SIDC Space Weather Briefing

17 November 2025-23 November 2025

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& the SIDC forecaster team

Royal Observatory
of Belgium

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Data analysis Centre
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Summary Report

Solar activity from 2025-11-17 00:00 to 2025-11-23 23:59

Active regions	16 ARs on disk over the week: NOAA AR 4284 and 4290 and 4291 were the most active
Flares	# C-class flare: 53 # M-class flare: 0 # X-class flare: 0
Coronal Holes	1 Neg Pol CH and 2 + Pol CH crossed Central Meridian
CMEs	No Earth Directed CMEs

Proton flux	Nominal levels below 10 pfu threshold
Electron flux	Short crossings of the 1000 pfu threshold

Solar wind and geomagnetic conditions

ICMEs	No ICME arrivals
Solar wind conditions	|B|: 0.39 - 17.89 nT //Bz: -7 nT to 15.56 nT //Speed: 330 – 500 km/s
Geomagnetic conditions	max KBel: 4.0, max Kp(NOAA): 4.0, Active conditions

All Quiet Alert: Not all quiet

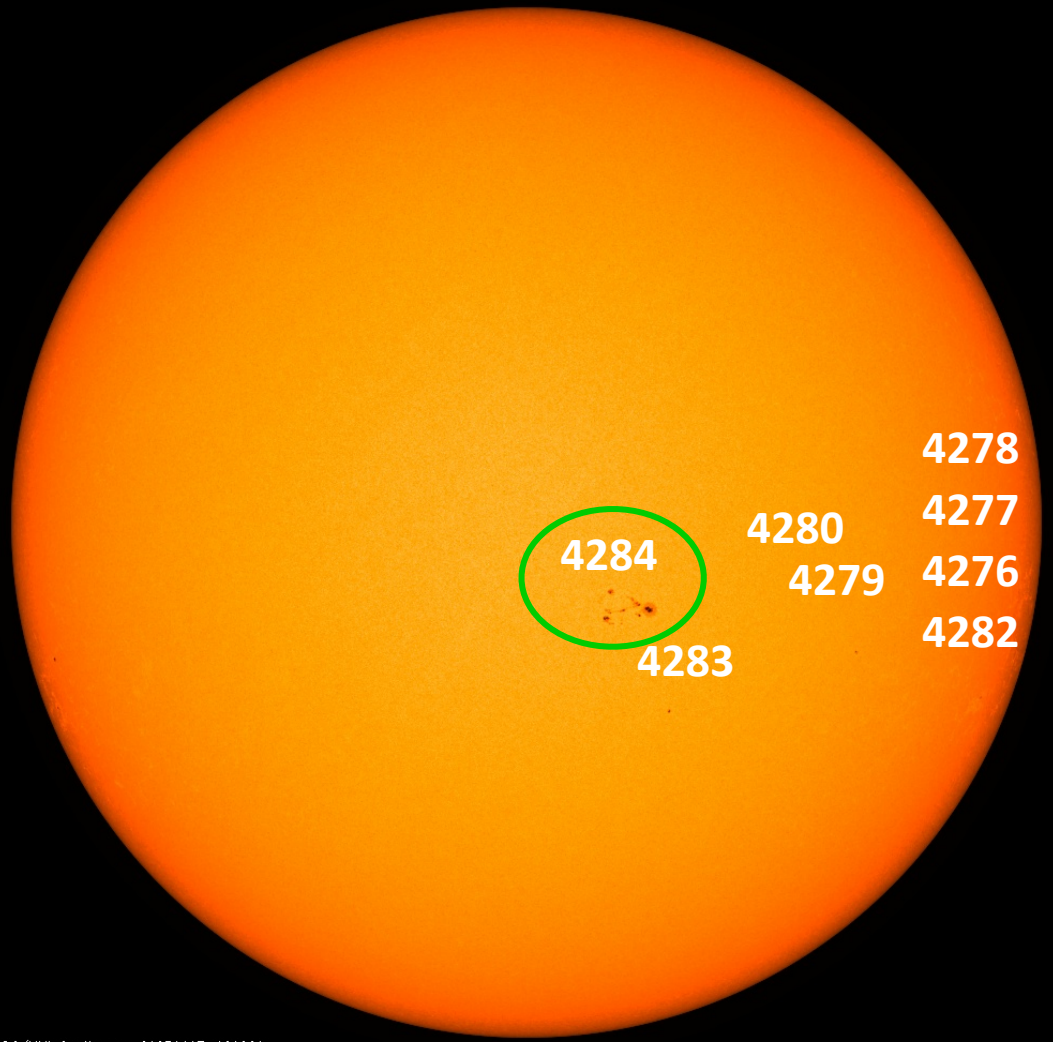
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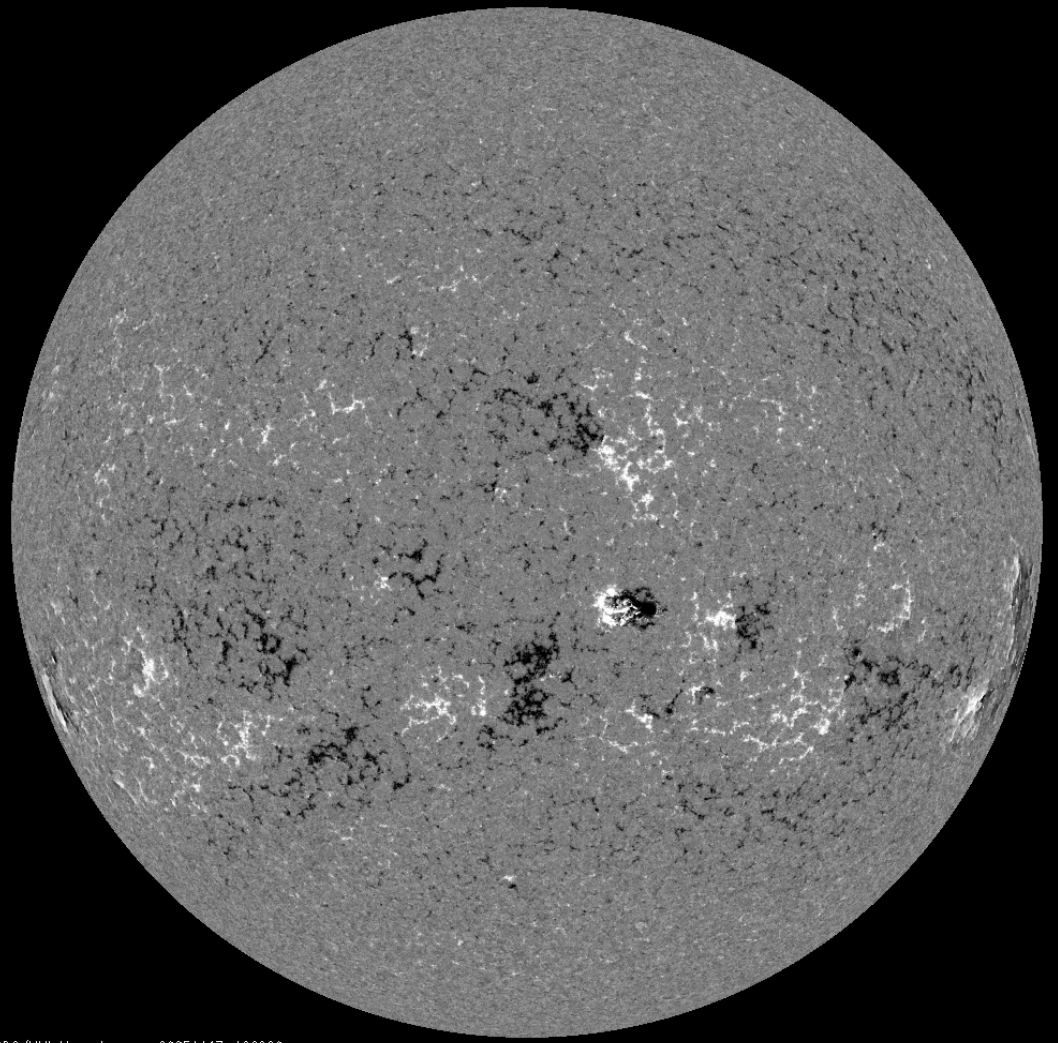
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Solar active regions

