# SIDC Space Weather Briefing

08 June 2026-14 June 2026

Daria Shukhobodskaia

& the SIDC forecaster team

Royal Observatory
*of* Belgium

Solar Influences
Data analysis Centre
www.sidc.be

# Summary Report

## Solar activity from 2026-06-08 00:00 to 2026-06-14 23:59

| | |
|---|---|
| Active regions | 12 Active regions: SIDC SG 870 (NOAA AR 4465) |
| Flares | # C-class flare: 49  # M-class flare: 0  # X-class flare: 0 |
| Coronal Holes | negative polarity SIDC CH 147, positive polarity SIDC CHs 168, 169 |
| CMEs | CMEs from June 9 (SIDC CME 673), 11 (SIDC CME 675) and 12 (SIDC CME 676) |

| | |
|---|---|
| Proton flux | below 10 pfu threshold |
| Electron flux | crossed 1000 pfu threshold on June 8-10 and from June 13 |

## Solar wind and geomagnetic conditions

| | |
|---|---|
| ICMEs | 2026-06-09T09:53Z (SIDC 672) 2026-06-13T09:51 (SIDC CME 675) |
| Solar wind conditions | \|B\|: 0.89 - 17 nT  //Bz: -12 nT  to  15 nT //Speed:  385 – 650 km/s |
| Geomagnetic conditions | max KBel: 4.0,  max Kp(NOAA): 5.0,  Minor Storm conditions |

All Quiet Alert: Off

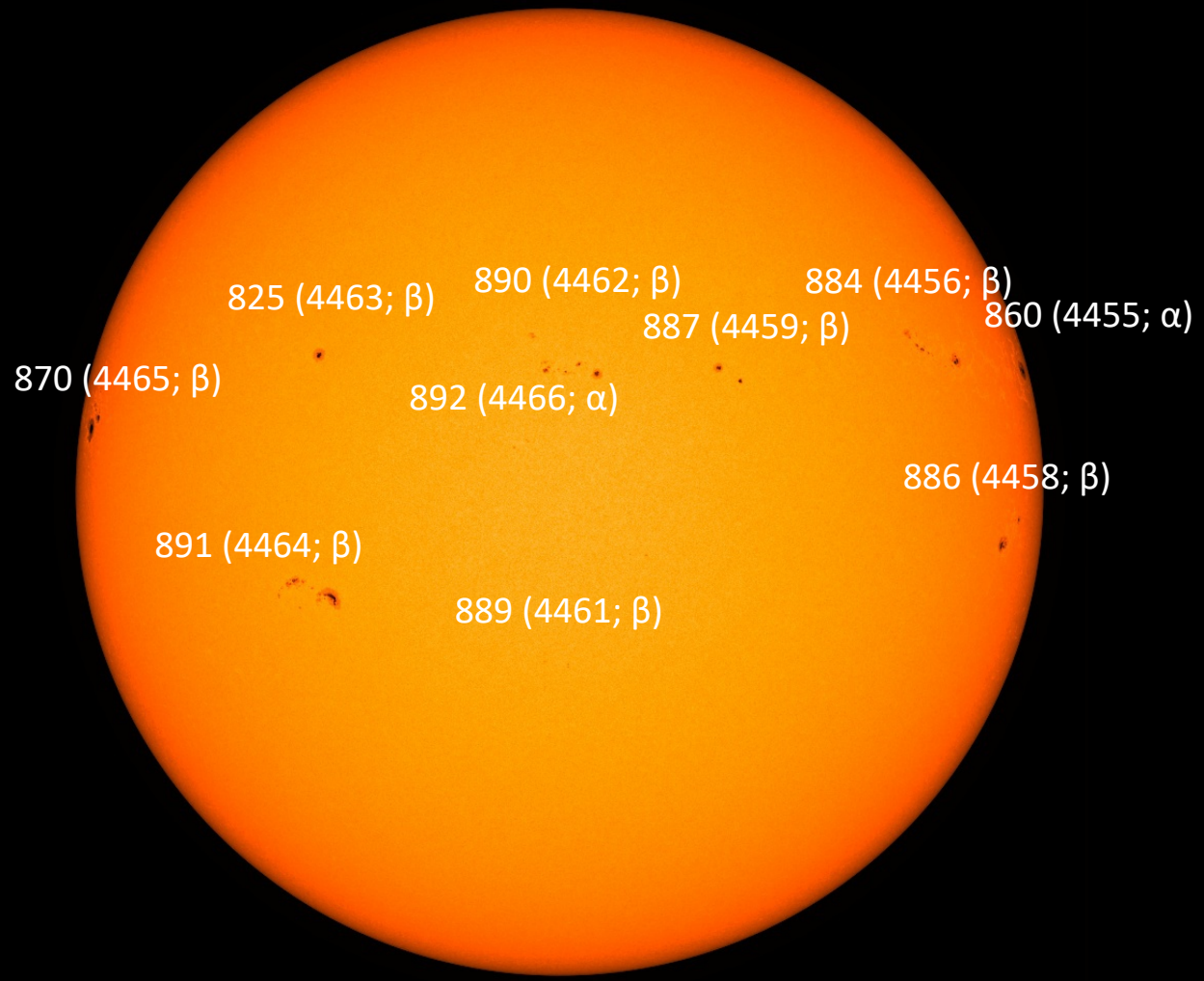
# Solar Activity

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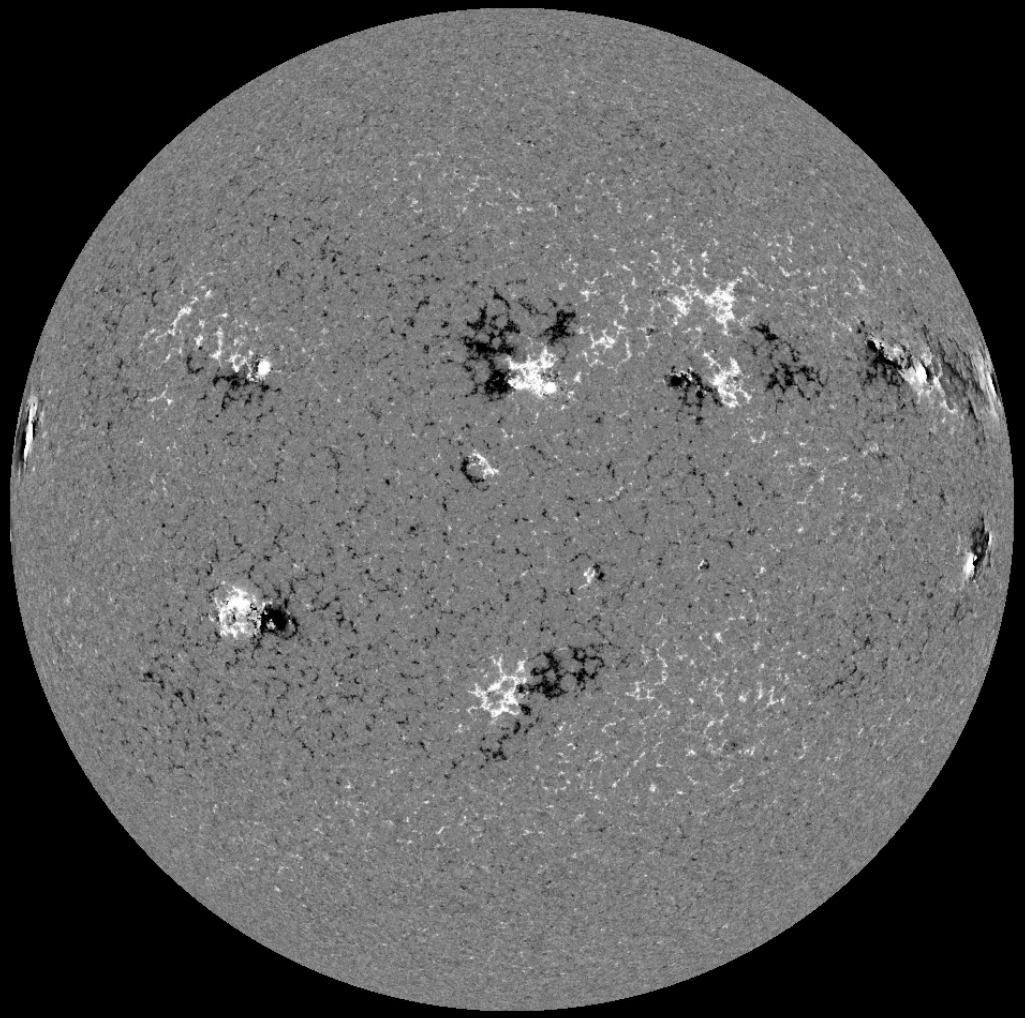
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# Solar active regions

