SIDC Space Weather Briefing

01 December 2025-07 December 2025

Yana Maneva

& the SIDC forecaster team

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2025-12-01 00:00 to 2025-12-07 23:59

Active regions	14 ARs, SIDC 687/NOAA 4299, SIDC 709/NOAA 4294, SIDC 712/NOAA 4296
Flares	# C-class flare: 45 # M-class flare: 5 # X-class flare: 1
Coronal Holes	2 CH-
CMEs	2 halo CMEs (Dec 01, Dec 06)

Proton flux	Mildly enhanced, below proton event levels (< 10 pfu)
Electron flux	Moderate

Solar wind and geomagnetic conditions

ICMEs	No clear arrival
Solar wind conditions	|B|: 0.81 - 22.76 nT //Bz: -15.35 nT to 19.94 nT //Speed: 353.8 - 771.1km/s
Geomagnetic conditions	max KBel: 6.0, max Kp(NOAA): 6.67, Major Storm conditions

All Quiet Alert: Off (not Quiet)

Solar Activity

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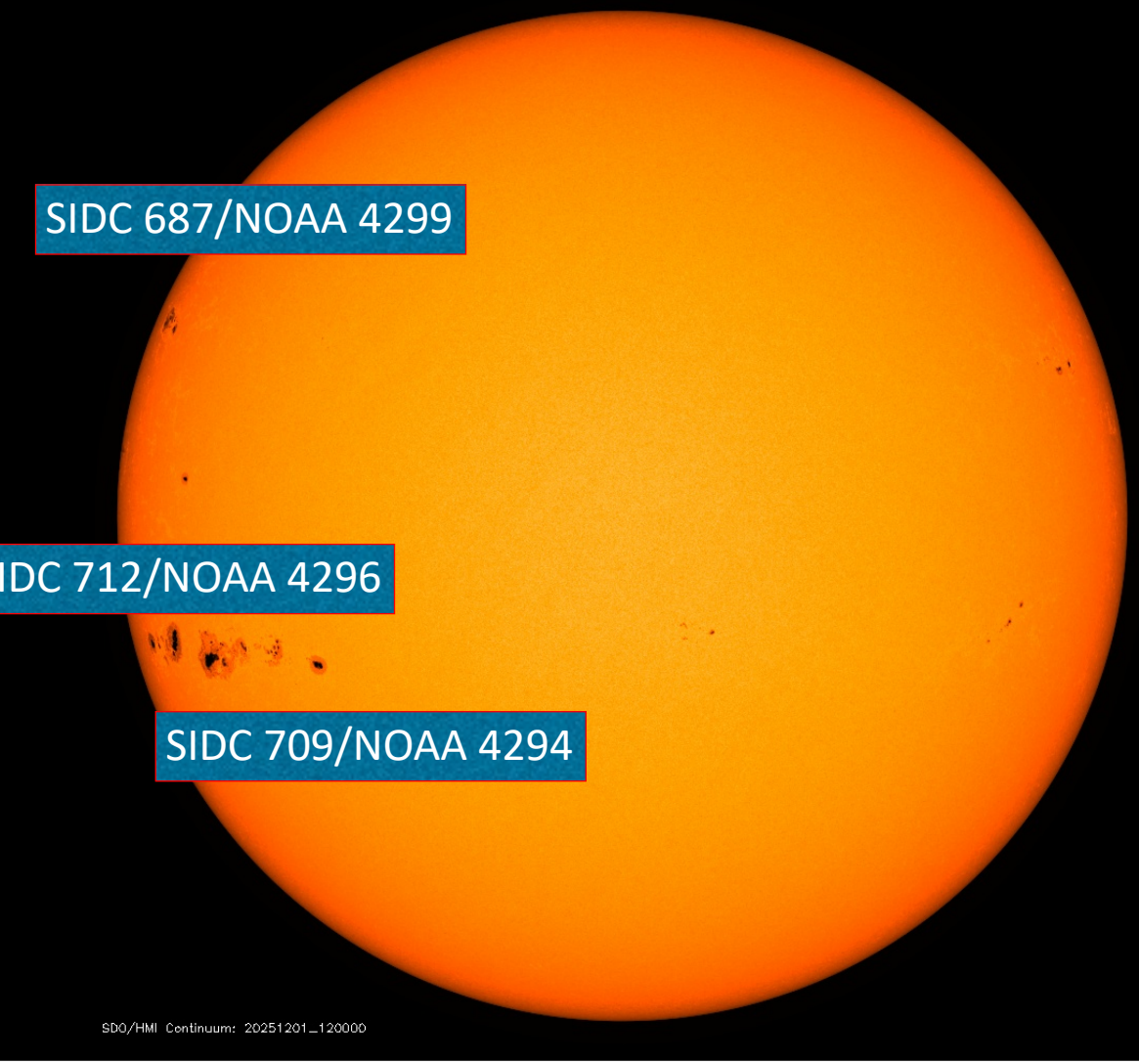
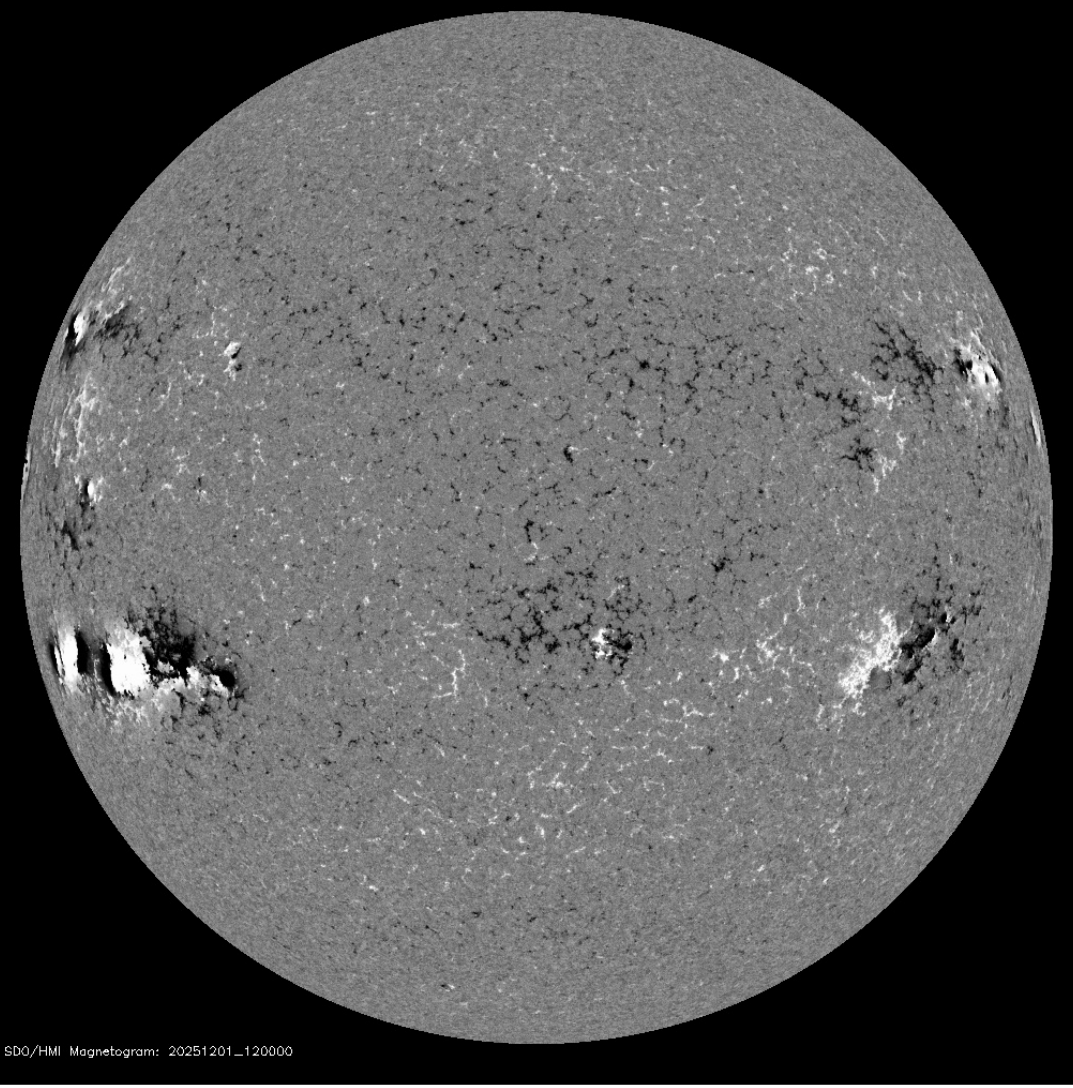
Solar active regions