SDO/HMI White Light 2025-11-17

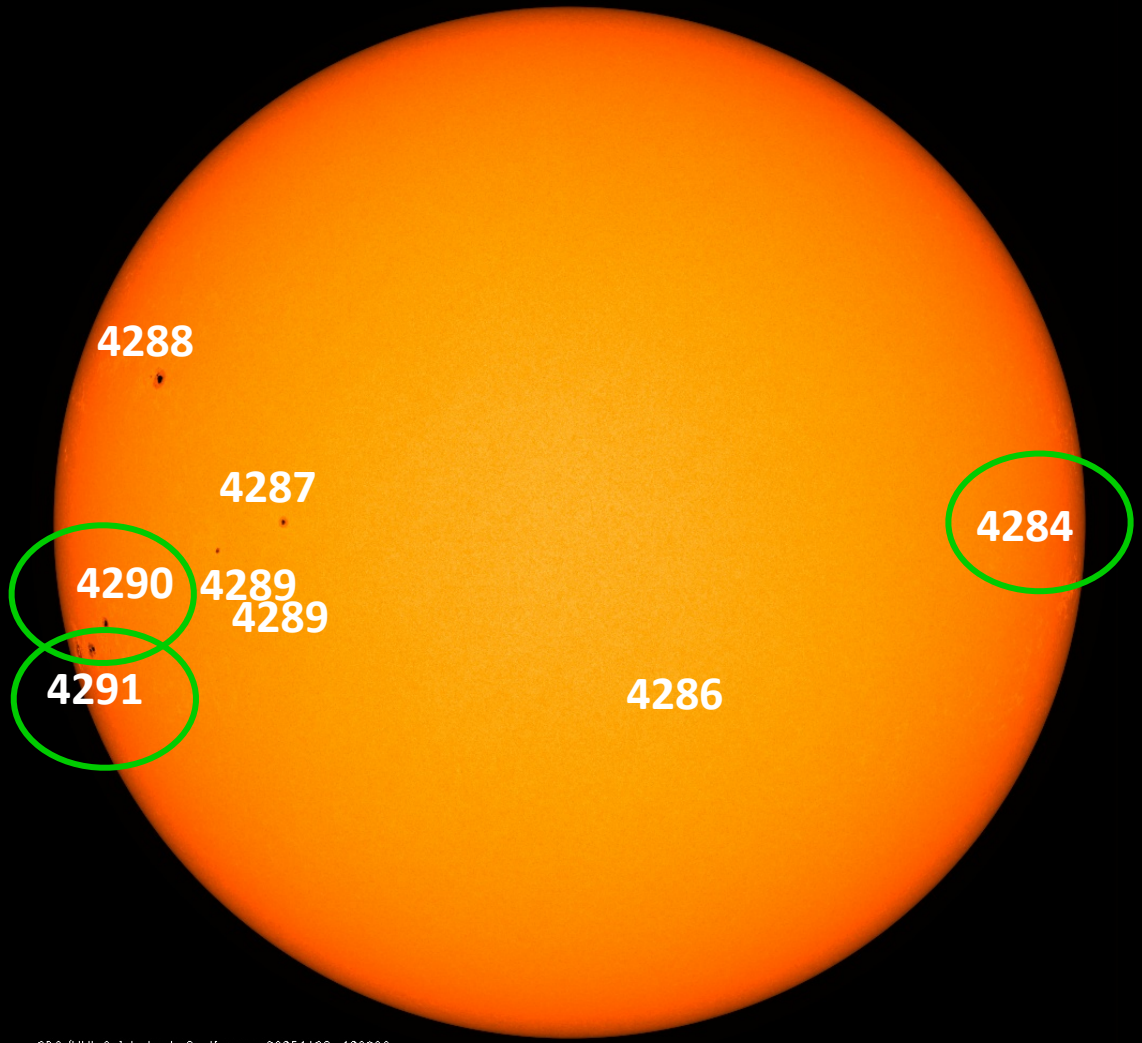


SDO/HMI Magnetogram 2025-11-17

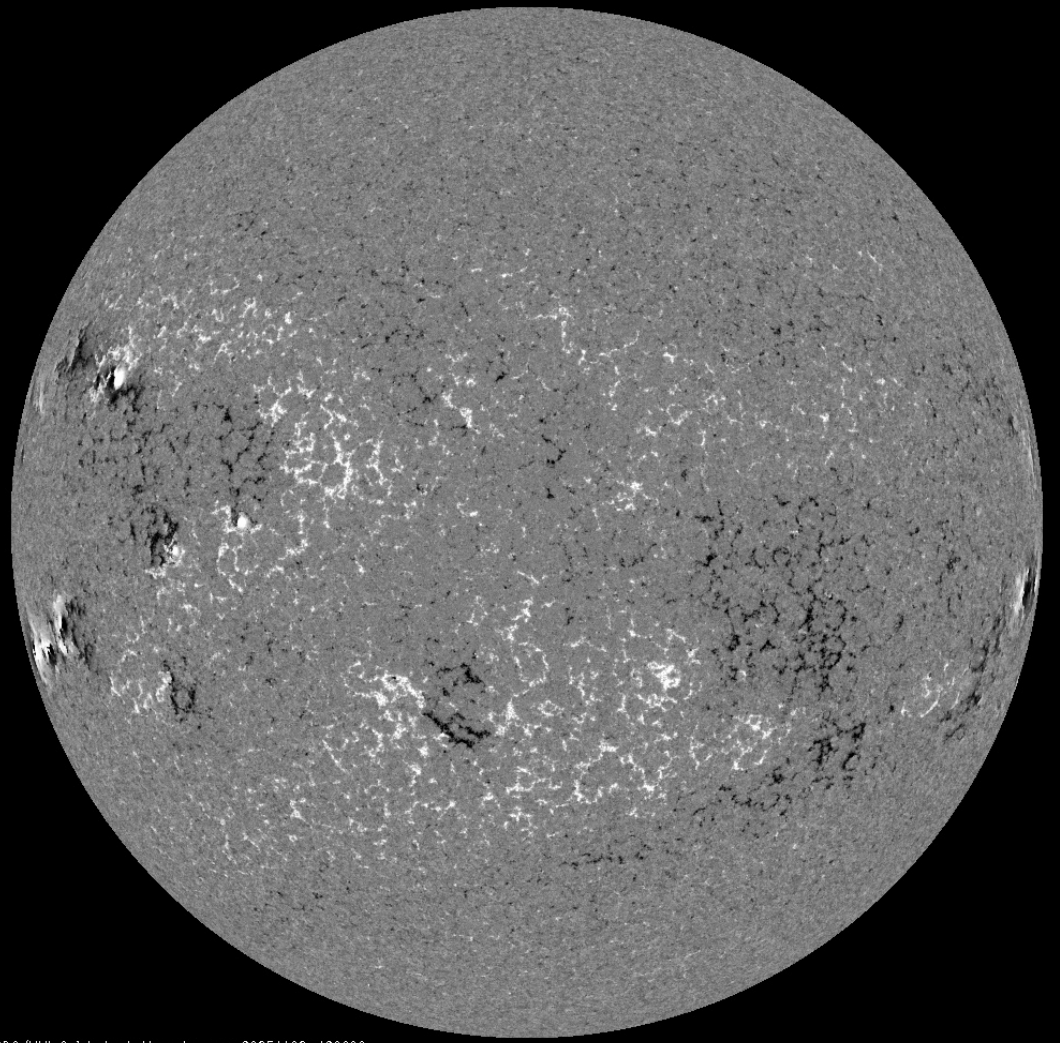


Solar active regions

SDO/HMI White Light 2025-11-22

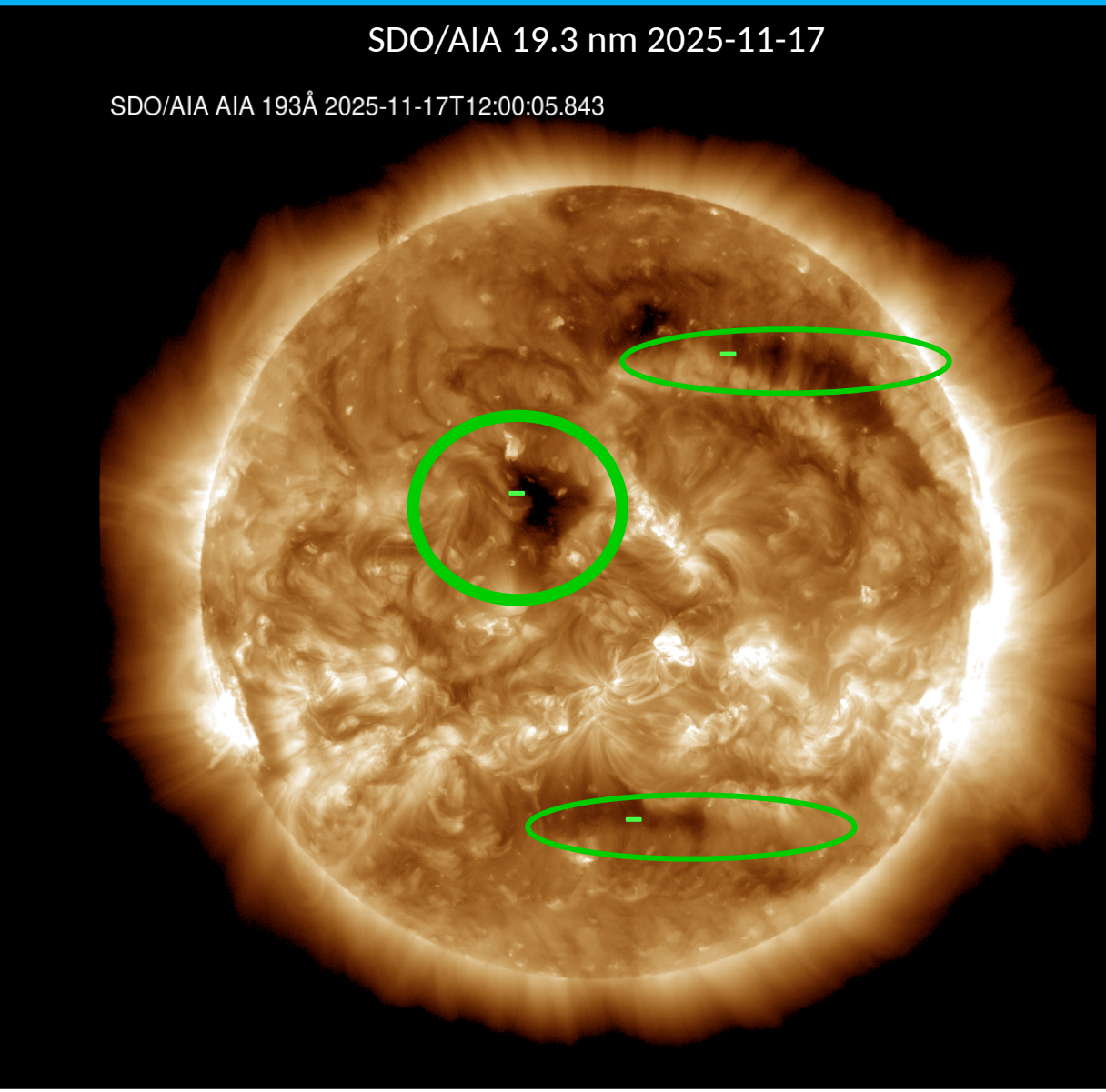


