SIDC Space Weather Briefing

17 August 2026-23 August 2026

Micera Alfredo

& the SIDC forecaster team

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-08-17 00:00 to 2026-08-23 23:59

Active regions	10 numbered regions over the week, most active were SIDC Group 940 (NOAA AR 4507) and SIDC Sunspot Group 929 (NOAA AR 4513)
Flares	# C-class flare: 43 # M-class flare: 4 # X-class flare: 0
Coronal Holes	SIDC CH 142 (-), SIDC CH 149 (-)
CMEs	2 CMEs with possible Earth directed components observed

Proton flux	Below 10 pfu threshold
Electron flux	Normal to moderate

Solar wind and geomagnetic conditions

ICMEs	Possible signatures of a glancing blow on August 18
Solar wind conditions	|B|: 1.56 - 15.82 nT// Bz: -12.18 nT to 12.85 nT// Speed: 293.8 - 630.2 km/s
Geomagnetic conditions	max KBel: 5.0, max Kp(NOAA): 5.33, Minor Storm conditions

All Quiet Alert: Off/Not Quiet

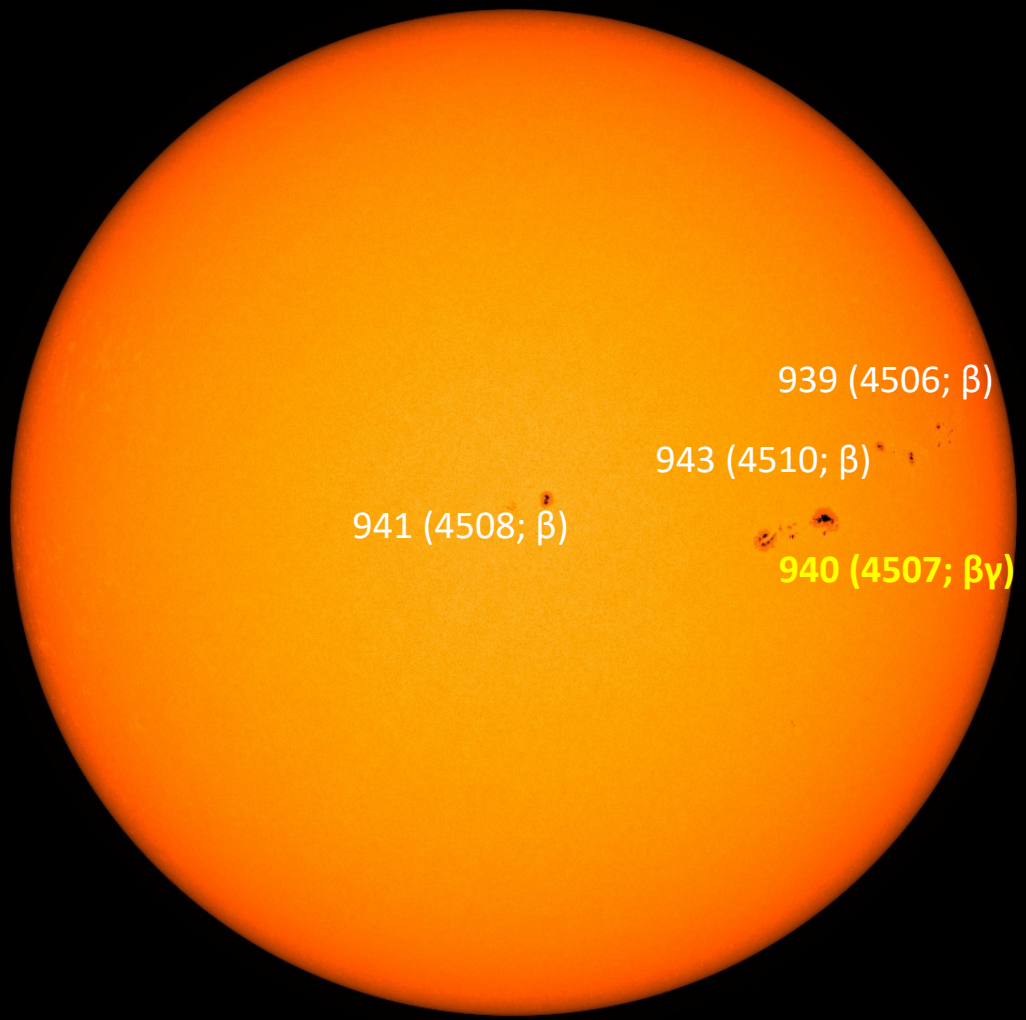
Solar Activity

Royal Observatory
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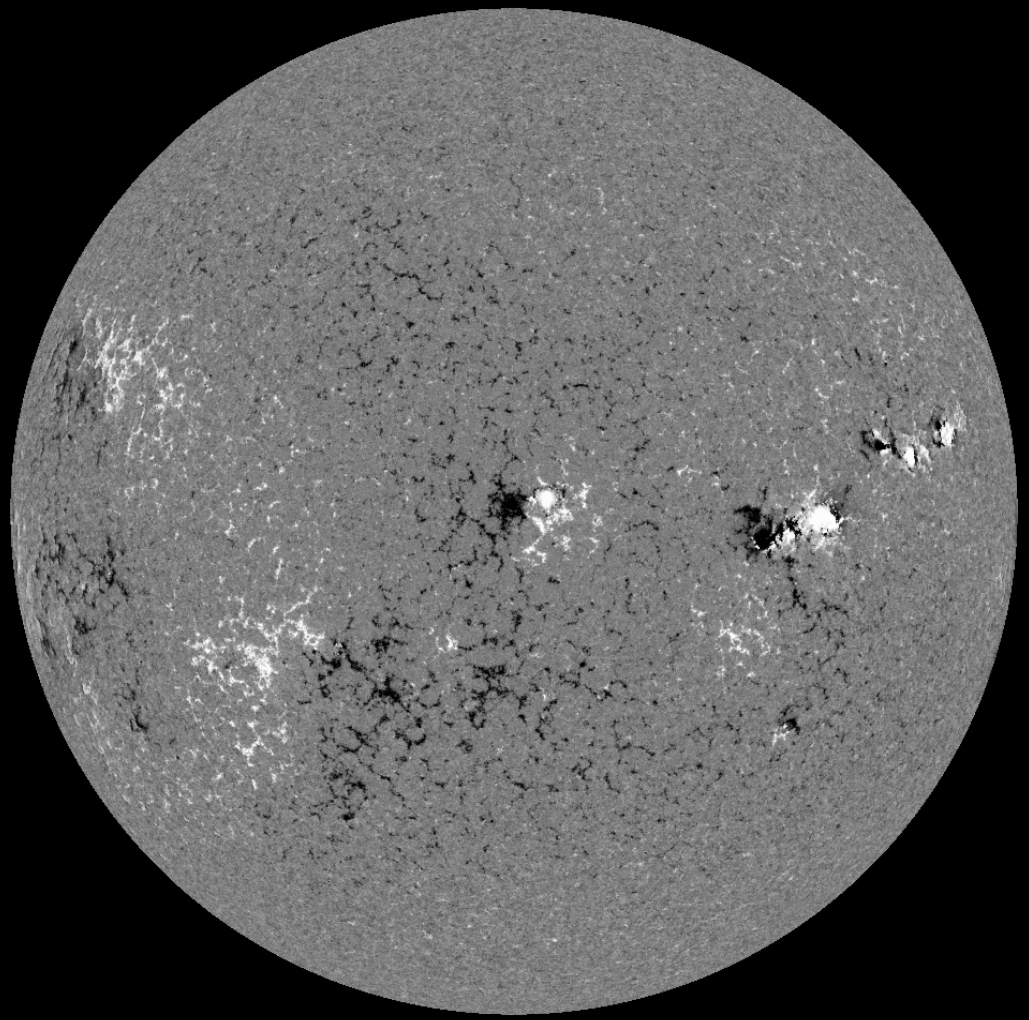
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Solar active regions

