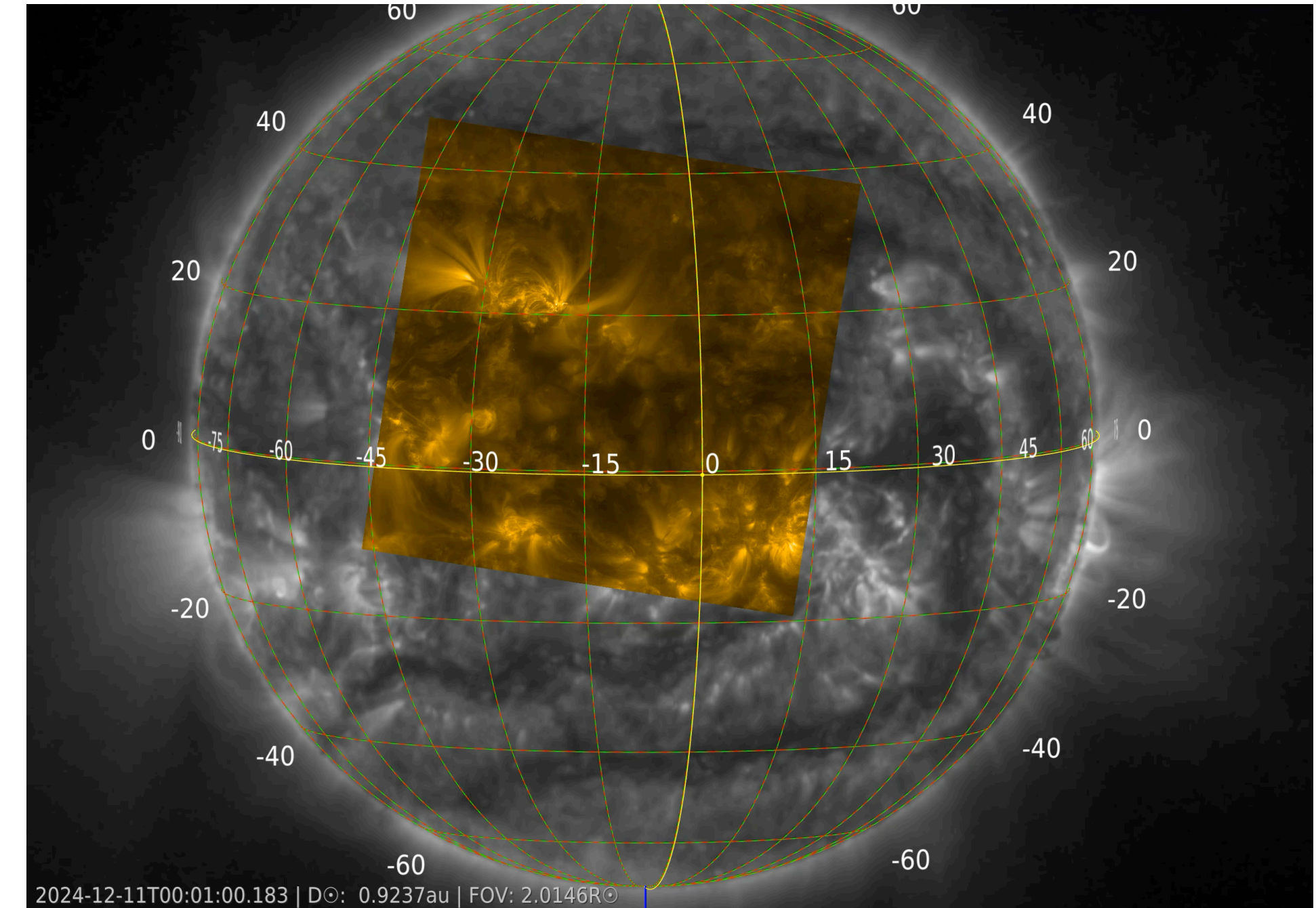


# EUI contribution to the PHI/STIX White-light flare campaign



**D. Berghmans, Konstantina Loumou, Emil Kraaikamp, Daye Lim, Cis Verbeeck @ ROB  
Udo Schuehle, Luca Teriaca, Regina Aznar @ MPS**

**SOWG 2025 Jan 14**

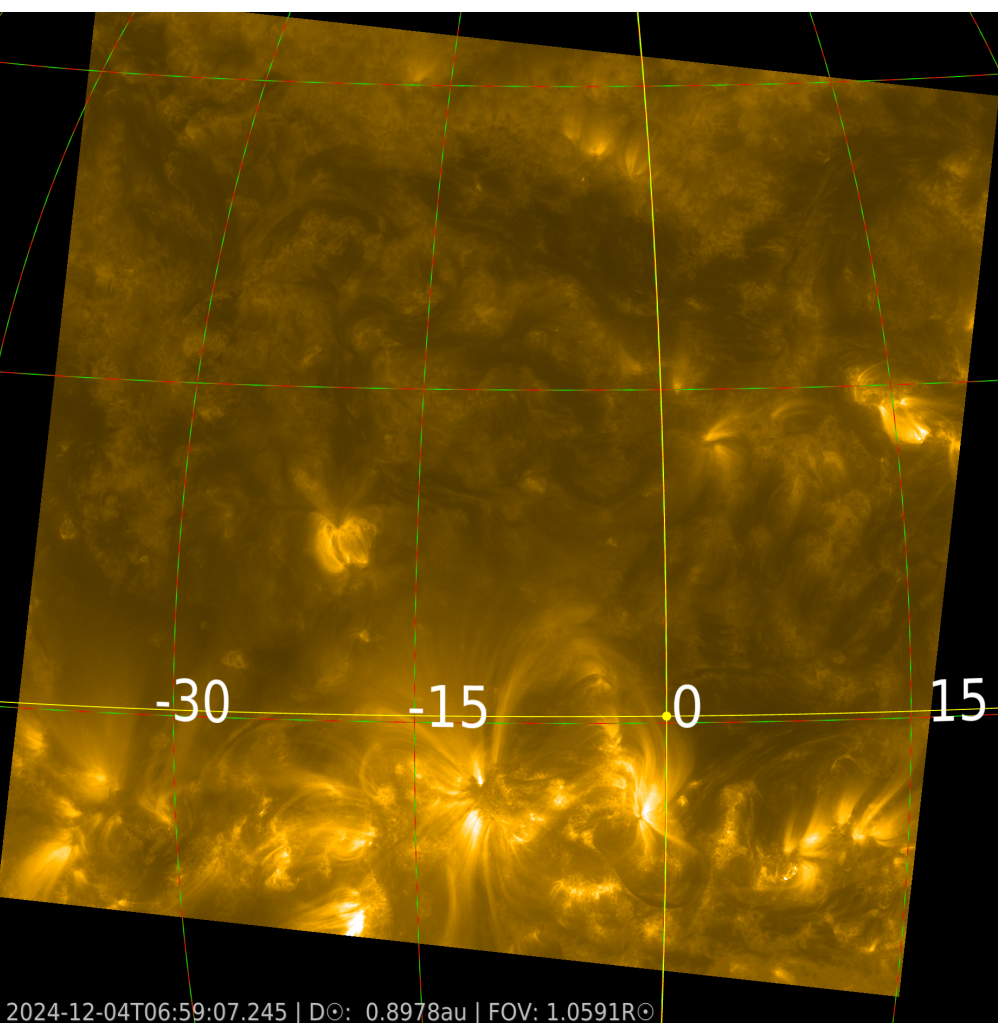
Contact: [david.Berghmans@sidc.be](mailto:david.Berghmans@sidc.be) (PI)



1. Dec 4 07:00-11:00

HRILYA: 10s cadence

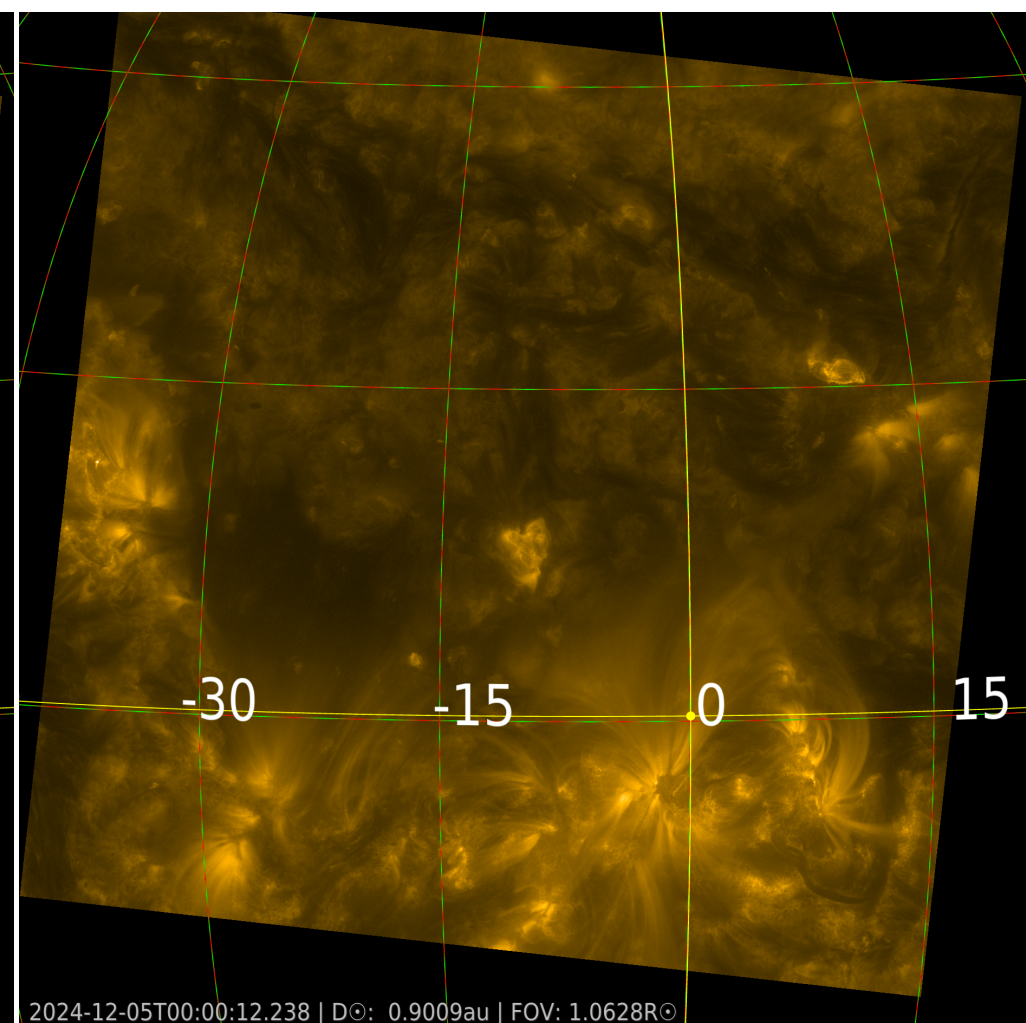
HRIEUV regular: 15s cad.  
short exp: 3s cad



2. Dec 5 00:00-04:00

HRILYA: 10s cadence

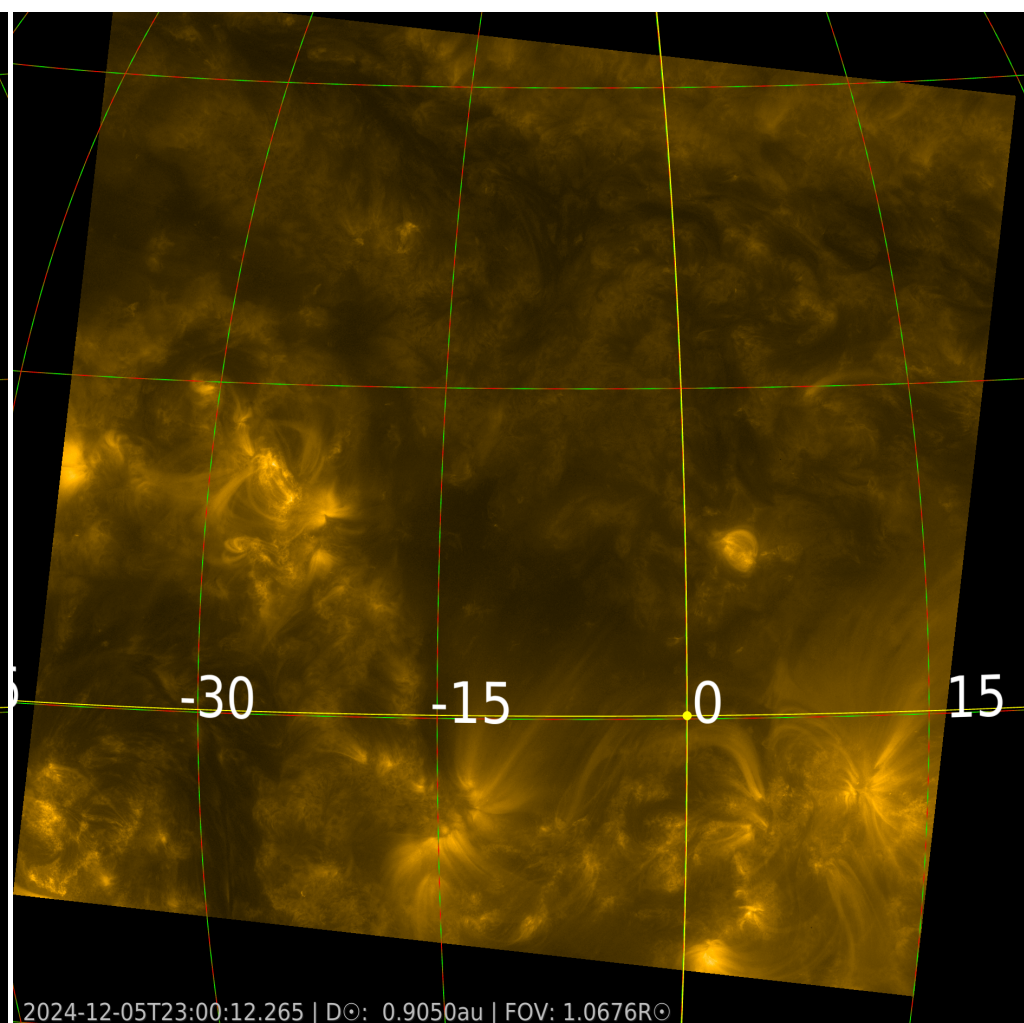
HRIEUV regular: 15s cad.  
short exp: 3s cad



3. Dec 5 23:00-03:00

HRILYA: 10s cadence

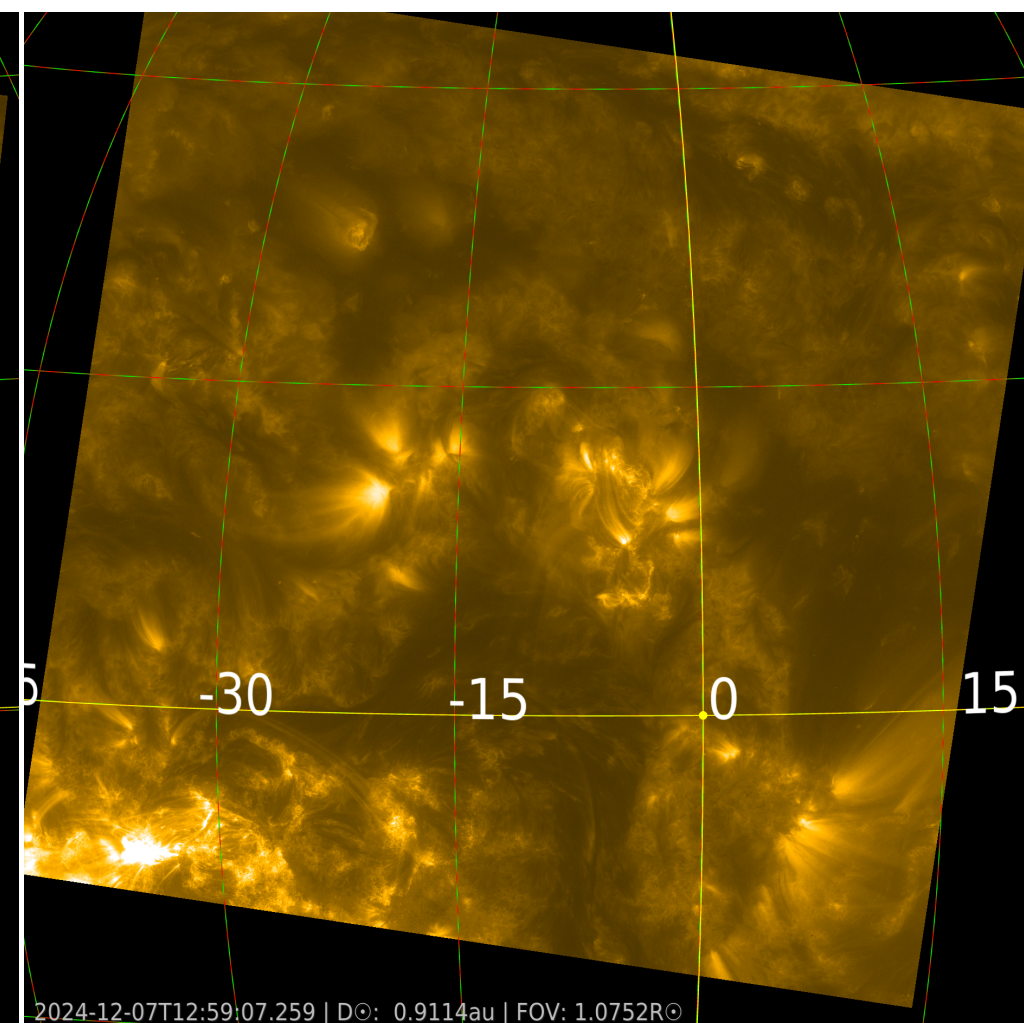
HRIEUV regular: 15s cad.  
short exp: 3s cad



4. Dec 7 13:00-17:00

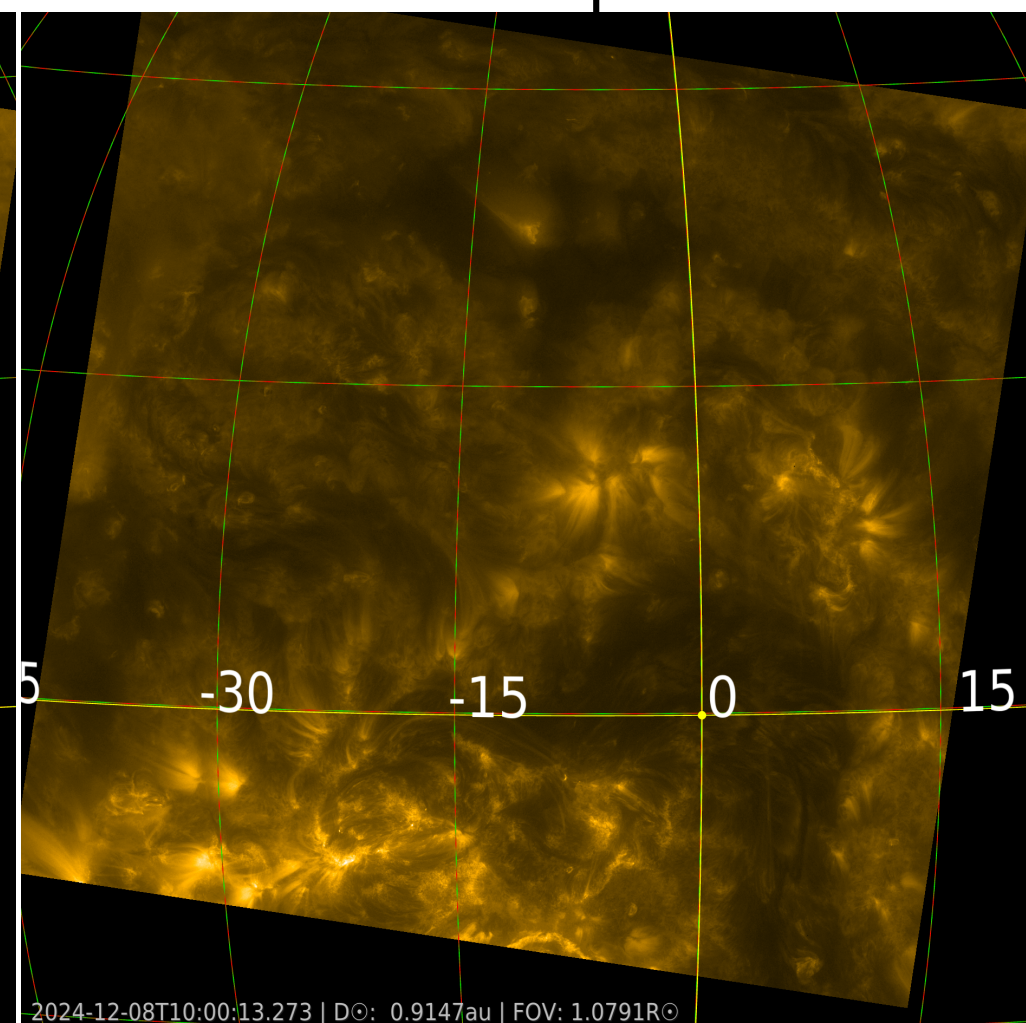
HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad



5. Dec 8 10:00-14:00

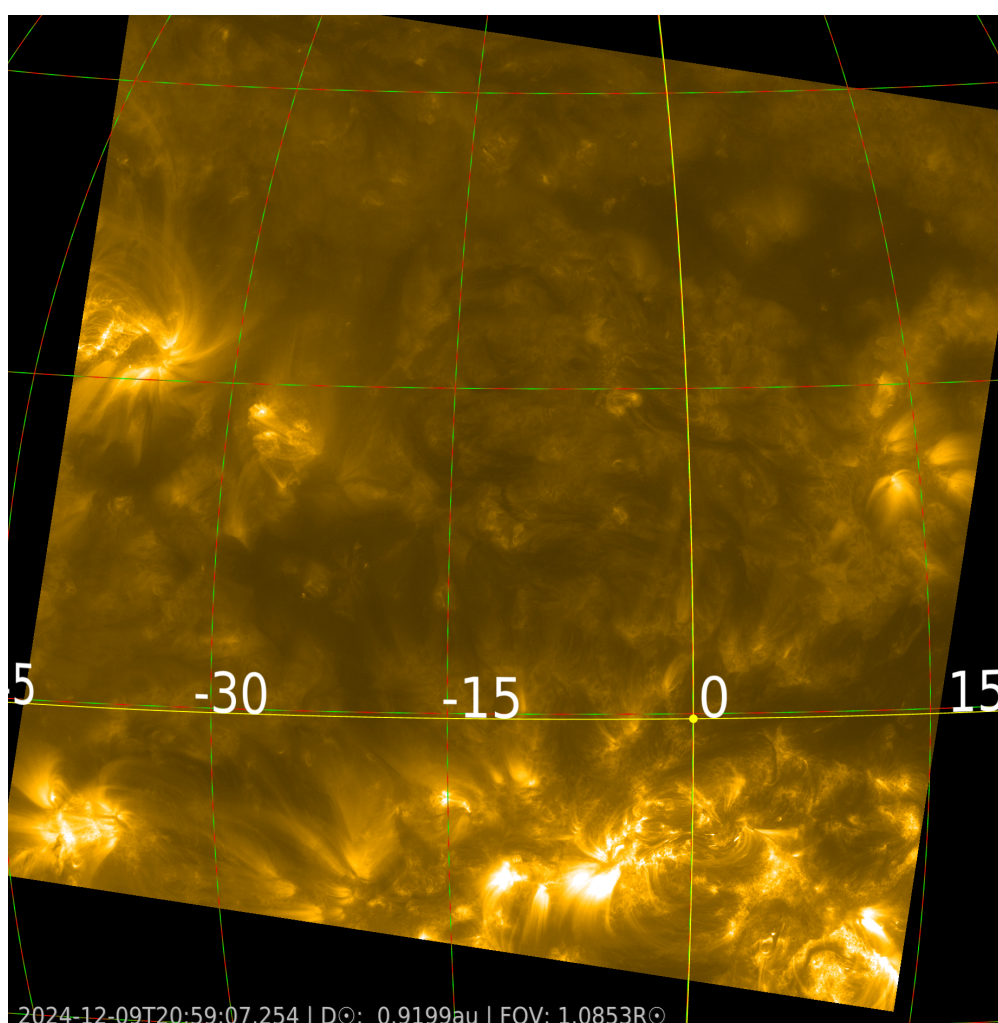
HRIEUV regular: 16s cad.  
short exp: 2s cad