SDO/HMI Magnetogram 2025-11-22

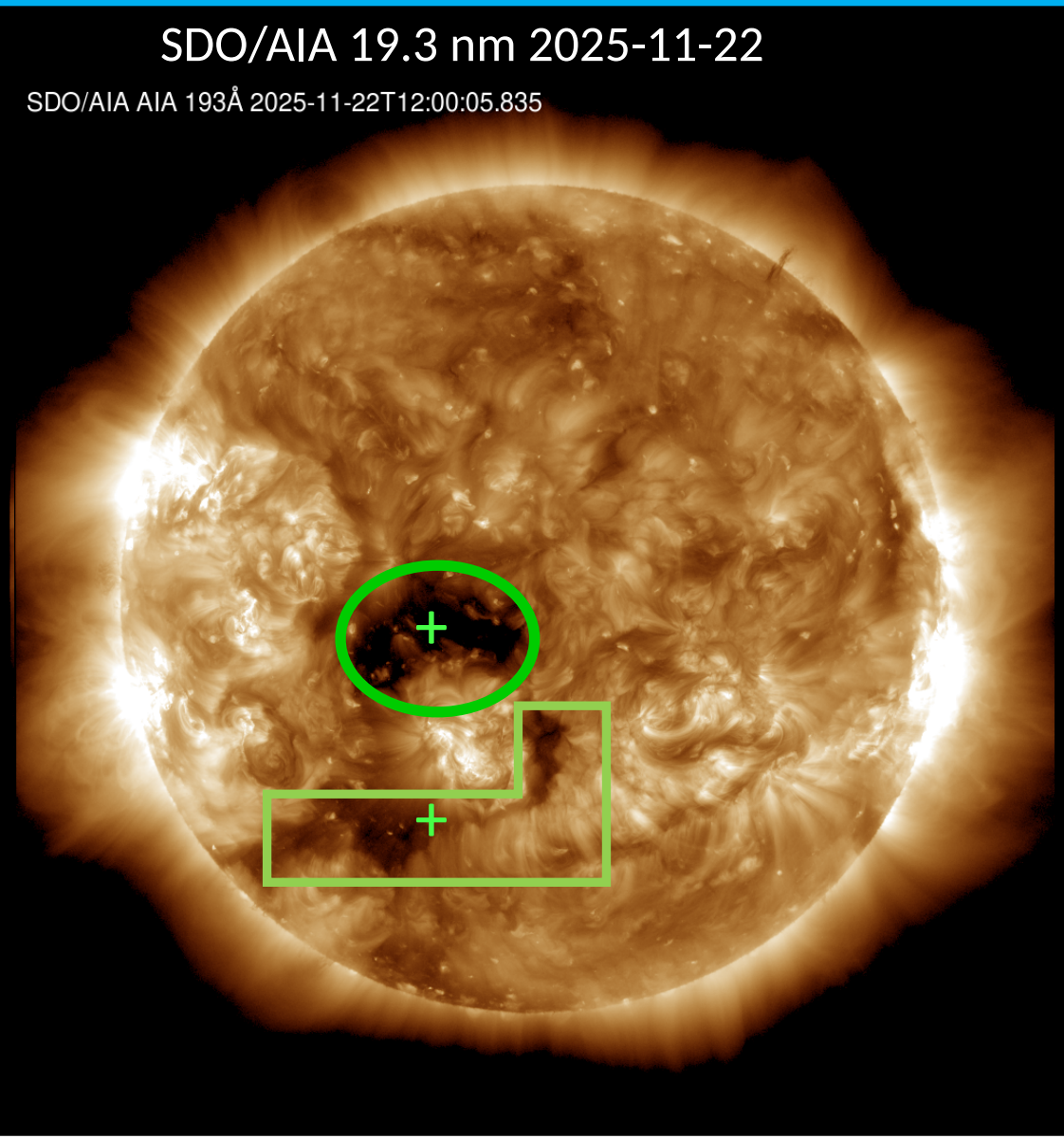


Coronal holes

SDO/AIA 19.3 nm 2025-11-17

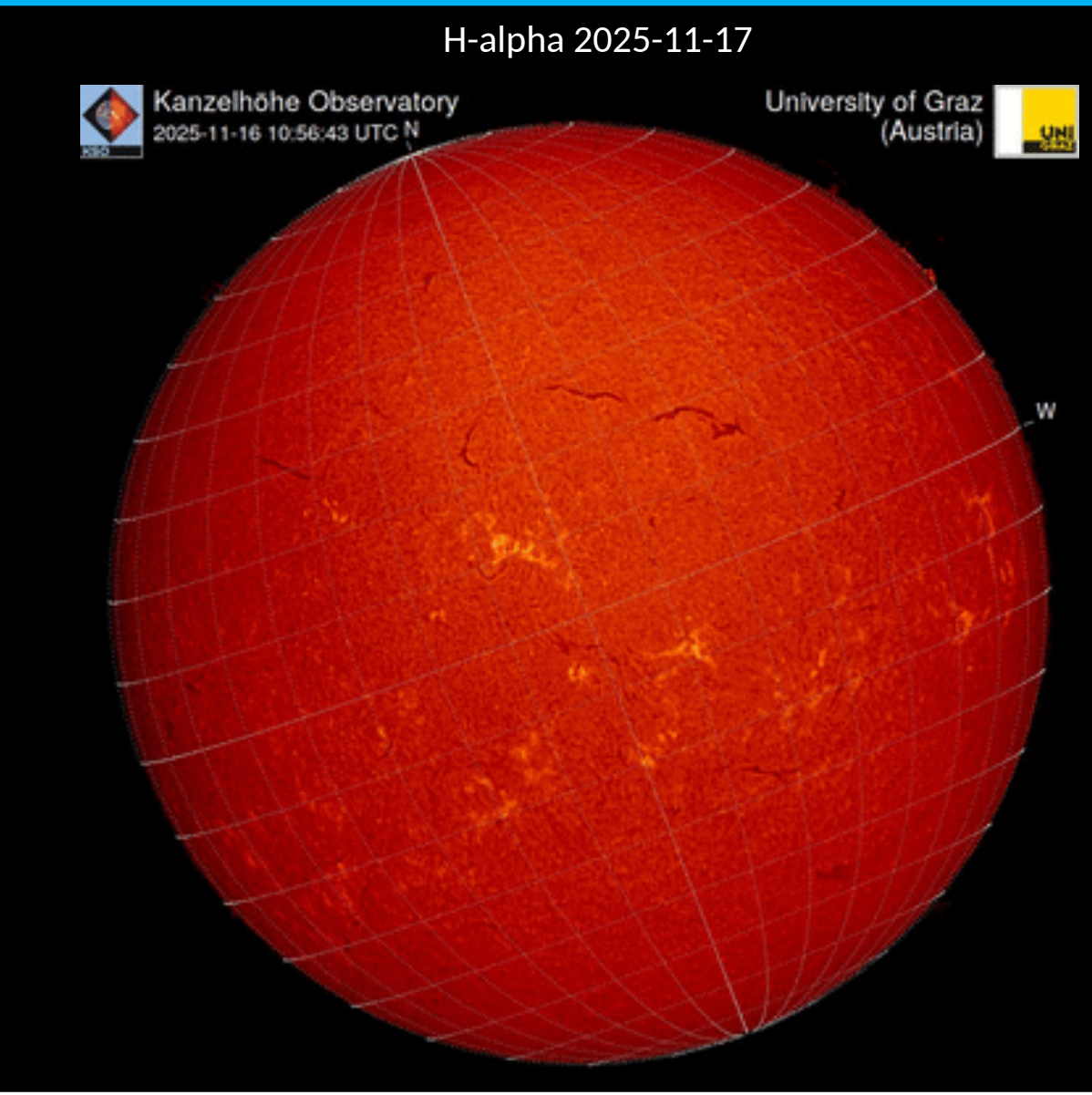


SDO/AIA 19.3 nm 2025-11-22

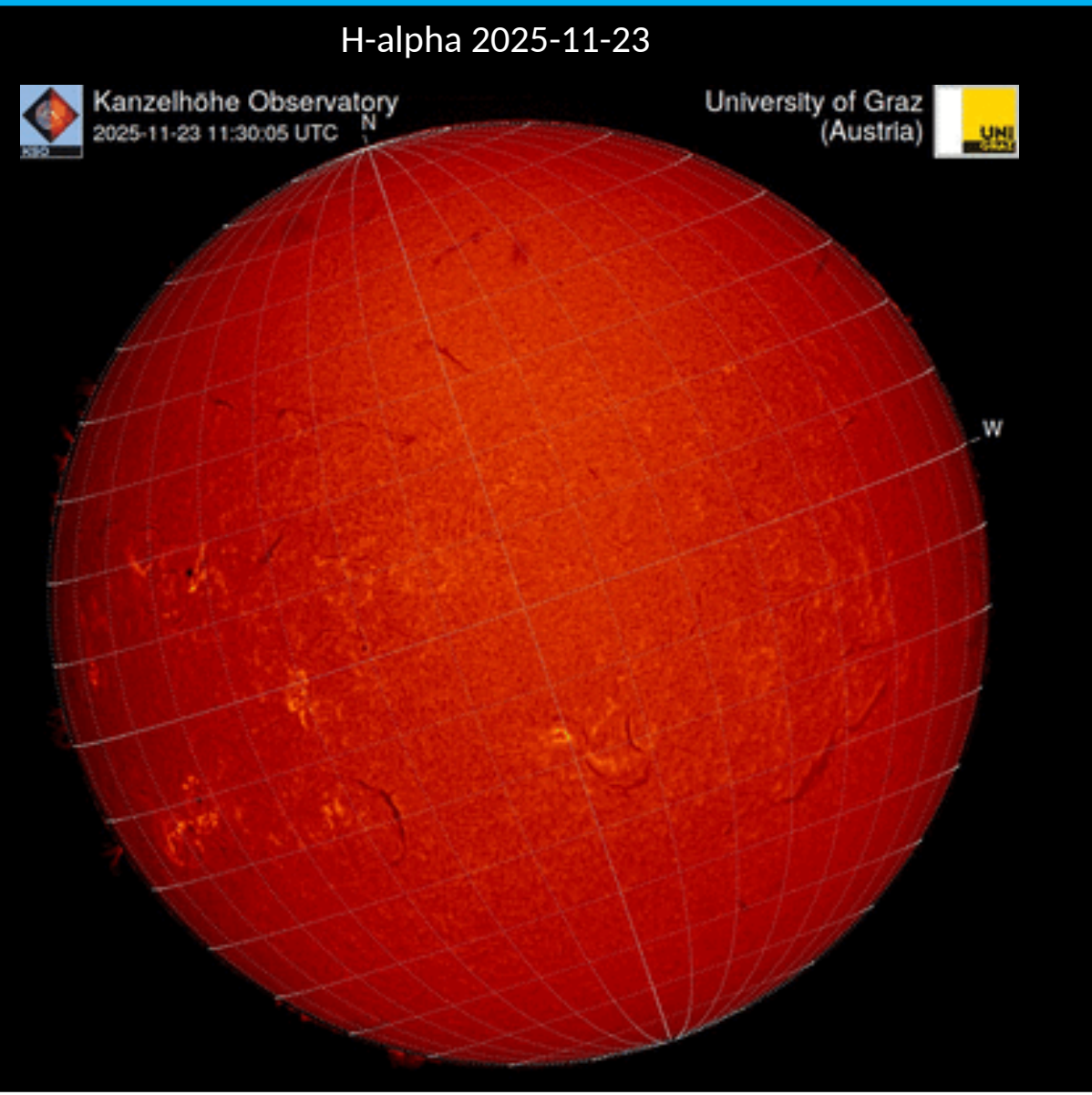


Filaments & Filament eruptions