SDO/HMI White Light 2026-06-08

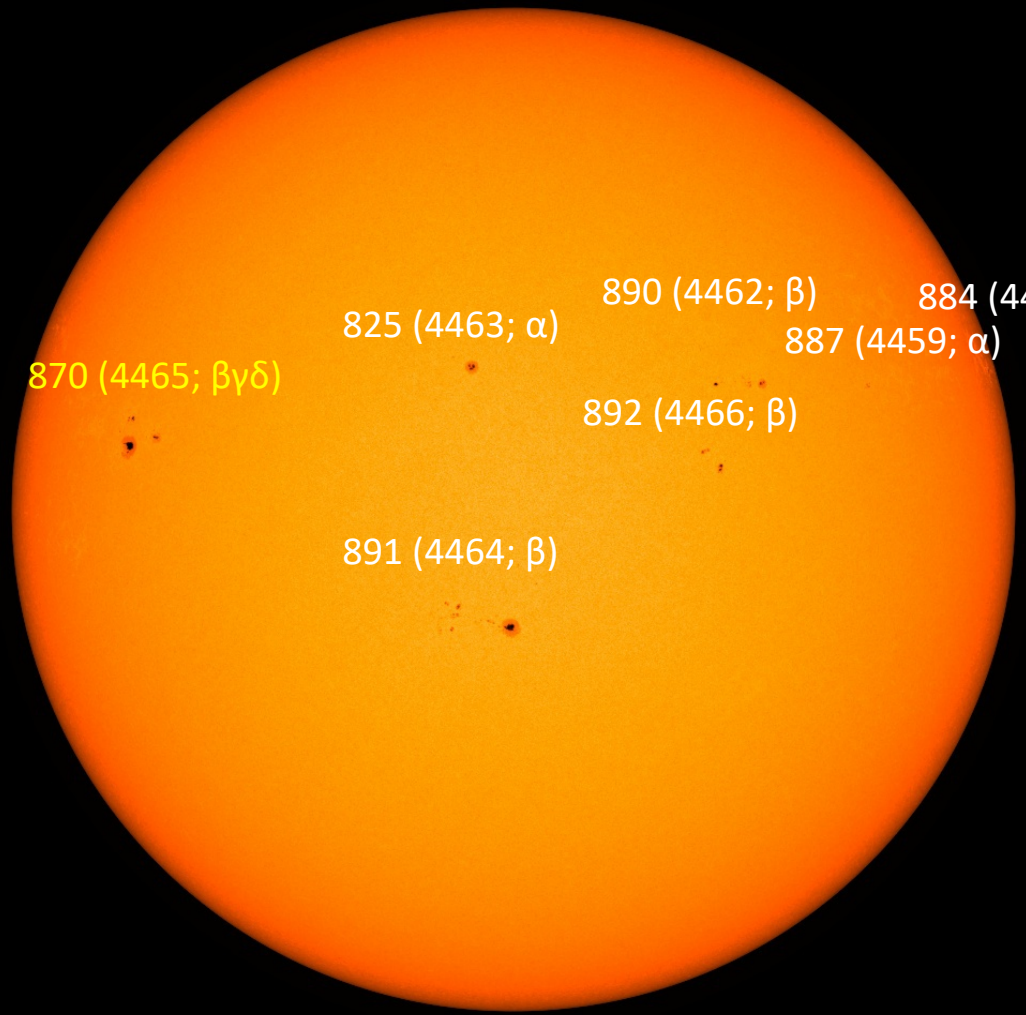



SDO/HMI Magnetogram 2026-06-08

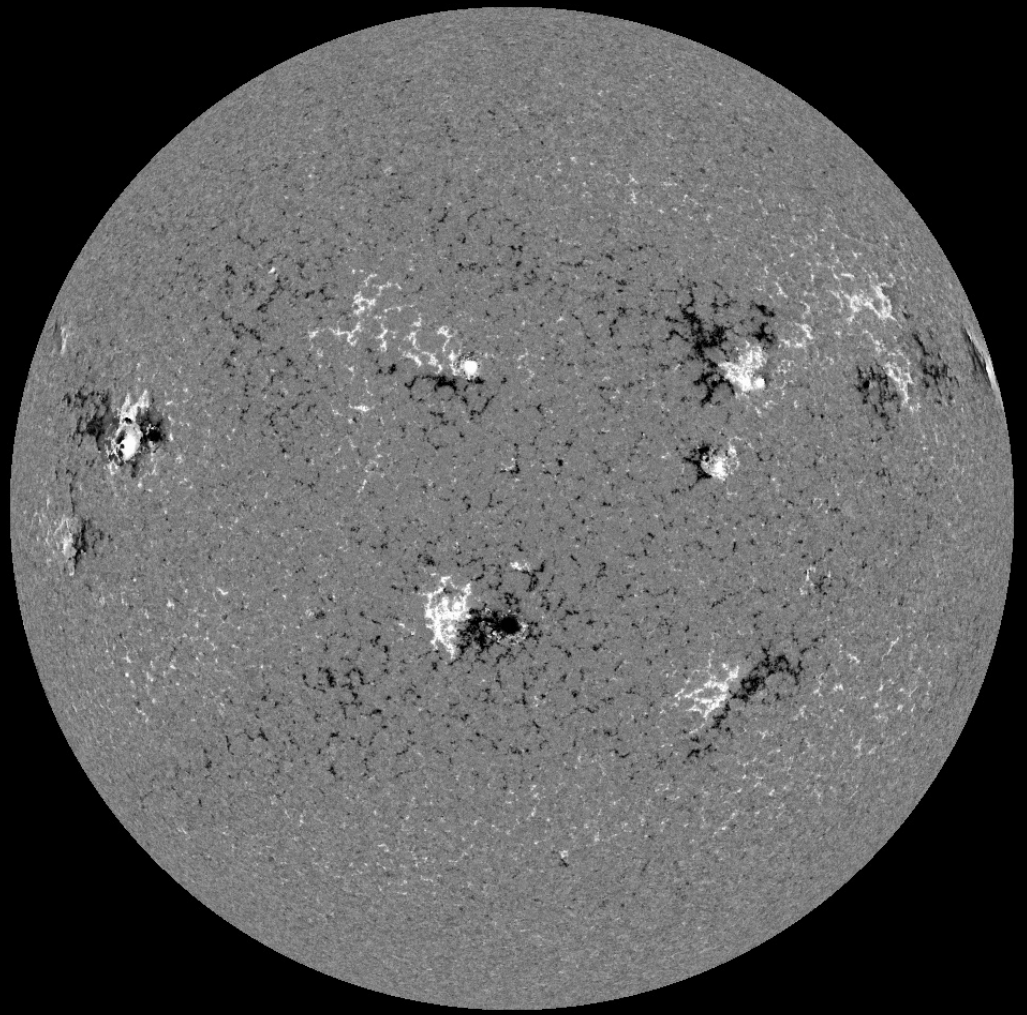


# Solar active regions

SDO/HMI White Light 2026-06-10

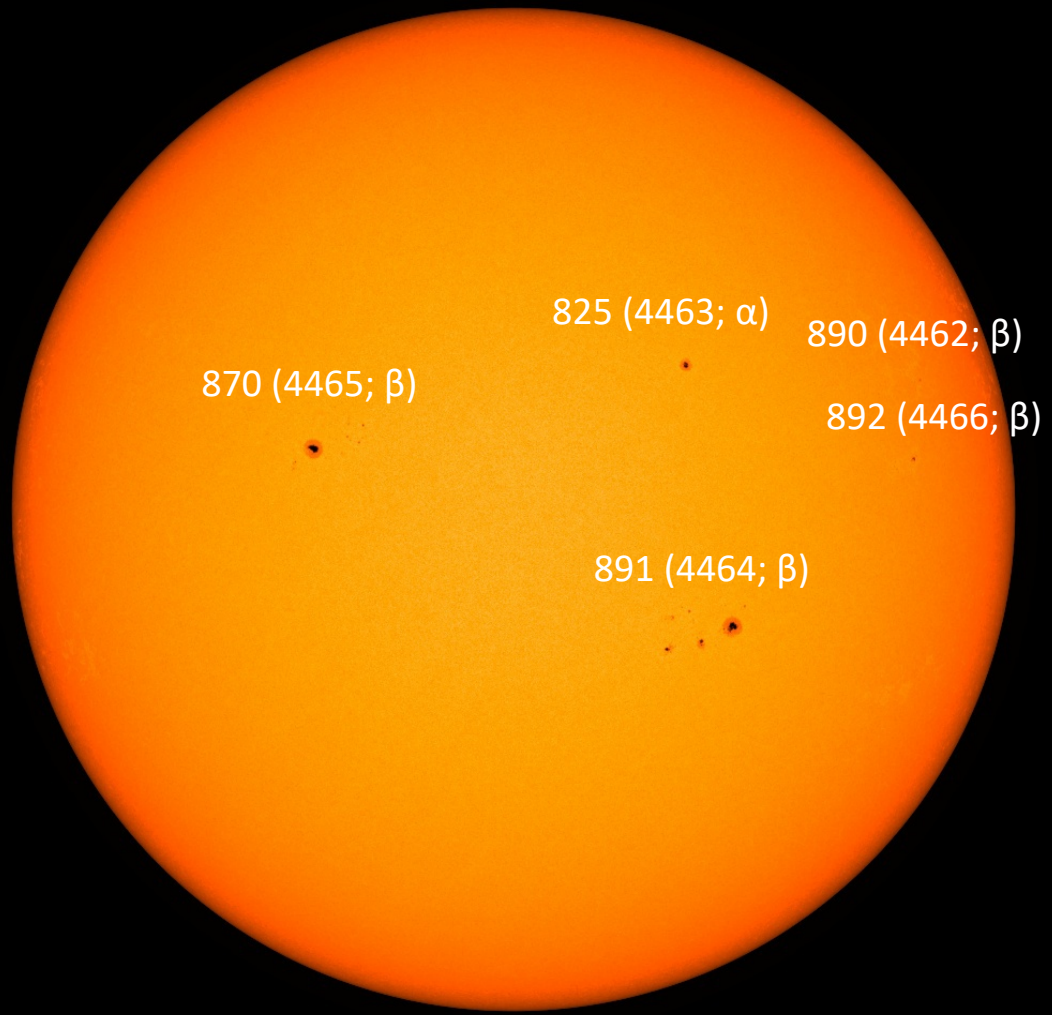



SDO/HMI Magnetogram 2026-06-10

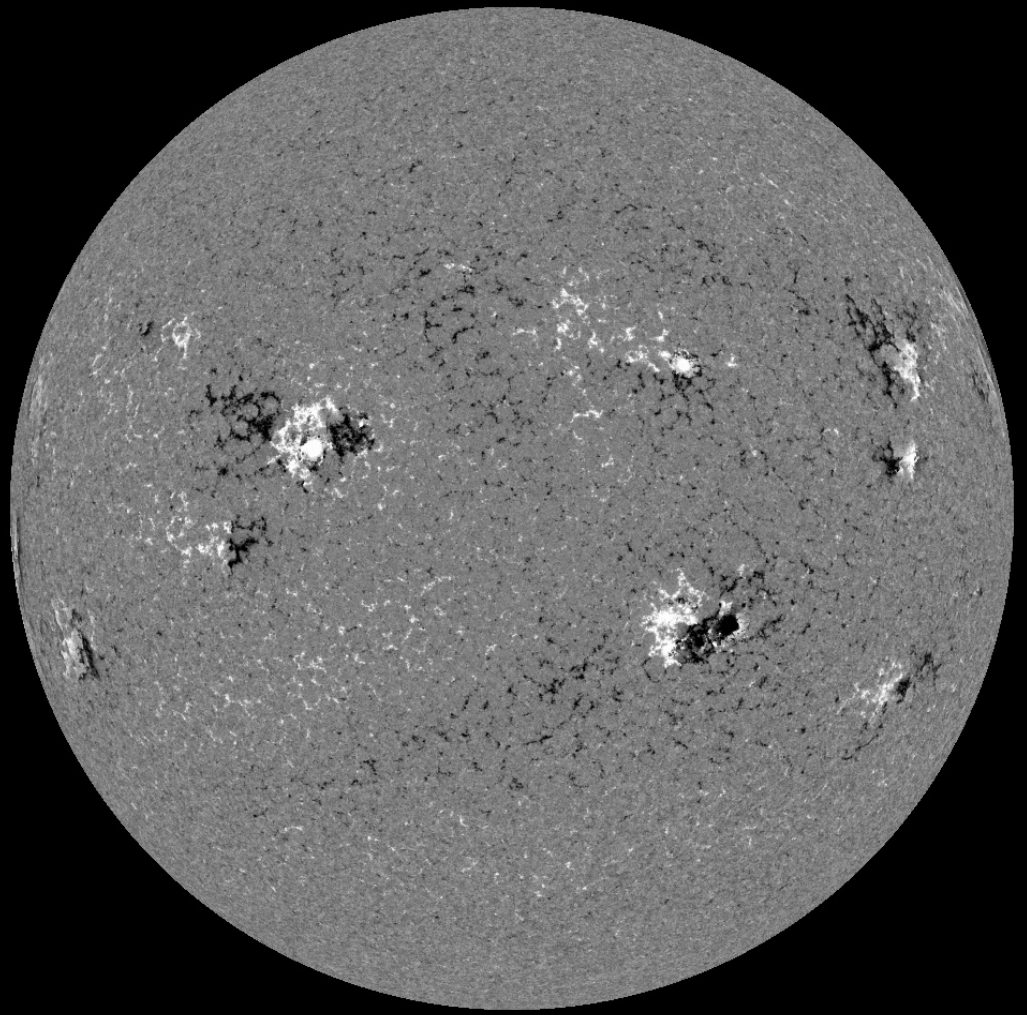


# Solar active regions

SDO/HMI White Light 2026-06-12

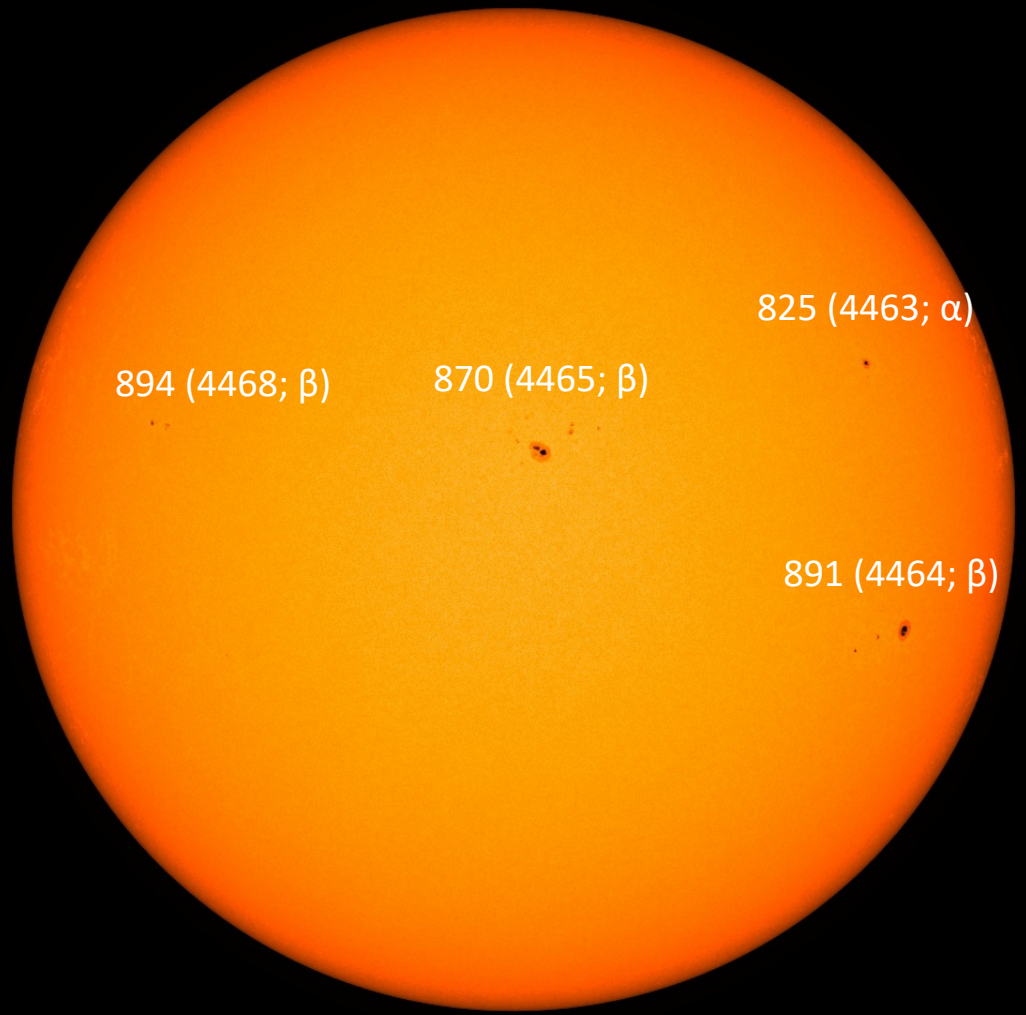



SDO/HMI Magnetogram 2026-06-12

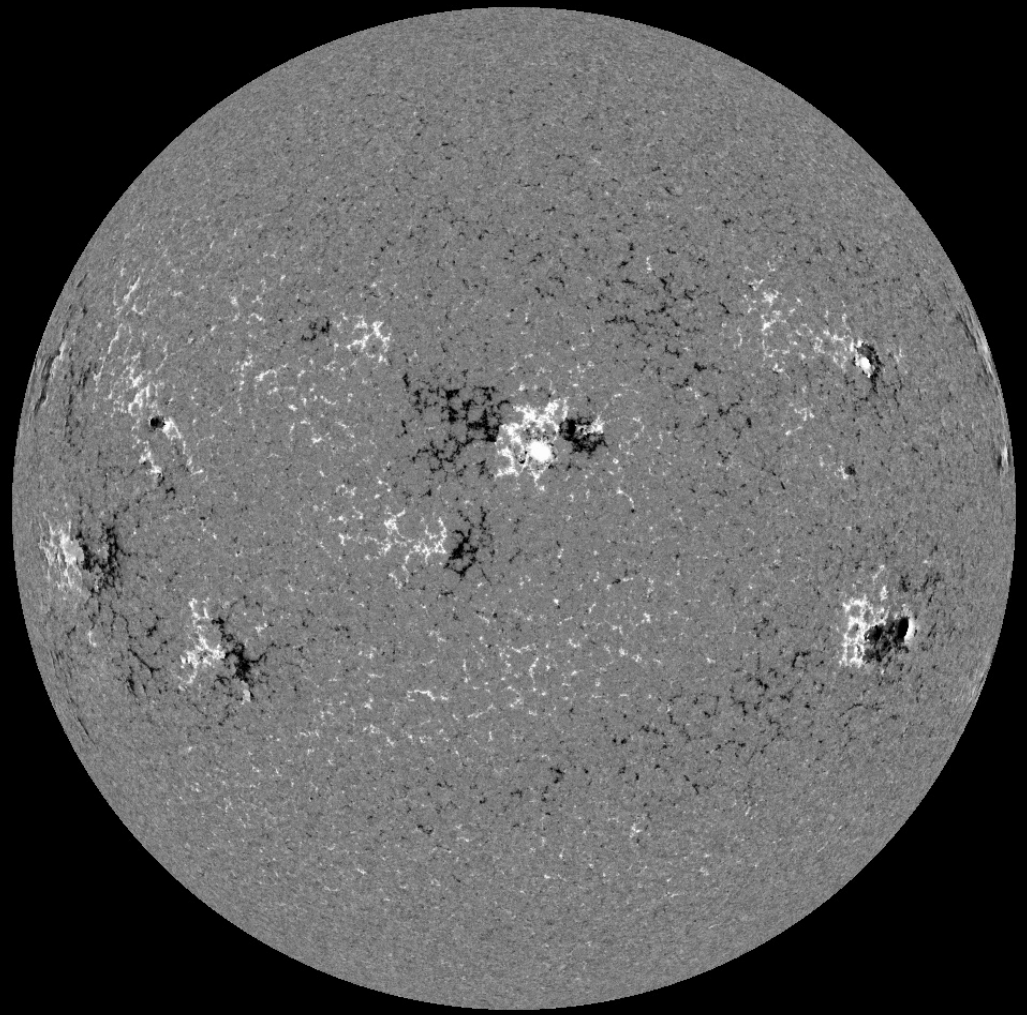


# Solar active regions

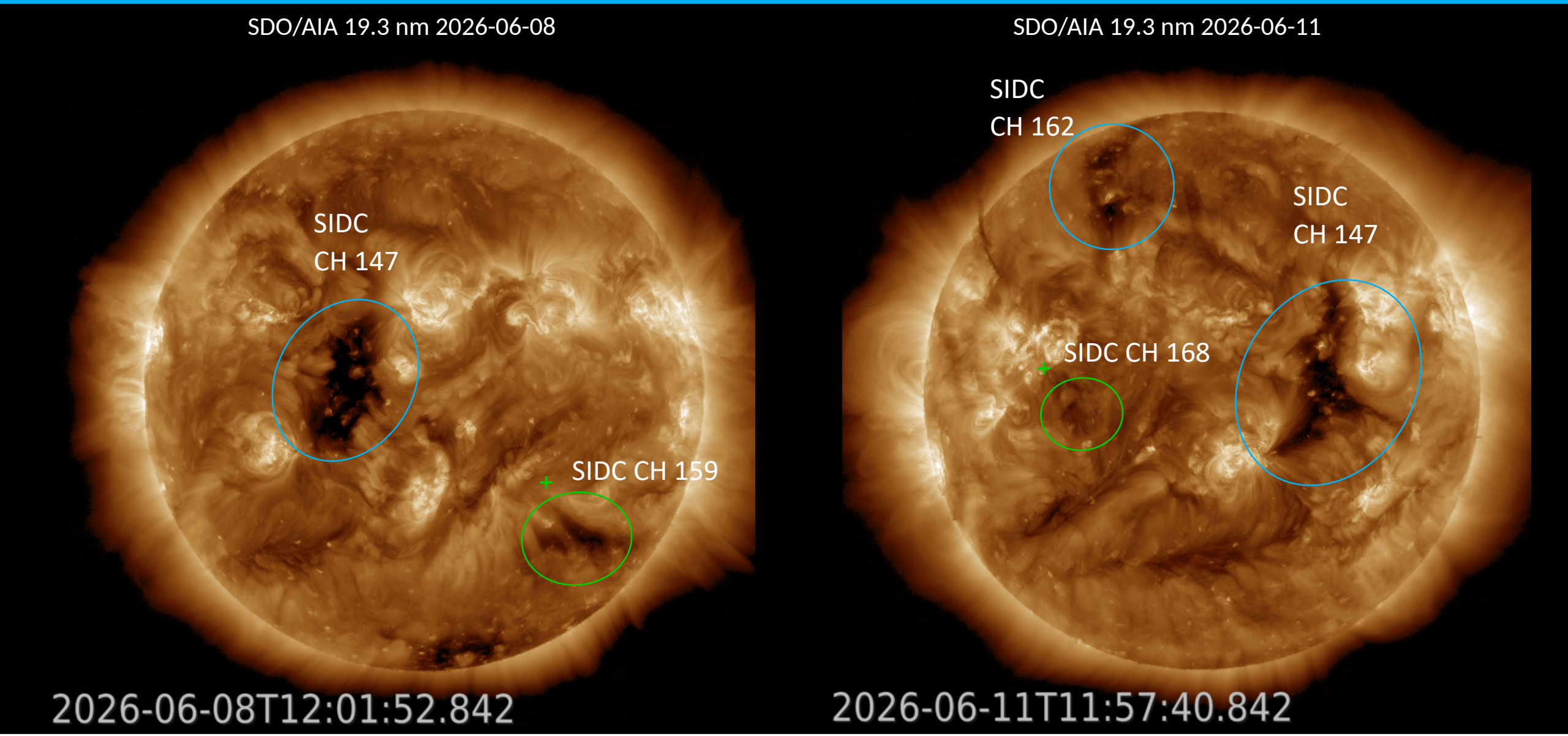
SDO/HMI White Light 2026-06-14



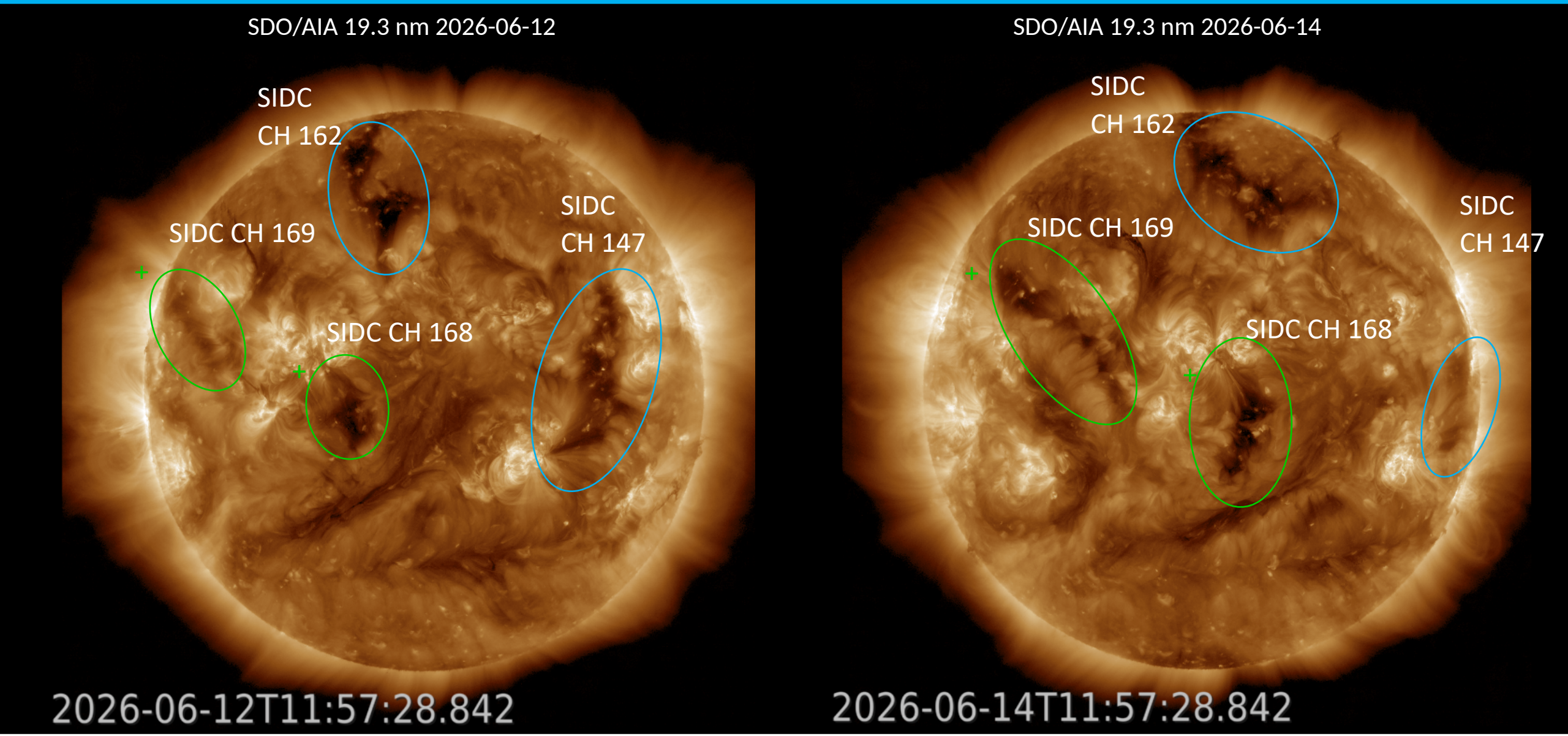