6. Dec 9 21:00-01:00

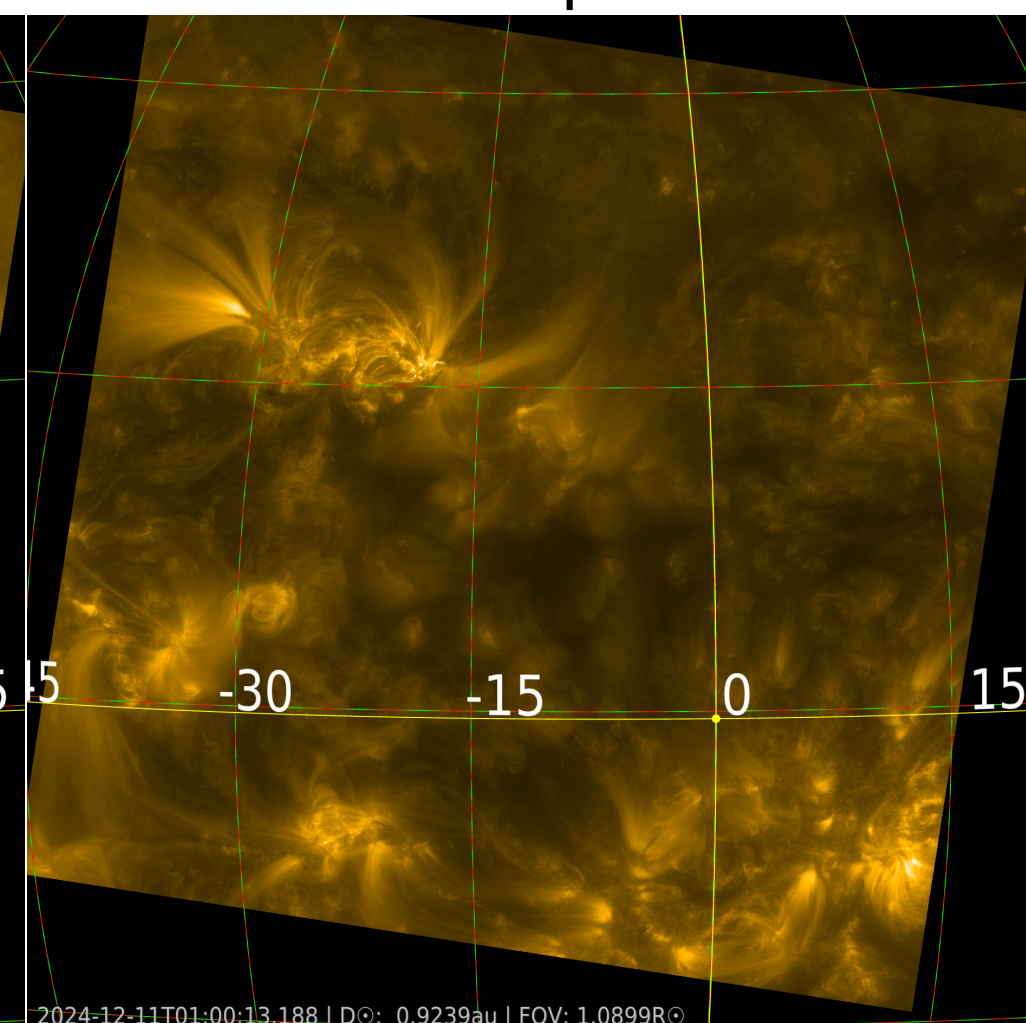
HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad



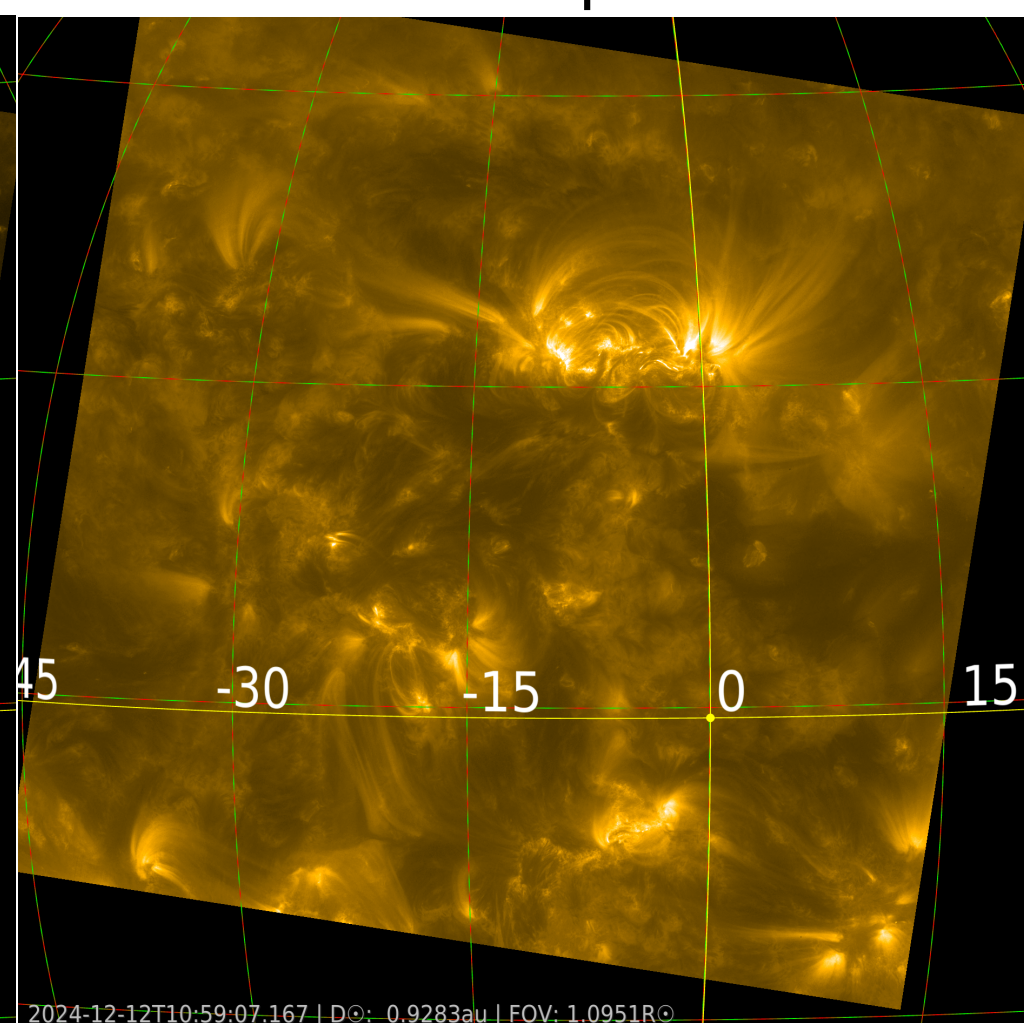
7. Dec 11 01:00-05:00

HRIEUV regular: 16s cad.  
short exp: 2s cad



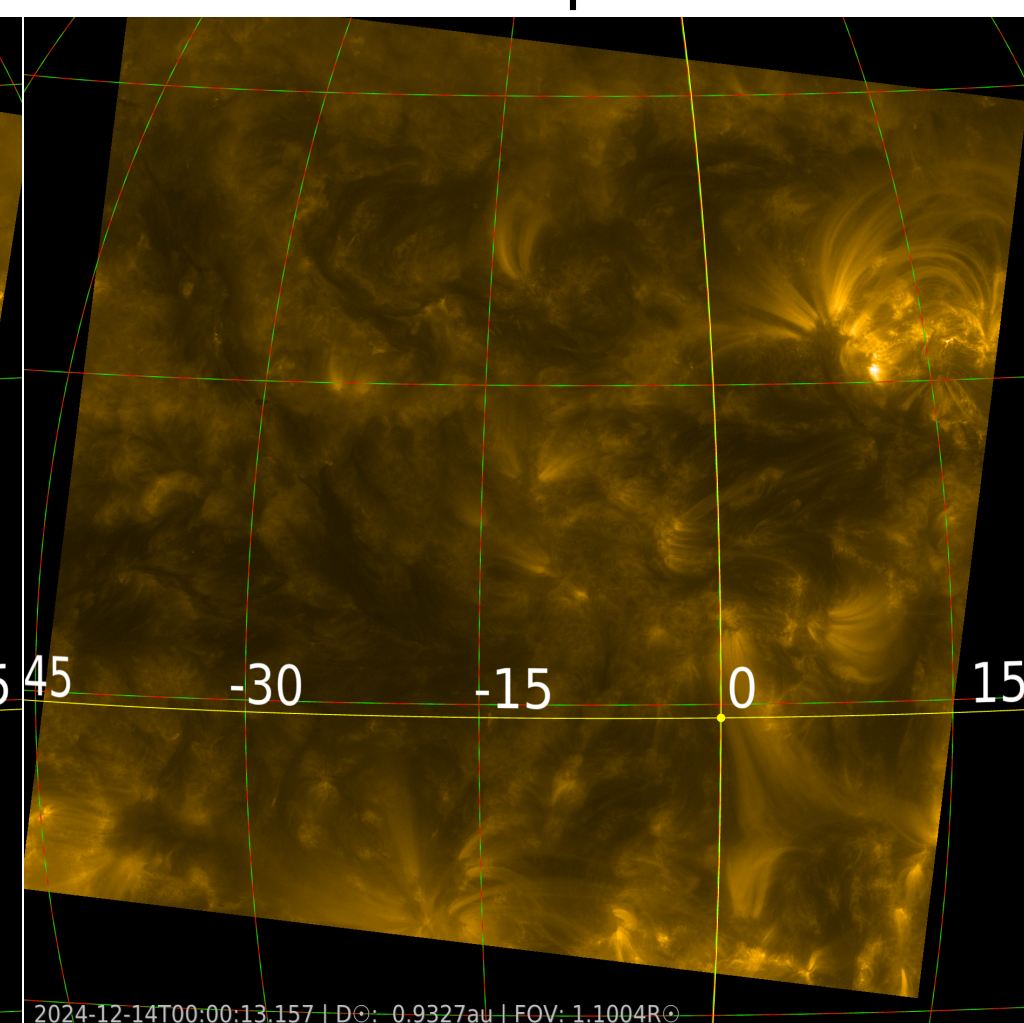
8. Dec 12 11:00-15:00

HRIEUV regular: 16s cad.  
short exp: 2s cad



9. Dec 14 00:00-04:00

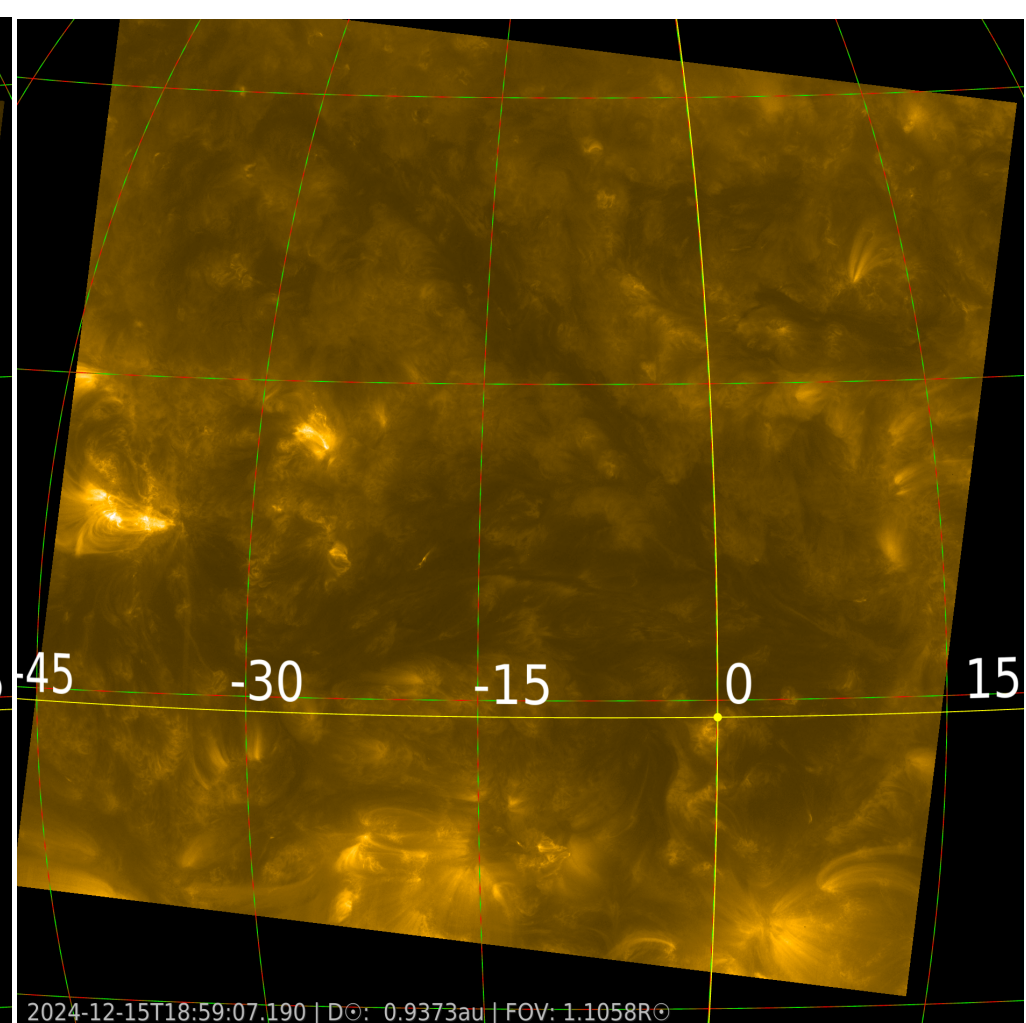
HRIEUV regular: 16s cad.  
short exp: 2s cad



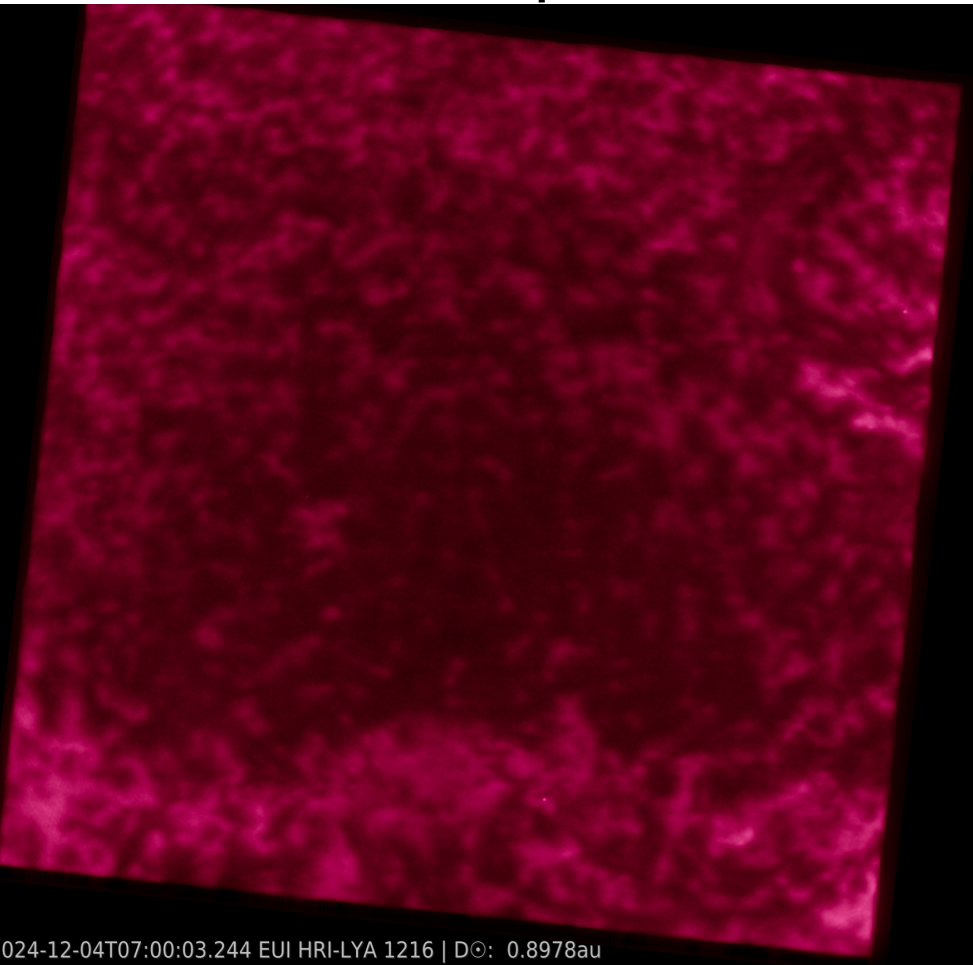
10. Dec 15 19:00-00:00

HRILYA: 10s cadence

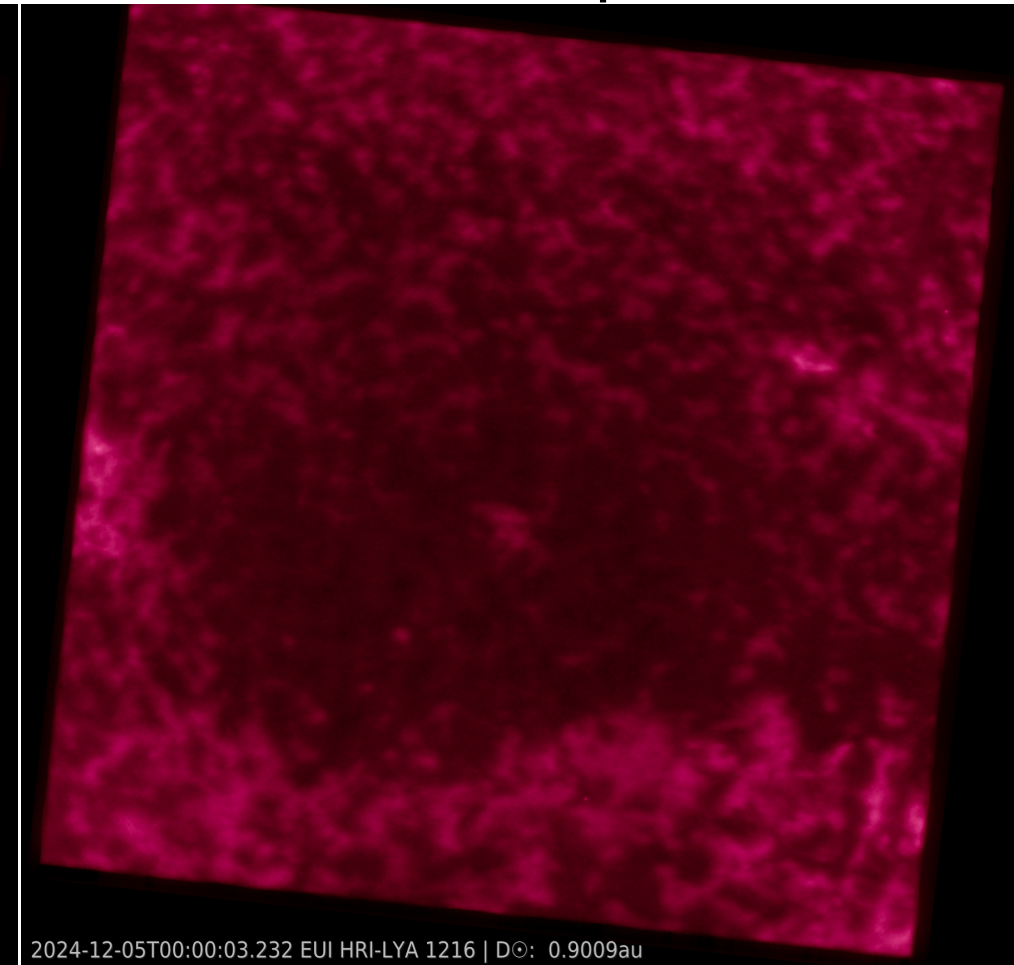
HRIEUV regular: 15s cad.  
short exp: 3s cad



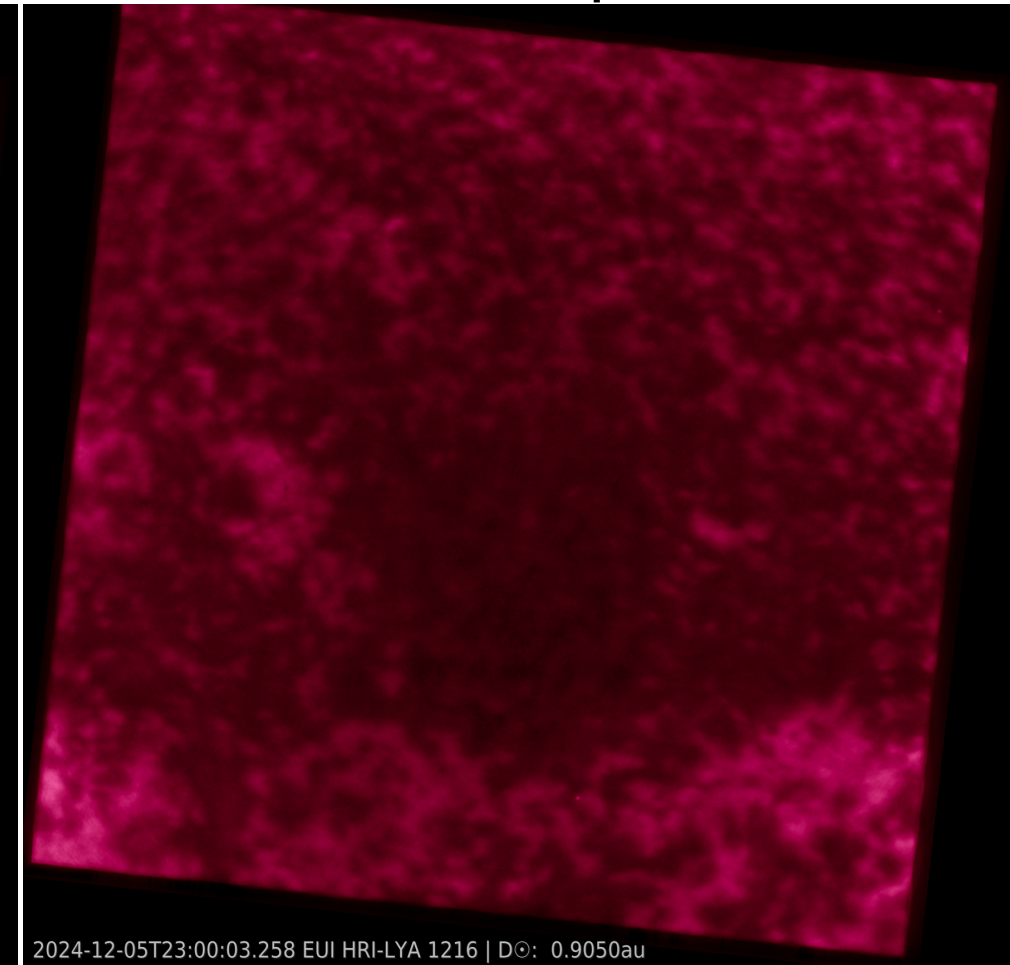
1. Dec 4 07:00-11:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



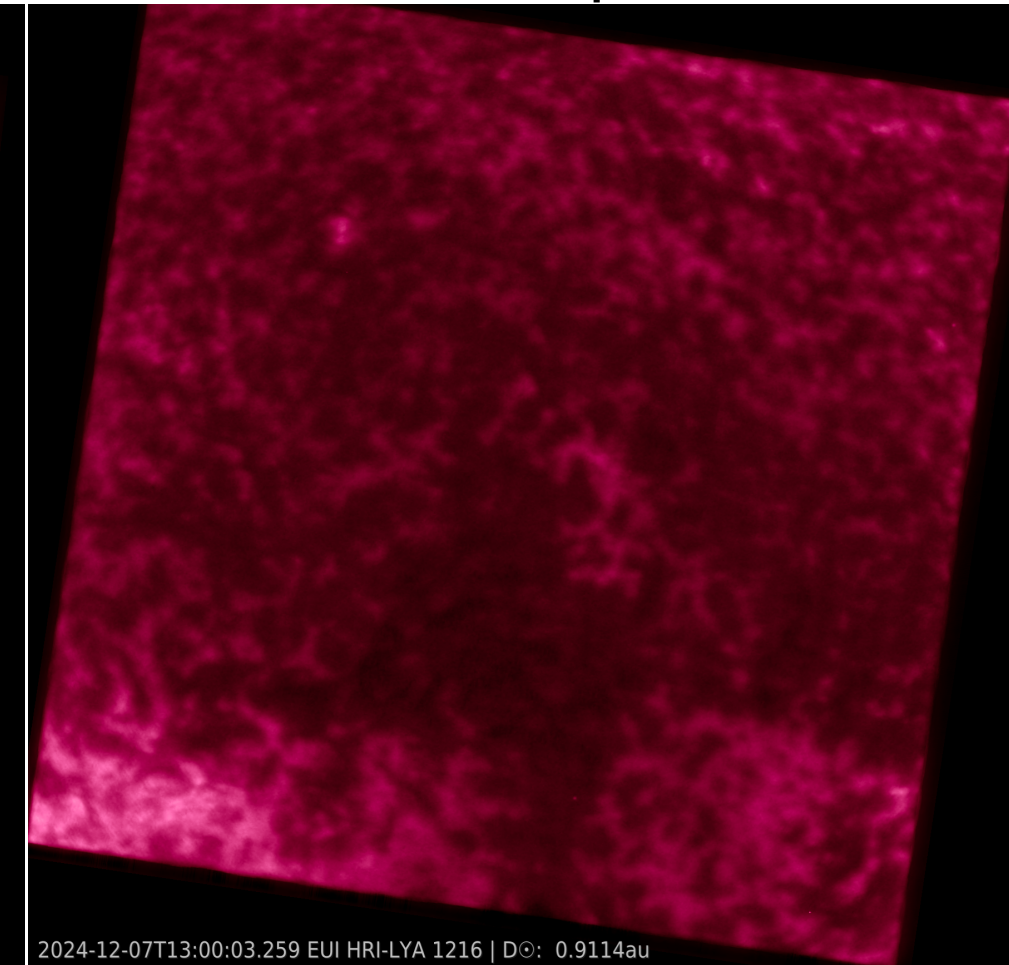
2. Dec 5 00:00-04:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



