SIDC Space Weather Briefing

24 November 2025-30 November 2025

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Daria Shukhobodskaia &
the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2025-11-24 00:00 to 2025-11-30 23:59

Active regions	SIDC Sunspot Group 709 (NOAA Active Region [AR] 4294), N20E80
Flares	# C-class flare: 35 # M-class flare: 6 # X-class flare: 0
Coronal Holes	SIDC CH 139 (mid latitude, positive polarity) 28 Nov
CMEs	No (partial) halo CMEs, no earth-directed

Proton flux	Nominal levels
Electron flux	Above 1000 pfu threshold

Solar wind and geomagnetic conditions

ICMEs	None
Solar wind conditions	|B|: 0.54 - 15.41 nT //Bz: -11.27 nT to 10.59 nT //Speed: 260.2 - 873.8km/s
Geomagnetic conditions	max KBel: 5.0, max Kp(NOAA): 5.0, Minor Storm conditions

All Quiet Alert: Not quiet

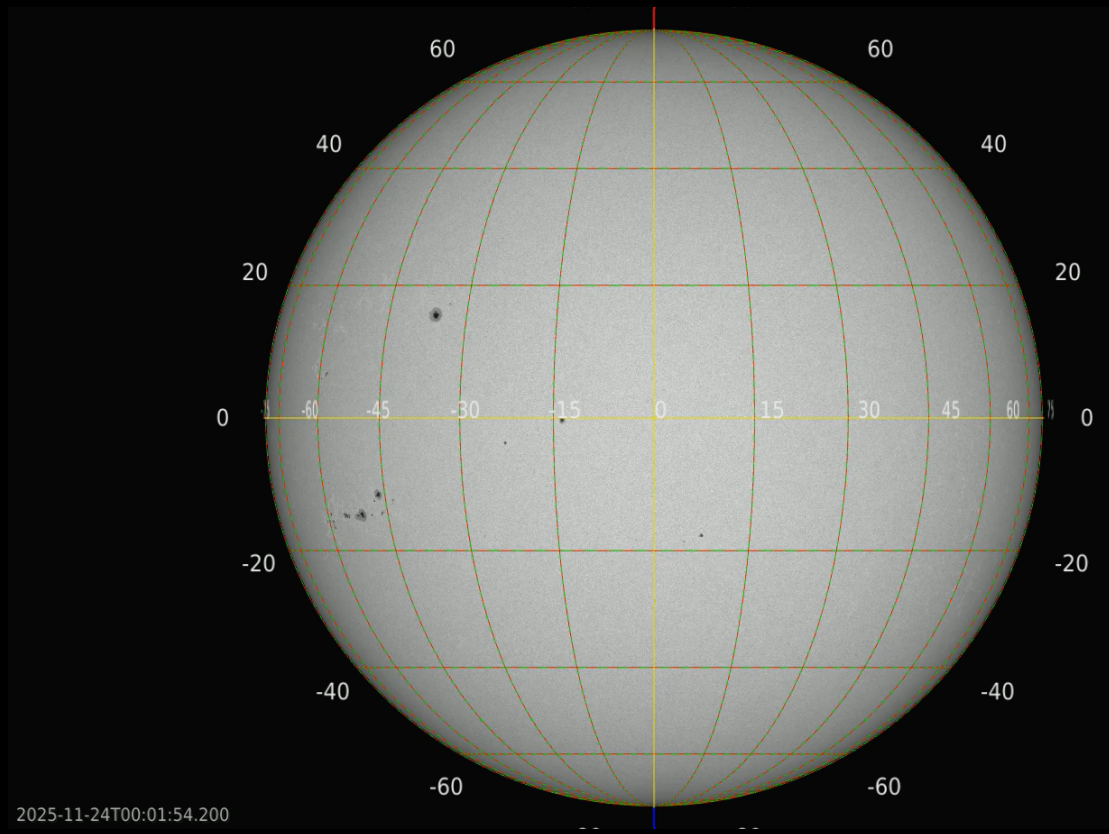
Solar Activity

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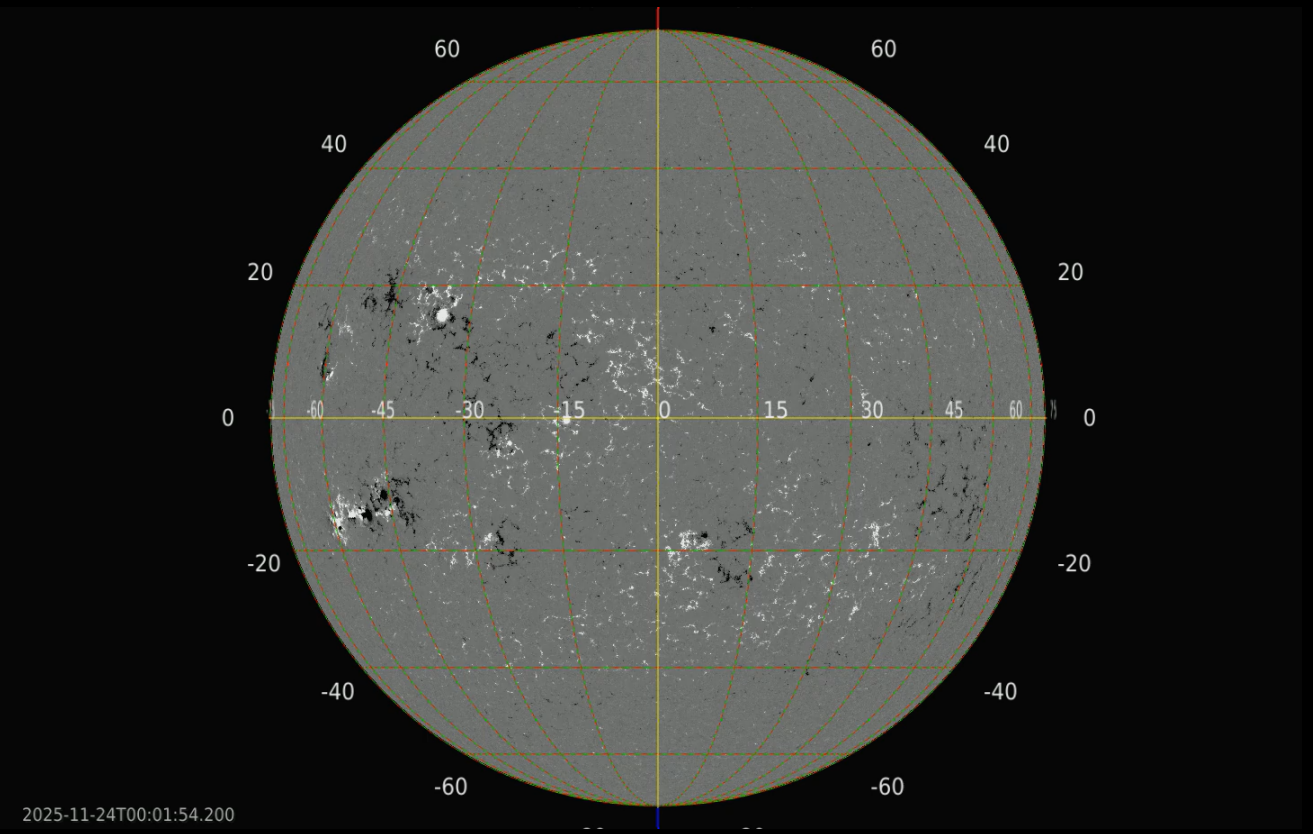
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Solar active regions