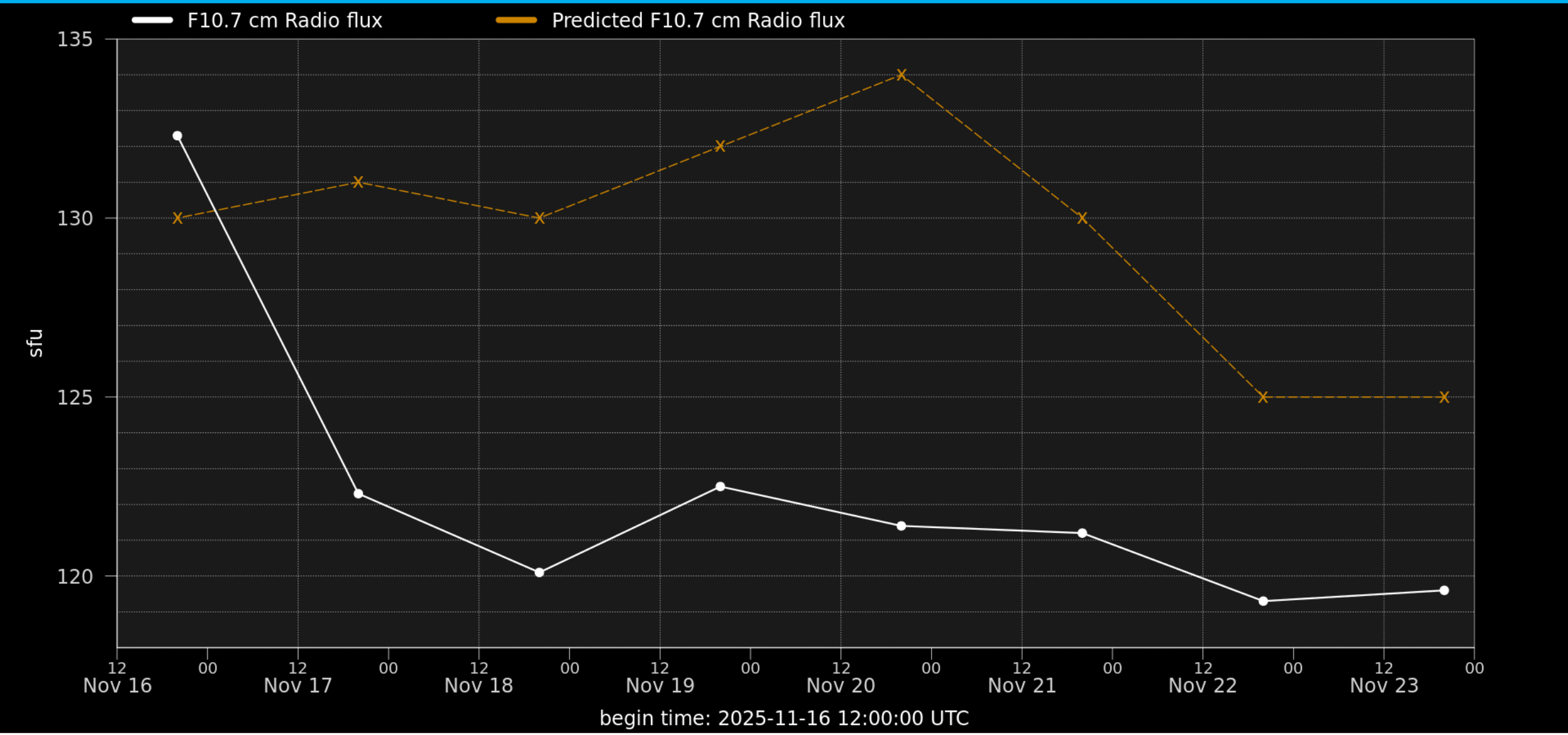
H-alpha 2025-11-17



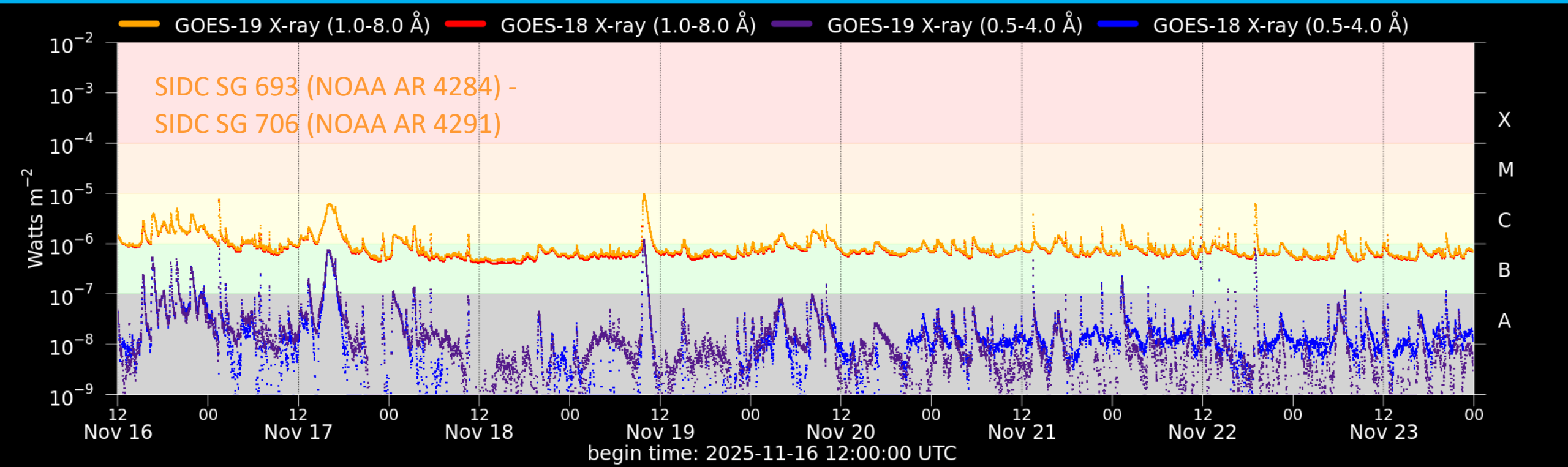
H-alpha 2025-11-23



Solar F10.7cm radio flux



Flaring activity

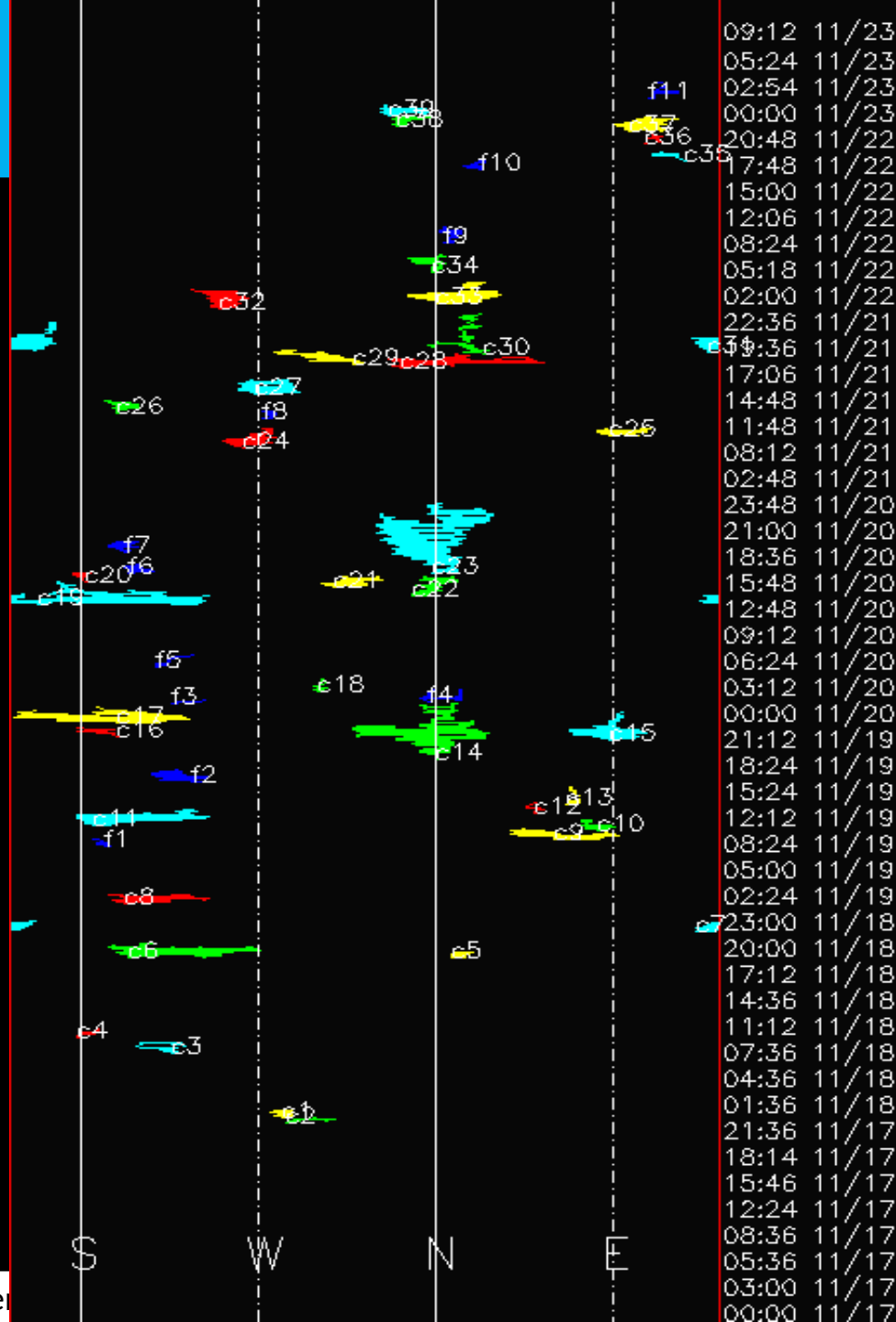


Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2025-11-16	