SDO/HMI White Light 2025-12-01

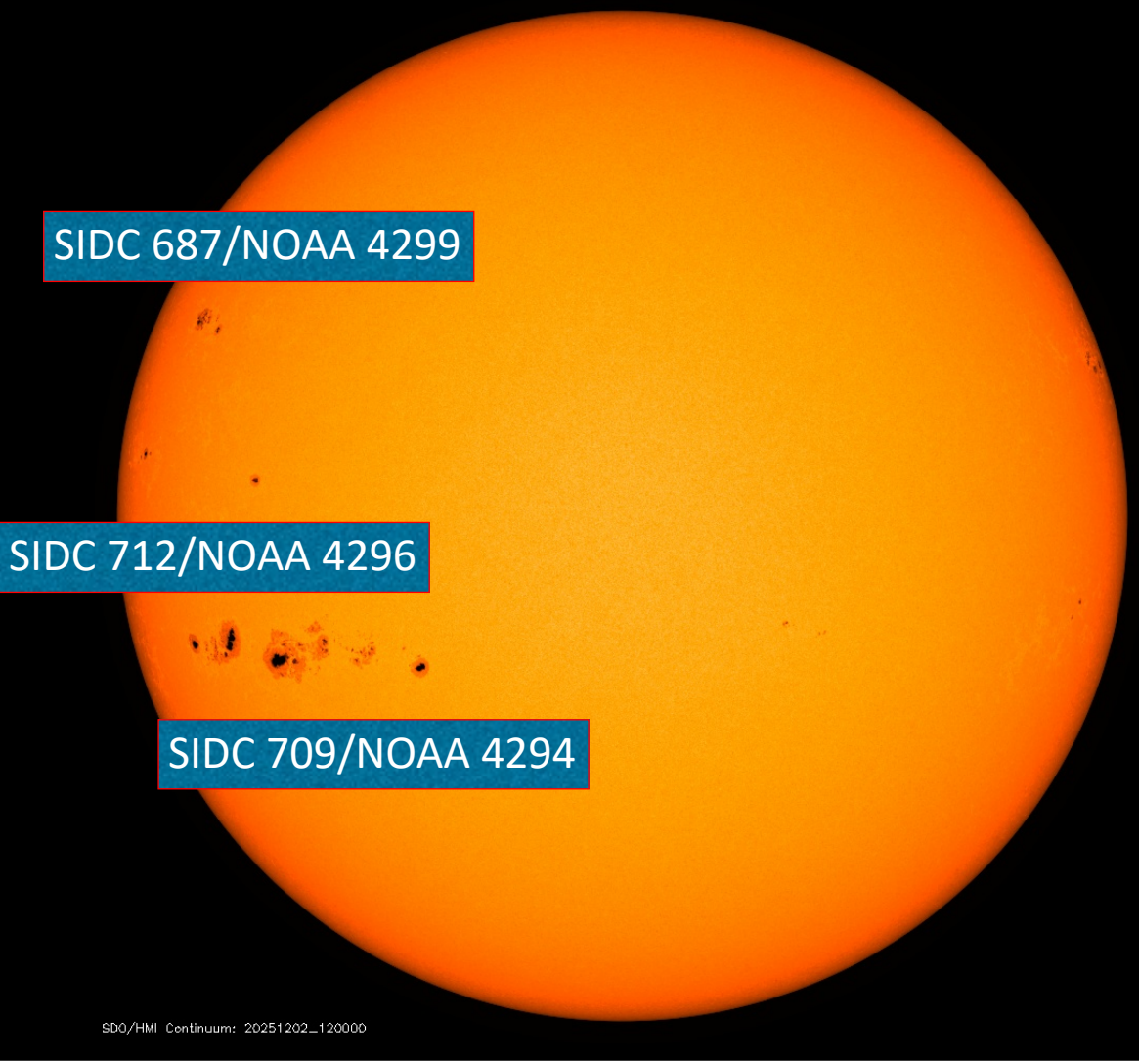


SDO/HMI Magnetogram 2025-12-01

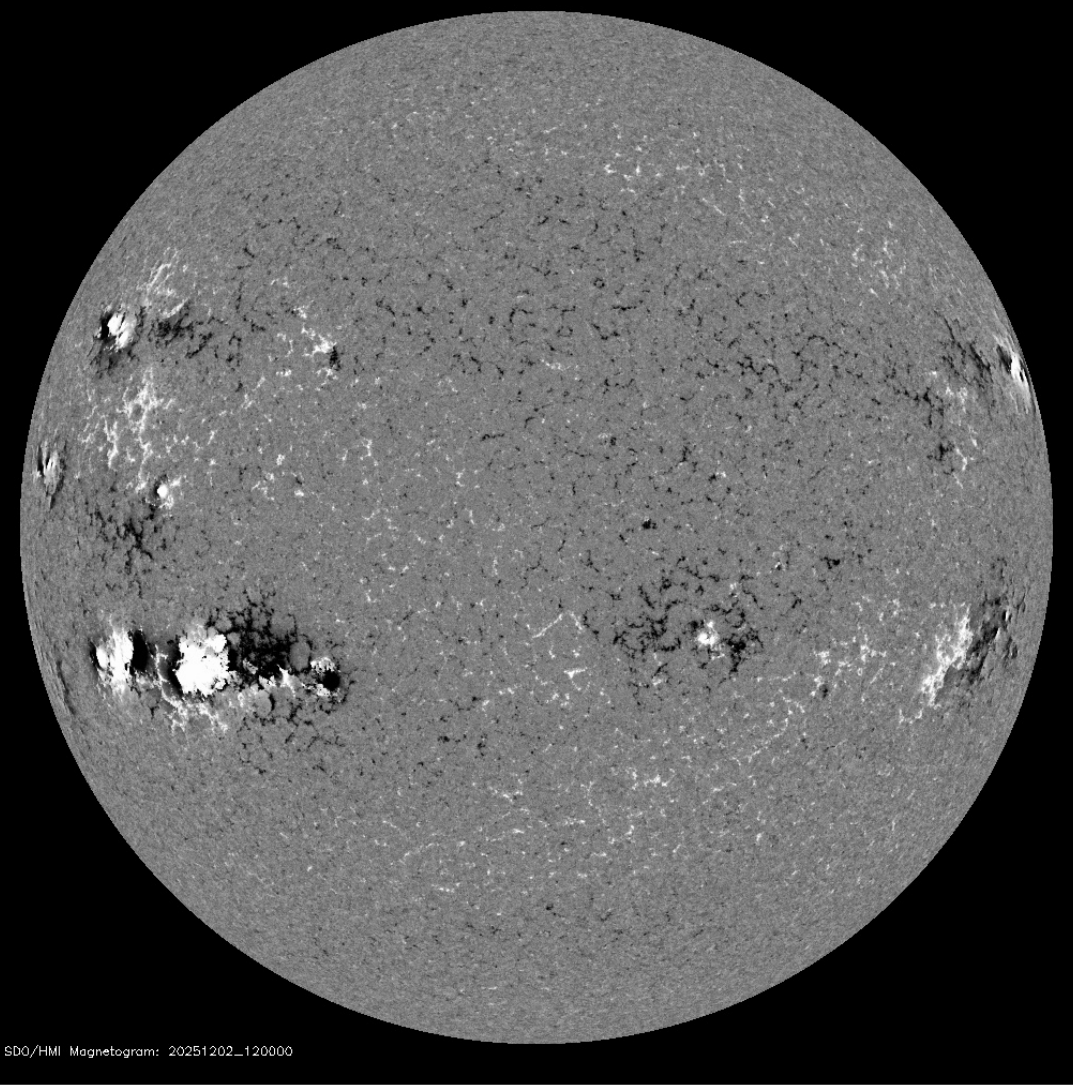


Solar active regions

SDO/HMI White Light 2025-12-02

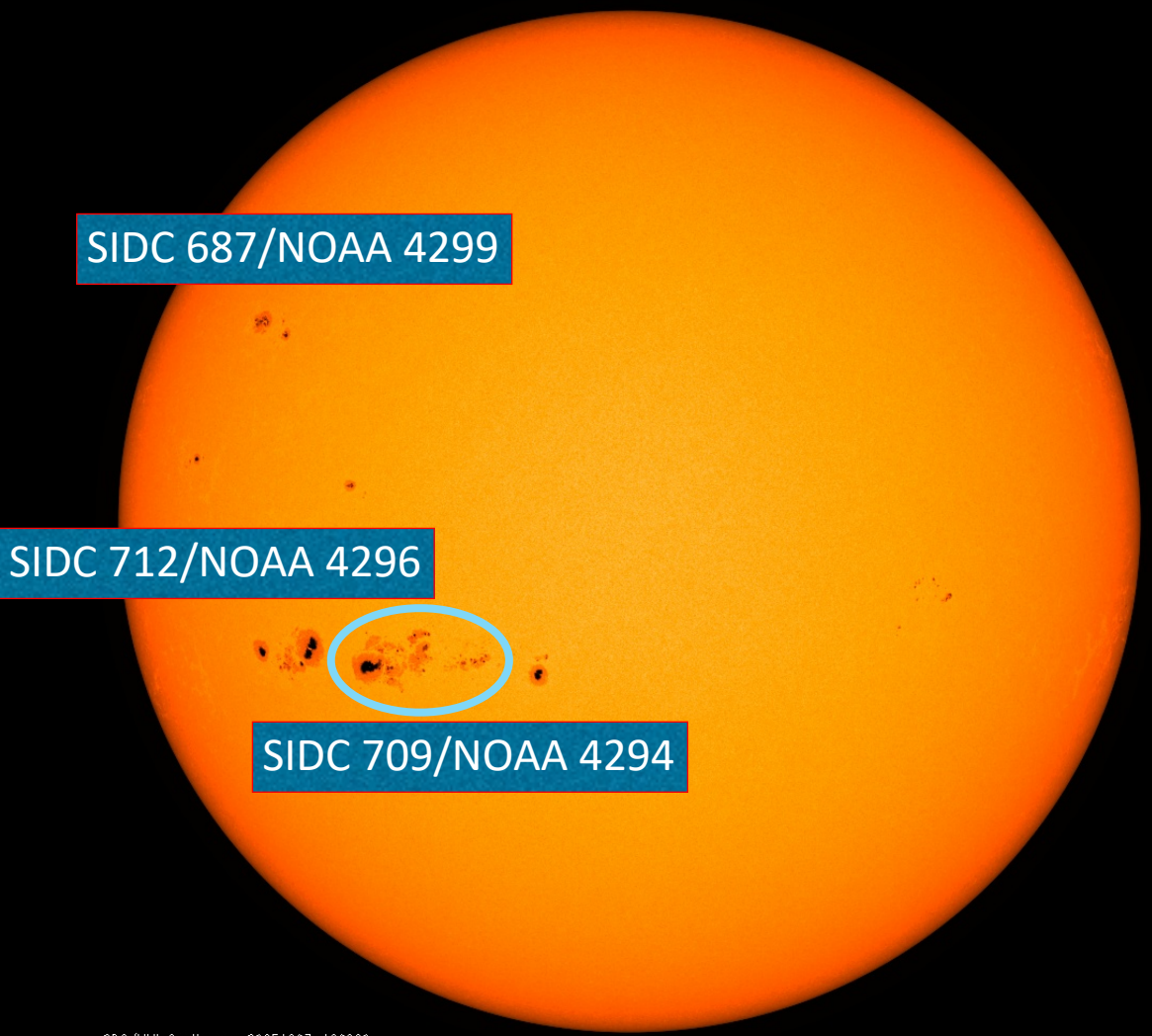


SDO/HMI Magnetogram 2025-12-02

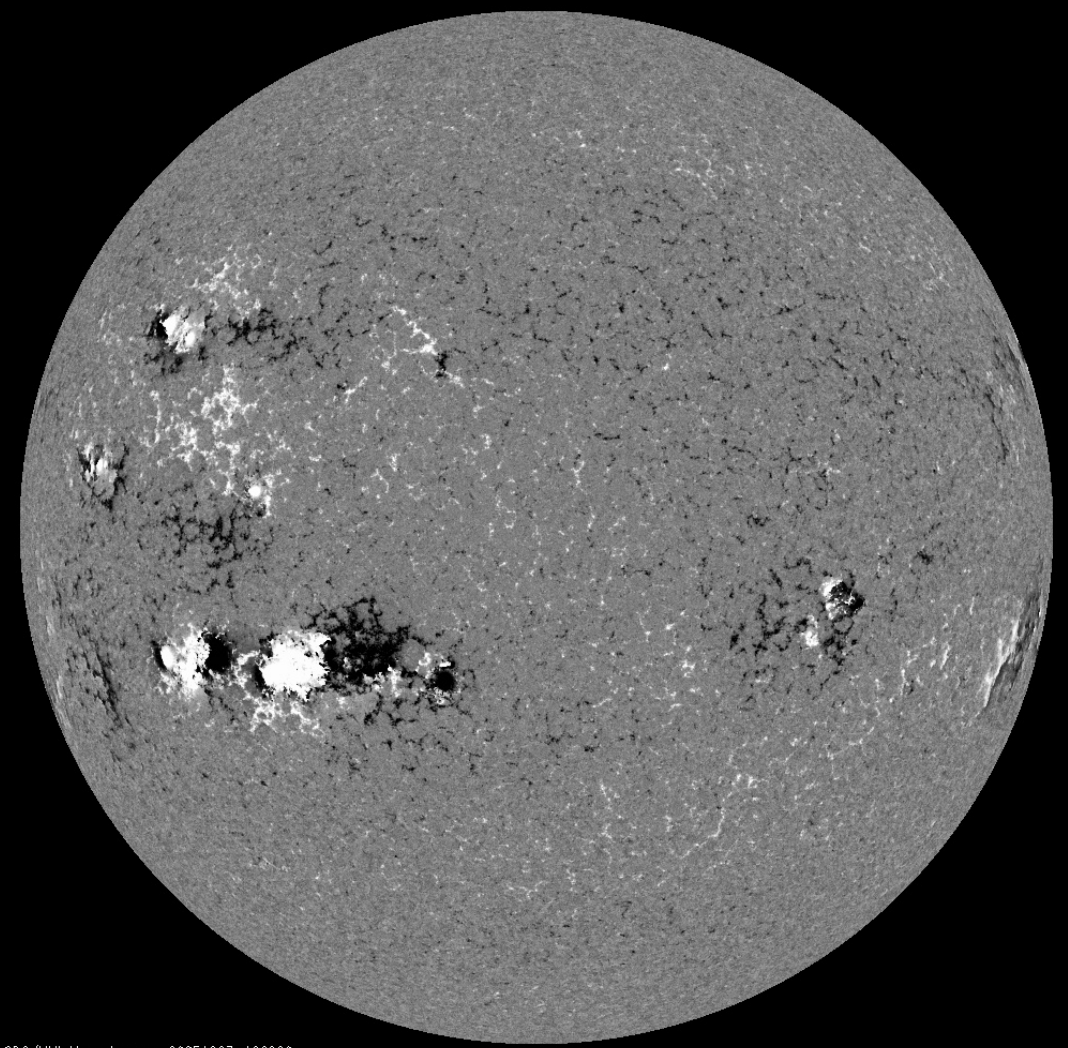


Solar active regions

SDO/HMI White Light 2025-12-03

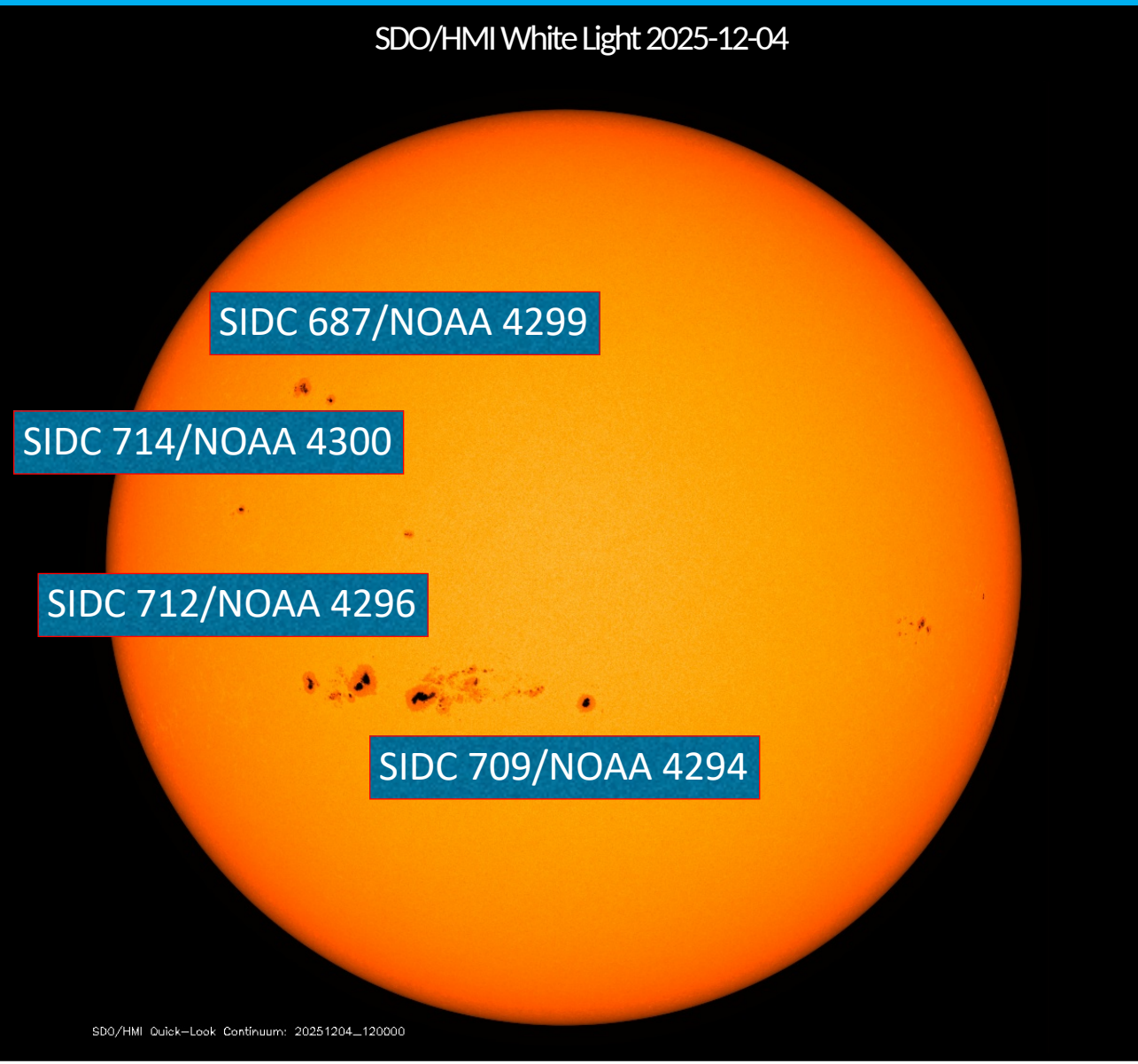


SDO/HMI Magnetogram 2025-12-03

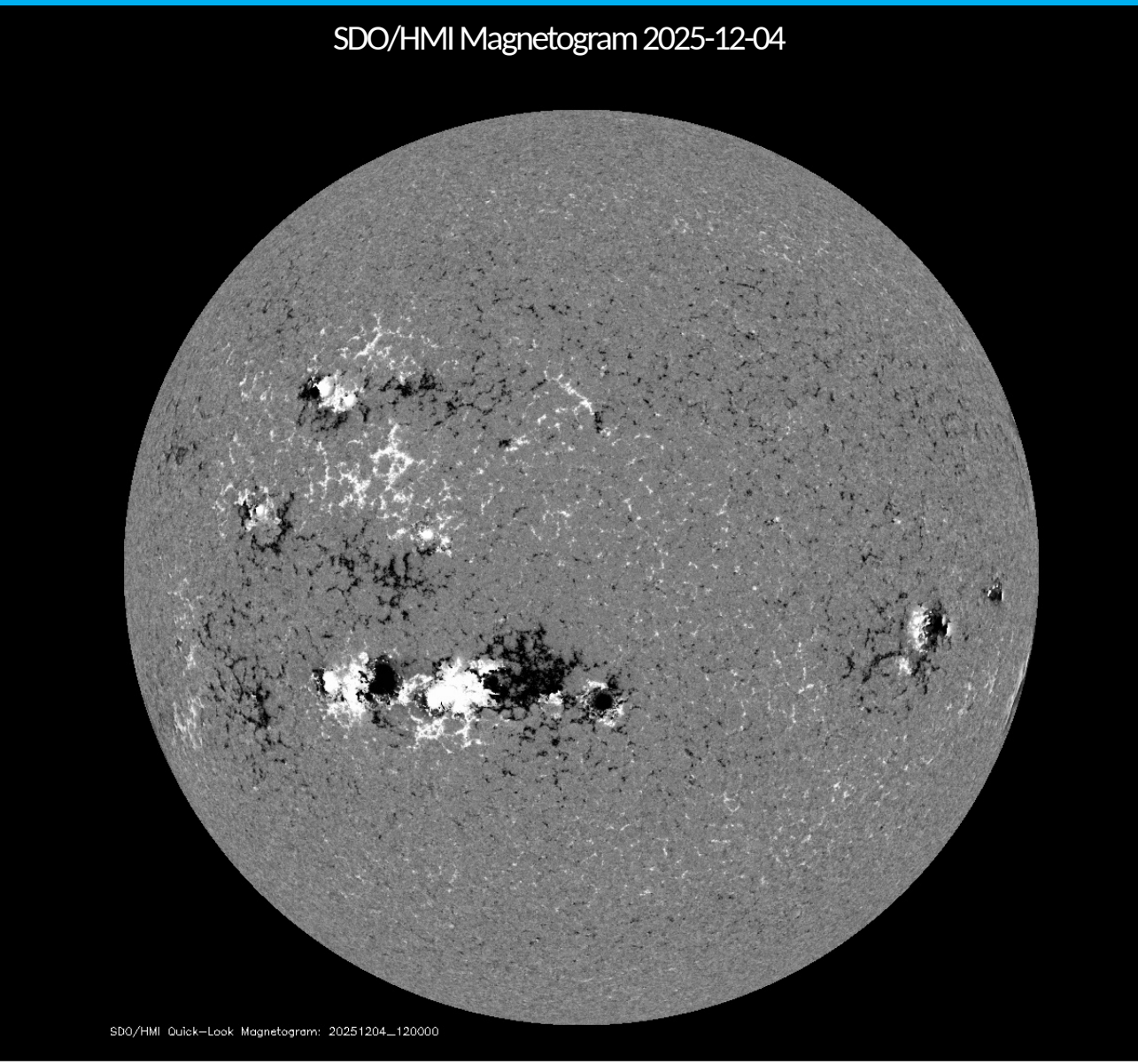


Solar active regions

SDO/HMI White Light 2025-12-04

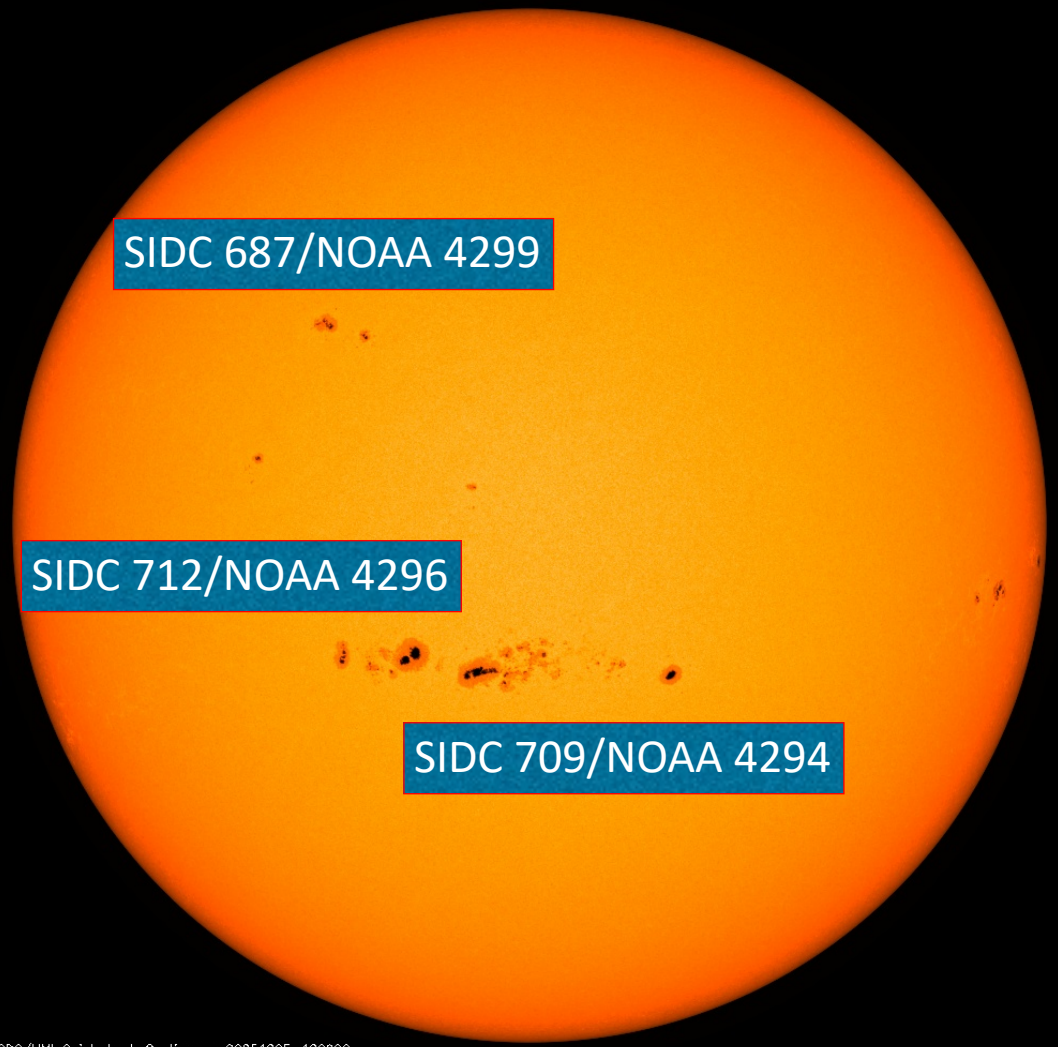