SDO/HMI White Light 24-30 Nov 2025

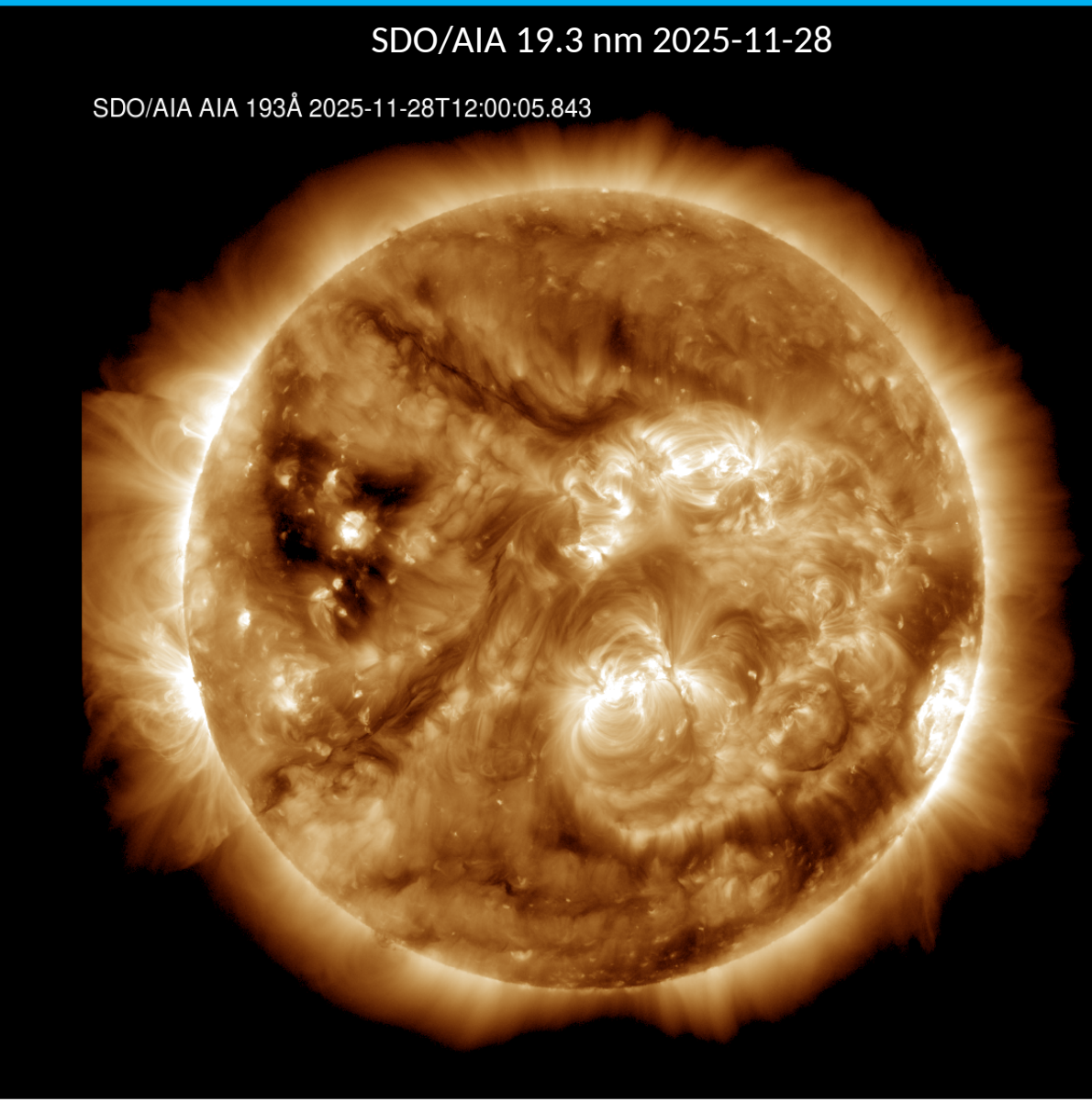


SDO/HMI Magnetogram 24-30 Nov 2025

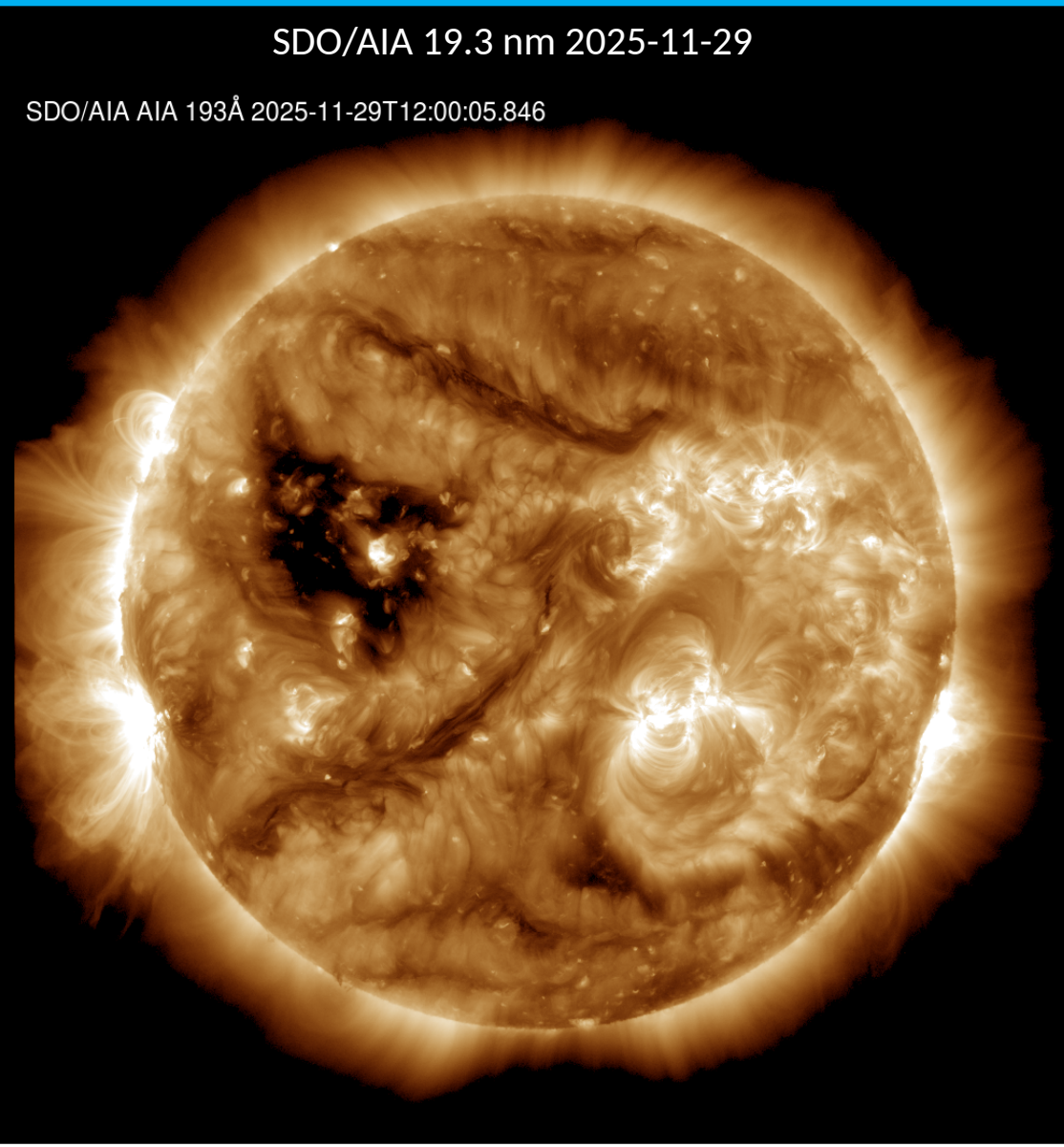


Coronal holes

SDO/AIA 19.3 nm 2025-11-28

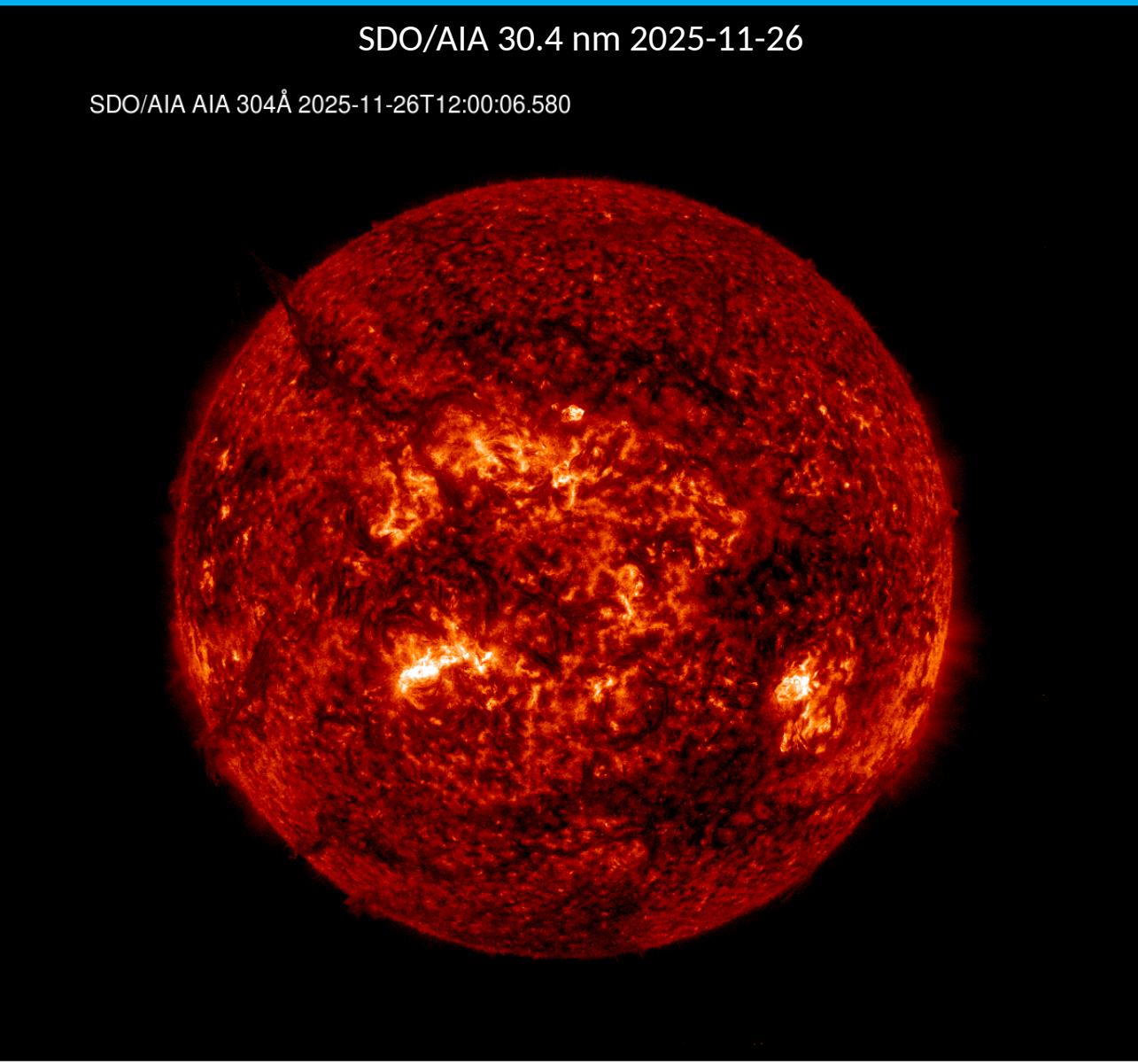


SDO/AIA 19.3 nm 2025-11-29