2025-11-17	2025-11-18	2025-11-19	2025-11-20	2025-11-21	2025-11-22	2025-11-23
Probability (%)	76|30|05	75|22|01	75|22|01	78|24|01	80|25|01	51|08|01	64|13|01	81|25|01
Observed (#)	13|00|00	08|00|00	01|00|00	03|00|00	06|00|00	09|00|00	10|00|00	03|00|00

Coronal Mass Ejections

No Earth Directed CMEs during this week



Solar Wind and

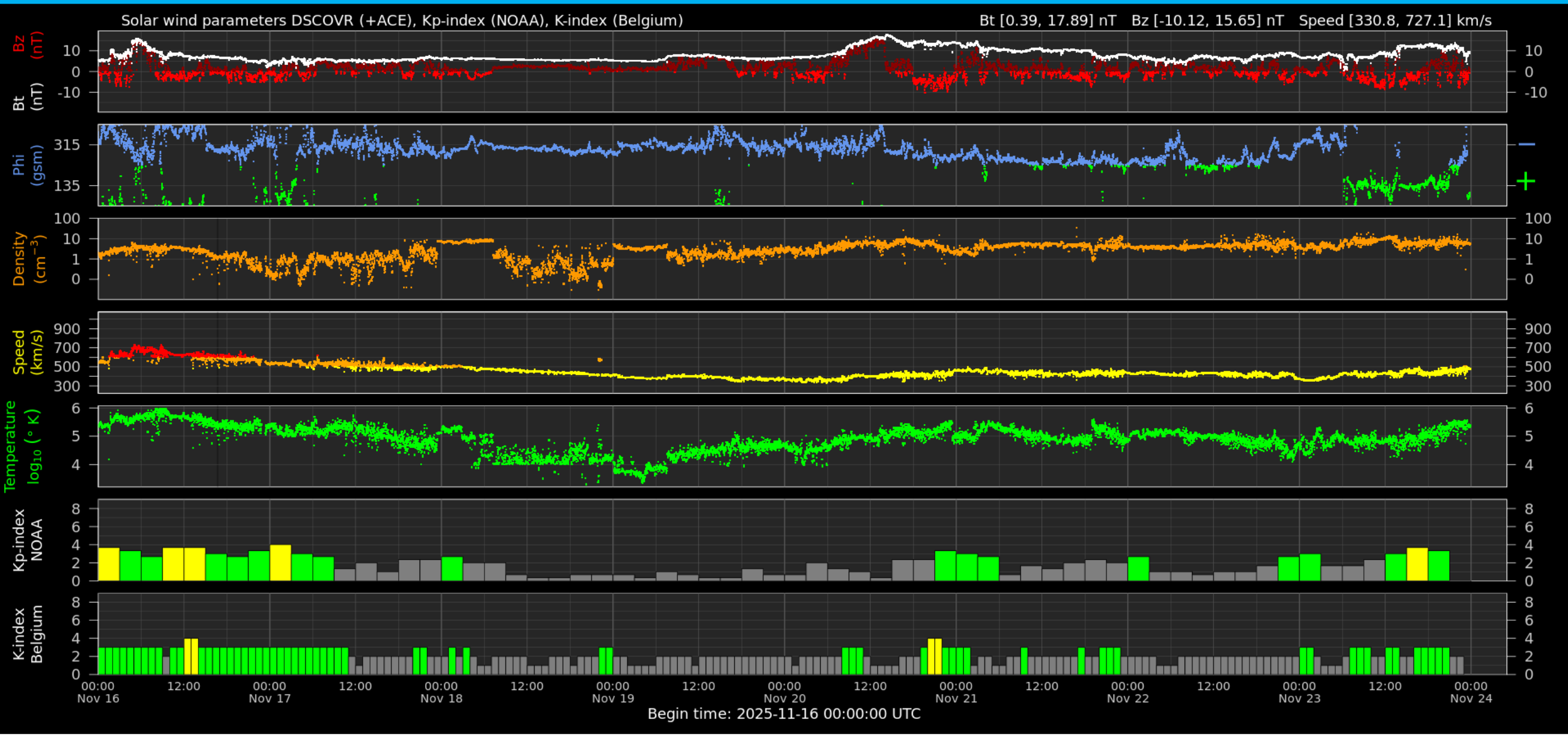
Geomagnetic Activity



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Solar wind parameters & K-indices