SDO/HMI Magnetogram 2025-12-04

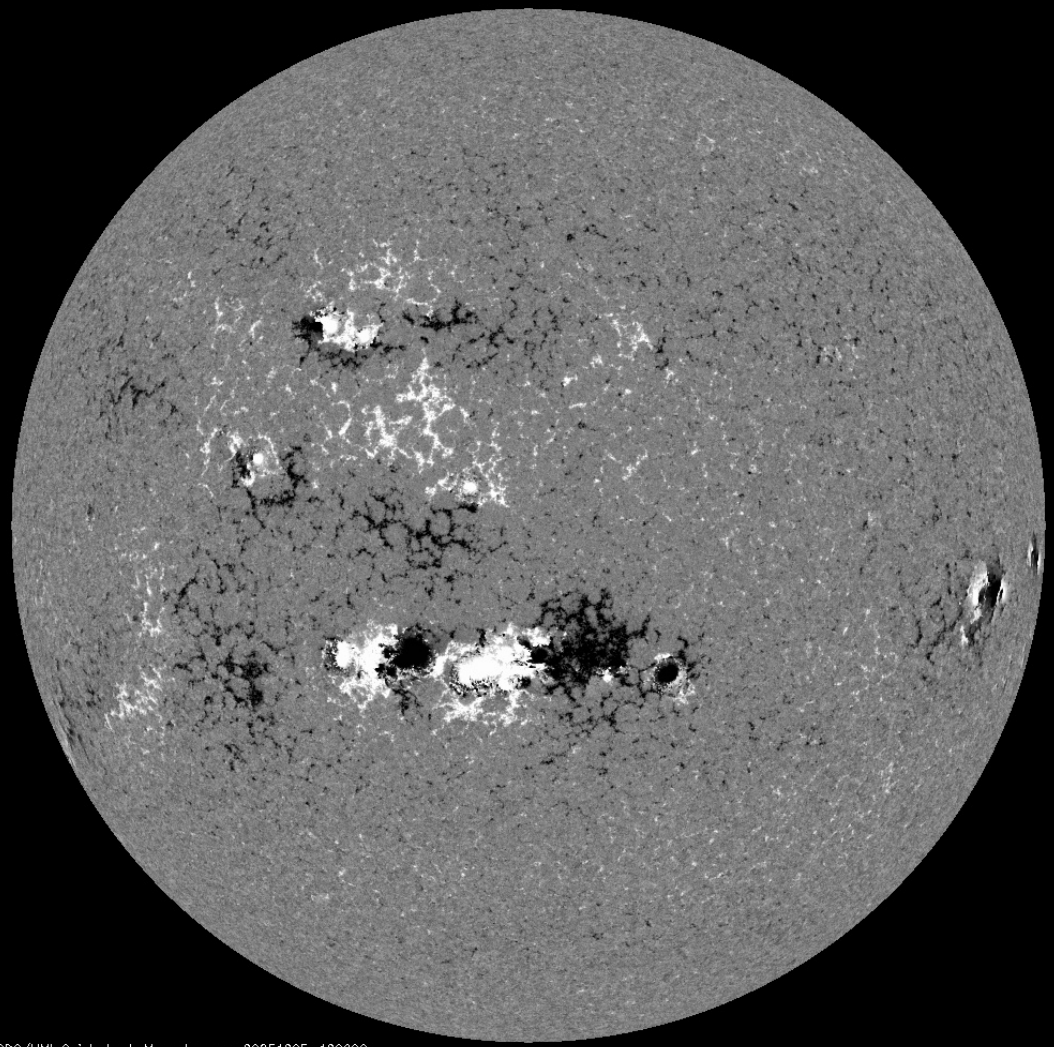


Solar active regions

SDO/HMI White Light 2025-12-05

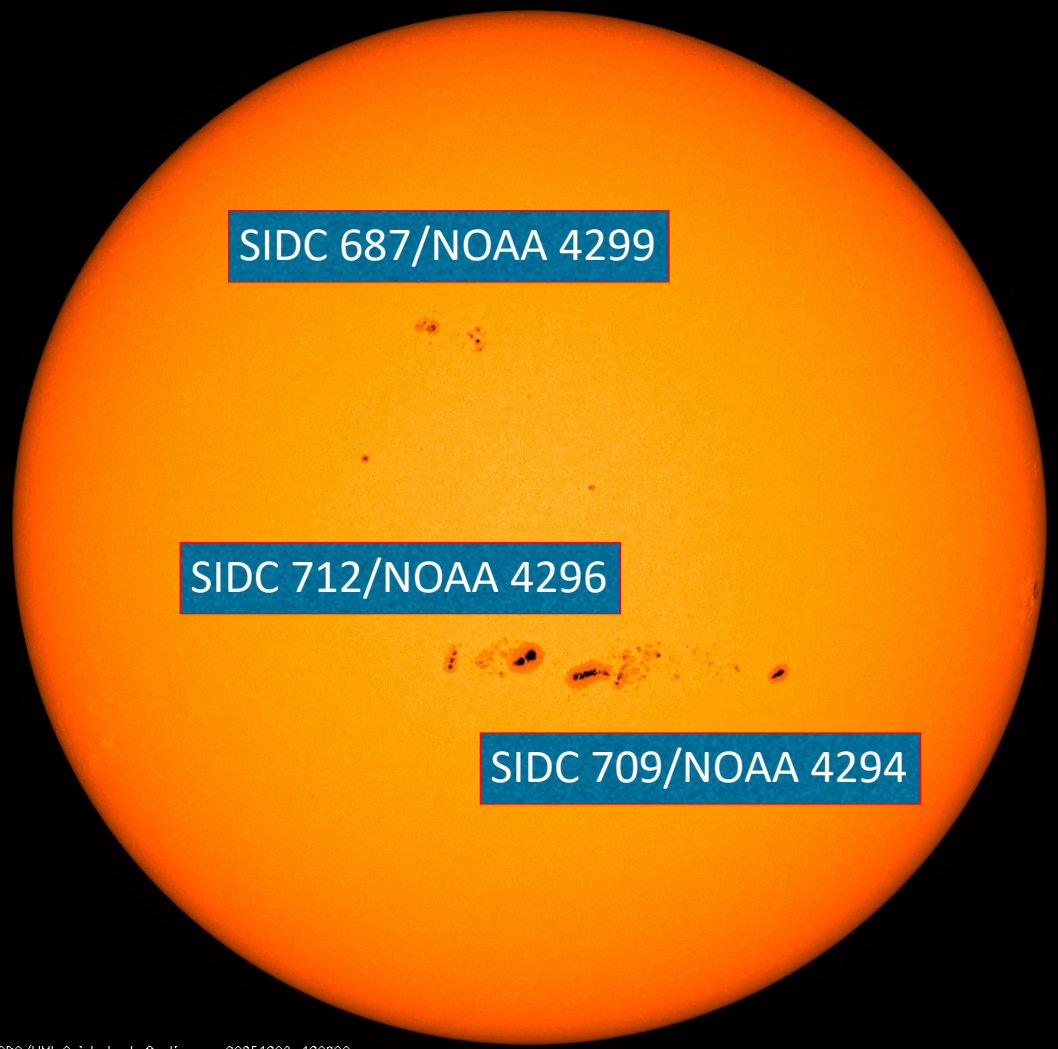


SDO/HMI Magnetogram 2025-12-05

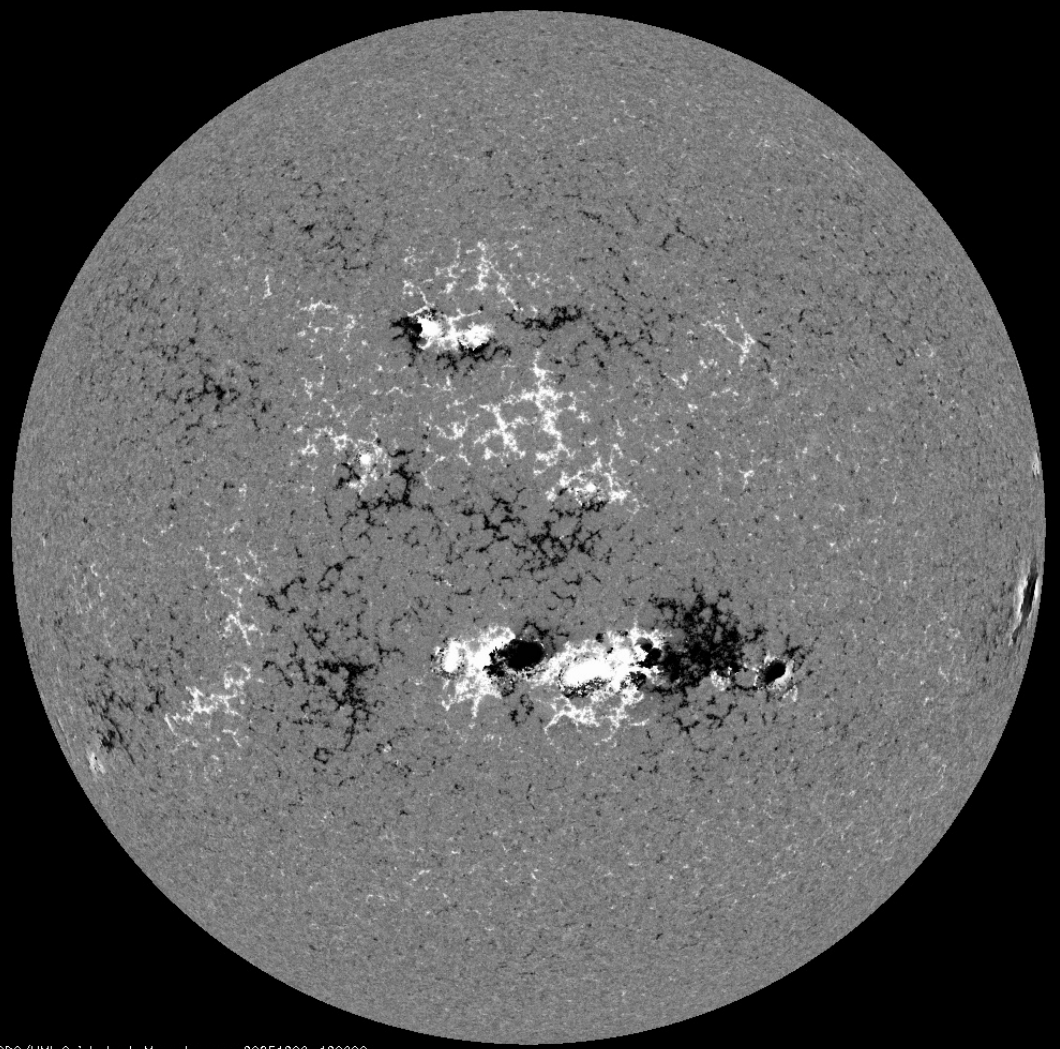


Solar active regions

SDO/HMI White Light 2025-12-06

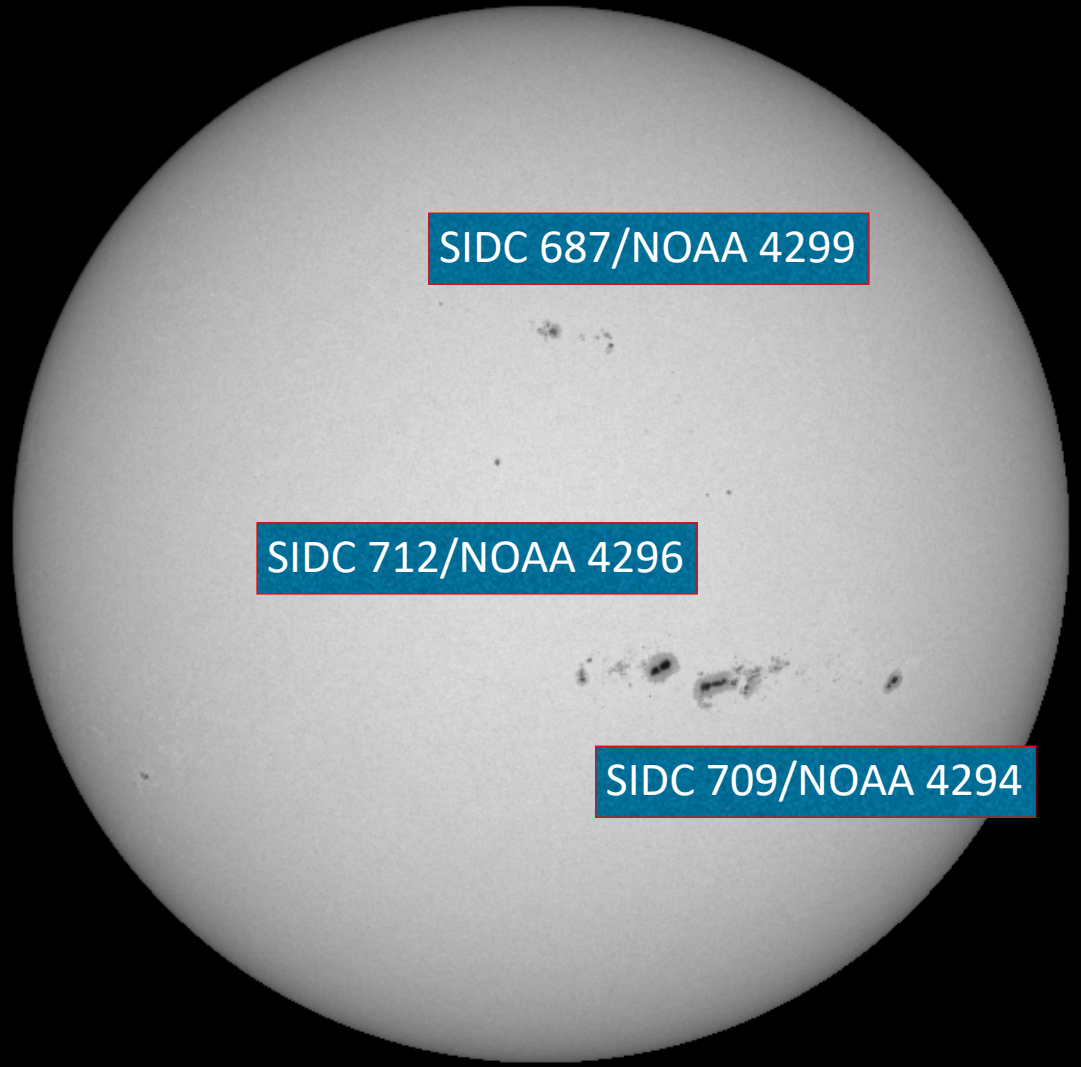


SDO/HMI Magnetogram 2025-12-06

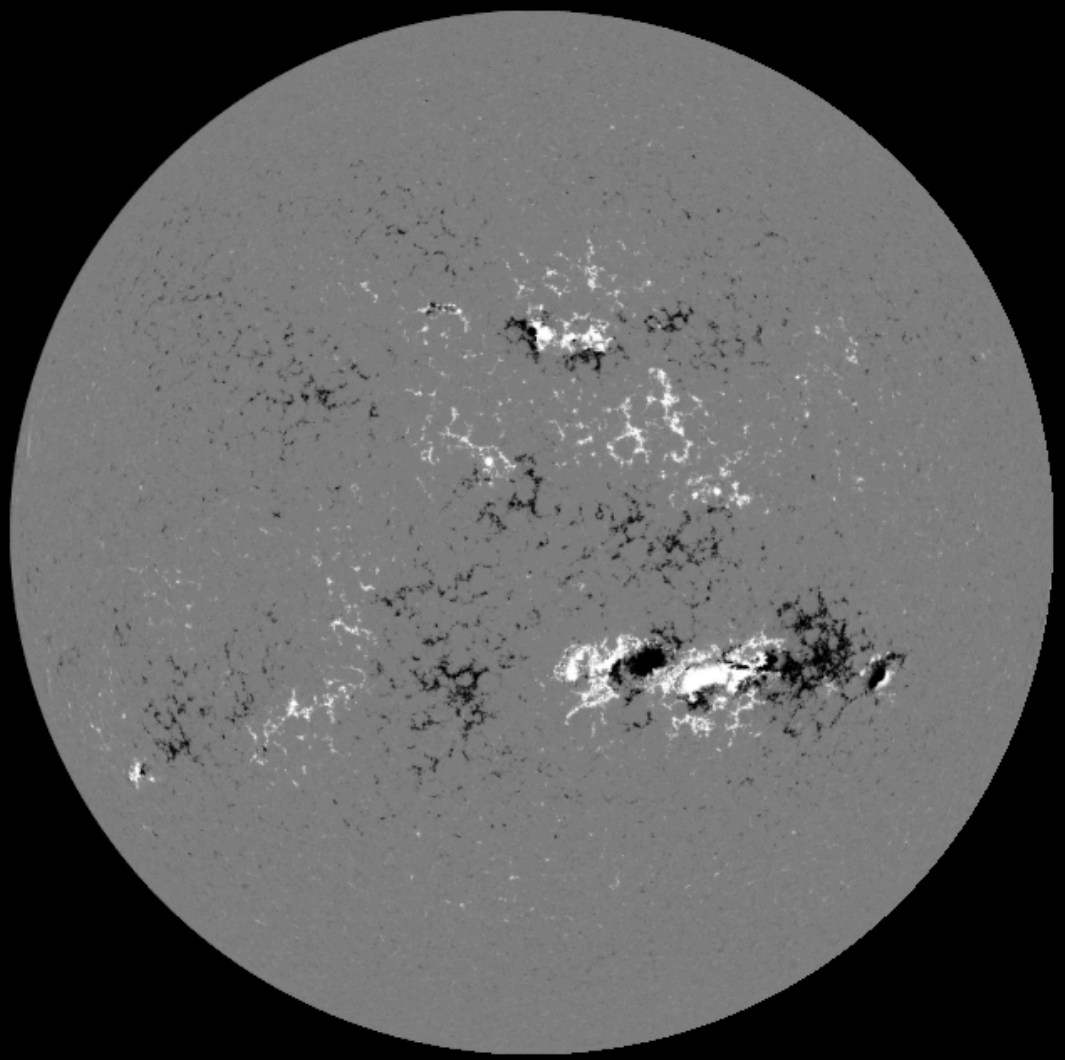


Solar active regions

SDO/HMI White Light 2025-12-07

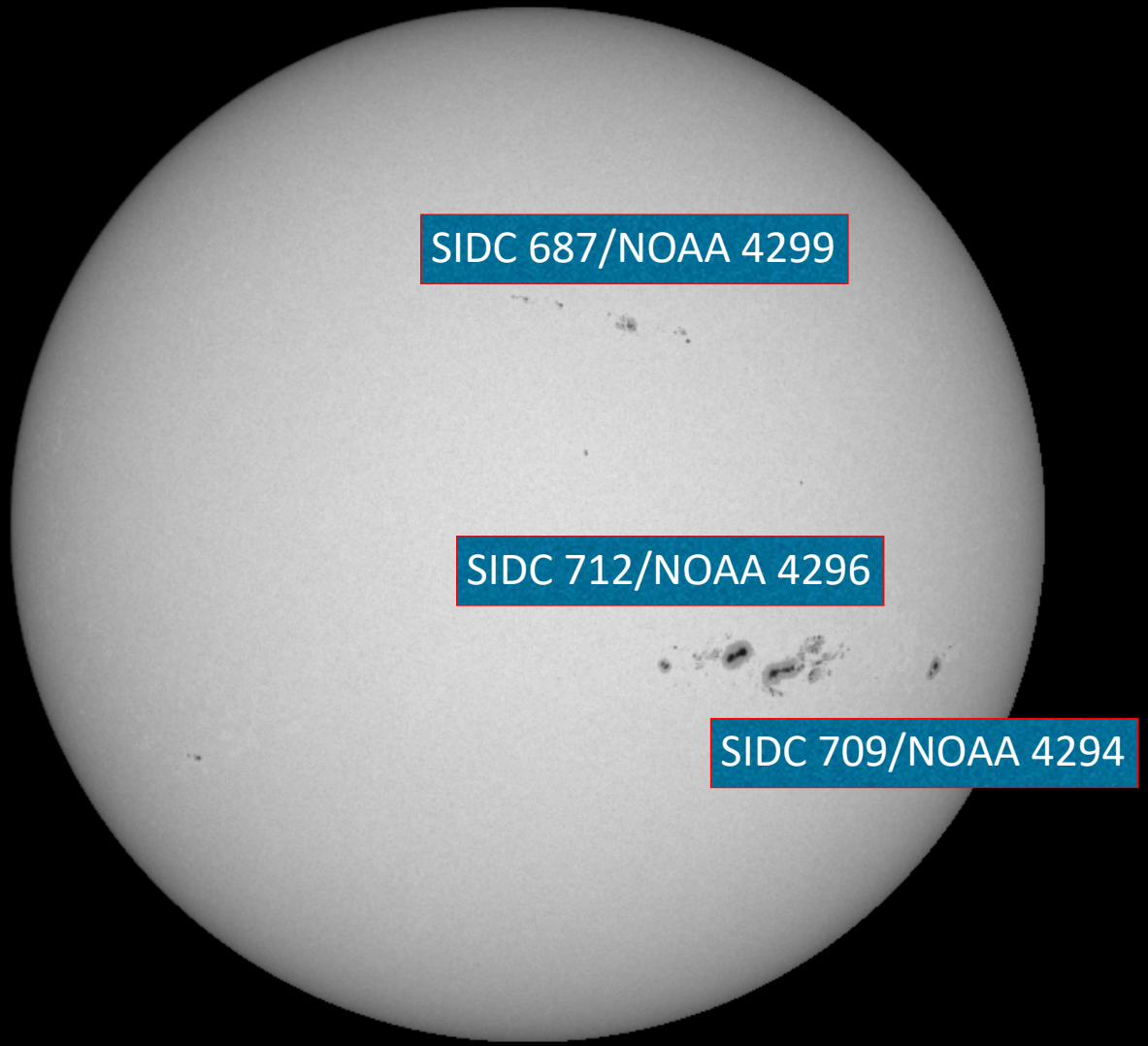


SDO/HMI Magnetogram 2025-12-07

