SIDC Space Weather Briefing

03 August 2026-09 August 2026

Jennifer O’Hara

& the SIDC forecaster team

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
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Solar Activity

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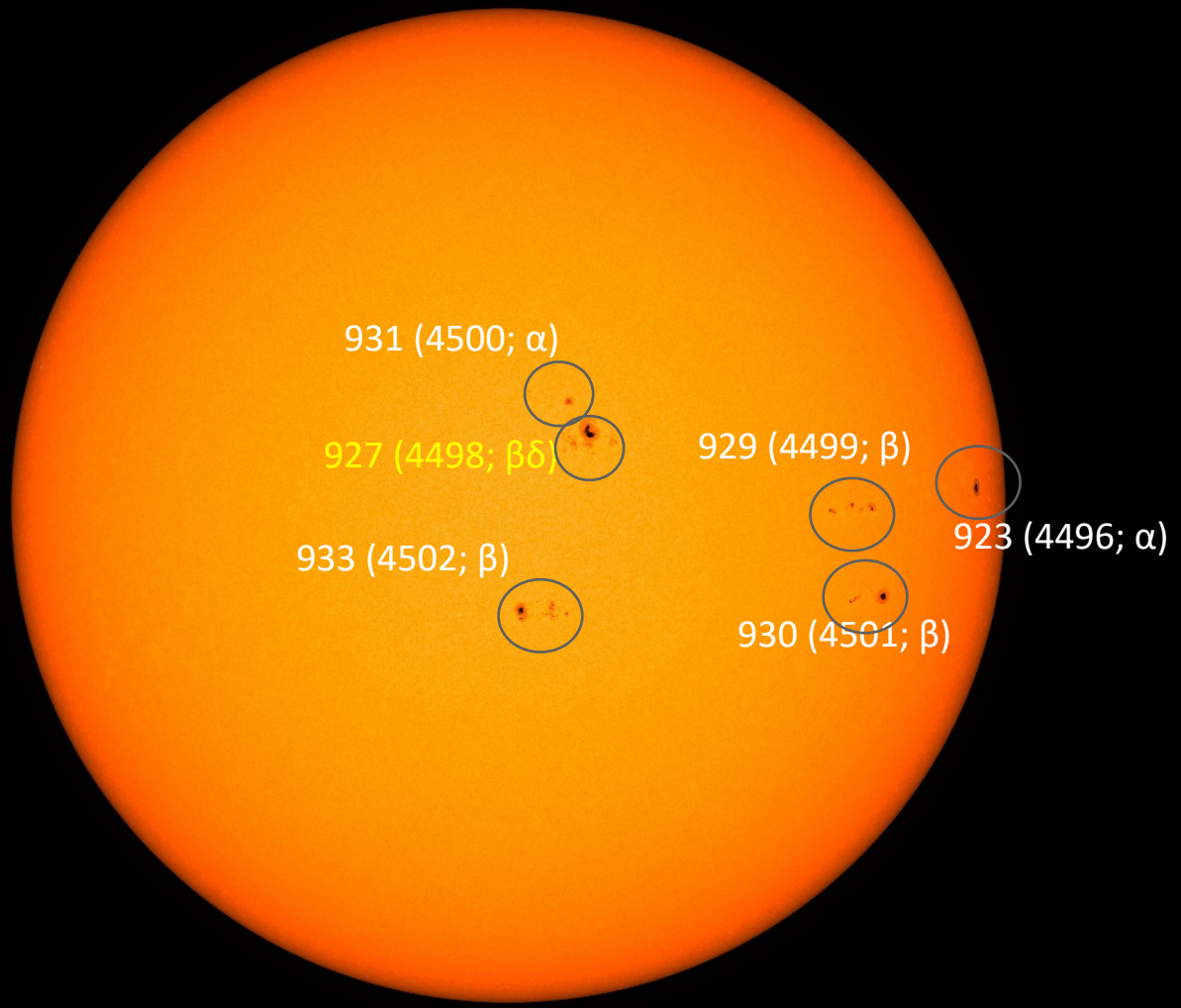
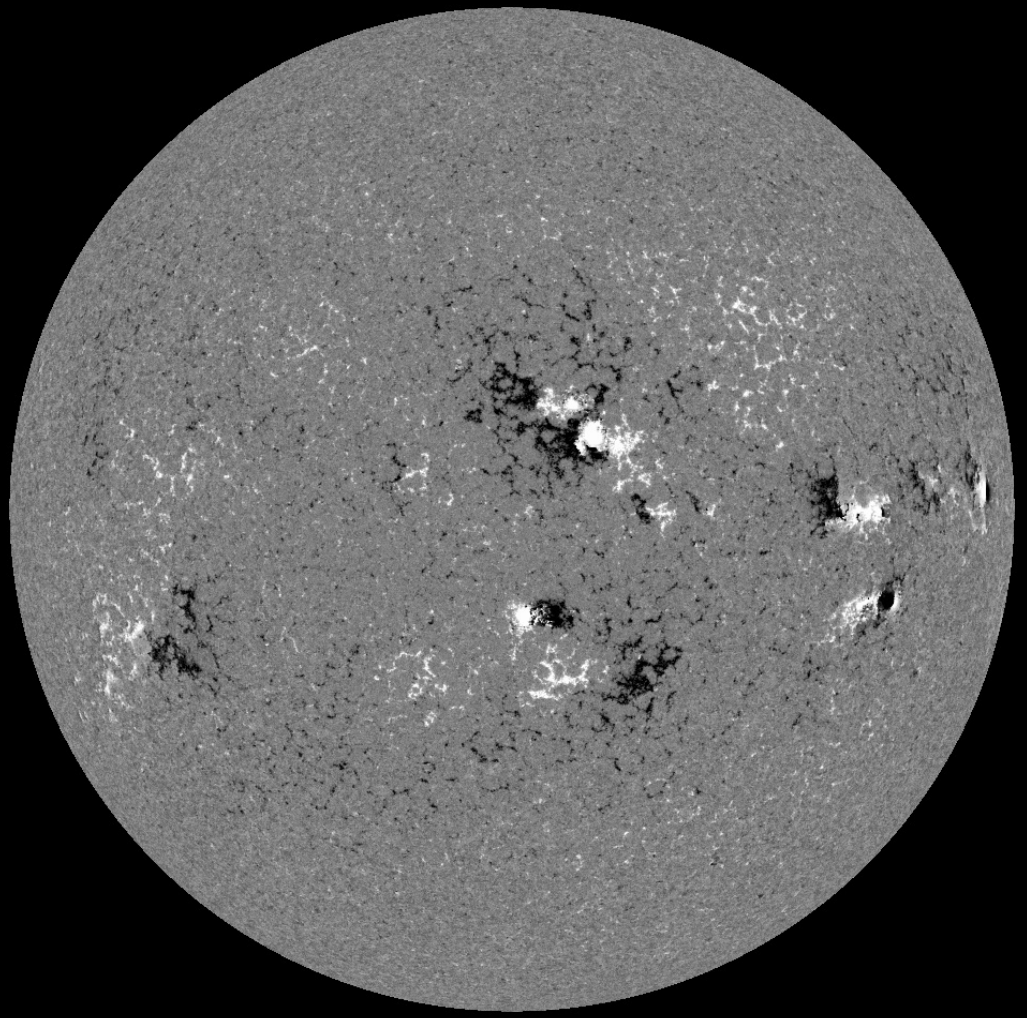
Solar active regions