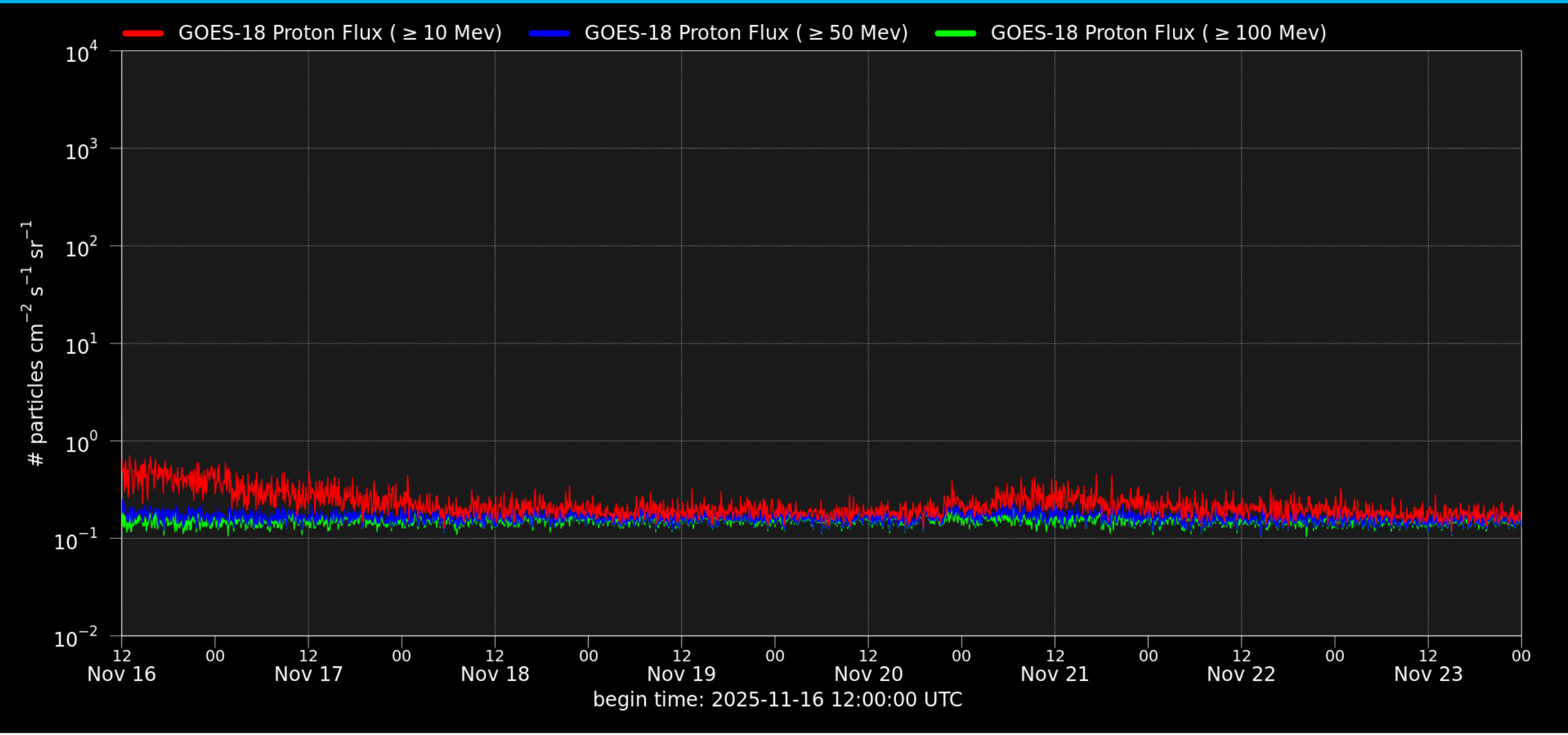
Energetic Particles



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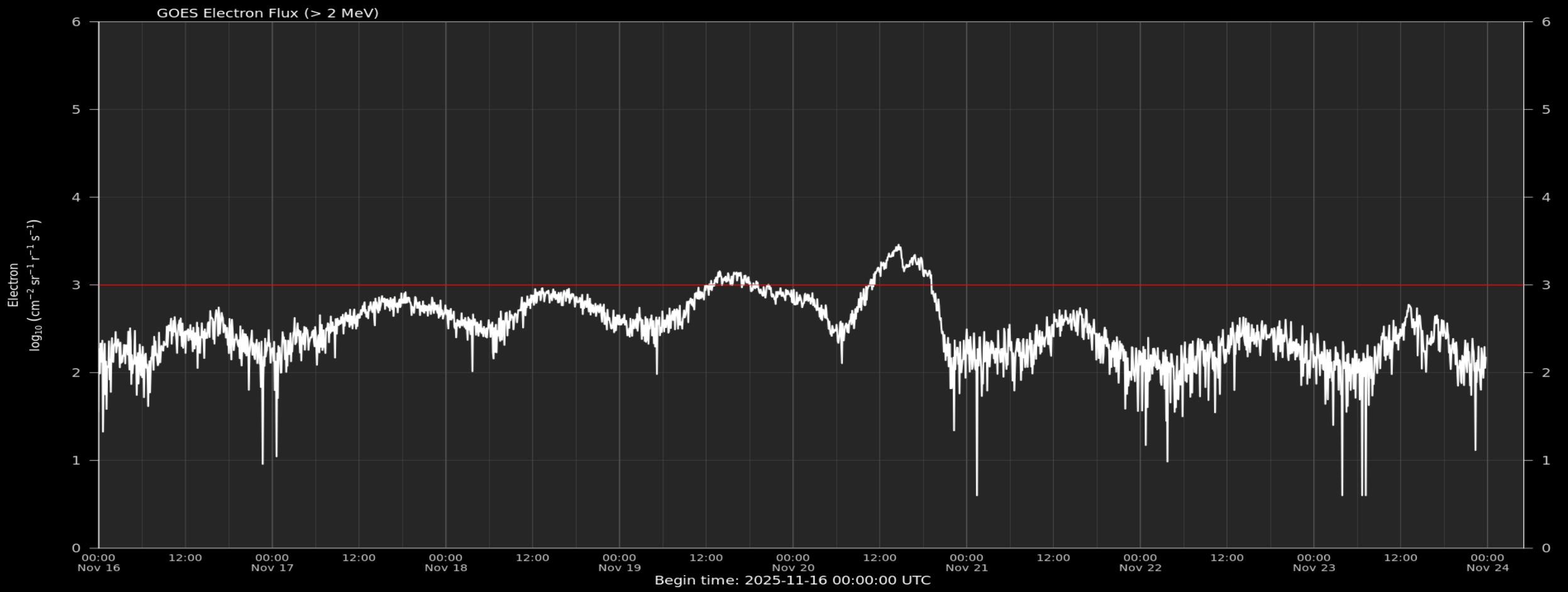
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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