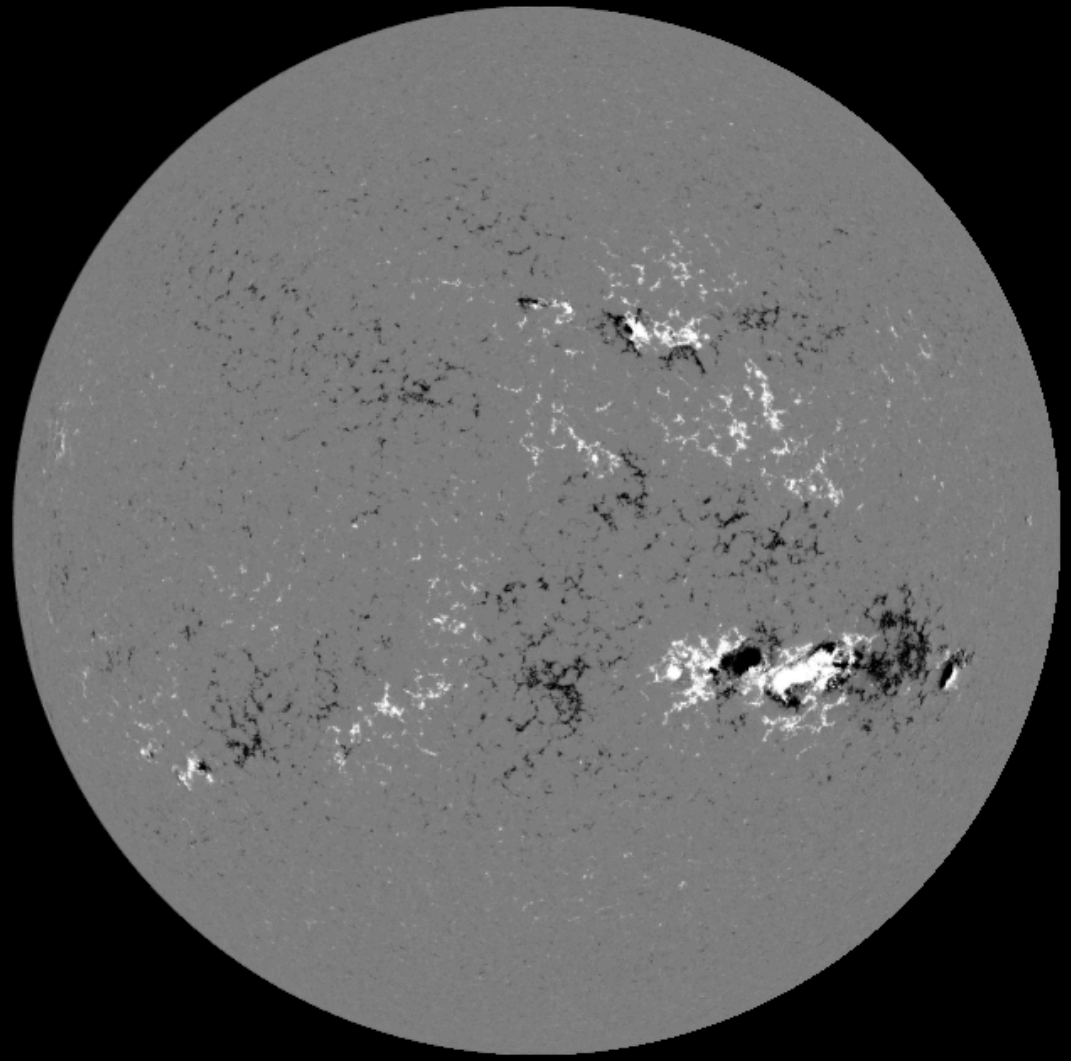


Solar active regions

SDO/HMI White Light 2025-12-08

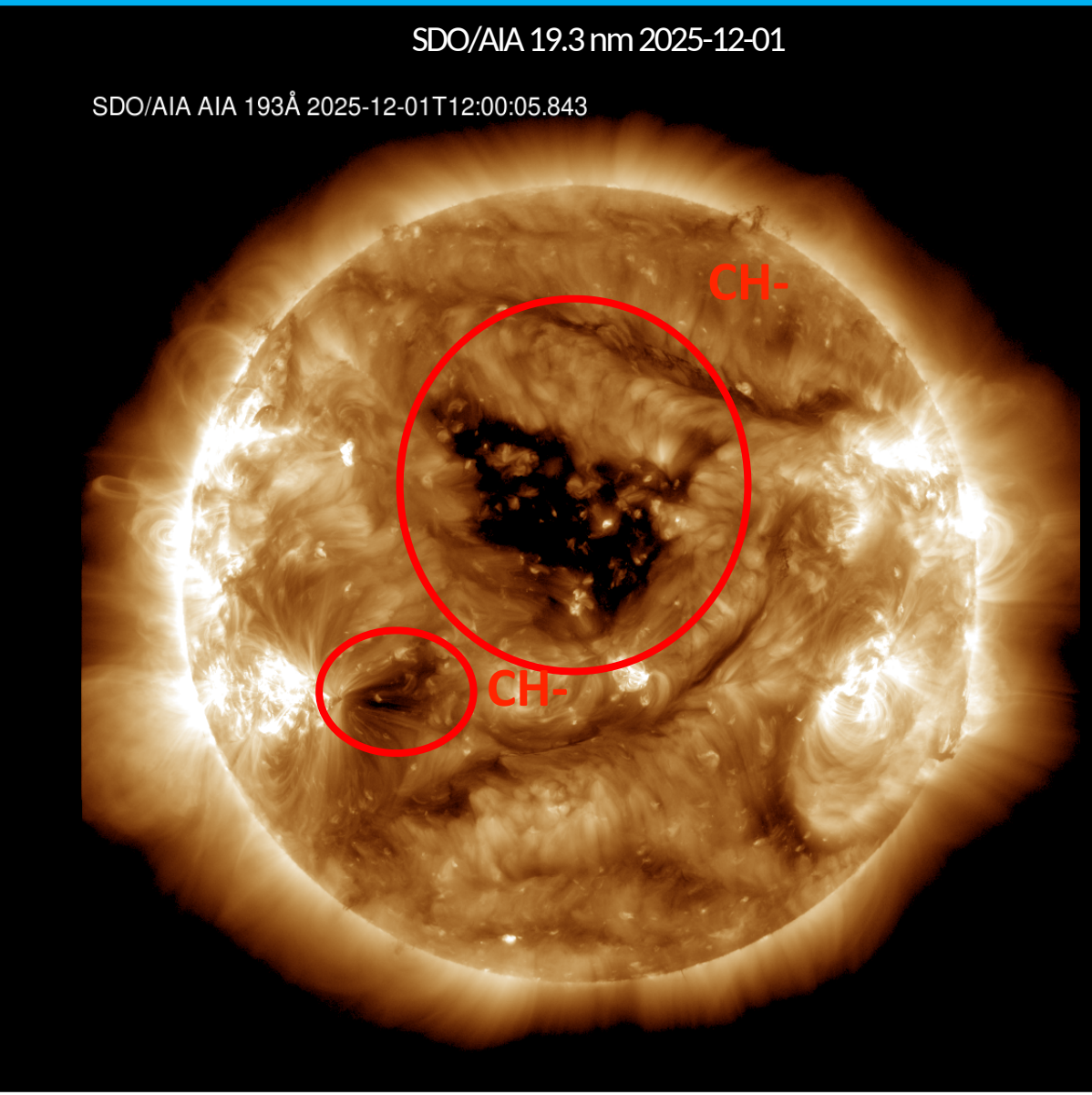


SDO/HMI Magnetogram 2025-12-08

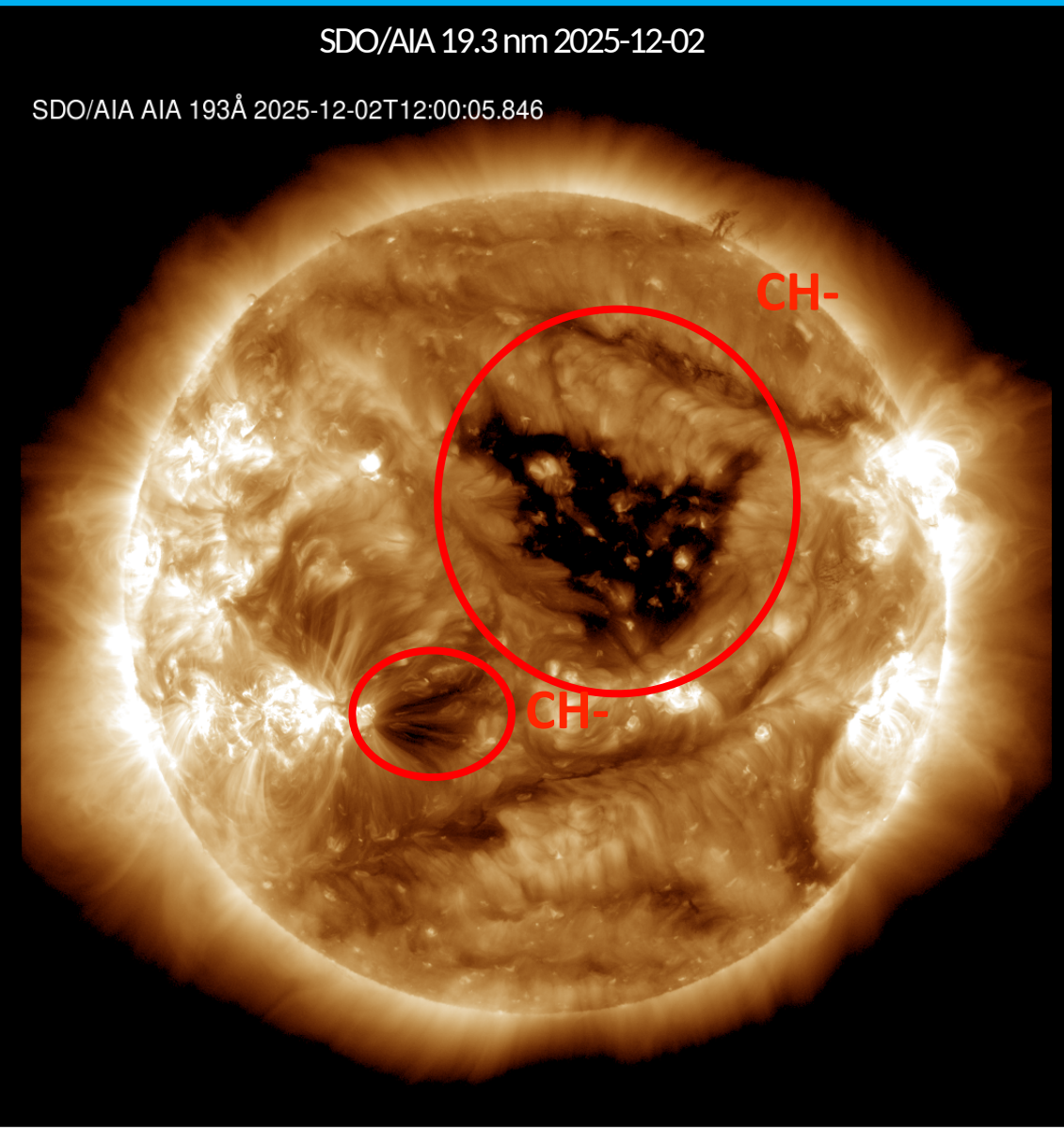


Coronal holes

SDO/AIA 19.3 nm 2025-12-01

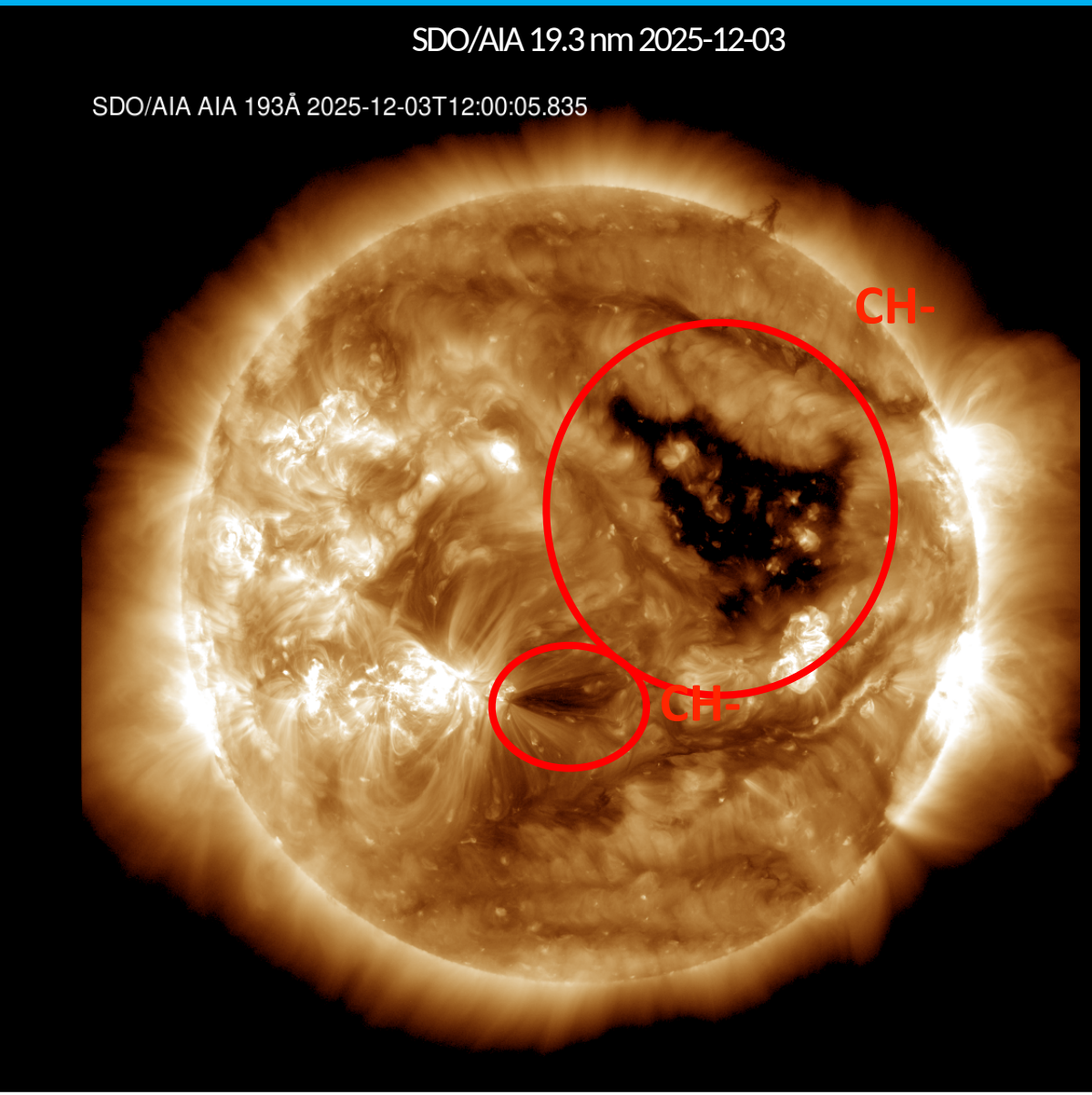


SDO/AIA 19.3 nm 2025-12-02

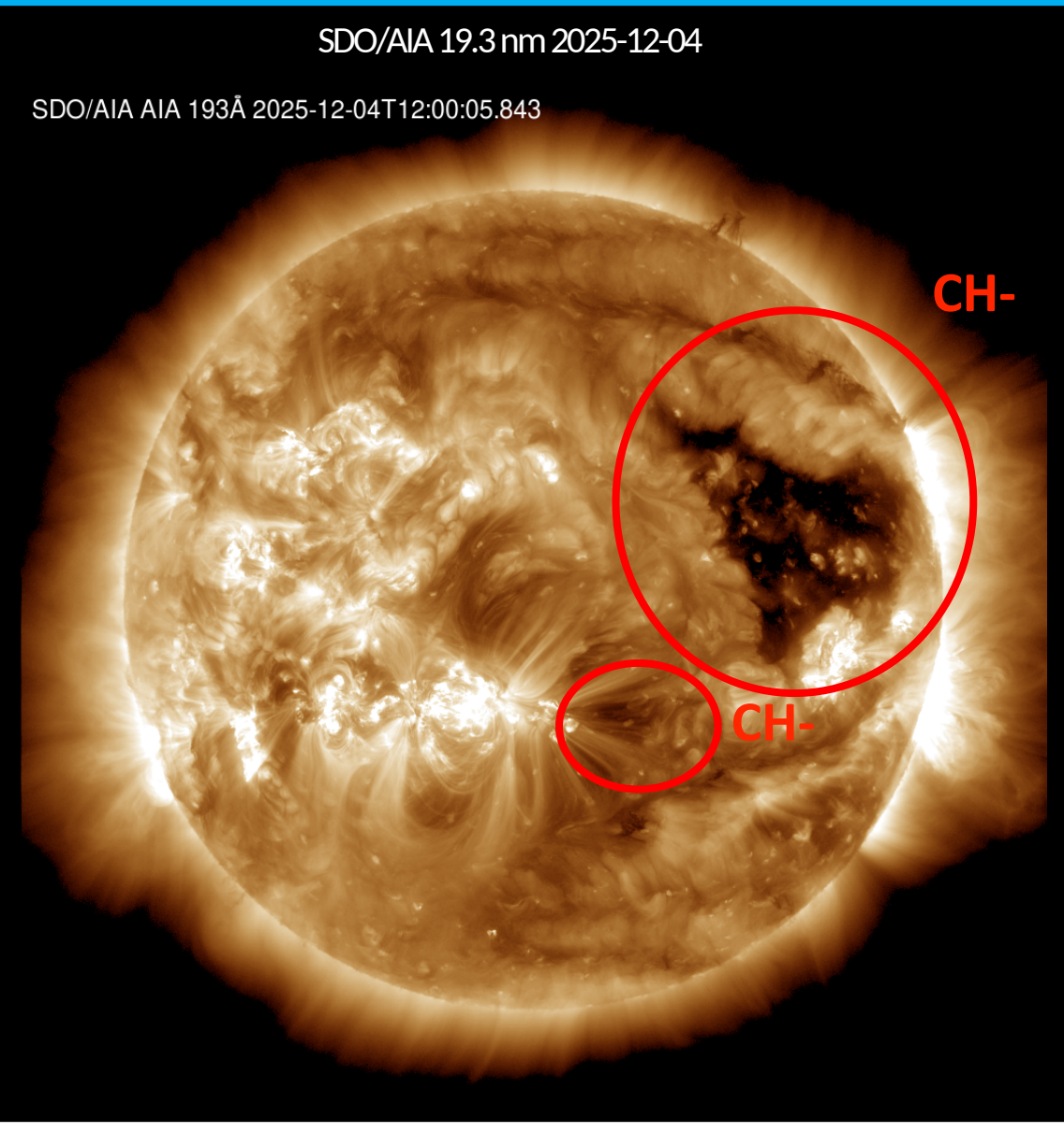


Coronal holes

SDO/AIA 19.3 nm 2025-12-03

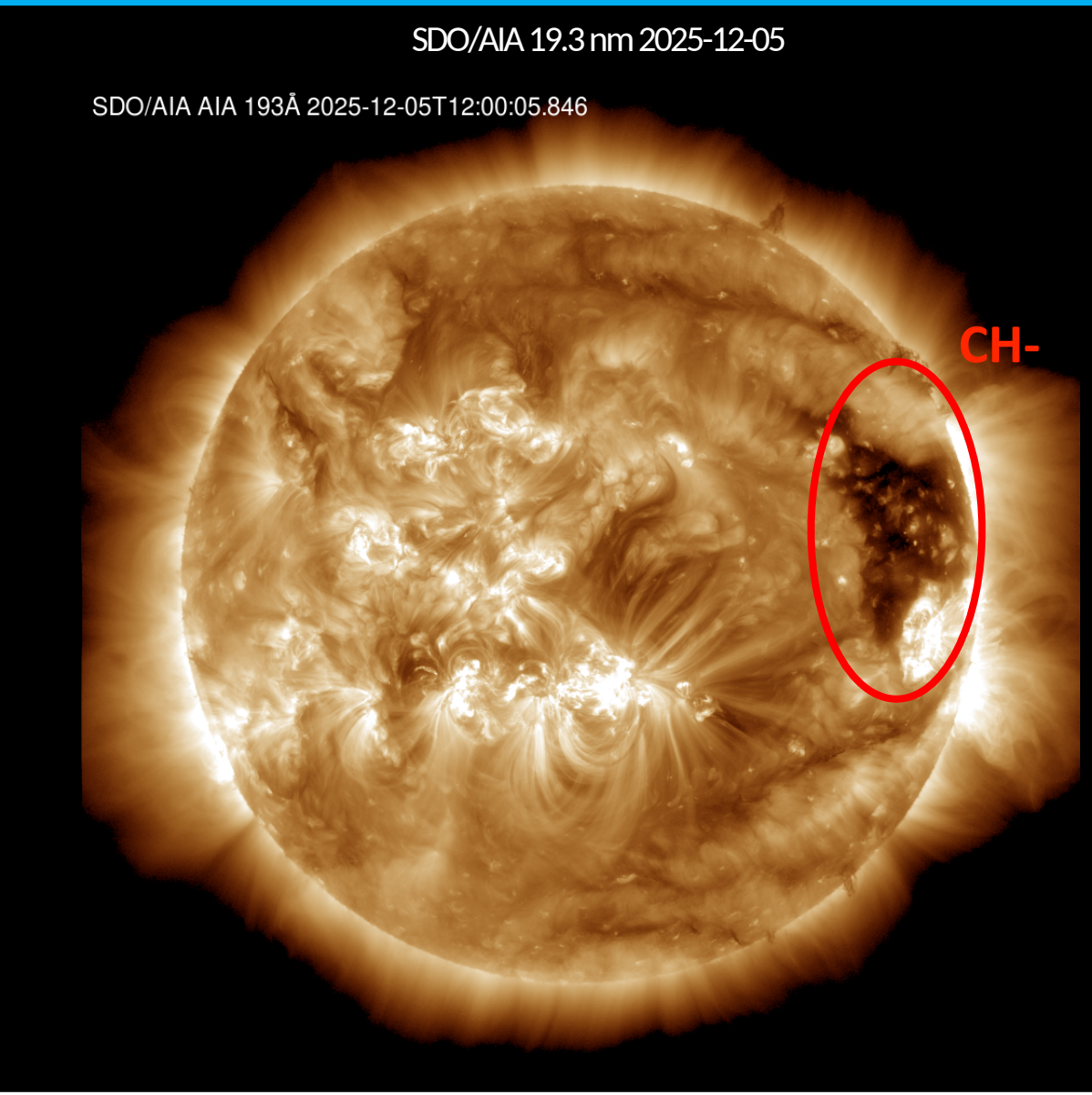


SDO/AIA 19.3 nm 2025-12-04

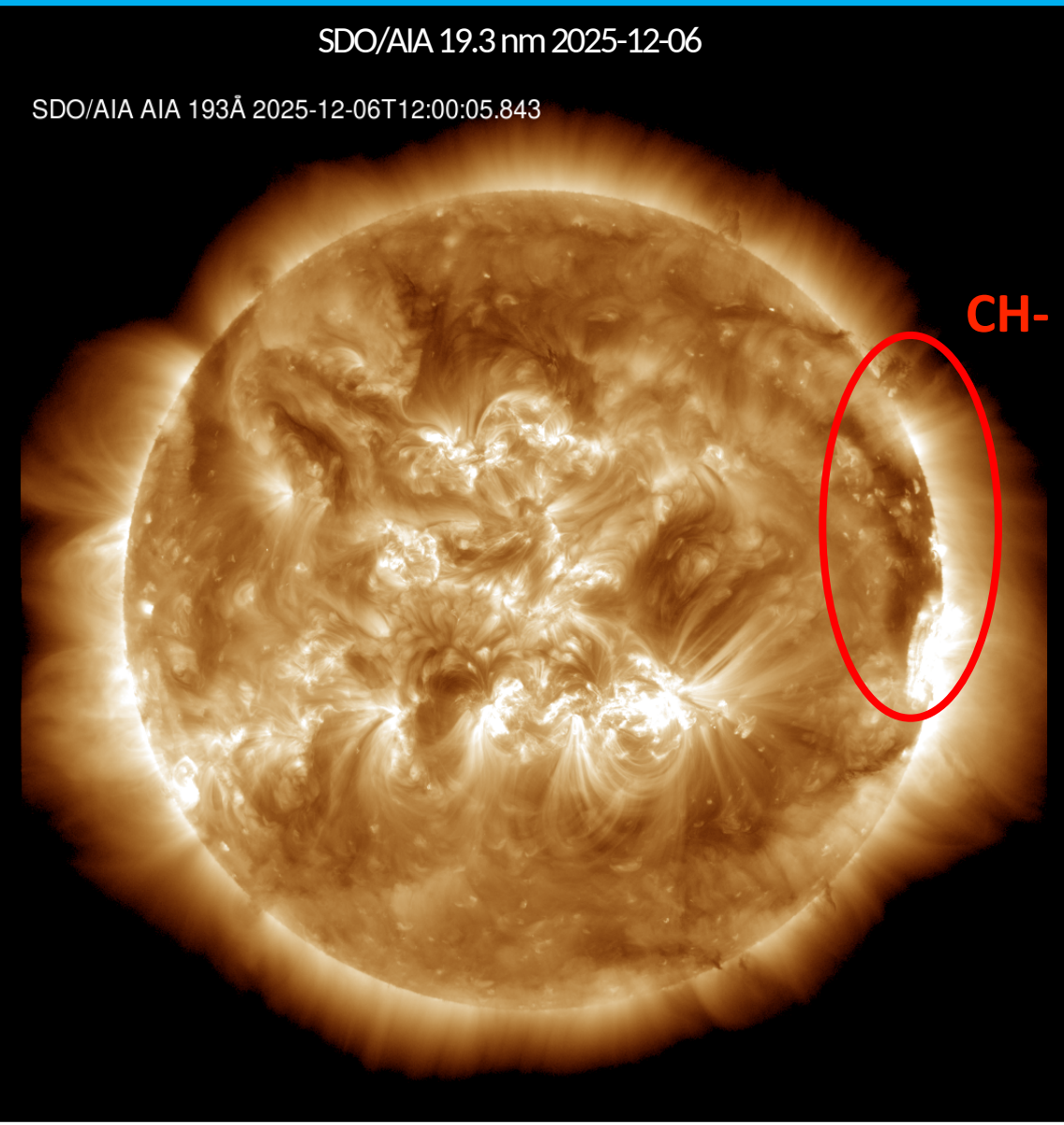


Coronal holes

SDO/AIA 19.3 nm 2025-12-05

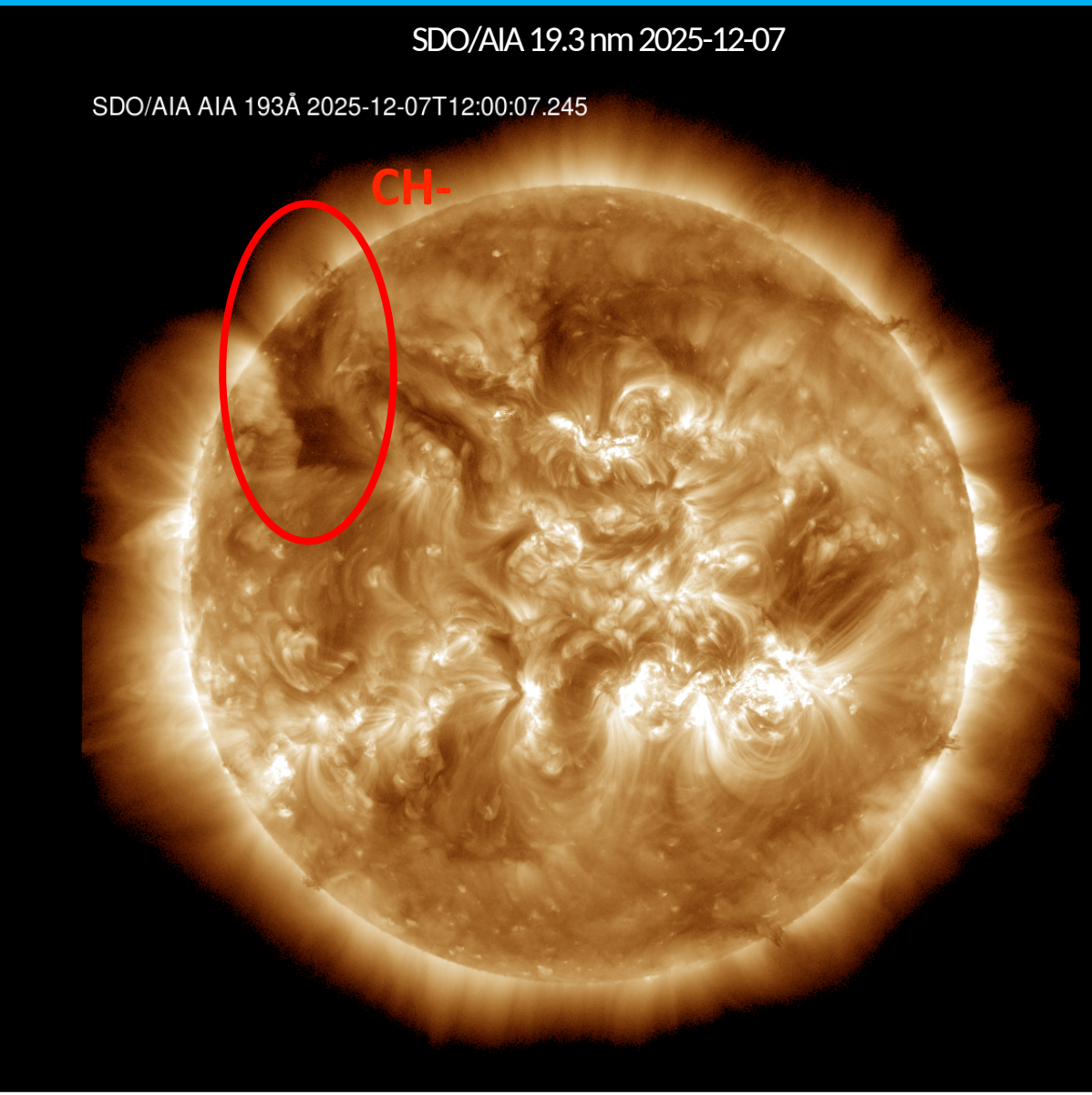