SDO/HMI White Light 2026-08-03

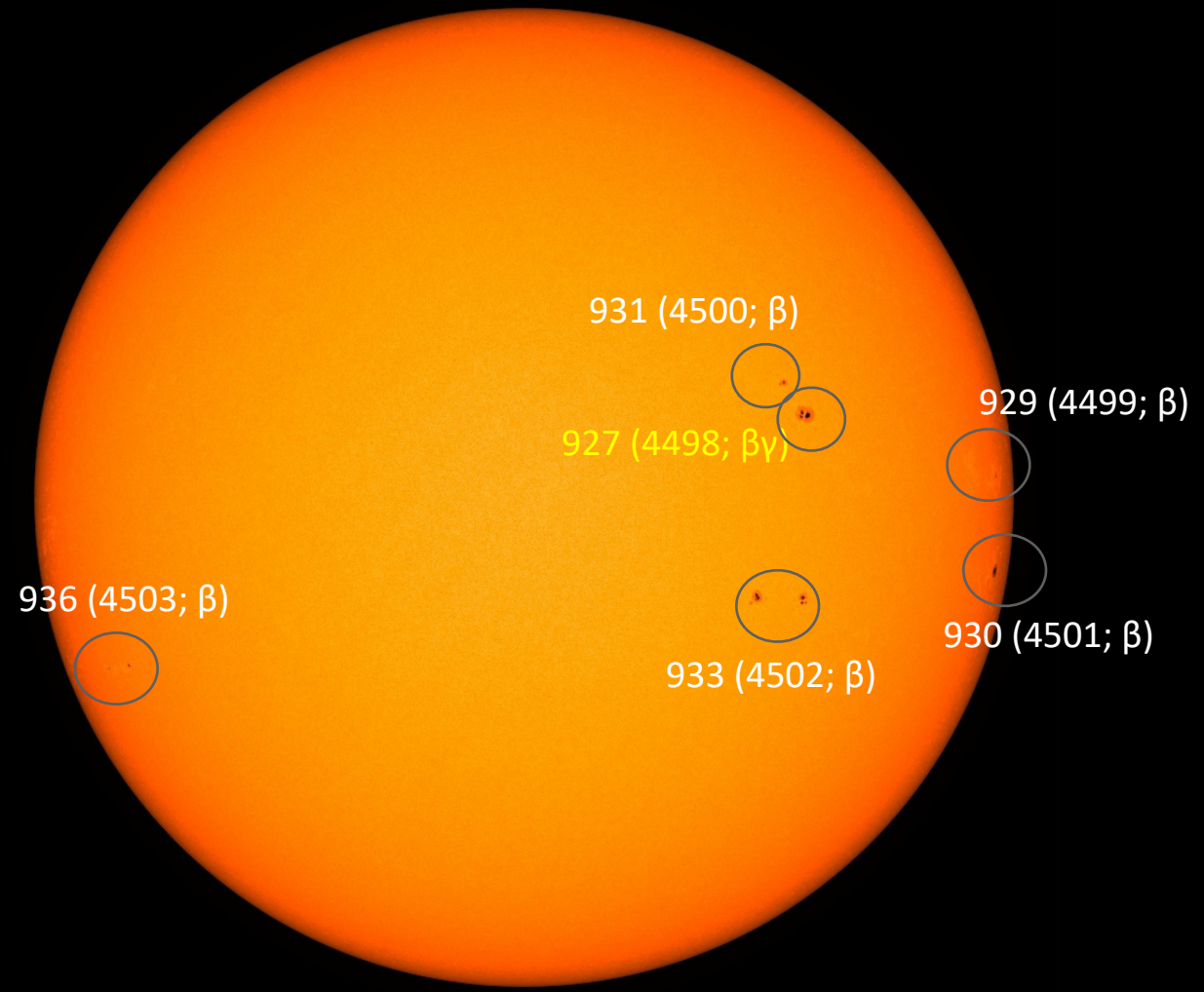


SDO/HMI Magnetogram 2026-08-03

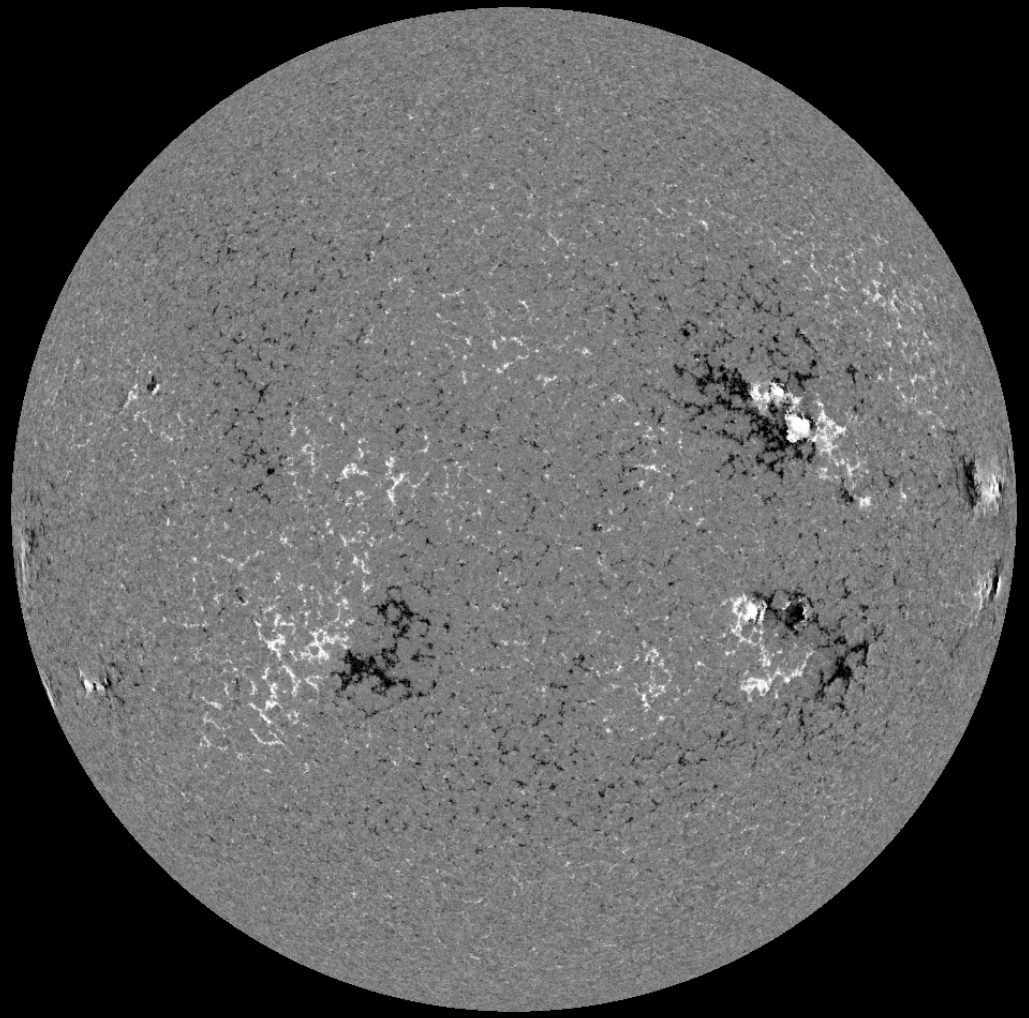


Solar active regions

SDO/HMI White Light 2026-08-05

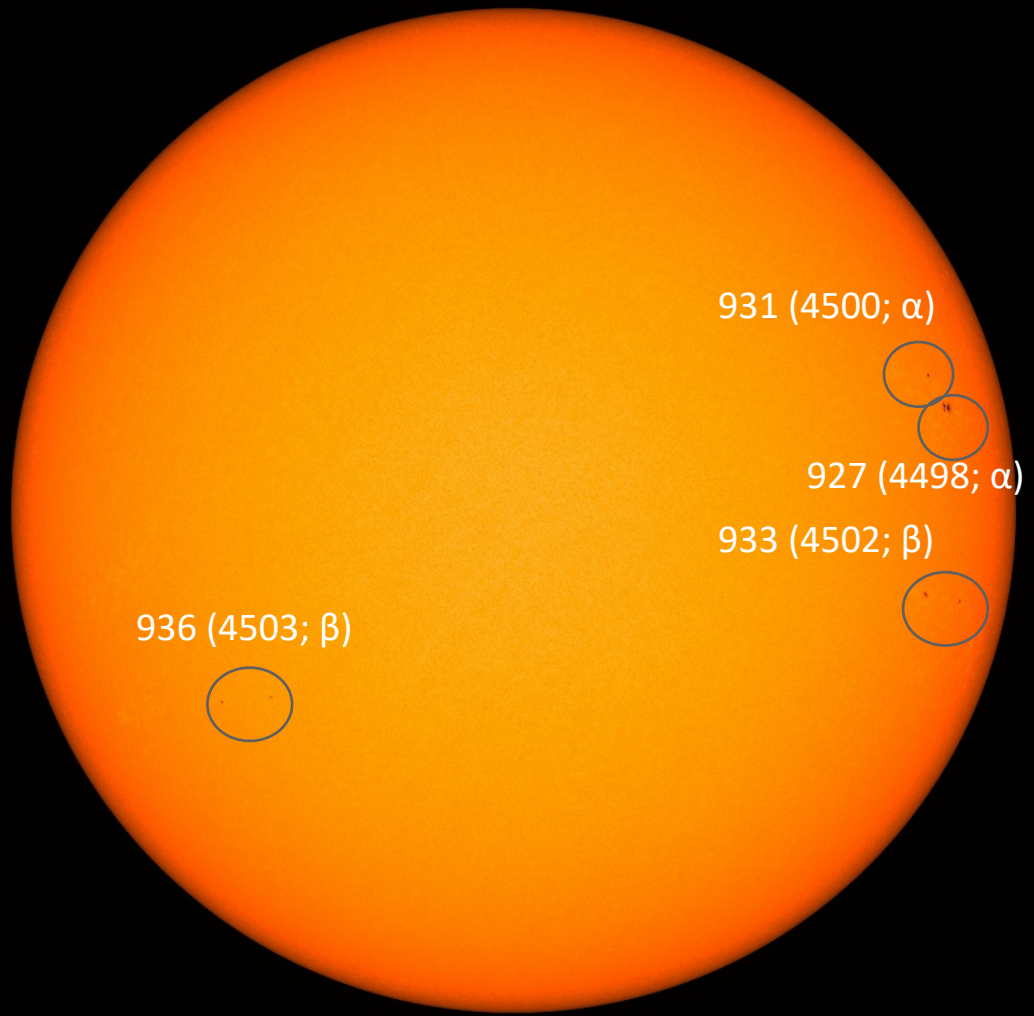


SDO/HMI Magnetogram 2026-08-05

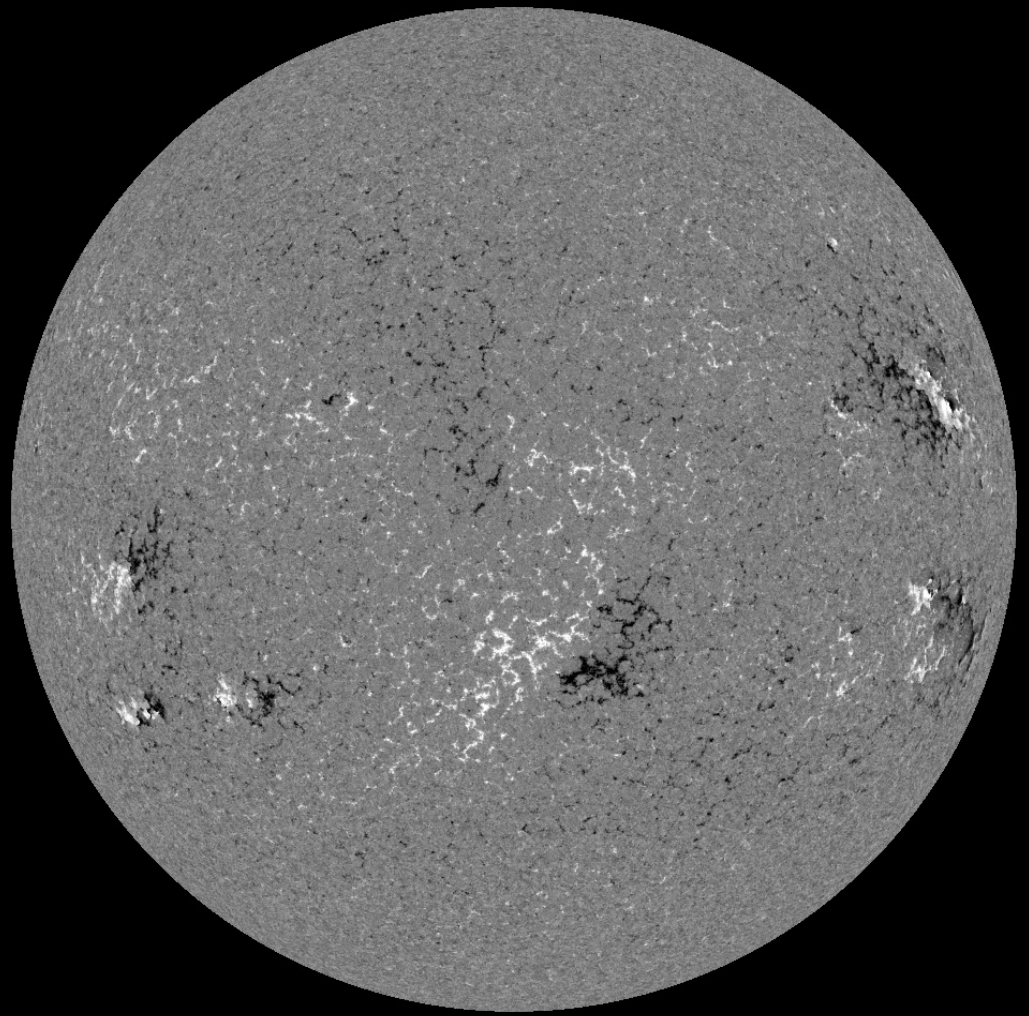


Solar active regions

SDO/HMI White Light 2026-08-07

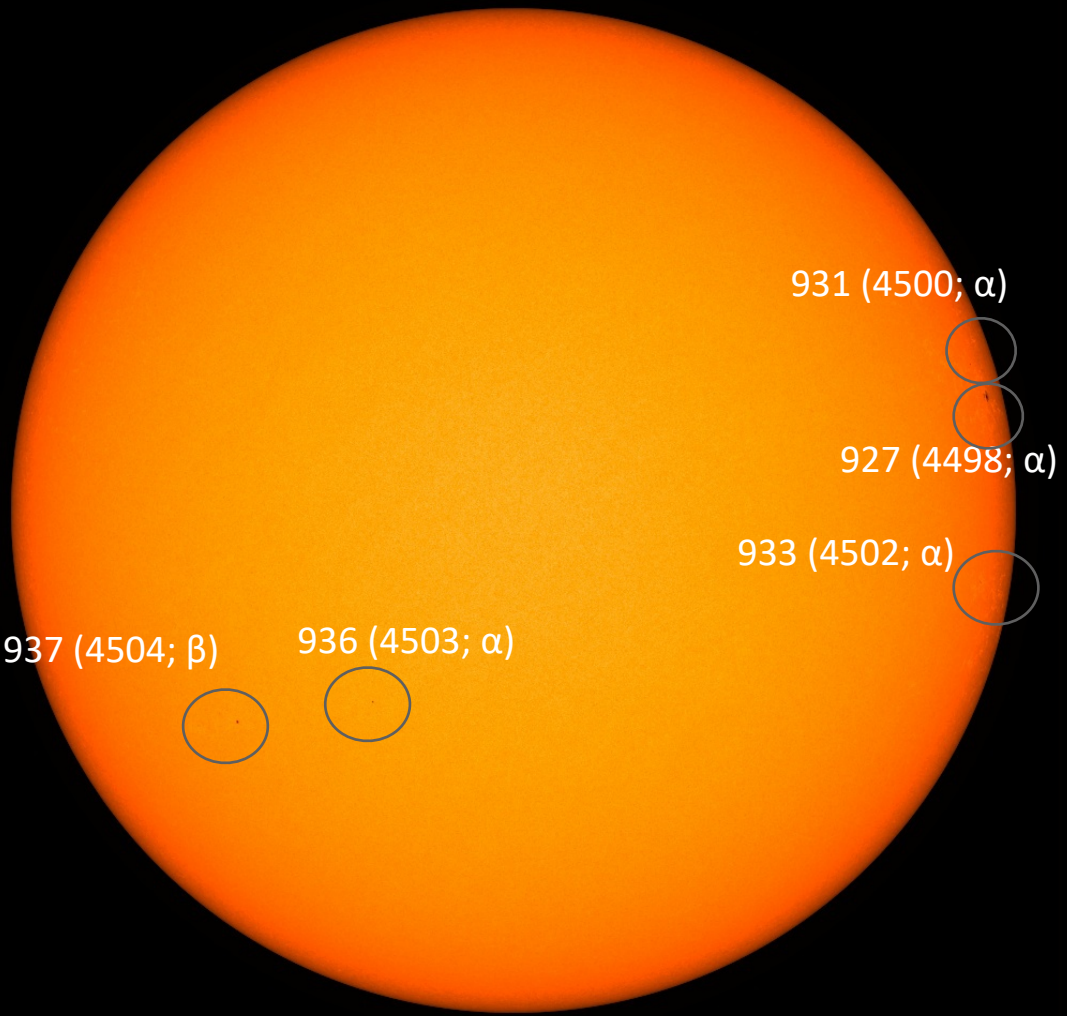


SDO/HMI Magnetogram 2026-08-07

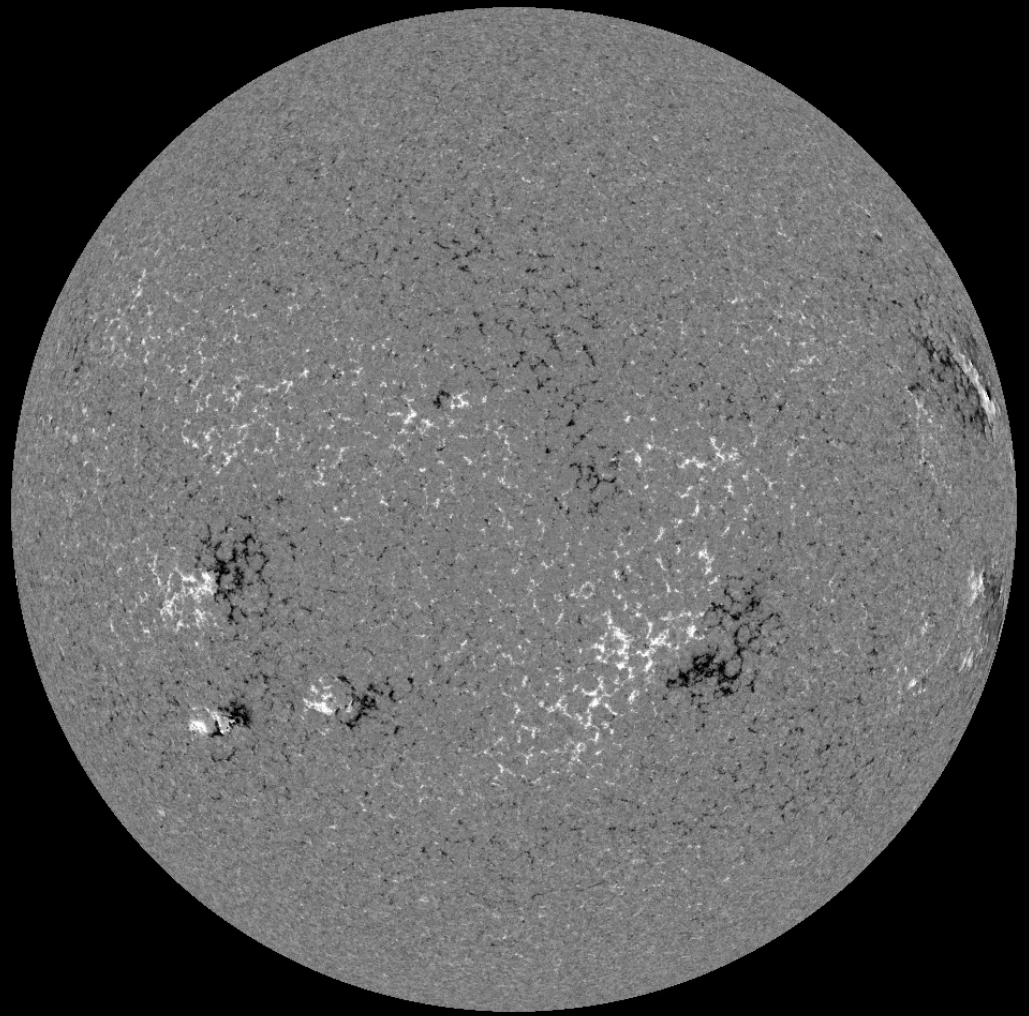


Solar active regions

SDO/HMI White Light 2026-08-08

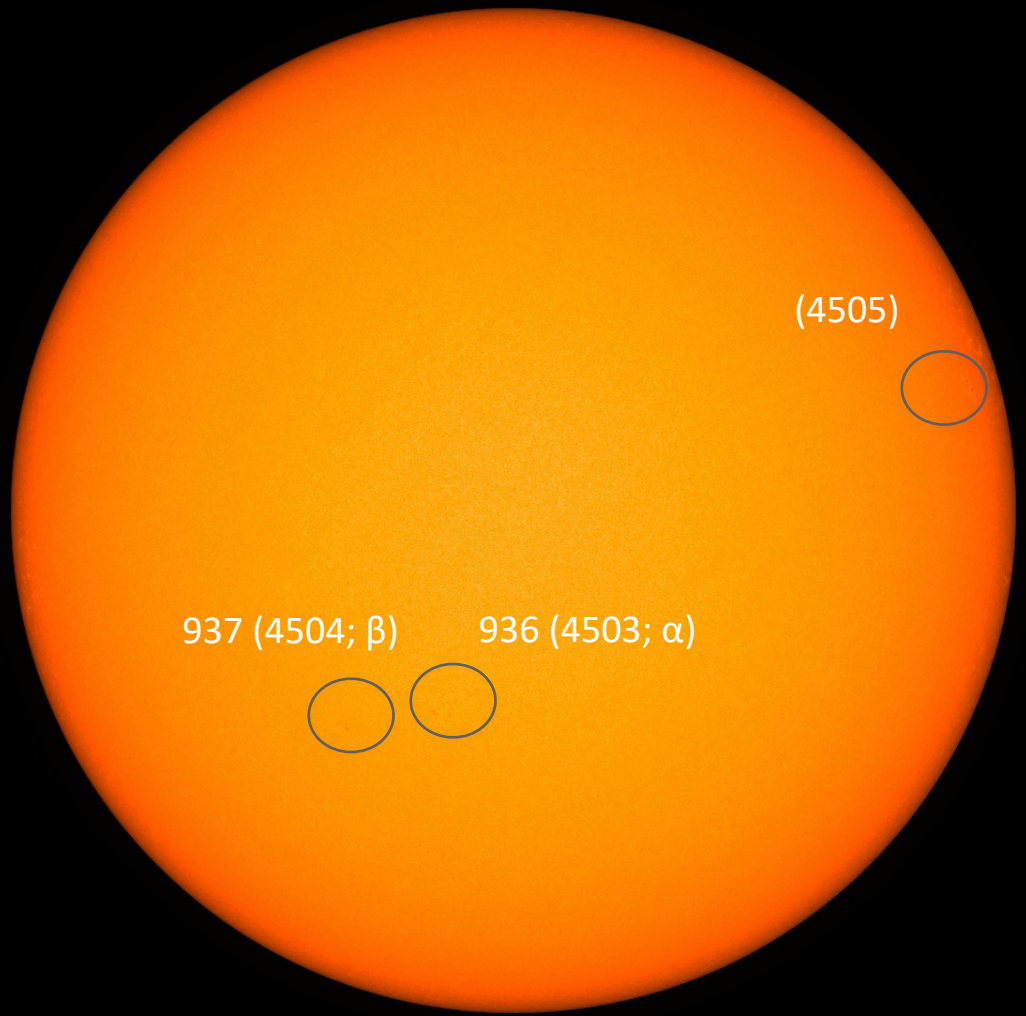