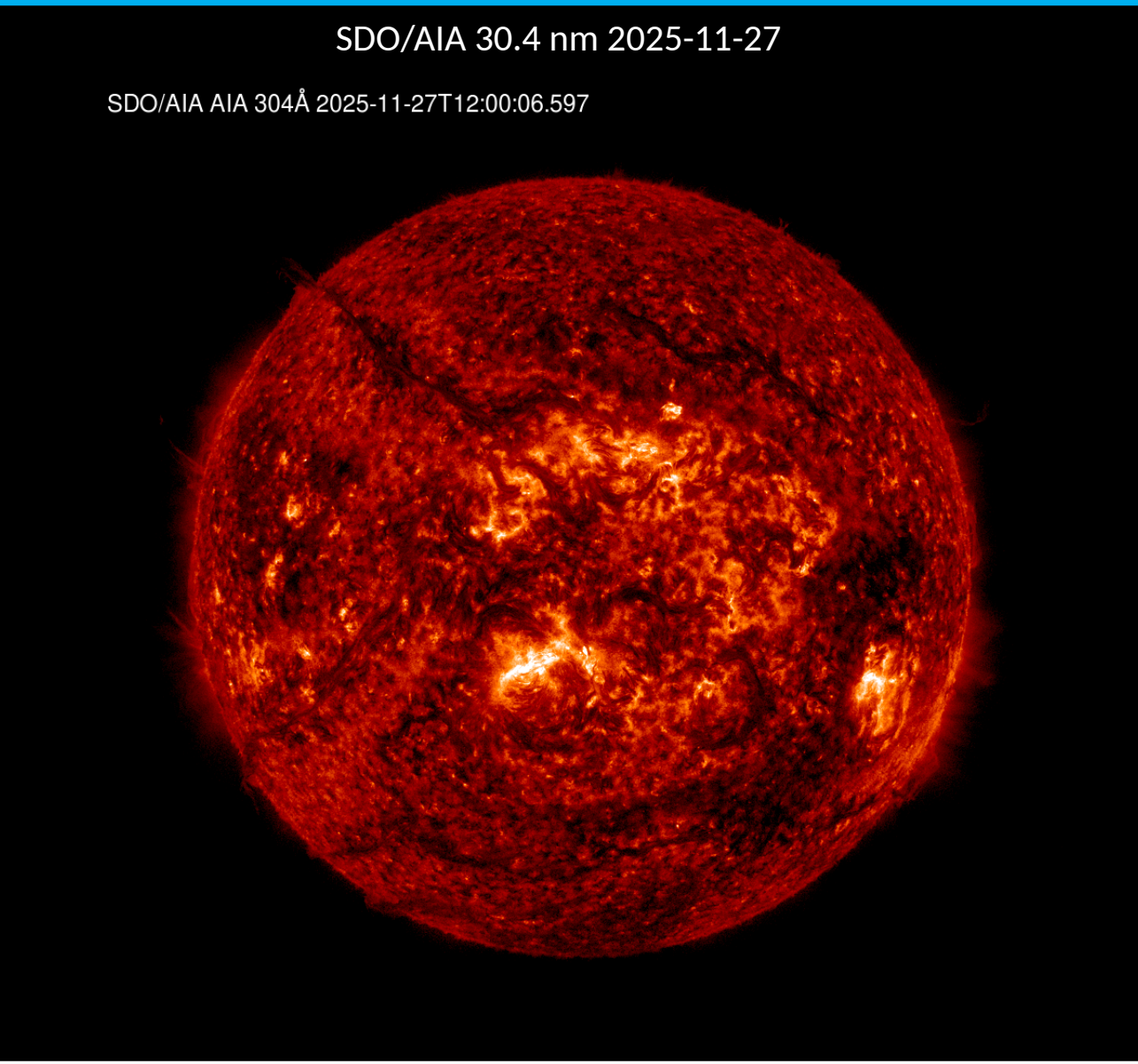


Filaments

SDO/AIA 30.4 nm 2025-11-26

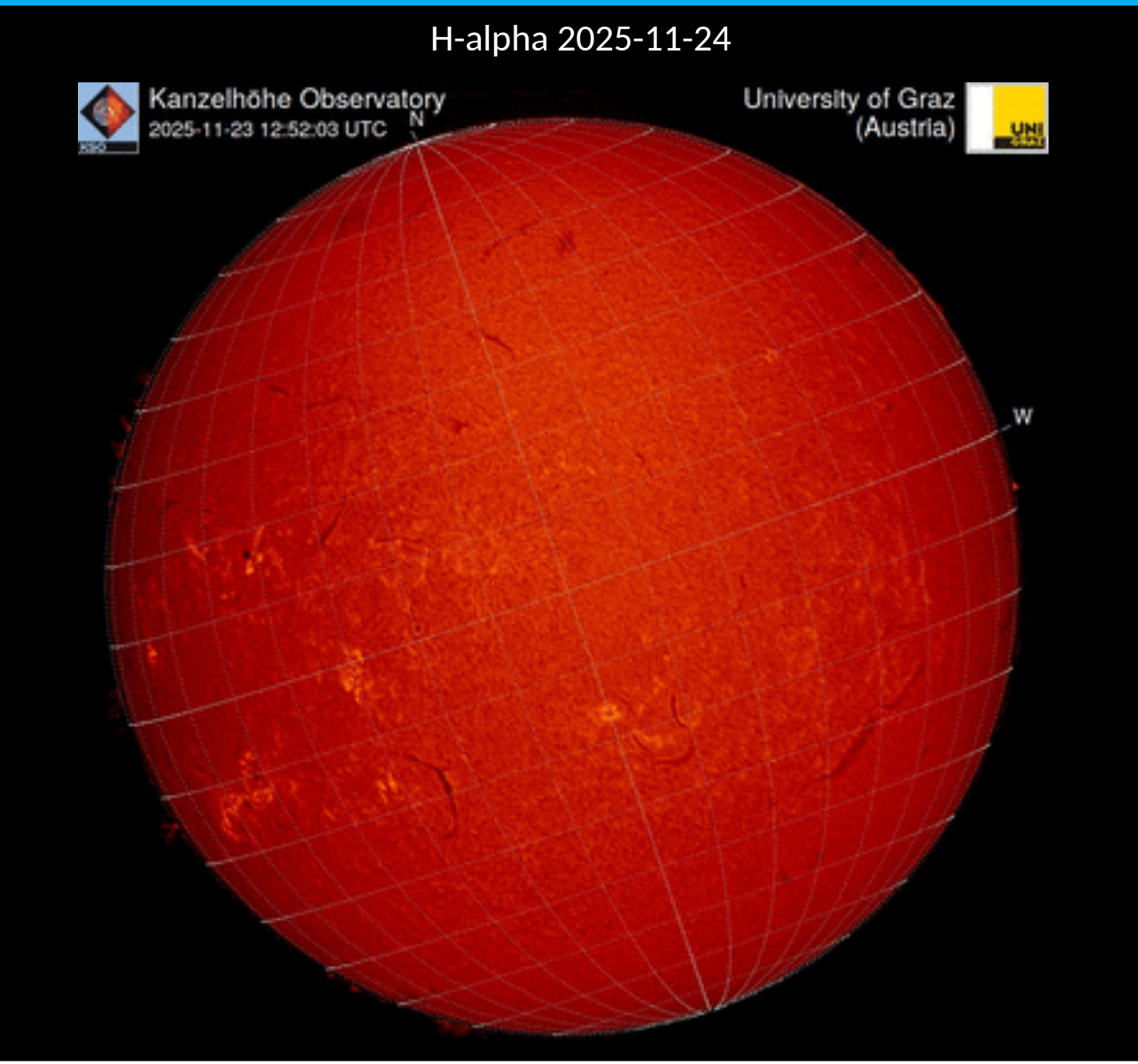


SDO/AIA 30.4 nm 2025-11-27

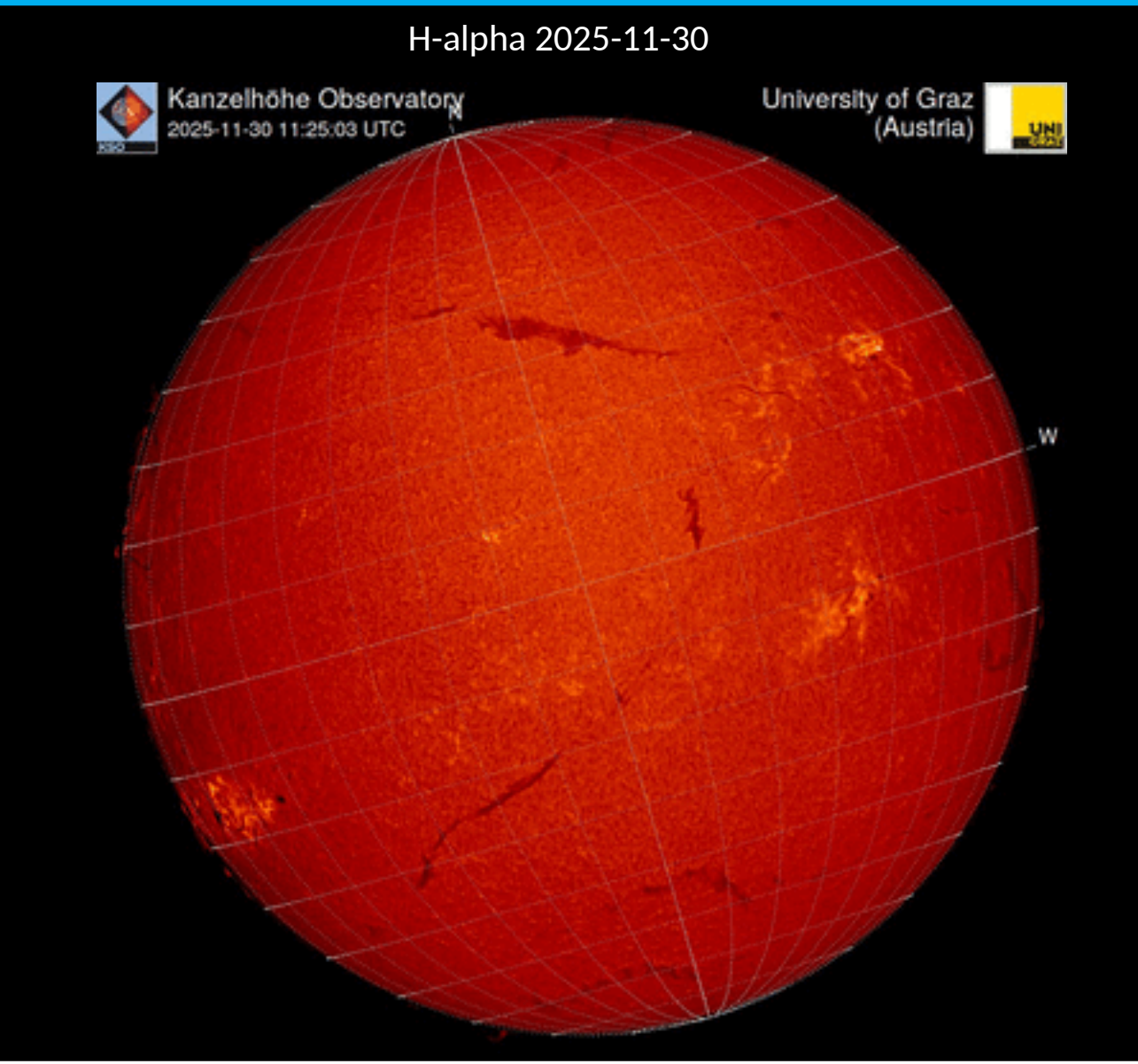


Filaments & Filament eruptions

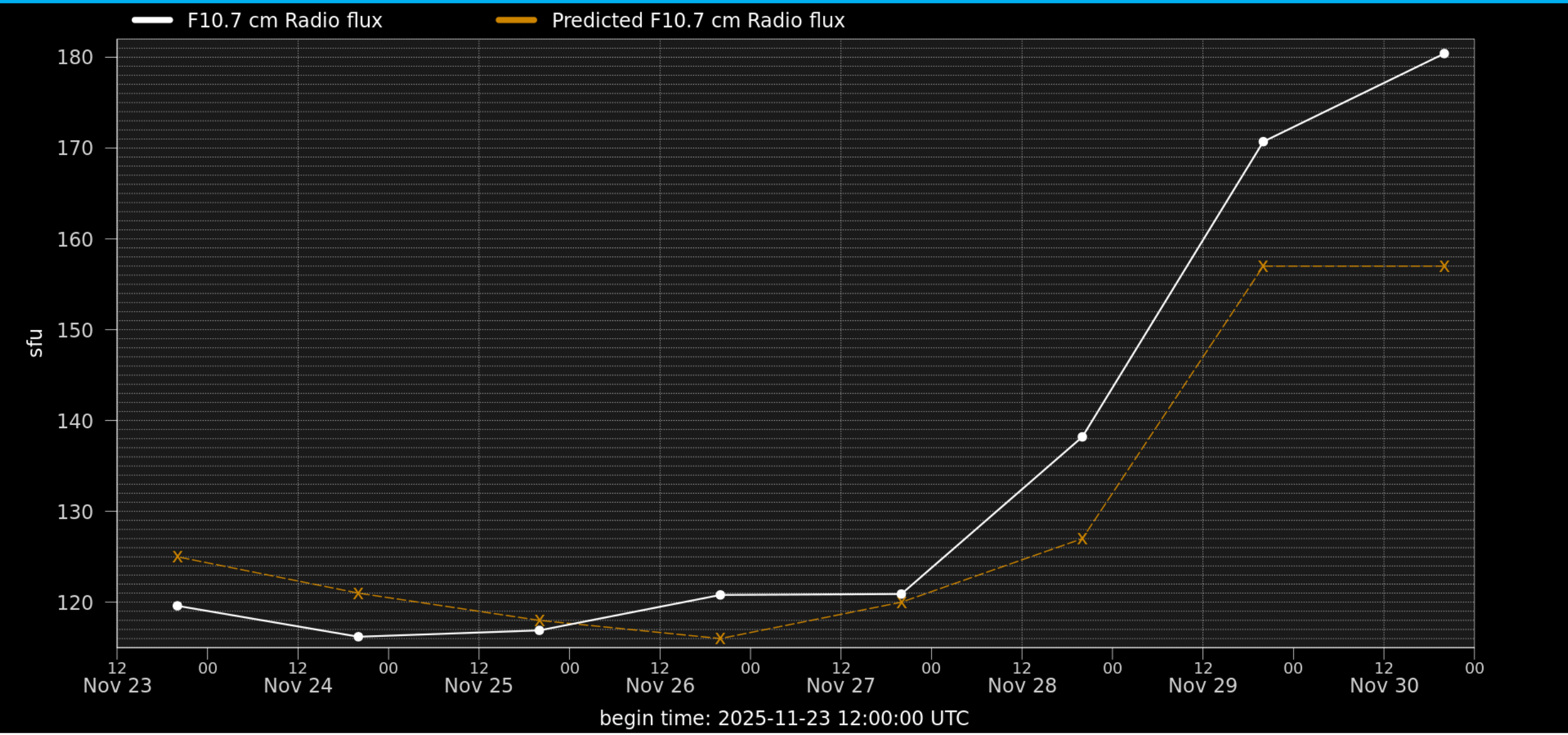
H-alpha 2025-11-24