SDO/AIA 19.3 nm 2025-12-06

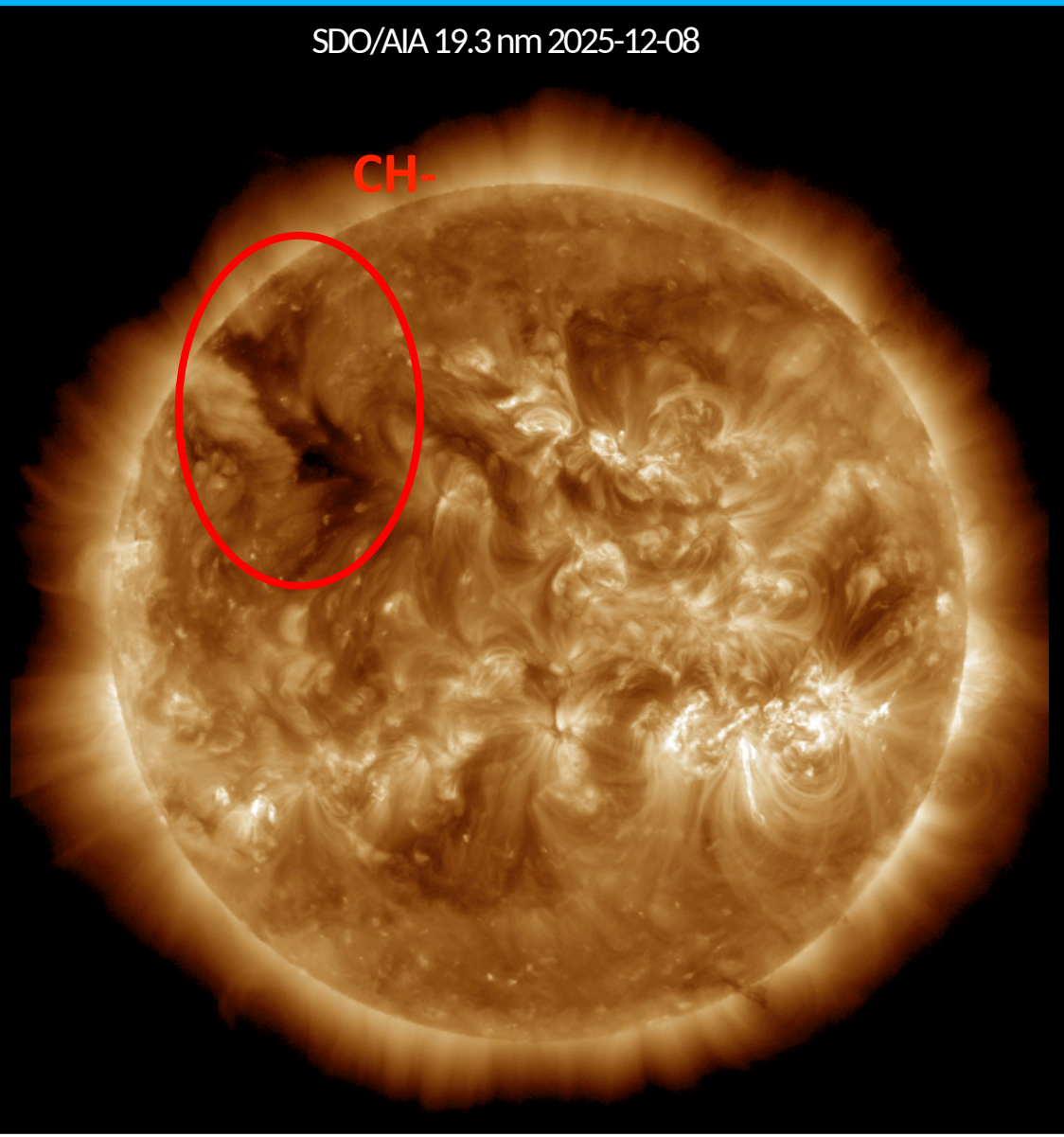


Coronal holes

SDO/AIA 19.3 nm 2025-12-07

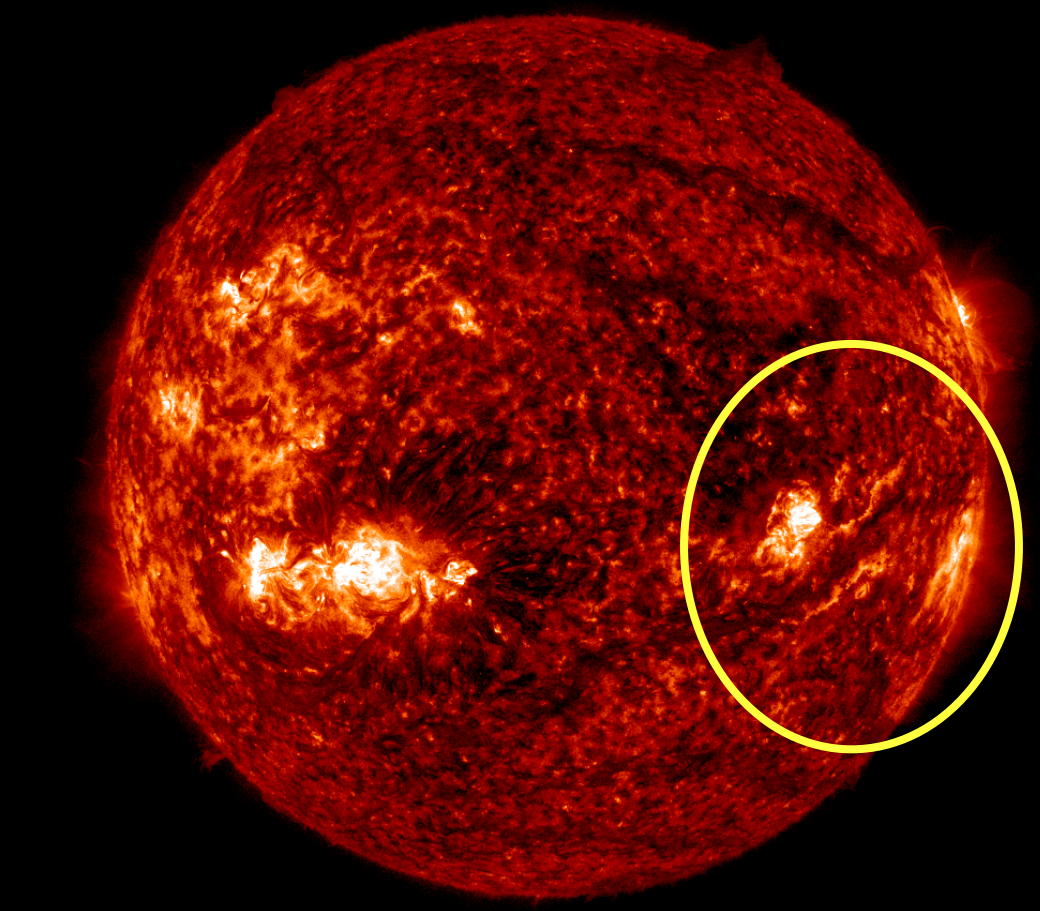


SDO/AIA 19.3 nm 2025-12-08

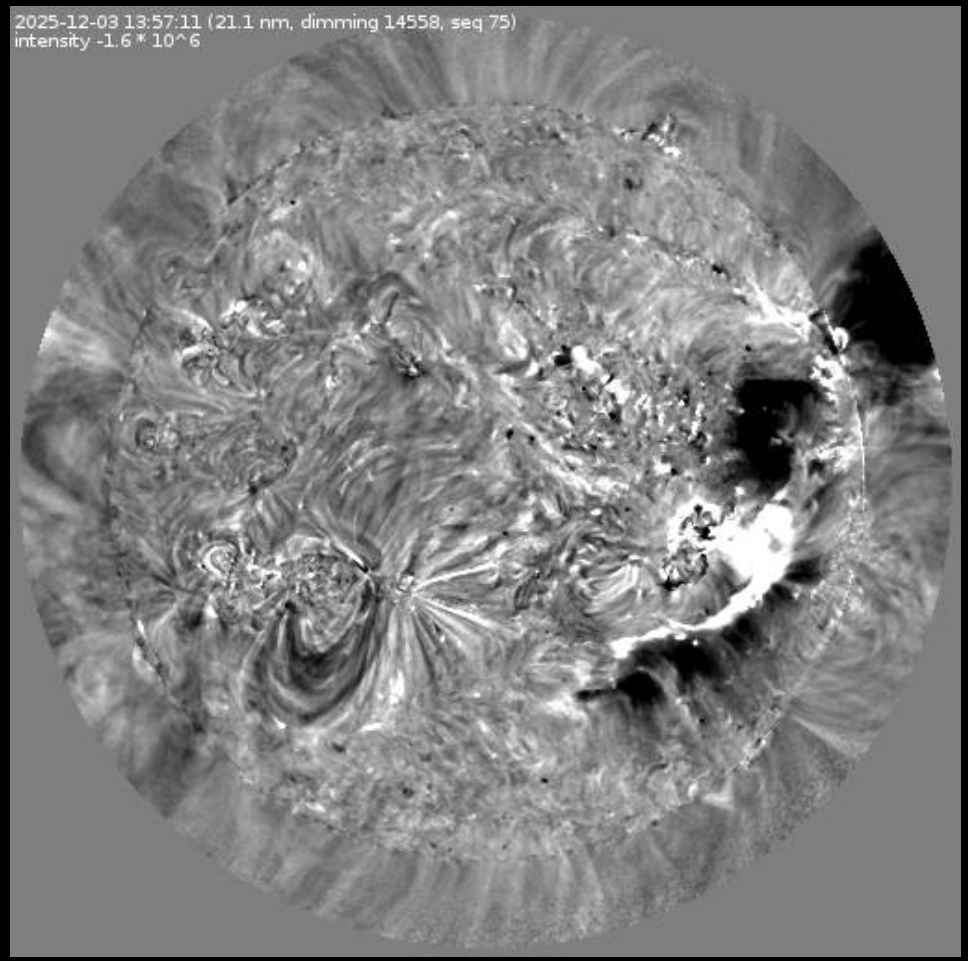


Filaments

SDO/AIA 30.4 nm 2025-12-03

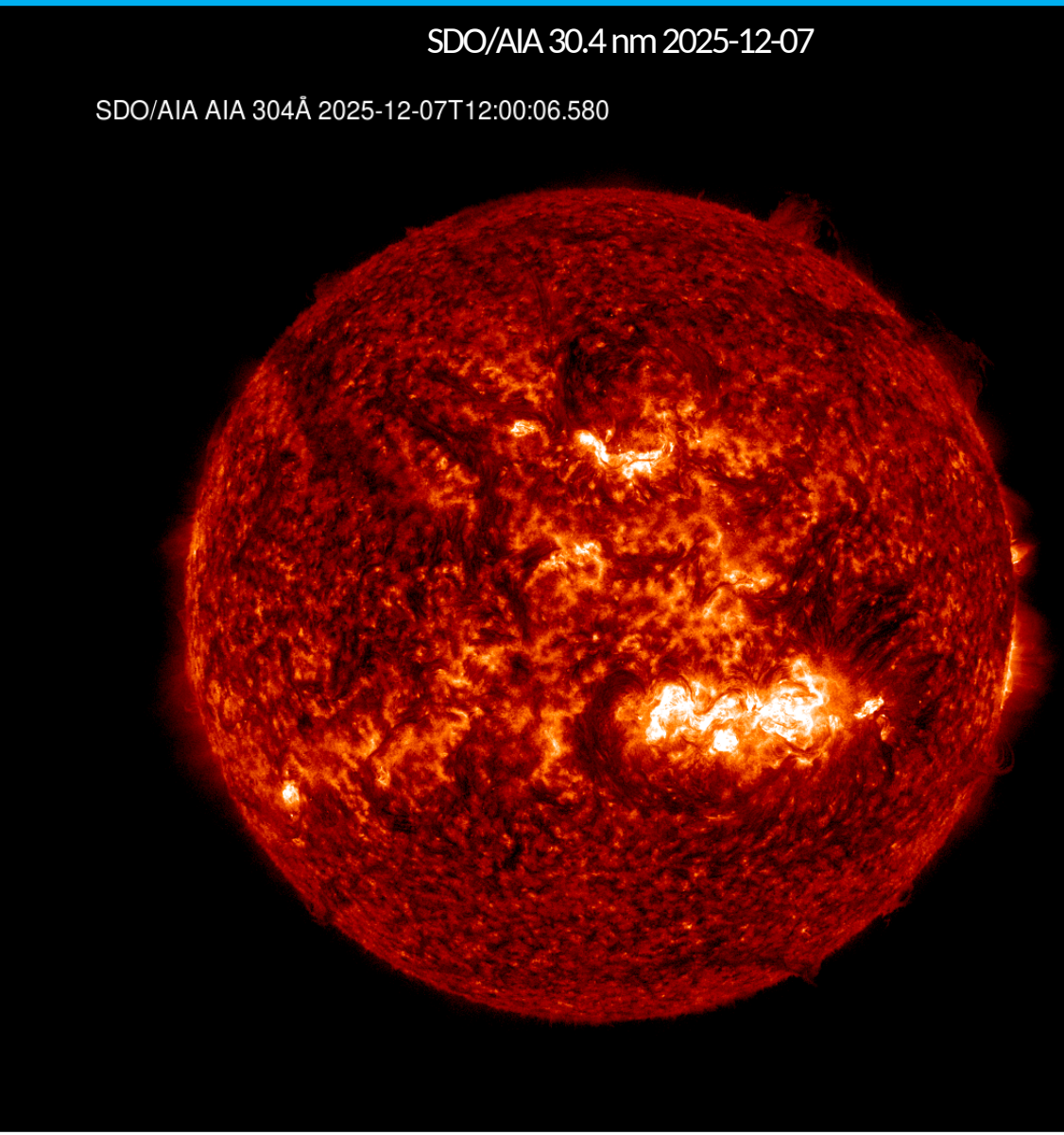


SDO/AIA 30.4 nm 2025-12-03

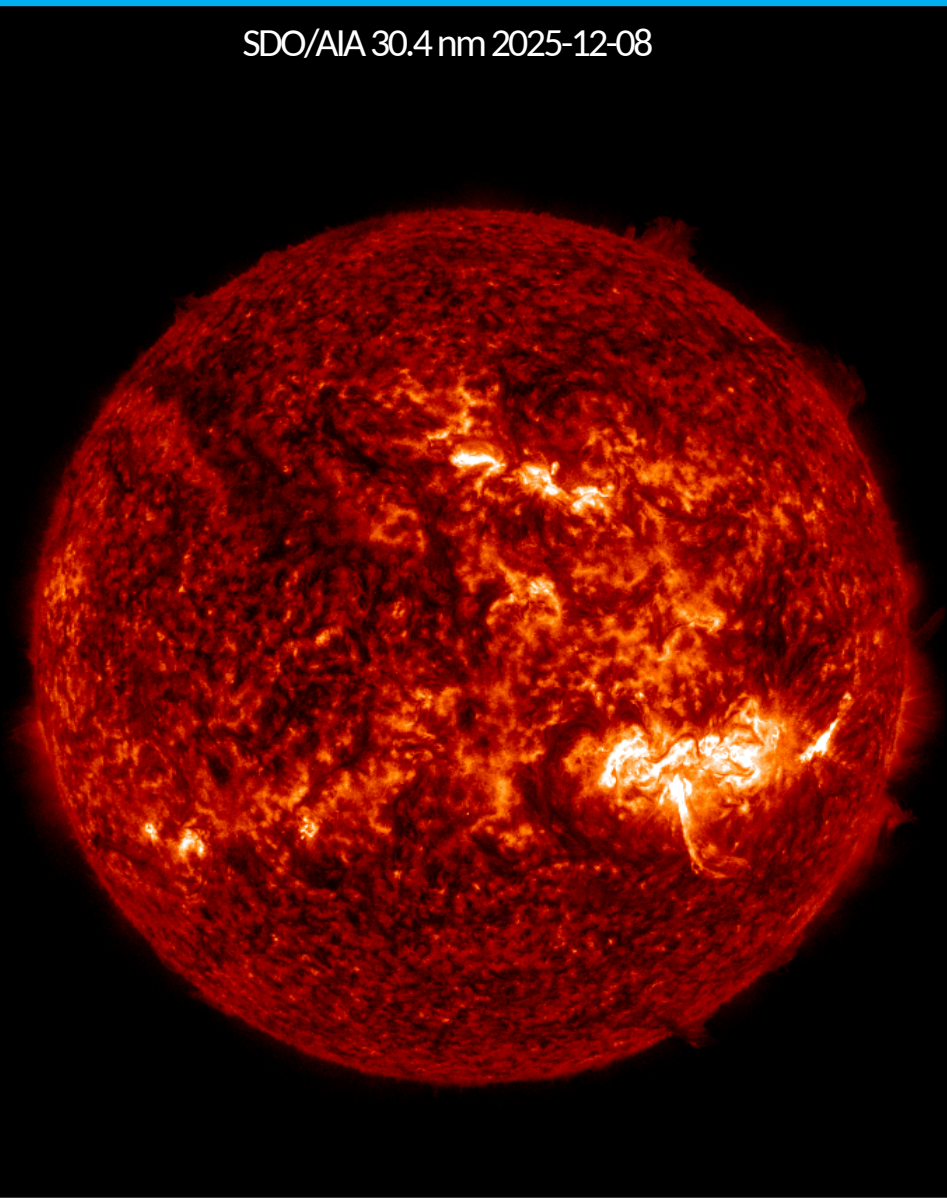


Filaments

SDO/AIA 30.4 nm 2025-12-07

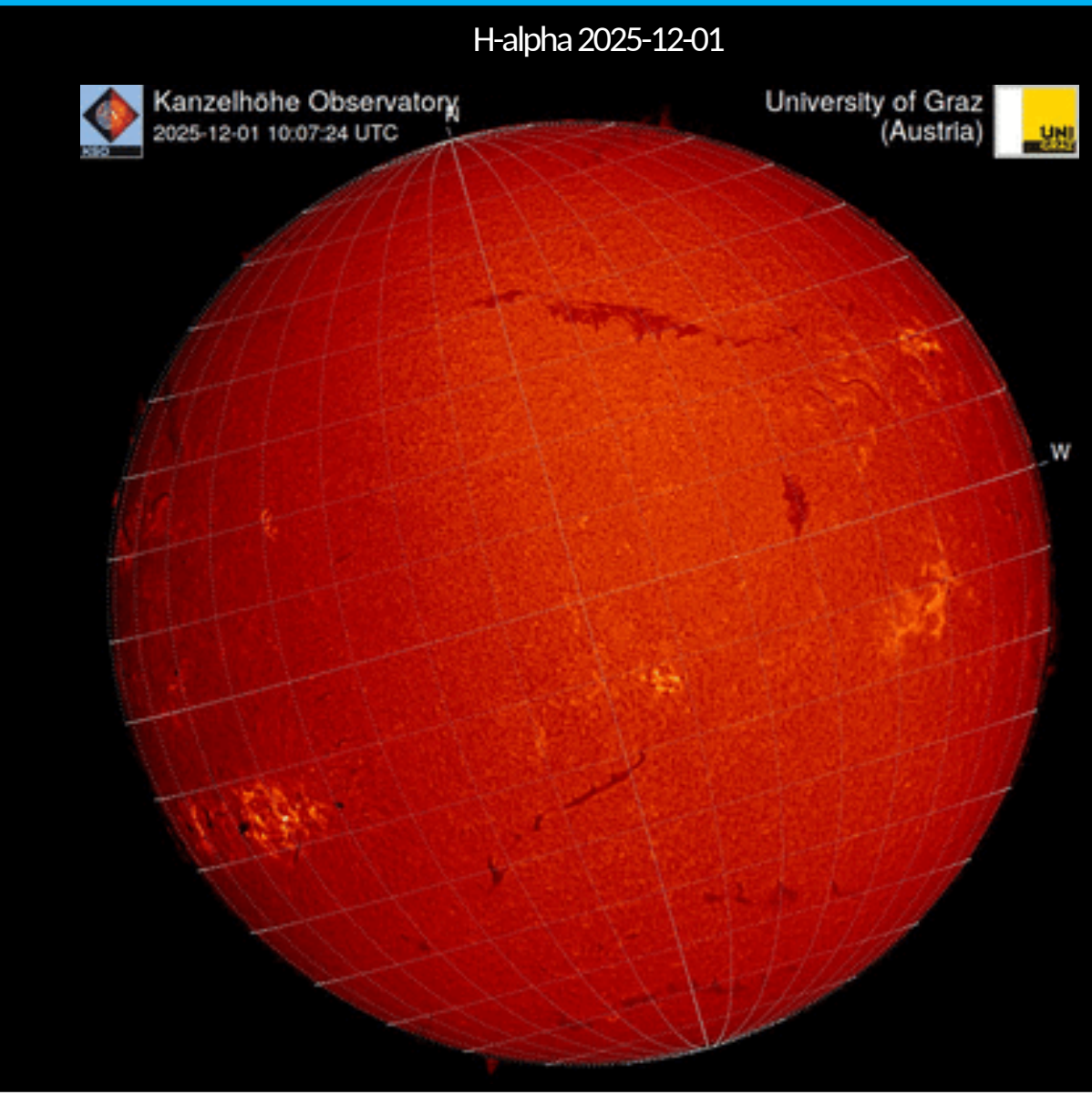


SDO/AIA 30.4 nm 2025-12-08

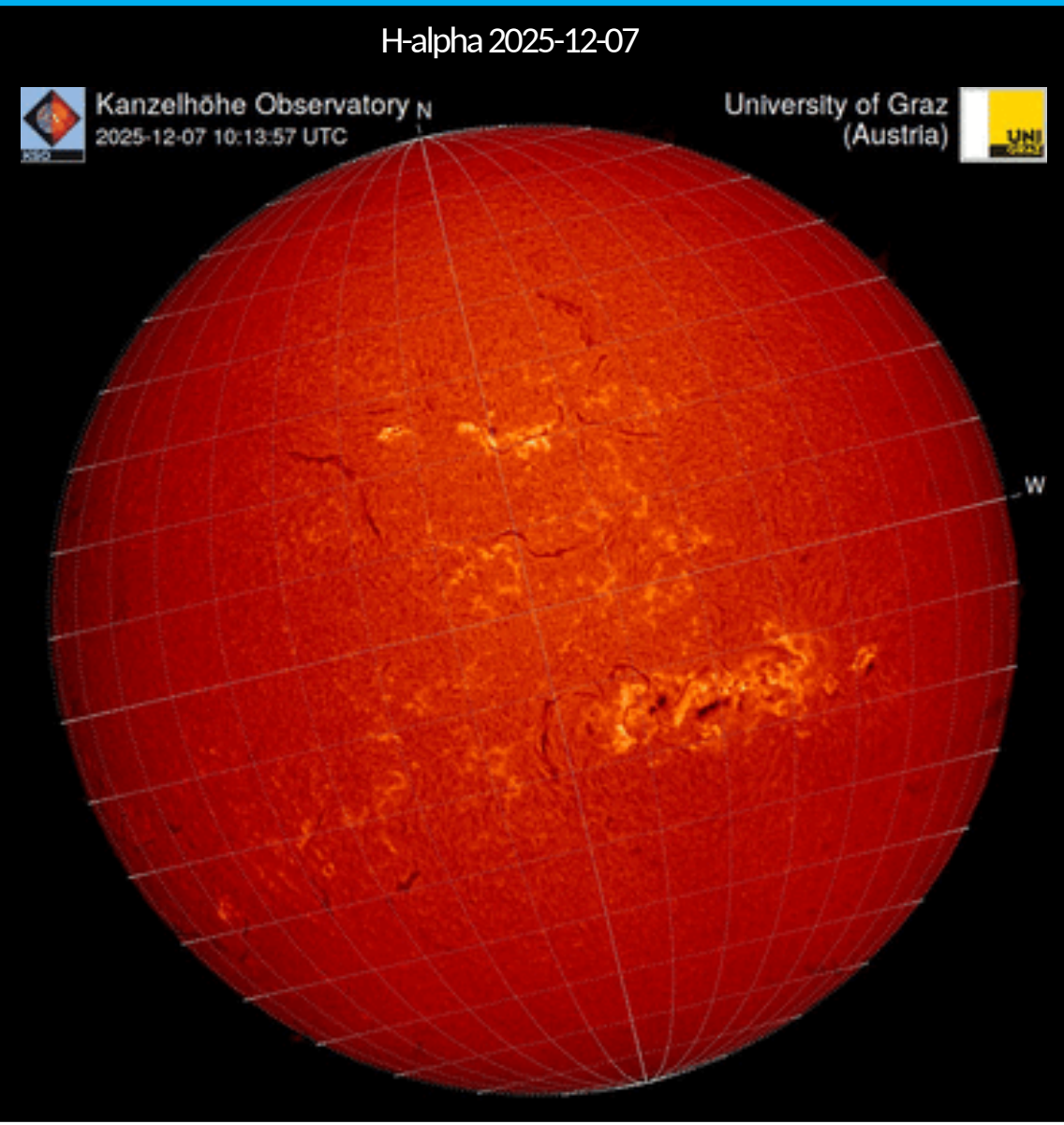


Filaments & Filament eruptions