SDO/HMI Magnetogram 2026-08-08

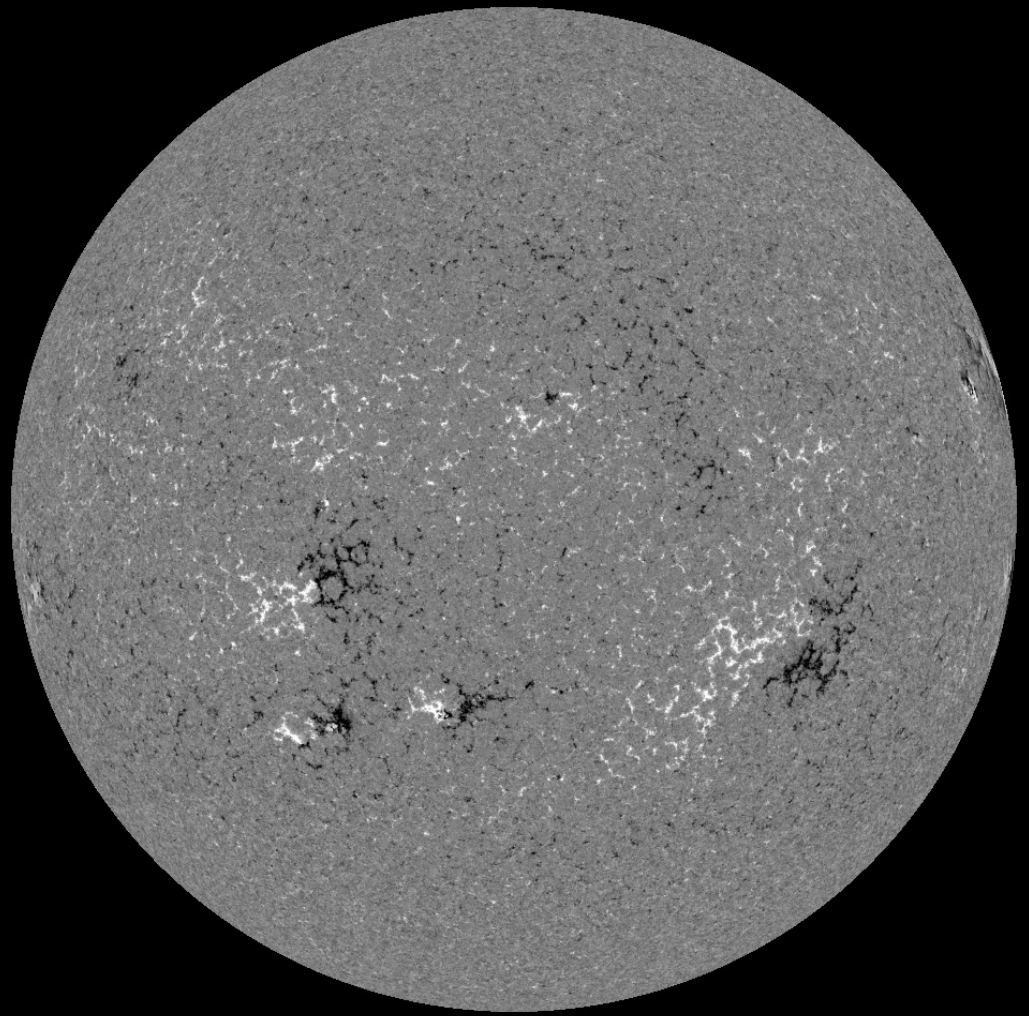


Solar active regions

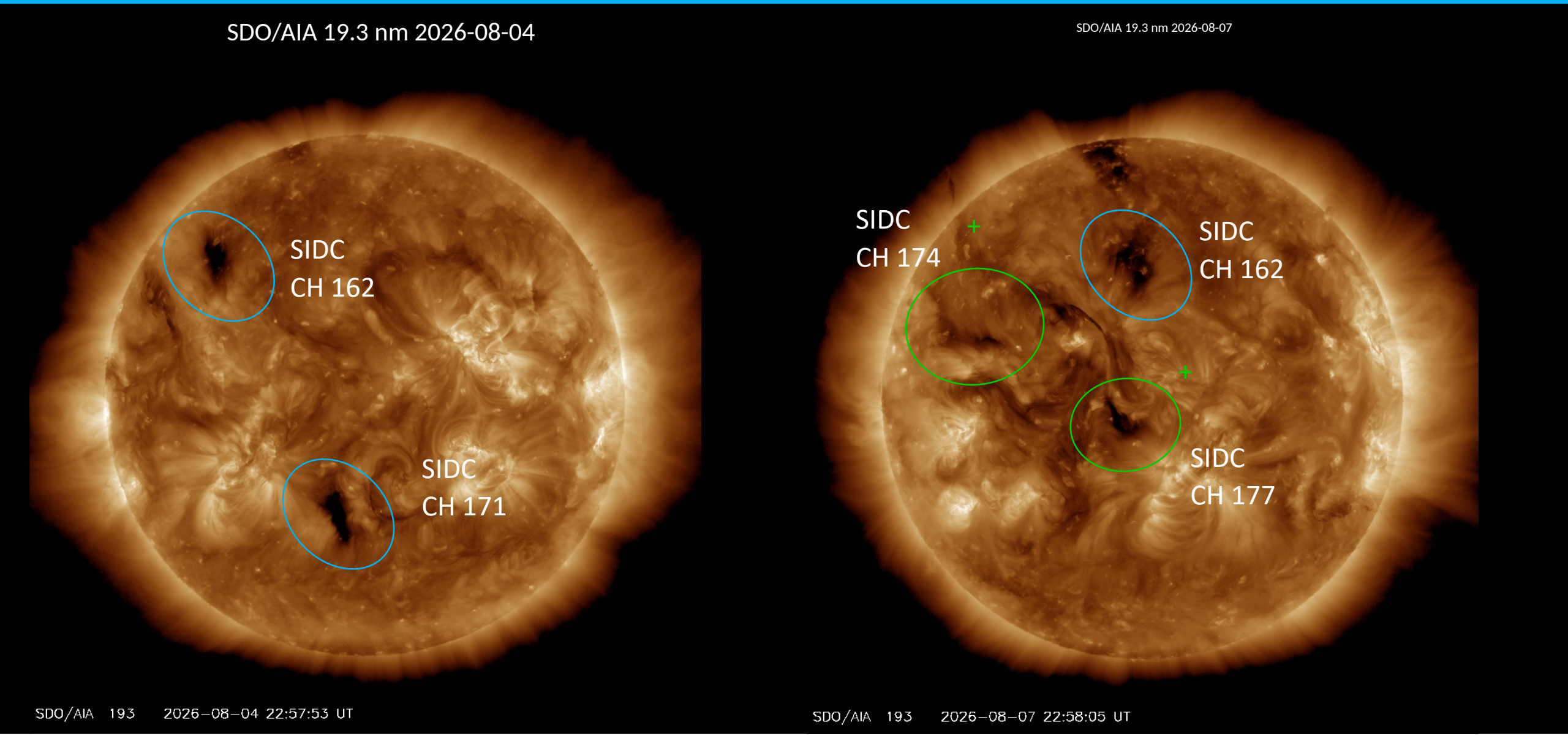
SDO/HMI White Light 2026-08-09



SDO/HMI Magnetogram 2026-08-09

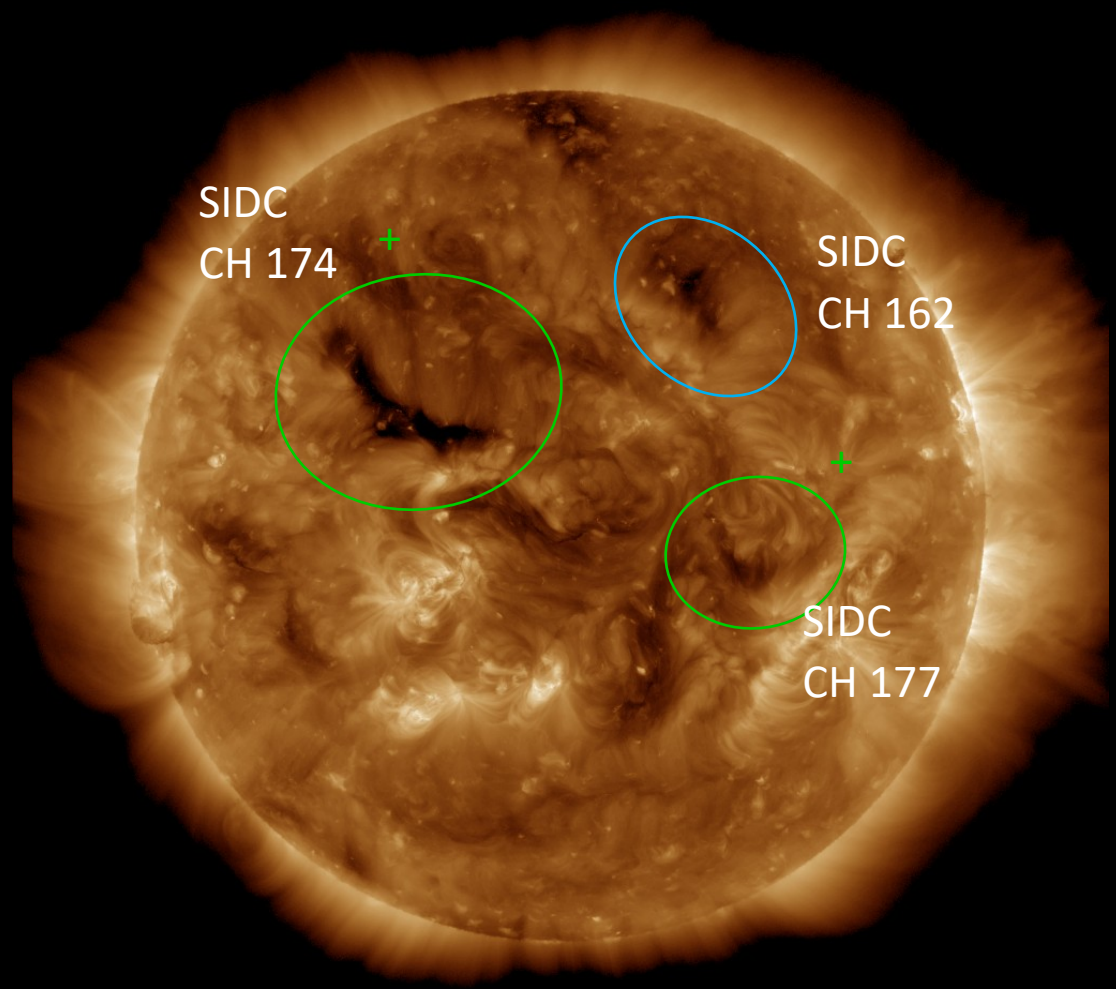


Coronal holes



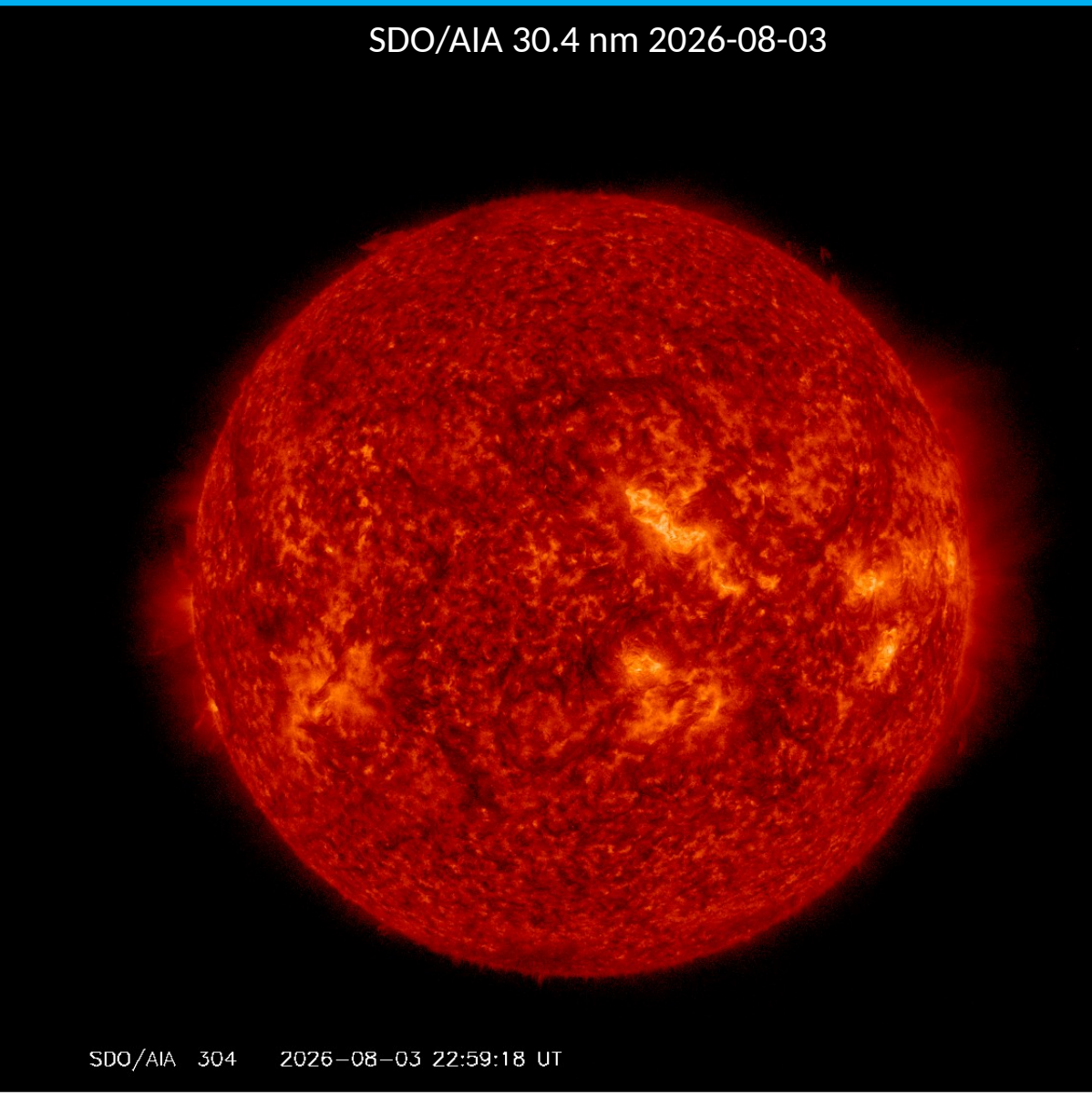
Coronal holes

SDO/AIA 19.3 nm 2026-08-09

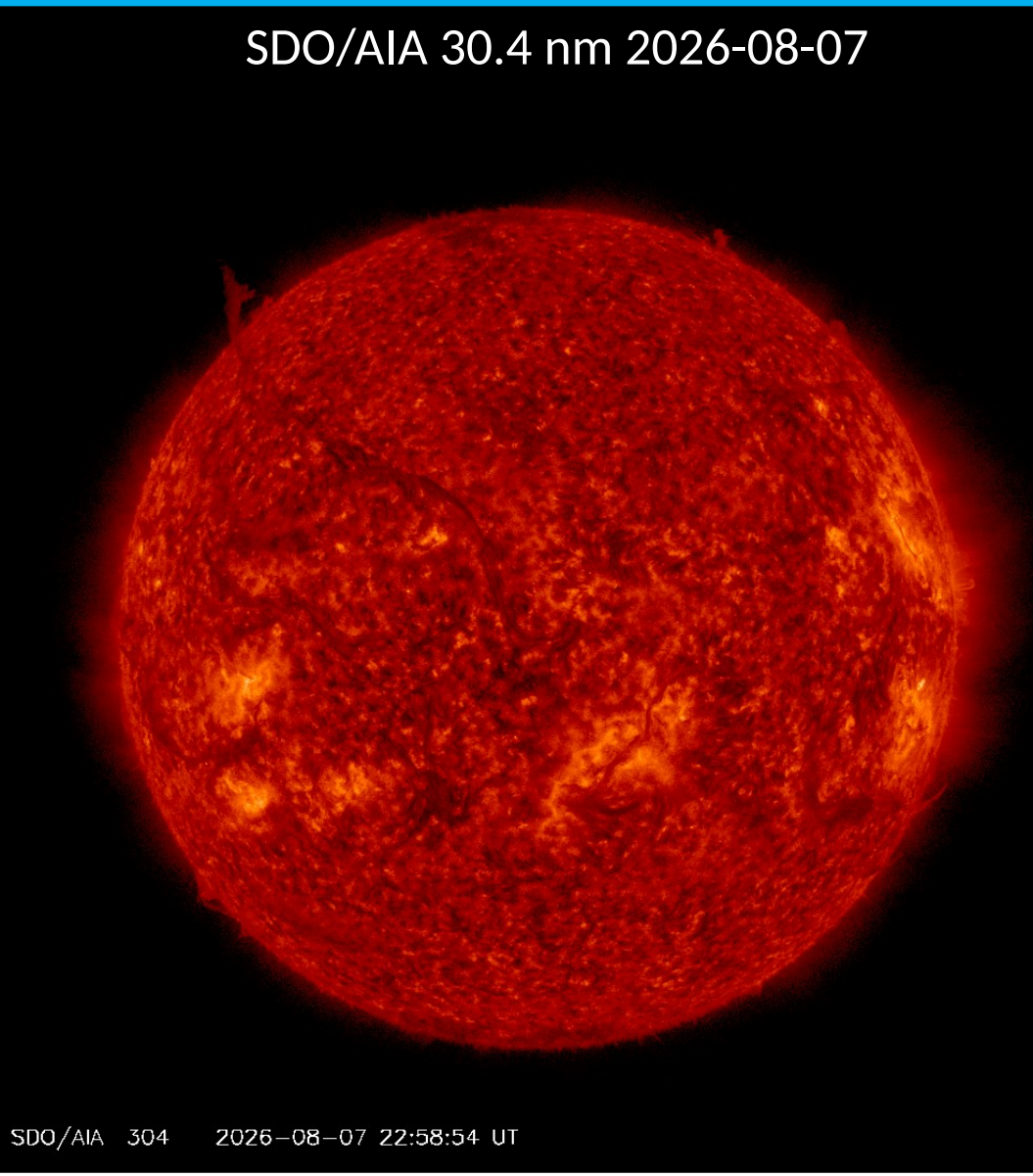


Filaments & Filament eruptions

SDO/AIA 30.4 nm 2026-08-03

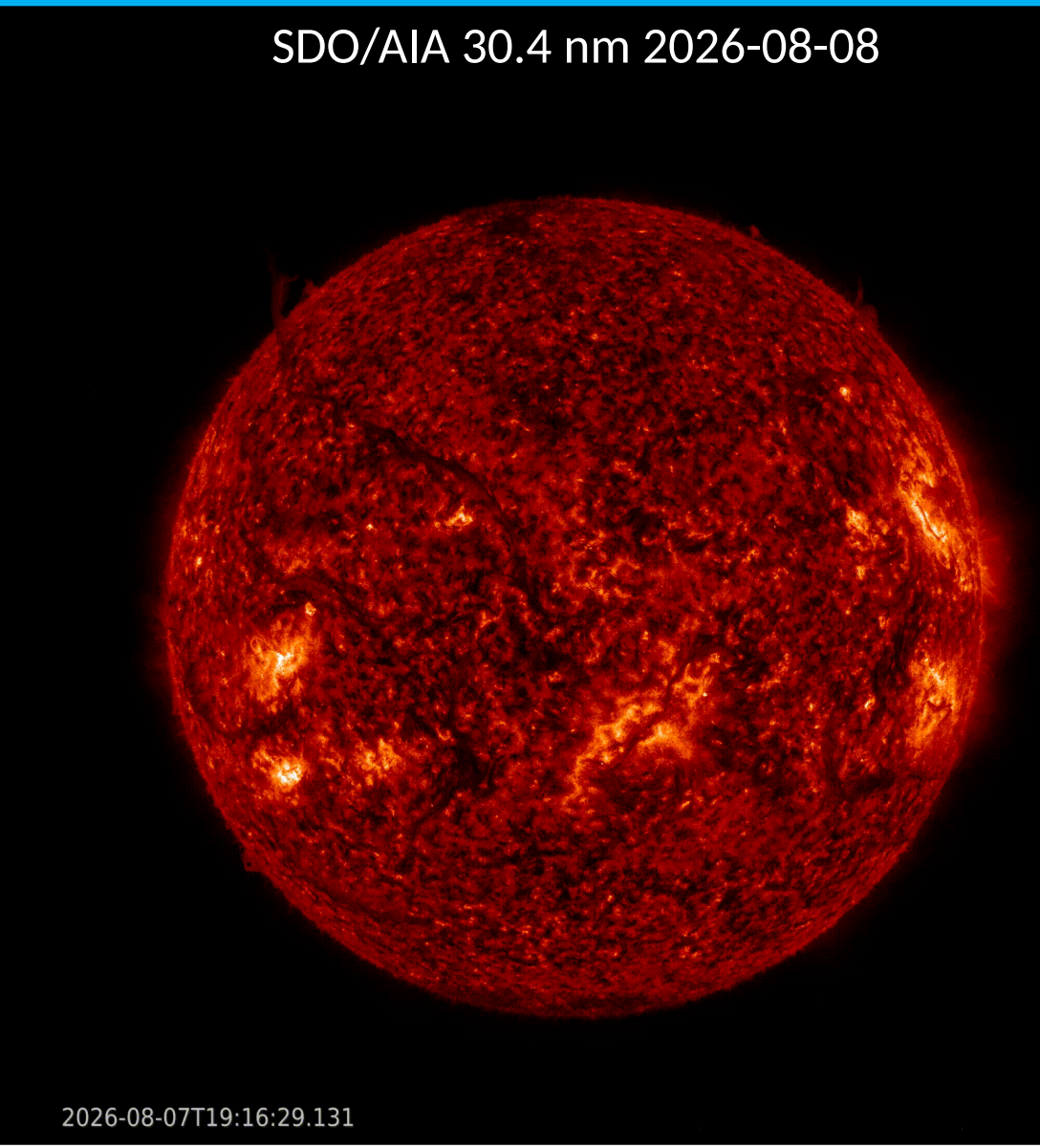


SDO/AIA 30.4 nm 2026-08-07

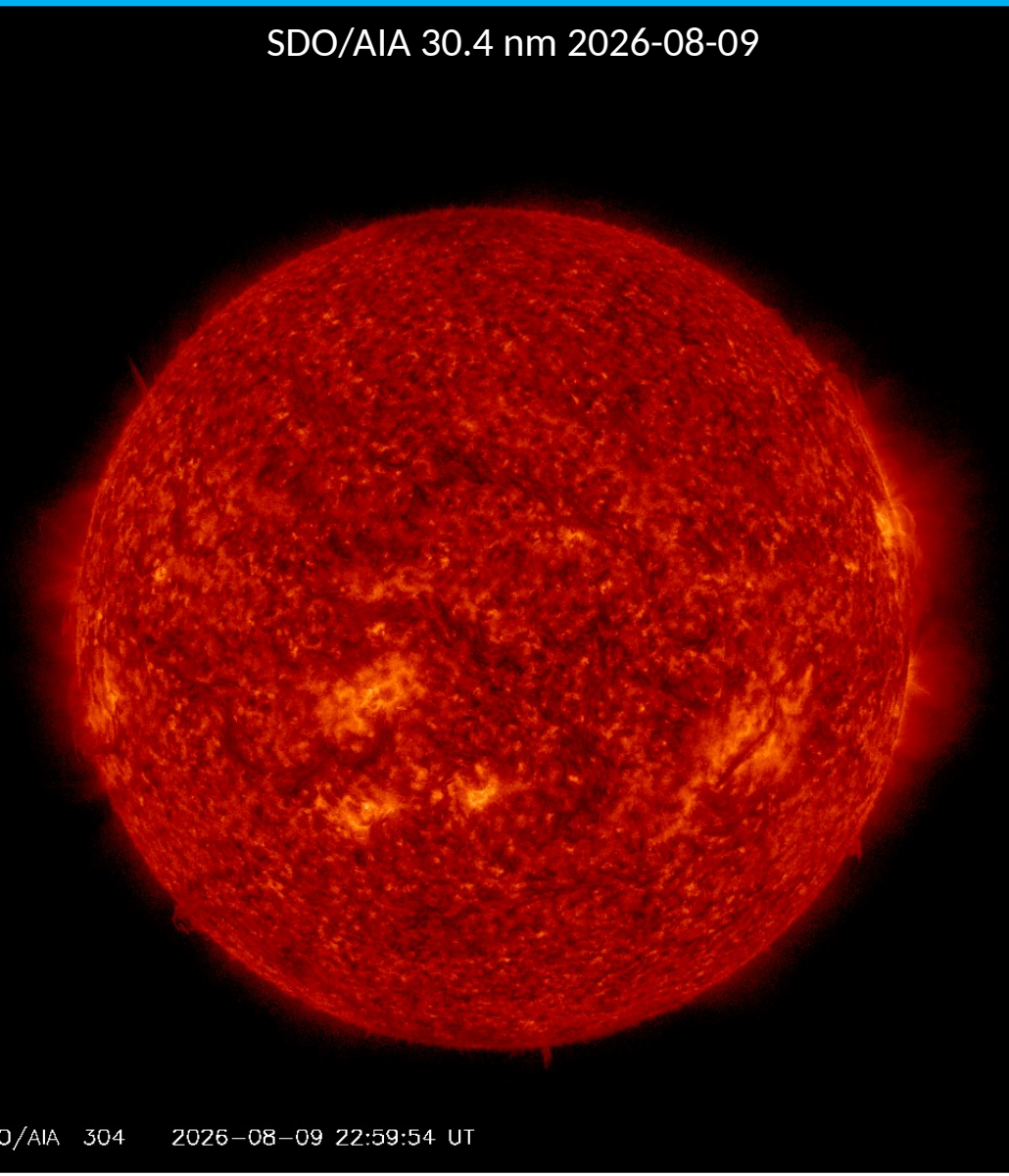


Filaments & Filament eruptions