SDO/HMI Magnetogram 2026-06-14



# Coronal holes

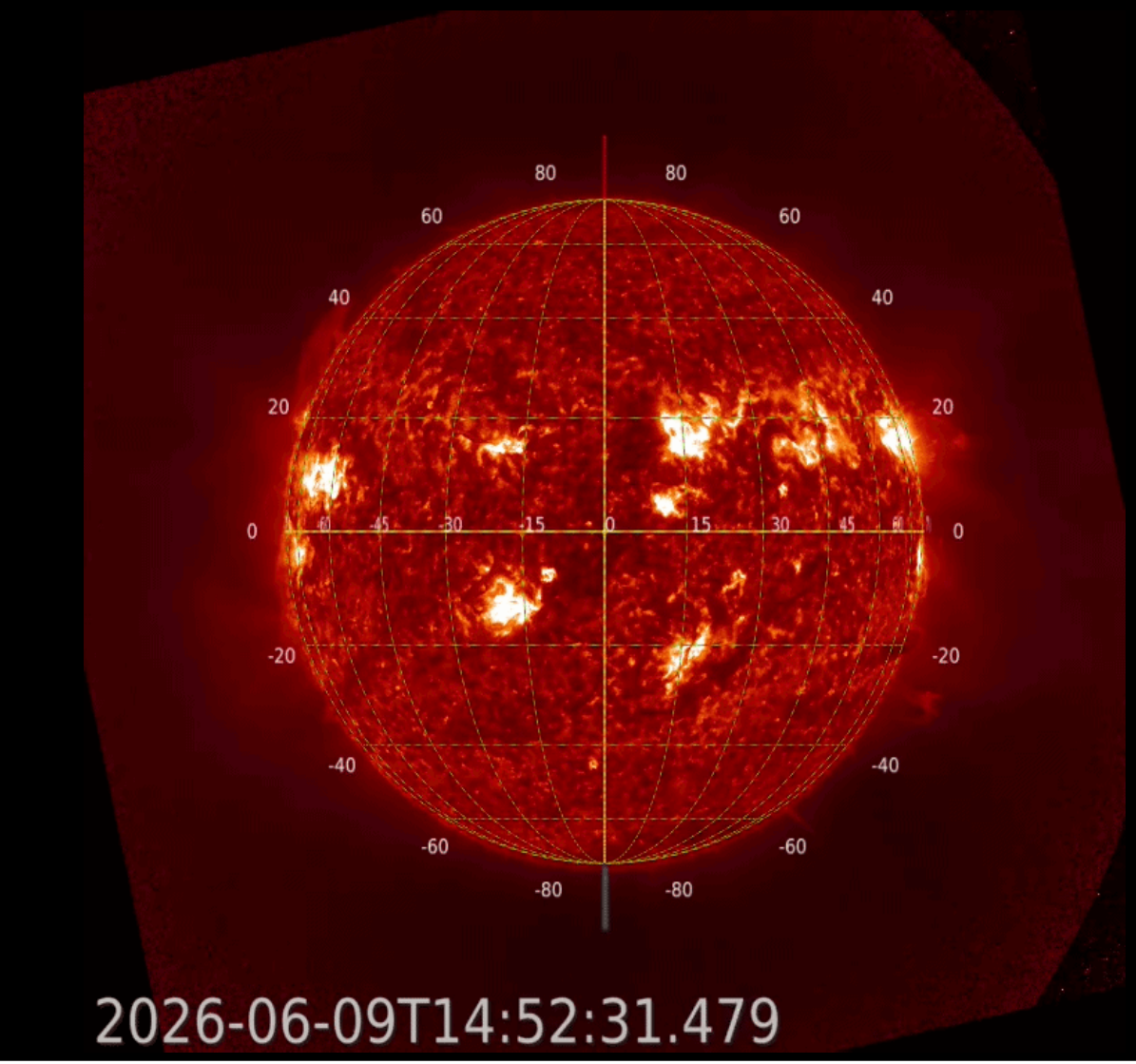


# Coronal holes

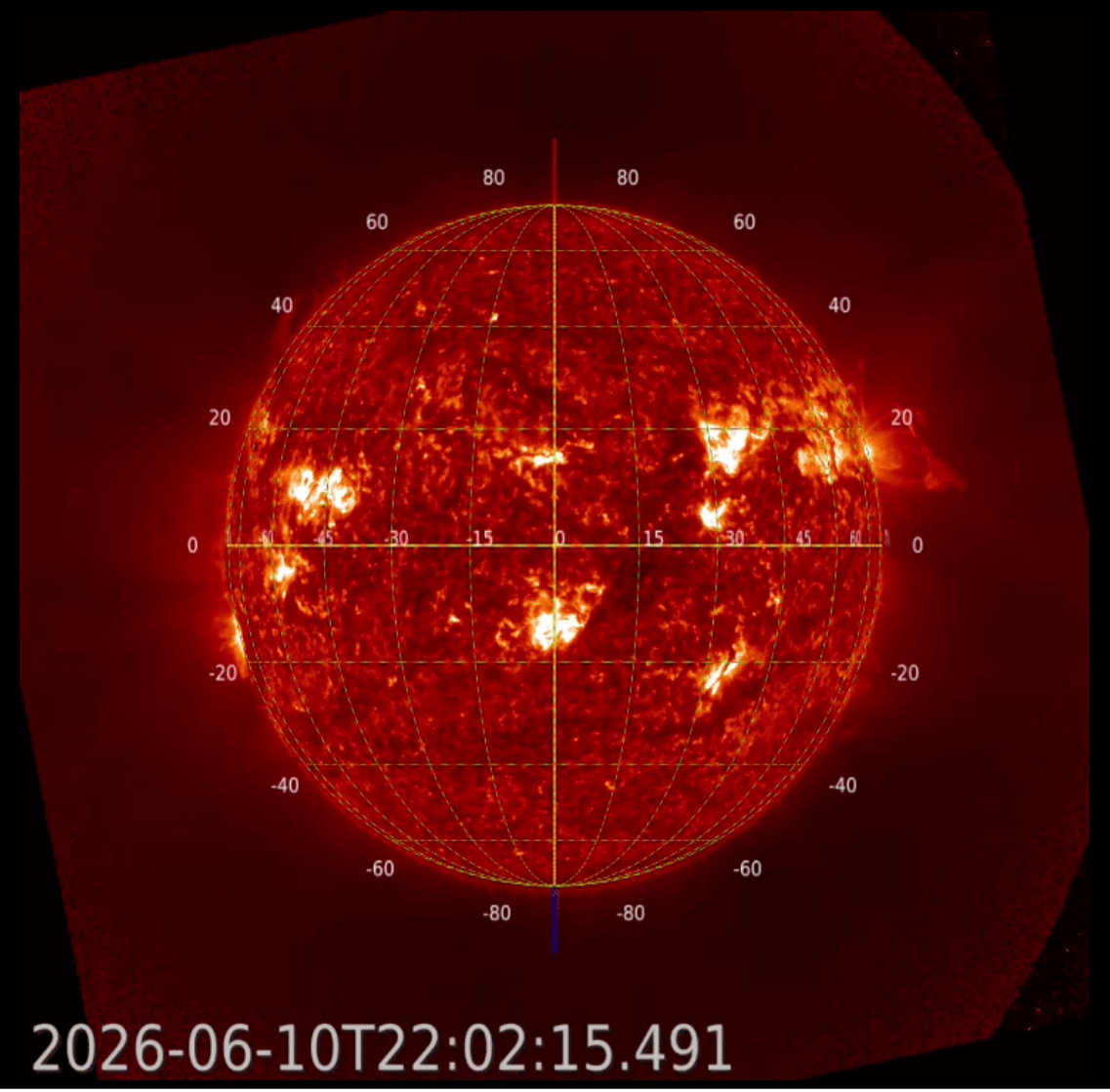


# Filaments

GOES/SUVI 30.4 nm 2026-06-09

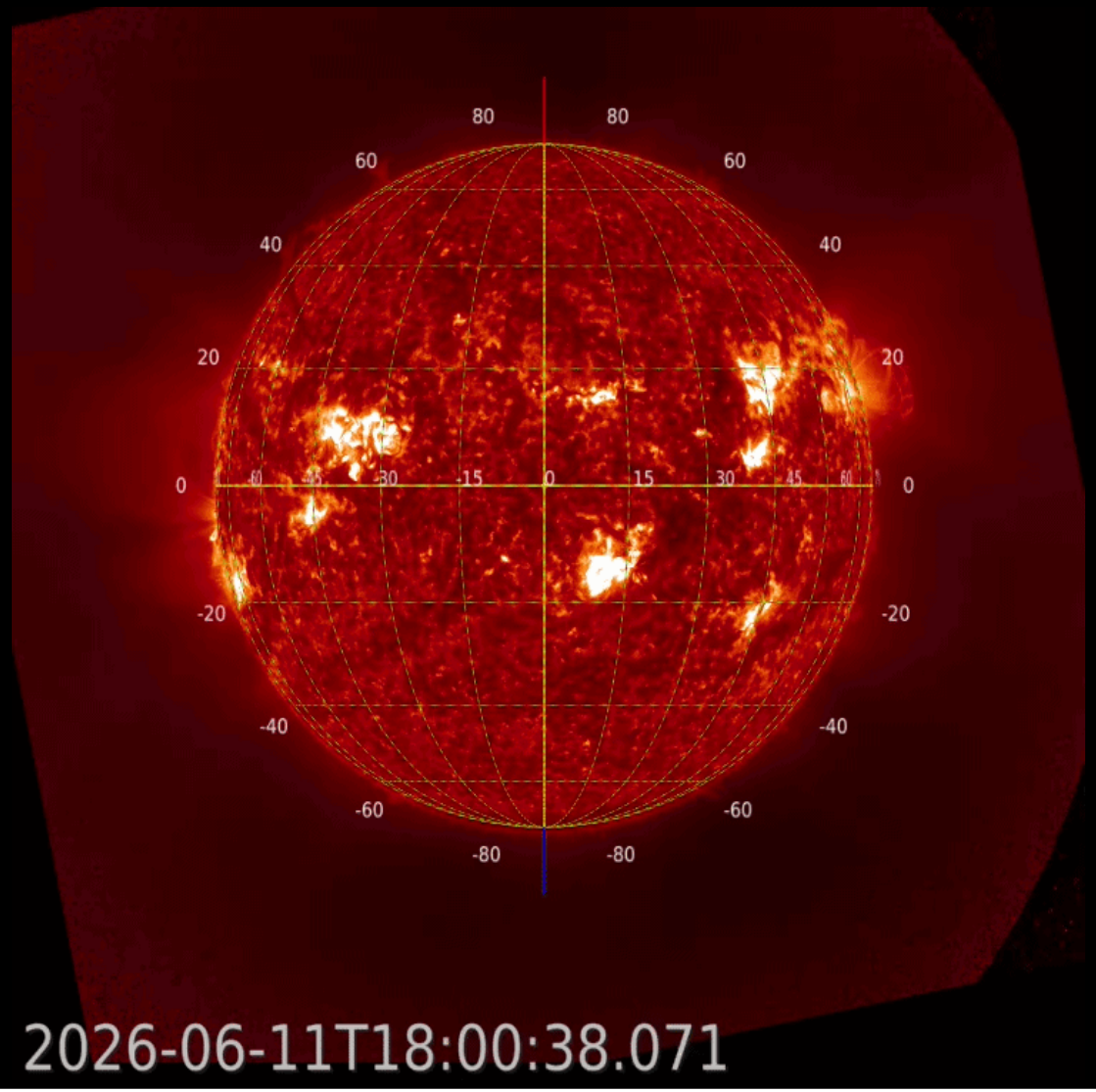



GOES/SUVI 30.4 nm 2026-06-10

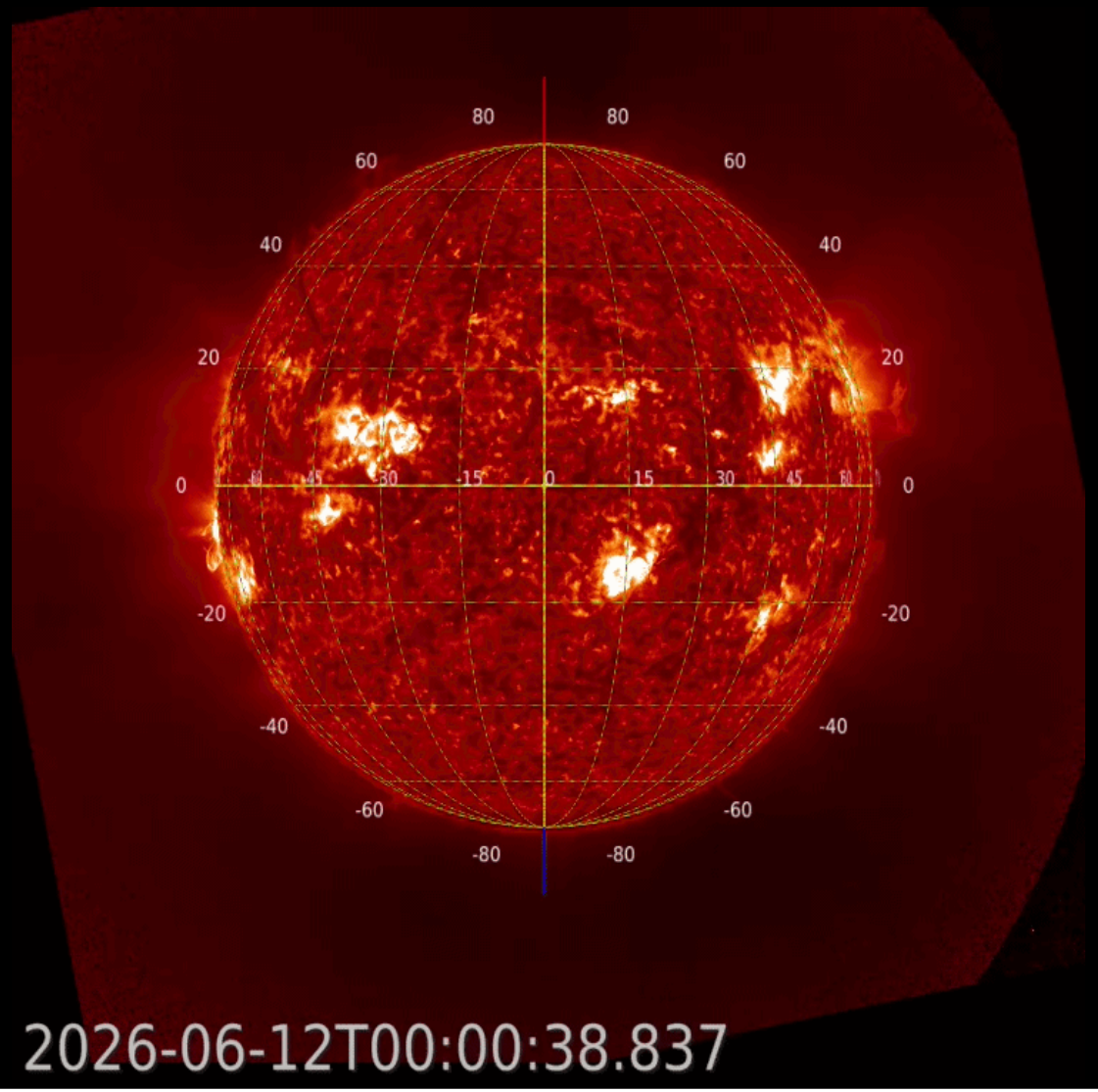


# Filaments

GOES/SUVI 30.4 nm 2026-06-11

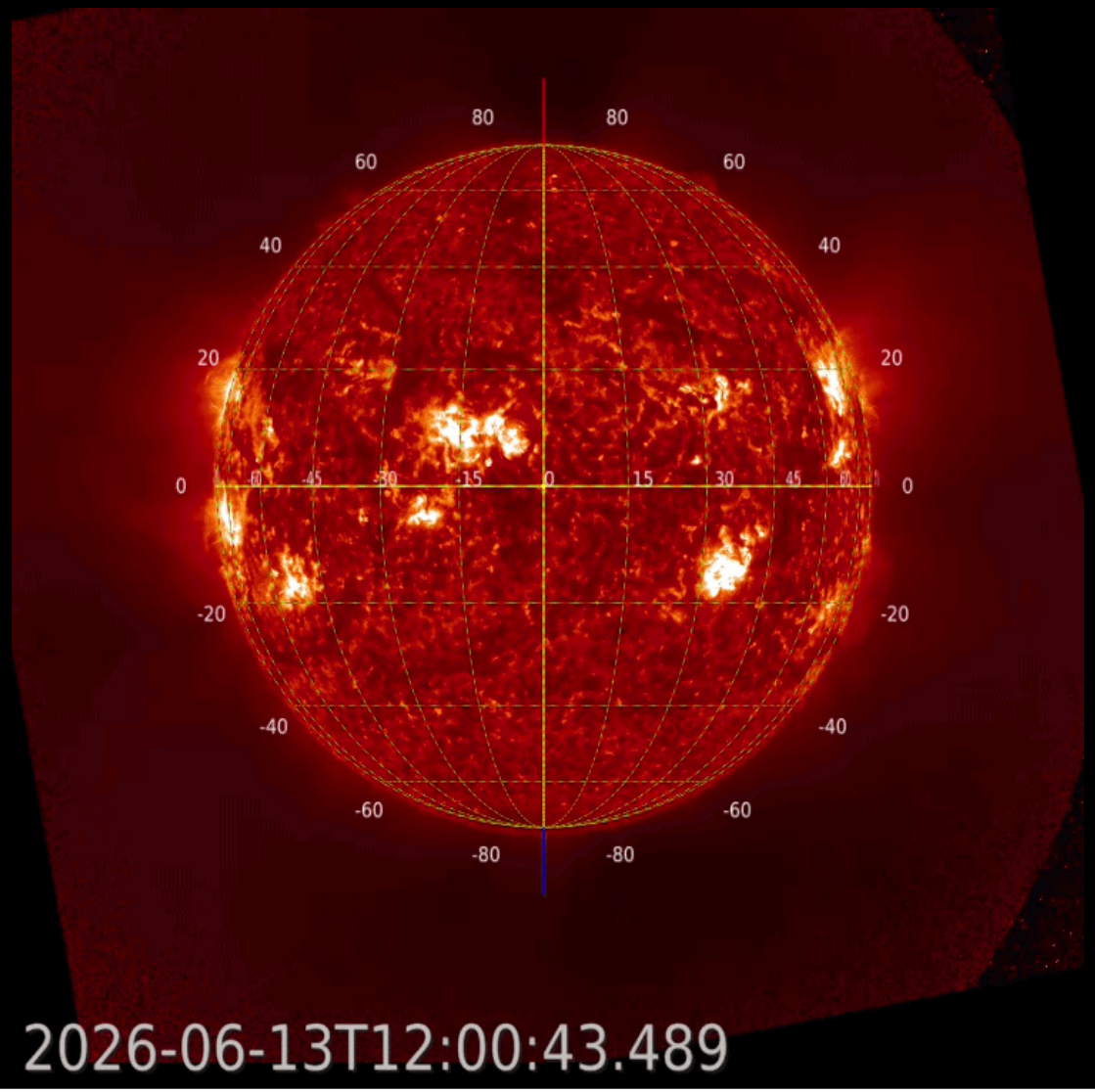



GOES/SUVI 30.4 nm 2026-06-12

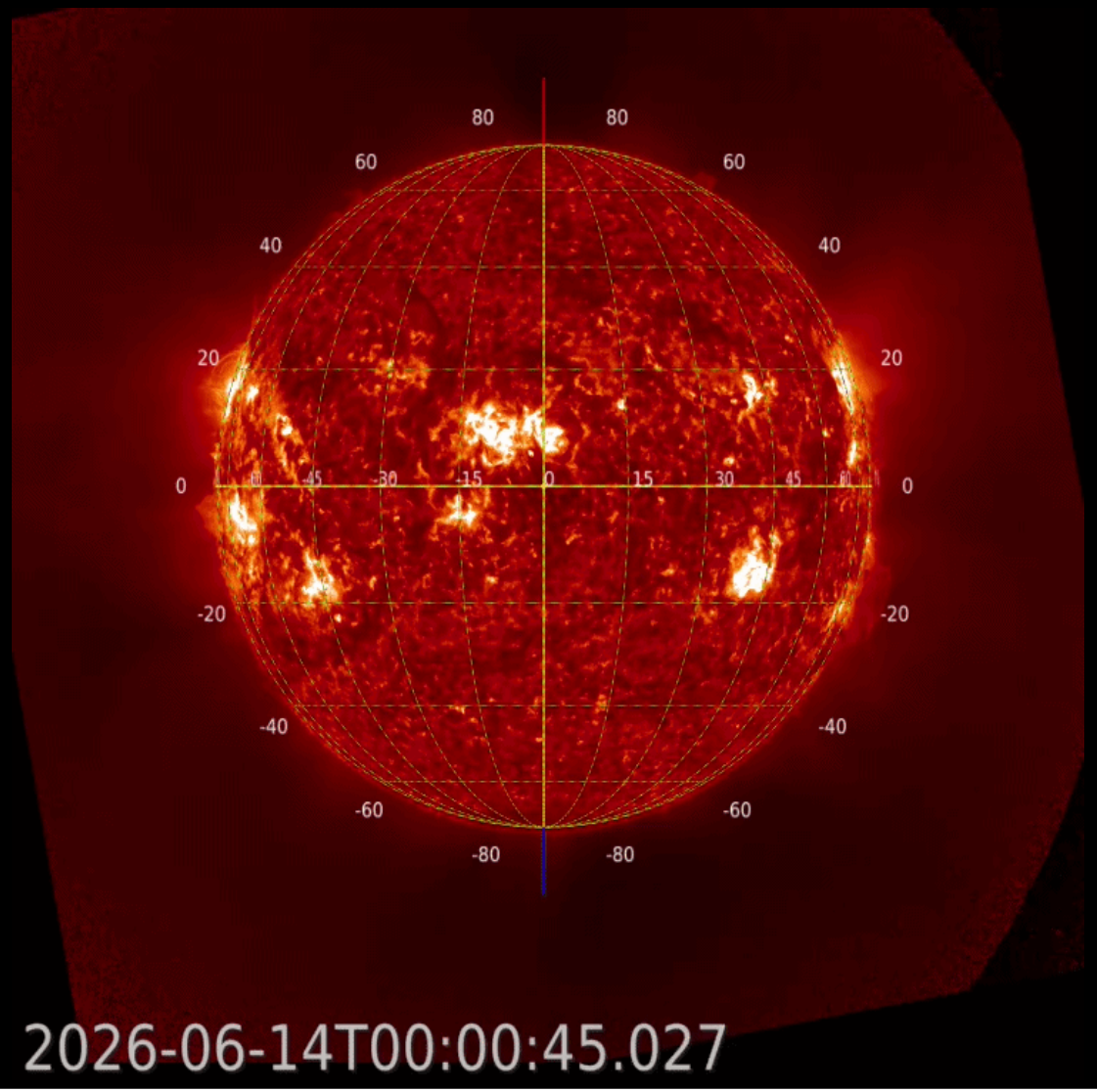


# Filaments

GOES/SUVI 30.4 nm 2026-06-13

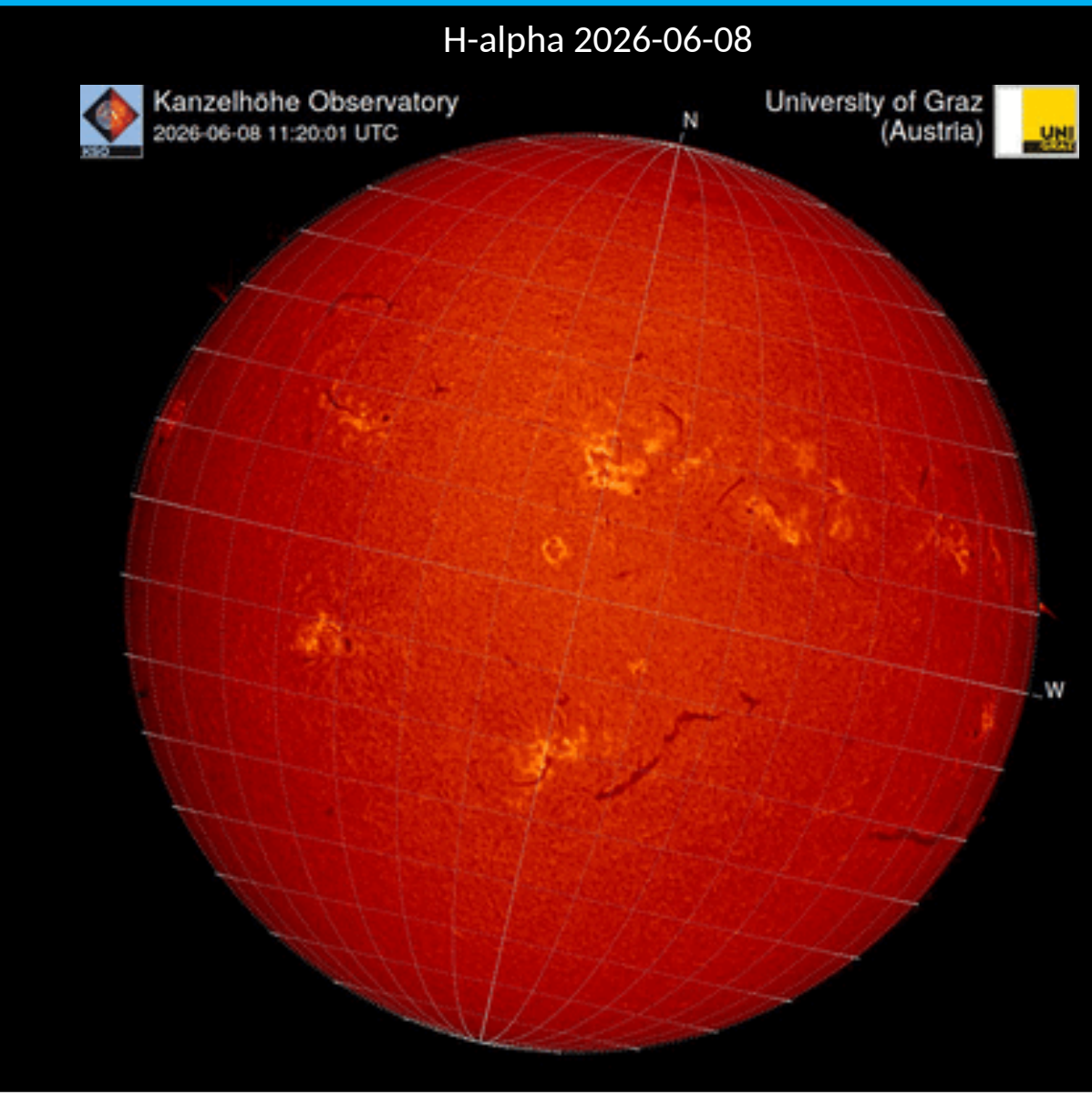



GOES/SUVI 30.4 nm 2026-06-14

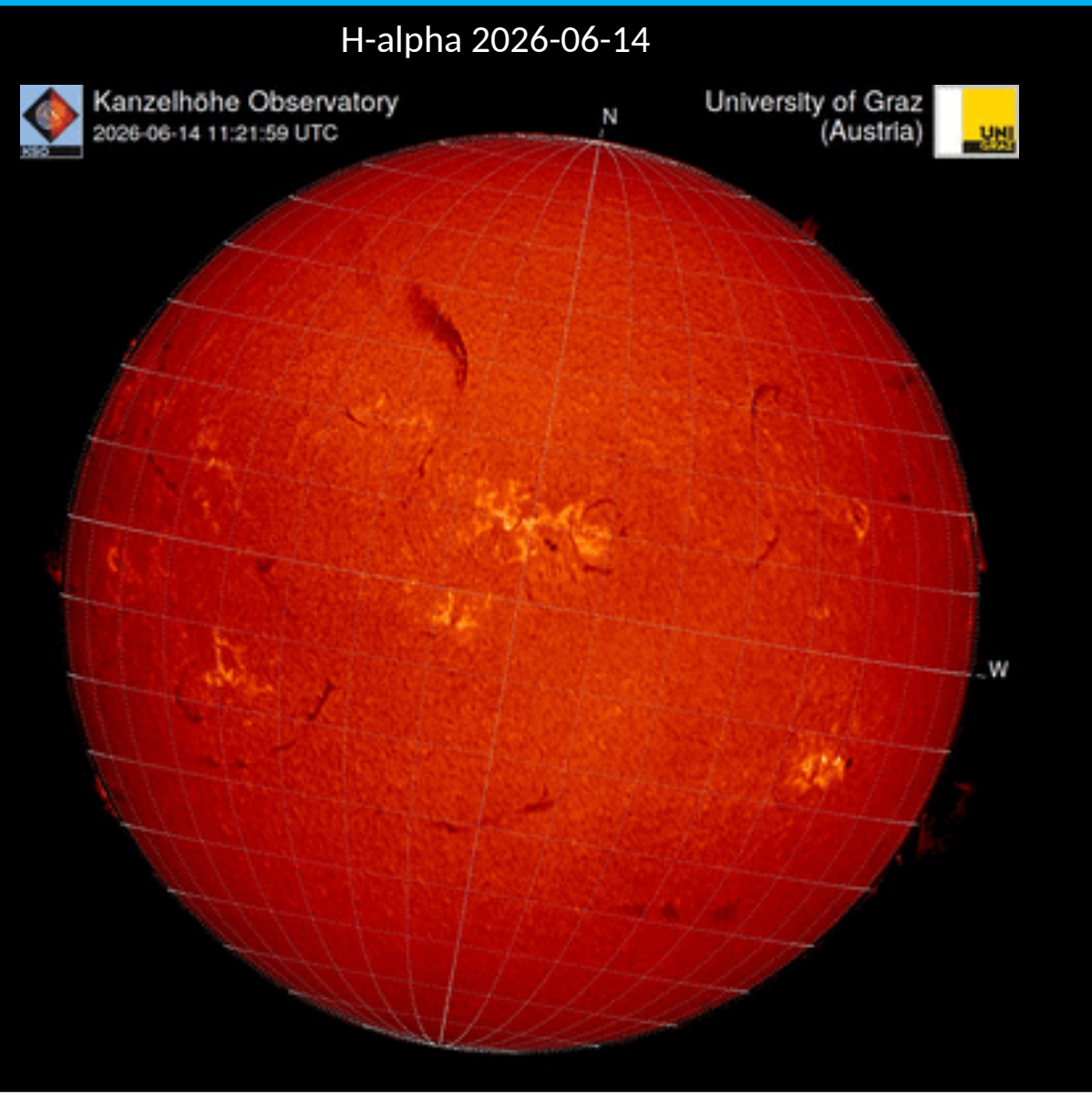


# Filaments & Filament eruptions

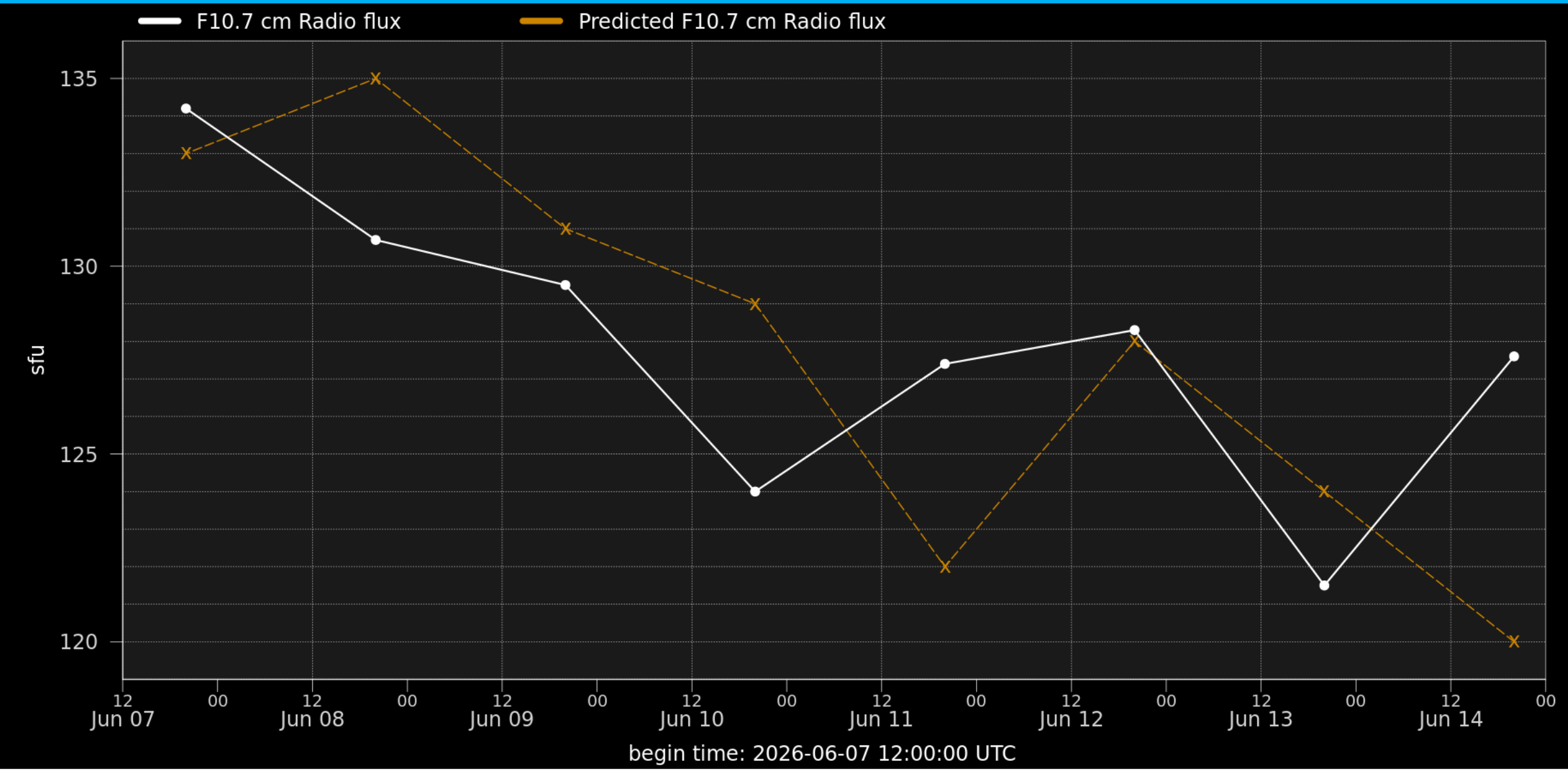