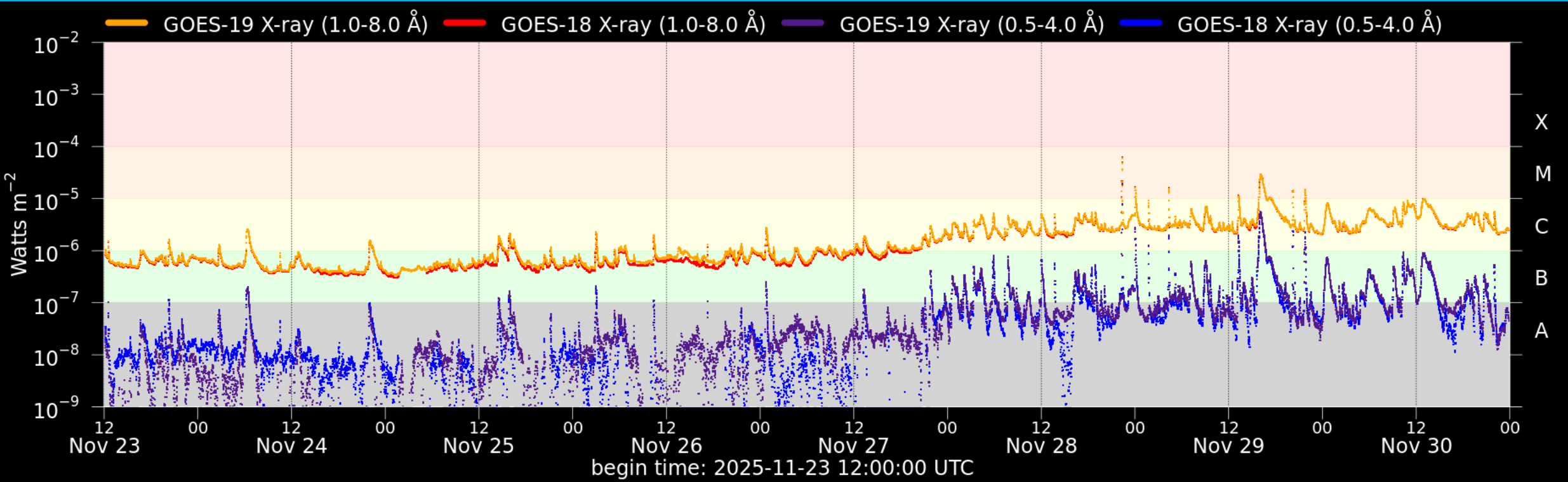
H-alpha 2025-11-30



Solar F10.7cm radio flux



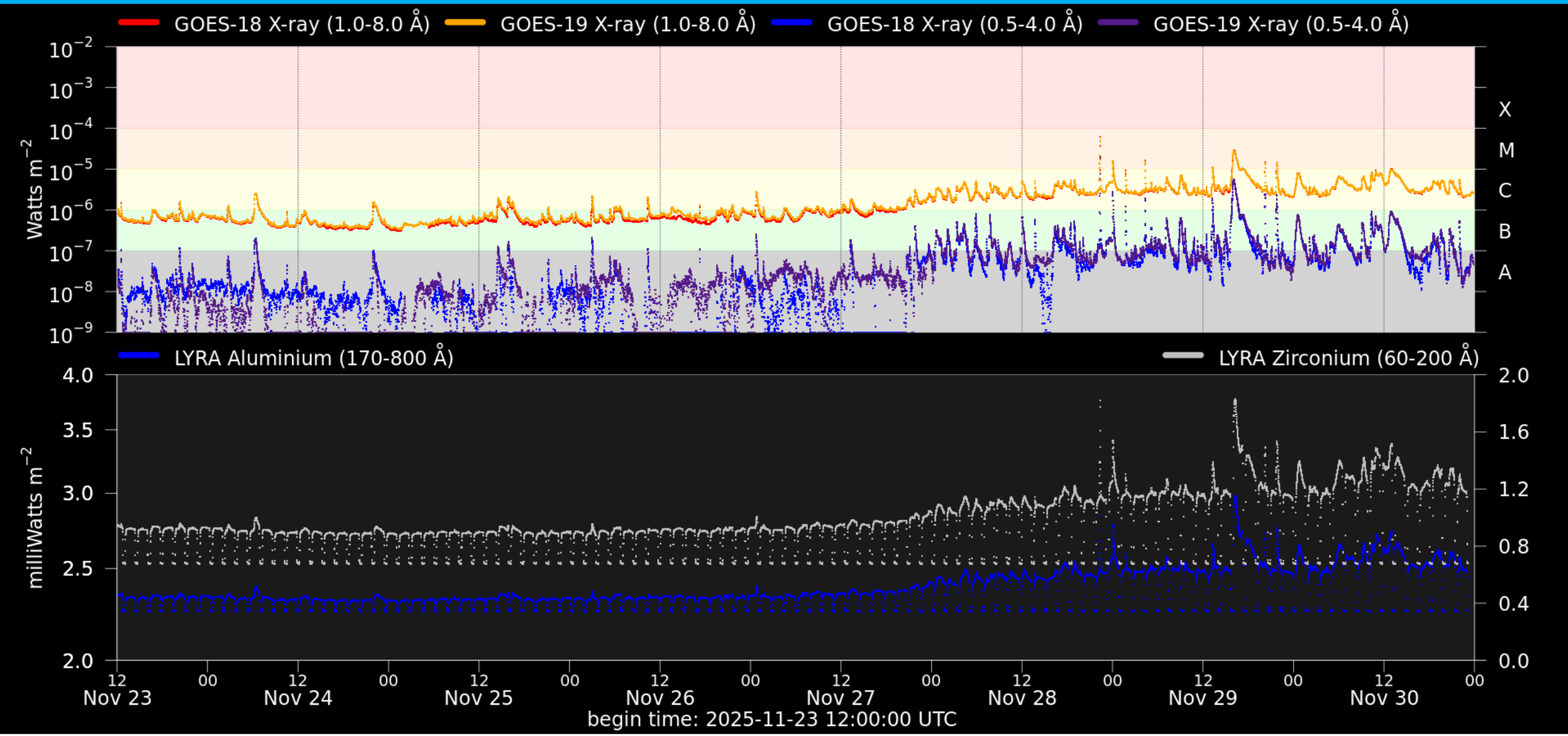
Flaring activity



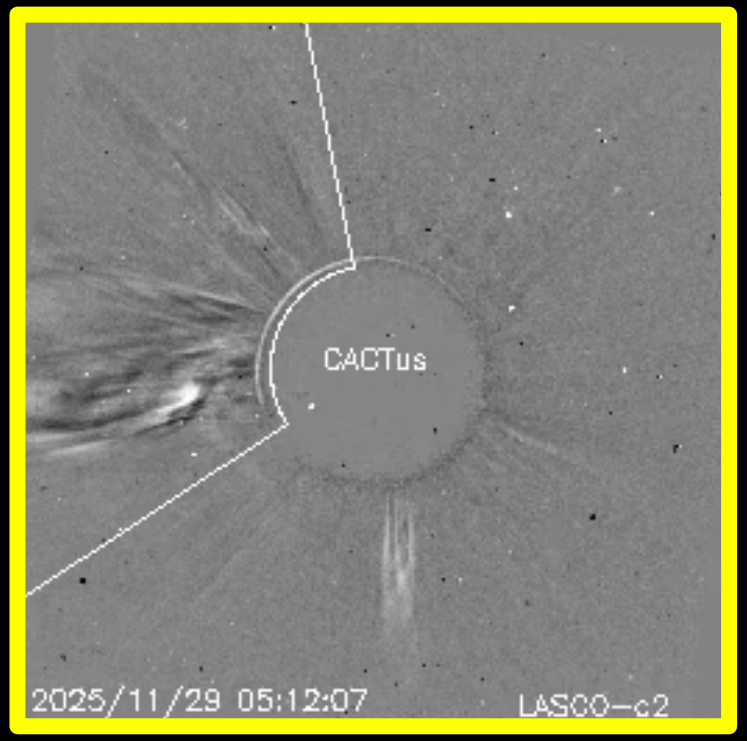
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

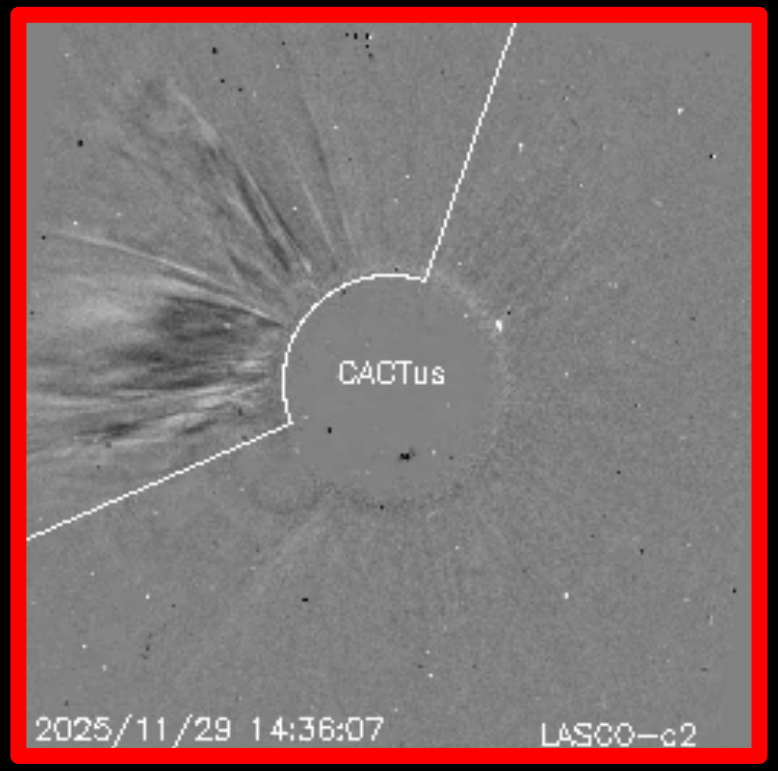
Issue date	2025-11-23	2025-11-24	2025-11-25	2025-11-26	2025-11-27	2025-11-28	2025-11-29	2025-11-30
Probability (%)	81|25|01	95|25|01	90|30|01	90|25|01	96|01|01	99|60|15	99|90|20	99|90|25
Observed (#)	05|00|00	00|00|00	06|00|00	03|00|00	05|00|00	08|03|00	06|03|00	02|00|00