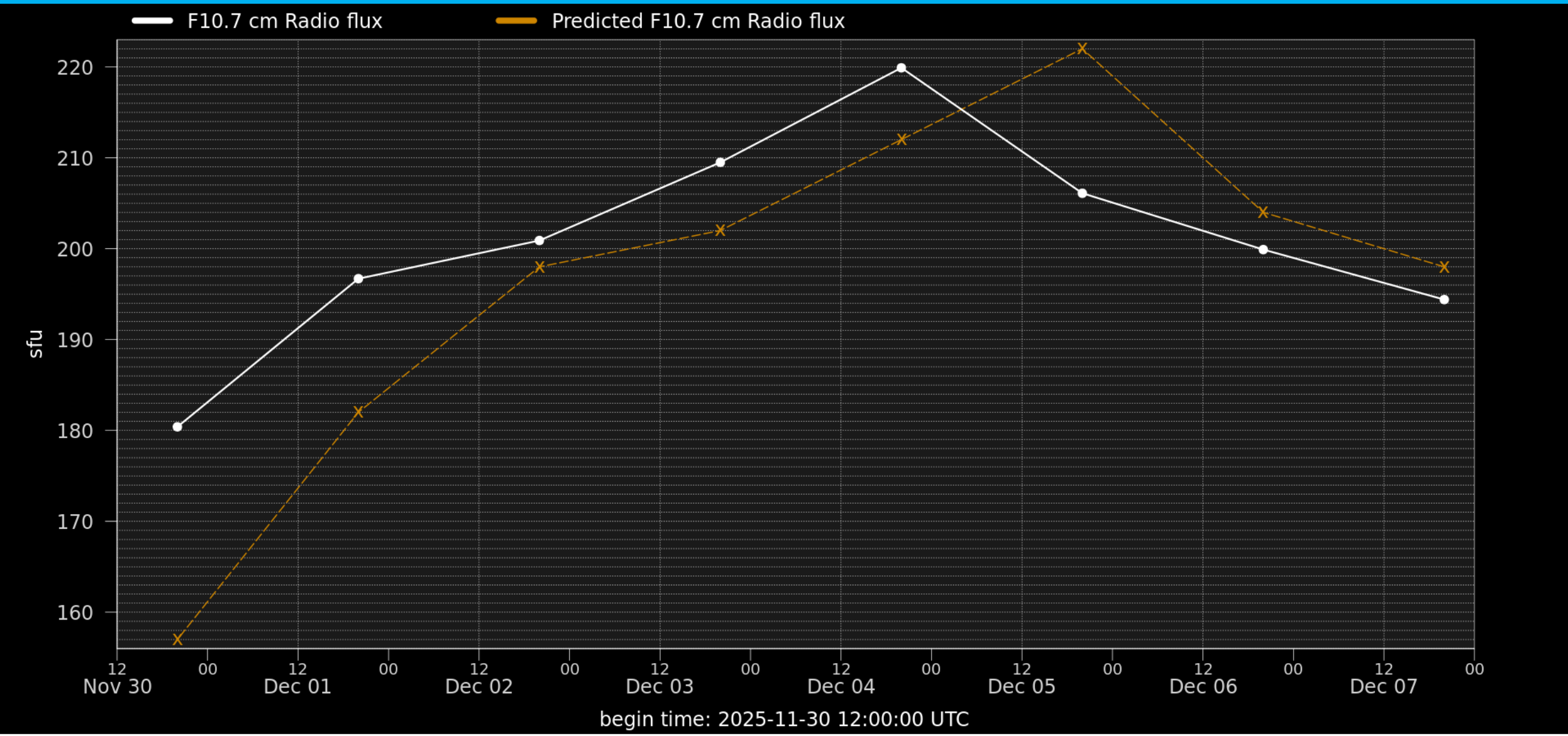
H-alpha 2025-12-01



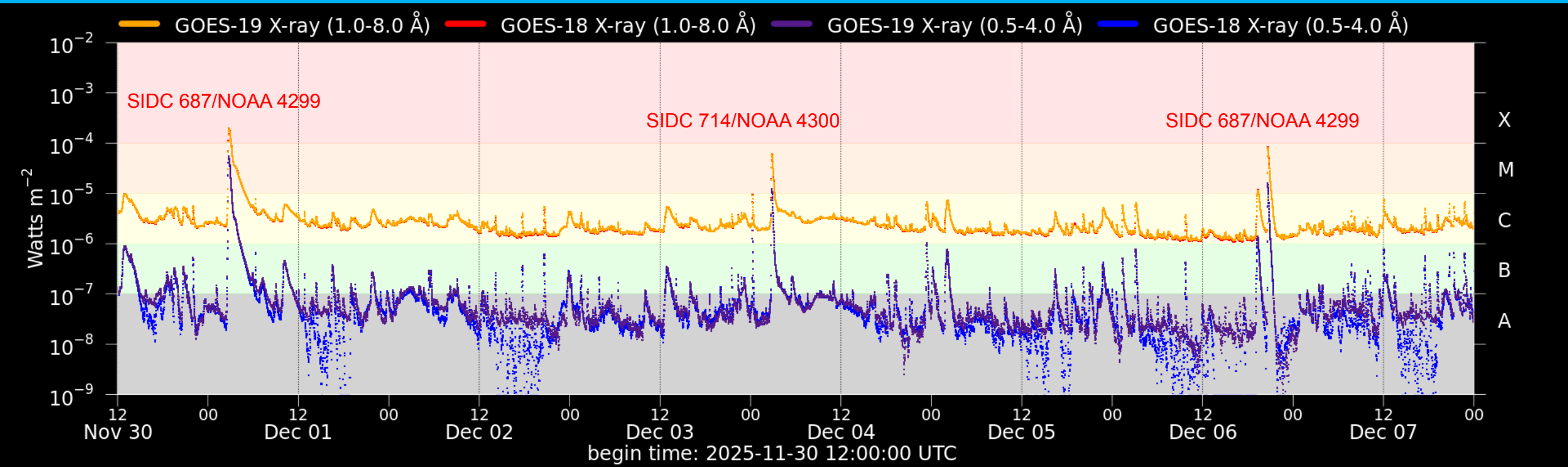
H-alpha 2025-12-07



Solar F10.7cm radio flux



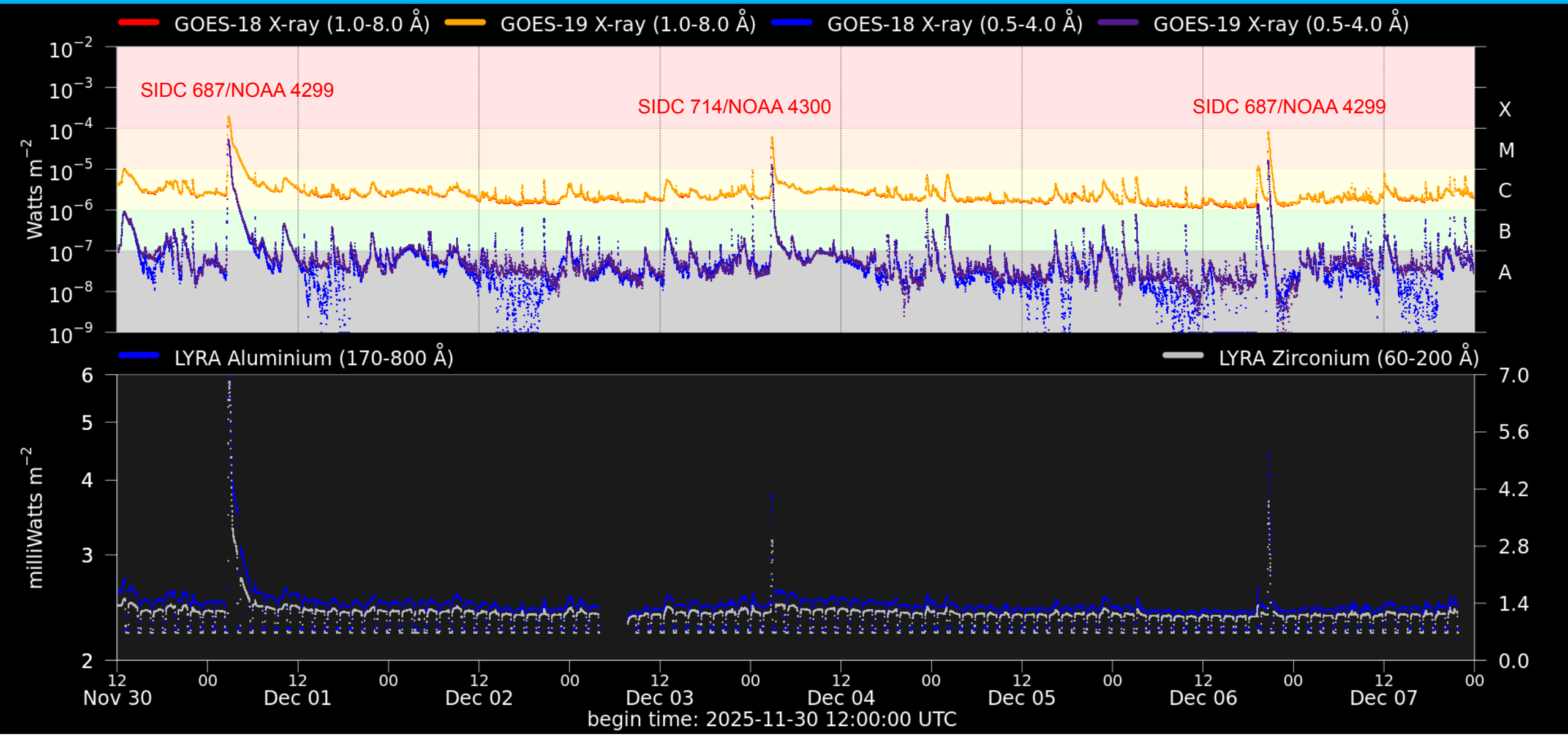
Flaring activity



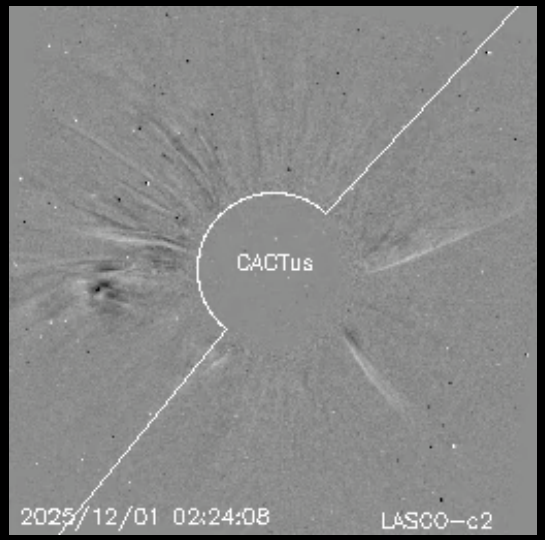
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2025-11-30	2025-12-01	2025-12-02	2025-12-03	2025-12-04	2025-12-05	2025-12-06	2025-12-07
Probability (%)	99|90|25	99|80|30	99|85|20	99|93|27	99|90|30	99|89|17	99|85|20	99|90|25
Observed (#)	03|00|01	03|00|00	06|00|00	03|01|00	05|00|00	10|00|00	07|02|00	08|02|00