3. Dec 5 23:00-03:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad

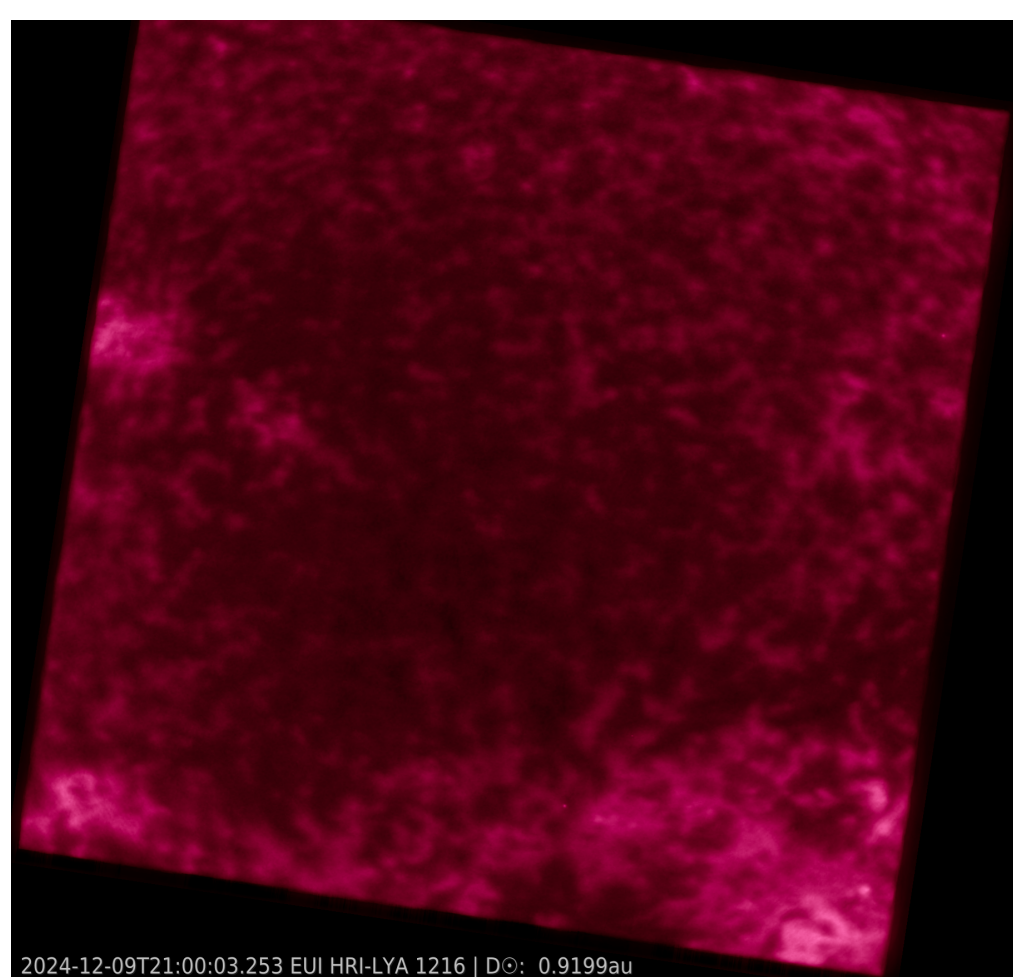


4. Dec 7 13:00-17:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



5. Dec 8 10:00-14:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad

6. Dec 9 21:00-01:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad

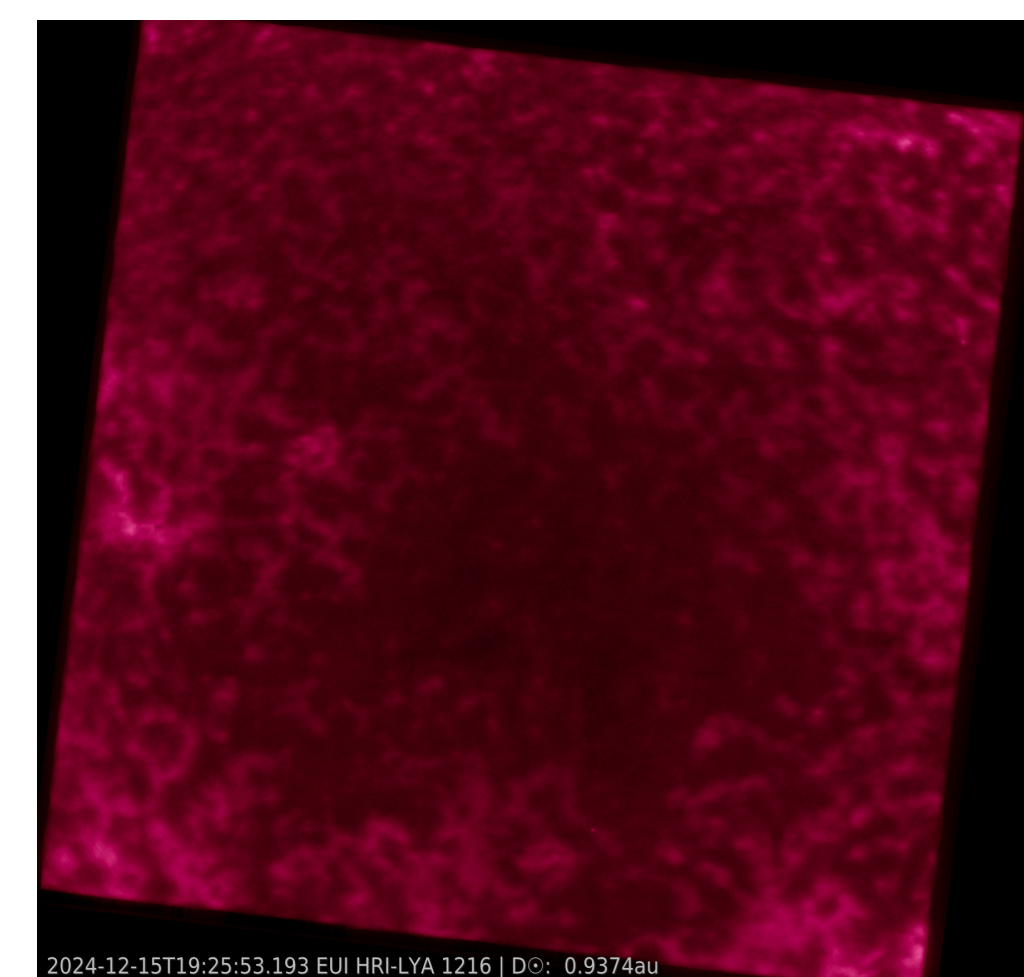


7. Dec 11 01:00-05:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad

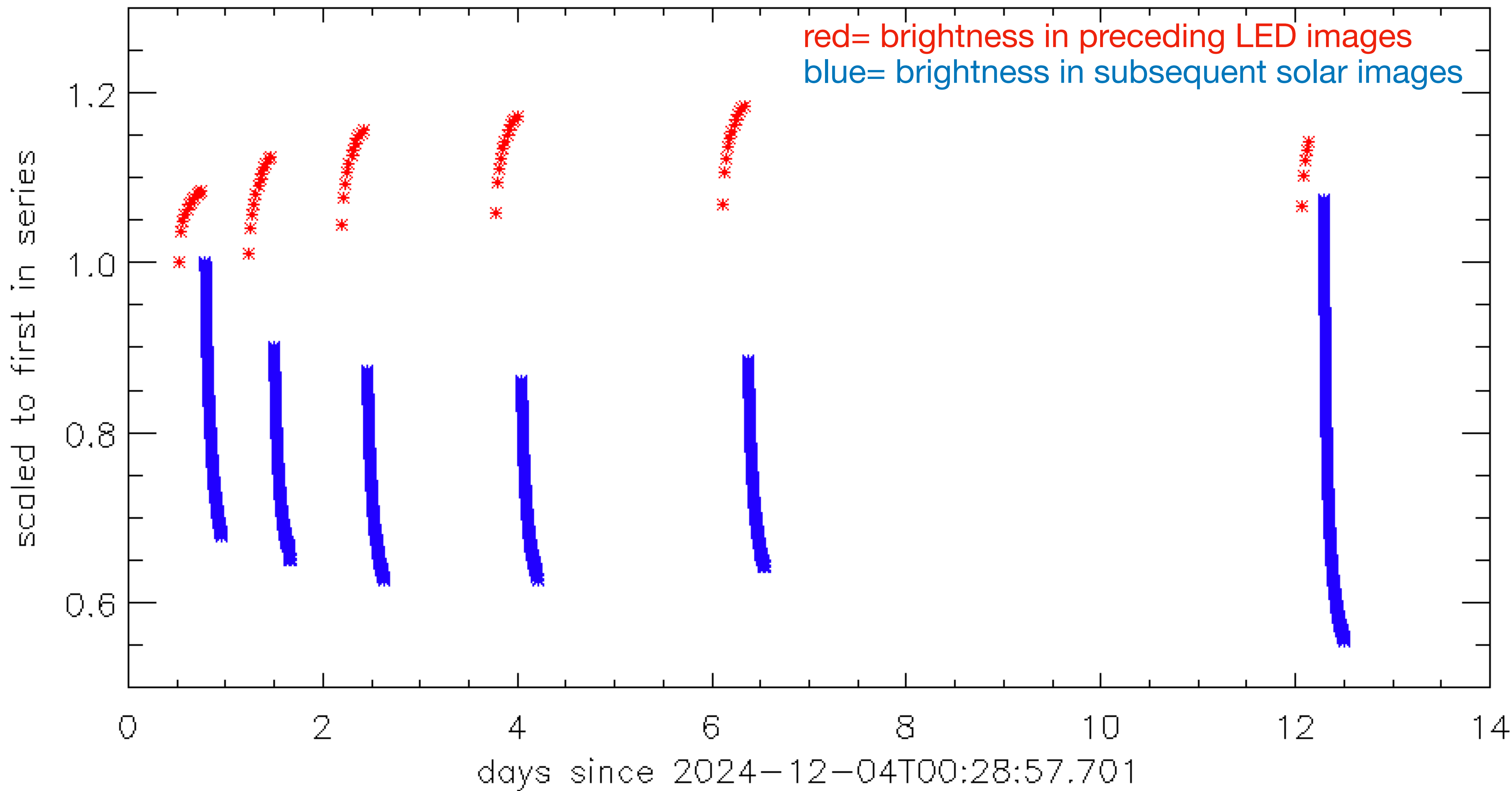
8. Dec 12 11:00-15:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad

9. Dec 14 00:00-04:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad

10. Dec 15 19:00-00:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



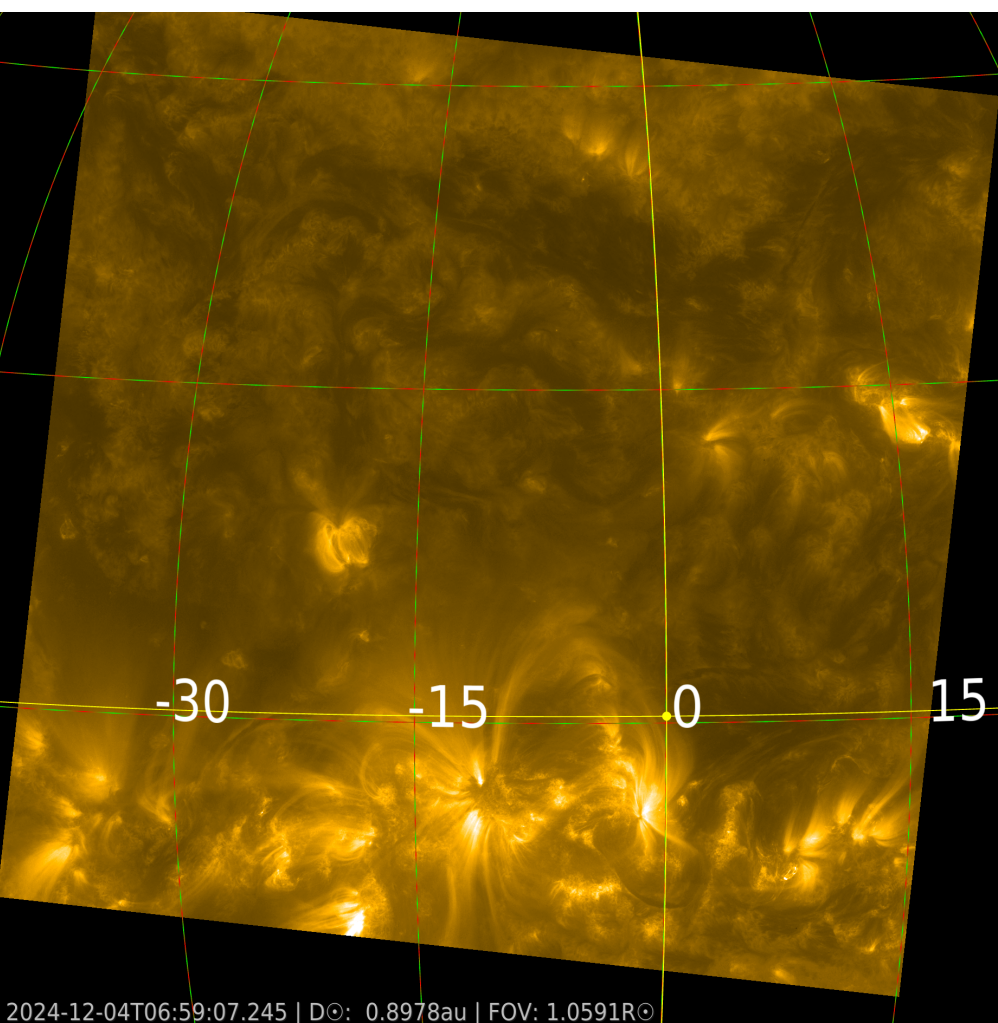
# summed brightness in LYA images



1. Dec 4 07:00-11:00

HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad

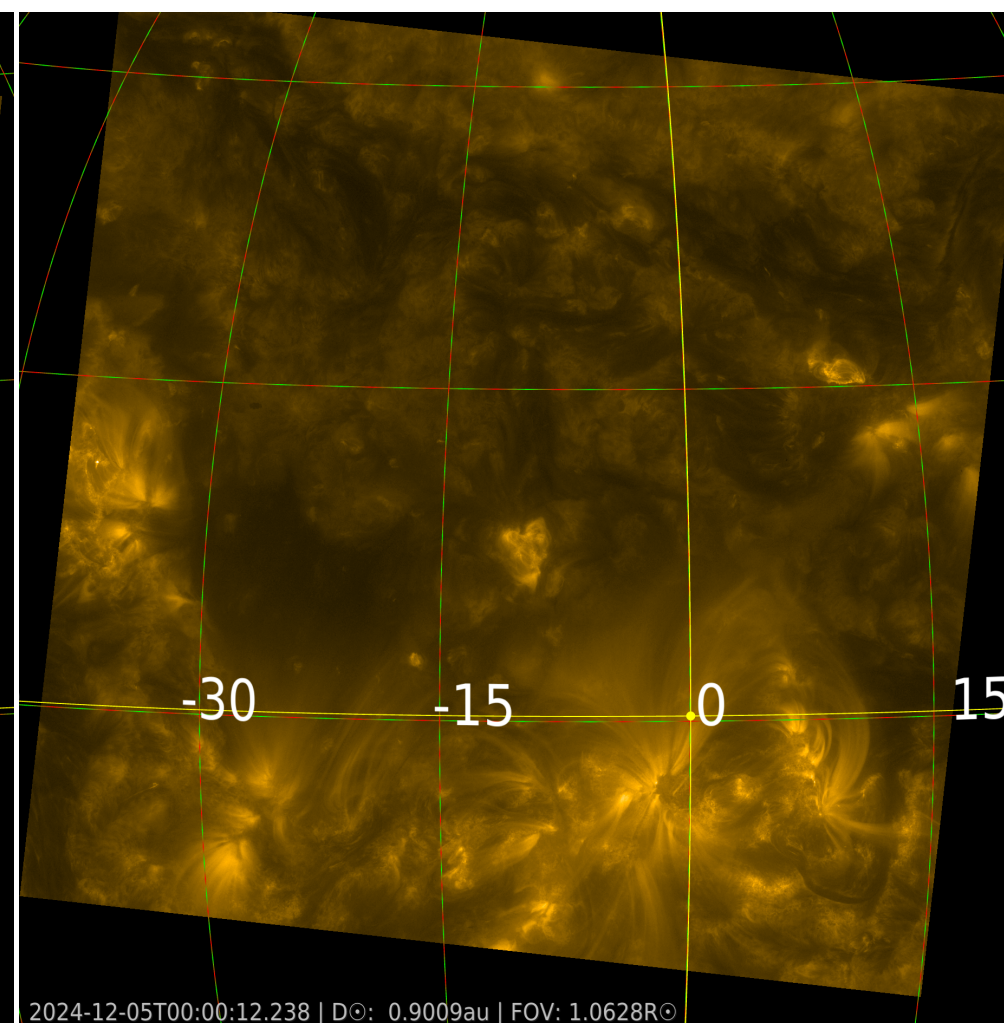


2024-12-04T06:59:07.245 | D☉: 0.8978au | FOV: 1.0591R☉

2. Dec 5 00:00-04:00

HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad

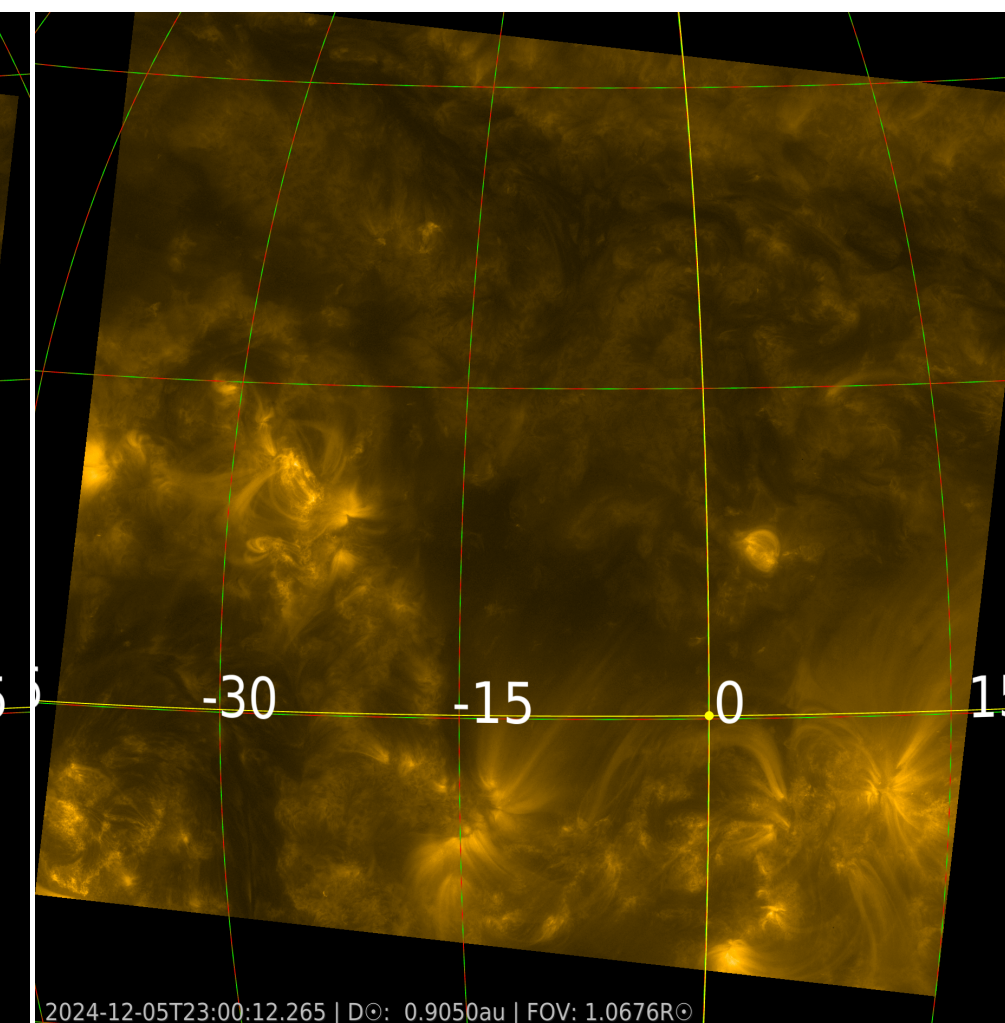


2024-12-05T00:00:12.238 | D☉: 0.9009au | FOV: 1.0628R☉

3. Dec 5 23:00-03:00

HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad

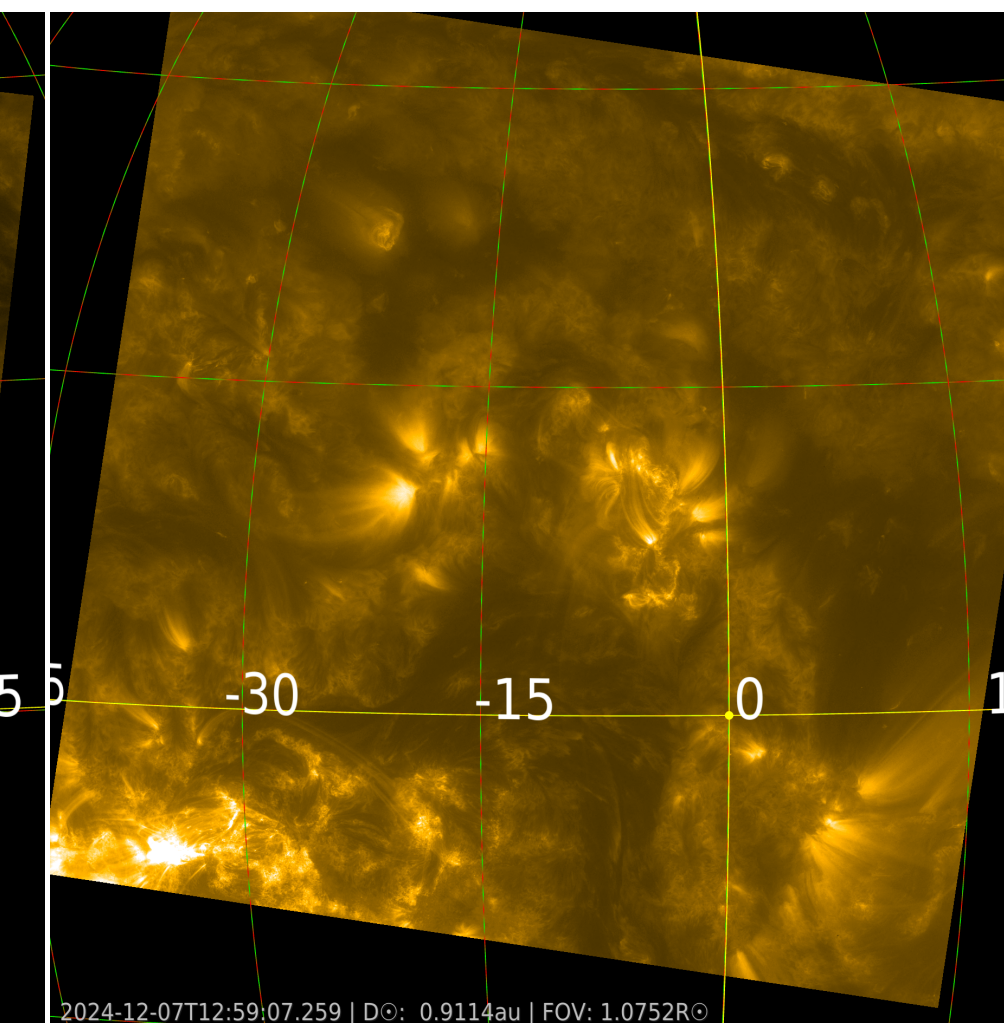


2024-12-05T23:00:12.265 | D☉: 0.9050au | FOV: 1.0676R☉

4. Dec 7 13:00-17:00

HRILYA: 10s cadence

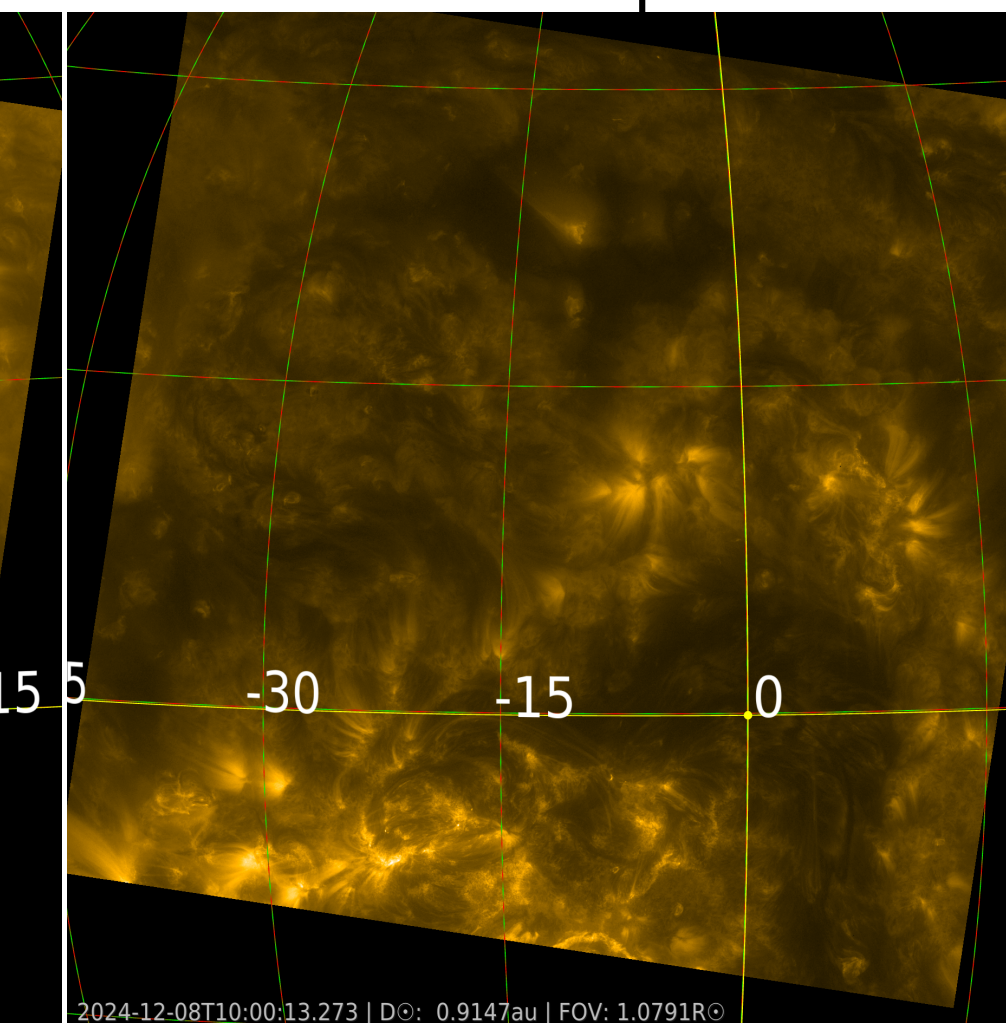
HRIEUV regular: 15s cad.  
short exp: 3s cad