SDO/HMI White Light 2026-08-17

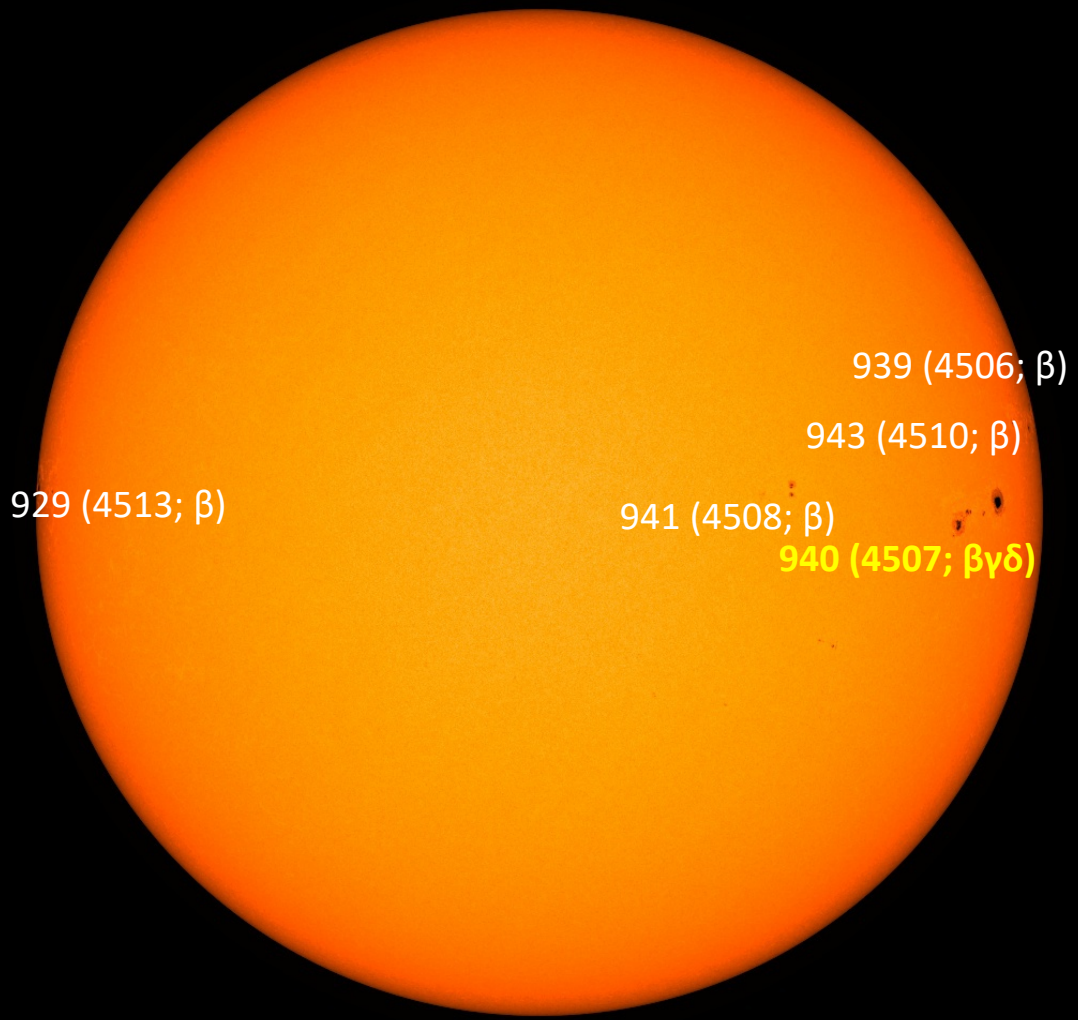


SDO/HMI Magnetogram 2026-08-17

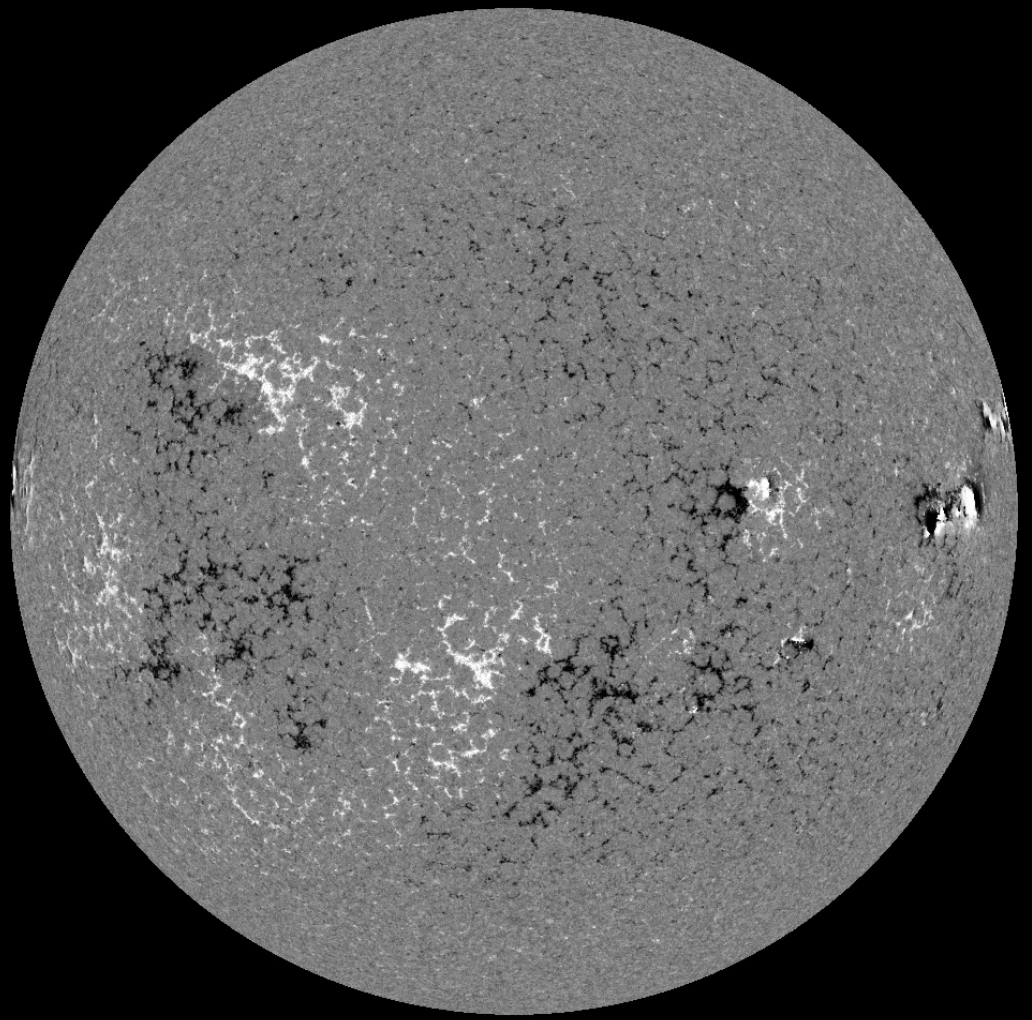


Solar active regions

SDO/HMI White Light 2026-08-19

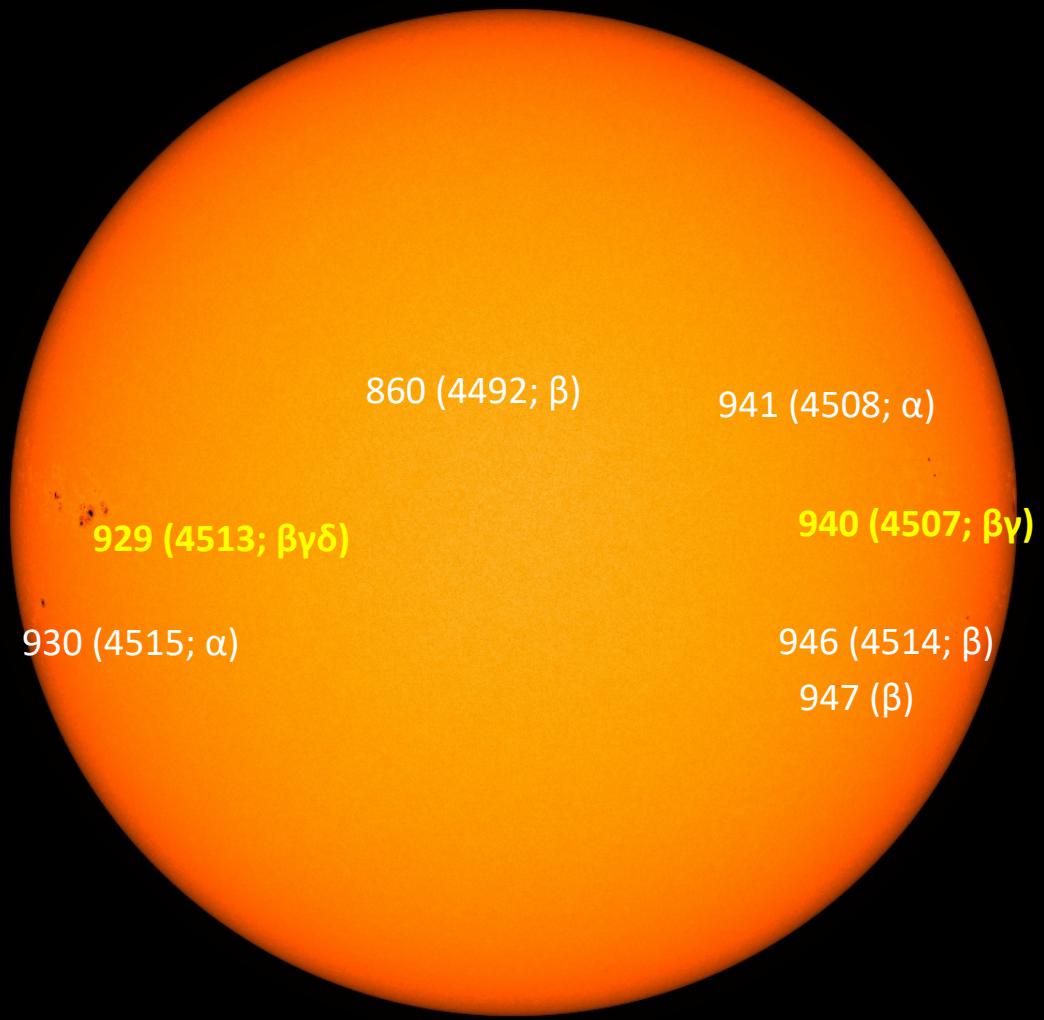


SDO/HMI Magnetogram 2026-08-19

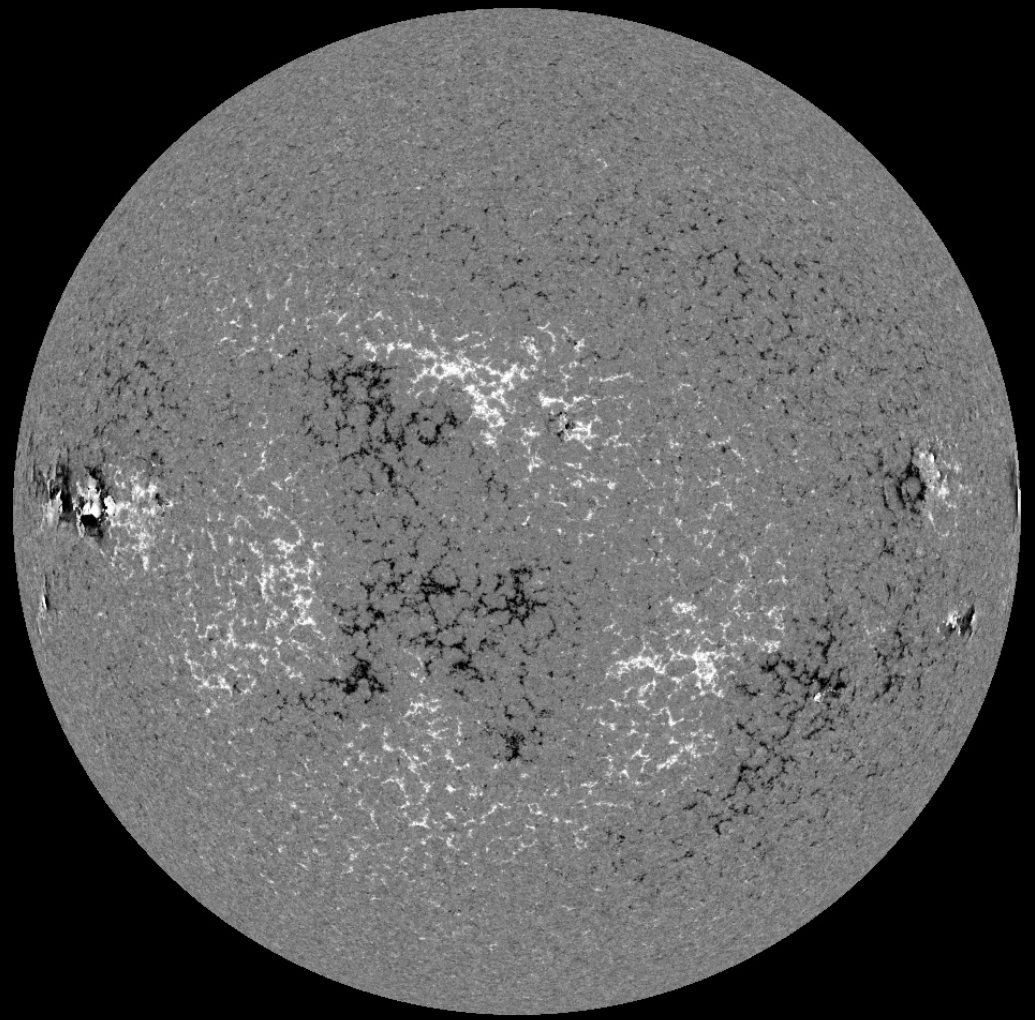


Solar active regions

SDO/HMI White Light 2026-08-21

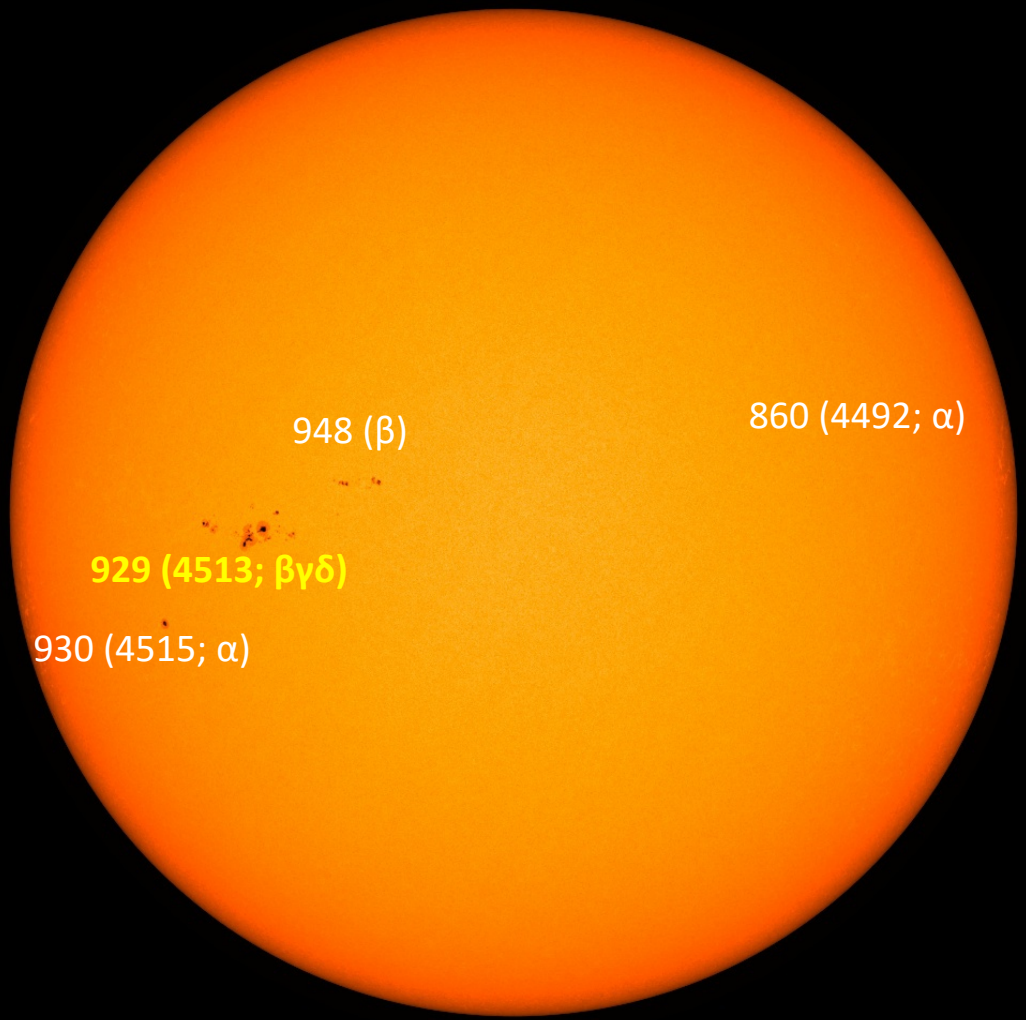


SDO/HMI Magnetogram 2026-08-21

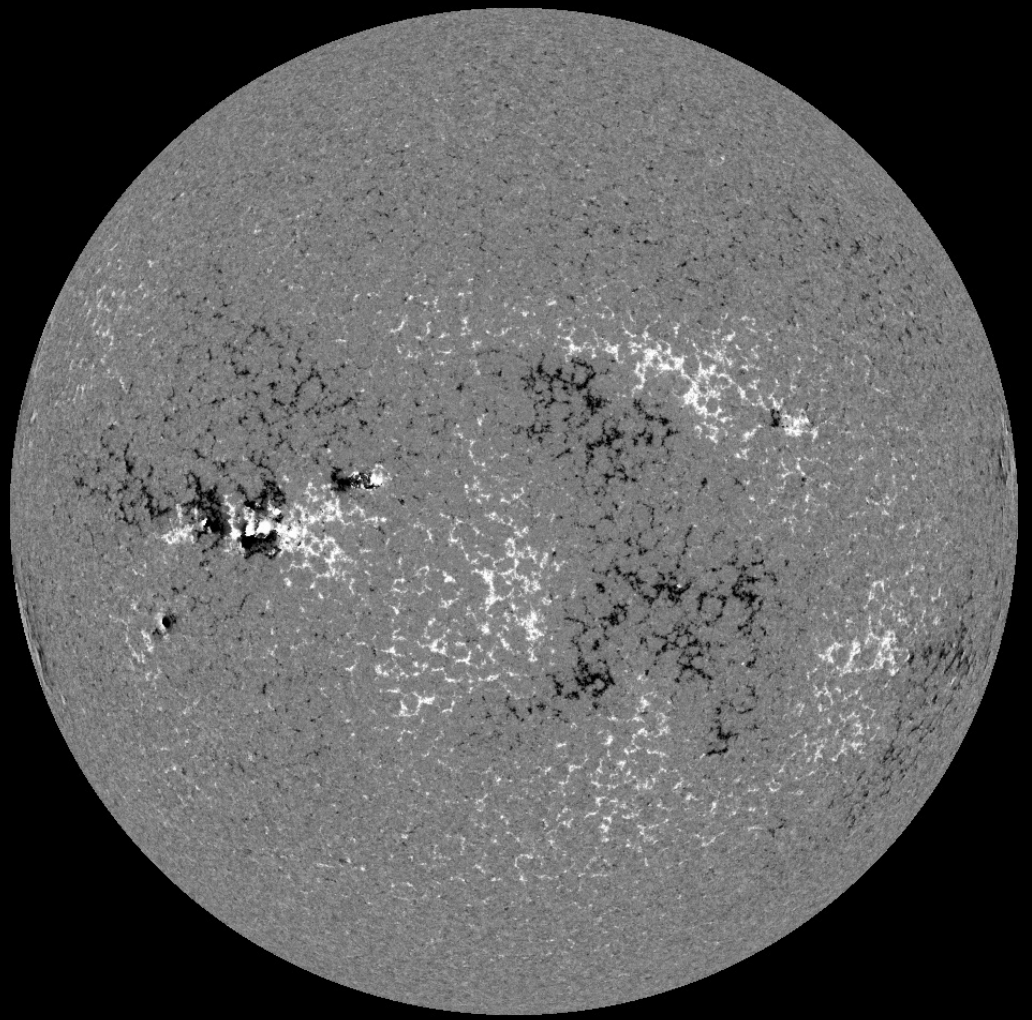


Solar active regions