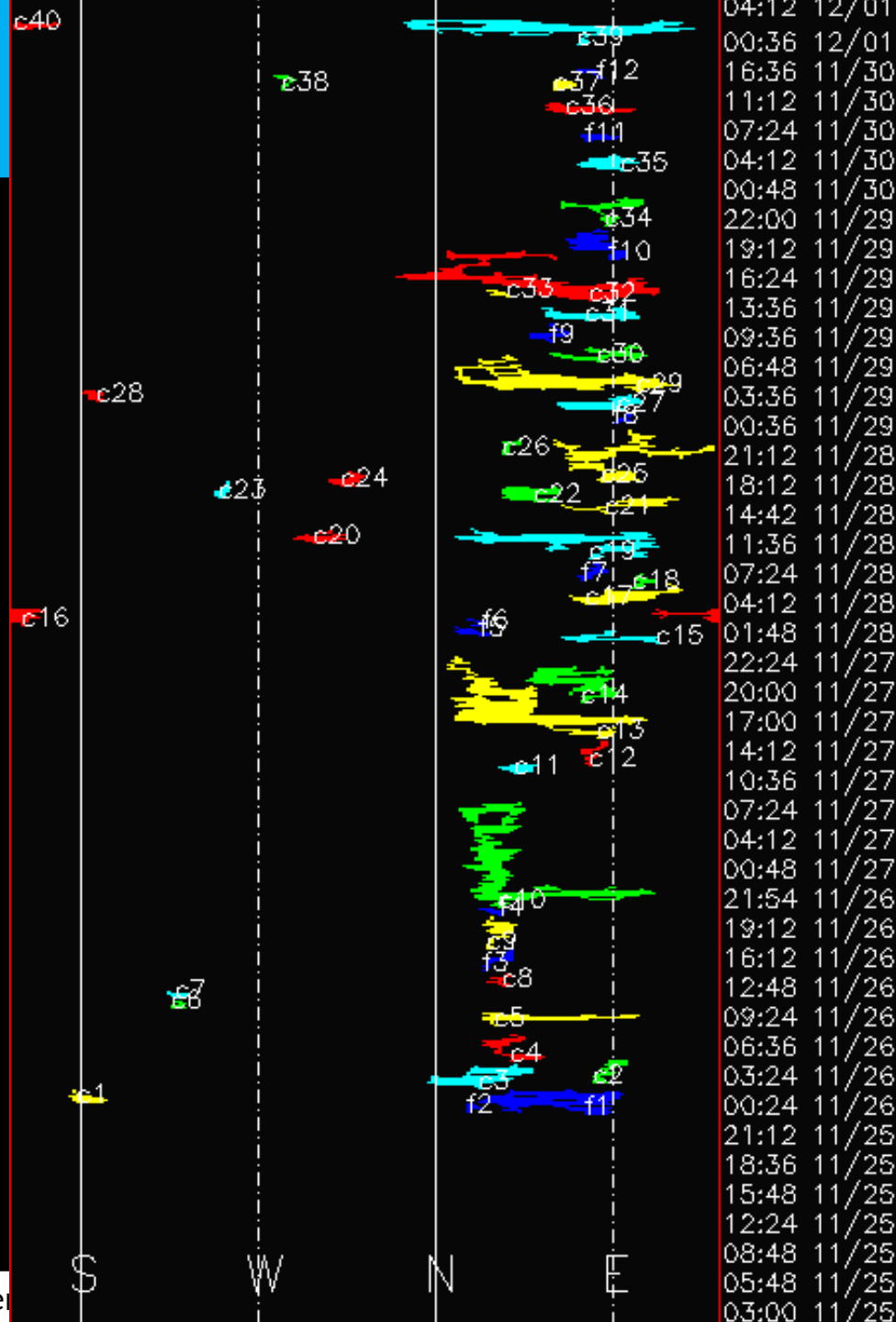
Solar X-Ray and UV flux



Coronal Mass Ejections







Solar Wind and

Geomagnetic Activity



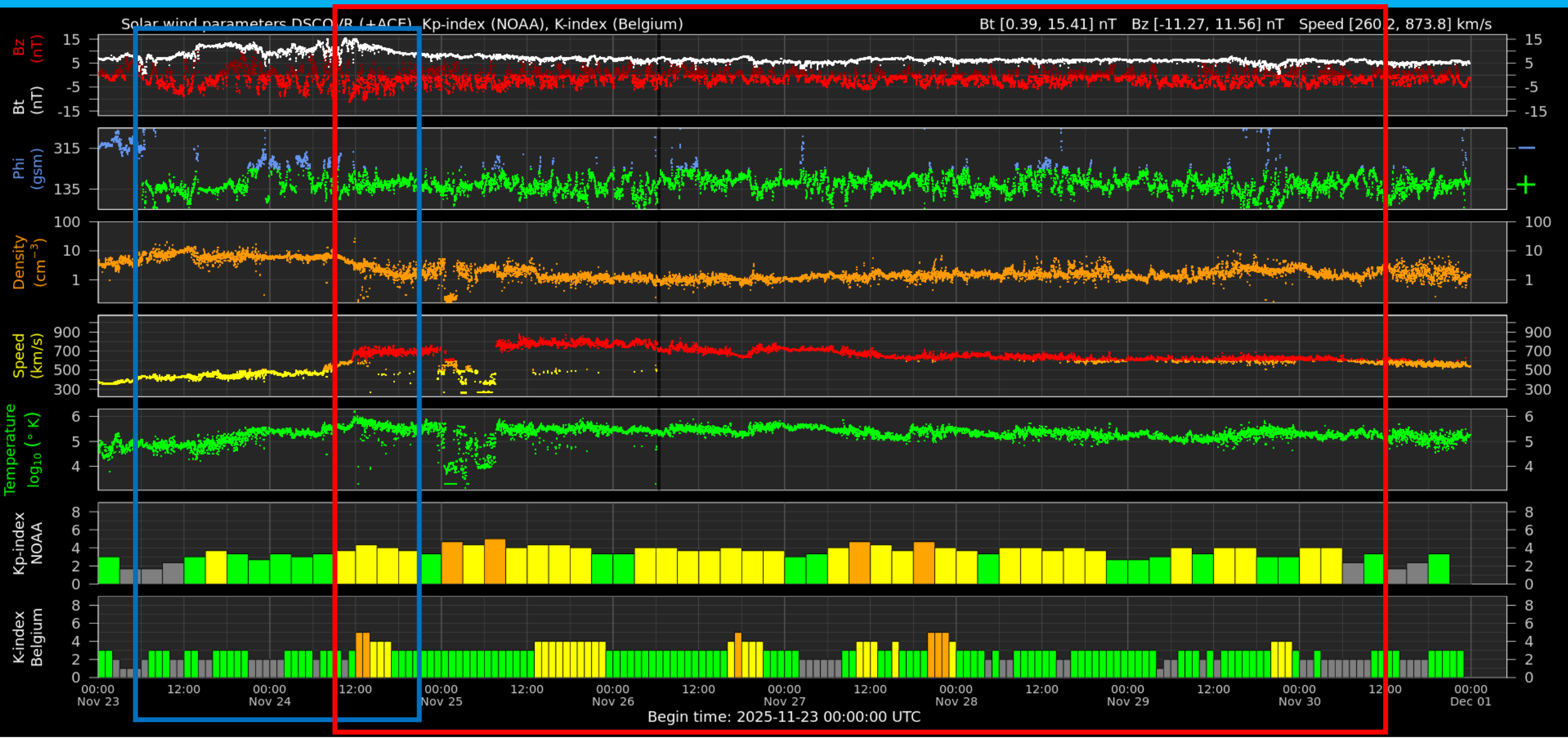
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Solar wind parameters & K-indices