2024-12-07T12:59:07.259 | D☉: 0.9114au | FOV: 1.0752R☉

5. Dec 8 10:00-14:00

HRIEUV regular: 16s cad.  
short exp: 2s cad

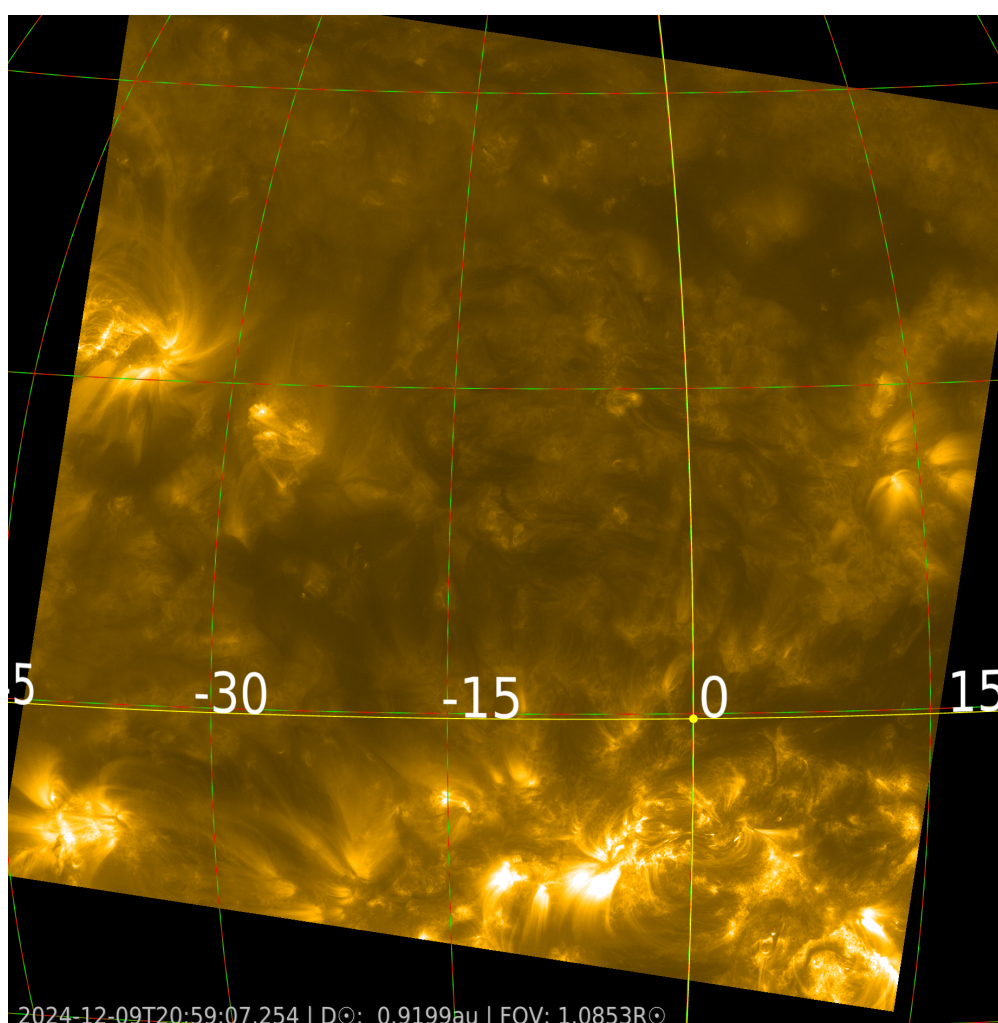


2024-12-08T10:00:13.273 | D☉: 0.9147au | FOV: 1.0791R☉

6. Dec 9 21:00-01:00

HRILYA: 10s cadence

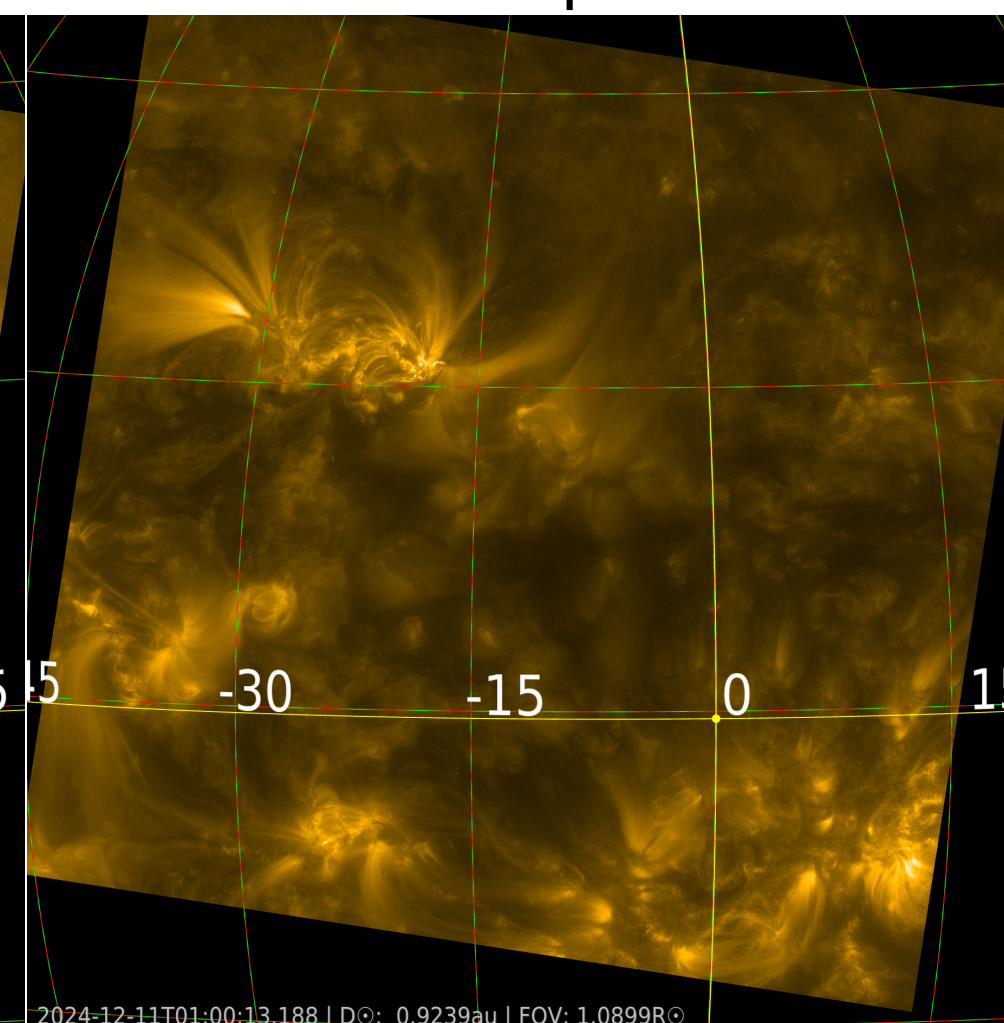
HRIEUV regular: 15s cad.  
short exp: 3s cad



2024-12-09T20:59:07.254 | D☉: 0.9199au | FOV: 1.0853R☉

7. Dec 11 01:00-05:00

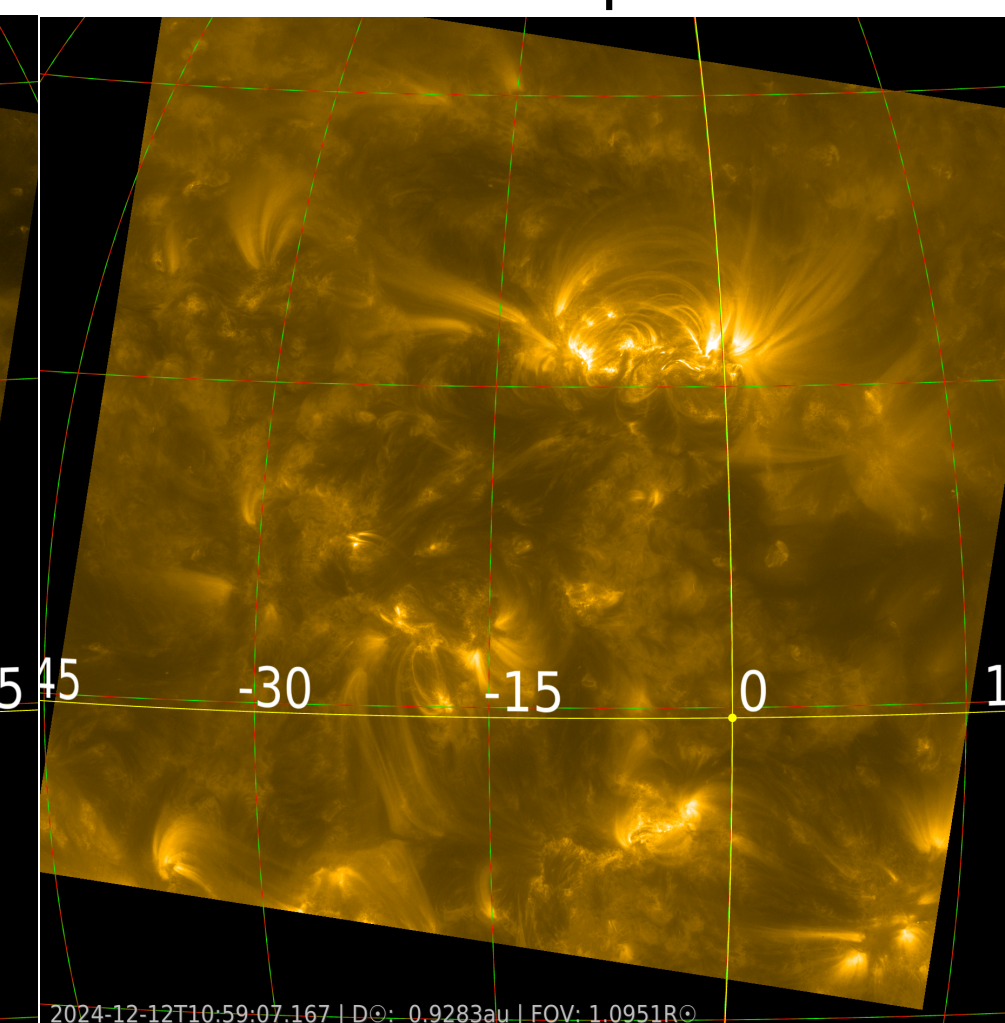
HRIEUV regular: 16s cad.  
short exp: 2s cad



2024-12-11T01:00:13.188 | D☉: 0.9239au | FOV: 1.0899R☉

8. Dec 12 11:00-15:00

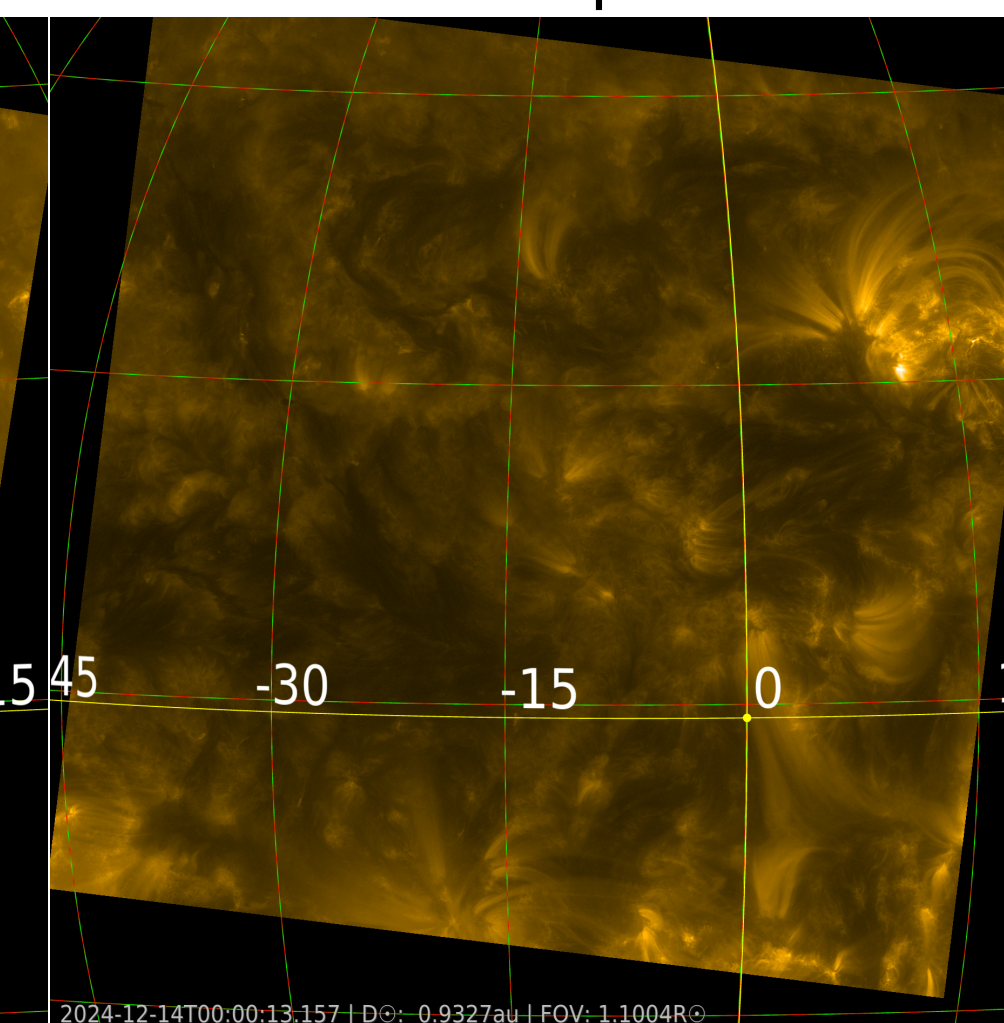
HRIEUV regular: 16s cad.  
short exp: 2s cad



2024-12-12T10:59:07.167 | D☉: 0.9283au | FOV: 1.0951R☉

9. Dec 14 00:00-04:00

HRIEUV regular: 16s cad.  
short exp: 2s cad

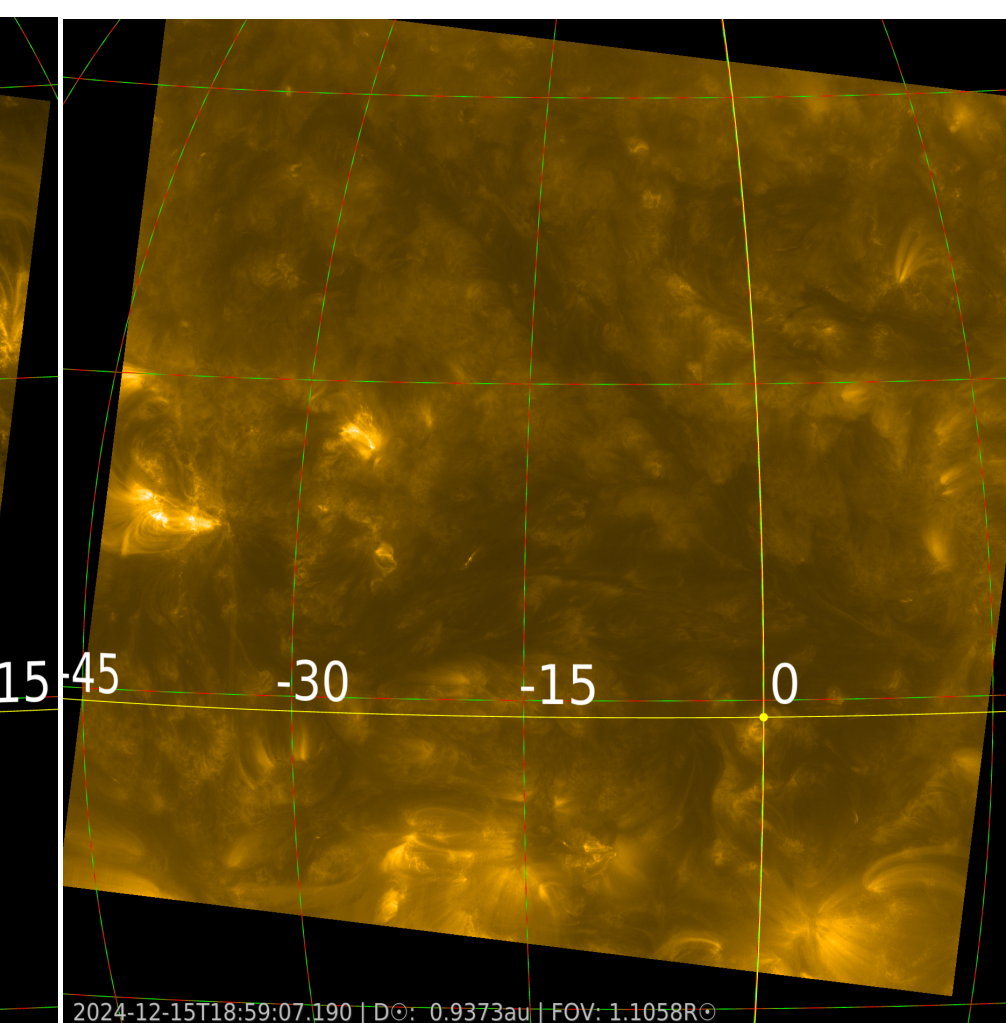


2024-12-14T00:00:13.157 | D☉: 0.9327au | FOV: 1.1004R☉

10. Dec 15 19:00-00:00

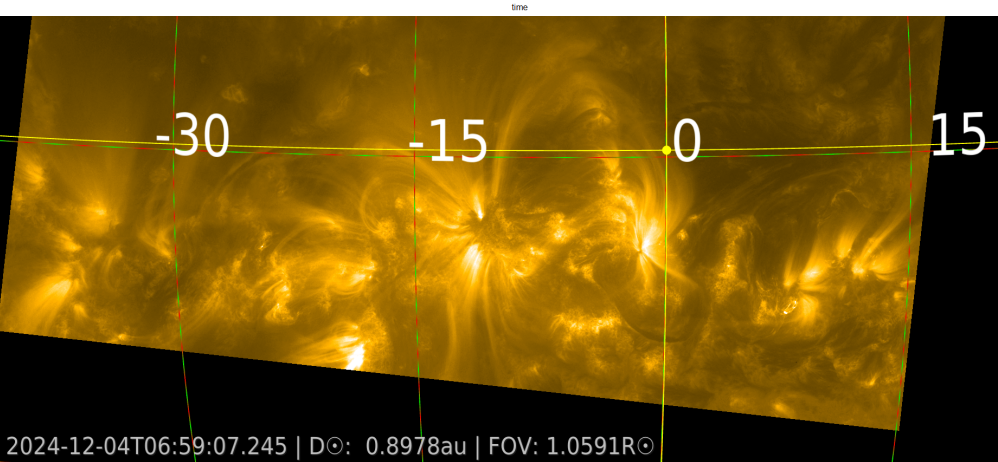
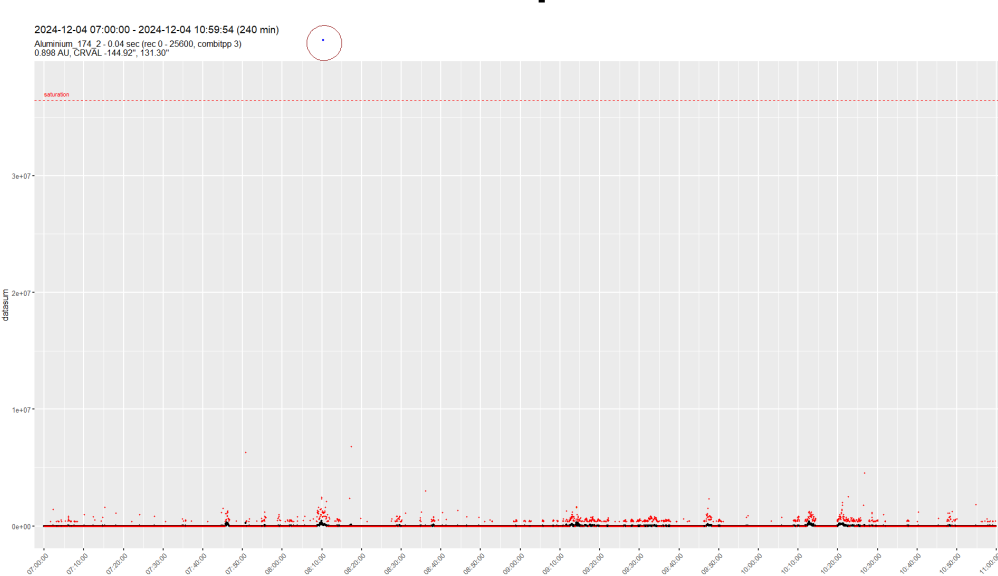
HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad

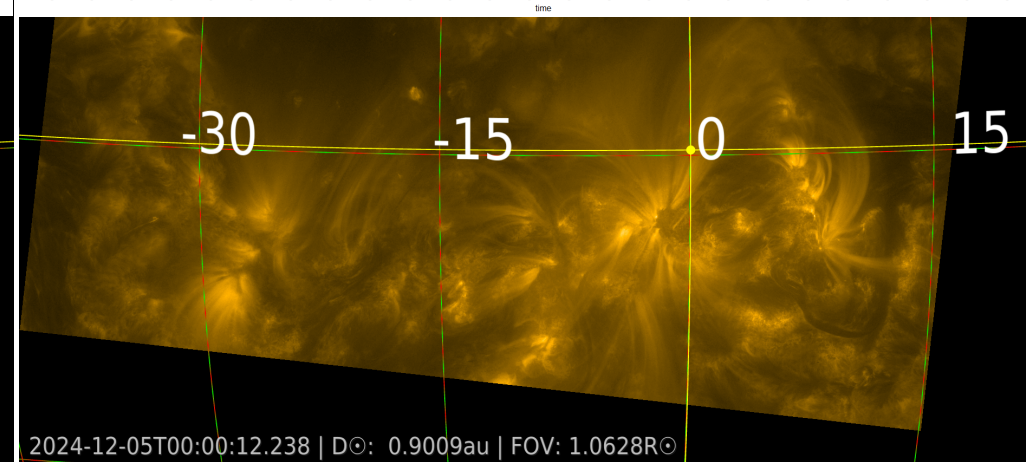
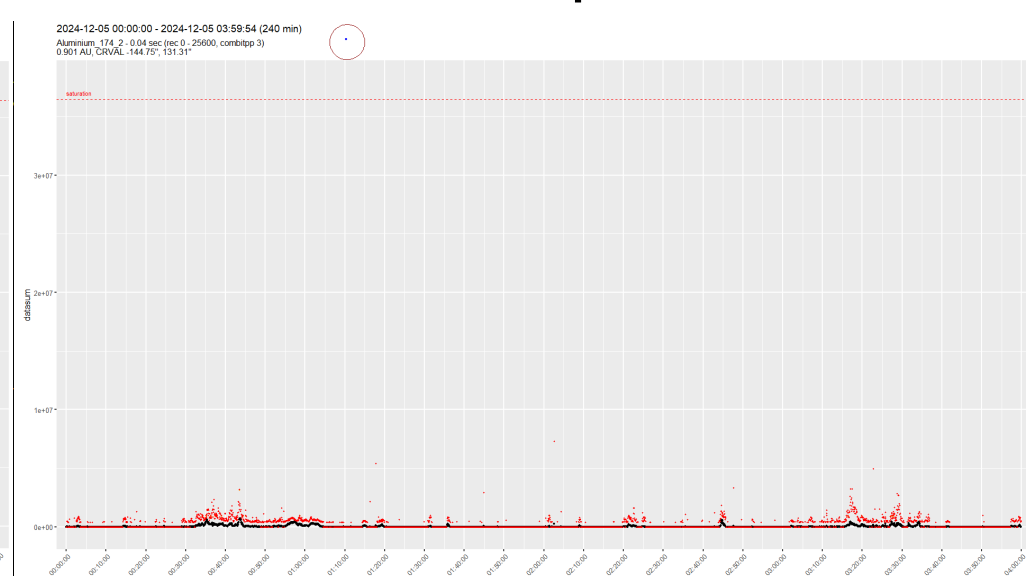