SDO/HMI White Light 2026-08-23

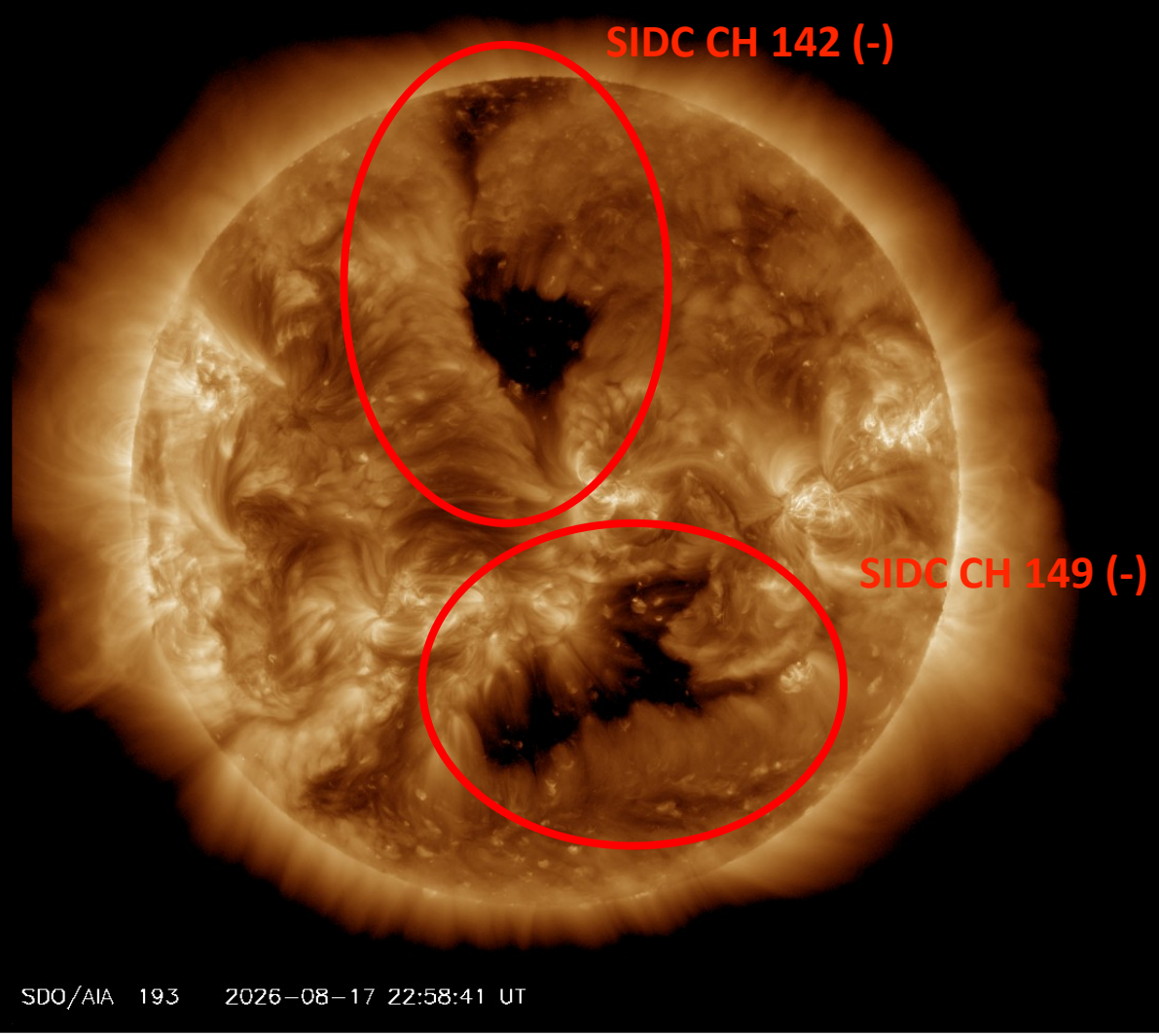


SDO/HMI Magnetogram 2026-08-23

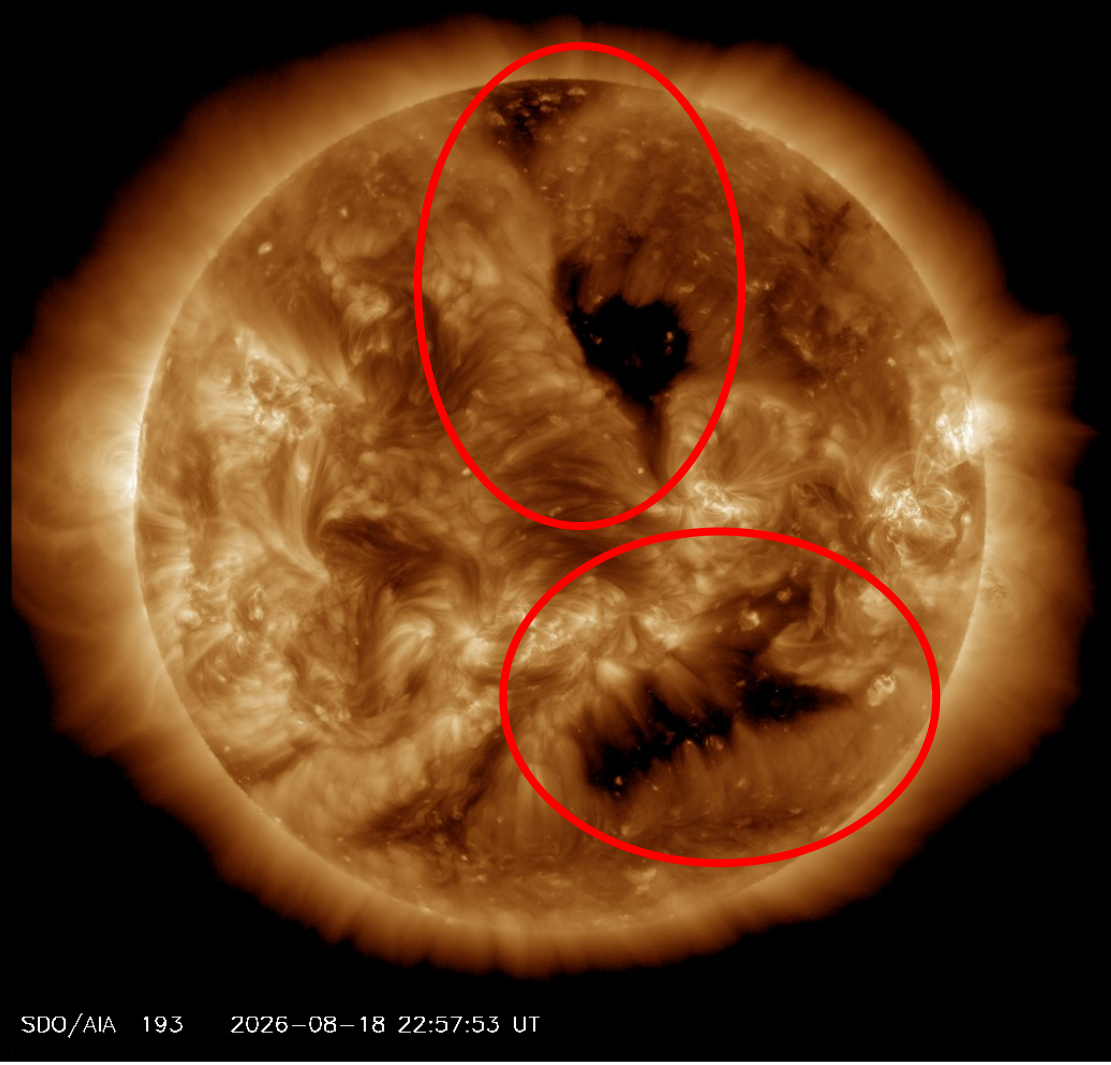


Coronal holes

SDO/AIA 19.3 nm 2026-08-17

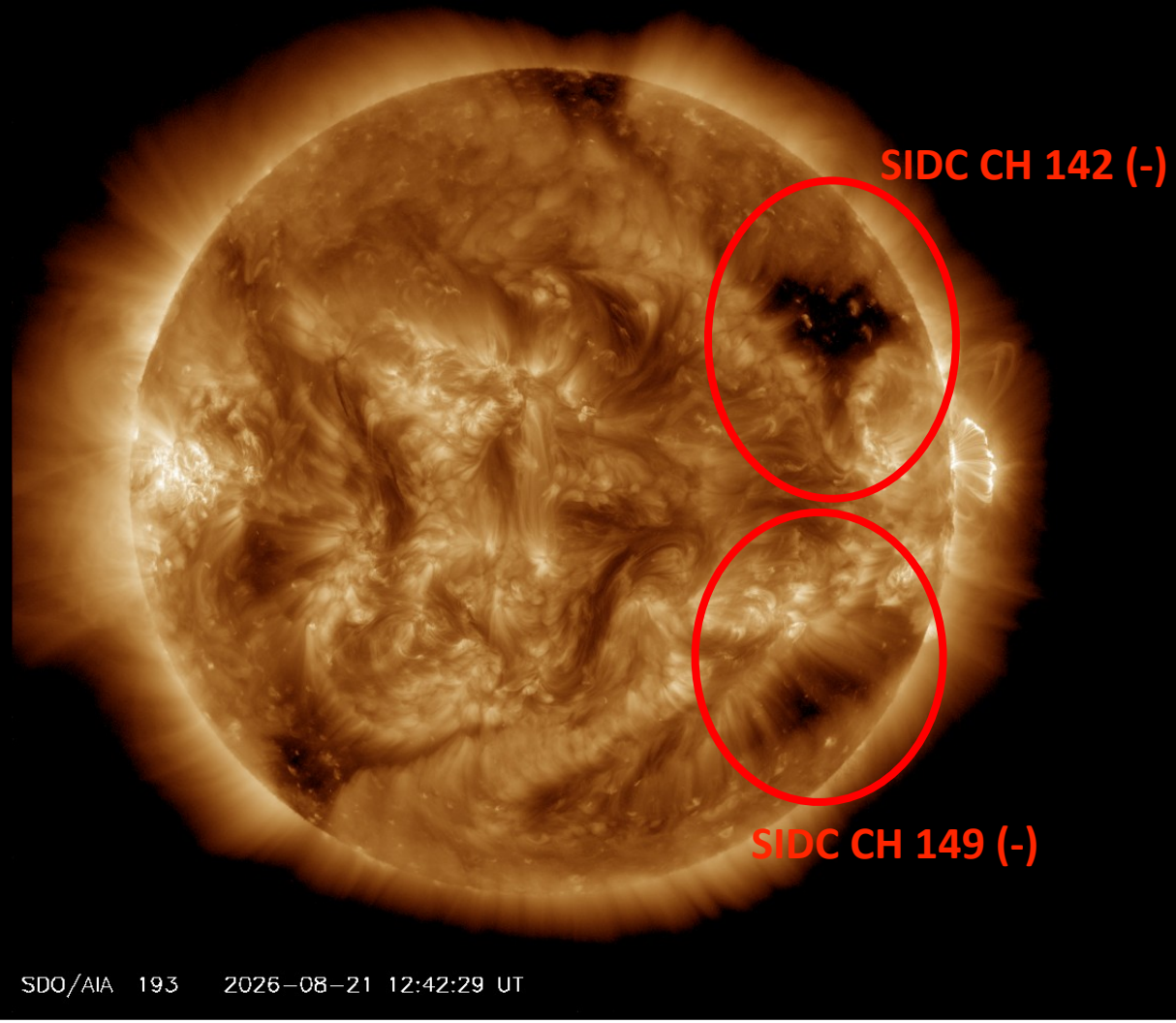


SDO/AIA 19.3 nm 2026-08-18

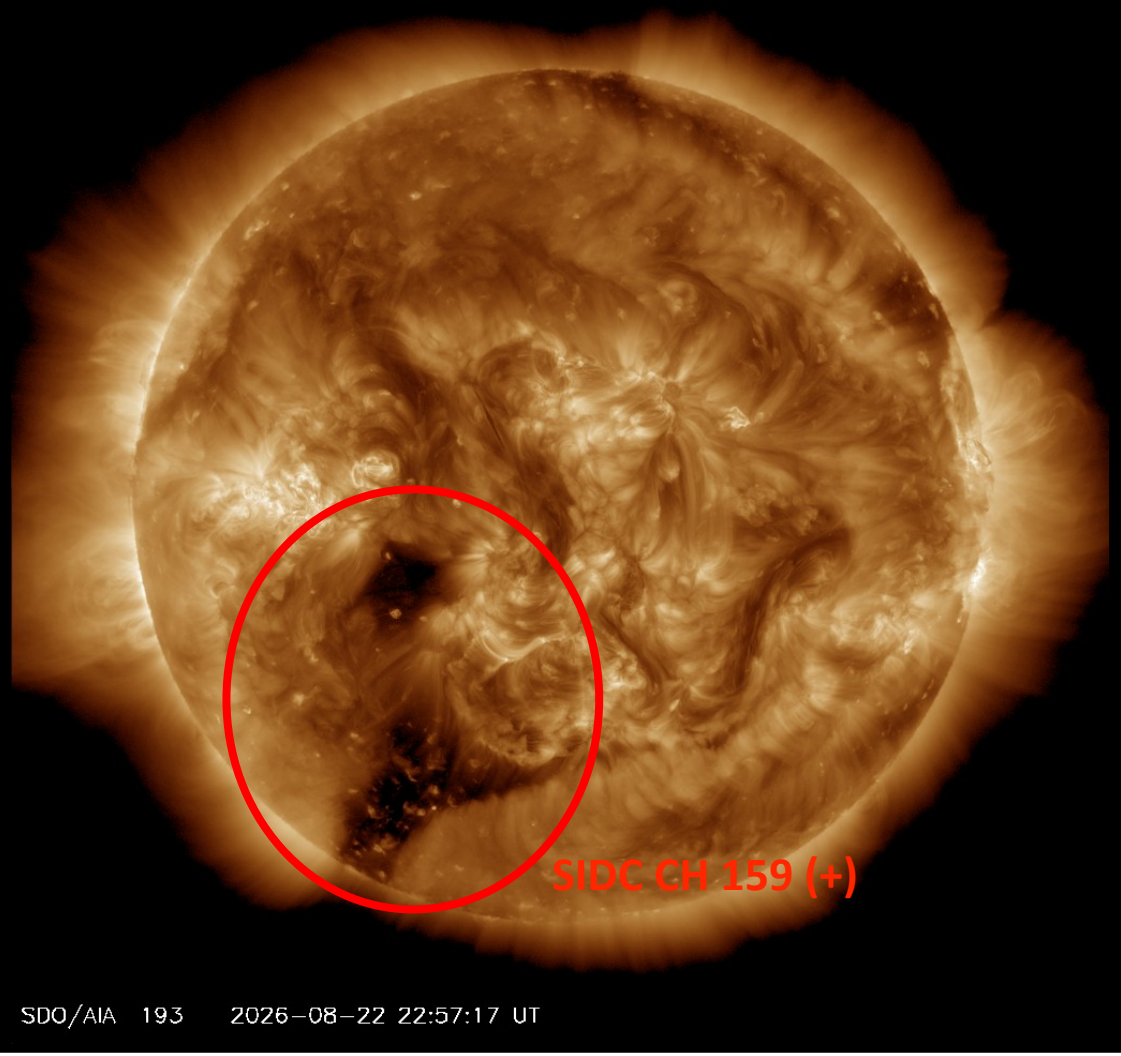


Coronal holes

SDO/AIA 19.3 nm 2026-08-21

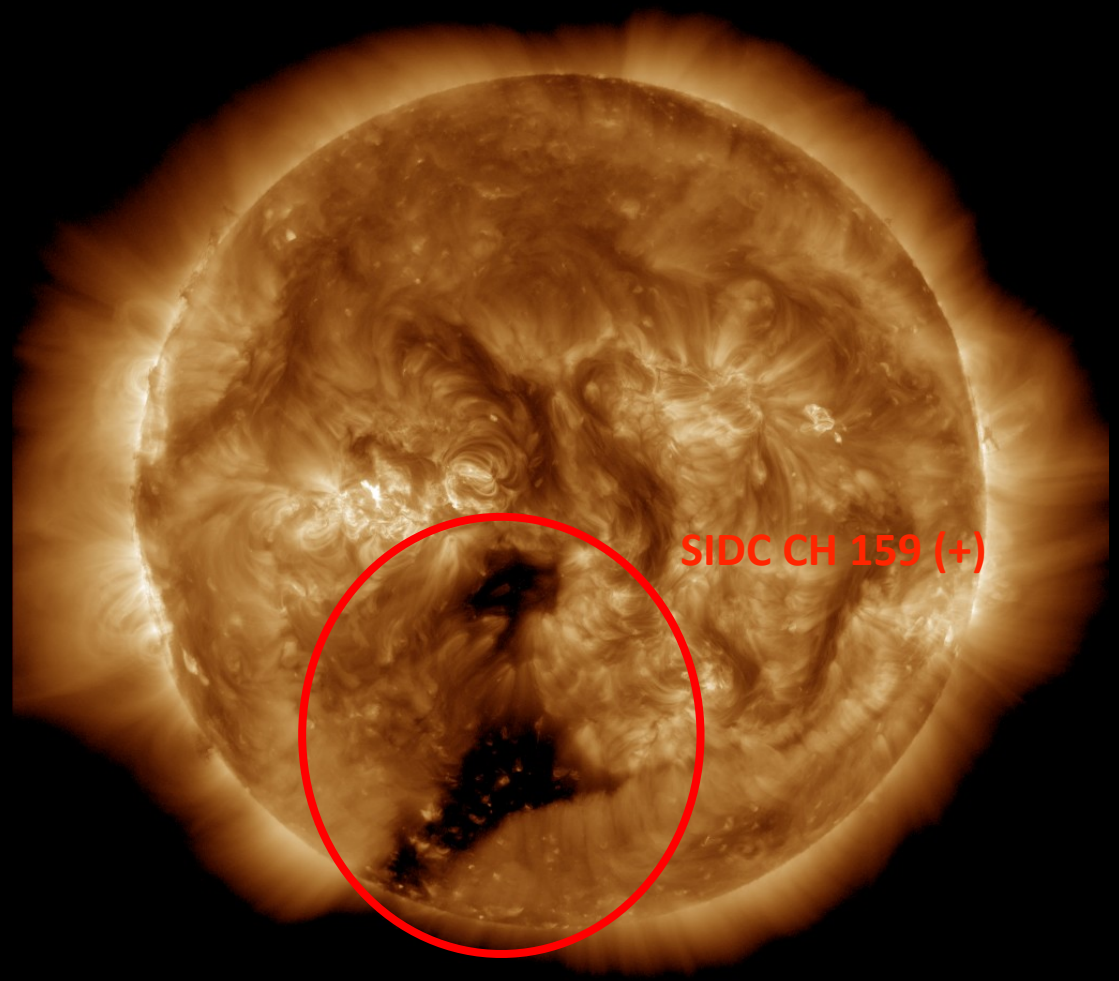


SDO/AIA 19.3 nm 2026-08-22

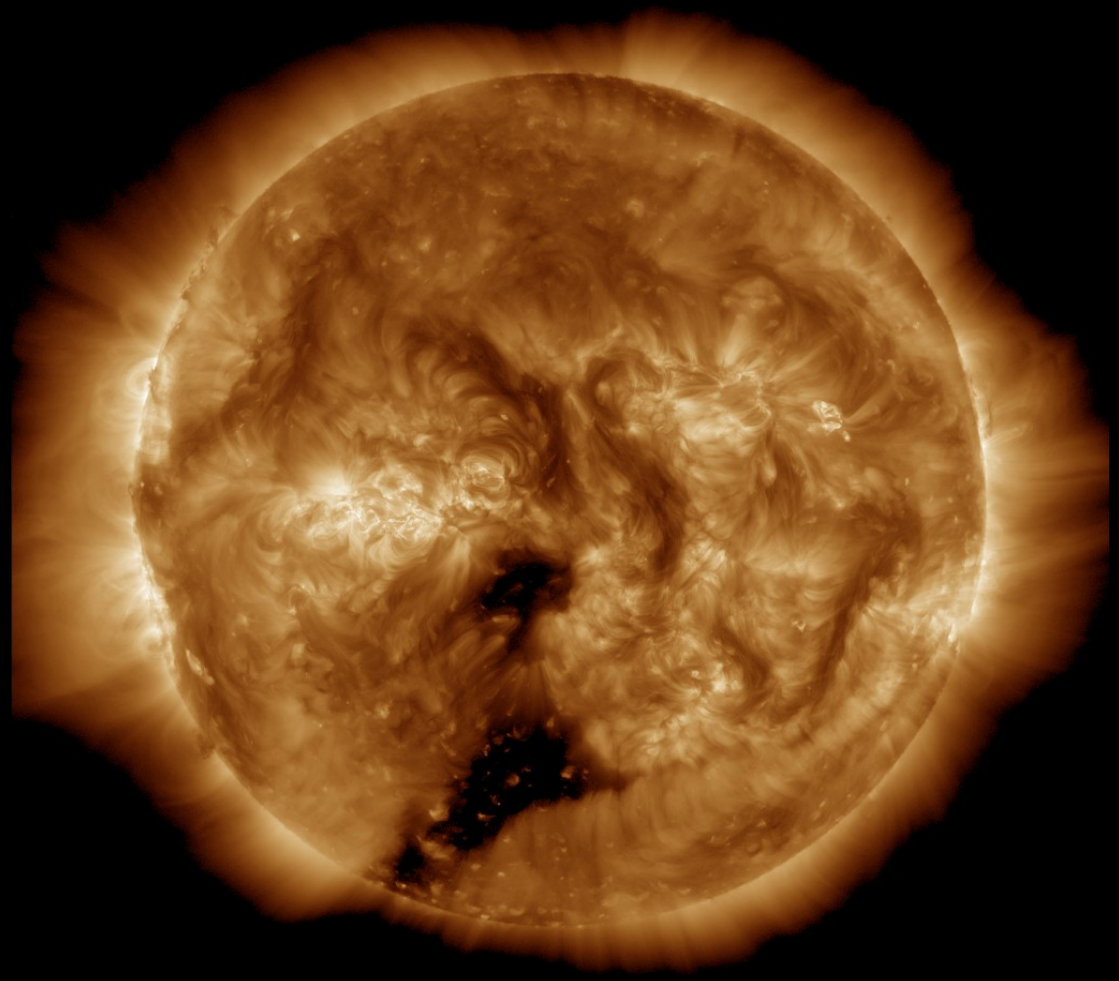


Coronal holes

SDO/AIA 19.3 nm 2026-08-23

