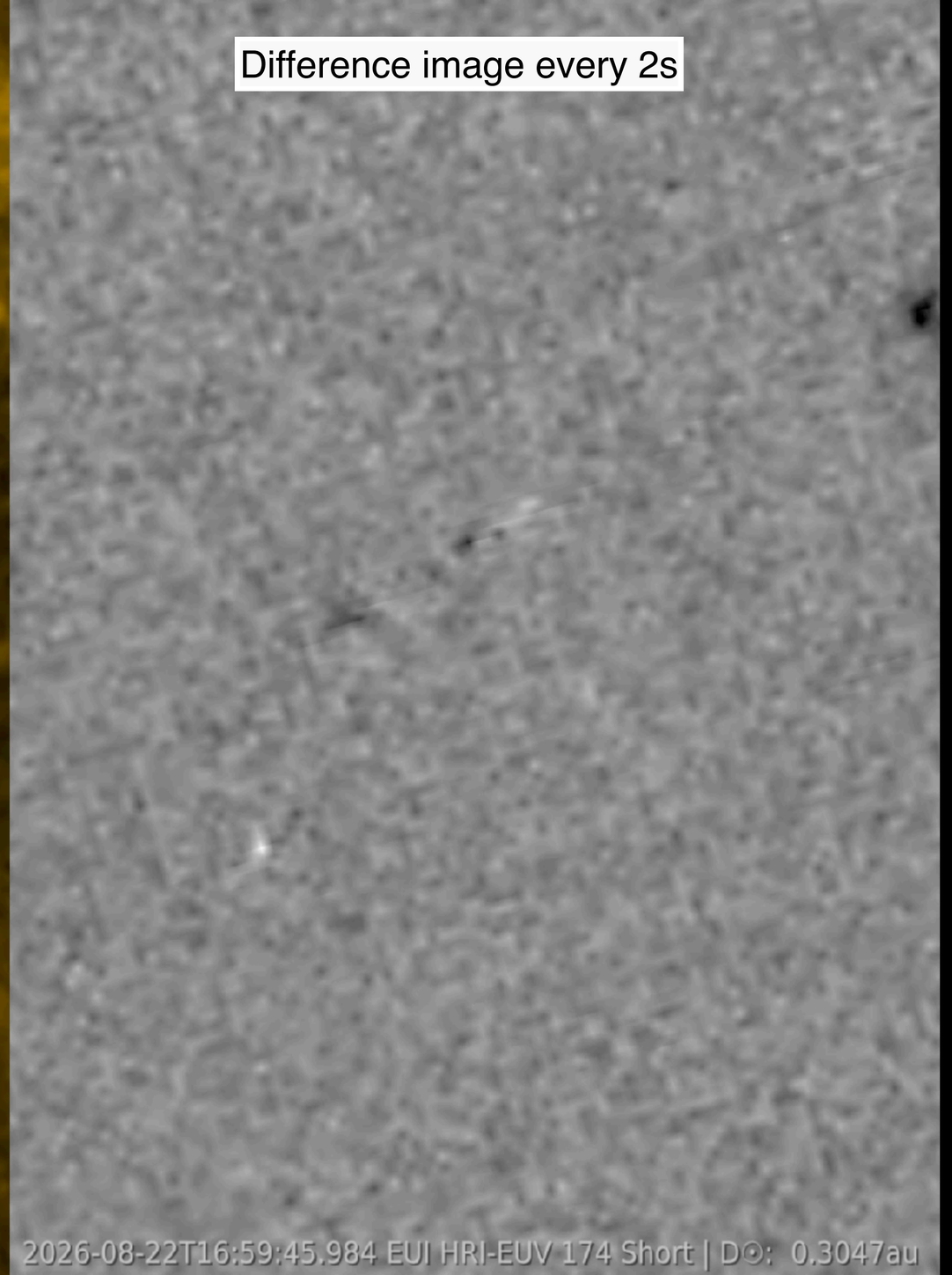
Extreme Cadence

0.16s cadence, 0.1s exposure time
2789 images in 7min



To be repeated in combination with STIX flare trigger in 2027/H1





https://sidc.be/EUI/data/movie/HRImovies/