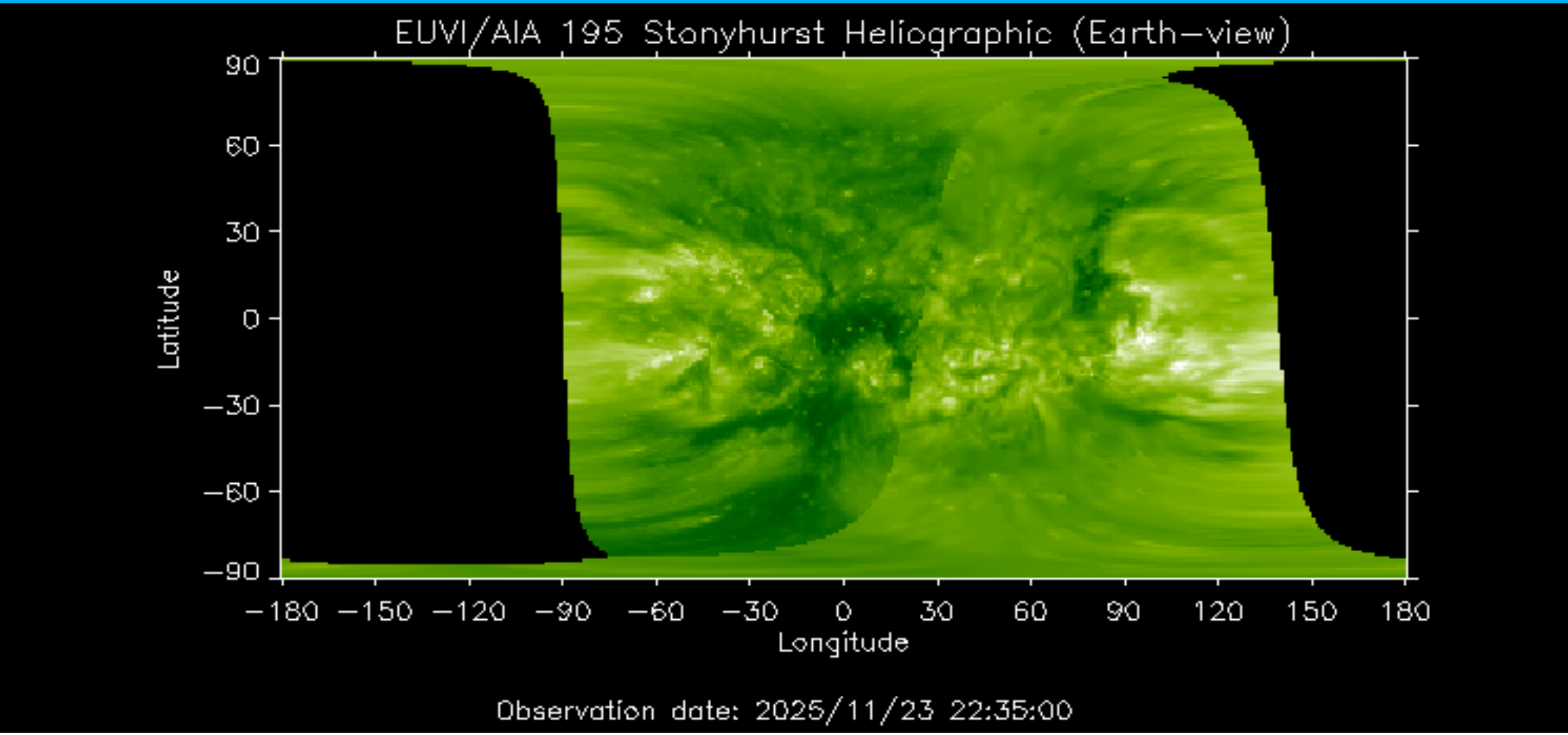


Outlook

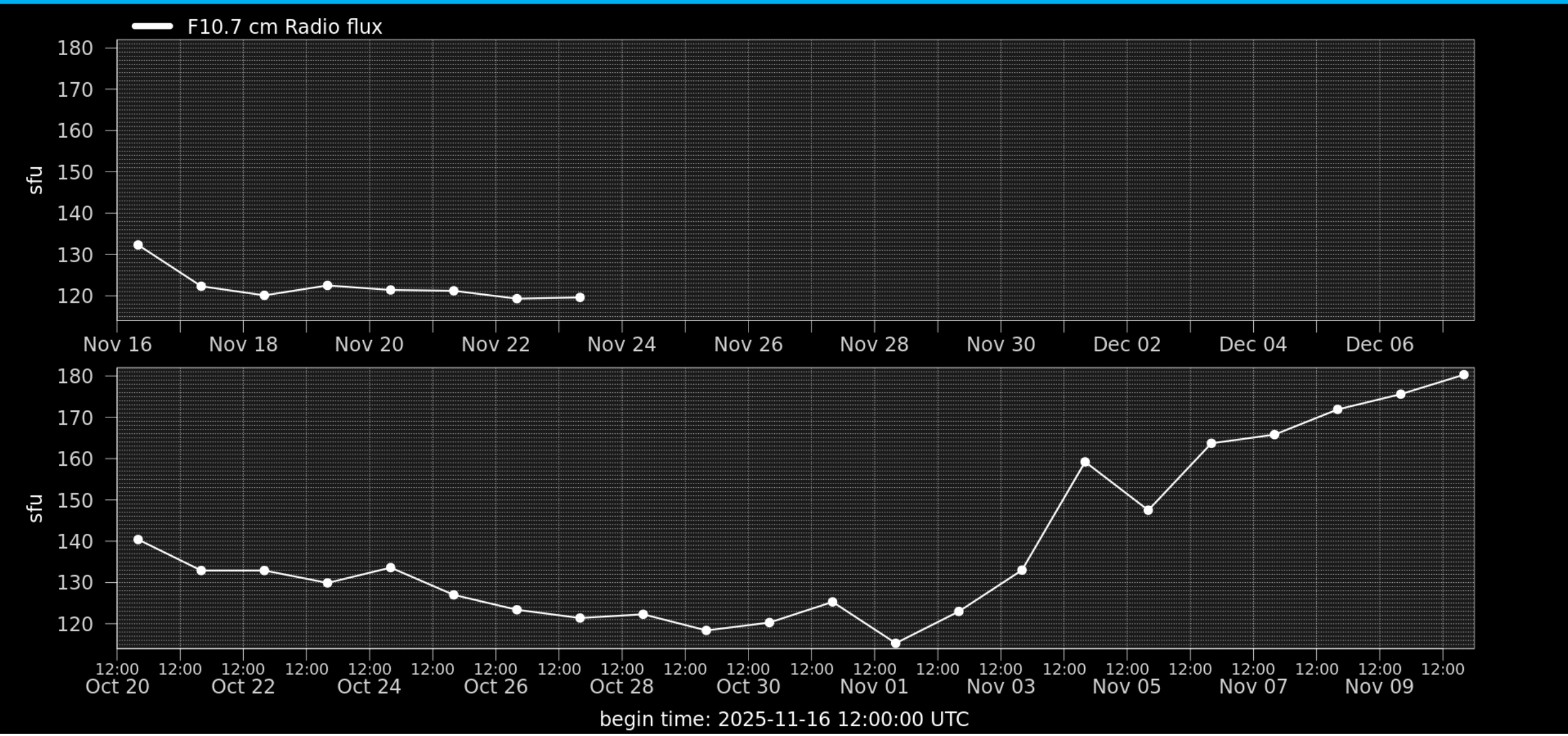
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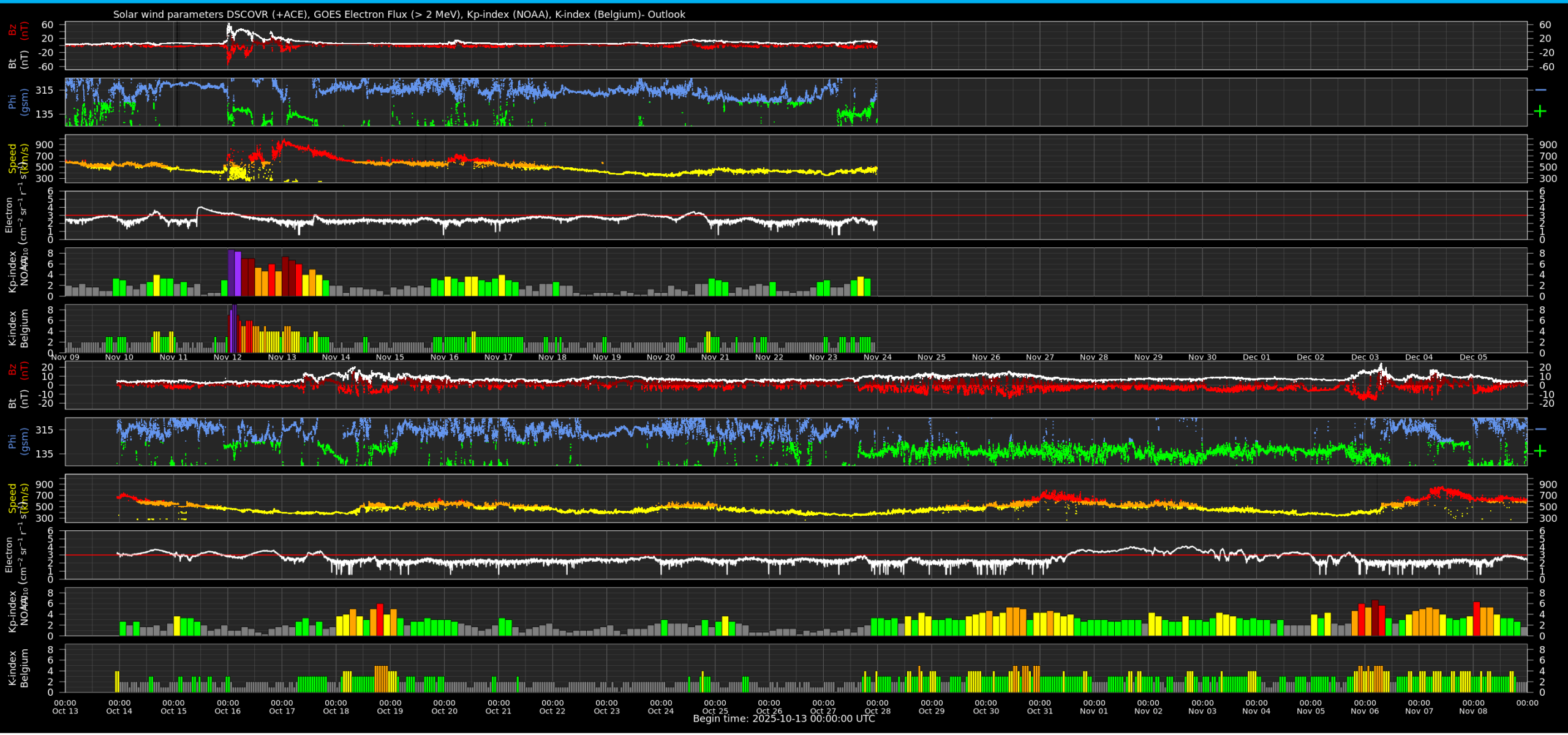
Outlook: Solar activity



Outlook: Solar F10.7cm radio flux



Outlook: Electron Flux at GEO Outlook



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Pecasus related events

Amplitude and Phase Scintillations GNSS advisories issued.

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