H-alpha 2026-06-08



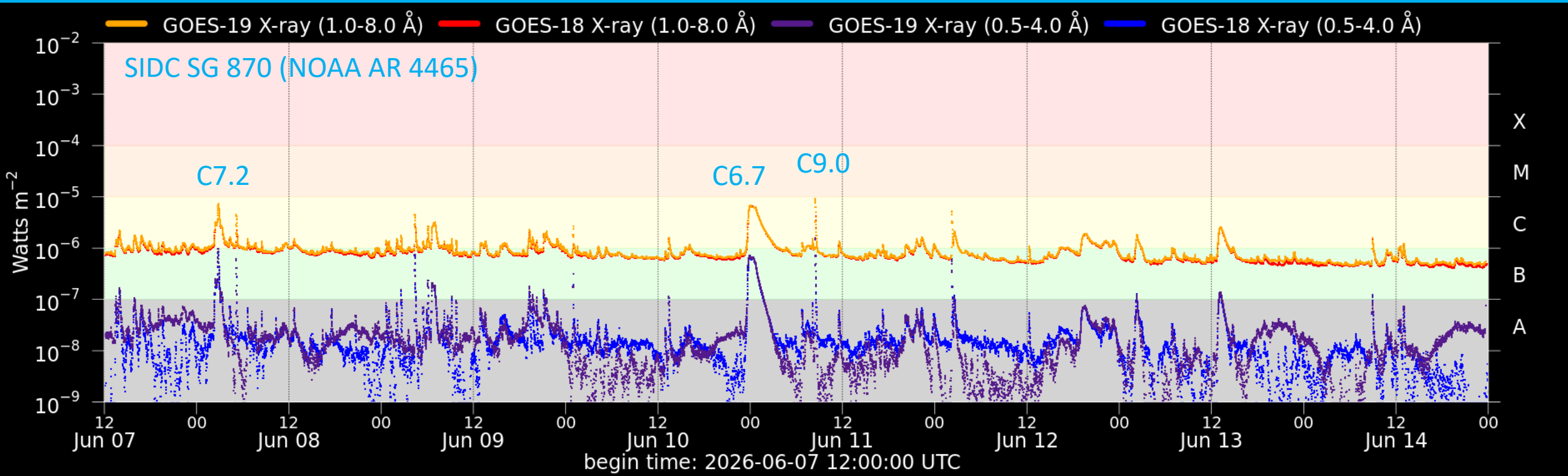

H-alpha 2026-06-14



# Solar F10.7cm radio flux



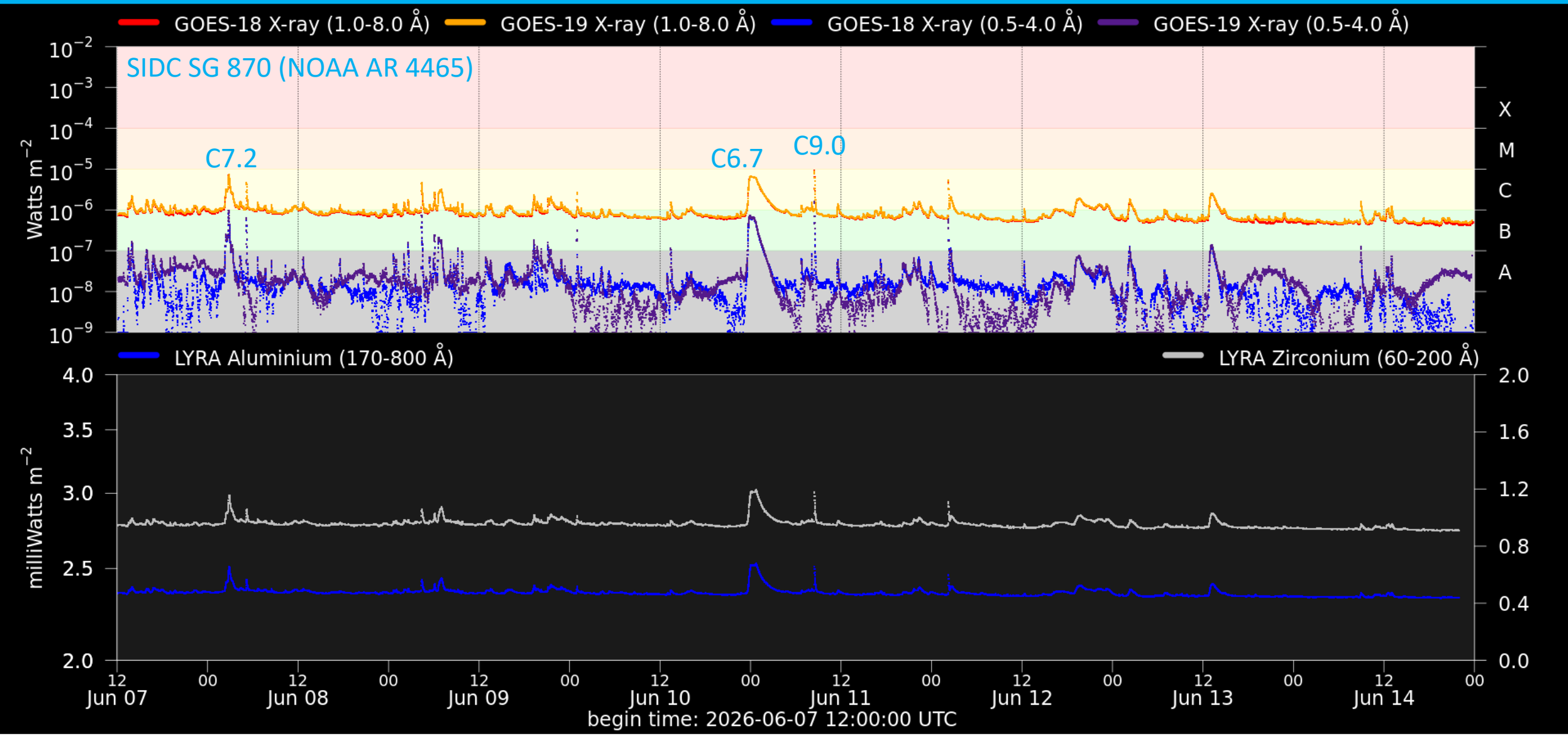
# Flaring activity



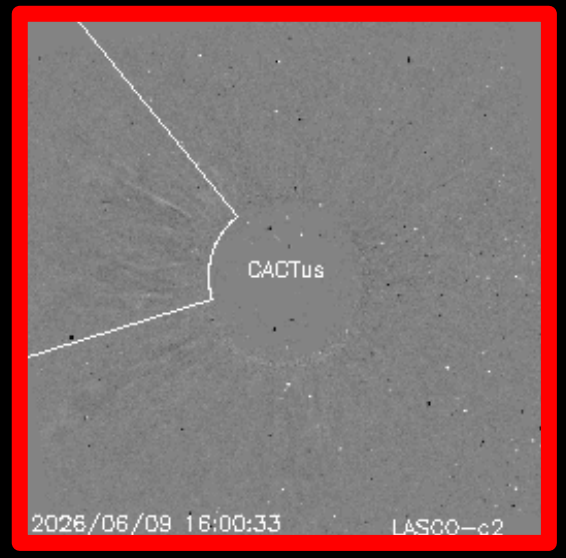

Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

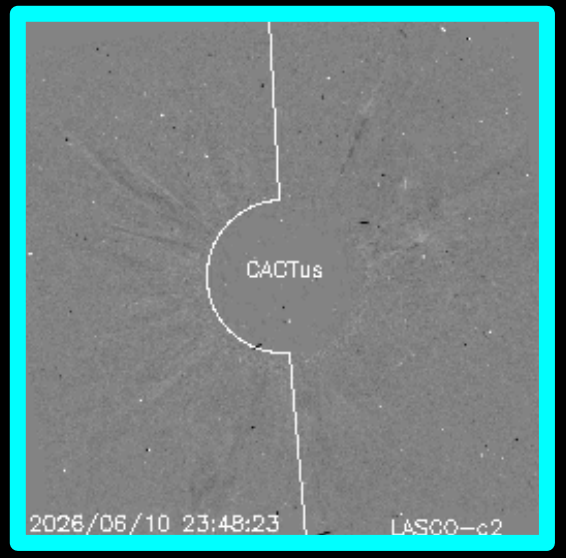
| Issue date | 2026-06-07 | 2026-06-08 | 2026-06-09 | 2026-06-10 | 2026-06-11 | 2026-06-12 | 2026-06-13 | 2026-06-14 |
|---|---|---|---|---|---|---|---|---|
| Probability (%) | 99\|63\|02 | 99\|55\|05 | 99\|60\|05 | 99\|40\|05 | 95\|35\|05 | 95\|30\|05 | 90\|15\|05 | 80\|15\|01 |