SDO/AIA 30.4 nm 2026-08-08

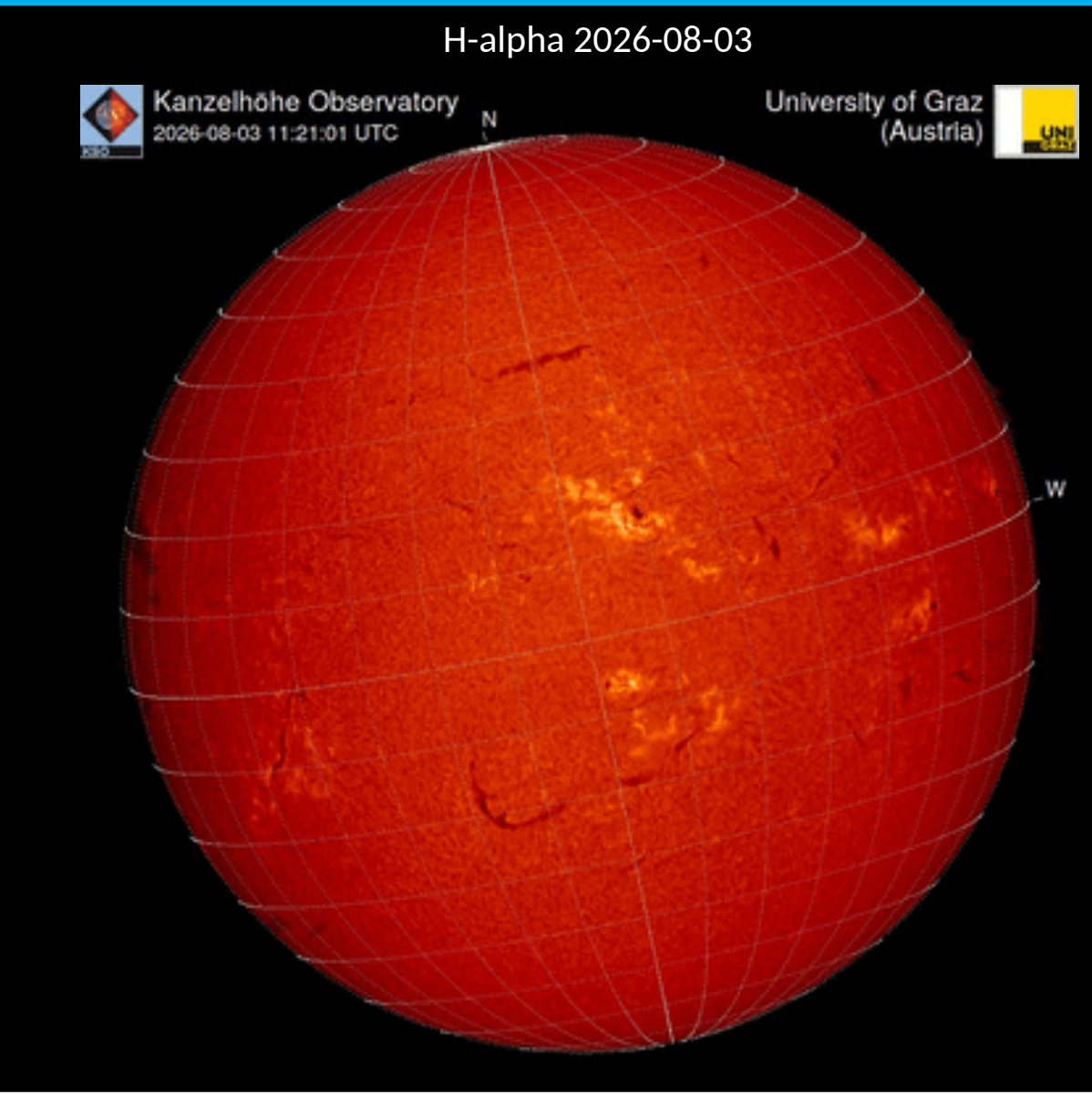


SDO/AIA 30.4 nm 2026-08-09

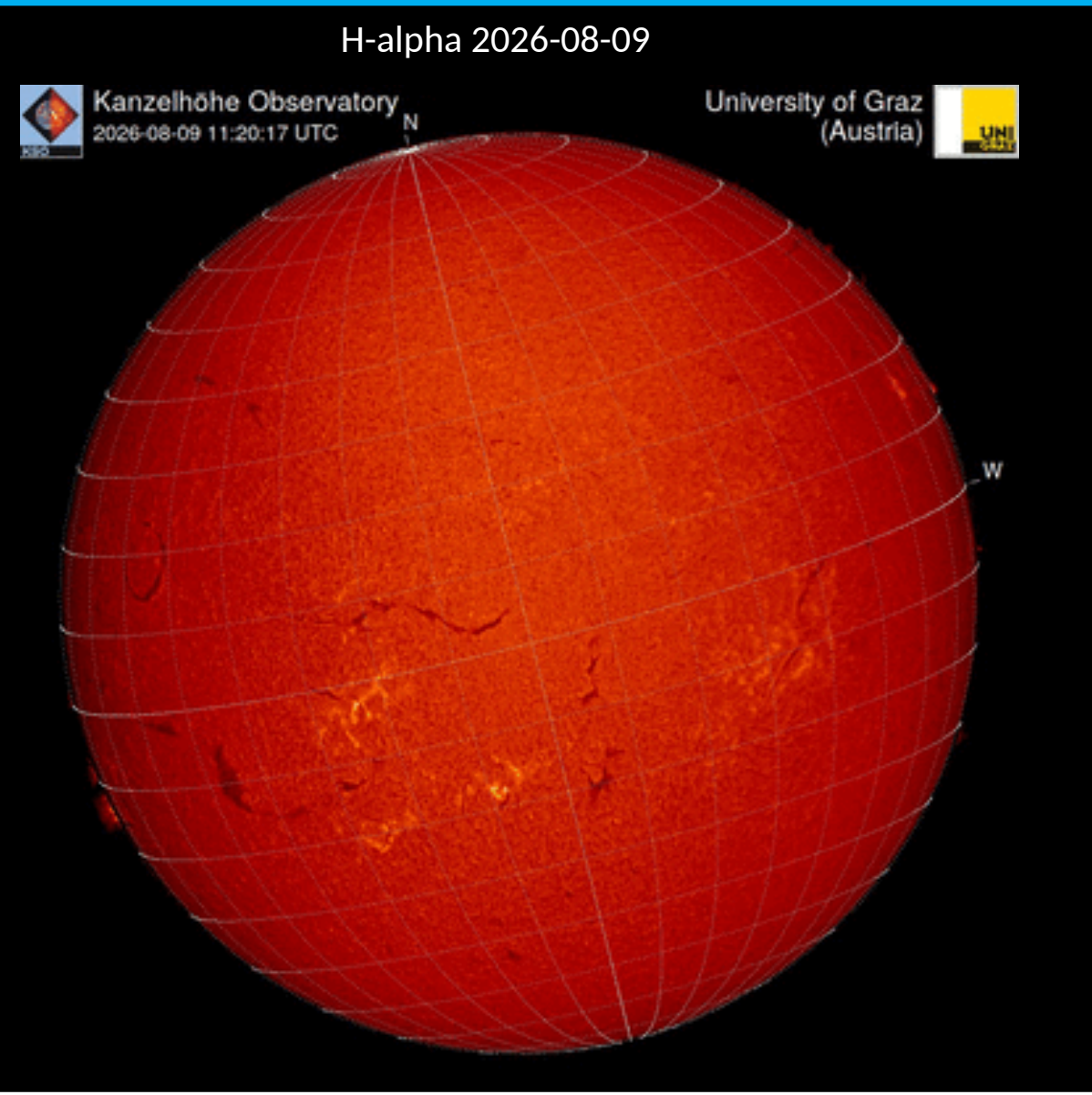


Filaments & Filament eruptions

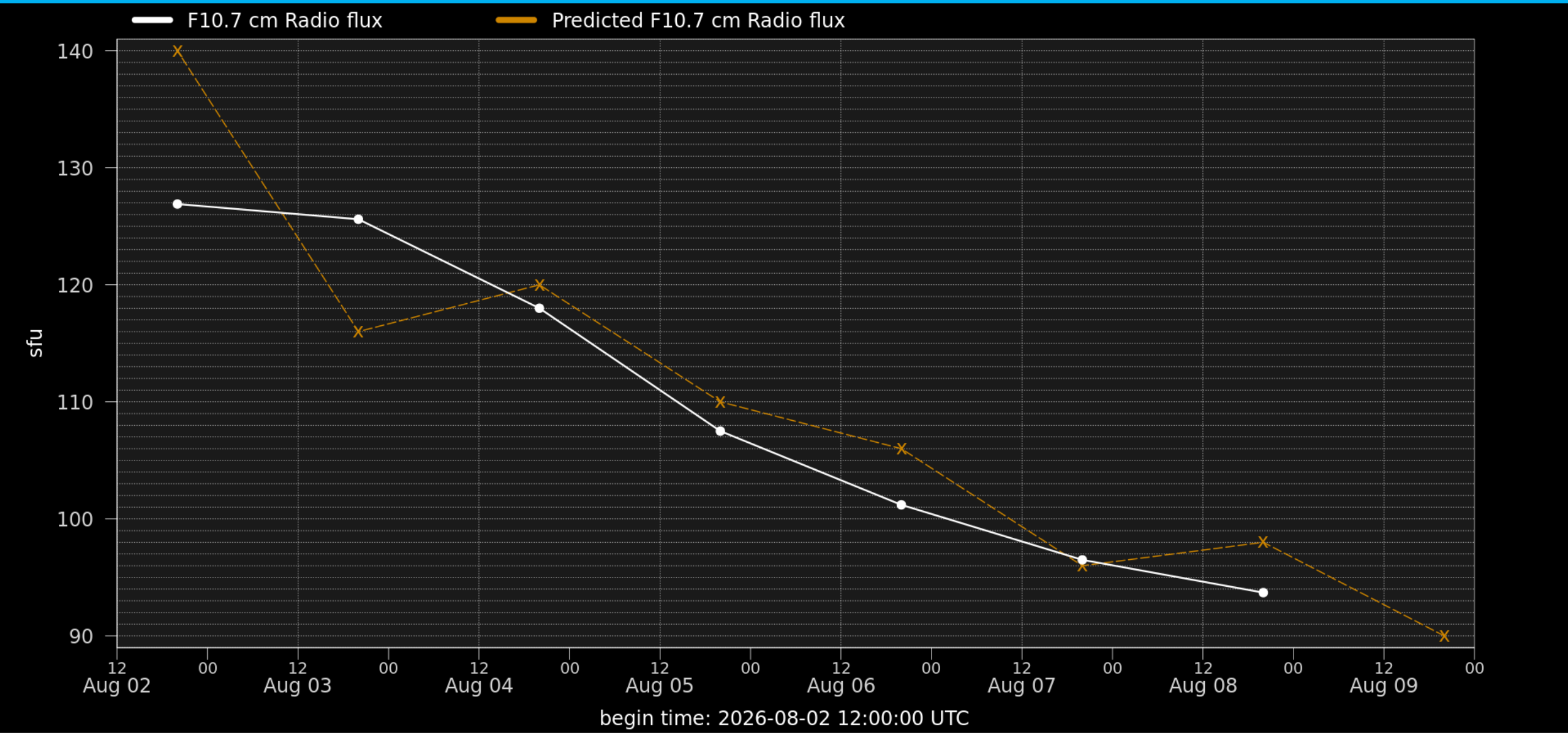
H-alpha 2026-08-03



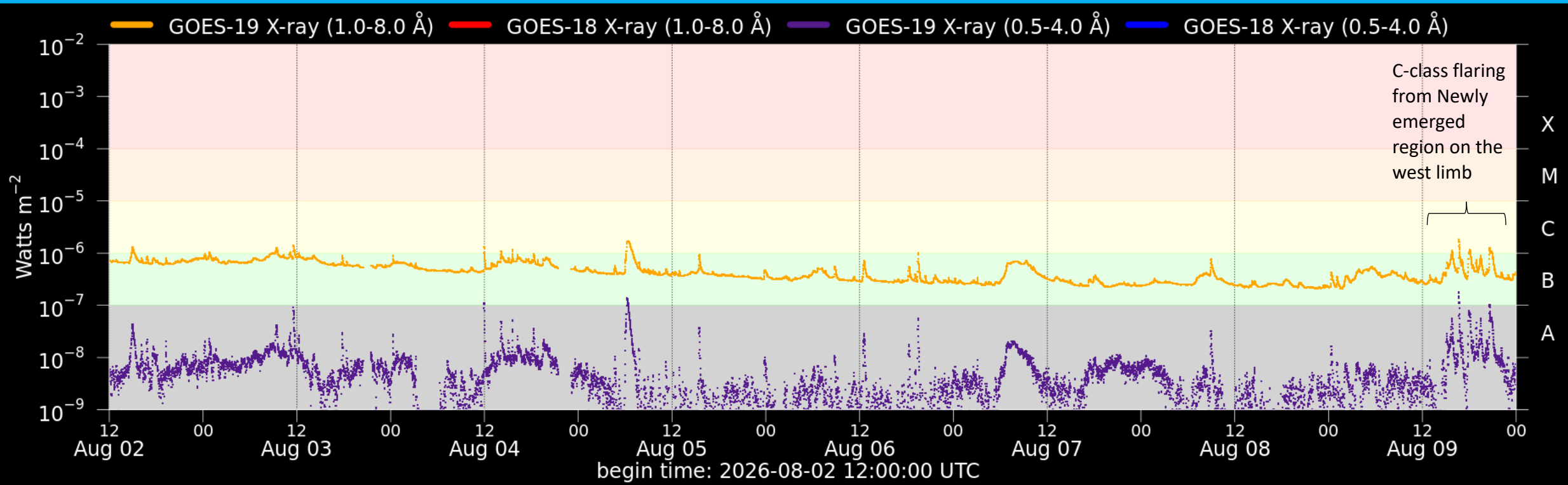
H-alpha 2026-08-09



Solar F10.7cm radio flux



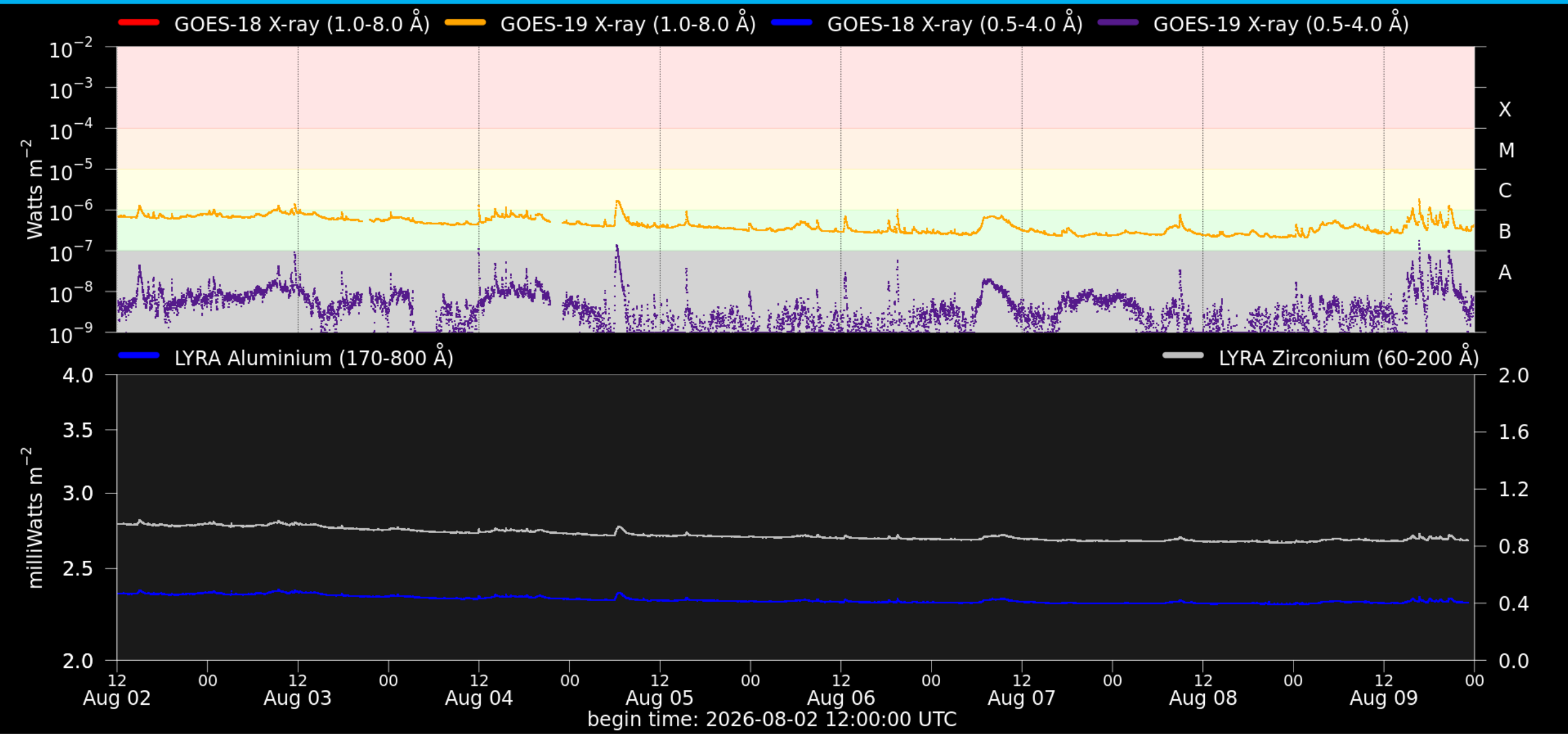
Flaring activity



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

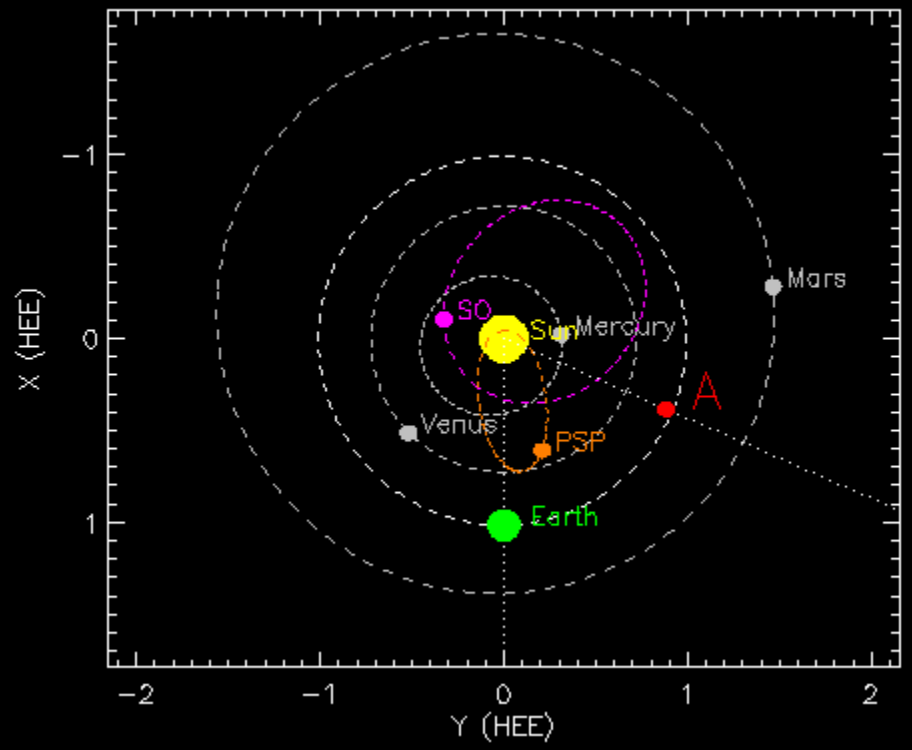
Issue date	2026-08-02	2026-08-03	2026-08-04	2026-08-05	2026-08-06	2026-08-07	2026-08-08	2026-08-09