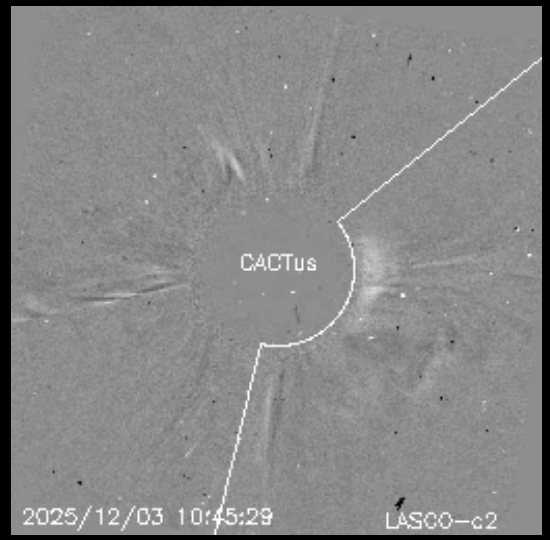
Solar X-Ray and UV flux



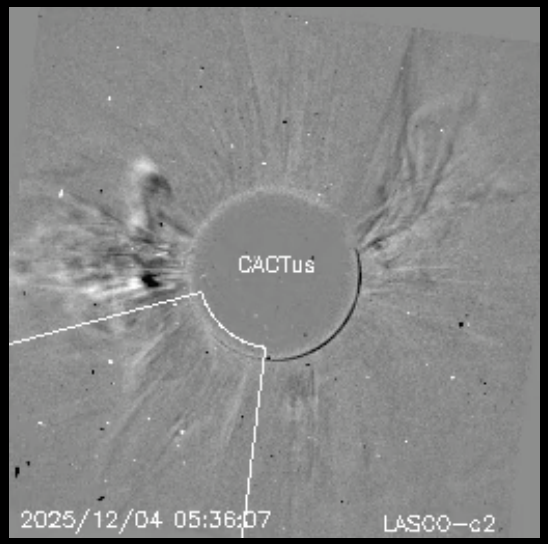
Coronal Mass Ejections



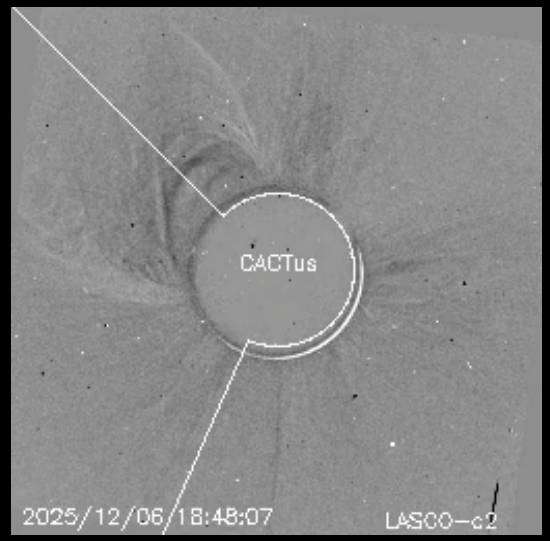
Dec 01: not expected



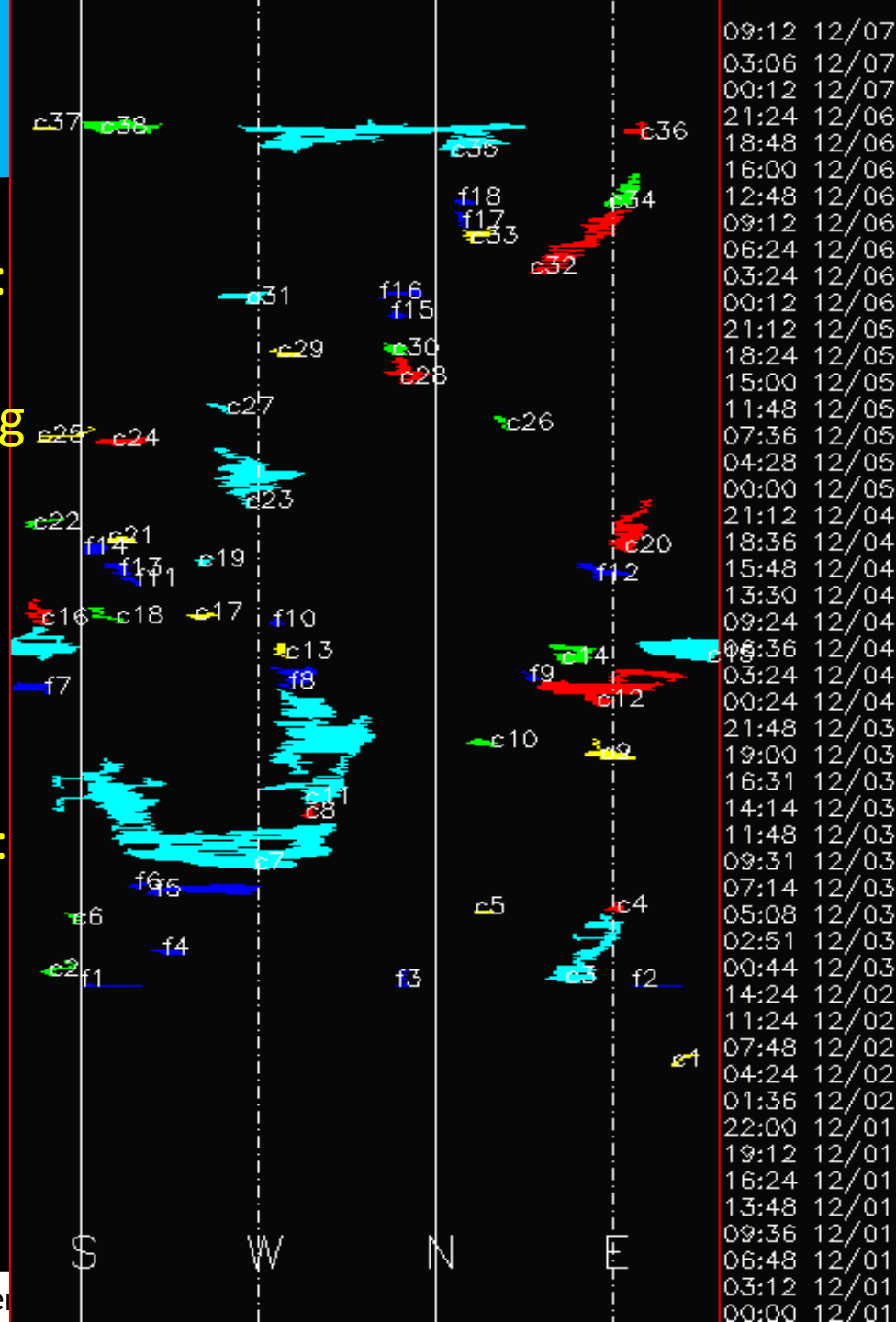
Dec 03: minor glancing blow Dec 06



Dec 04: minor glancing blow Dec 06/07



Dec 06: mod/ major storm Dec 09



Solar Wind and

Geomagnetic Activity

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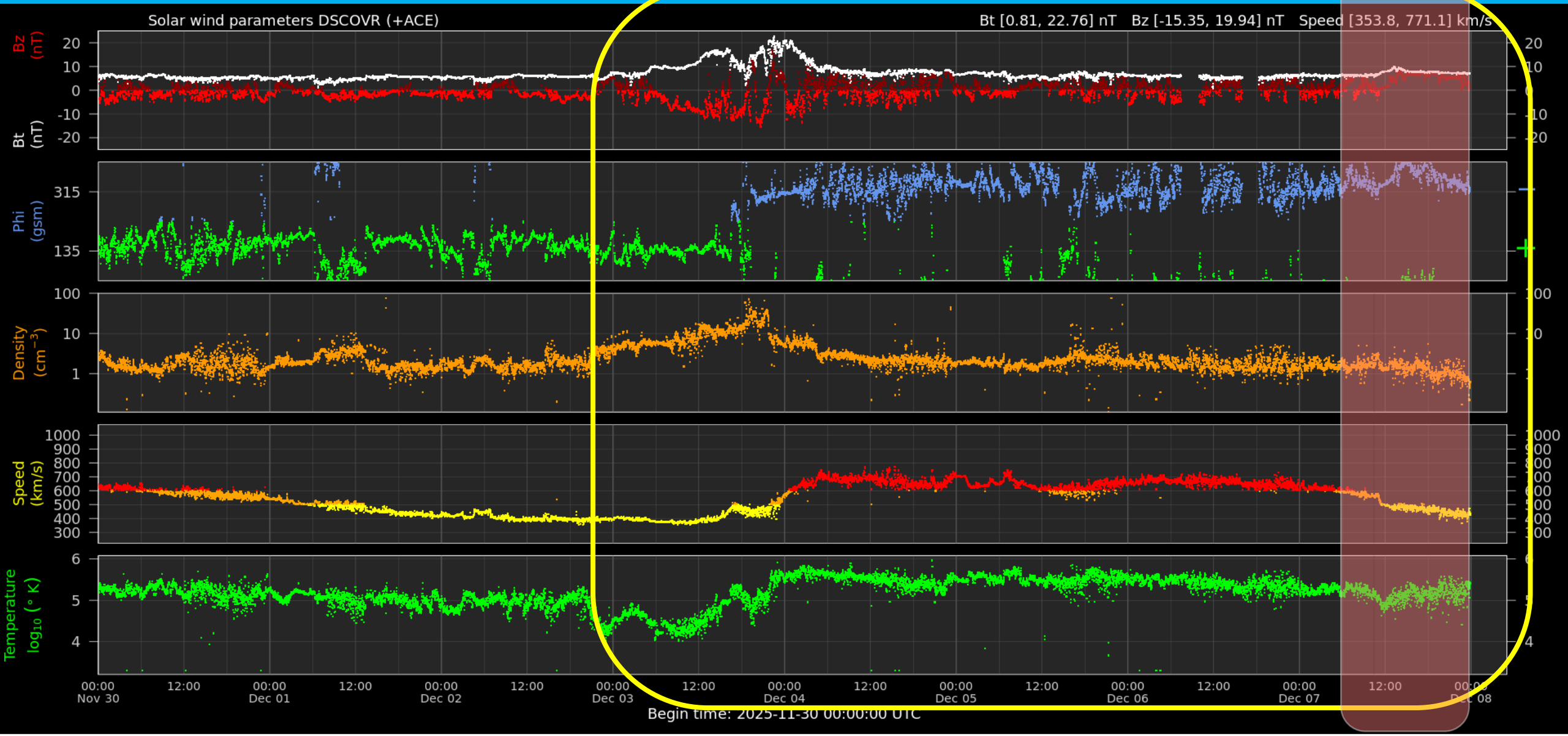
Solar wind parameters

CIR + HSS

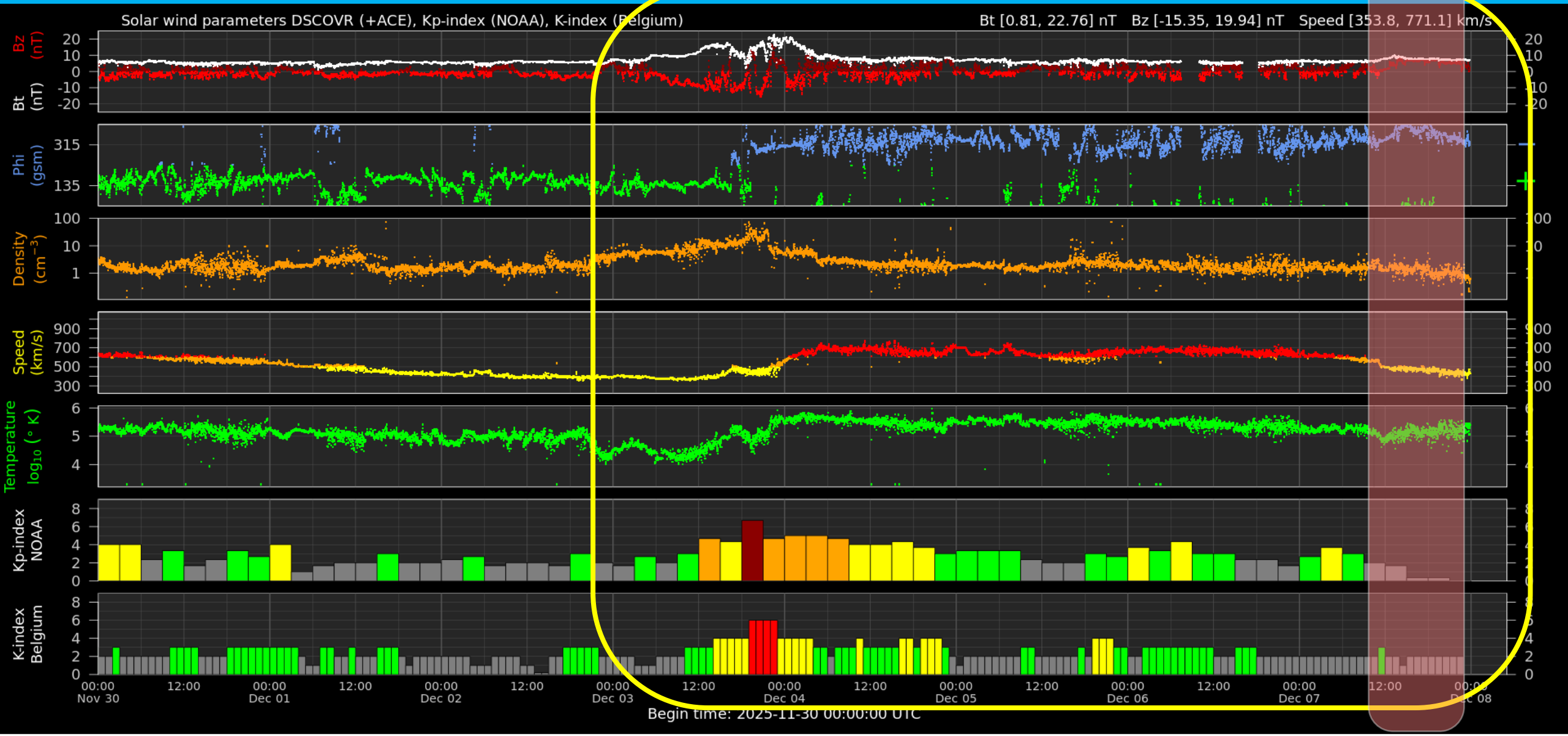
Dec 04 transient?



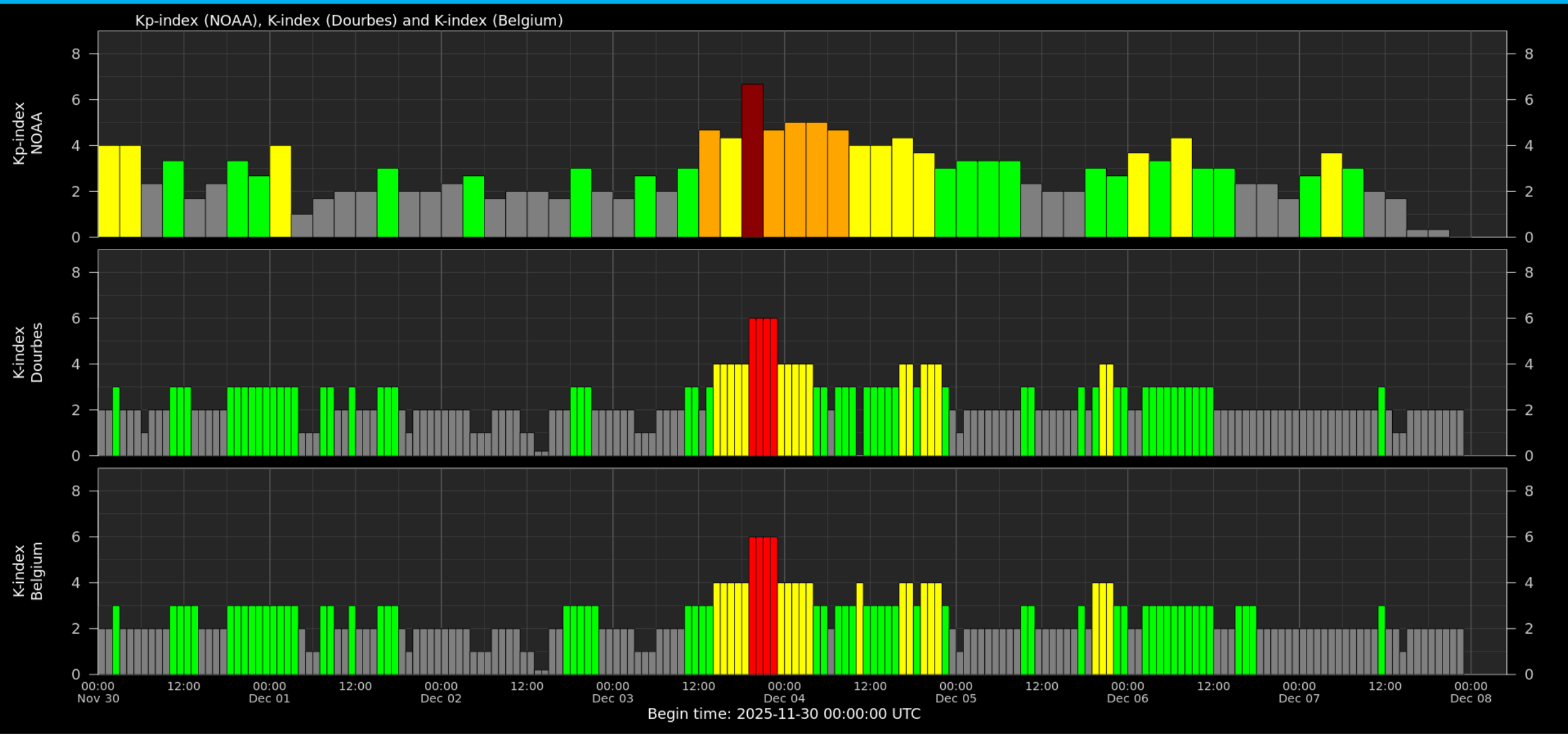
Solar wind parameters & K-indices

CIR + HSS

Dec 04 transient?