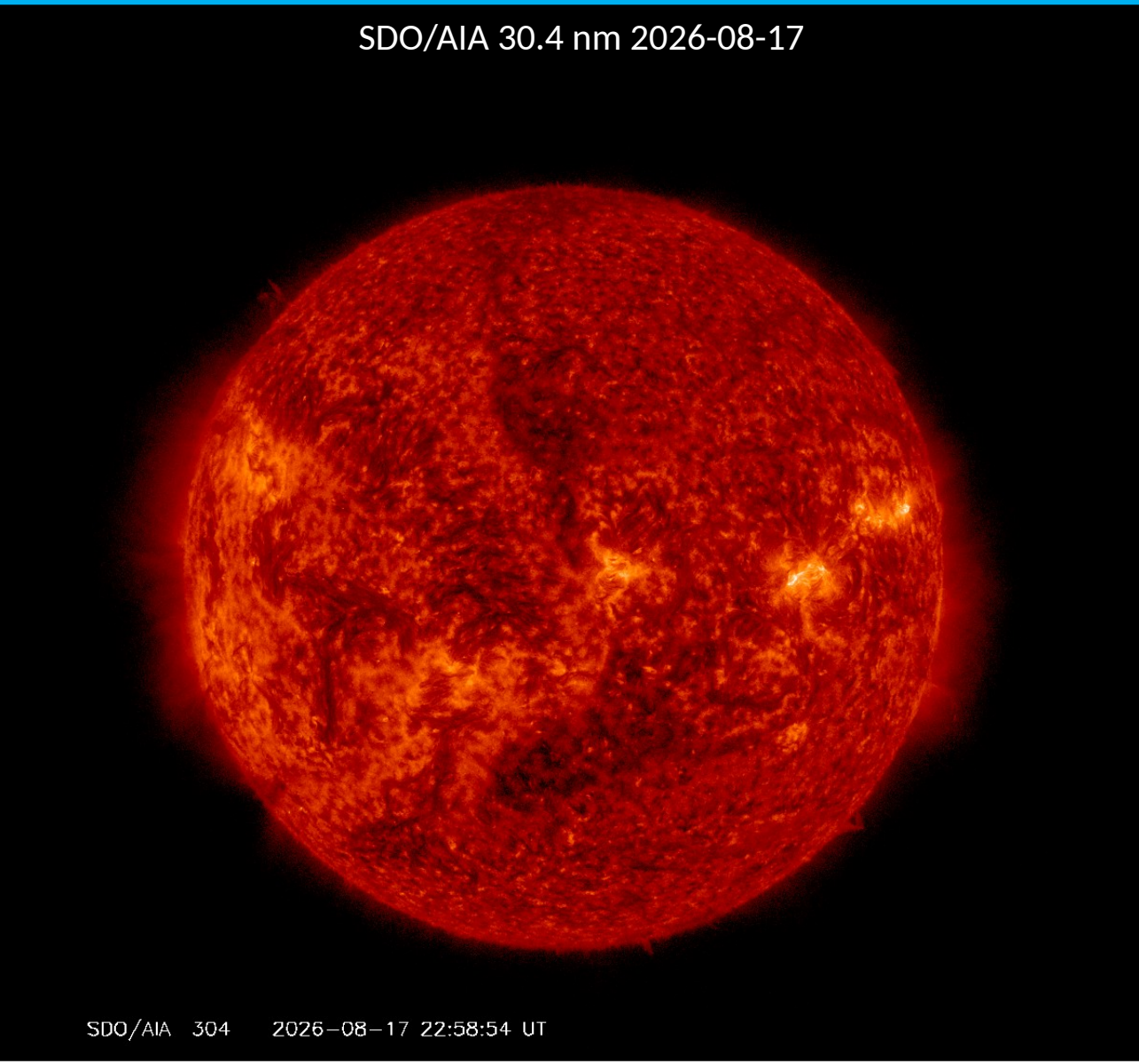


SDO/AIA 19.3 nm 2026-08-24

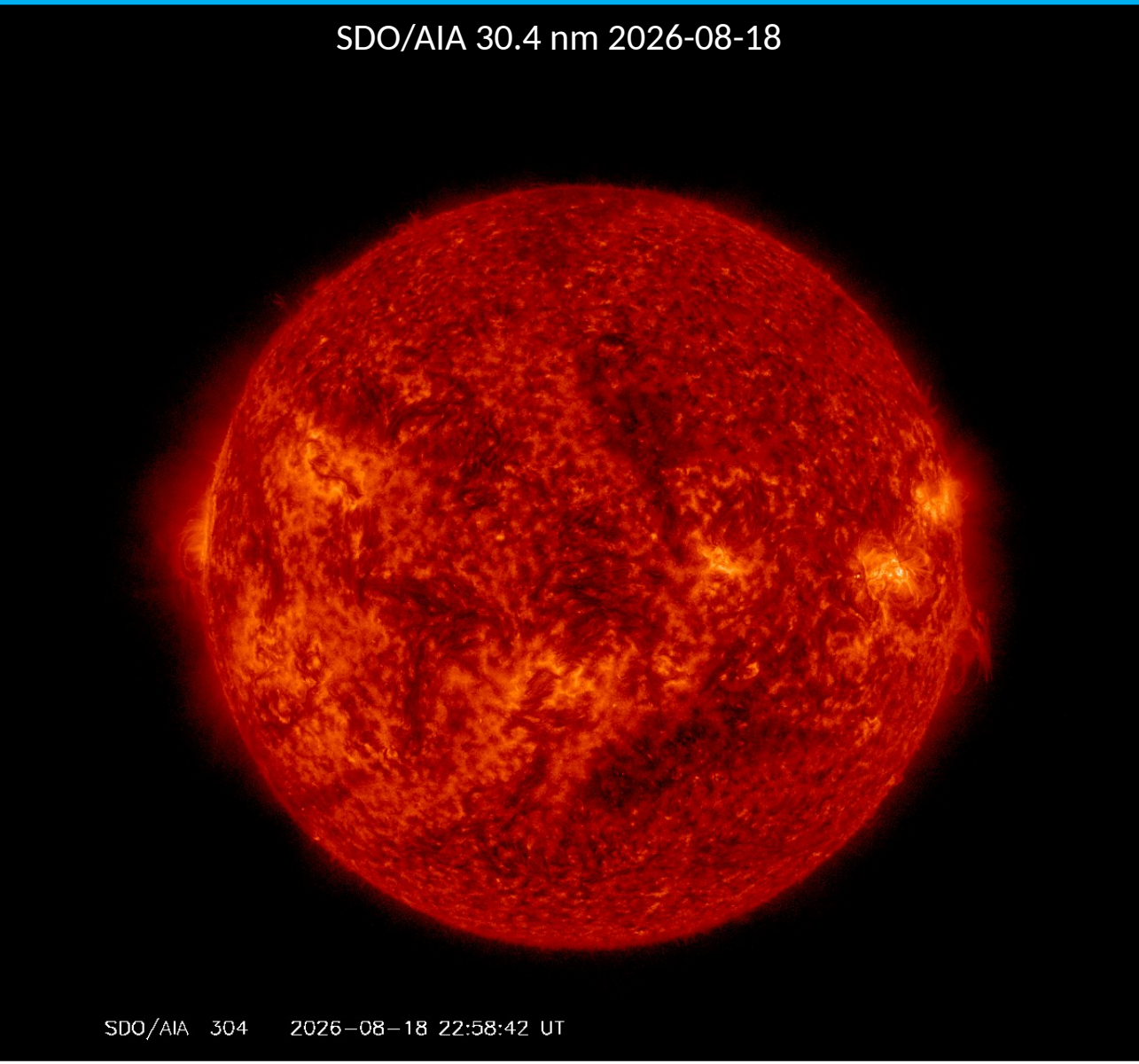


Filaments

SDO/AIA 30.4 nm 2026-08-17

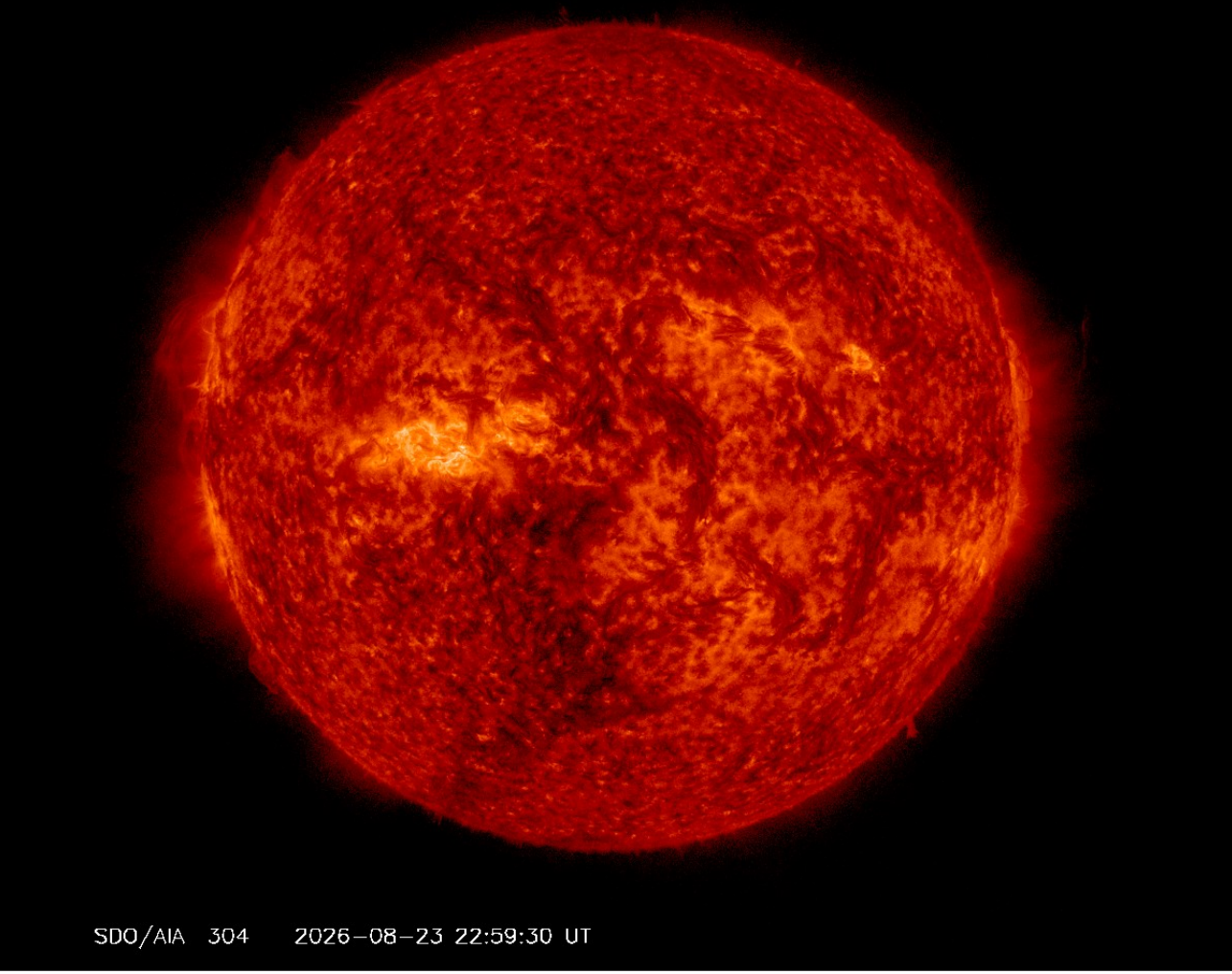


SDO/AIA 30.4 nm 2026-08-18

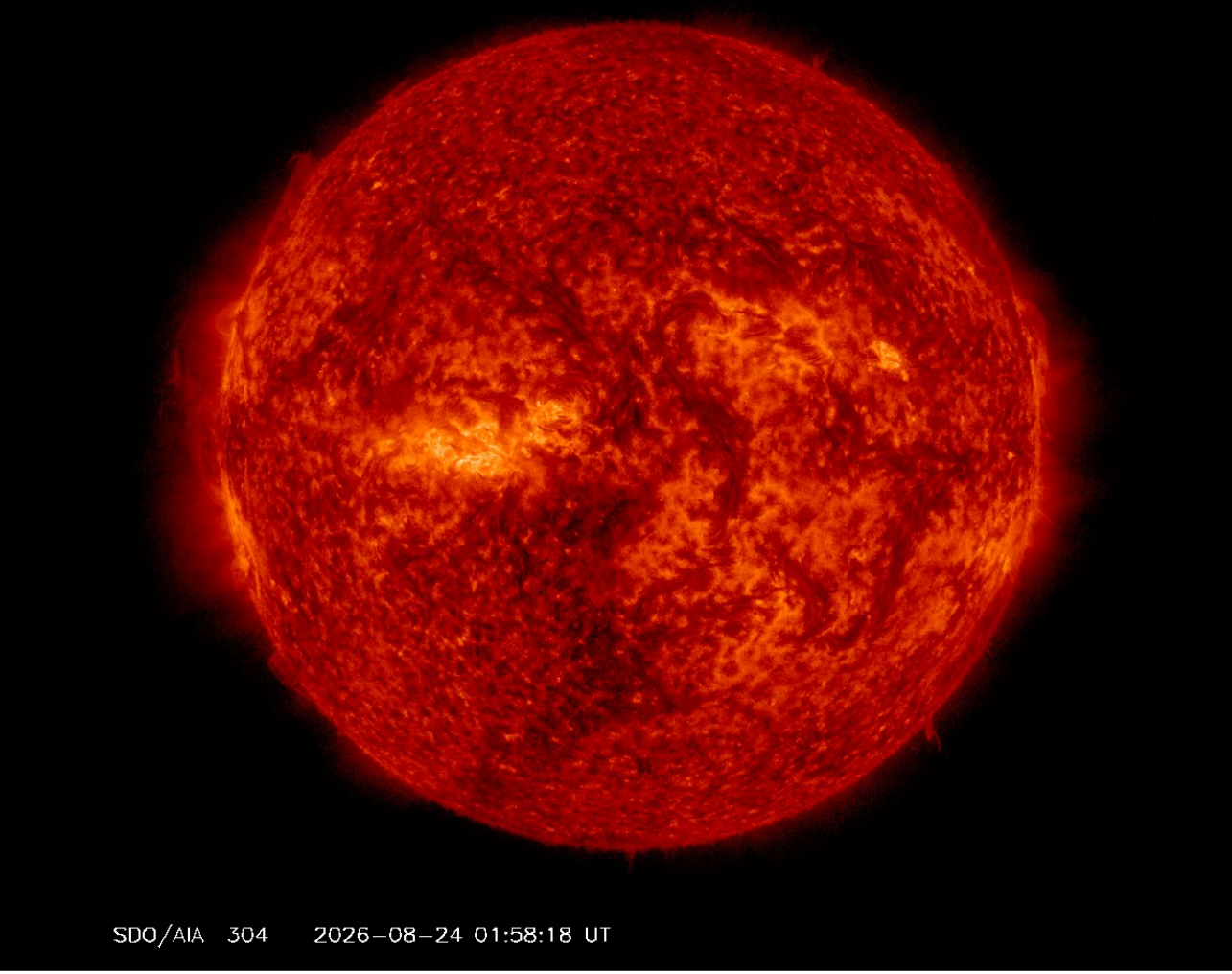


Filaments

SDO/AIA 30.4 nm 2026-08-23

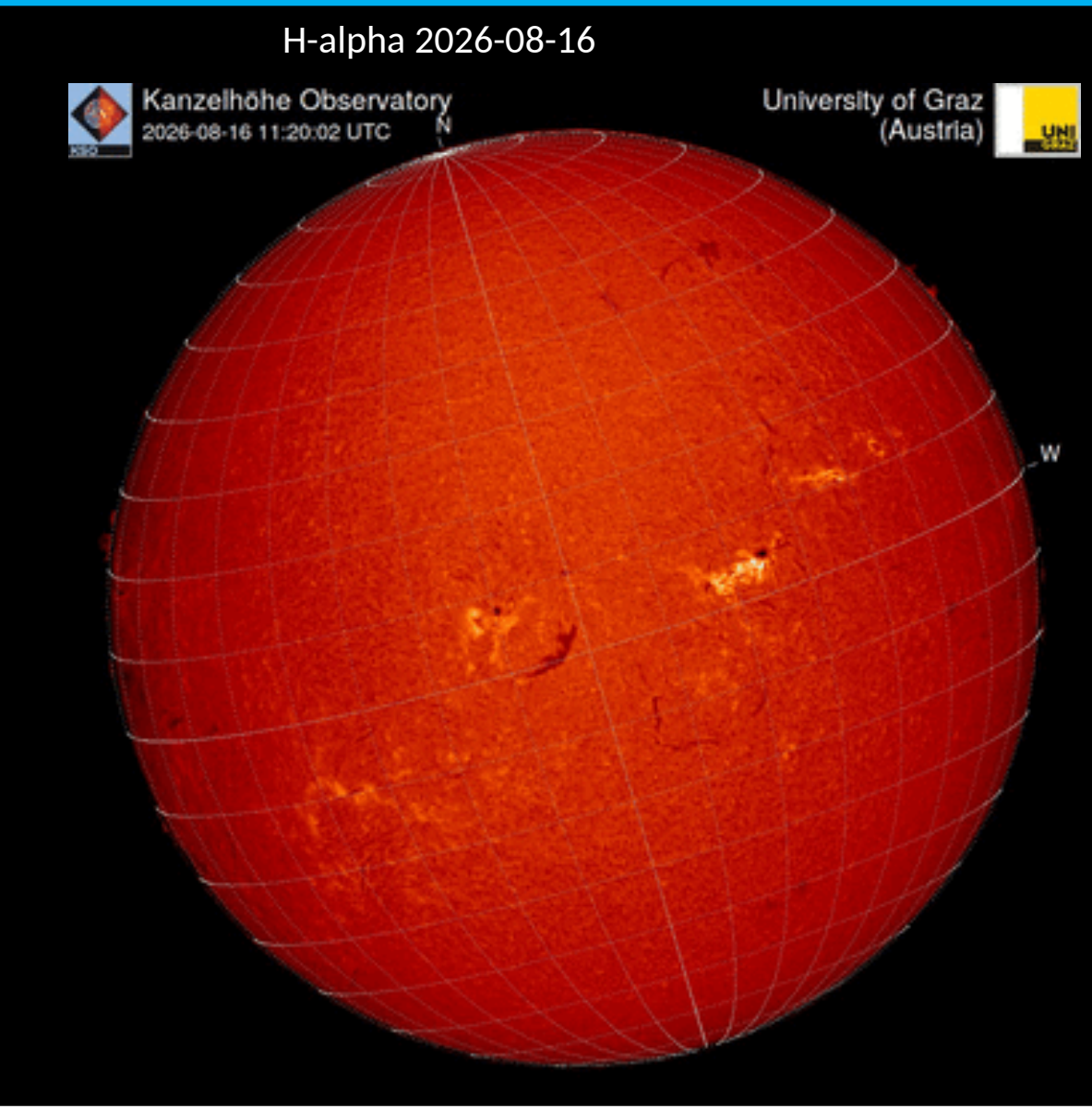


SDO/AIA 30.4 nm 2026-08-24

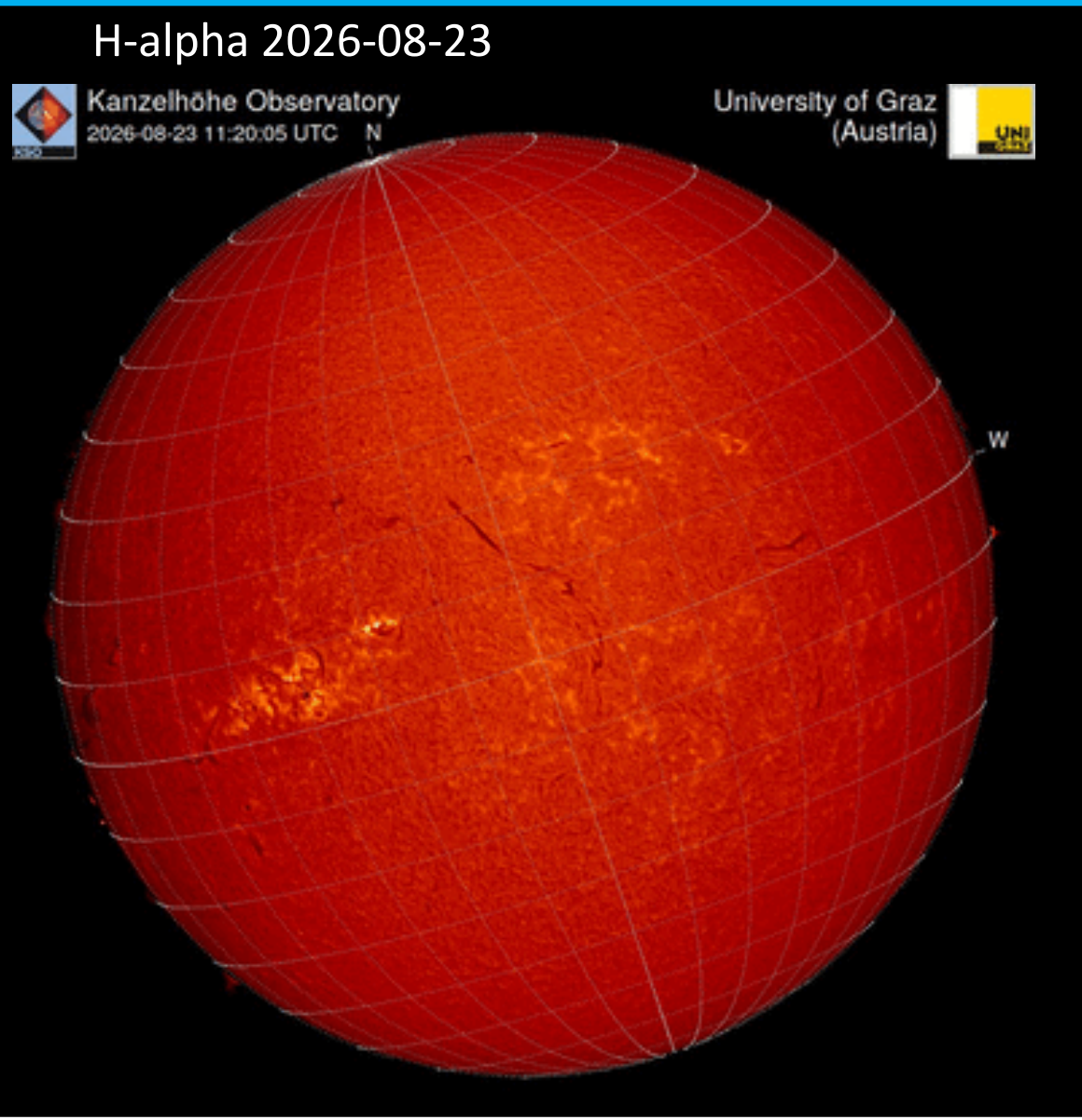


Filaments & Filament eruptions

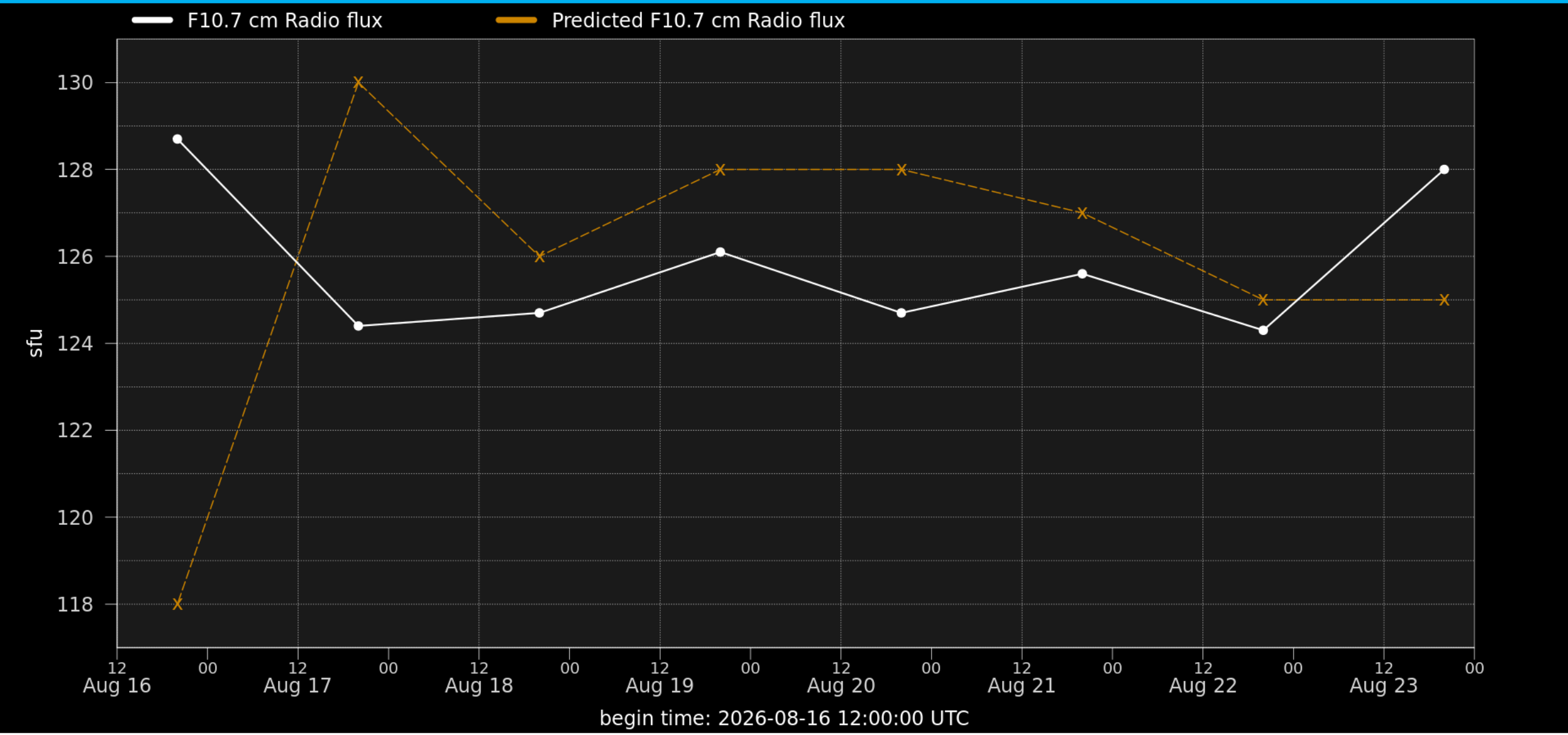
H-alpha 2026-08-16