| Observed (#) | 15\|00\|00 | 14\|00\|00 | 09\|00\|00 | 09\|00\|00 | 04\|00\|00 | 03\|00\|00 | 02\|00\|00 | 03\|00\|00 |

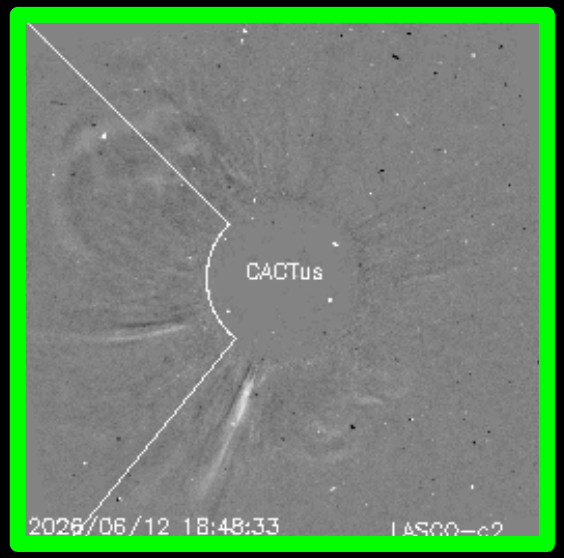
# Solar X-Ray and UV flux

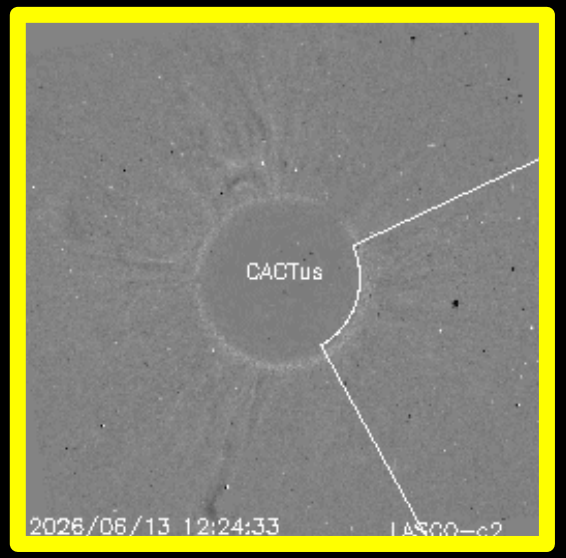


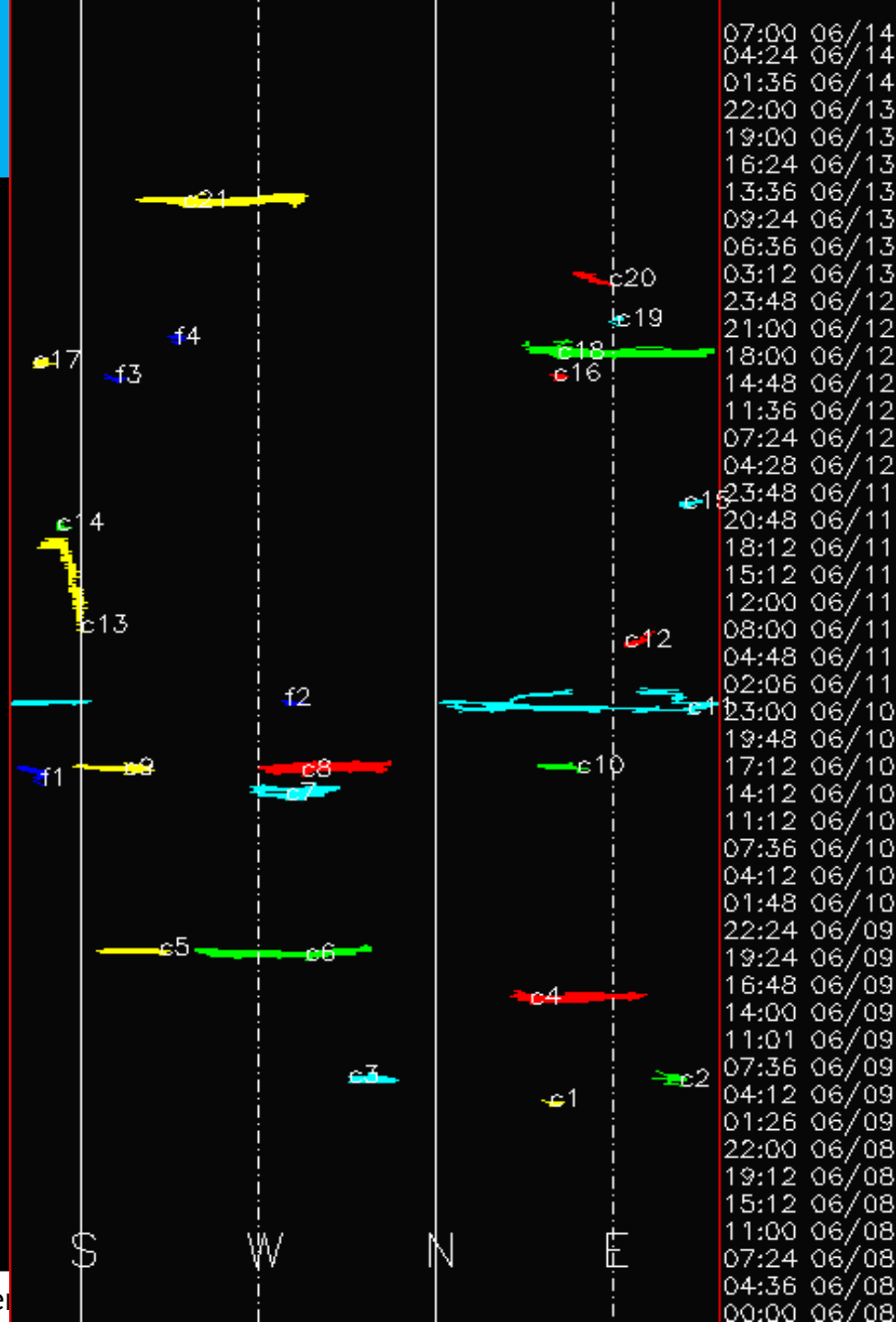
# Coronal Mass Ejections



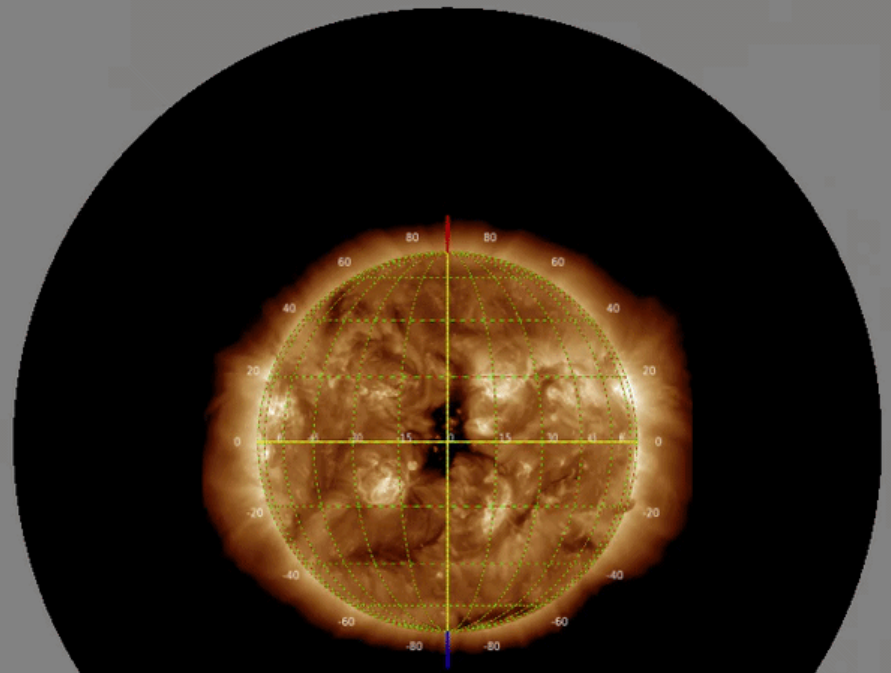



# Coronal Mass Ejections June 09:

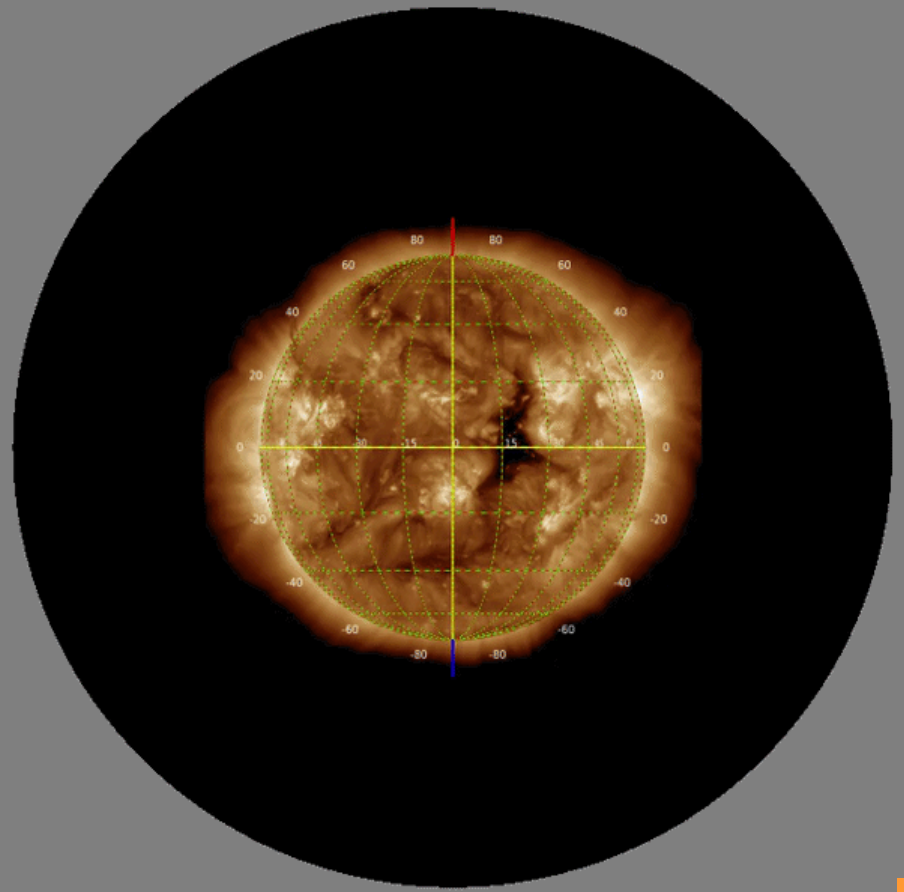


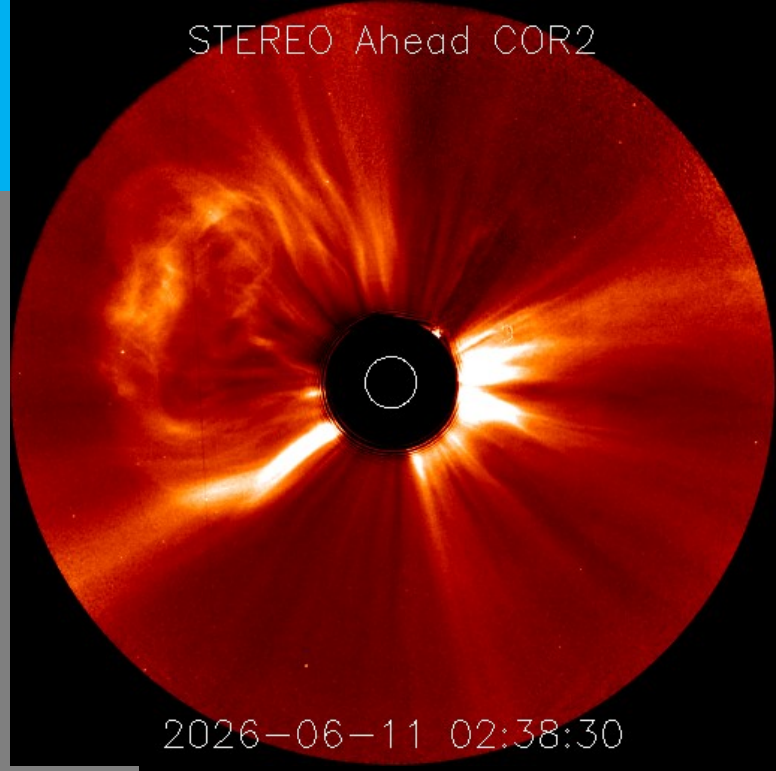
**SIDC CME 673**
**When**: 16:36 UTC on June 09
Associated with a filament observed from around 15:00 UTC on June 9 in the vicinity of SIDC SG 825 (NOAA AR 4463)
Prediction: glancing blow arrival 2026-06-13 22:00