Geomagnetic activity (K-indexes)



Energetic Particles

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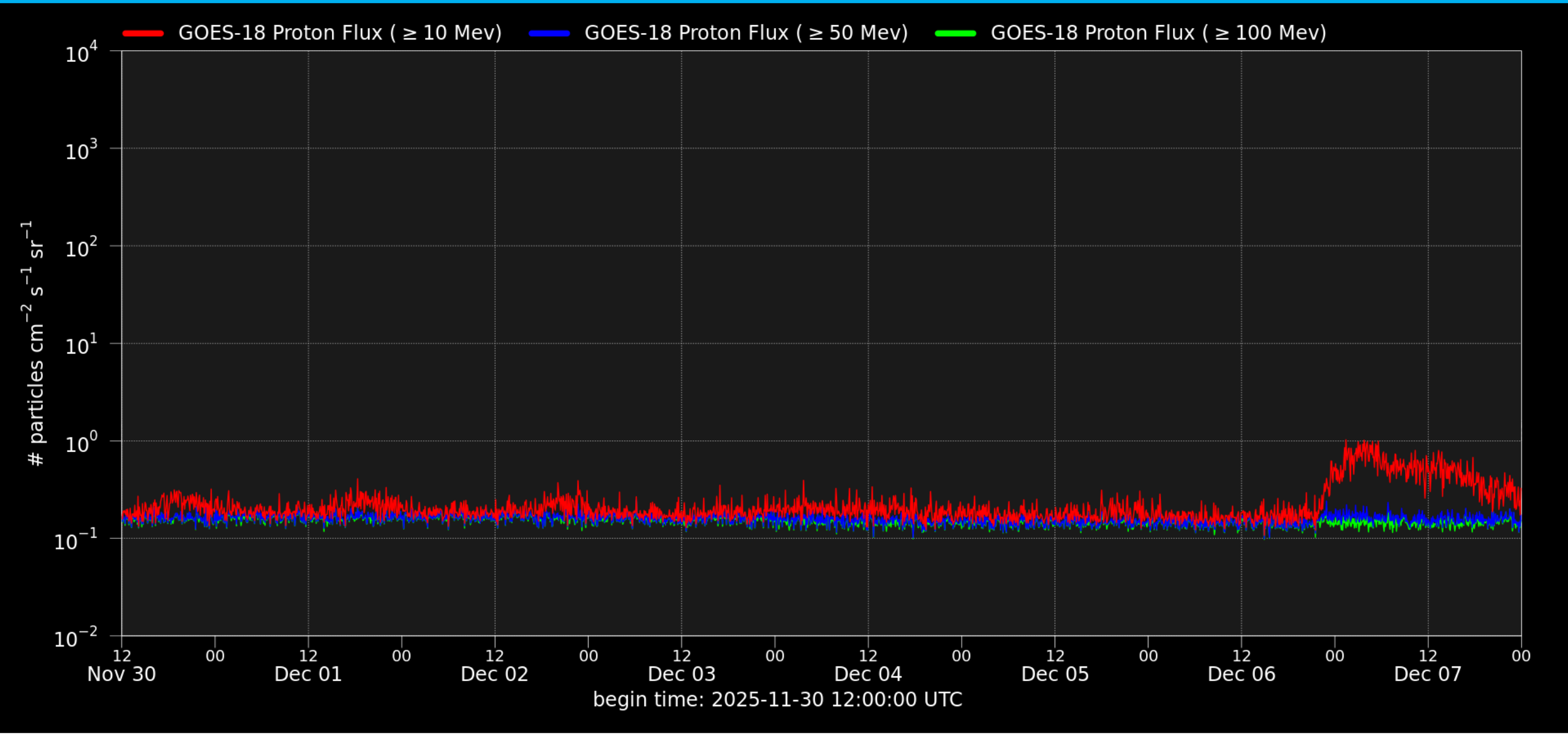
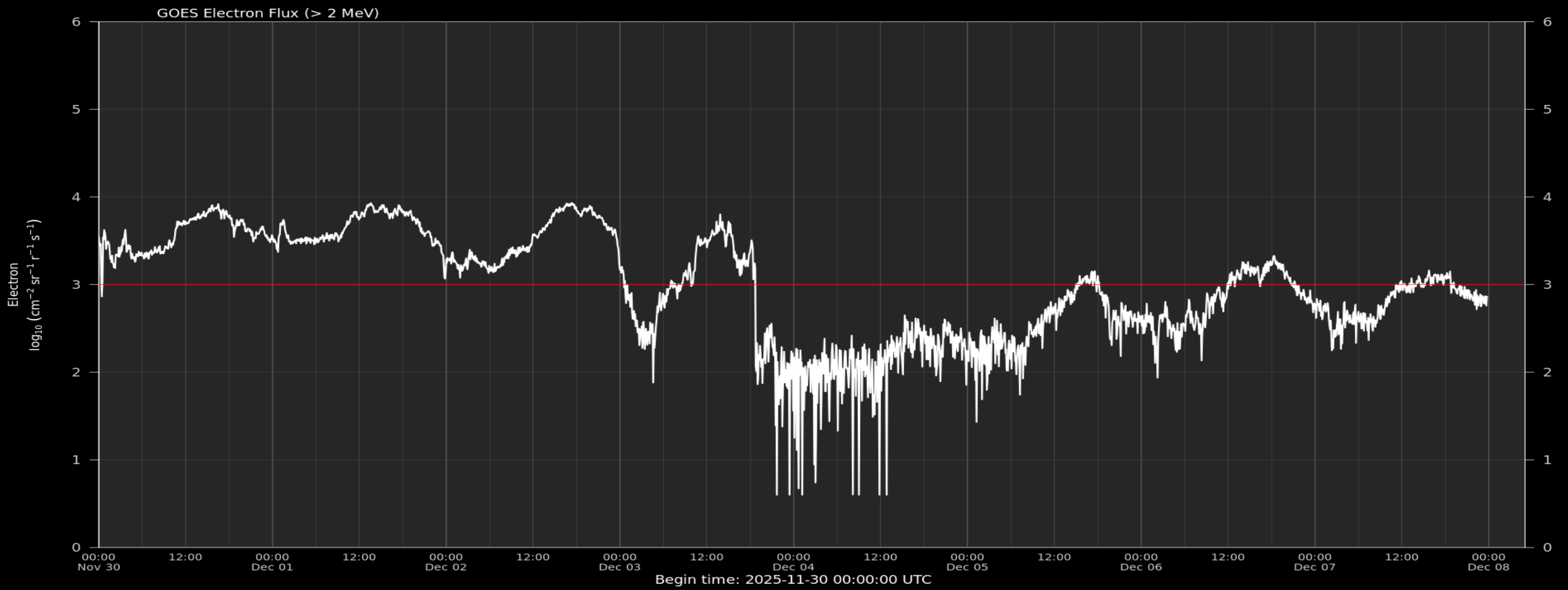
Solar proton flux



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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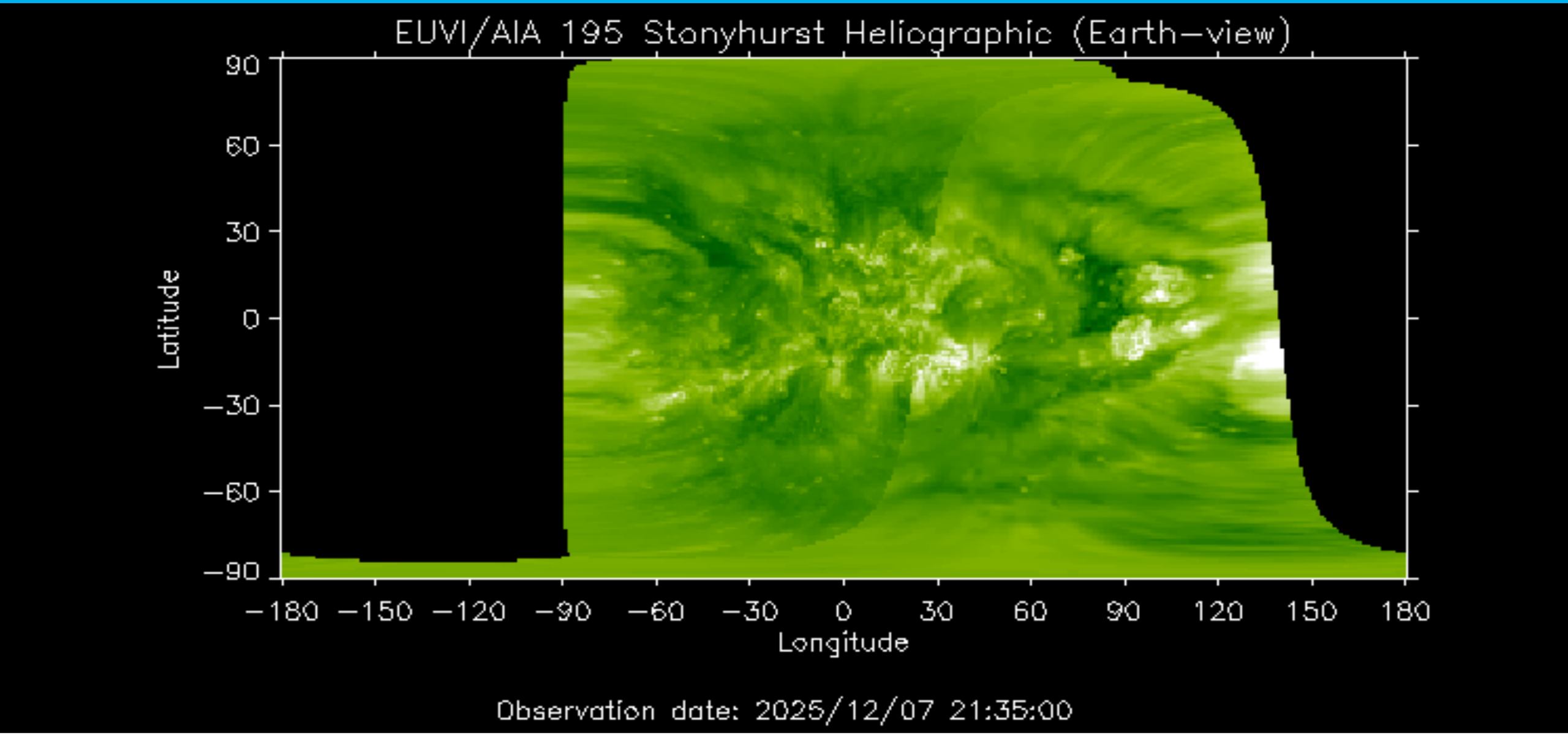
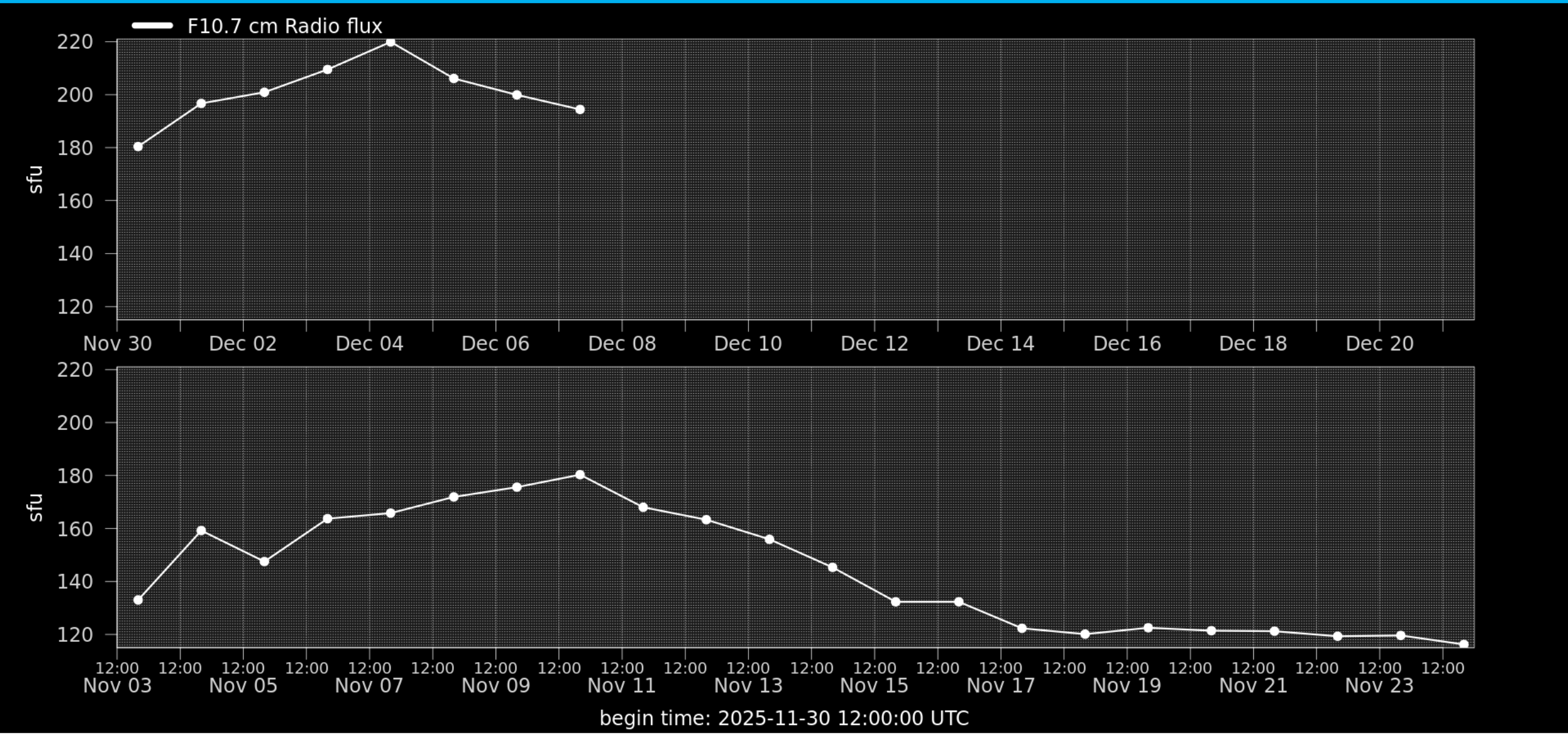
Outlook: Solar activity

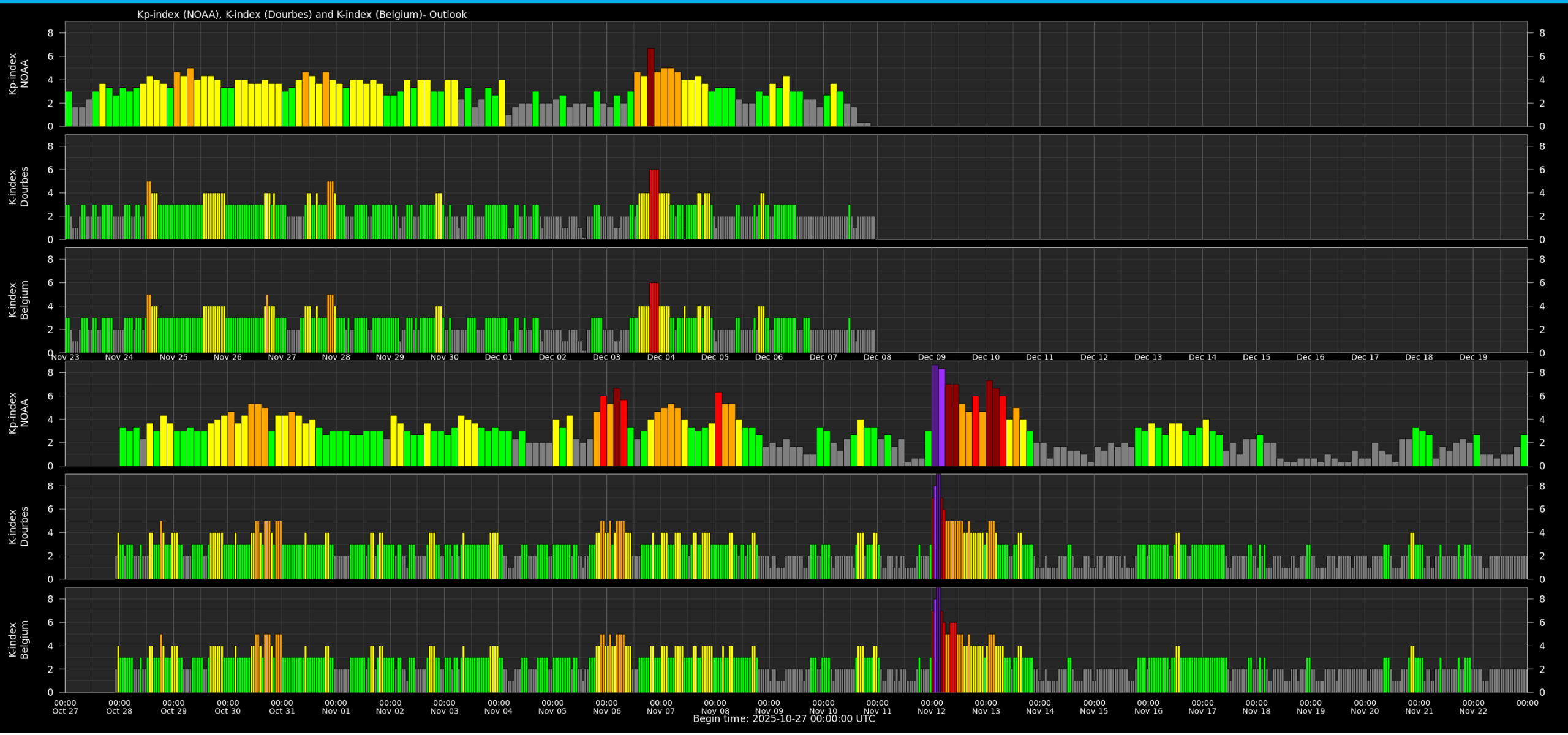


Outlook: Solar F10.7cm radio flux

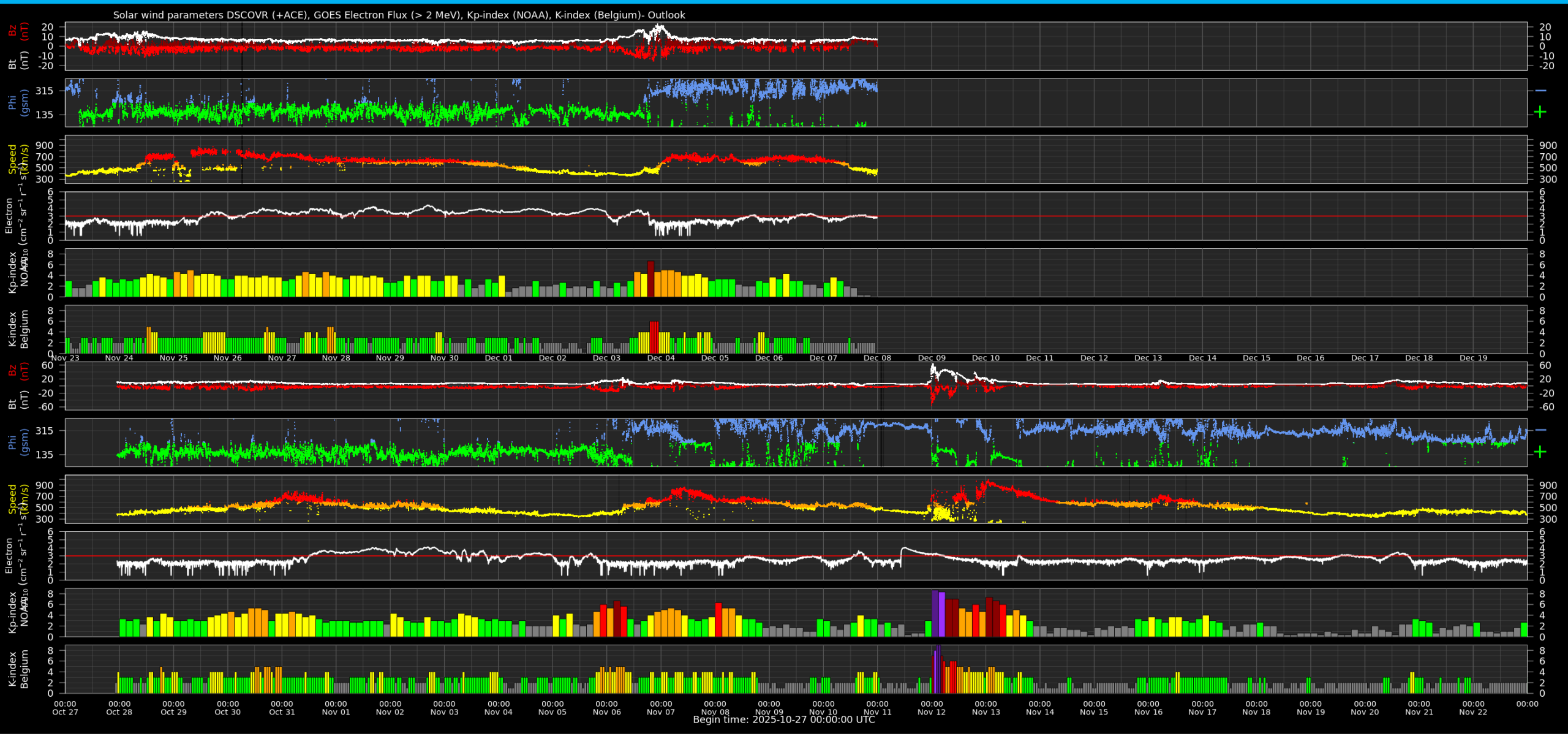


Outlook: Solar wind parameters

Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS

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Pecasus related events

SWF, PSD, Scintillation events

SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at www.sidc.be

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