2024-12-15T18:59:07.190 | D☉: 0.9373au | FOV: 1.1058R☉

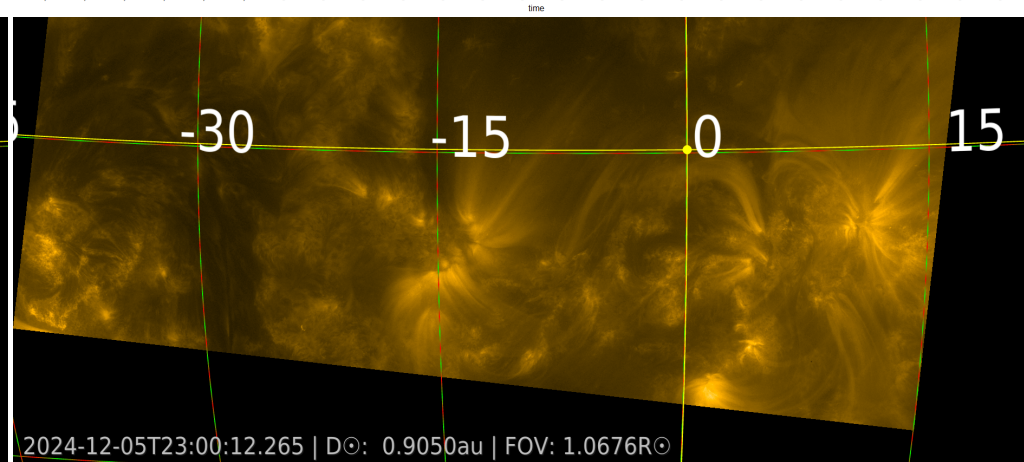
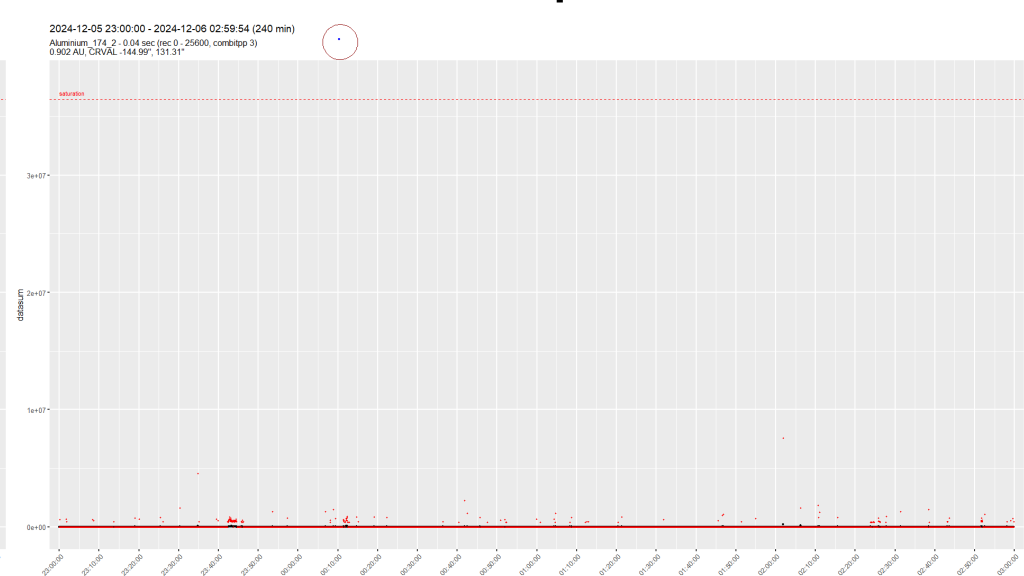
1. Dec 4 07:00-11:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



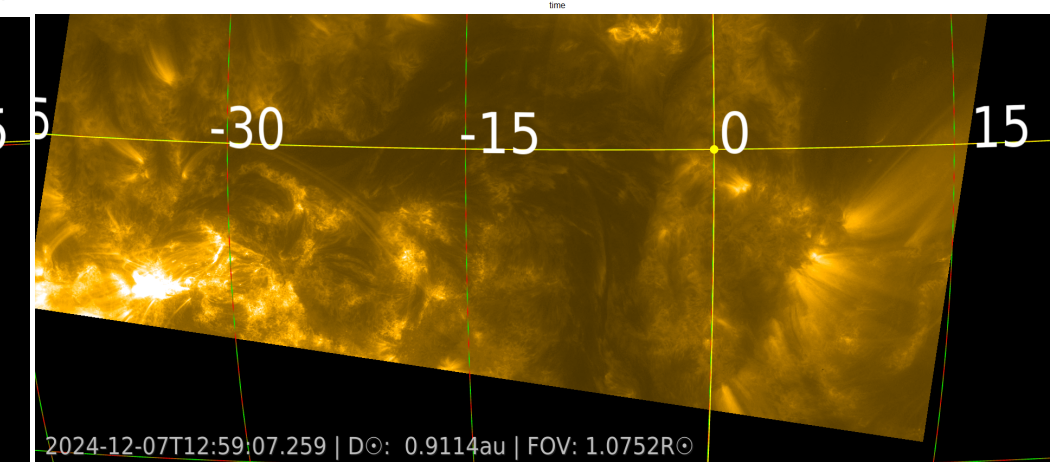
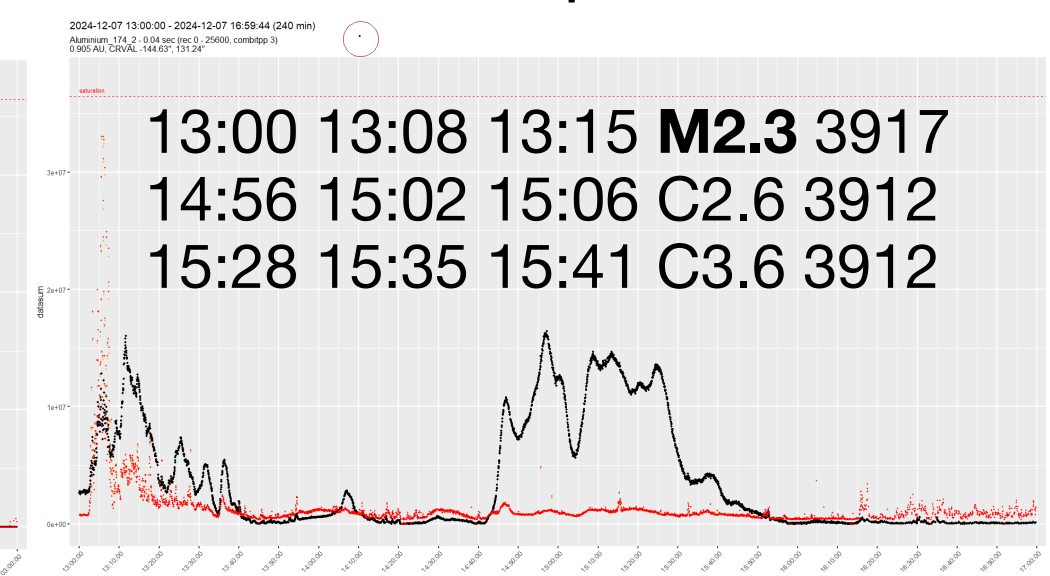
2. Dec 5 00:00-04:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



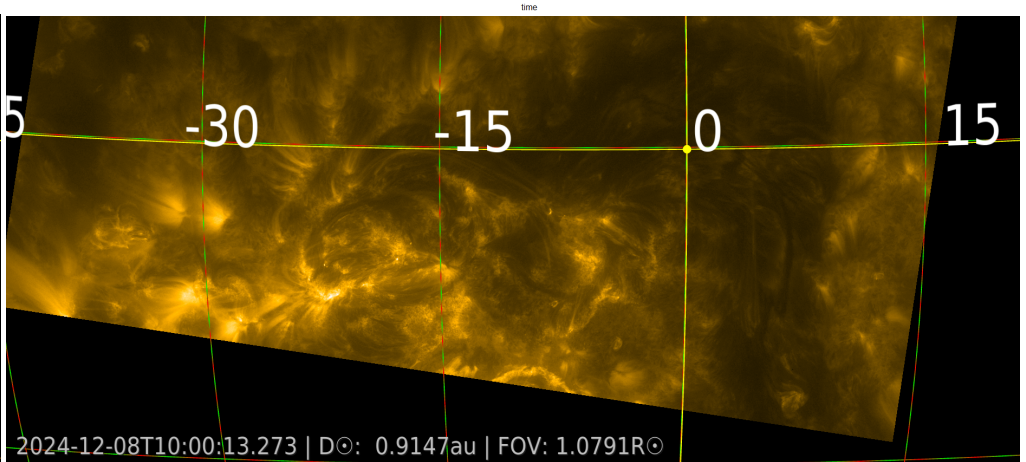
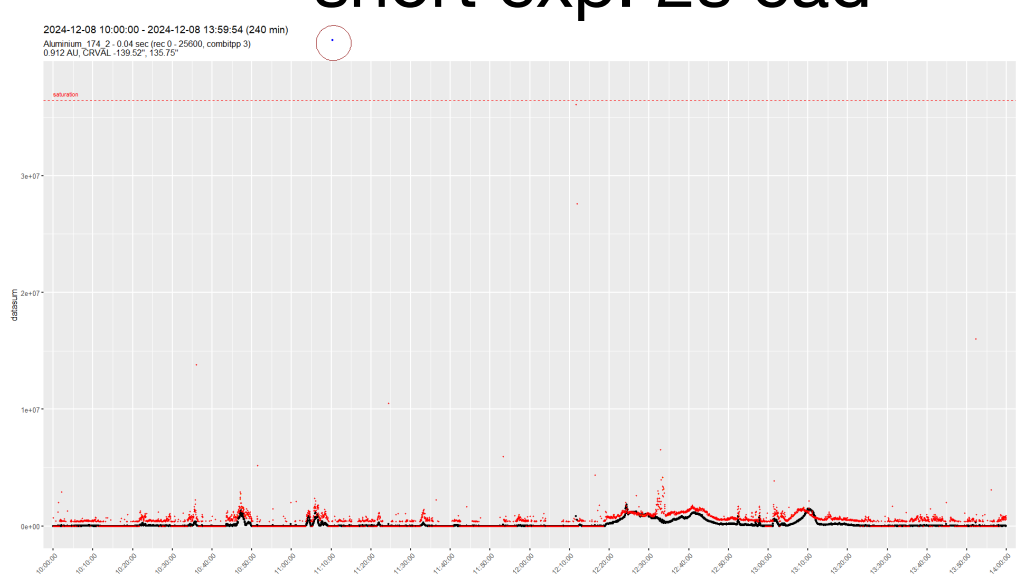
3. Dec 5 23:00-03:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



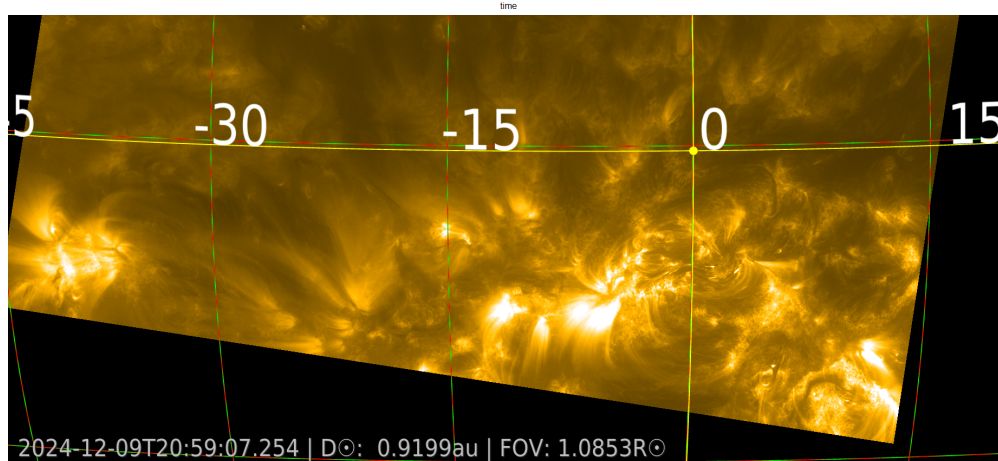
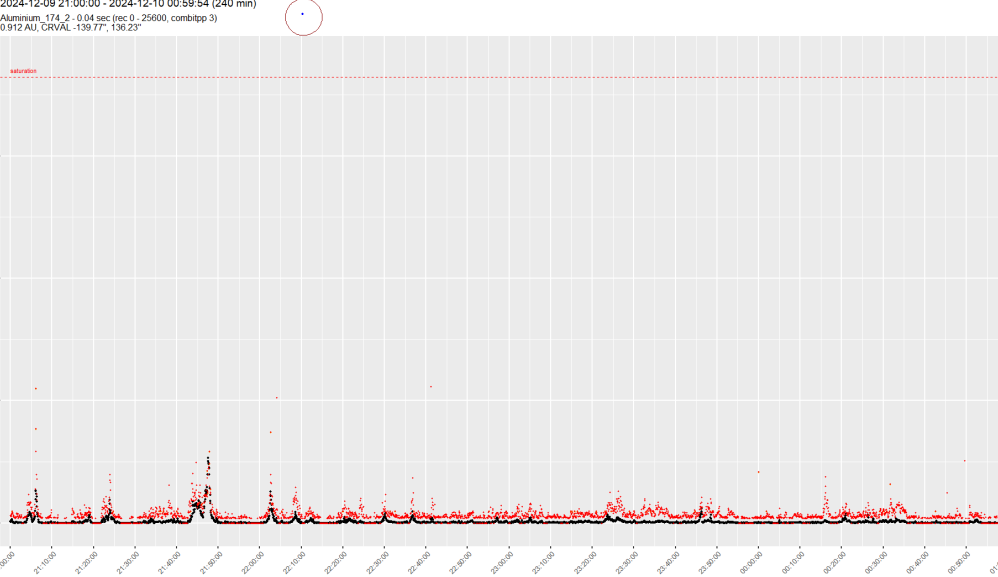
4. Dec 7 13:00-17:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



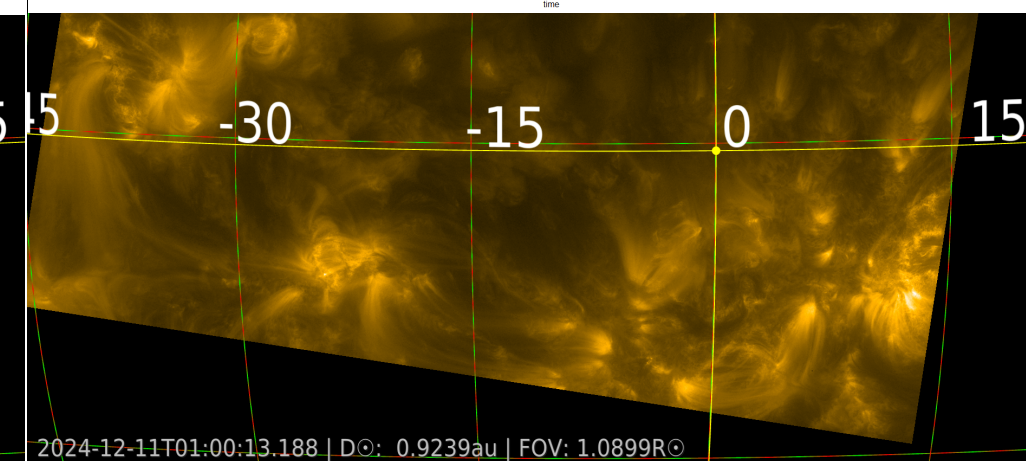
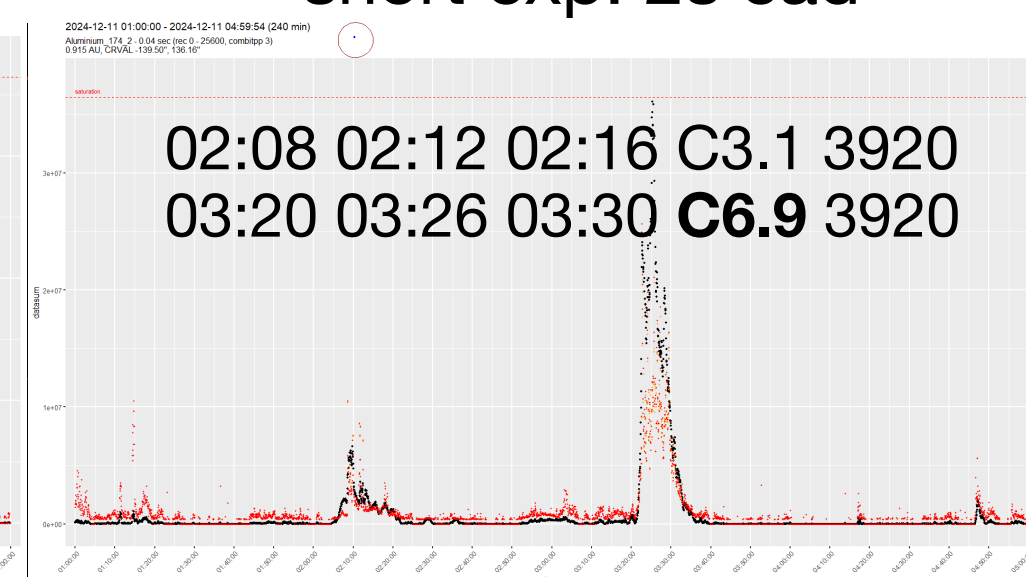
5. Dec 8 10:00-14:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad



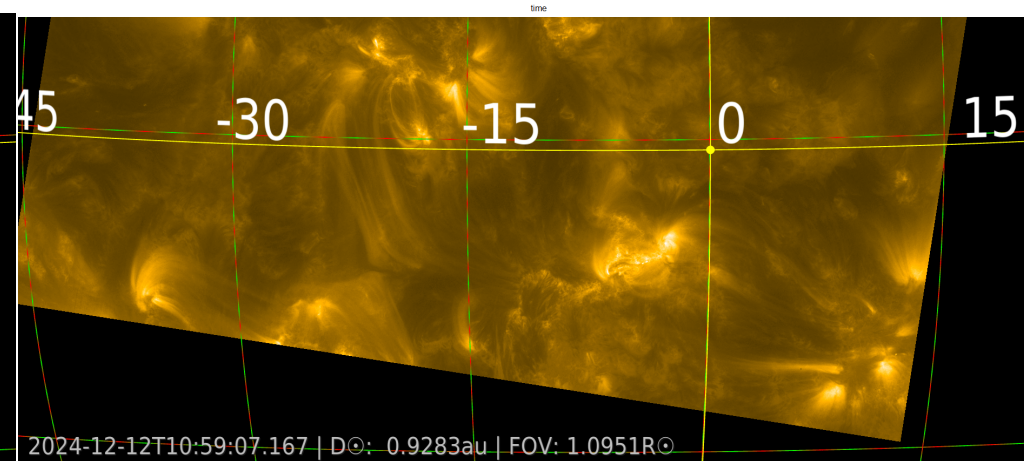
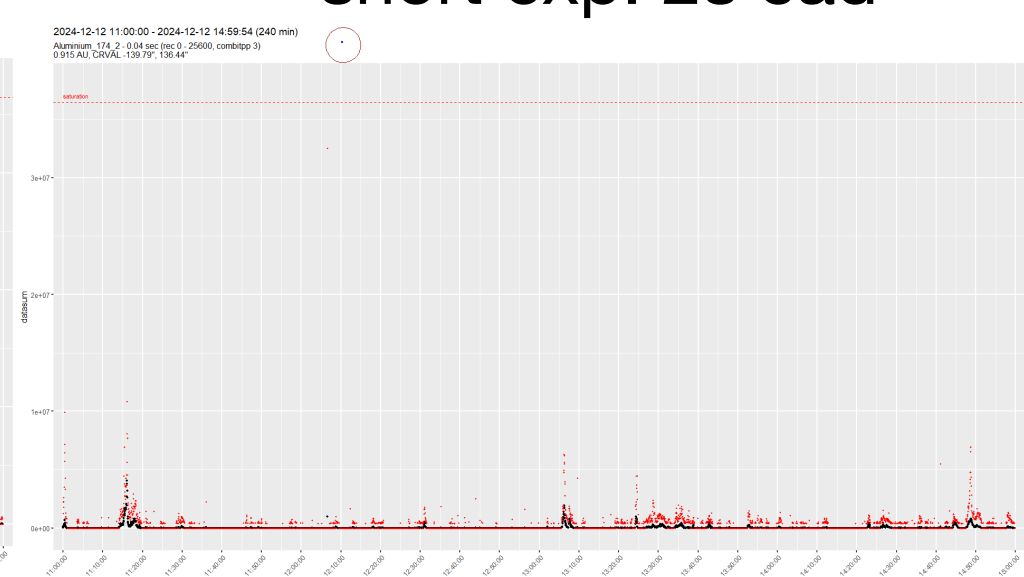
6. Dec 9 21:00-01:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



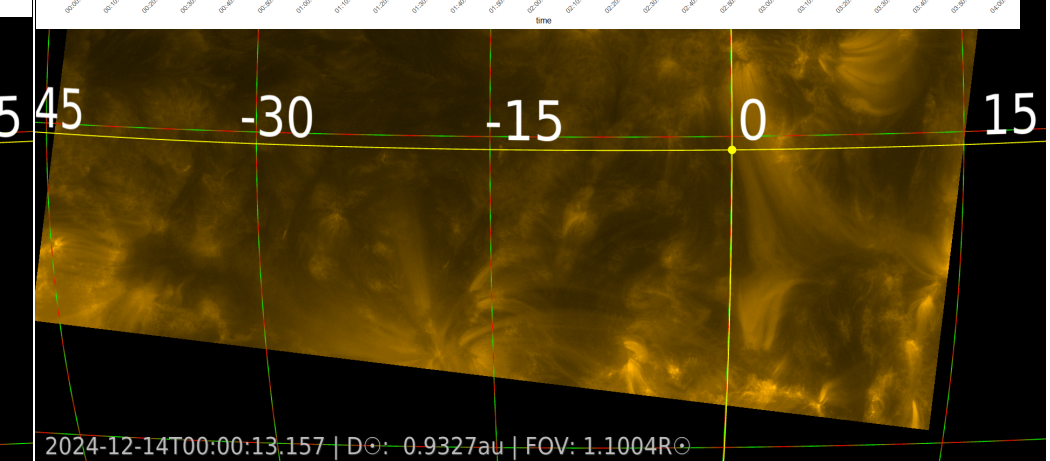
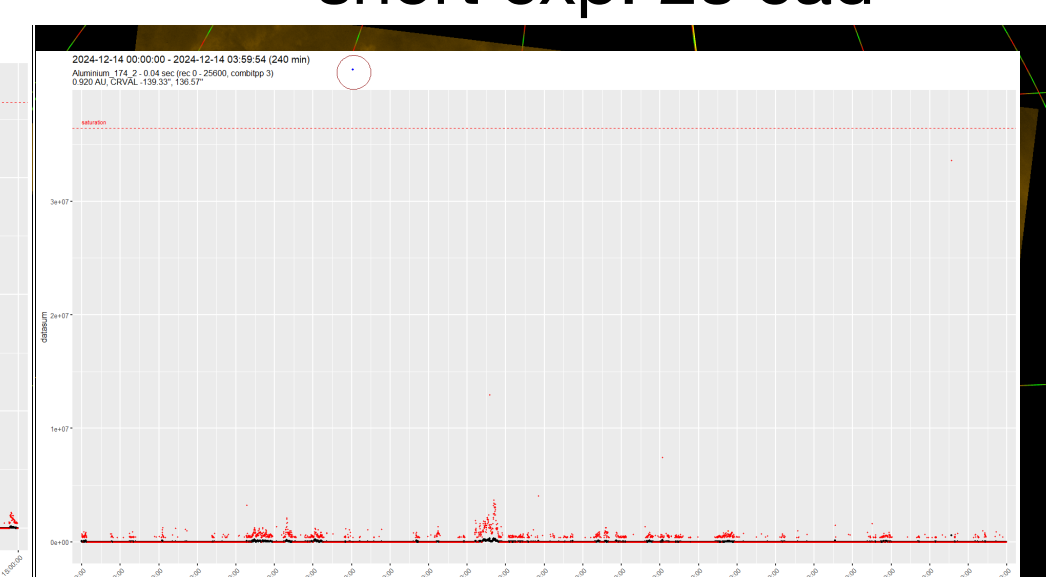
7. Dec 11 01:00-05:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad



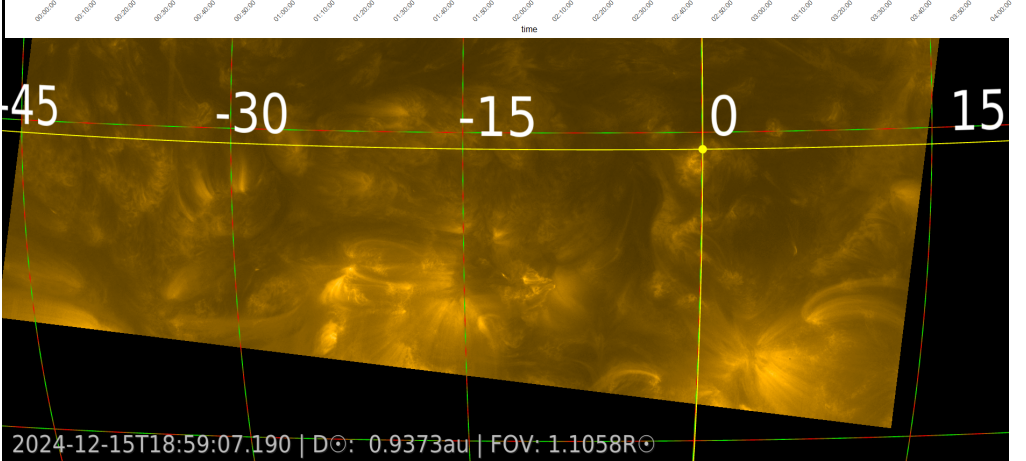
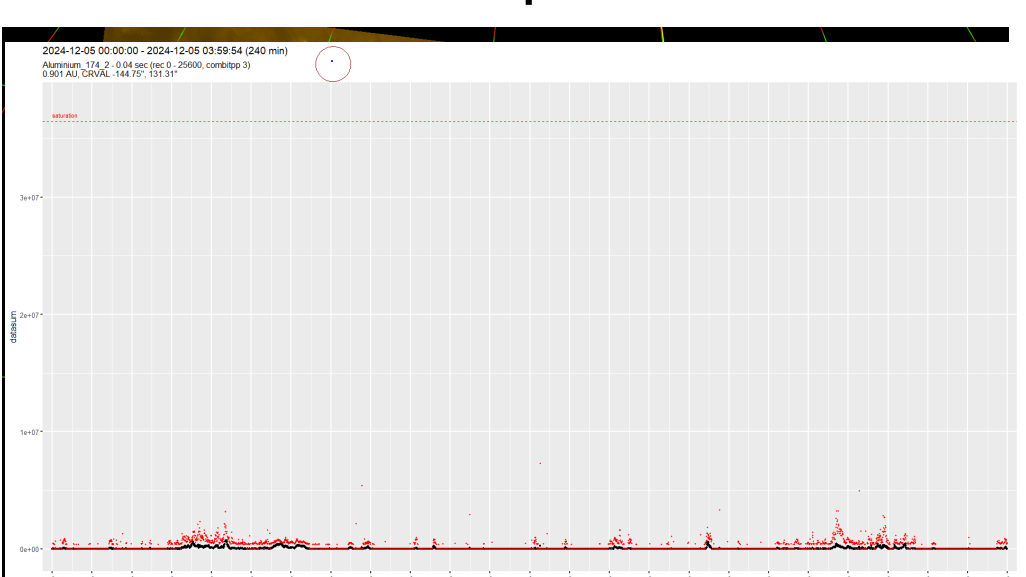
8. Dec 12 11:00-15:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad



9. Dec 14 00:00-04:00  
HRIEUV regular: 16s cad.  
short exp: 2s cad



10. Dec 15 19:00-00:00  
HRILYA: 10s cadence  
HRIEUV regular: 15s cad.  
short exp: 3s cad



4. Dec 7 13:00-17:00

HRILYA: 10s cadence

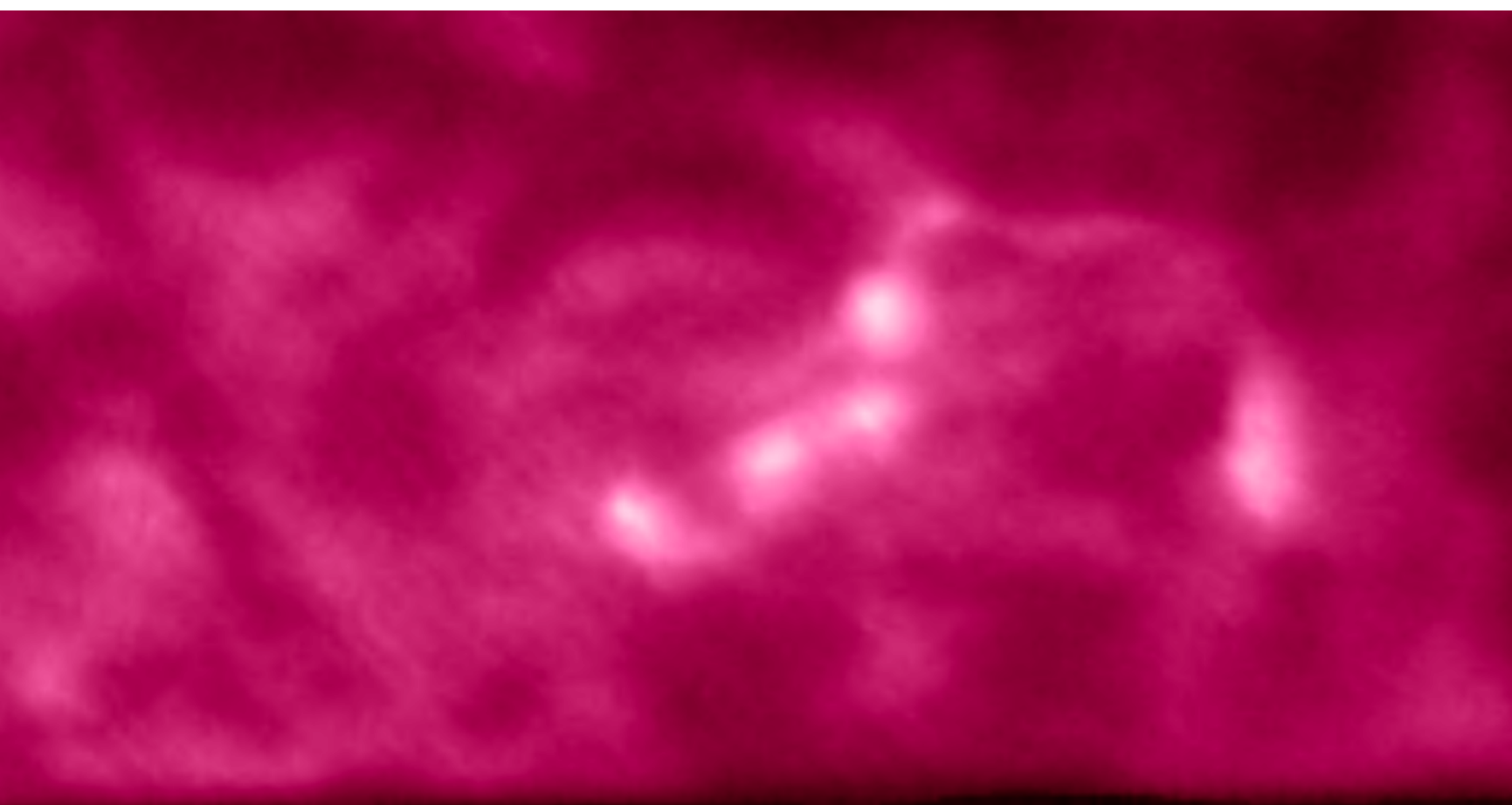
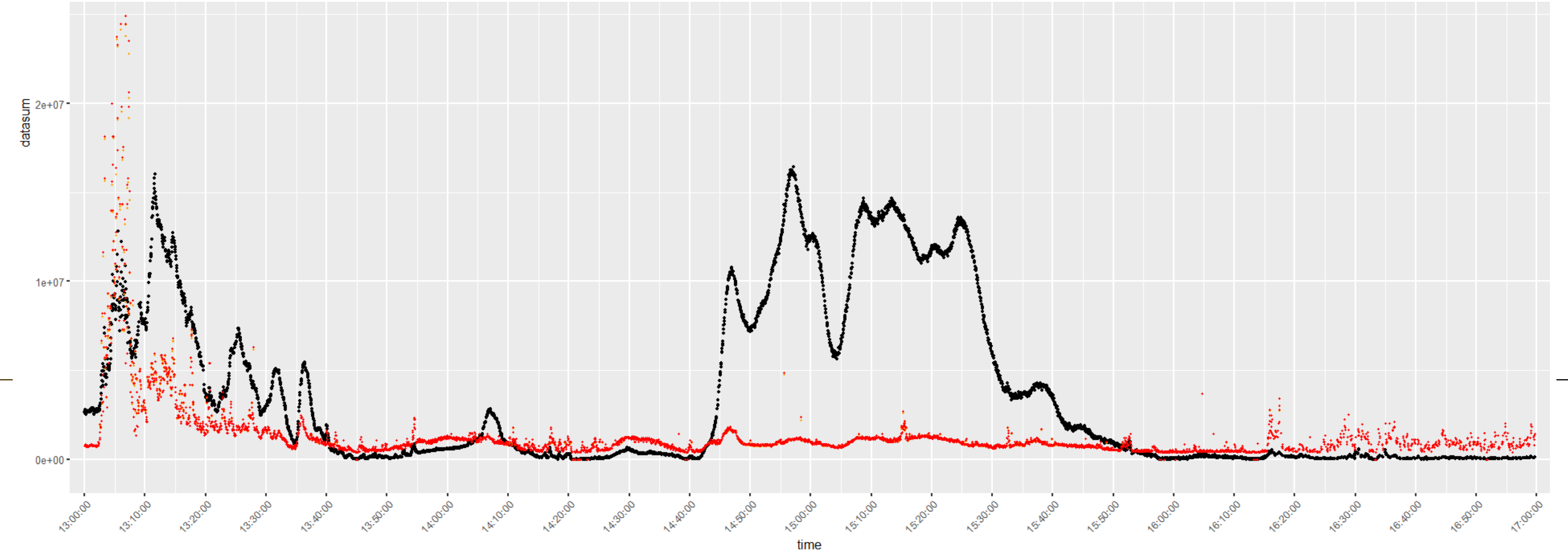
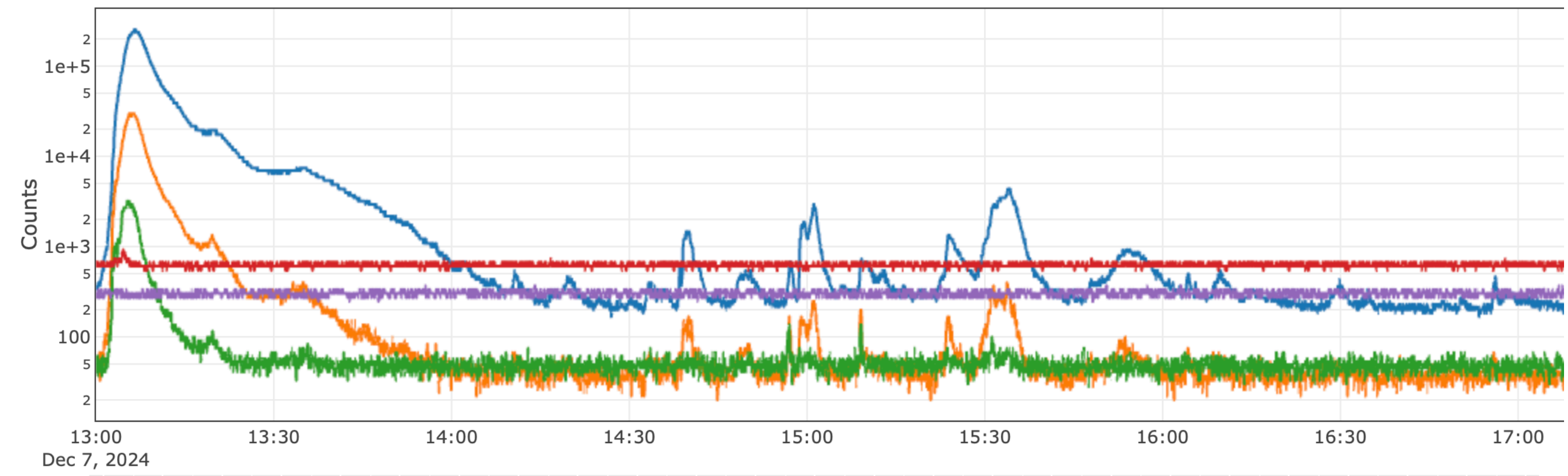
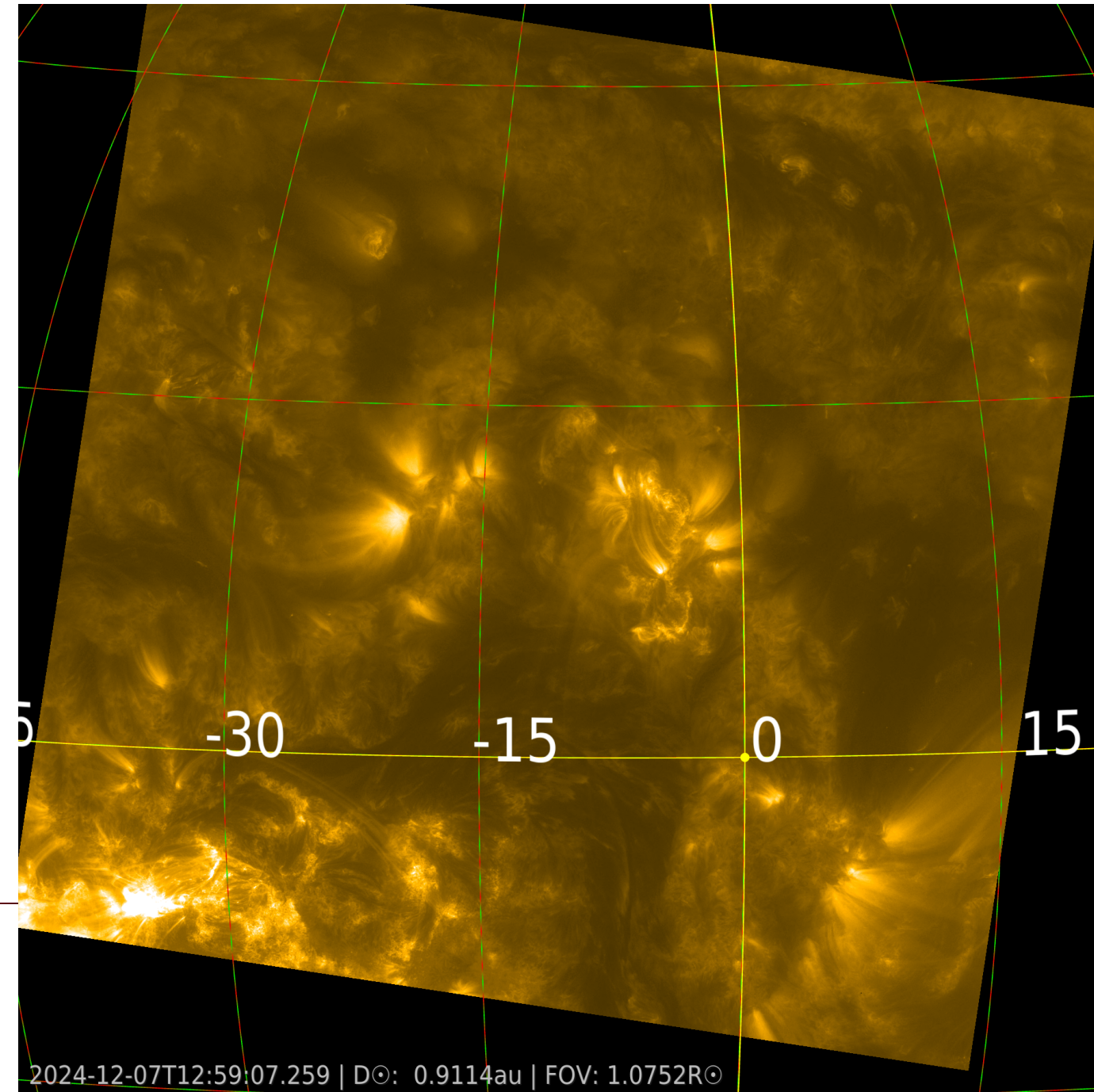
HRIEUV regular: 15s cad.  
short exp: 3s cad