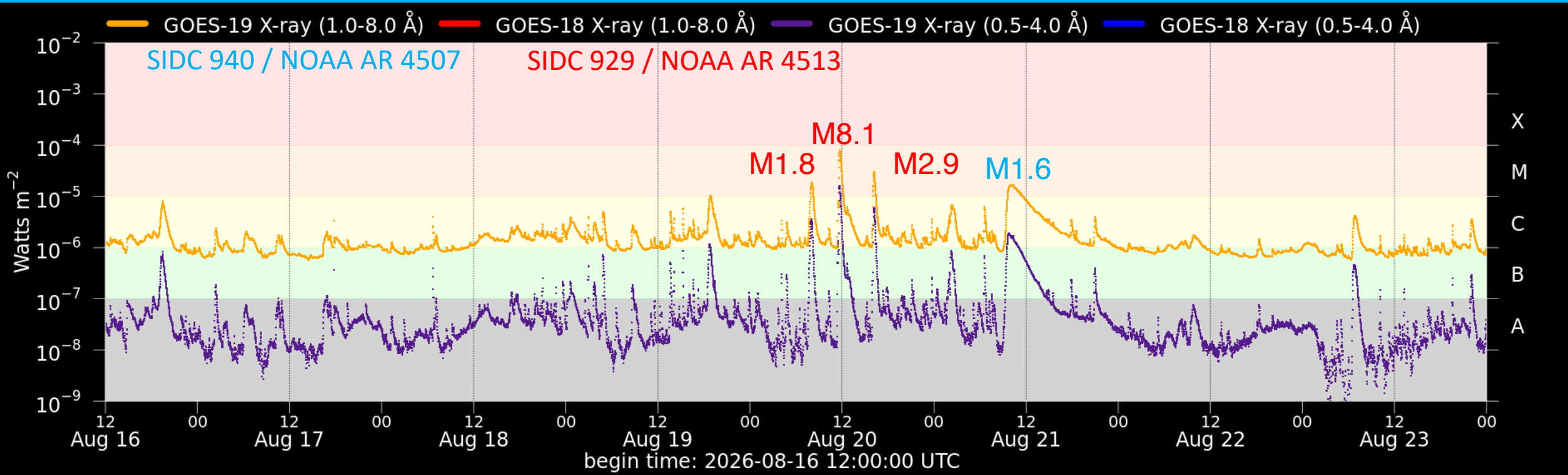
H-alpha 2026-08-23



Solar F10.7cm radio flux



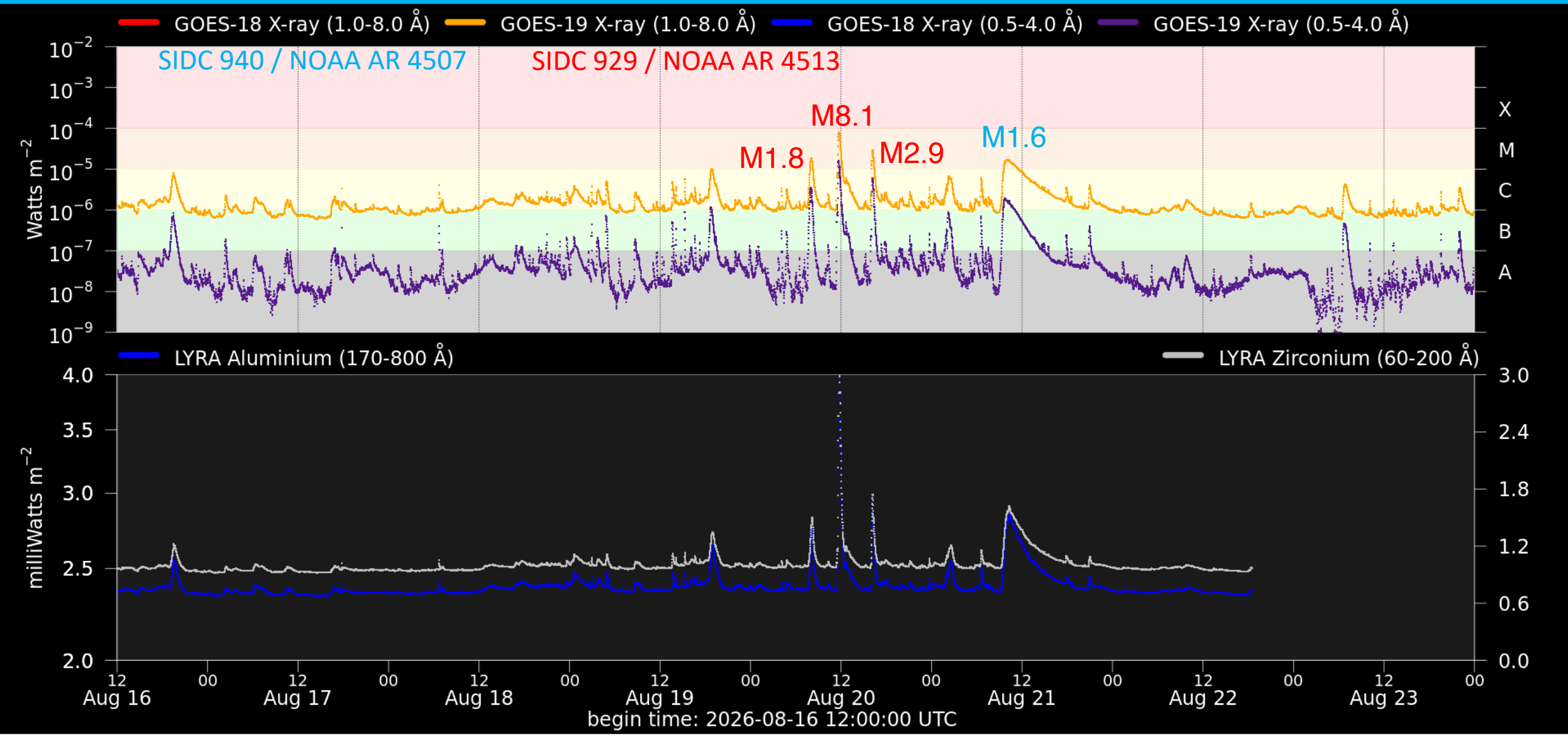
Flaring activity



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

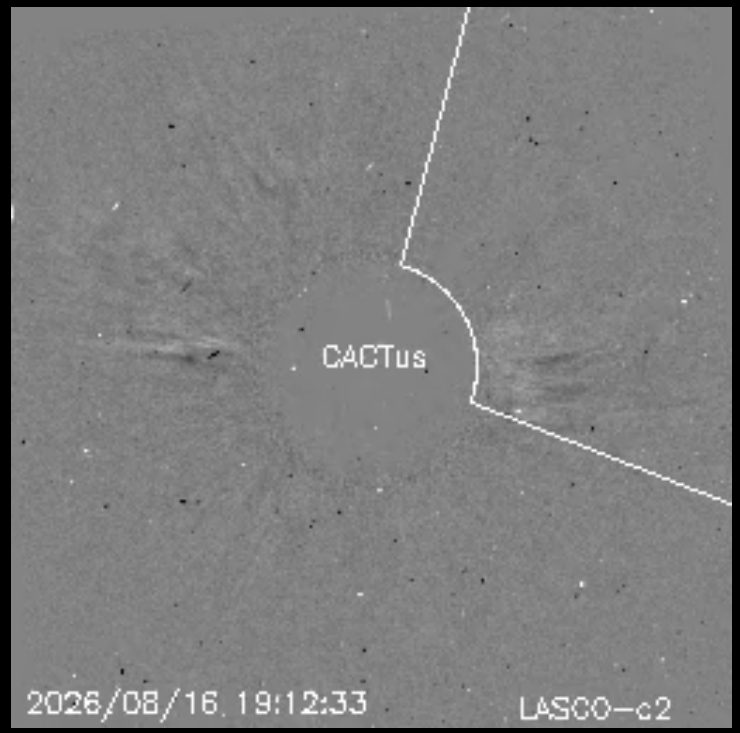
Issue date	2026-08-16	2026-08-17	2026-08-18	2026-08-19	2026-08-20	2026-08-21	2026-08-22	2026-08-23
Probability (%)	99|05|01	94|40|02	97|47|02	94|40|02	97|43|07	99|77|12	99|76|10	96|67|10
Observed (#)	04|00|00	04|00|00	09|00|00	10|03|00	07|01|00	02|00|00	03|00|00	04|00|00