Probability (%)	98|45|02	95|47|01	91|35|01	82|25|01	70|23|01	63|14|01	28|02|01	14|01|01
Observed (#)	01|00|00	01|00|00	03|00|00	00|00|00	01|00|00	00|00|00	00|00|00	04|00|00

Solar X-Ray and UV flux



Coronal Mass Ejections

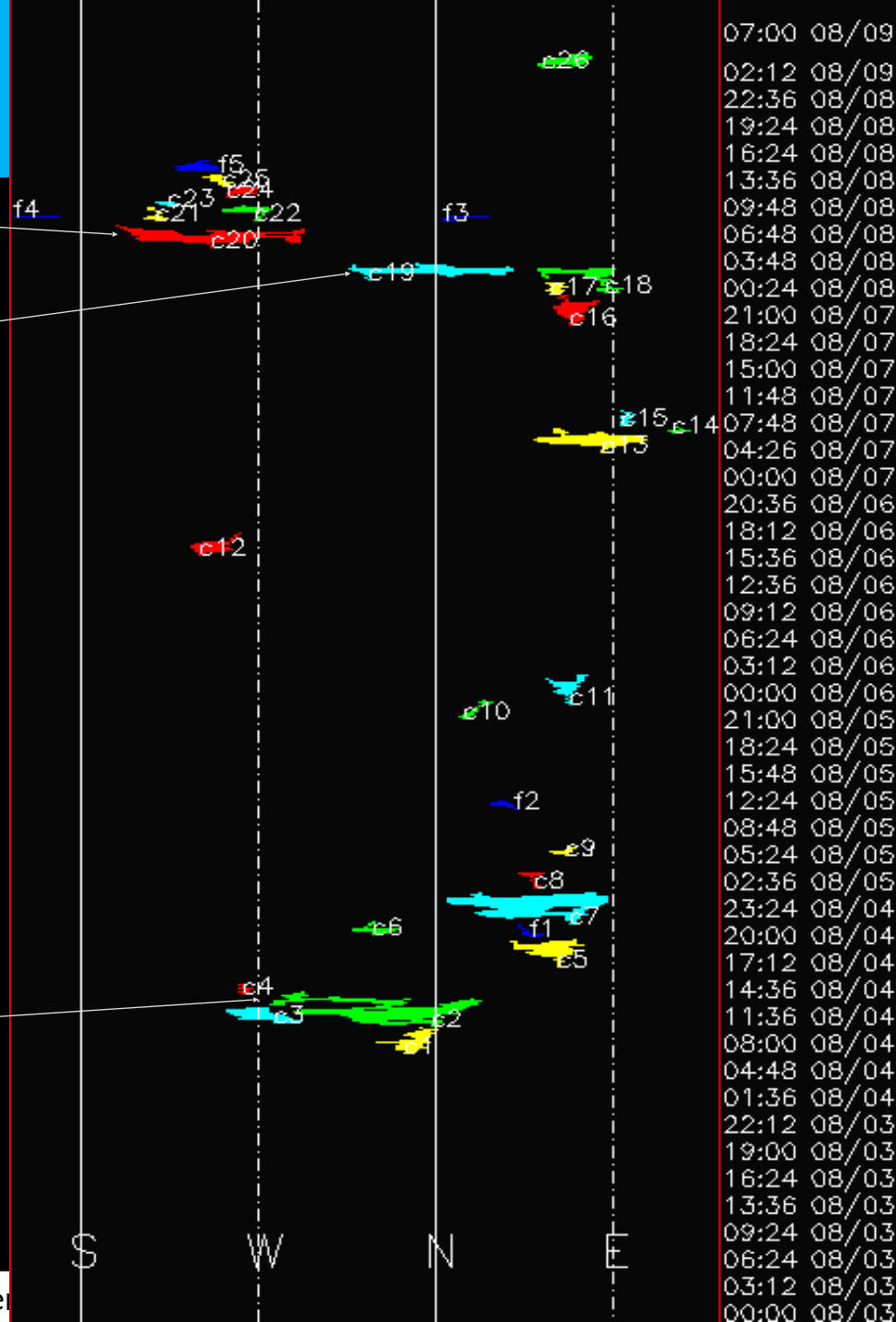
2 CMEs* with Earth Directed components: observed from
SOHO/LASCO-C2 and STEREO-A/COR2



CME 3: August 08

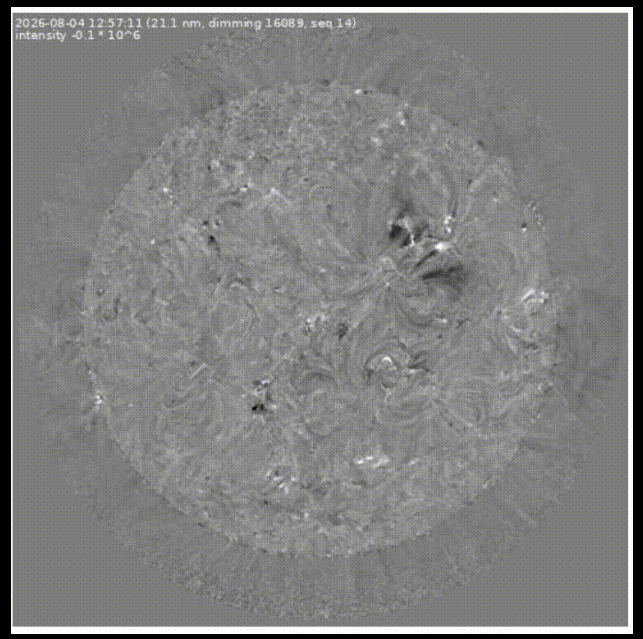
CME 2*: August 08

CME 1*: august 04



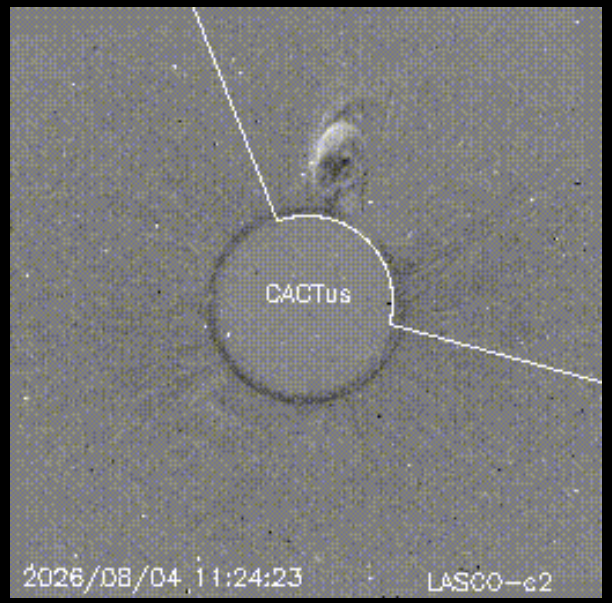
SIDC CME 704 - 2026-08-04:

Solar Demon Dimming SDO/AIA



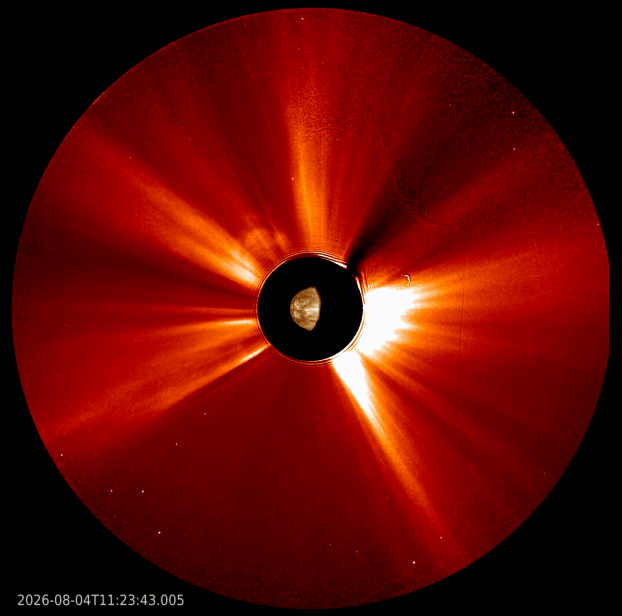