NOAA GOES X-ray

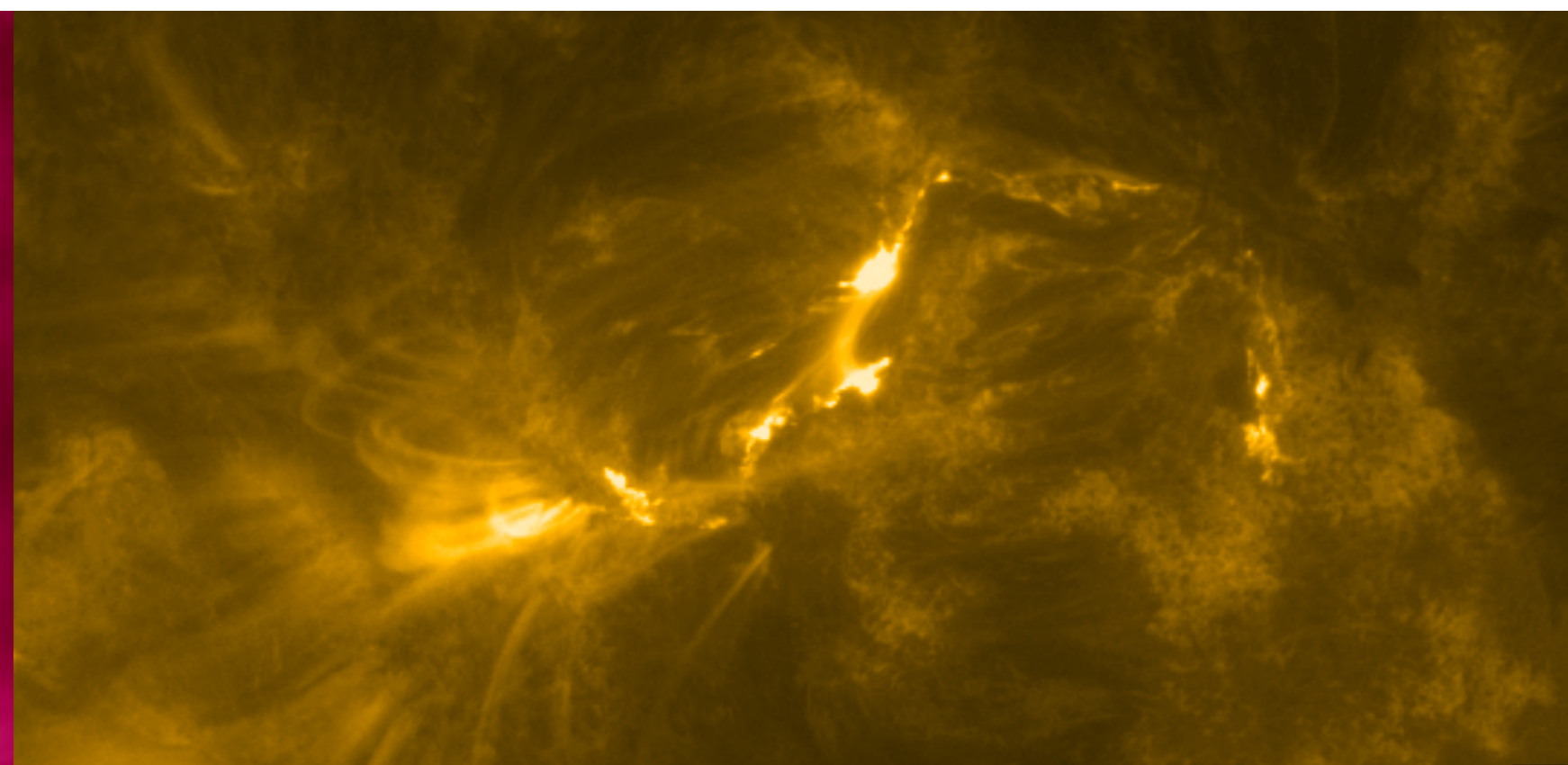
13:00 13:08 13:15 **M2.3** 3917

14:56 15:02 15:06 C2.6 3912

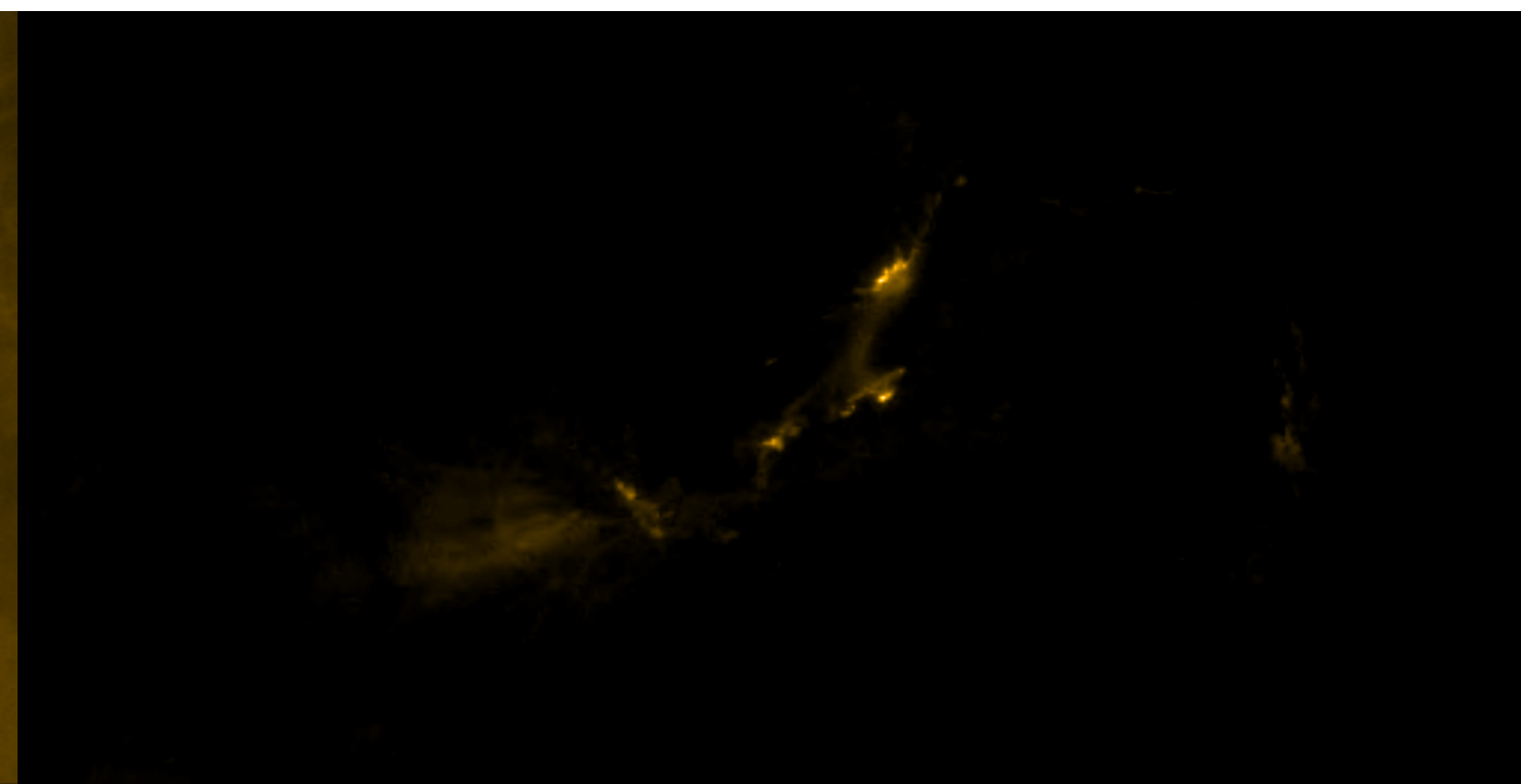
15:28 15:35 15:41 C3.6 3912



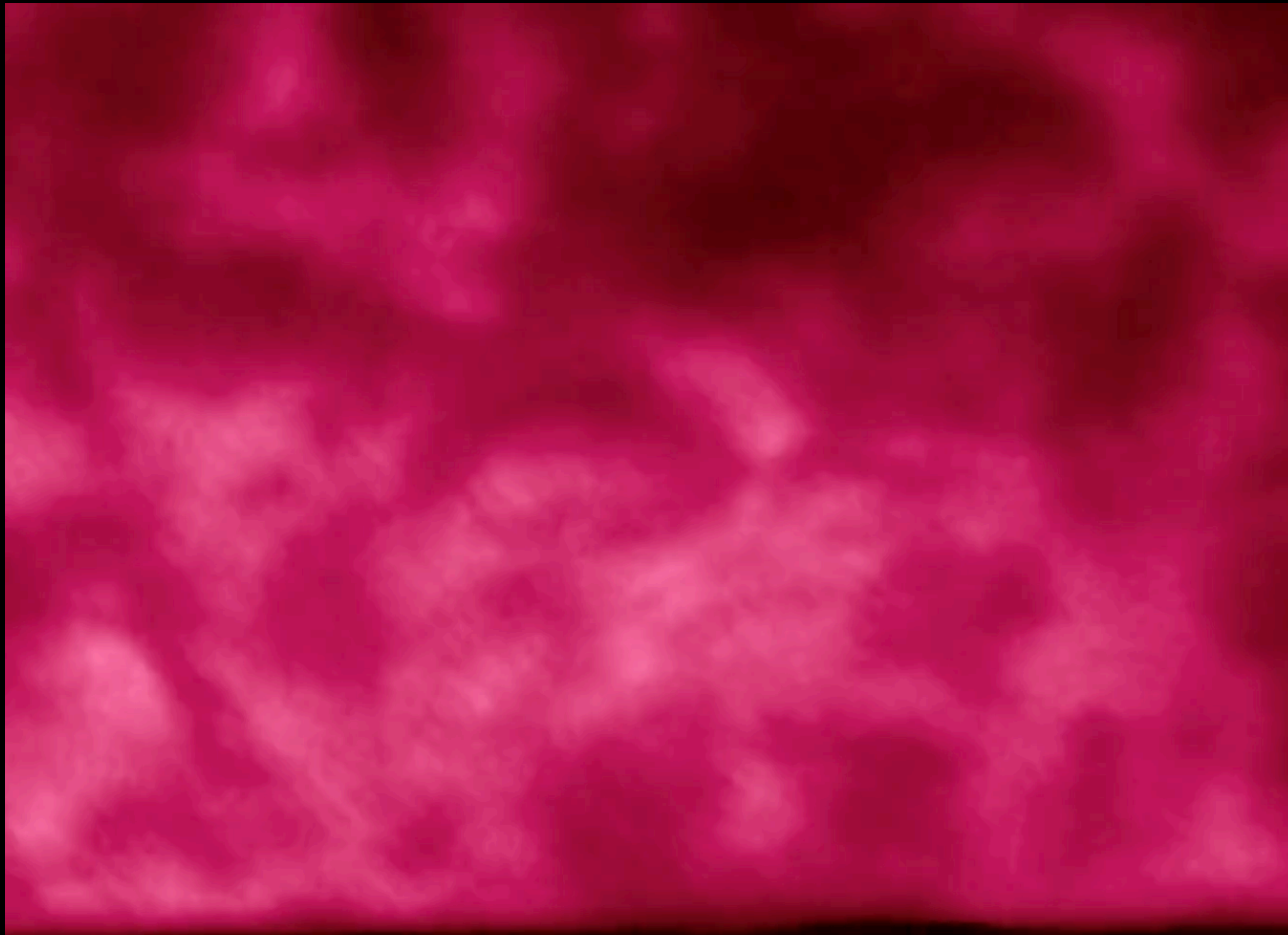
2024-12-07T13:06:33.260 EUI HRI-LYA 1216 | D☉: 0.9114au



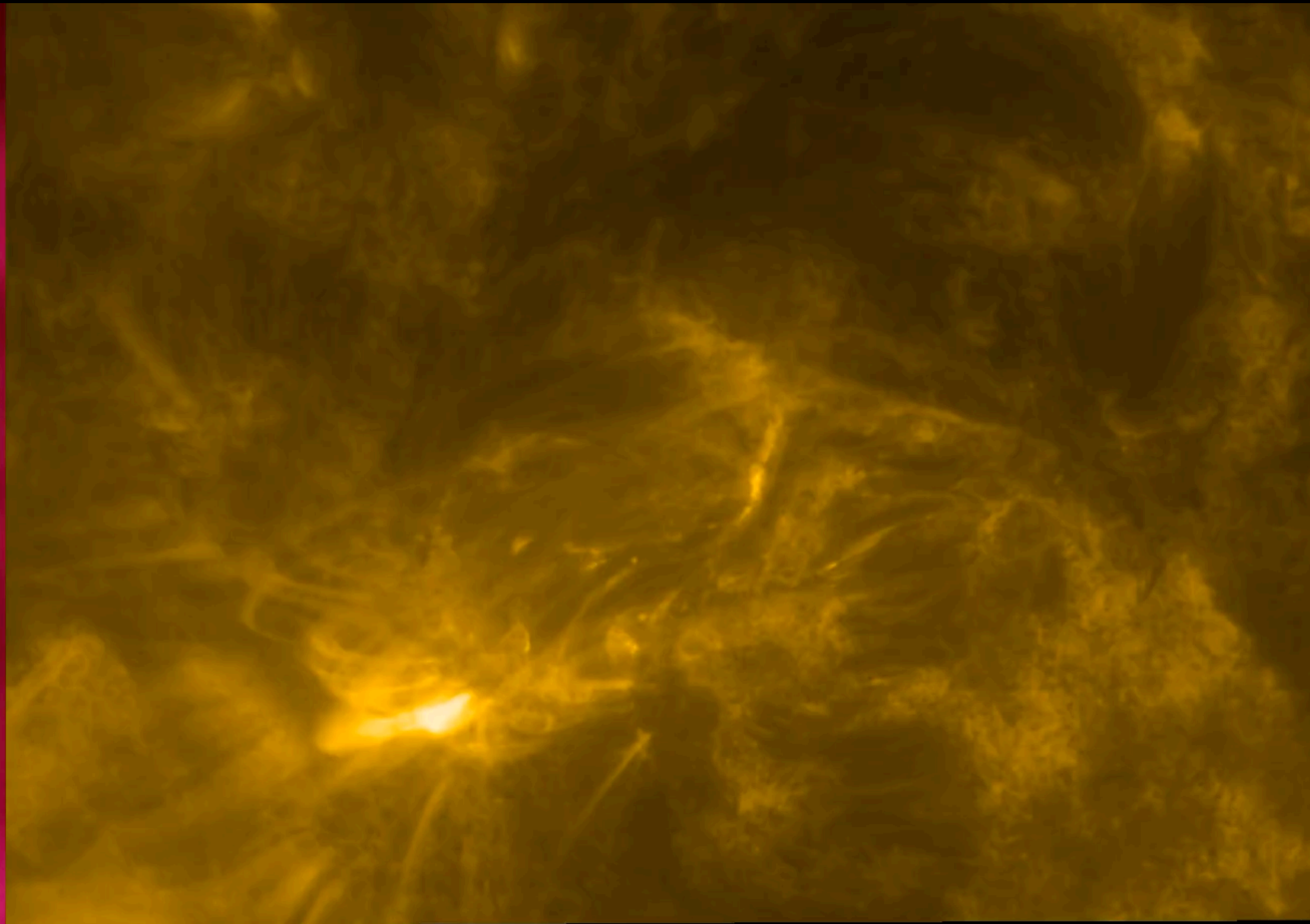
2024-12-07T13:06:37.259 EUI HRI-EUV 174 | D☉: 0.9114au



2024-12-07T13:06:34.278 EUI HRI-EUV 174 | D☉: 0.9114au



2024-12-07T13:00:03.259 EUI HRI-LYA 1216 | D☉: 0.9114au



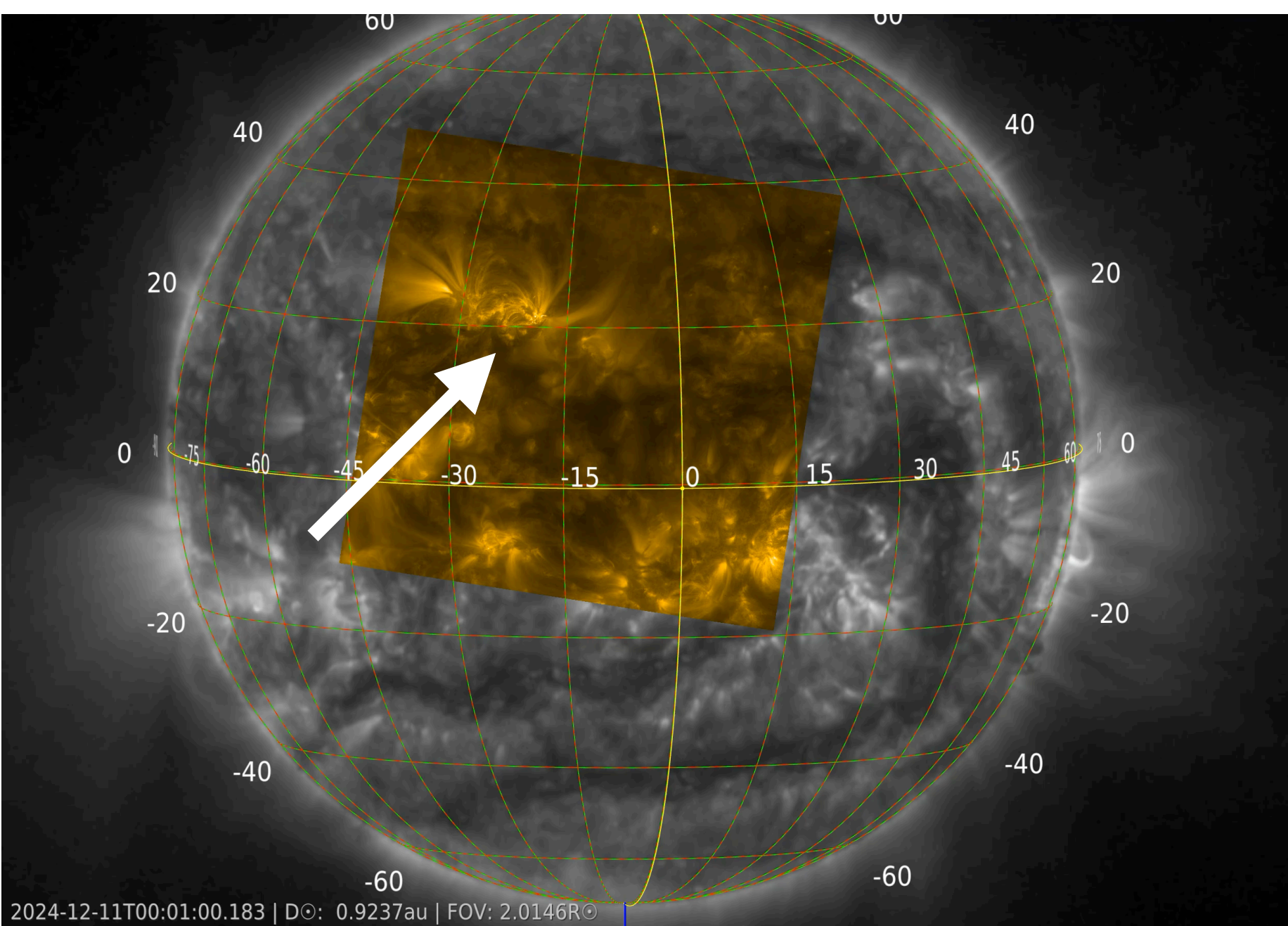
2024-12-07T13:00:13.257 EUI HRI-EUV 174 | D☉: 0.9114au



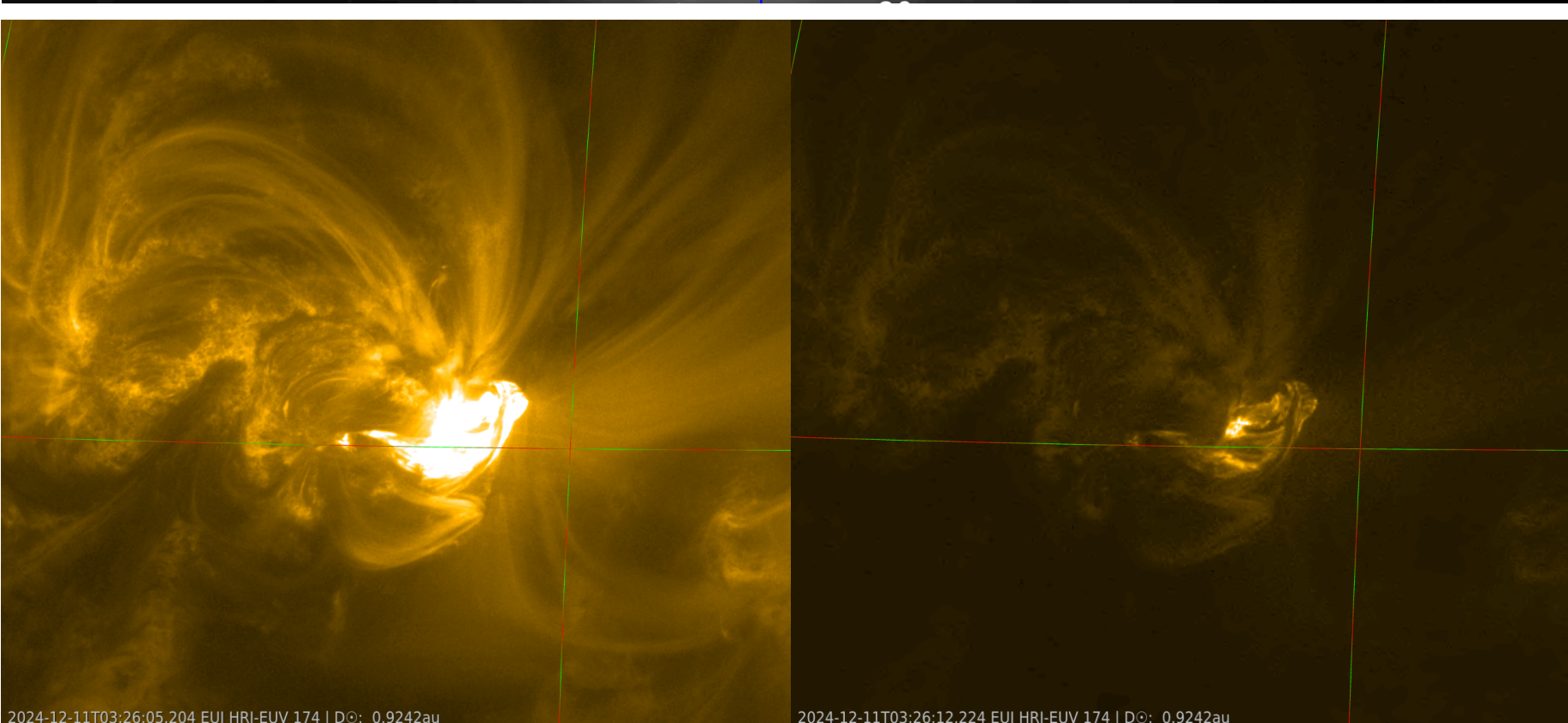
7. Dec 11 01:00-05:00

HRIEUV regular: 16s cad.  
short exp: 2s cad

NOAA GOES  
02:08 02:12 02:16 C3.1 3920  
03:20 03:26 03:30 **C6.9** 3920

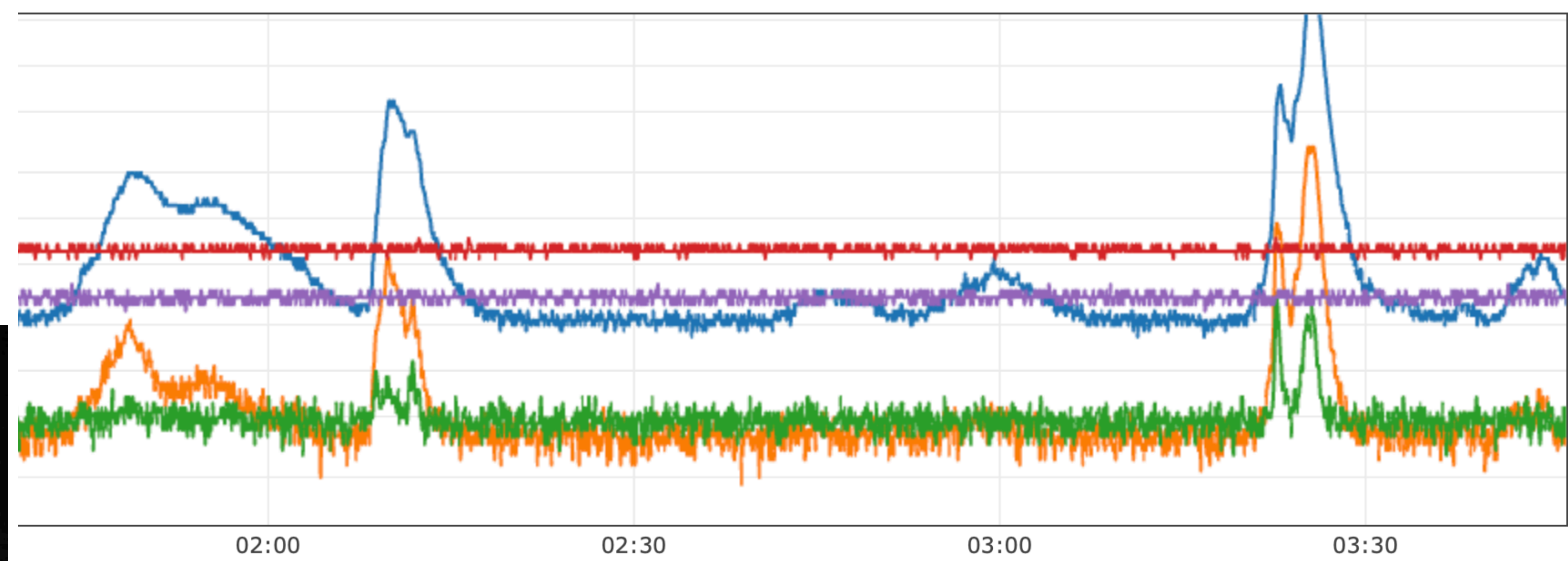


2024-12-11T00:01:00.183 | D<sub>☉</sub>: 0.9237au | FOV: 2.0146R<sub>☉</sub>

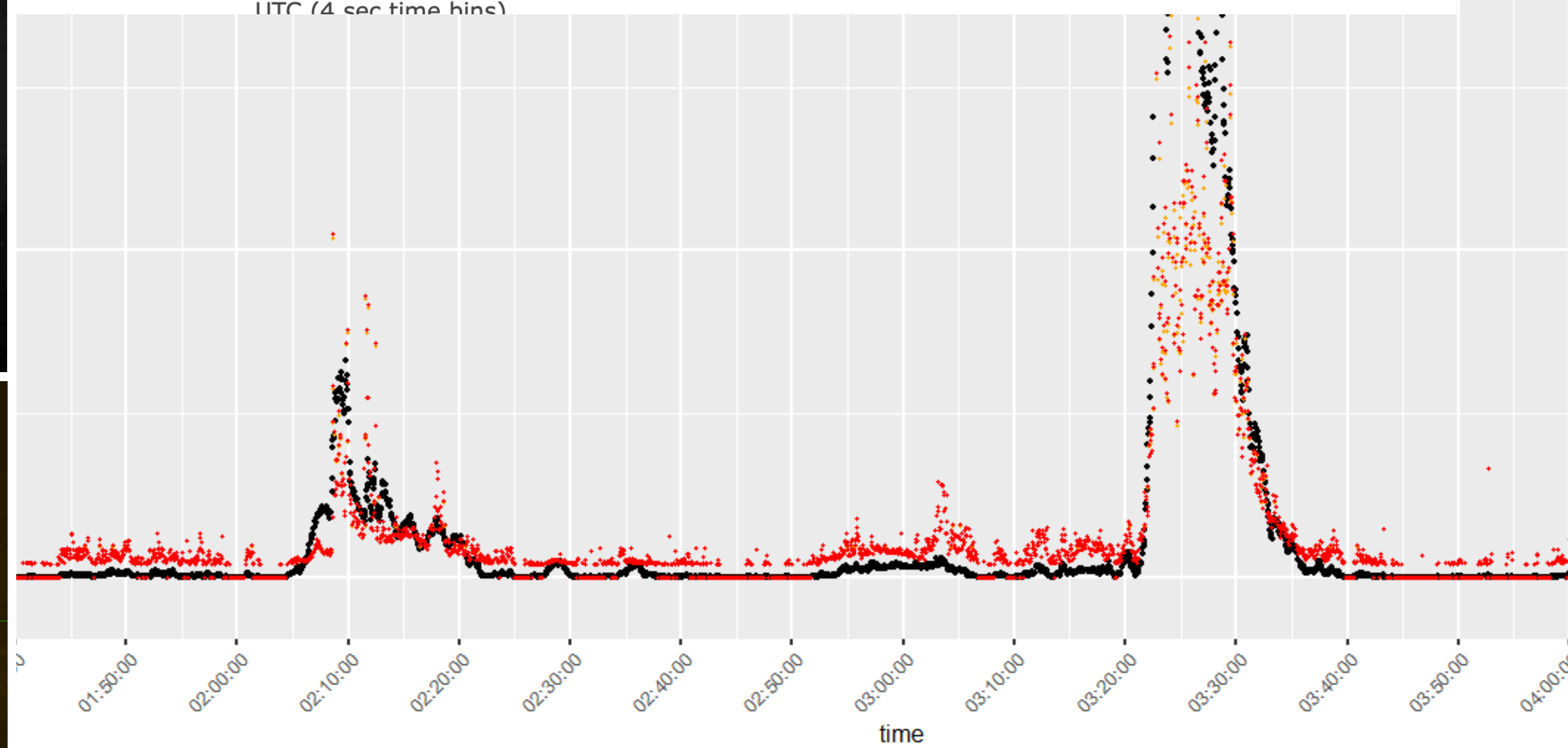


2024-12-11T03:26:05.204 EUV HRI-EUV 174 | D<sub>☉</sub>: 0.9242au

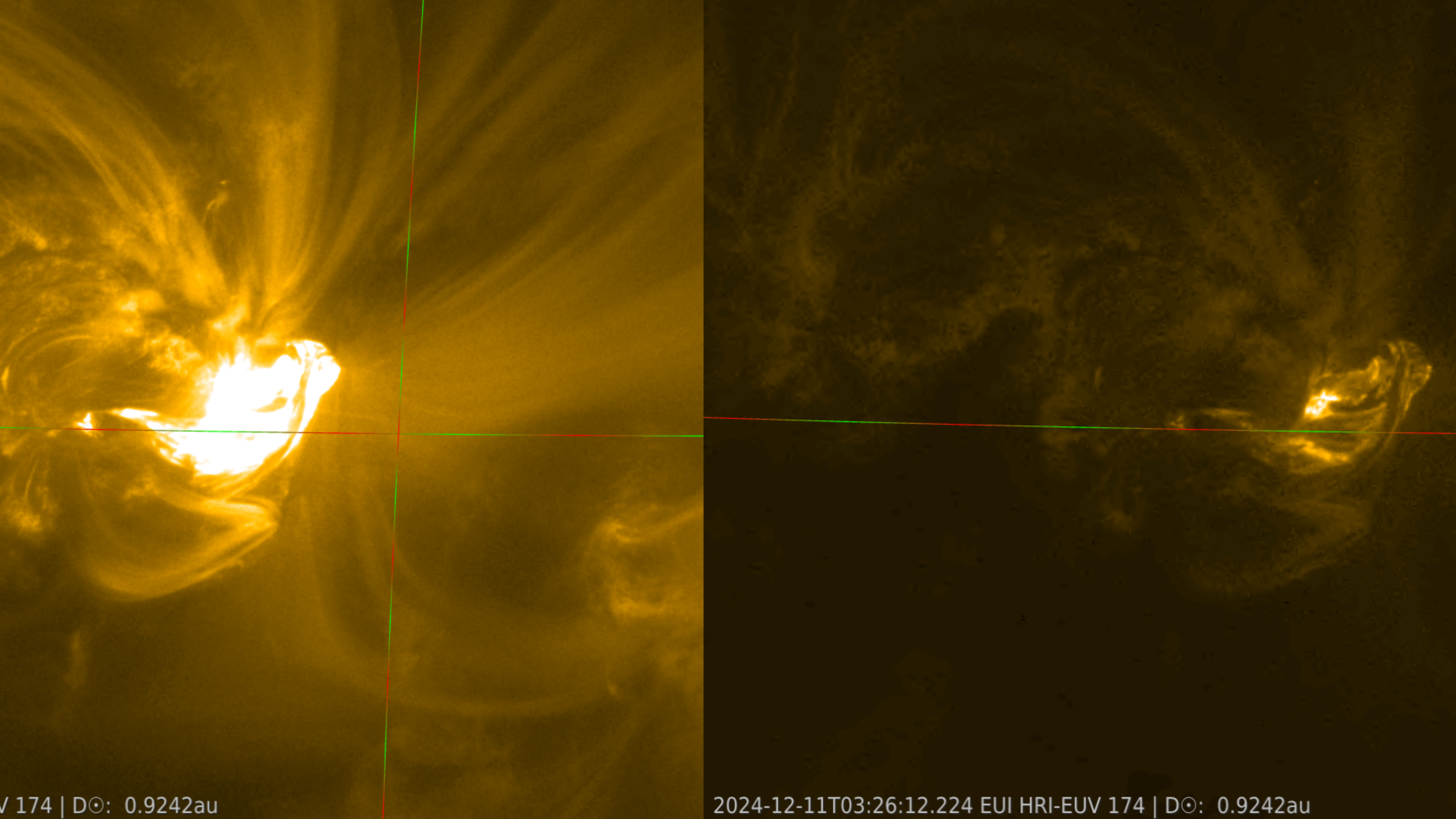
2024-12-11T03:26:12.224 EUV HRI-EUV 174 | D<sub>☉</sub>: 0.9242au