Solar X-Ray and UV flux

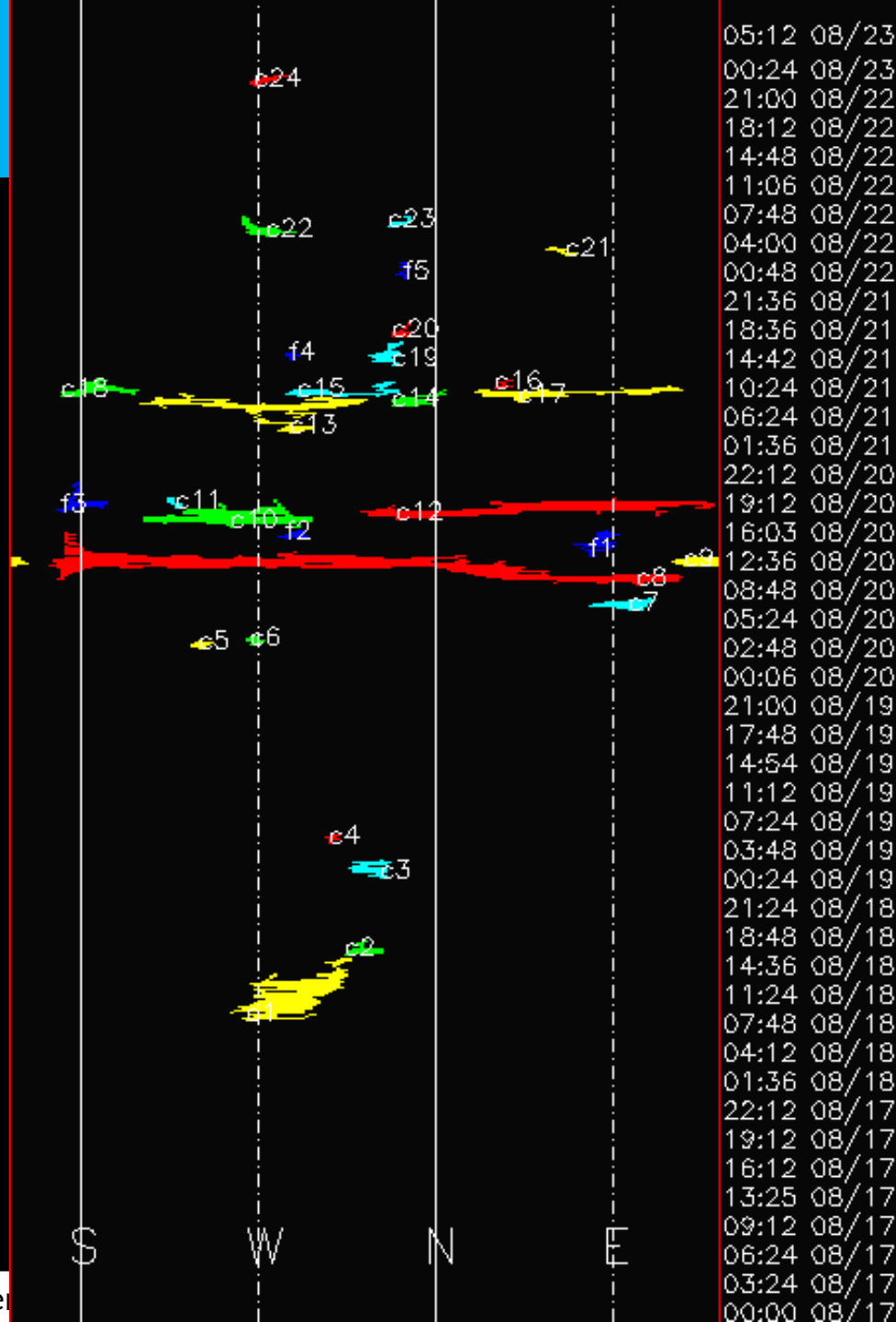


Coronal Mass Ejections

SIDC CME 710

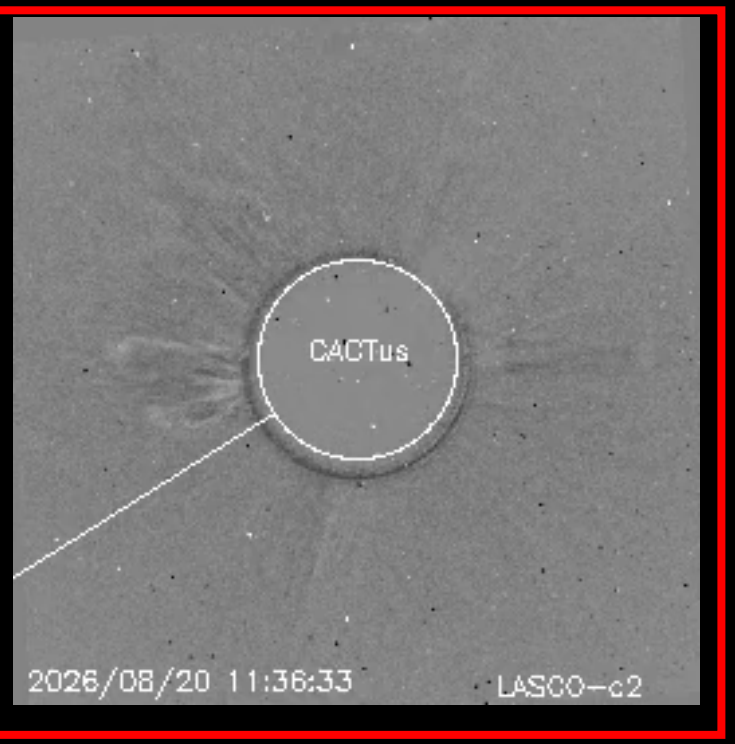


A wide, mainly westward CME **associated with a C8.2 flare from SIDC Sunspot Group 939** on 16 August. A small chance of a glancing blow at Earth was predicted for late 20 August, but no clear arrival was observed.



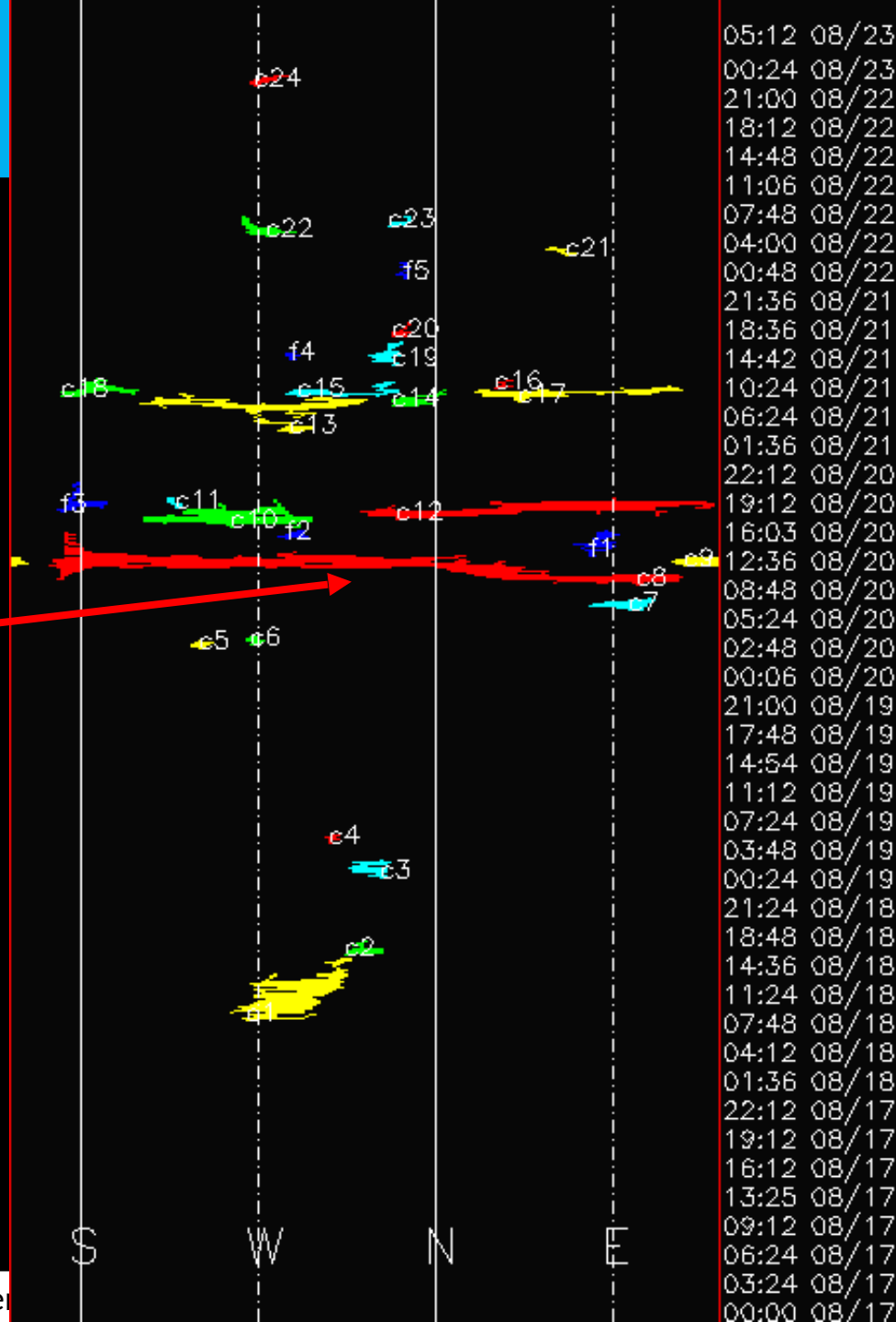
Coronal Mass Ejections

SIDC CME 711



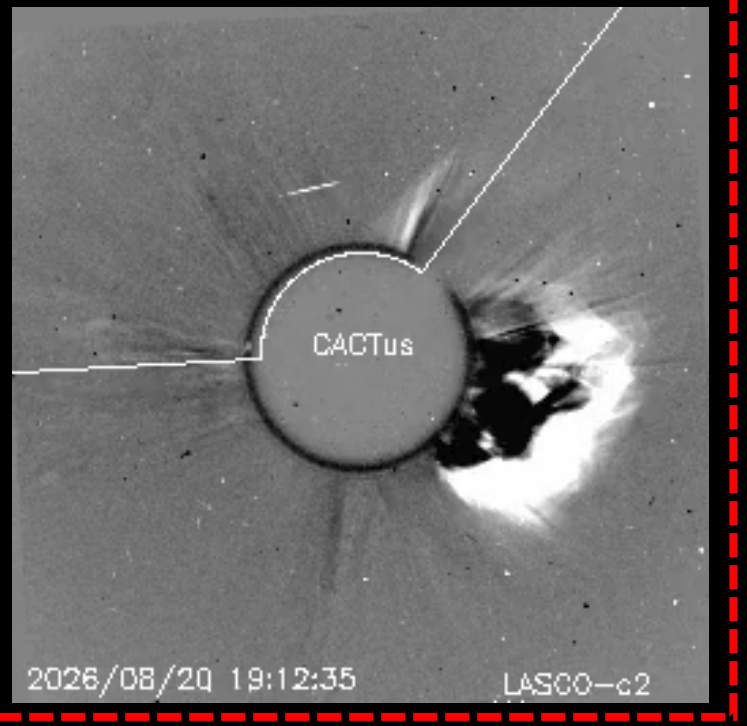
A wide, mainly eastward CME associated with the **M8.1 flare from SIDC Sunspot Group 929**, NOAA AR 4513, near the east limb on 20 August. Type II radio emission was detected in association with the event. The CME was not expected to produce an Earth impact.

A CACTus halo correction was issued, as the CME was wide but not a halo/ partial halo event.



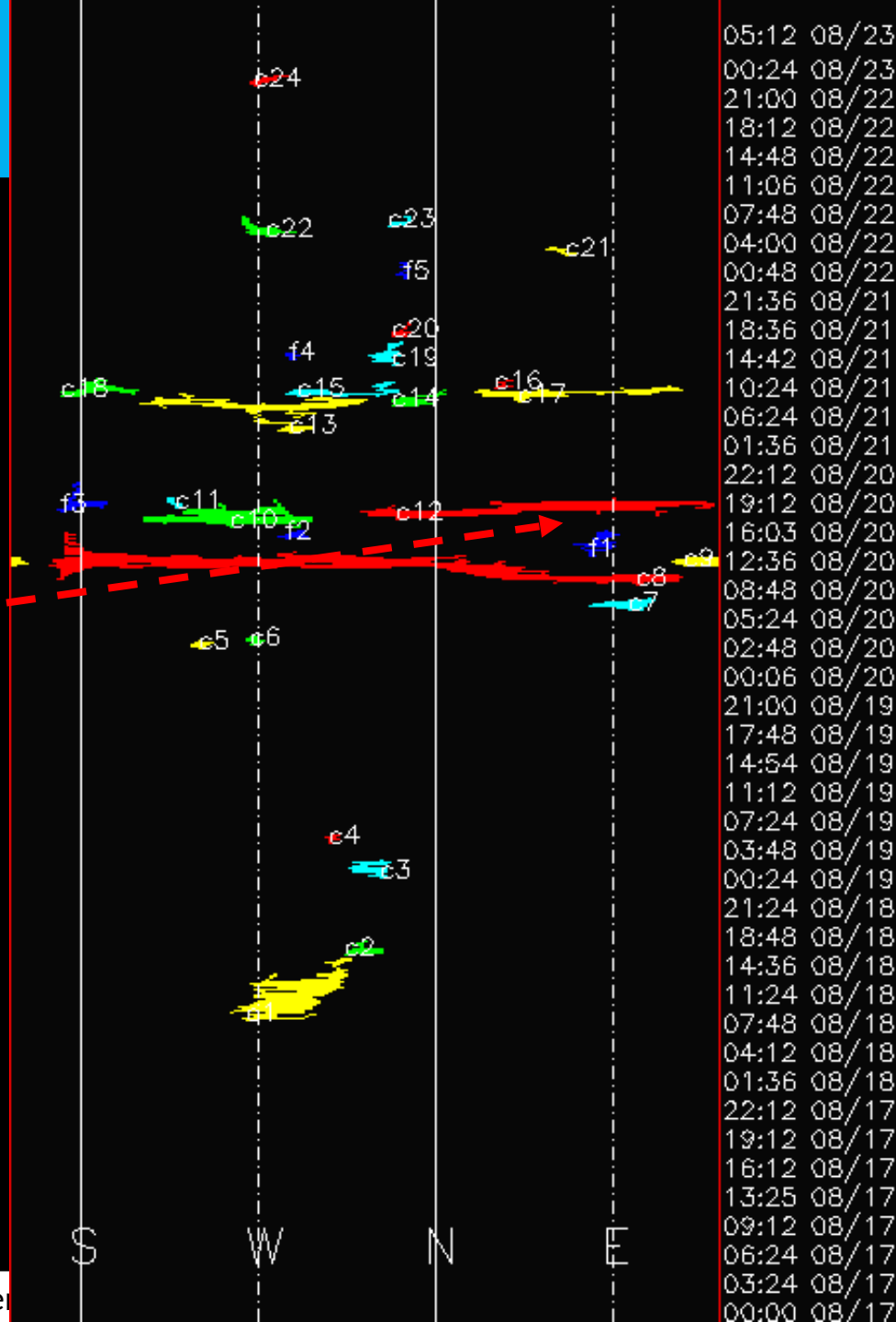
Coronal Mass Ejections

SIDC CME 712



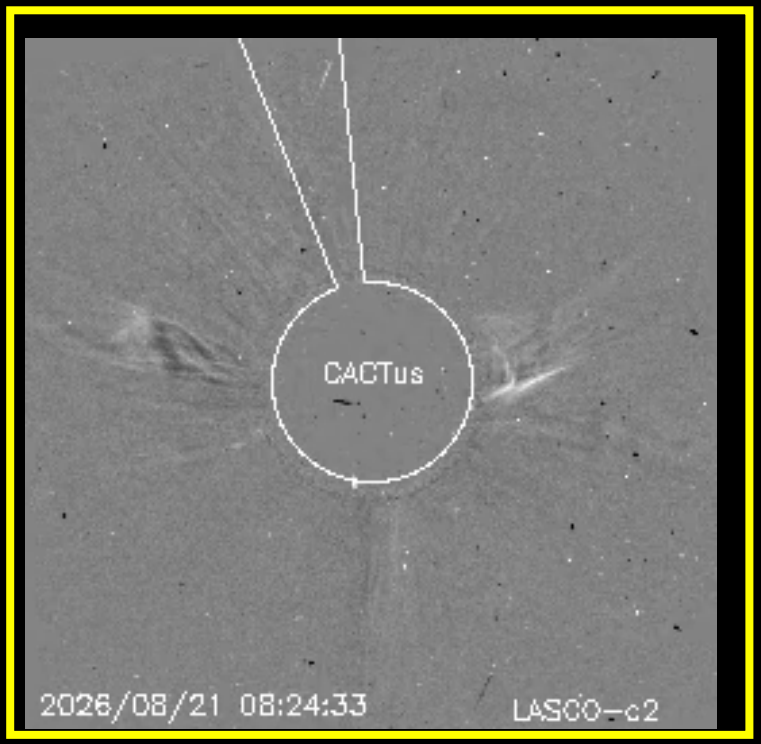
A wide and fast, mainly westward CME **associated with a backside filament eruption** on 20 August. Type II radio emission was detected in association with the event. The CME was not expected to produce an Earth impact.

A CACTus halo correction was issued because CACTus merged separate CME structures into one detection.