- Associated with a dimming near SIDC Sunspot group 927 (NOAA Active Region 4498).

SOHO/LASCO-C2



- North-west in SOHO/LASCO-C2 data from 12:00 UTC
- Estimated speed 470 km/s

STEREO-A/COR2



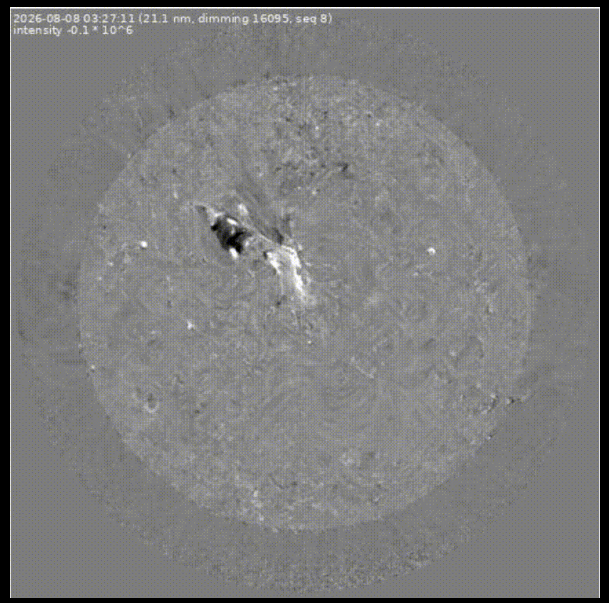
- CME to the north-east in STEREO-A COR2 data.

Predicted arrival time on August 08 around 15:00 UTC

A CME observed around 05:54 UTC on August 08

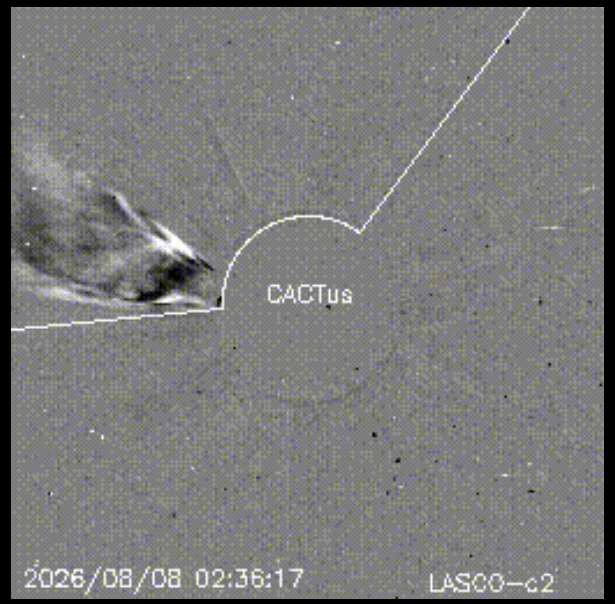
SIDC CME 705 - 2026-08-08:

Solar Demon Dimming SDO/AIA



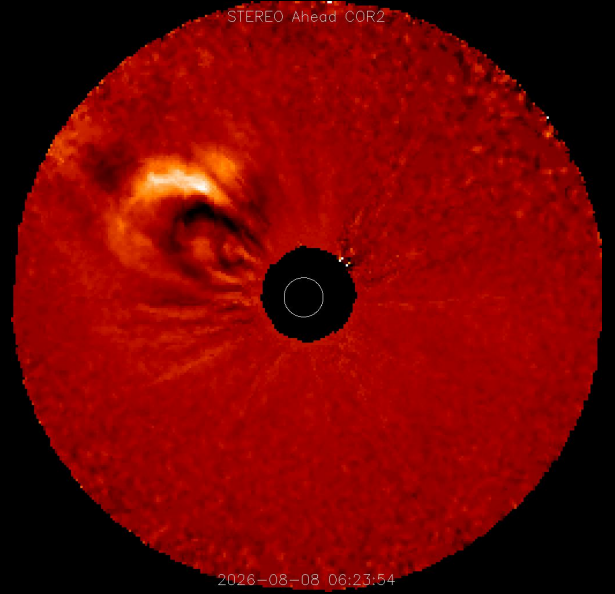
- Associated with a filament eruption in the north-east quadrant seen in SDO/AIA from 01:40 UTC on August 08.