LITC (4 sec time bins)



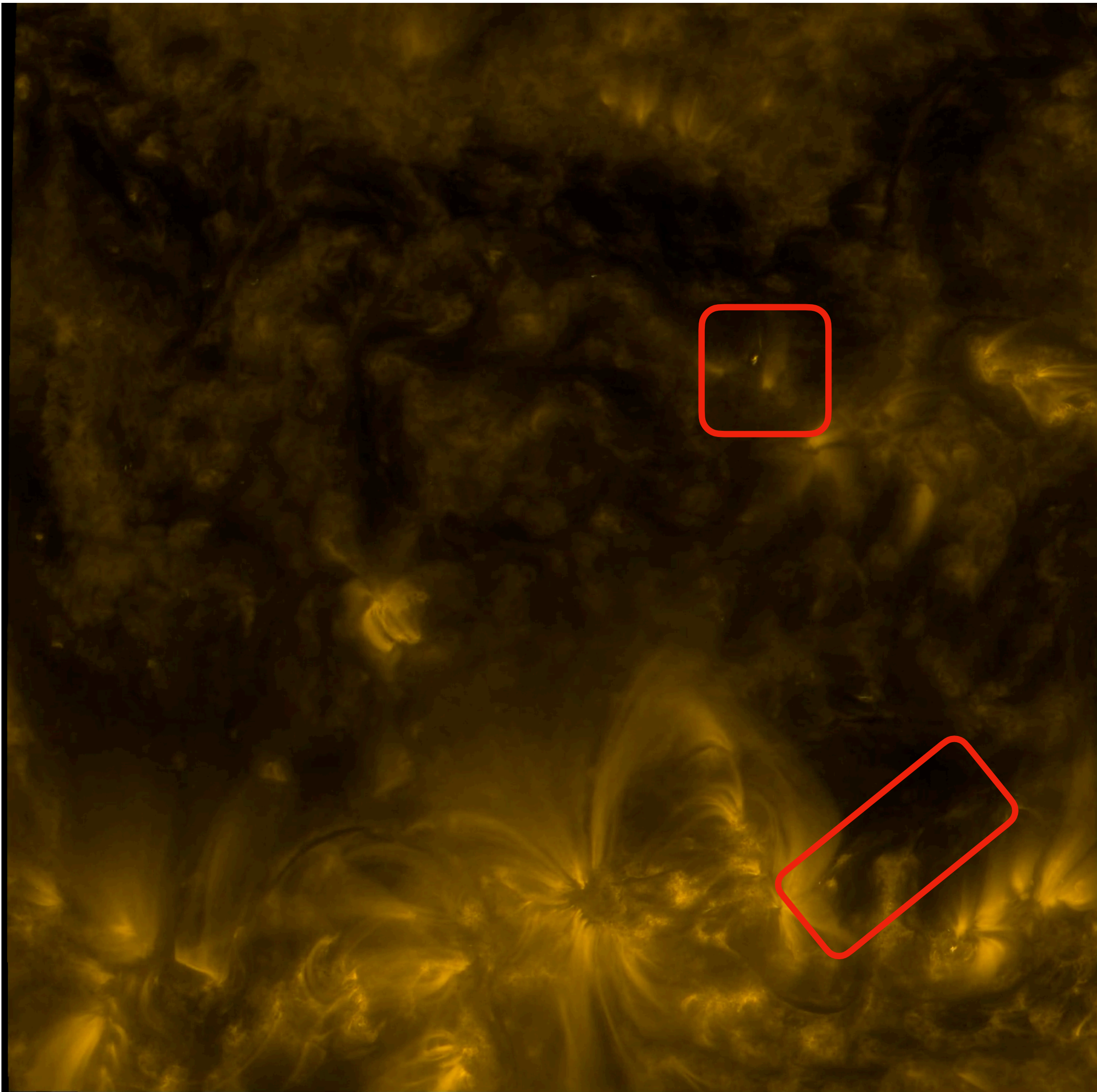
time



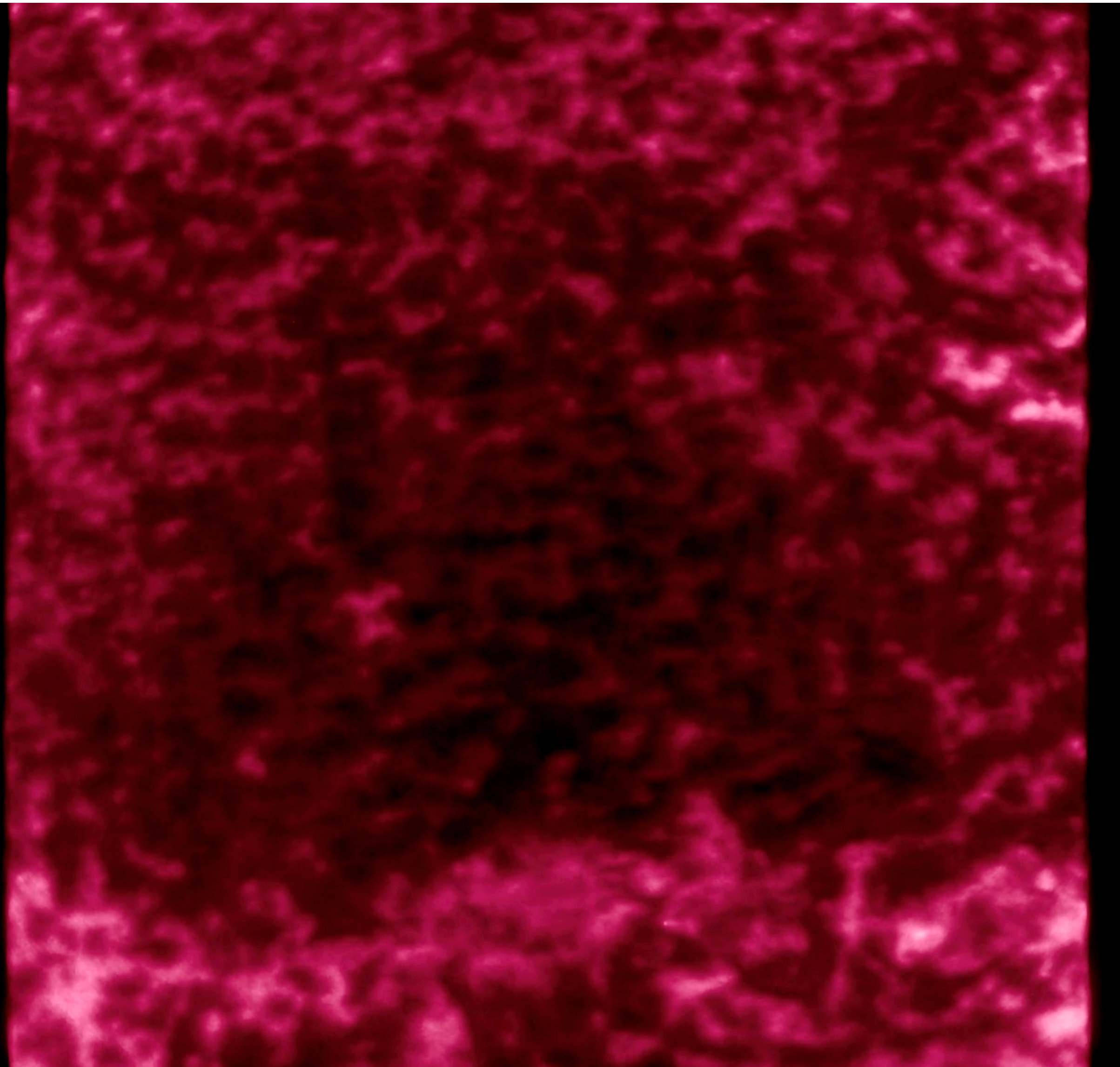
1.Dec 4 07:00-11:00

HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad



2024-12-04T08:54:27.280 EUI HRI-EUV 174 | D<sub>☉</sub>: 0.8981au

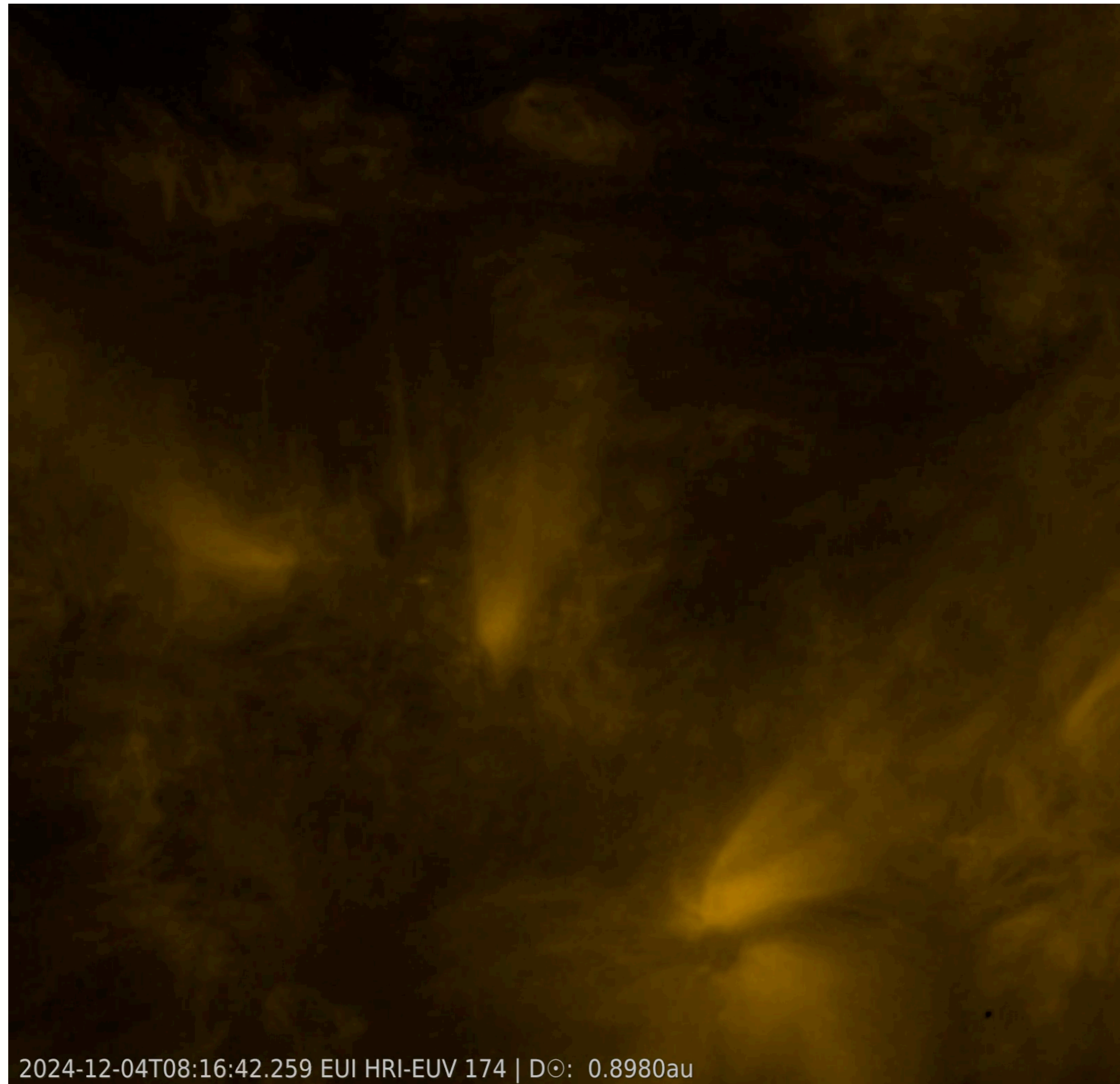


2024-12-04T08:54:33.318 EUI HRI-LYA 1216 | D<sub>☉</sub>: 0.8981au

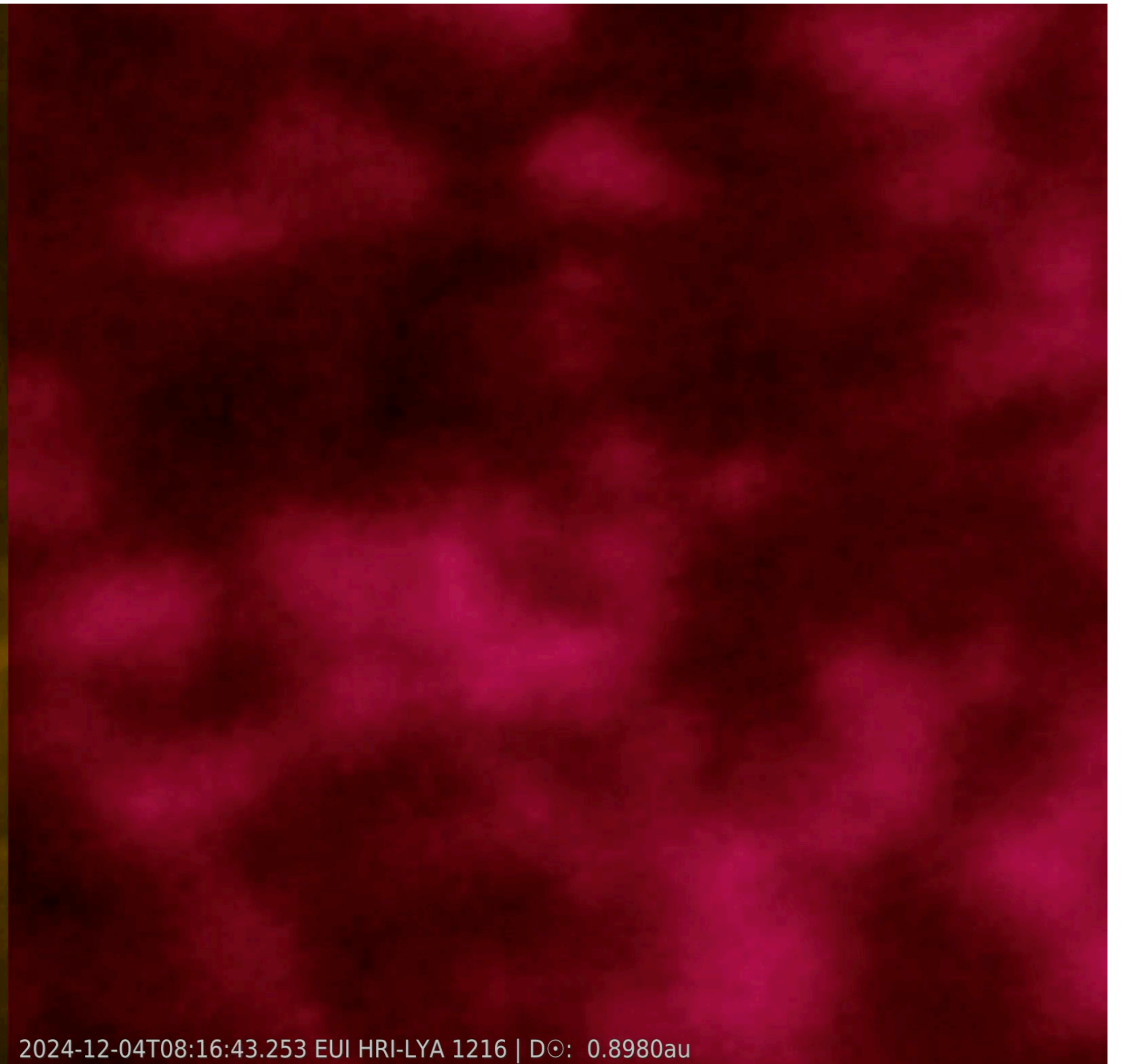
1.Dec 4 07:00-11:00

HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad



2024-12-04T08:16:42.259 EUI HRI-EUV 174 | D<sub>☉</sub>: 0.8980au

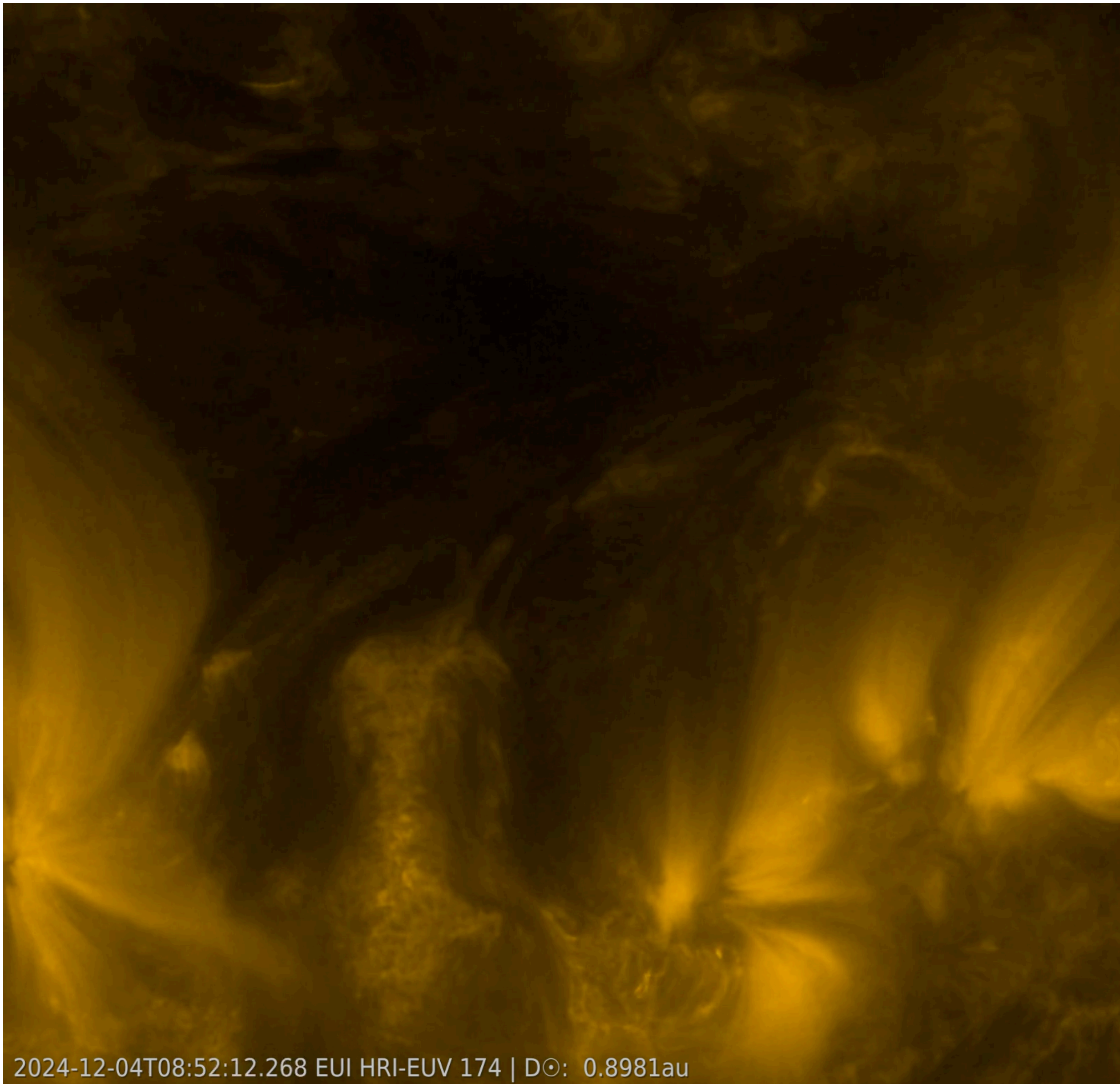


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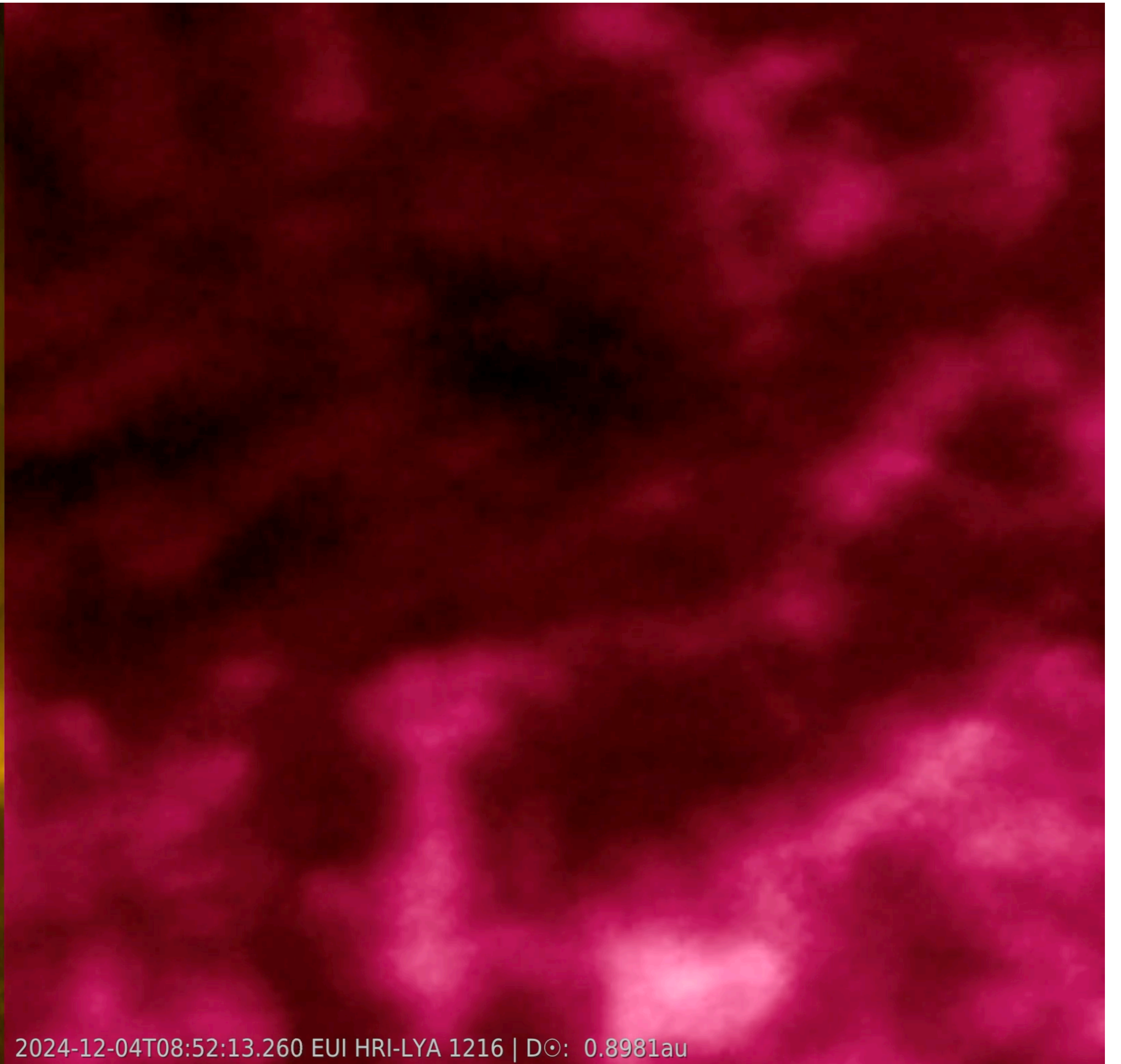
1.Dec 4 07:00-11:00

HRILYA: 10s cadence

HRIEUV regular: 15s cad.  
short exp: 3s cad



2024-12-04T08:52:12.268 EUI HRI-EUV 174 | D<sub>☉</sub>: 0.8981au



2024-12-04T08:52:13.260 EUI HRI-LYA 1216 | D<sub>☉</sub>: 0.8981au

# Wrap-up

- 2 sequences with flaring activity (Dec 7 M2.3 & Dec 11 C6.9)
- Lots of other interesting stuff. Corresponding PHI data?
- Would be nice to get this labeled as MajorFlare SOOP in SPK.
- Worthwhile activity when TM is plenty.