2026-06-09T14:00:28.842

SIDC CME 674
**When**: 21:36 UTC on June 09
Associated with GOES C2.3 flare (SIDC Flare 7918) produced by SIDC SG 889 (NOAA AR 4461).
Overlaps in coronagraph imagery with a far-sided CME first observed 21:12 UTC.
Prediction: not expected to arrive

# Coronal Mass Ejections June 11:

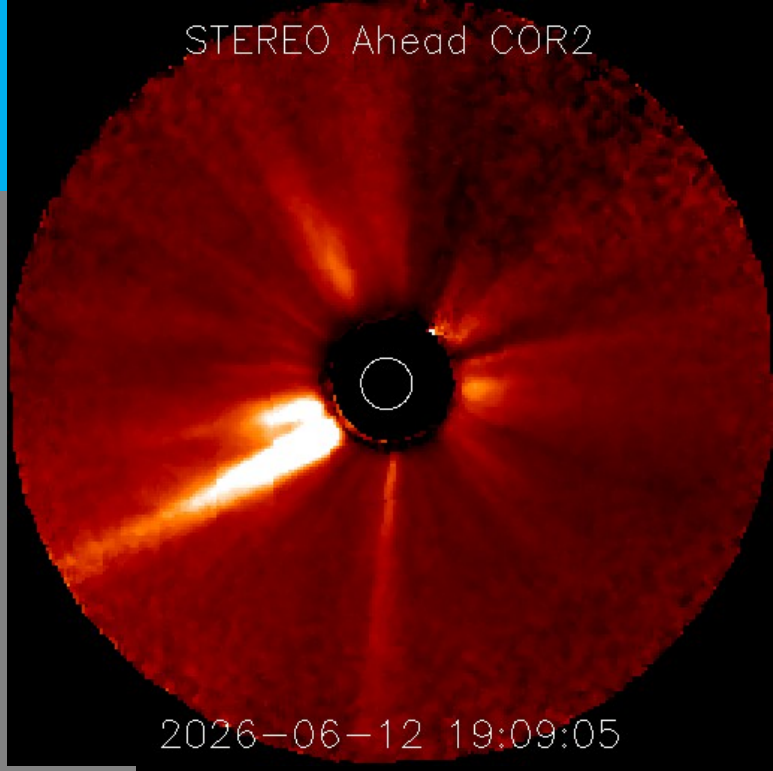


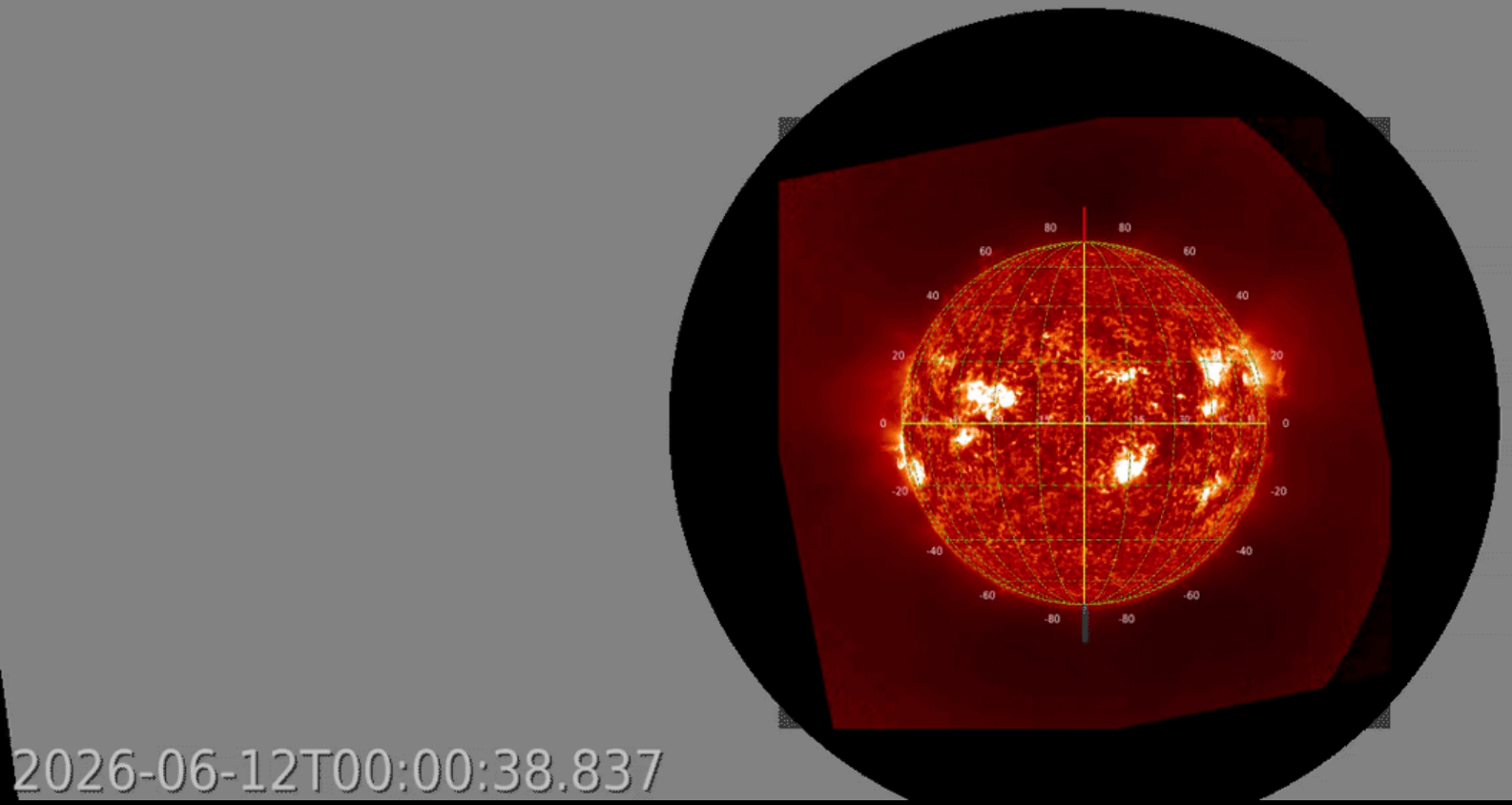




**SIDC CME 675**
**When**: 00:36 UTC on June 11
Associated with a C6.7 flare (SIDC Flare 7923), produced by SIDC SG 870 (NOAA AR 4465), Type II and Type IV radio emissions detected at 00:13 UTC and 00:28 UTC on June 11

Prediction: 2026-06-13T16:13
Actual Shock Arrival Time: 2026-06-13T09:51

# Coronal Mass Ejections June 12:




**SIDC CME 676**
**When**: 16:36 UTC on June 12
Associated with a filament eruption observed from around 16:05 UTC on June 12 near N00E35
Prediction: 2026-06-15T00:00 UTC

Solar Wind and

# Geomagnetic Activity

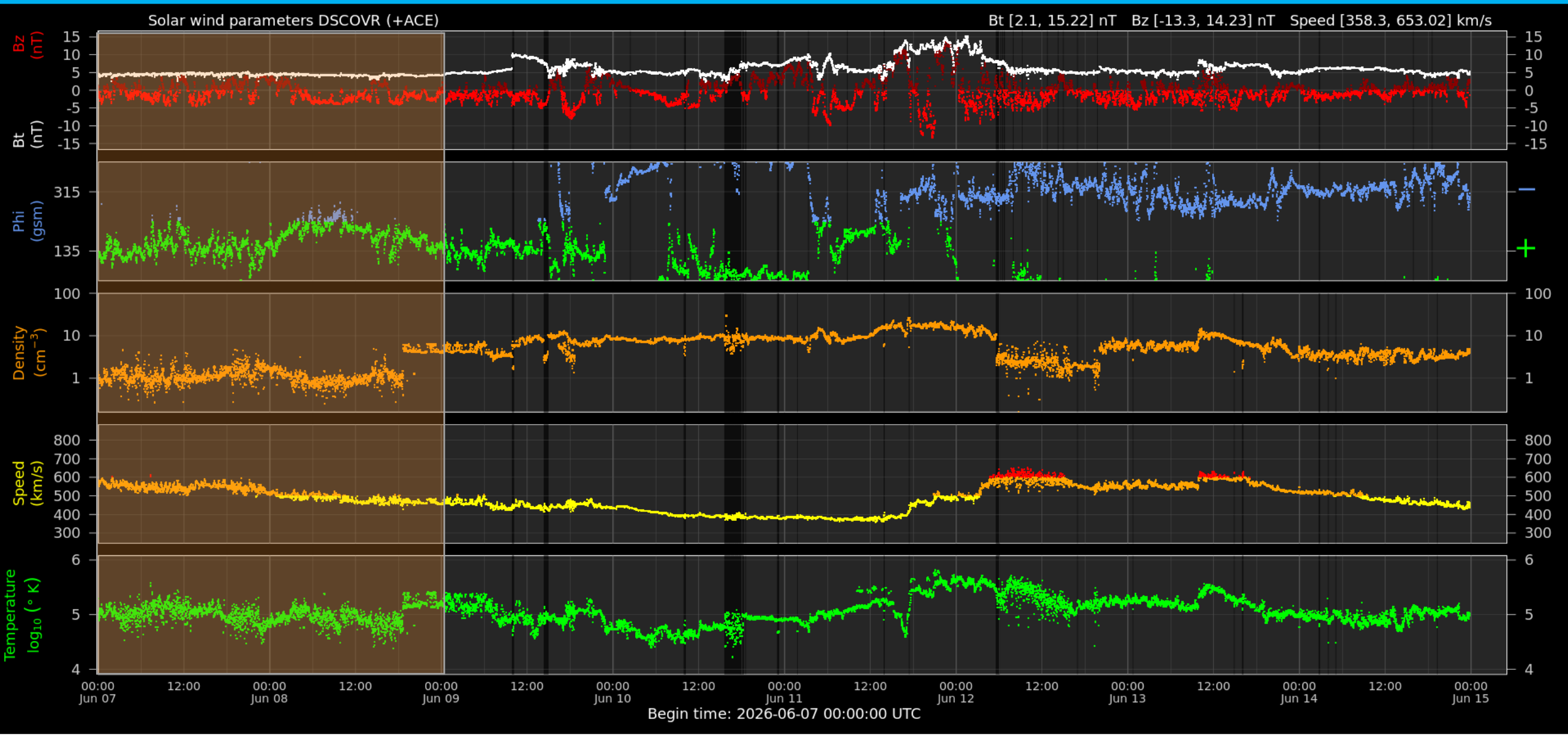


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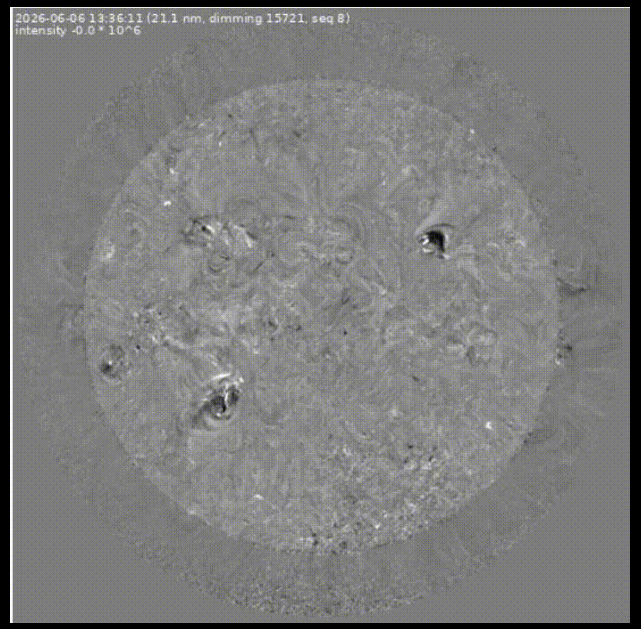
# Solar wind parameters

## ICME + HSS



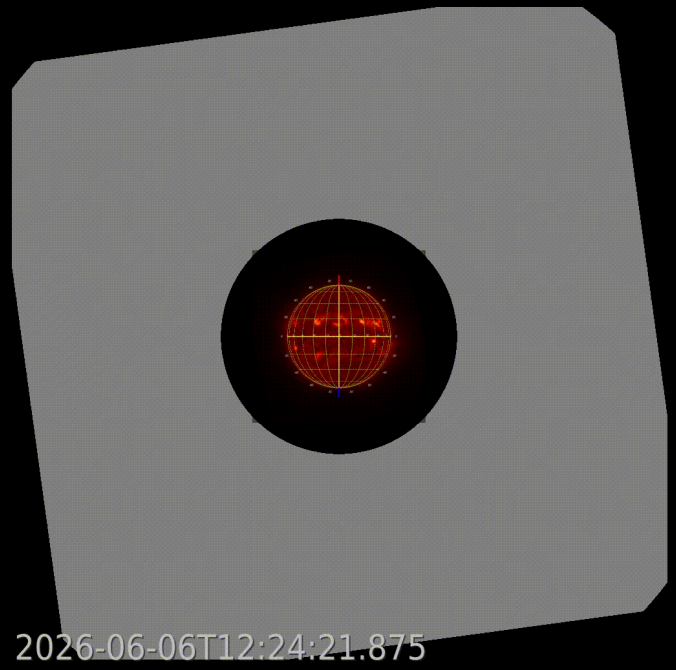
# Coronal Mass Ejections CME 4 June 06:

Solar Demon Dimming SDO/AIA



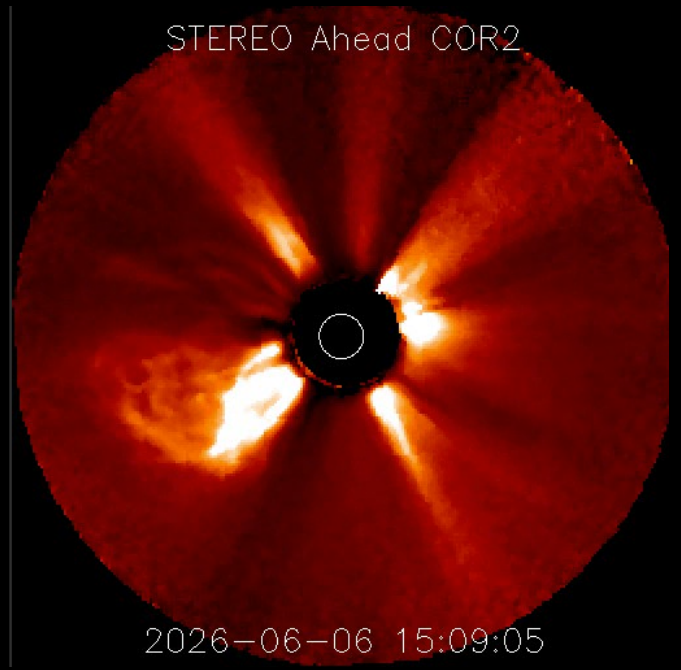

- M1.8 flare, peak time June 06 at 14:01 UTC,
- Filament near SIDC Sunspot Group 889 (NOAA Active region 4461) in the south-east quadrant.
- Large dimming and Type II radio emission

SOHO/LASCO-C2




- A partial halo Coronal Mass Ejection to the south-east in SOHO LASCO-C2 from 14:01 UTC June 06.
- Speed estimated as 1350 km/s.