SOHO/LASCO-C2



- Cme to the north in SOHO/ LASCO-C2 data from 03:24 UTC August 08 (complicated 2 CME structure)
- Estimated speed 580 km/s

STEREO-A/COR2

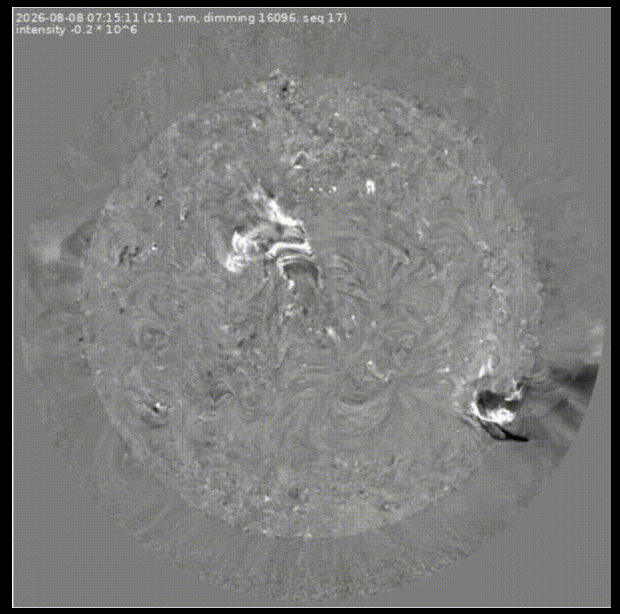


- CME to the north-east in STEREO-A COR2 data.

Predicted to have glancing blow on August 12 around 00:00 UTC

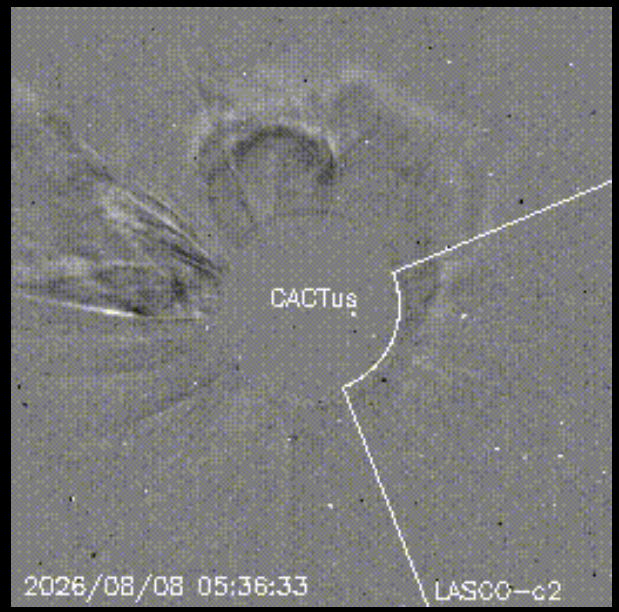
SIDC CME 706 - 2026-08-08:

Solar Demon Dimming SDO/AIA



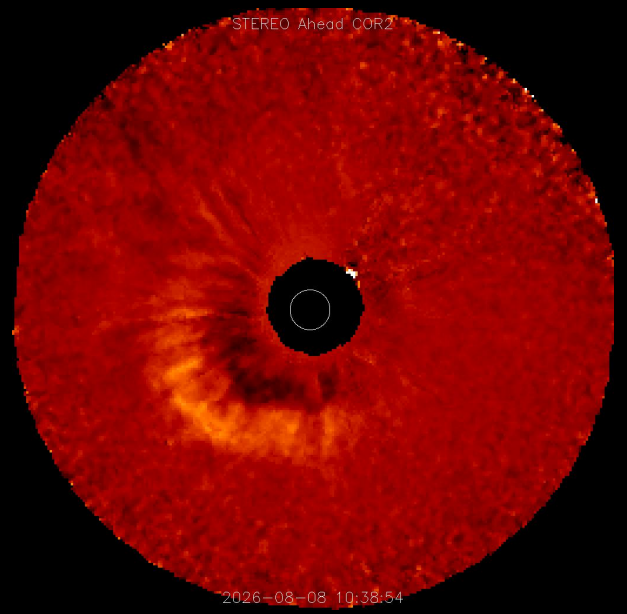
- Associated with a 2nd filament eruption in the south-west quadrant seen in SDO/AIA from 06:00 UTC on August 08.

SOHO/LASCO-C2



- CME to the south-west in SOHO/ LASCO-C2 data from 06:36 UTC August 08
- Estimated speed 780 km/s

STEREO-A/COR2



- CME seen as full halo in STEREO-A COR2 data.

Predicted to be ahead of the Sun Earth line, but any glancing blow would interact with previous CME

Solar Wind and Geomagnetic Activity

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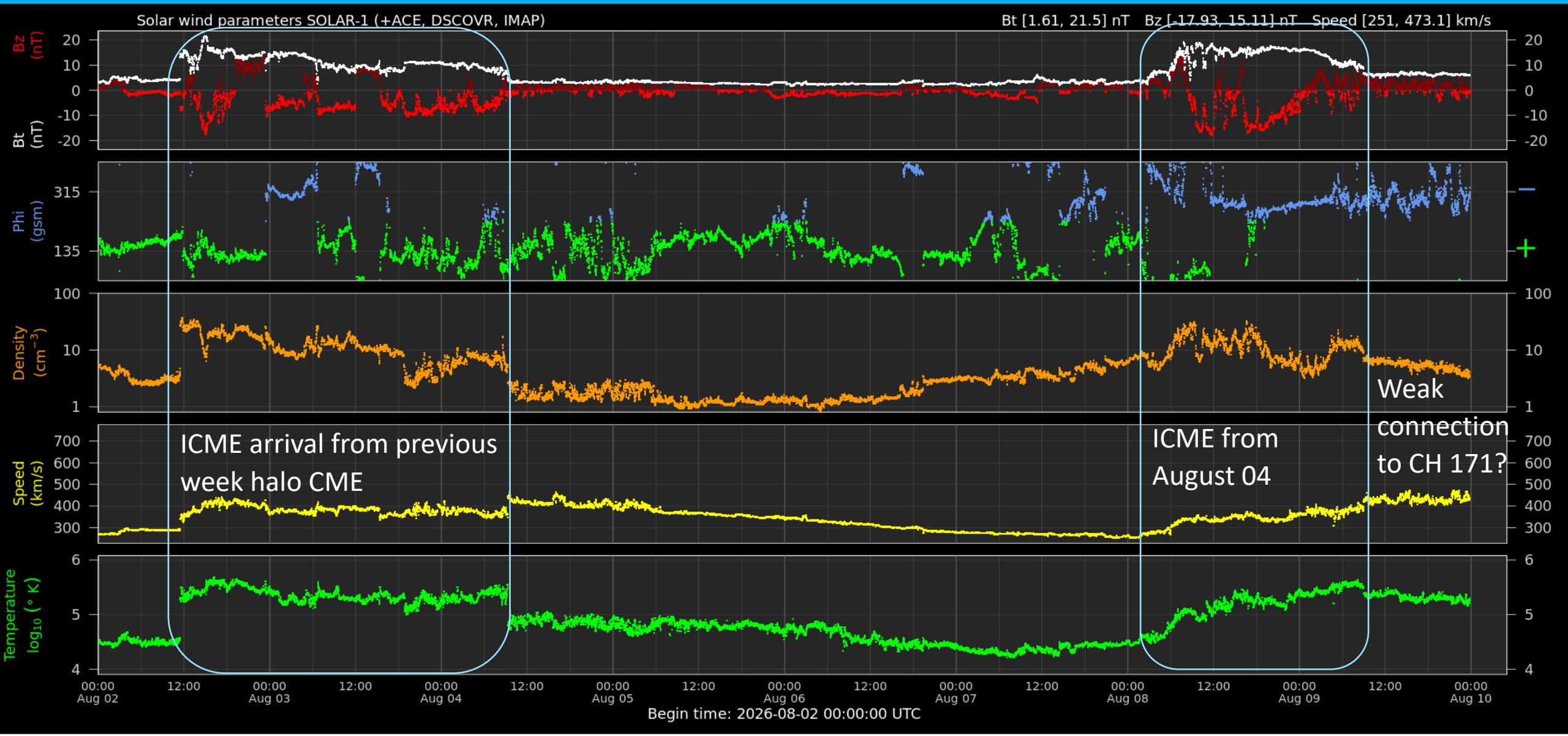
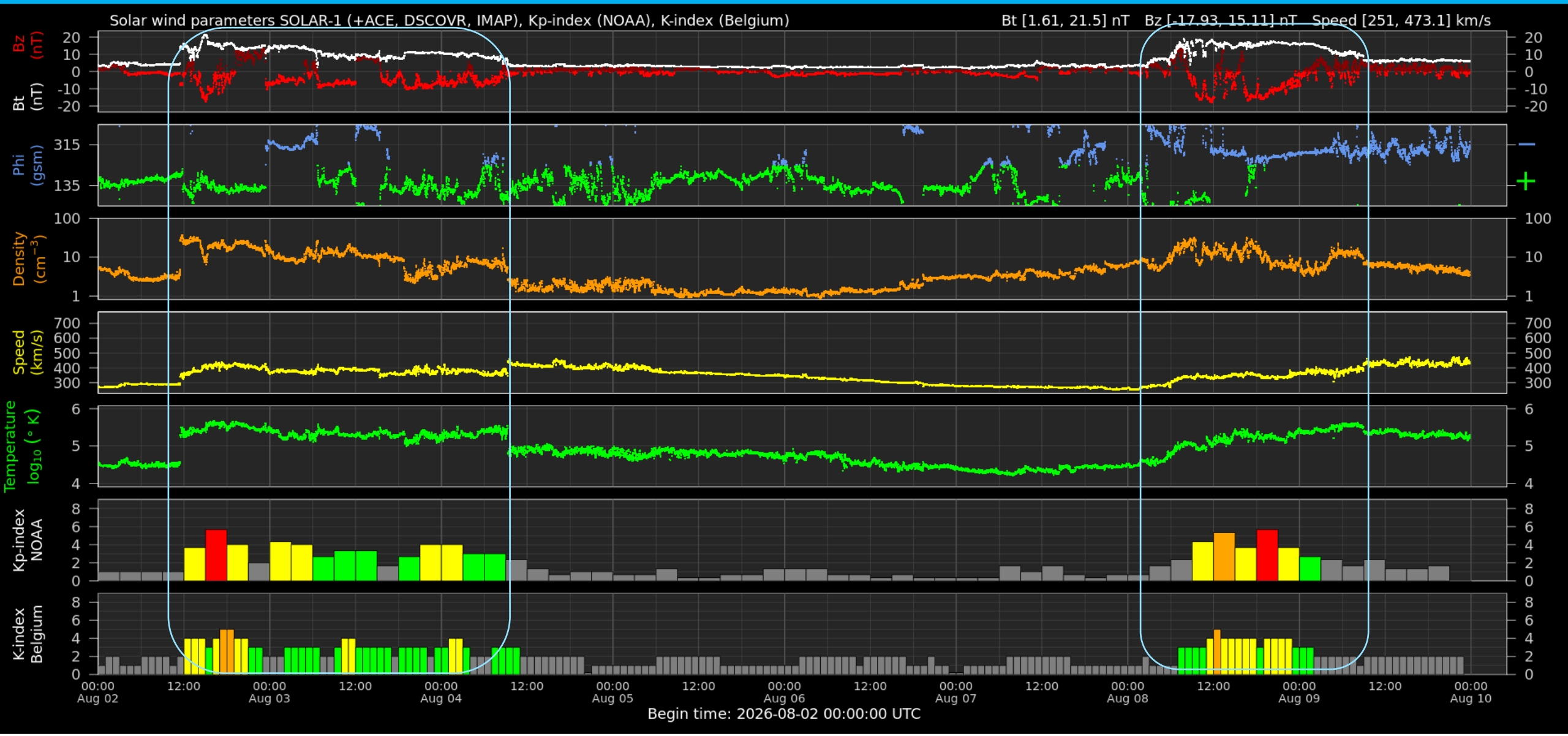
Solar wind parameters