CIR

HSS



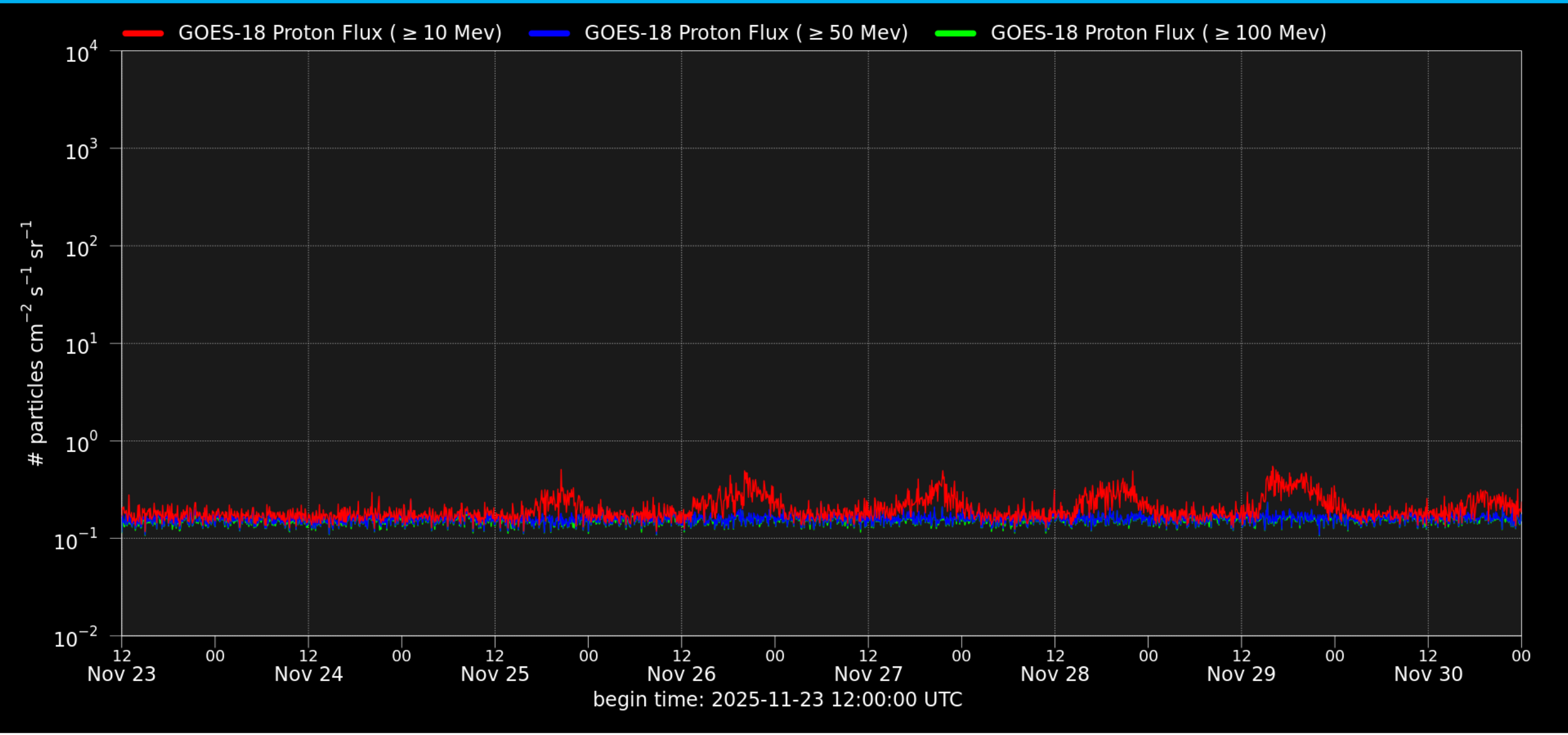
Energetic Particles



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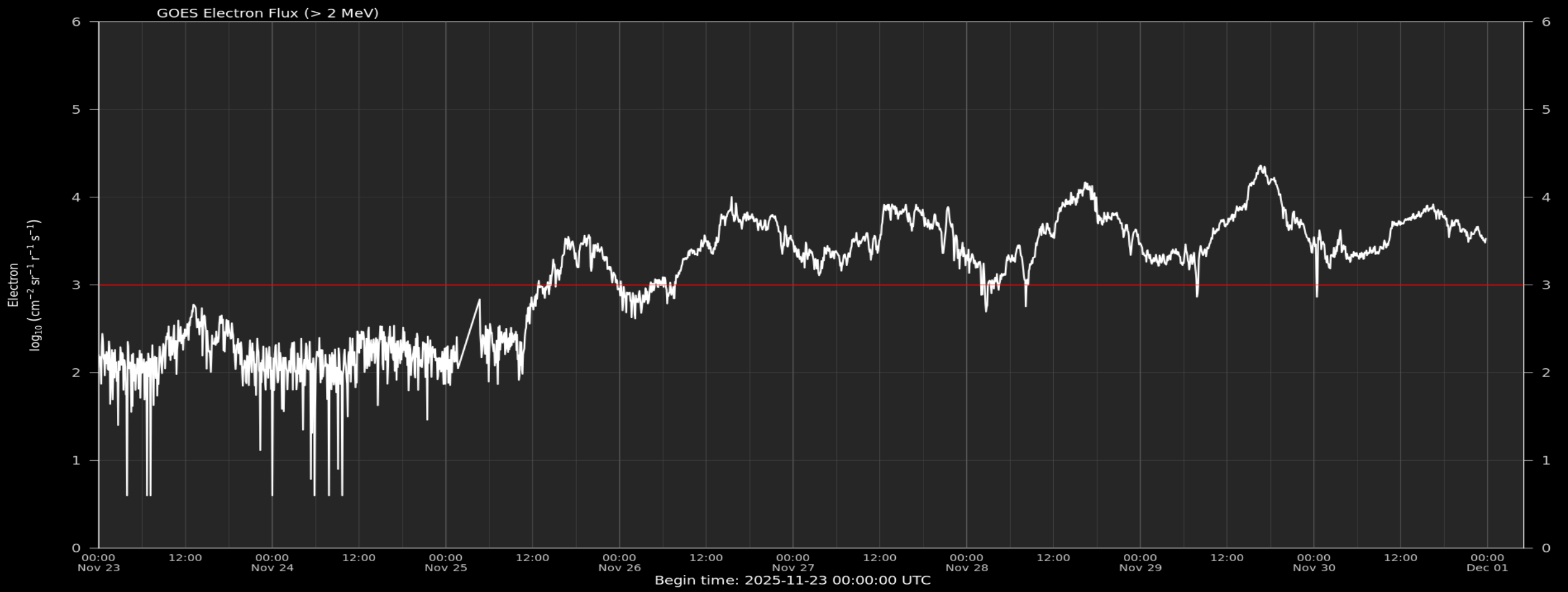
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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