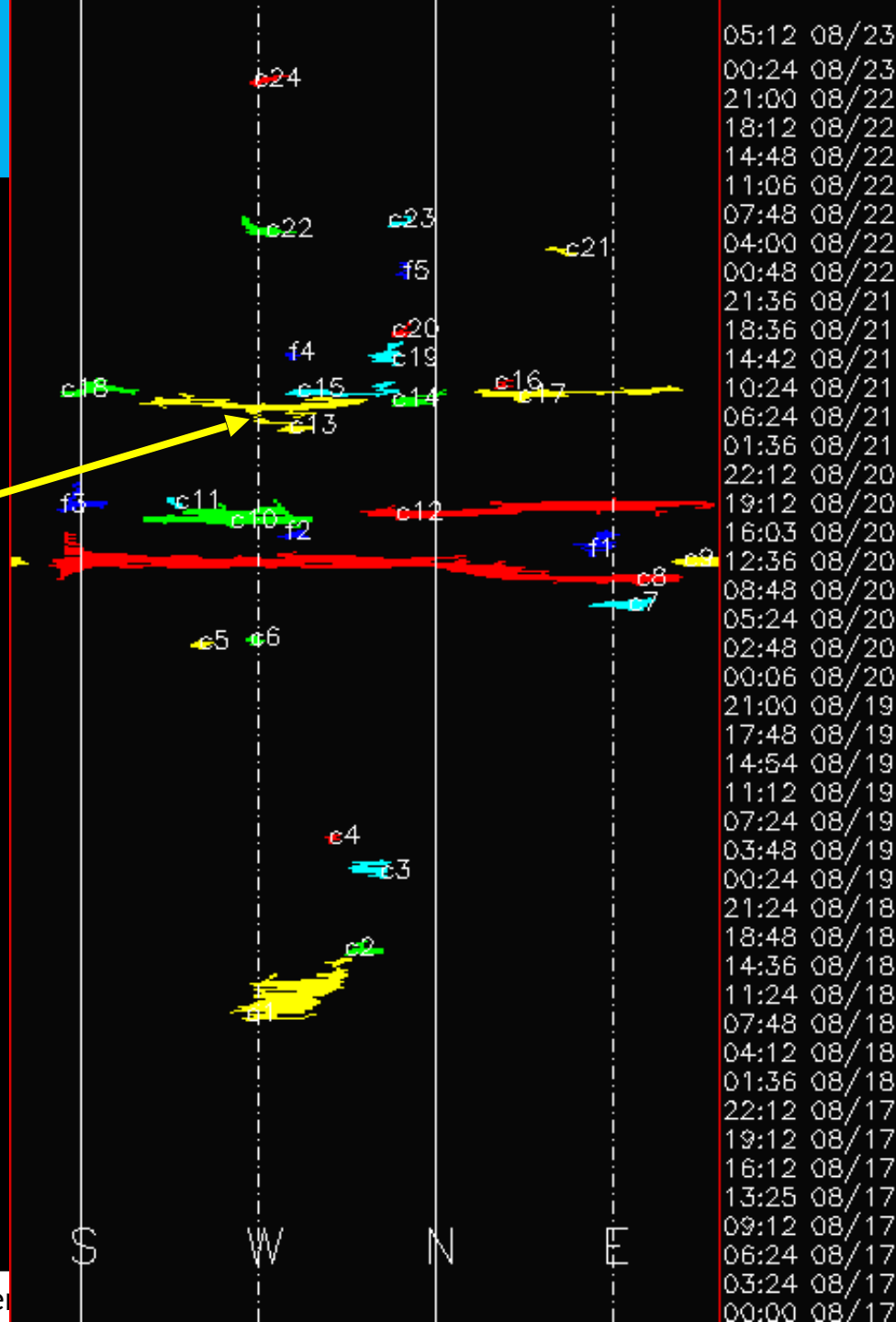


Coronal Mass Ejections

SIDC CME 713



A fast partial halo CME **associated with a long-duration M1.6 flare from SIDC Sunspot Group 940**, NOAA AR 4507, near the west limb on 21 August. The bulk of the CME was expected to miss Earth, but a possible glancing blow arrival around 24 August could not be excluded.



Solar Wind and

Geomagnetic Activity



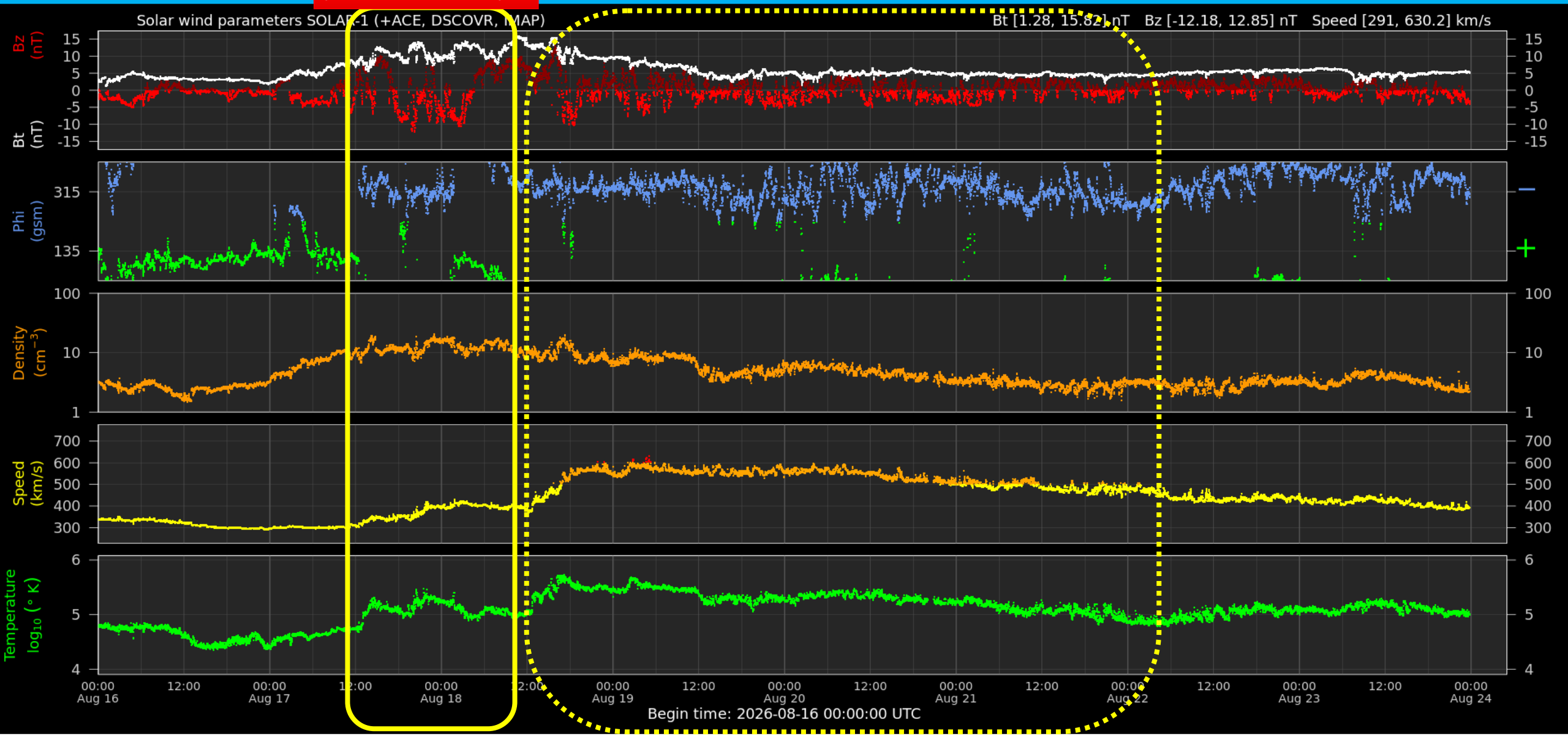
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Solar wind parameters

(SIDC CME 707)

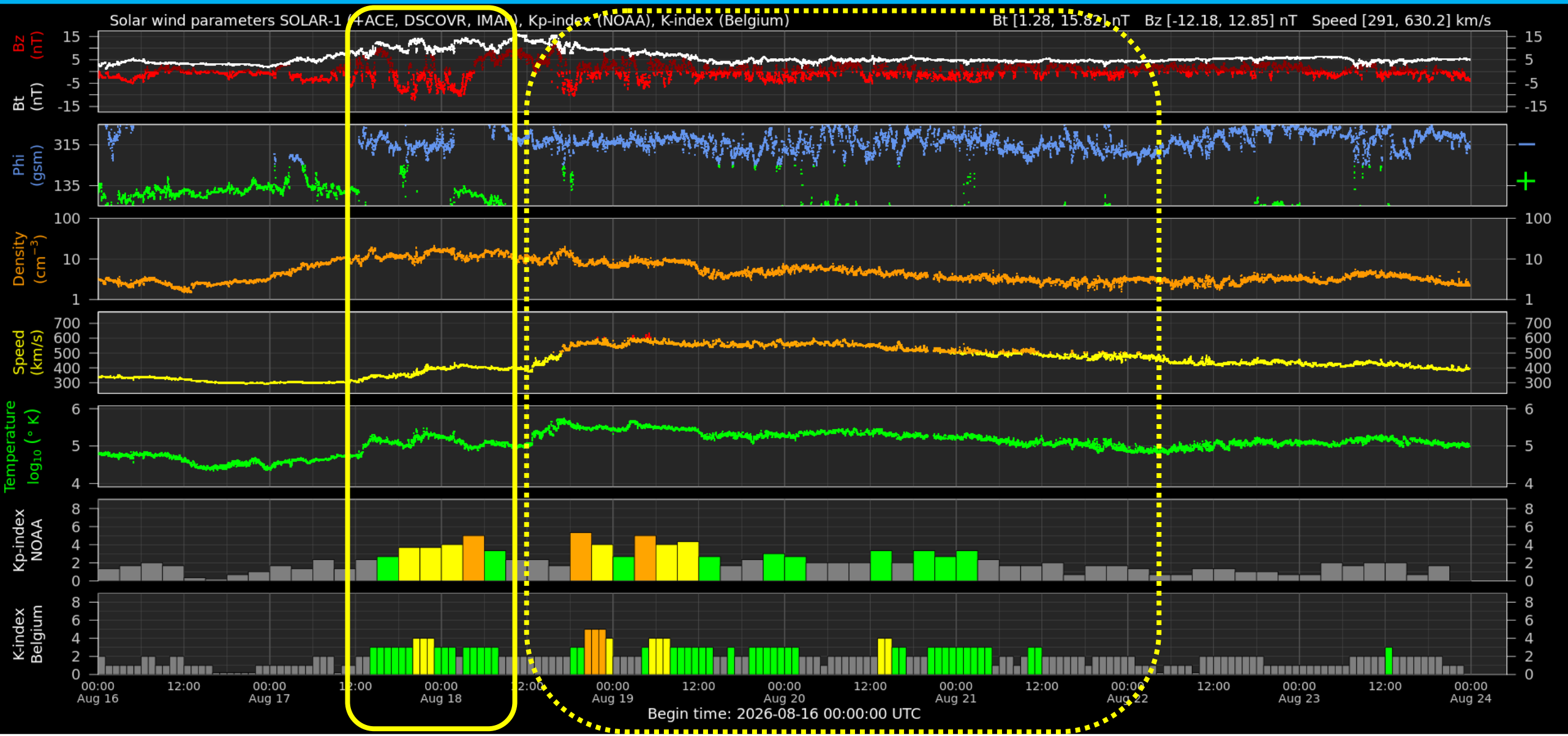
HSS (SIDC CH 149 -. SIDC CH 142 -)



Solar wind parameters & K-indices

(SIDC CME 707)

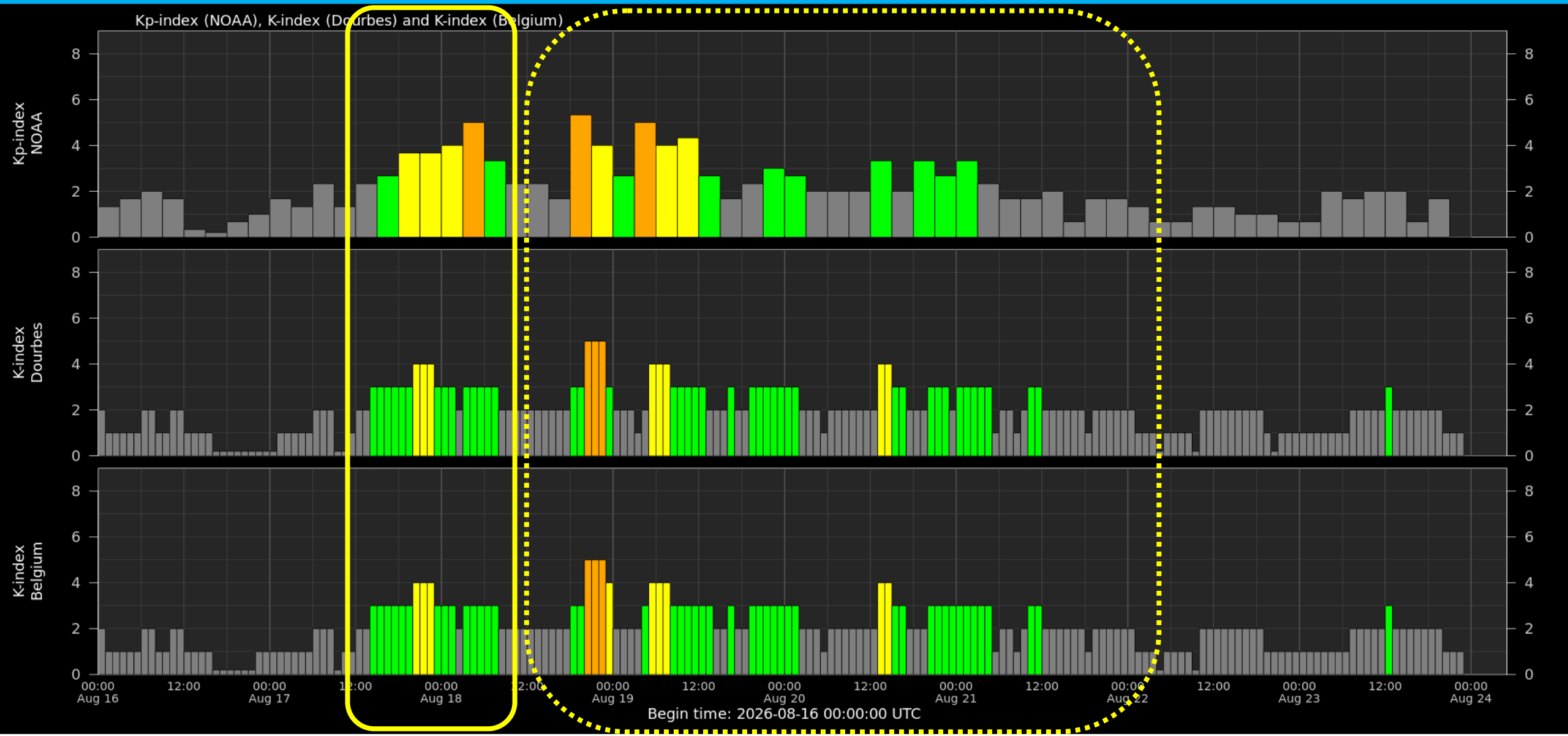
HSS (SIDC CH 149 -. SIDC CH 142 -)



Geomagnetic activity (K-indexes)

(SIDC CME 707)

HSS (SIDC CH 149 -. SIDC CH 142 -)