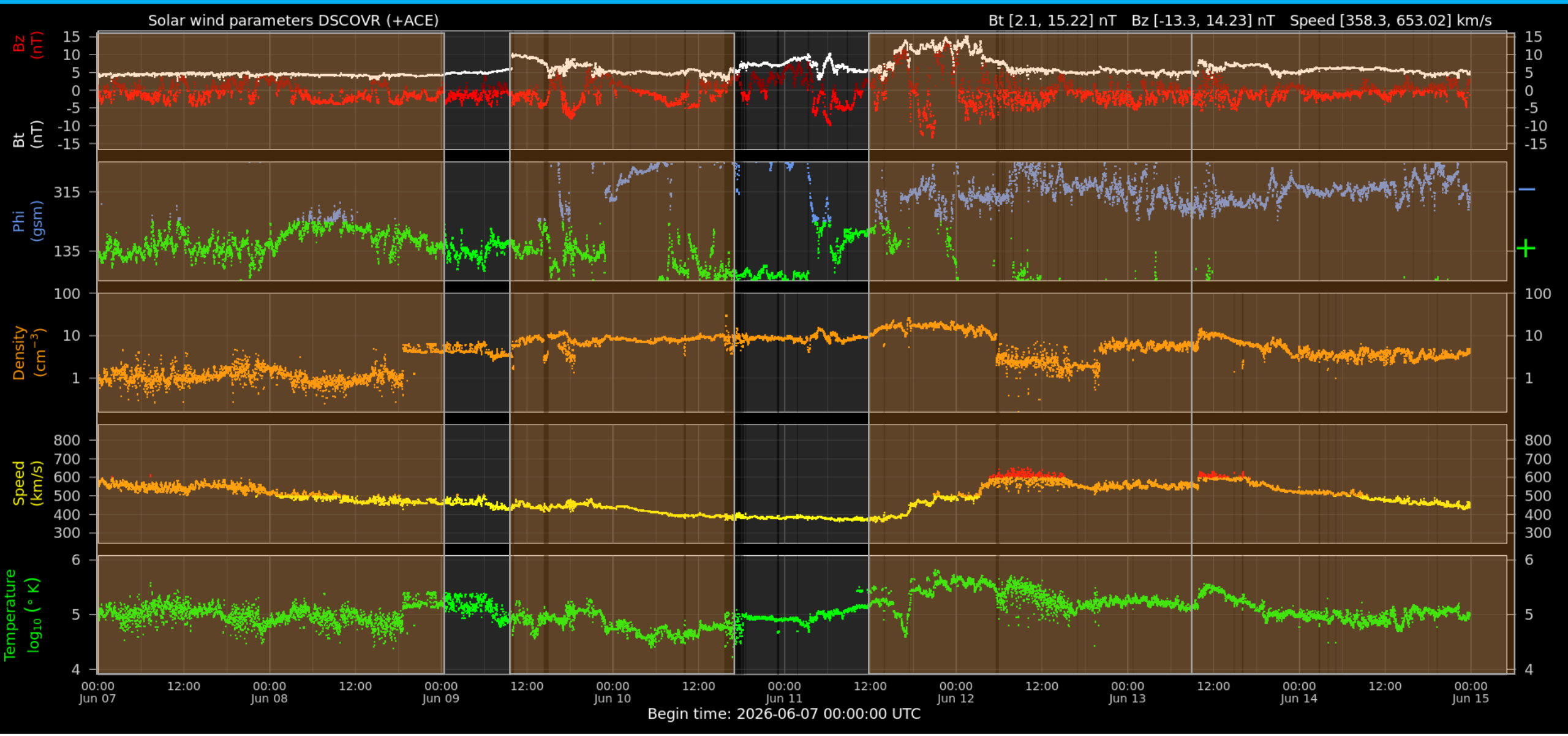
STEREO-A/COR2




- CME to the south-east in STEREO A.
- Predicted arrival time on June 08 (2026-06-06 14:00 UTC)
- Actual Shock Arrival Time:

# Solar wind parameters

ICME + HSS | ICME | HSS | ICME + HSS



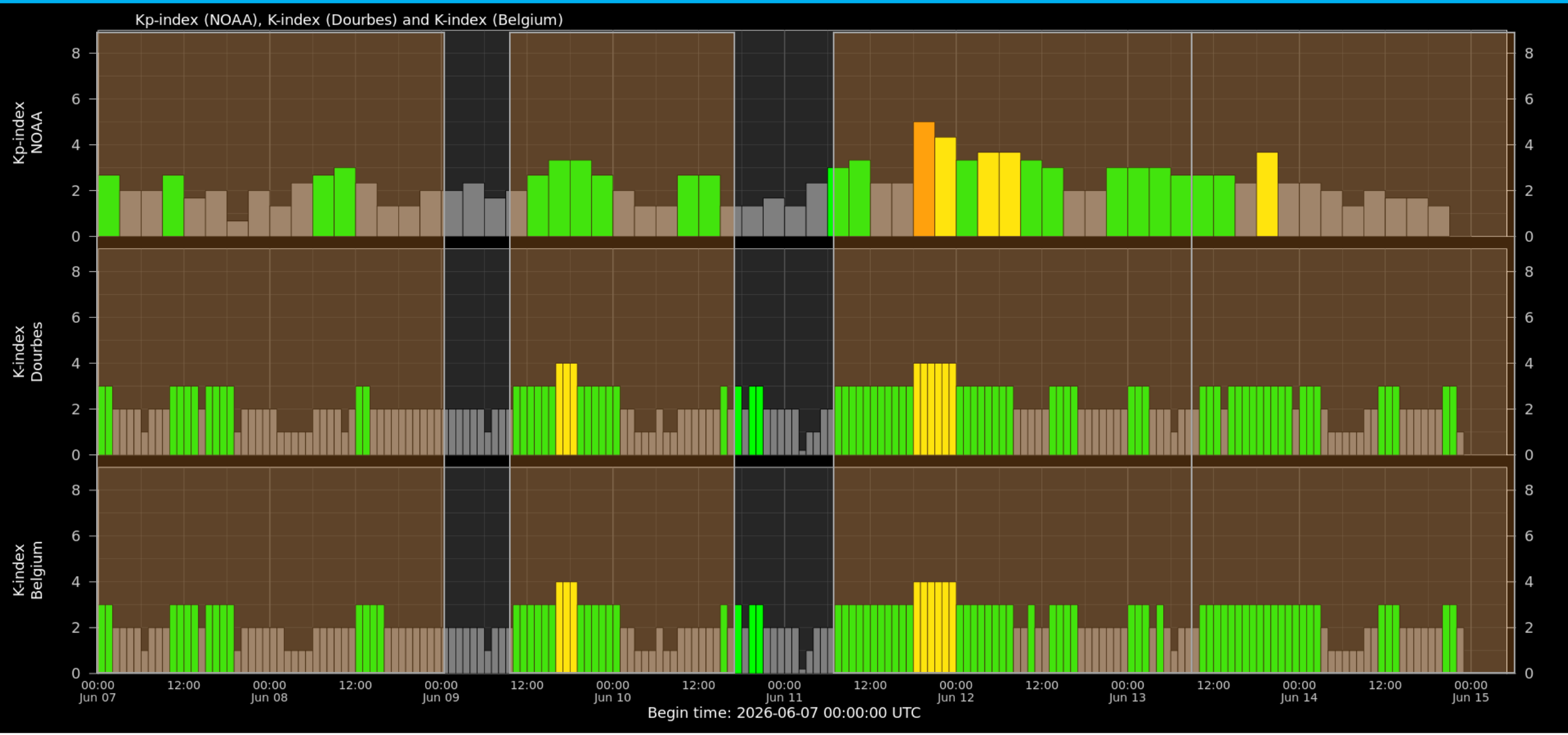
# Solar wind parameters & K-indices

ICME + HSS | ICME | HSS | ICME + HSS



# Geomagnetic activity (K-indexes)

ICME + HSS | ICME | HSS | ICME + HSS



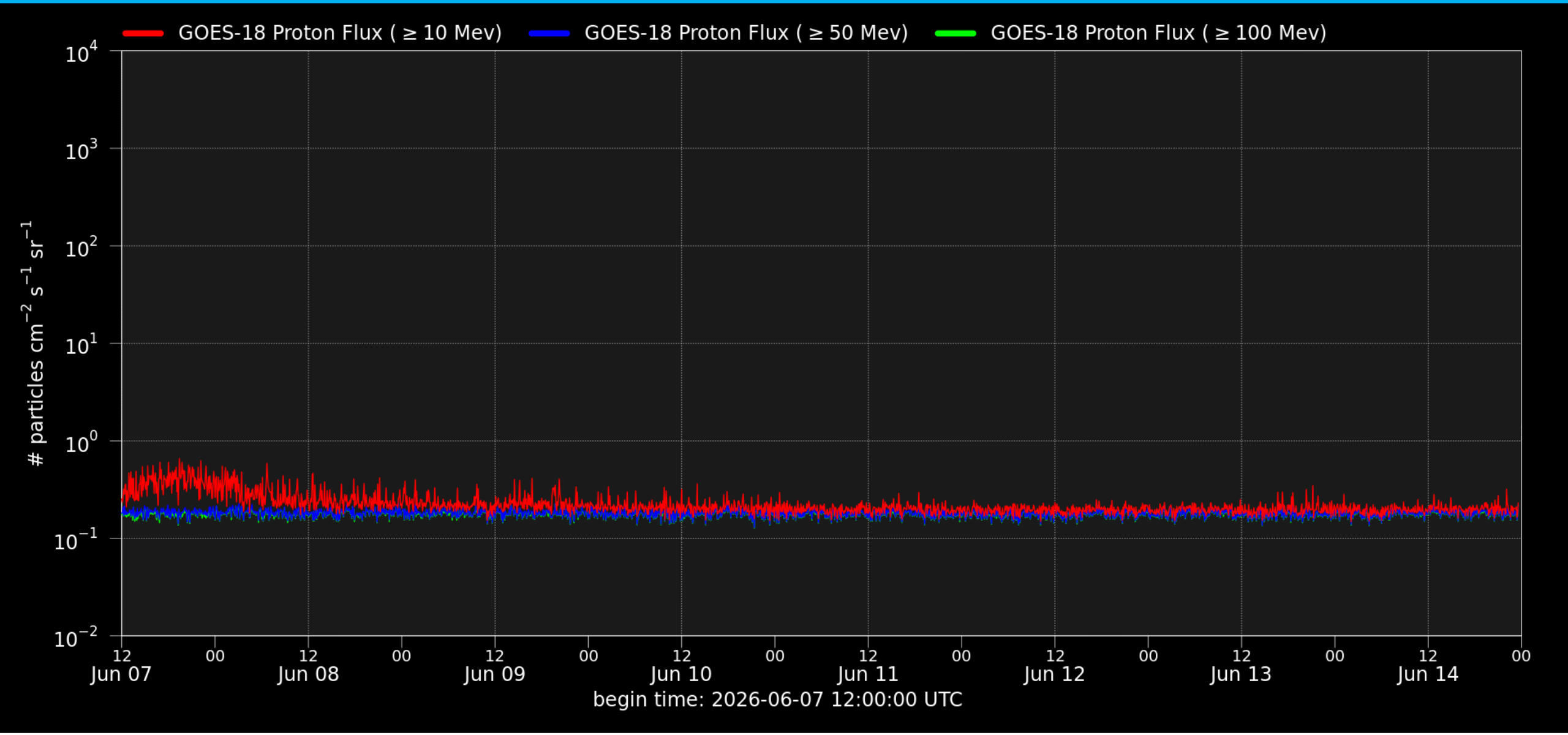
# Energetic Particles



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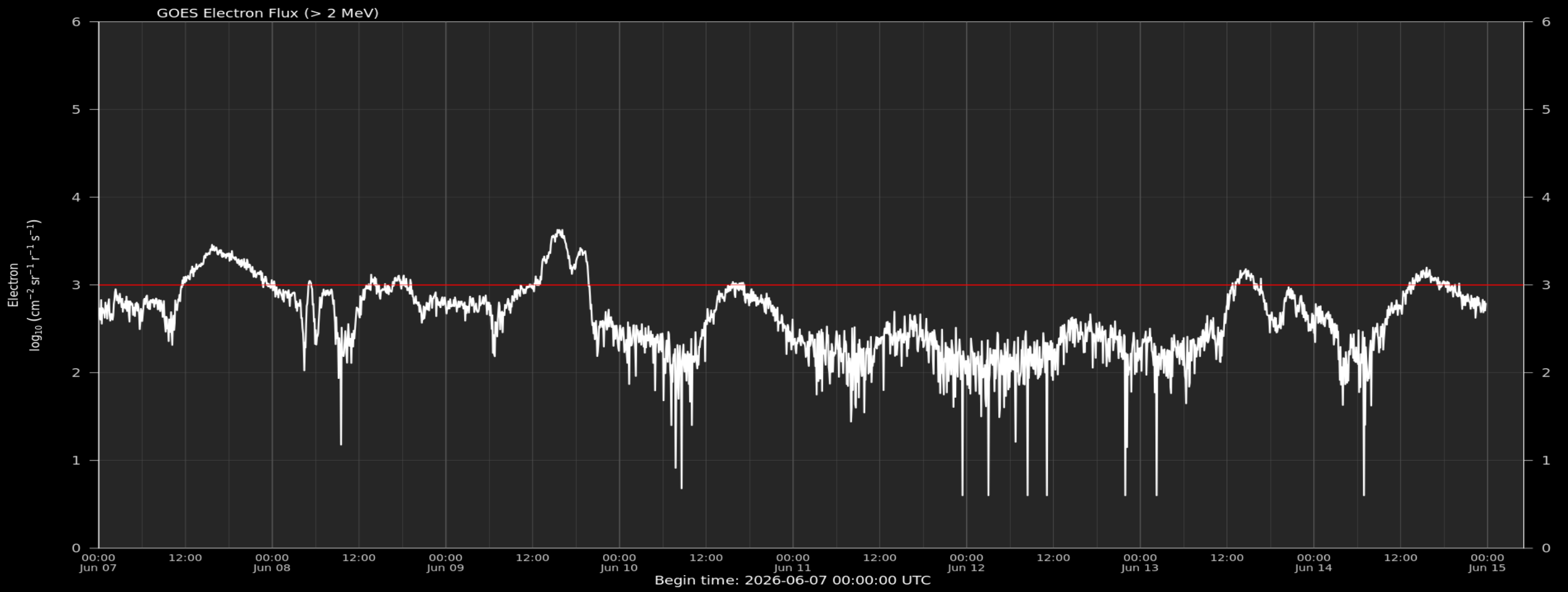
# Solar proton flux