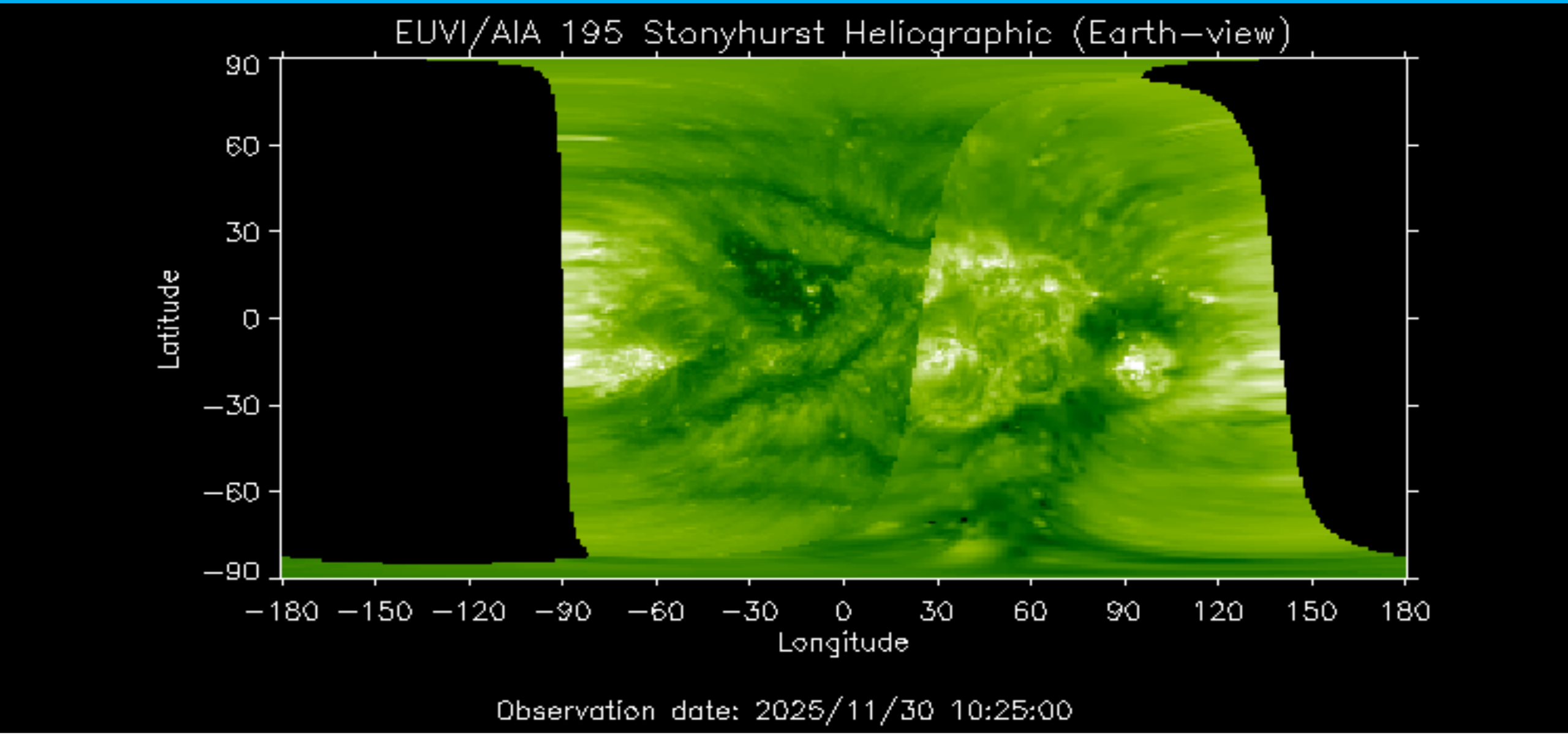


Outlook

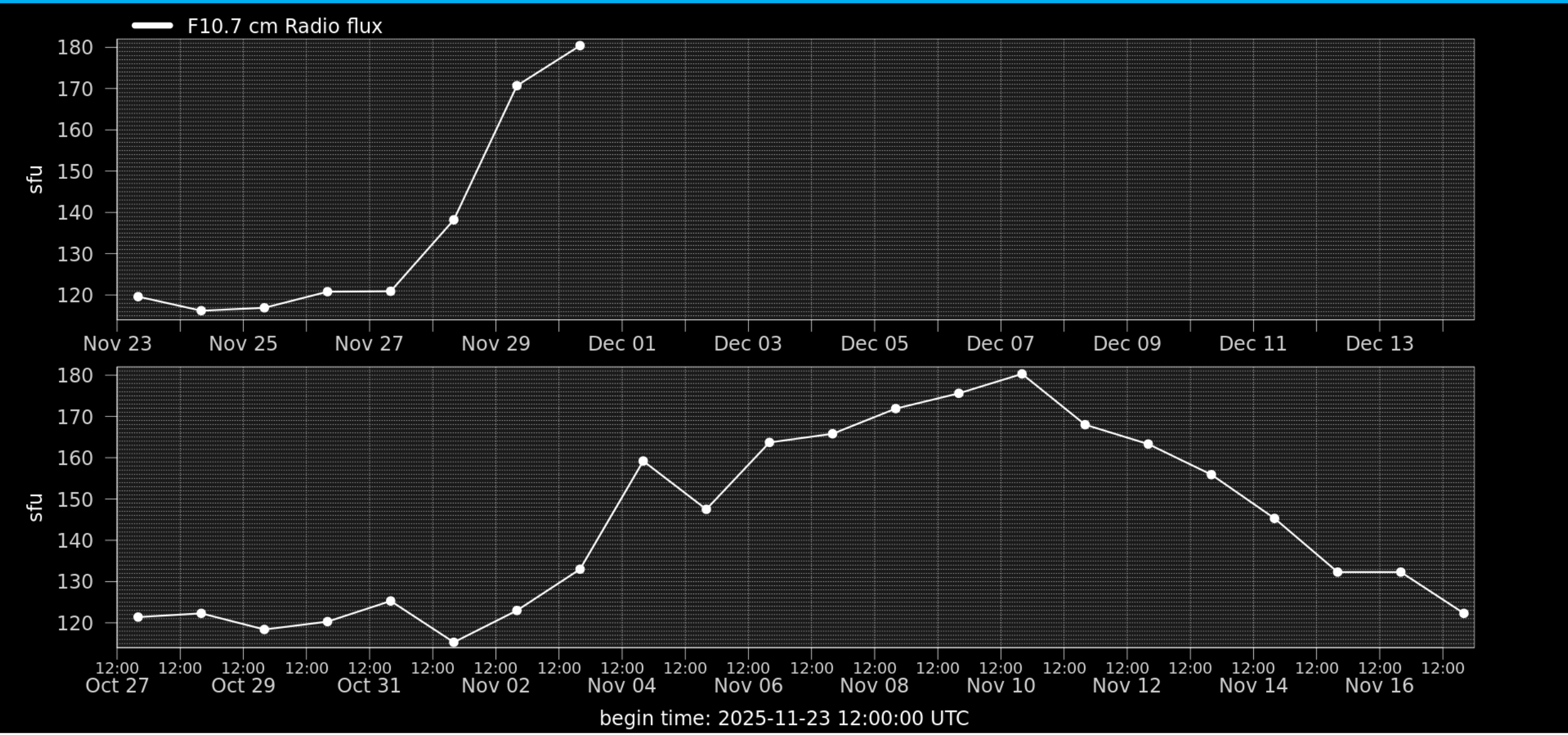
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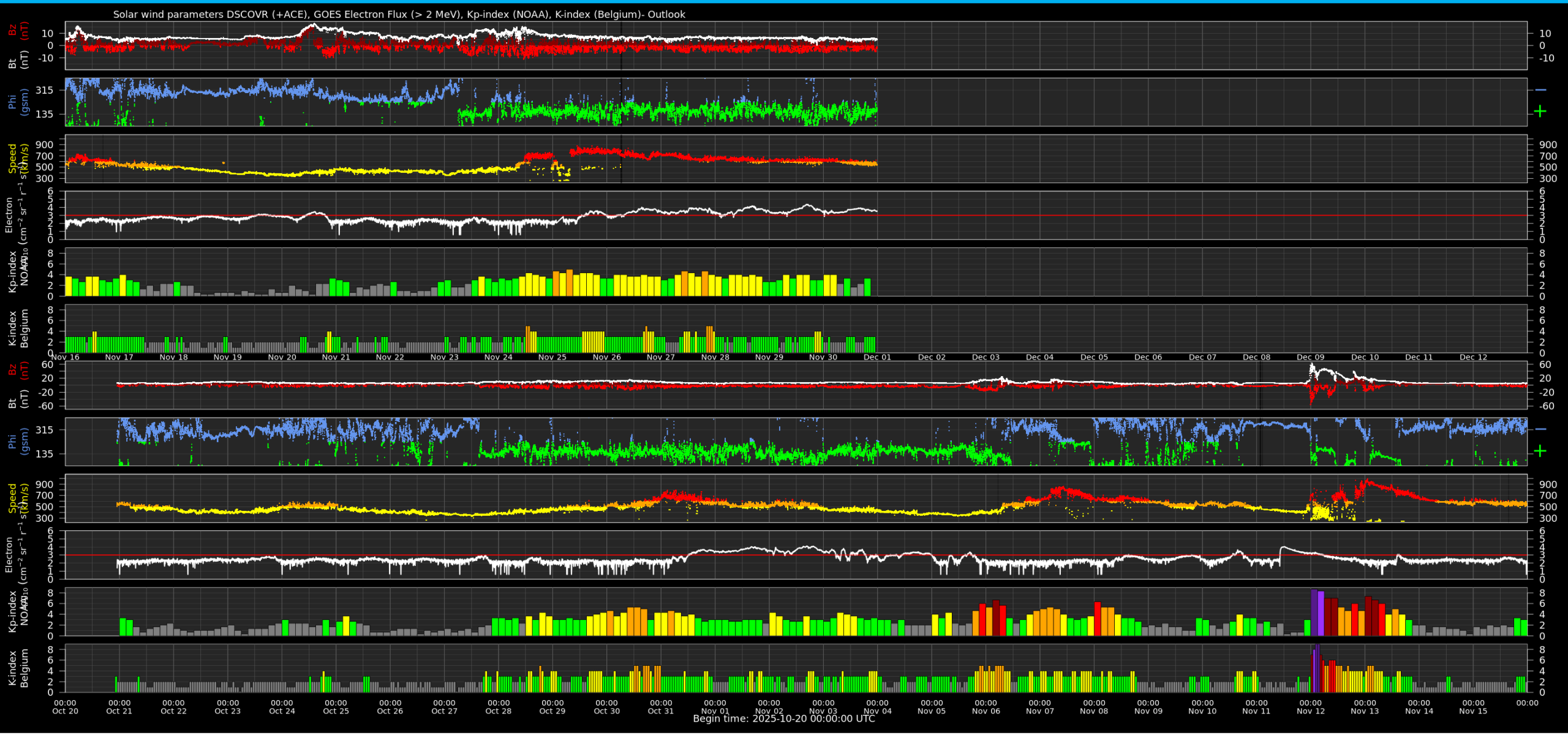
Outlook: Solar activity



Outlook: Solar F10.7cm radio flux



Outlook: Electron Flux at GEO Outlook



PECASUS

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Pecasus related events

On Duty Centre (advisories issued to Aviation)

Eight GNSS advisories issued

New co-ordinate reporting allows for more detailed geographical reporting

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