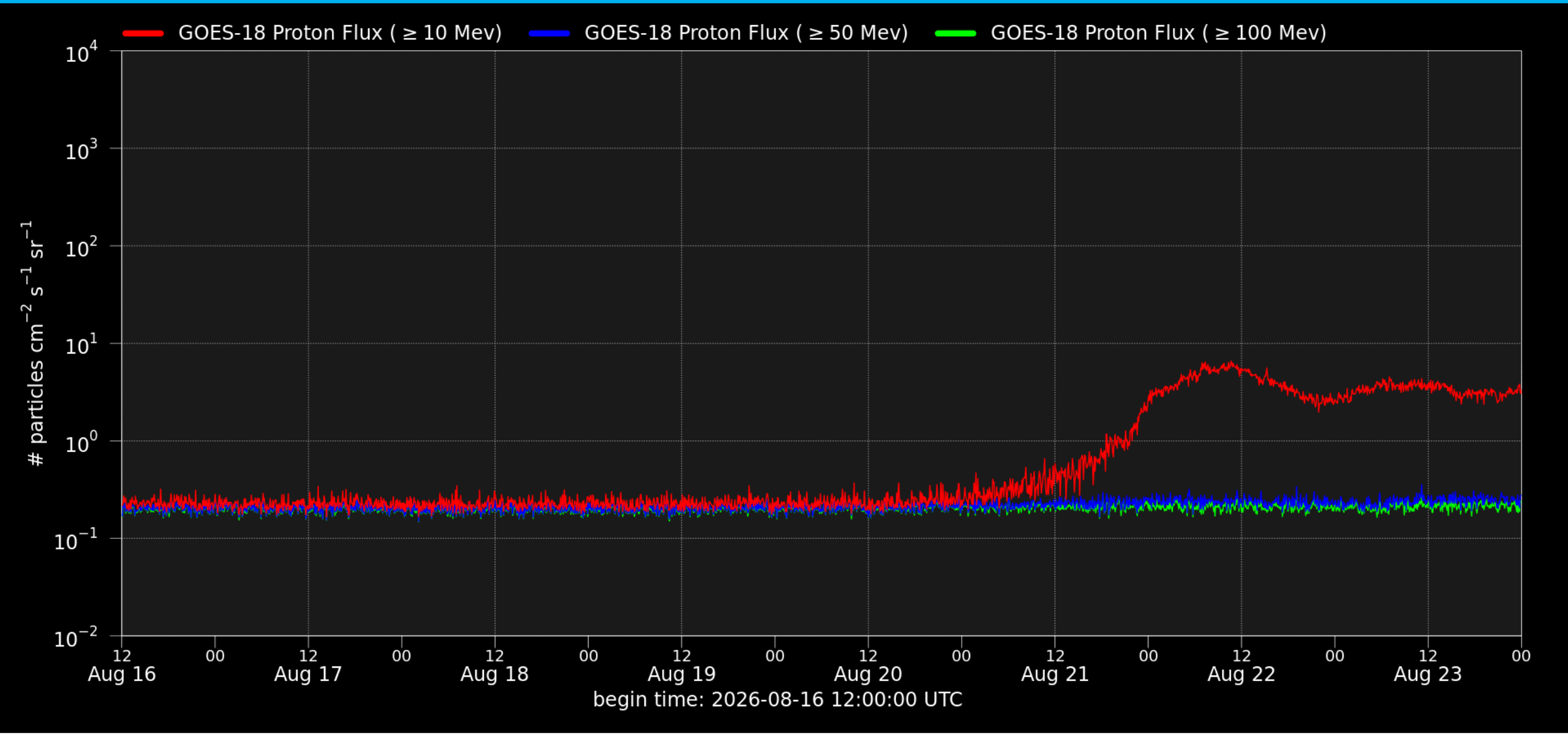
Energetic Particles



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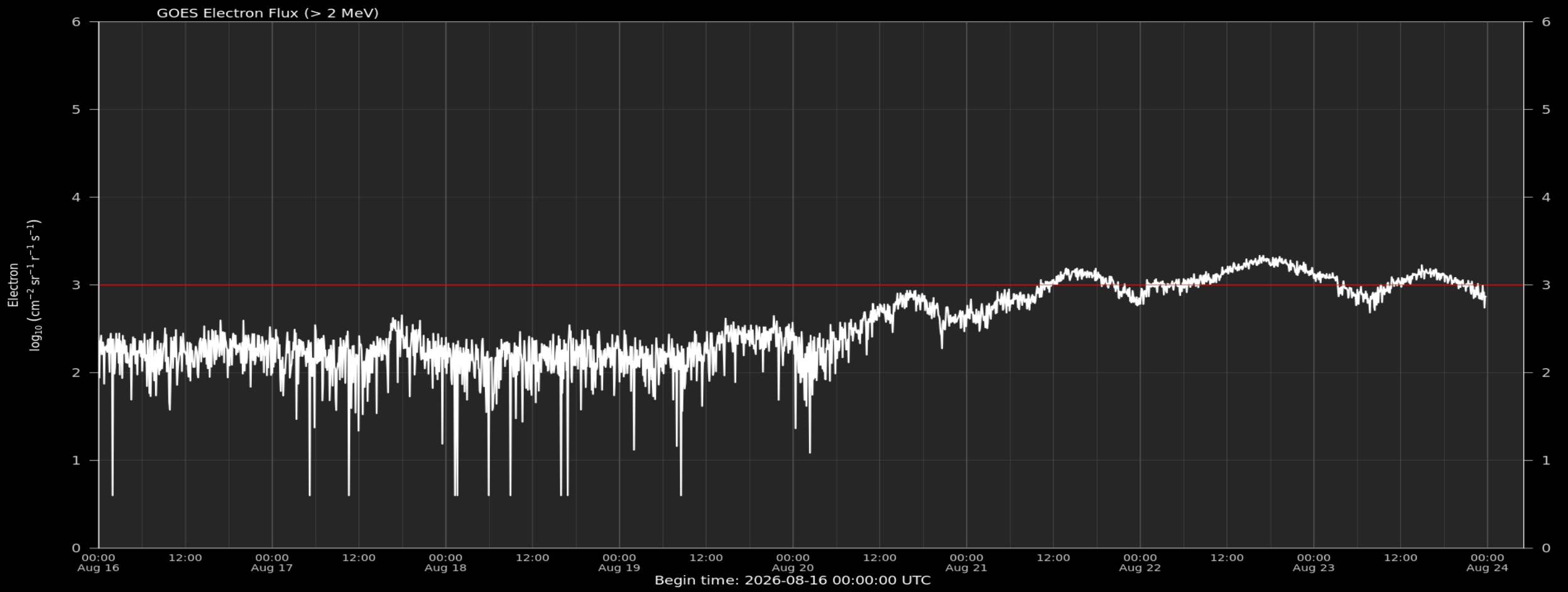
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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

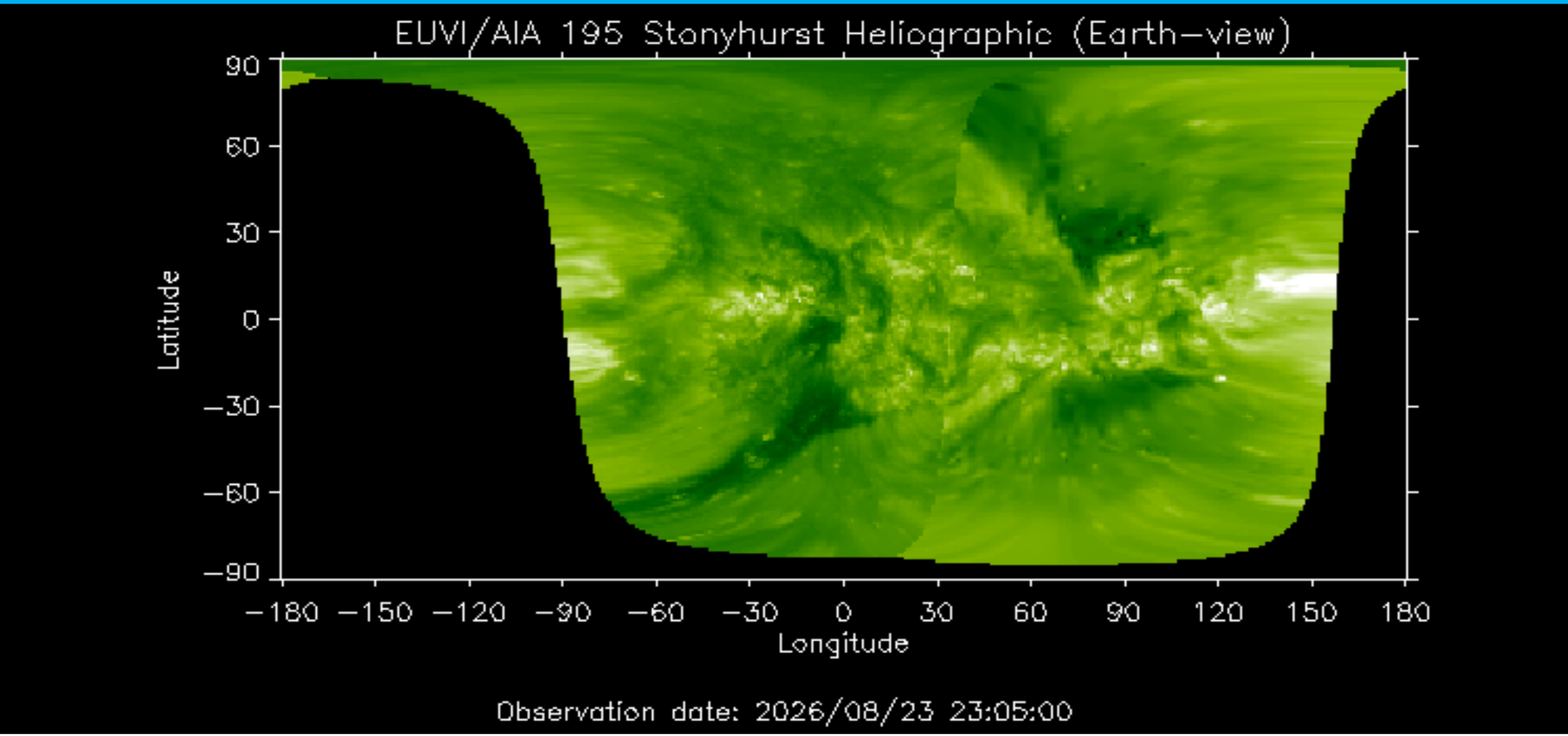


Outlook

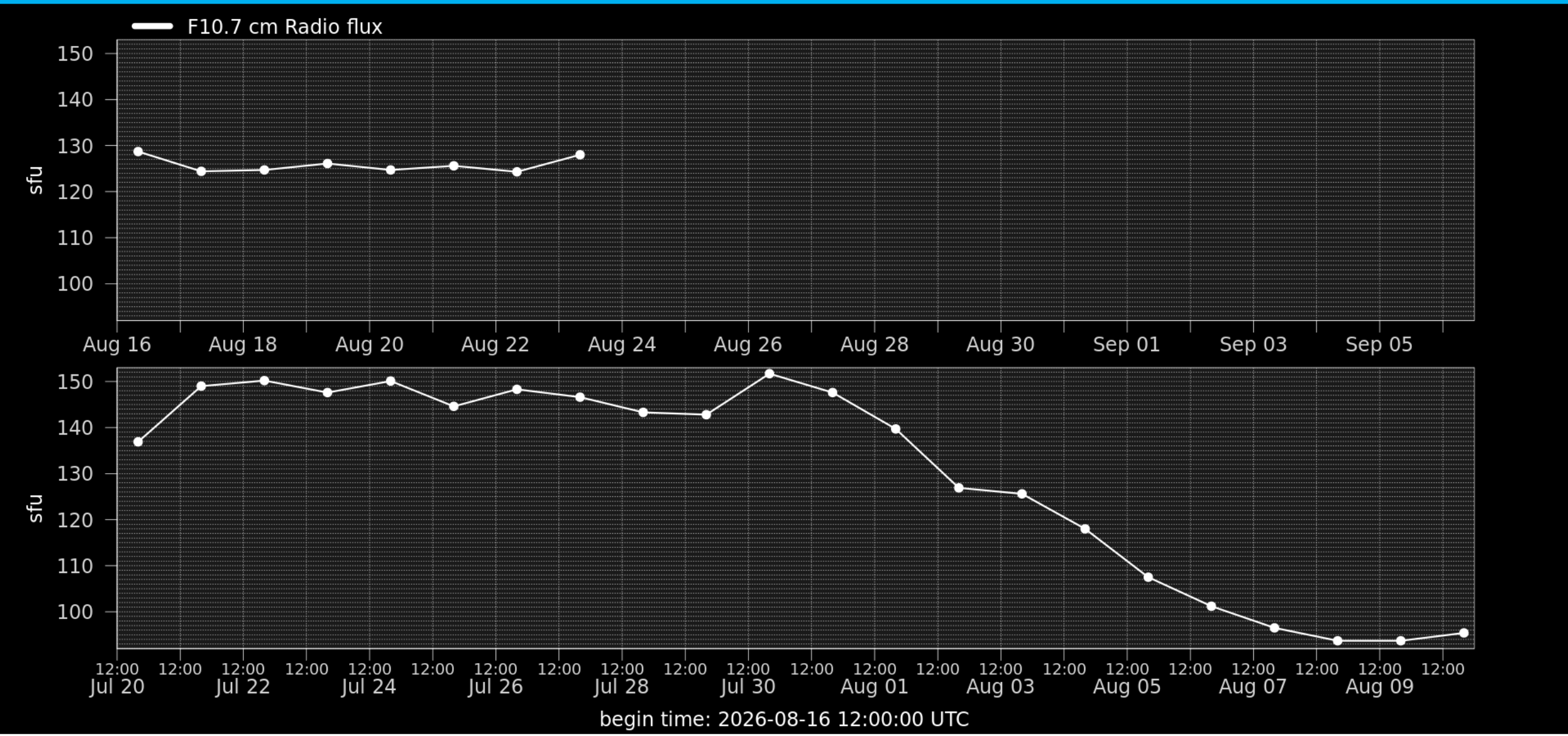
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Outlook: Solar activity



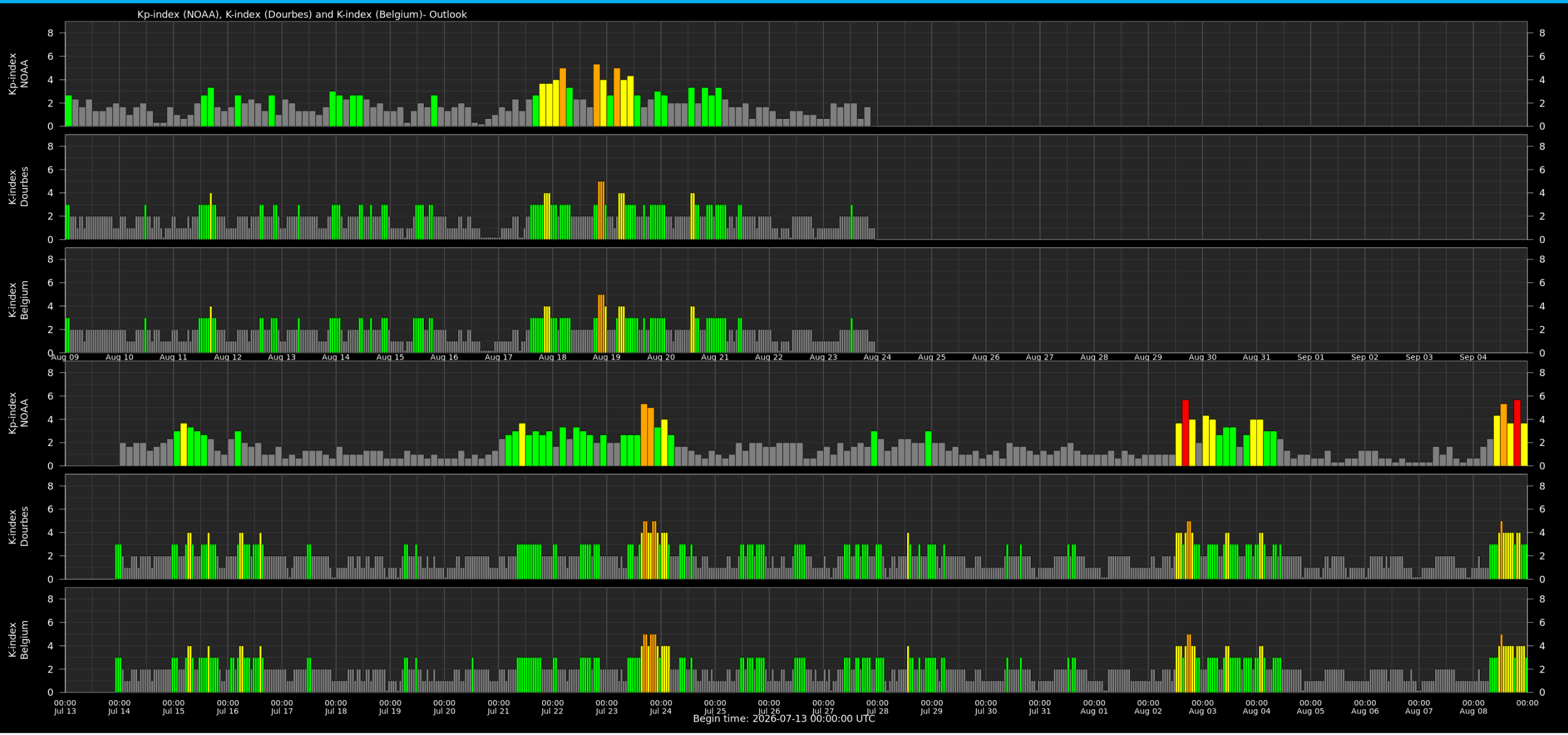
Outlook: Solar F10.7cm radio flux



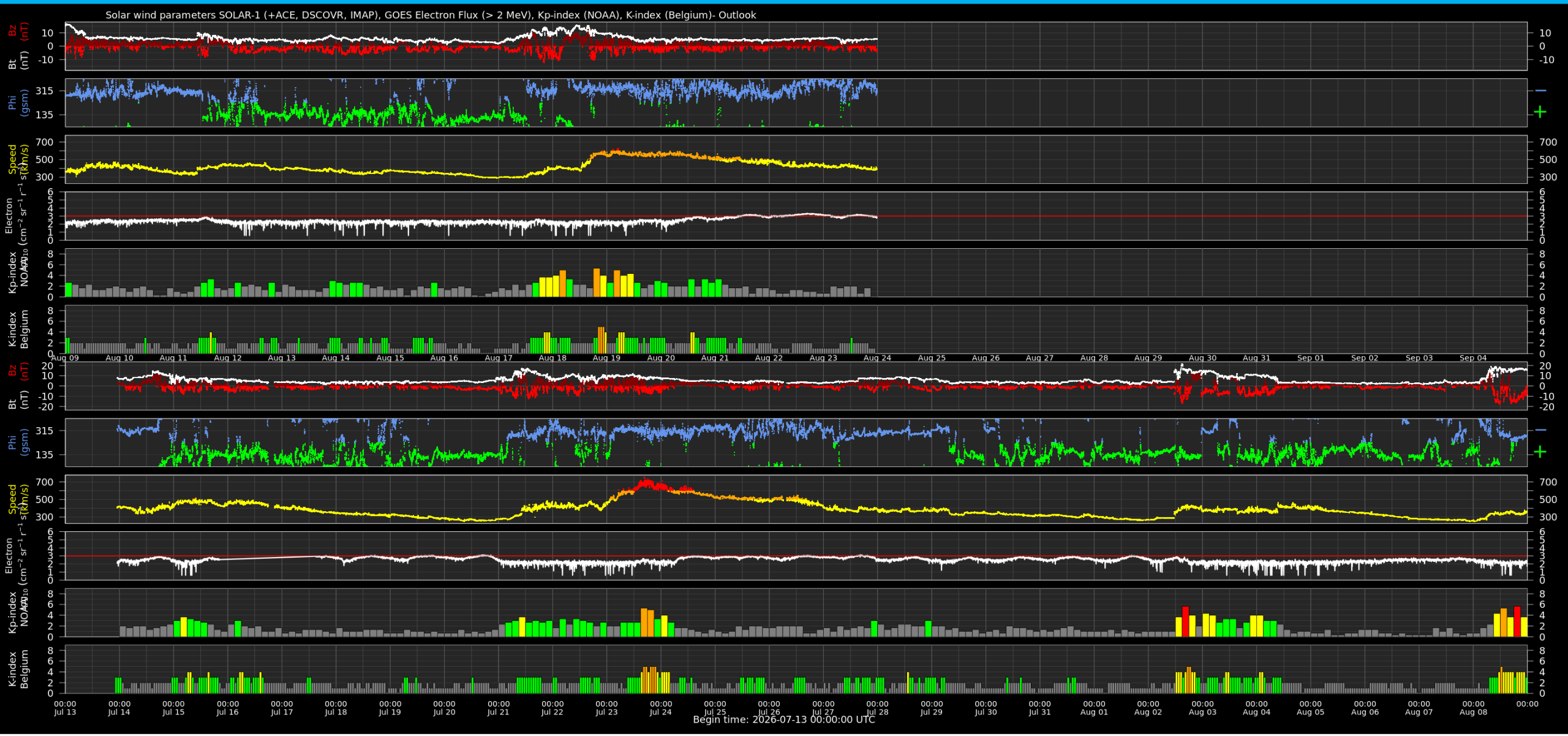
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



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Pecasus related events

Primary Backup Centre

No advisories were issued

SIDC Space Weather Briefing

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