Solar wind parameters & K-indices



Energetic Particles

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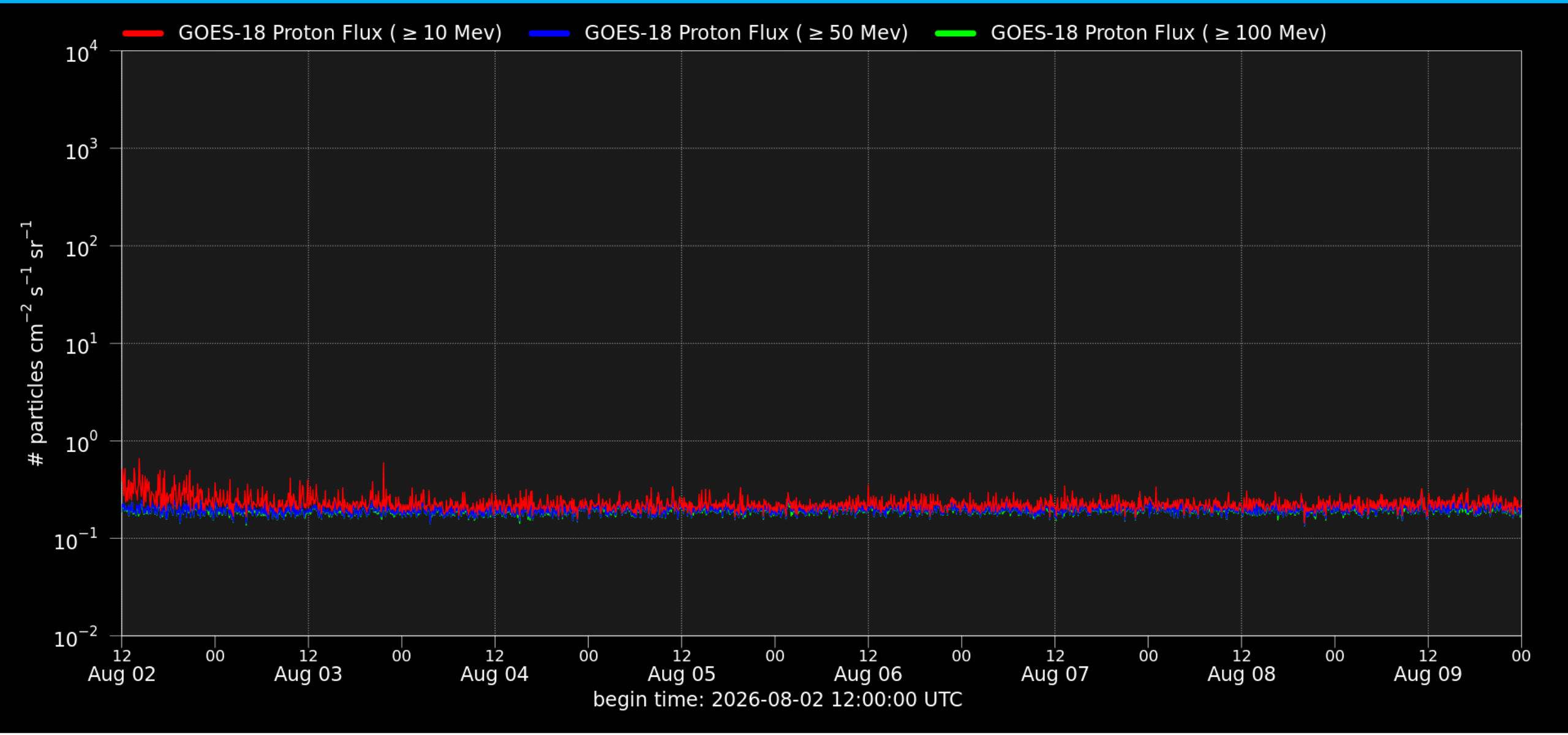
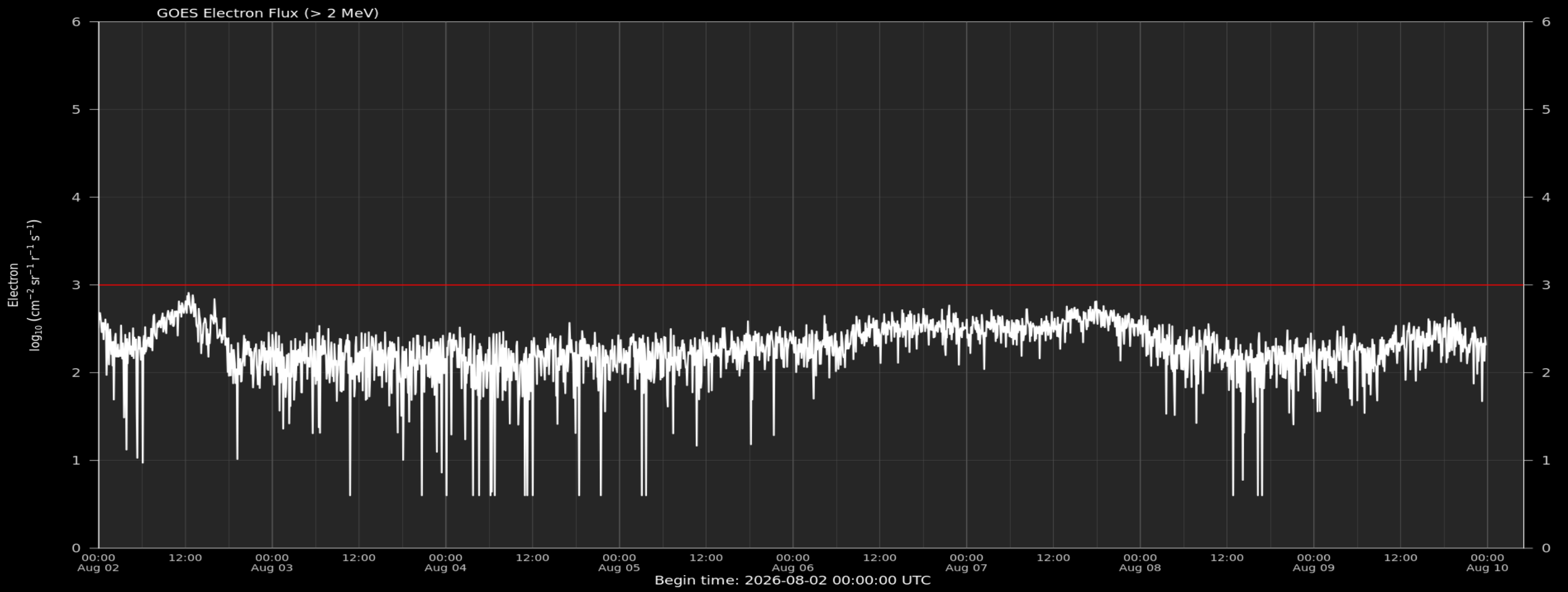
Solar proton flux



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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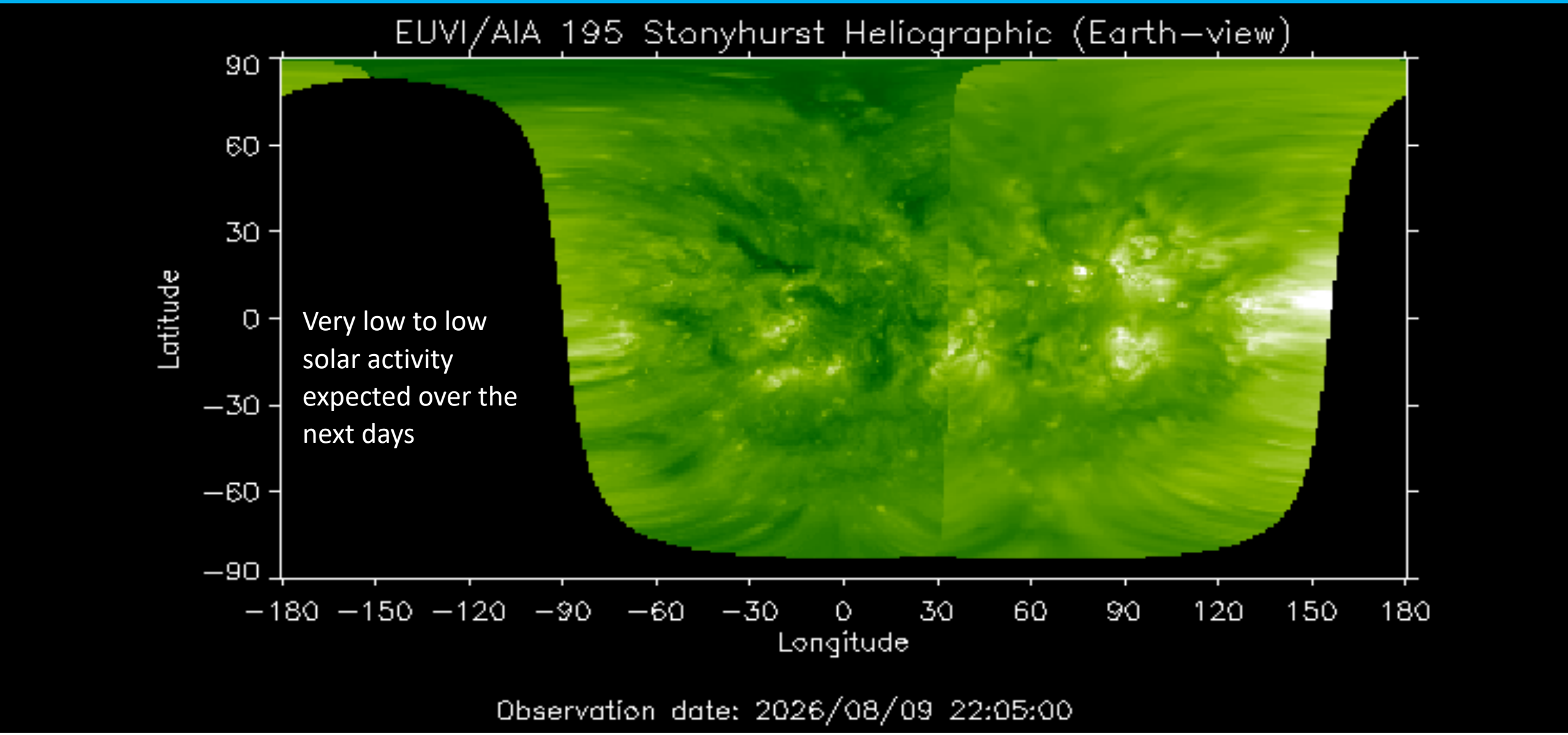
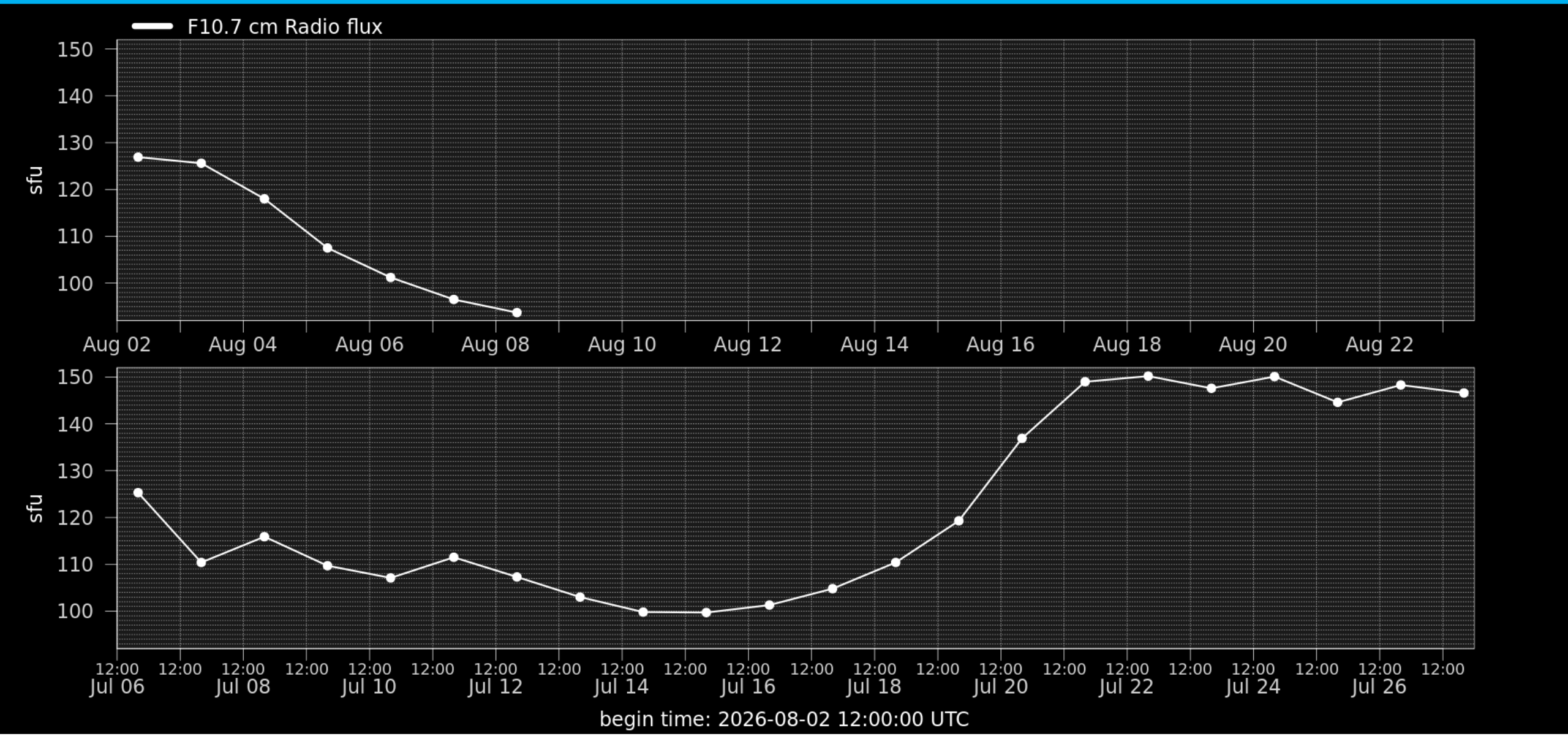
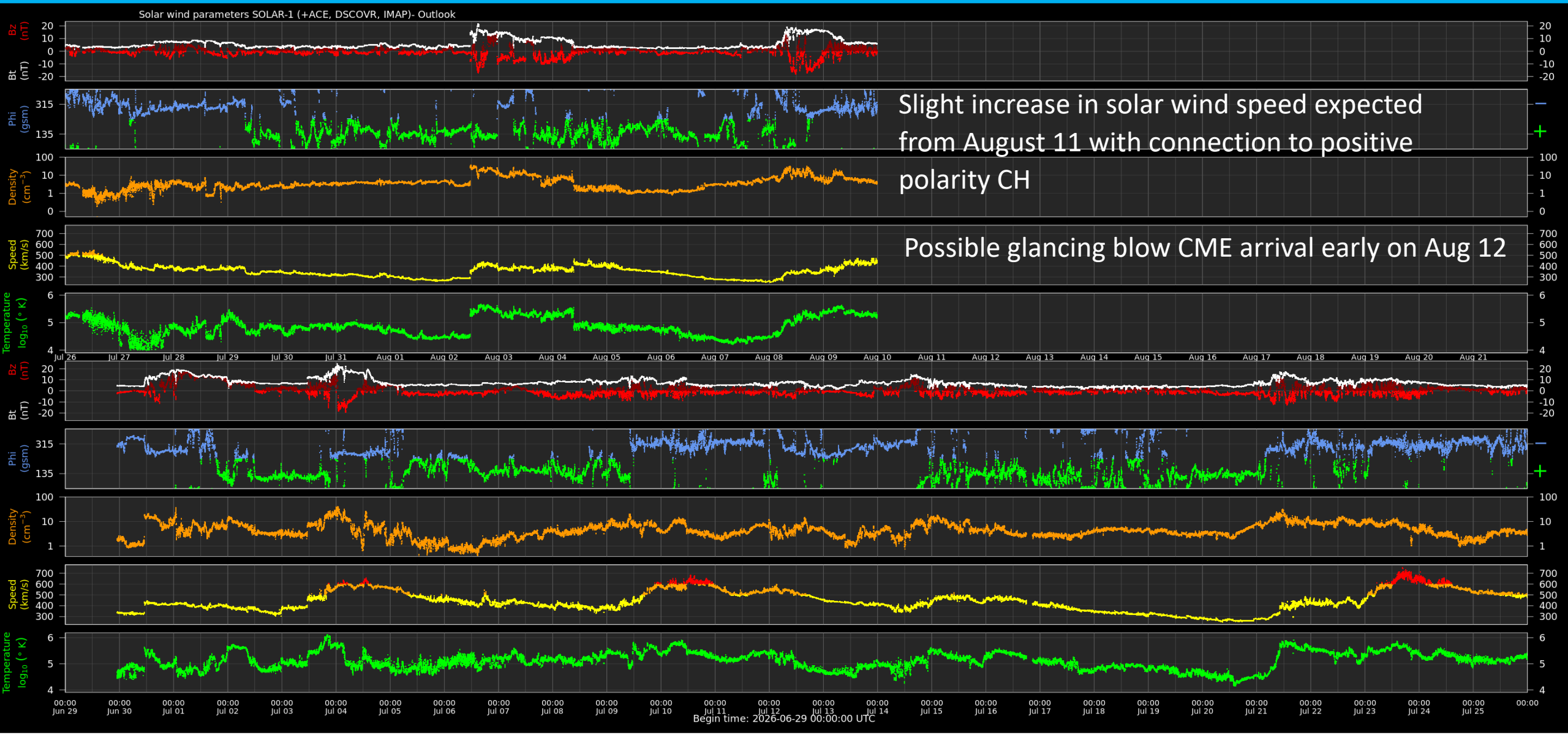
Outlook: Solar activity



Outlook: Solar F10.7cm radio flux



Outlook: Solar wind parameters



Slight increase in solar wind speed expected from August 11 with connection to positive polarity CH

Possible glancing blow CME arrival early on Aug 12

Outlook: Geomagnetic activity

Outlook: Electron Flux at GEO Outlook

PECASUS

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Pecasus related events

PECASUS is Secondary Back Up Centre

- Post Storm Depression event due to Kp 6-

SIDC Space Weather Briefing

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