# Electron flux at GEO

www.stce.be/educational/classification#electrons

www.spaceweather.gc.ca/forecast-prevision/space-spatiale/sffl-en.php

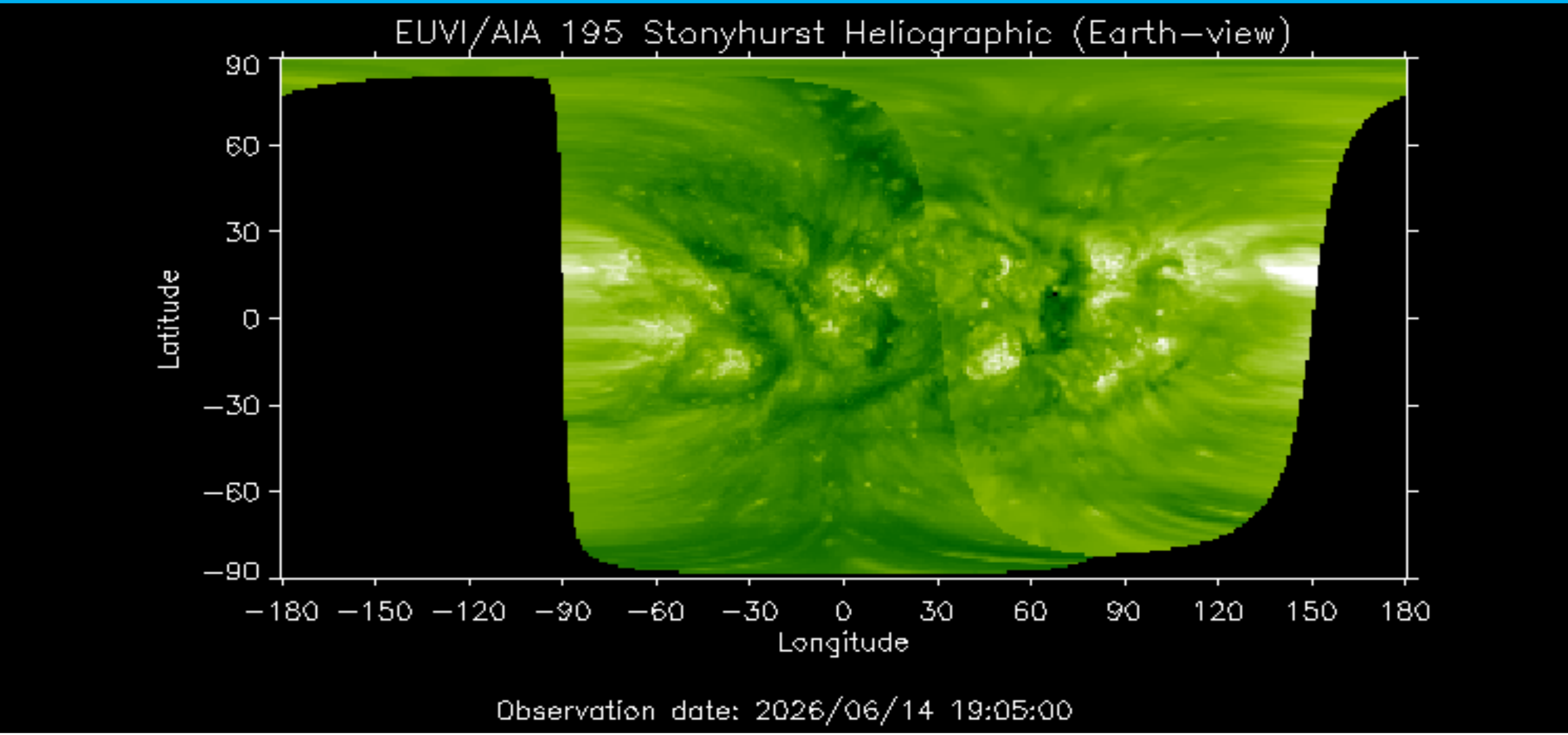


# Outlook

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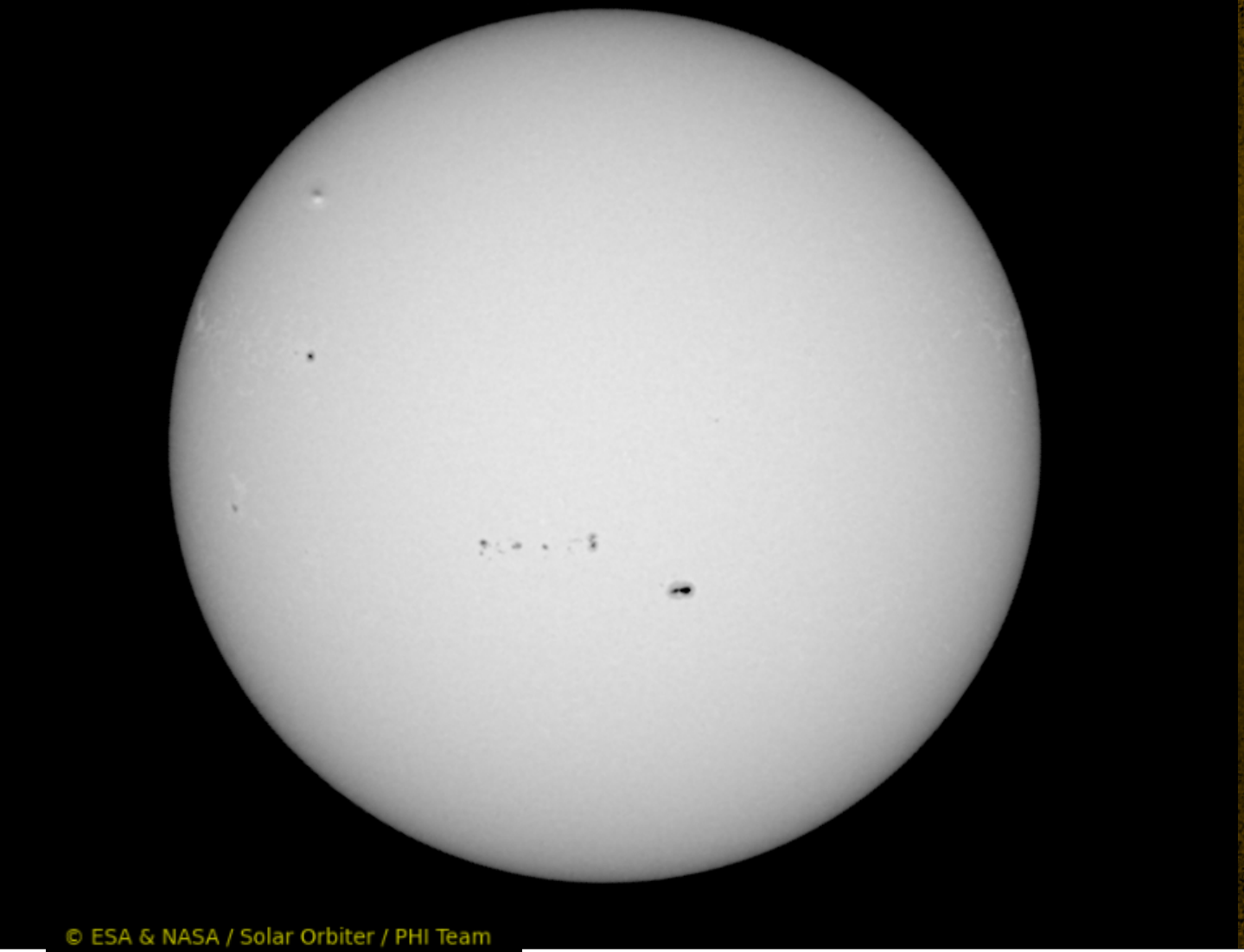
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# Outlook: Solar activity

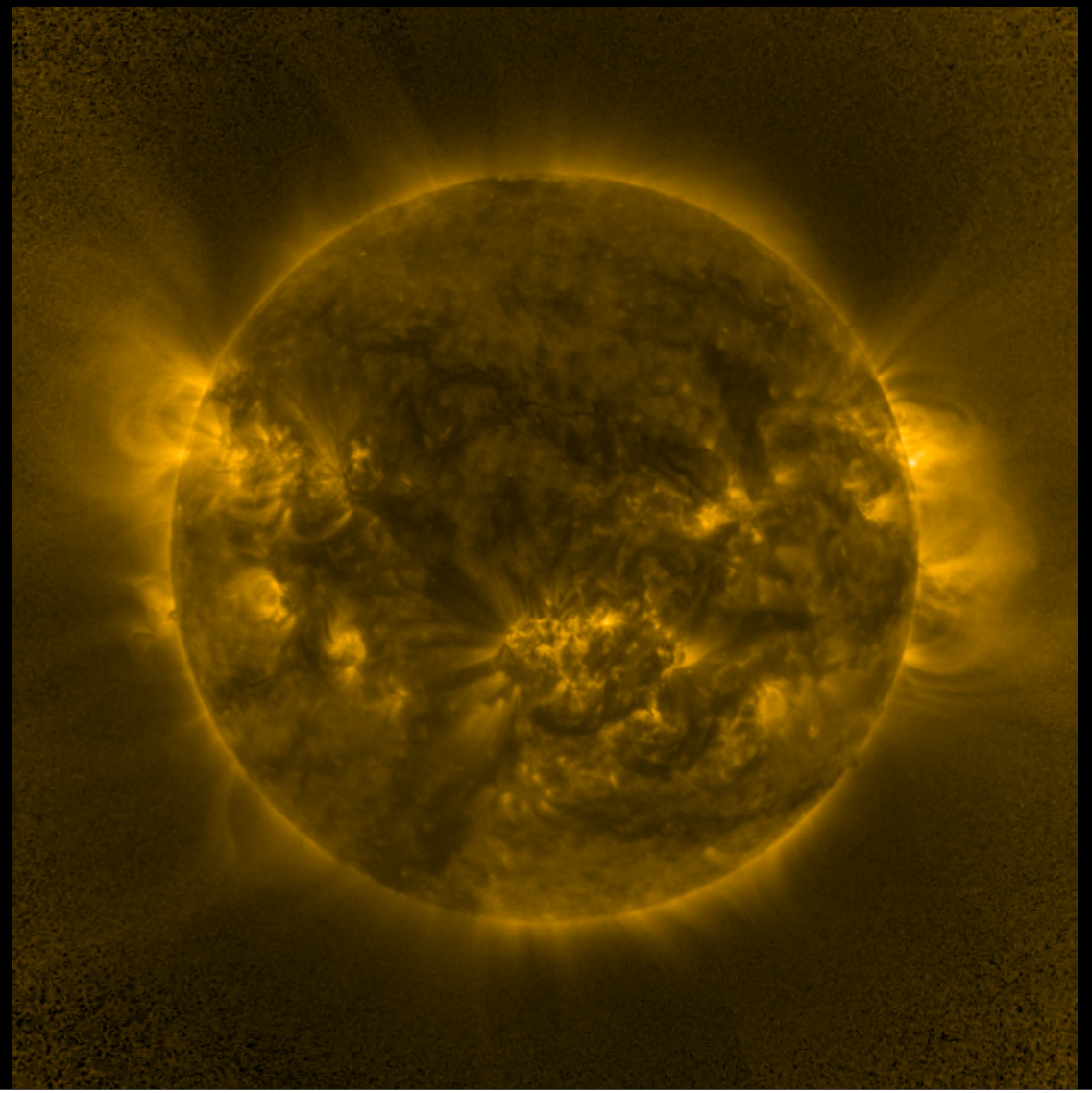


# Outlook: Solar activity

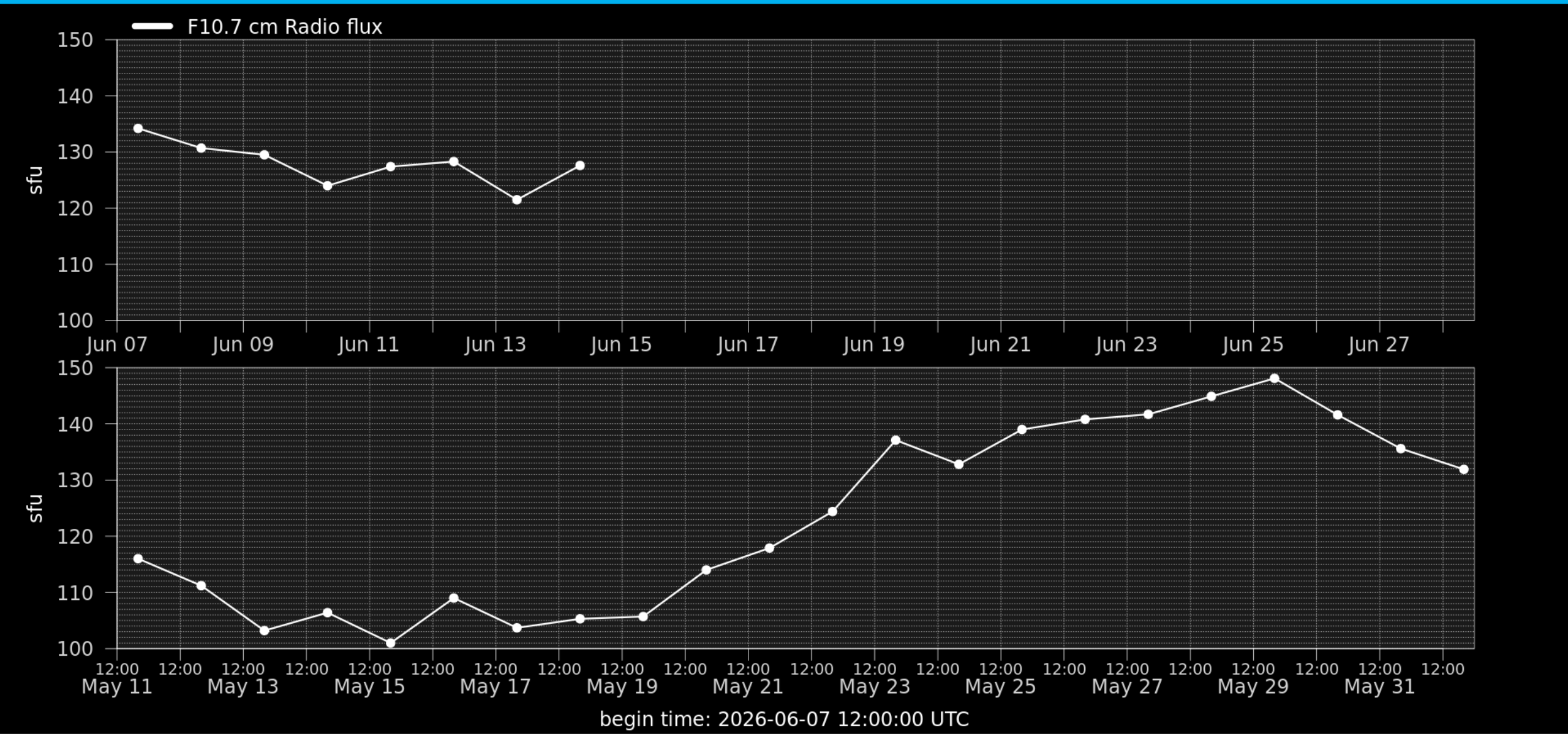
SolO/PHI FDT Continuum 2026-06-14



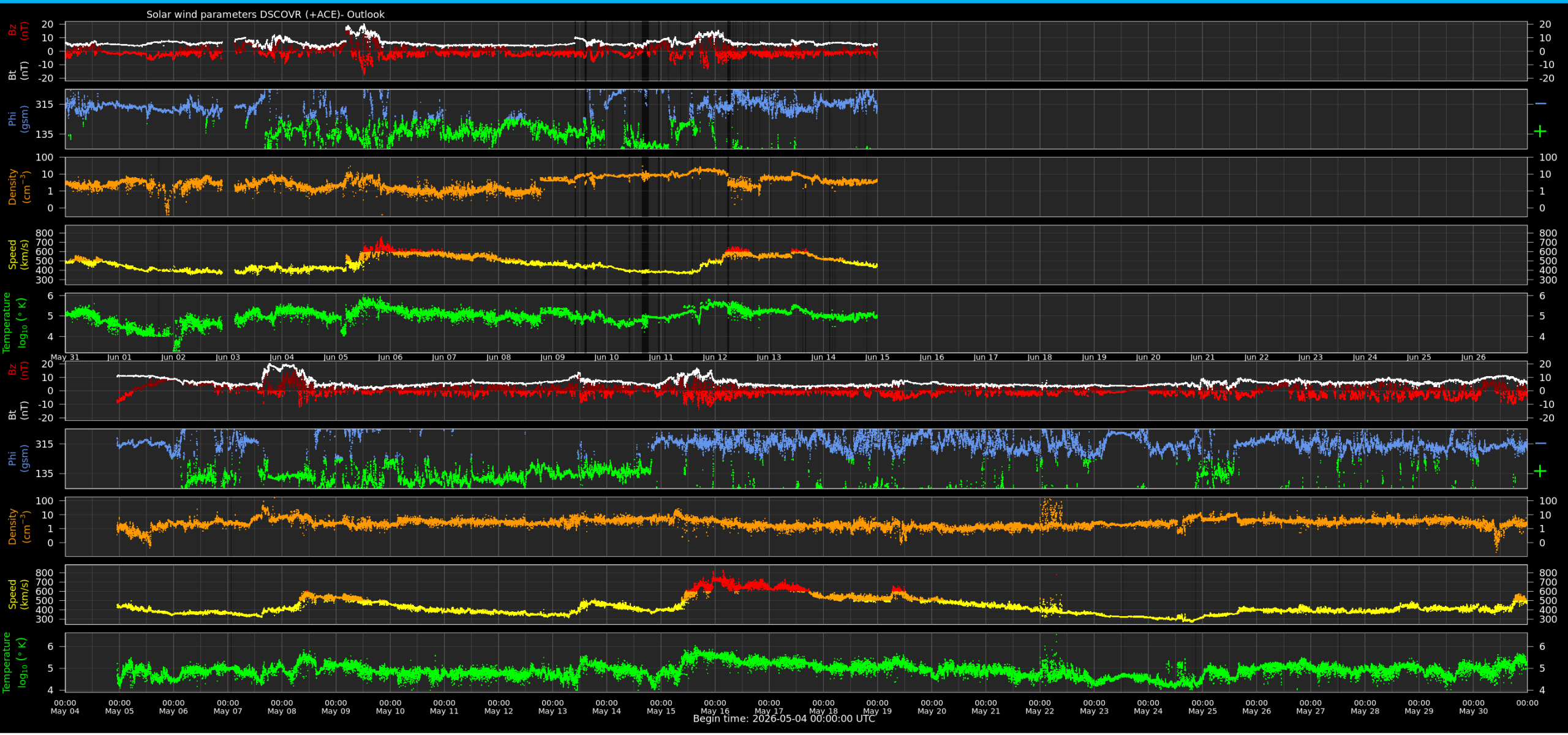

SolO/EUI FSI 17.4 nm 2026-06-15



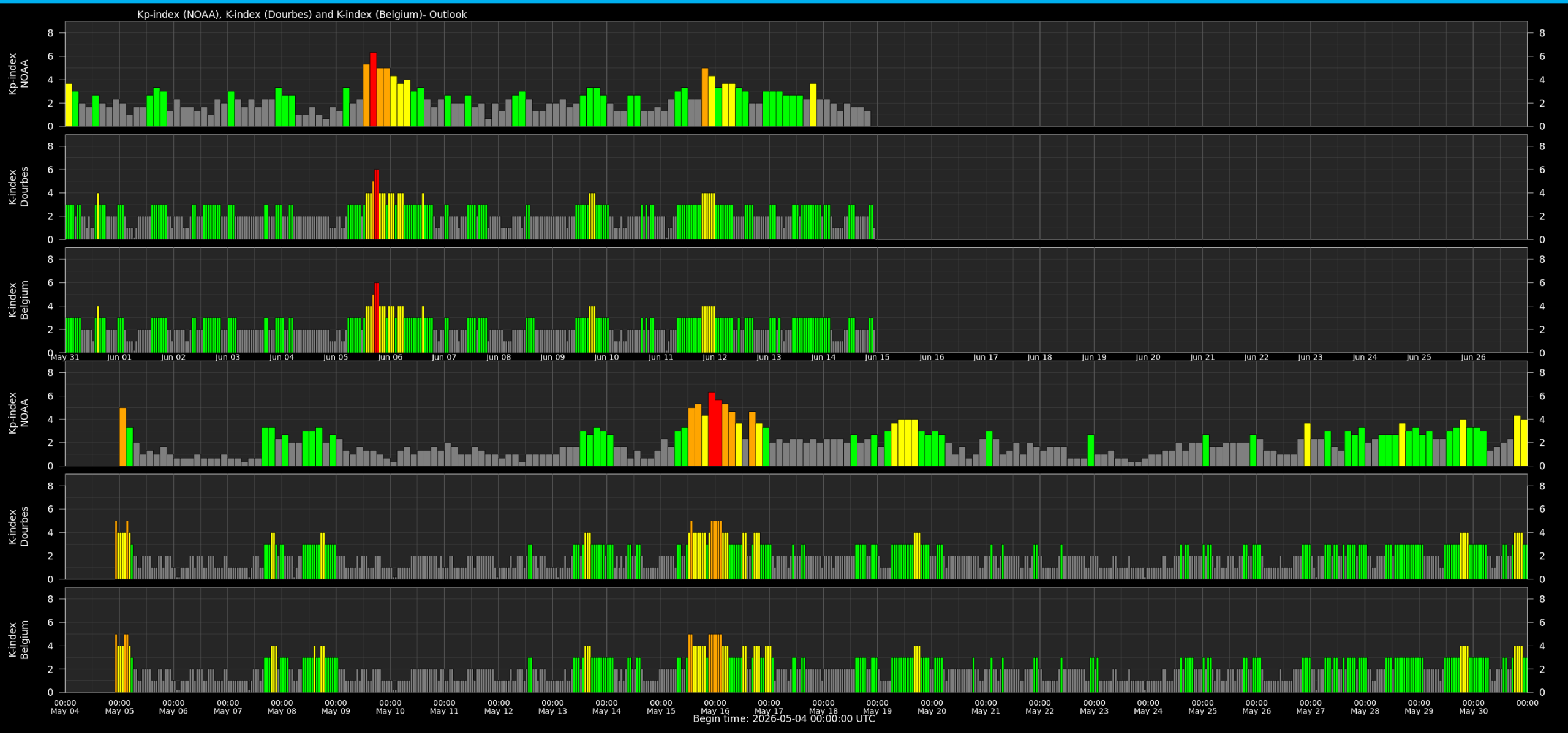
# Outlook: Solar F10.7cm radio flux



# Outlook: Solar wind parameters



# Outlook: Geomagnetic activity



# Outlook: Electron Flux at GEO Outlook



PECASUS

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# Pecasus related events

PECASUS is SBC (Secondary Backup Center)

No advisories were issued

SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at www.sidc.be

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