

SIDC Space Weather Briefing

18 May 2026-24 May 2026

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& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-05-18 00:00 to 2026-05-24 23:59

Active regions	SIDC Sunspot Groups/NOAA Active Regions: 825/4436, 869/4439, 870/4441, 873/4446
Flares	# C-class flare: 35 # M-class flare: 1 # X-class flare: 0
Coronal Holes	SIDC Coronal Hole 164 southern, high-latitude, positive polarity
CMEs	No (partially) halo

Proton flux	Nominal levels
Electron flux	Above 1000 pfu alert threshold

Solar wind and geomagnetic conditions

ICMEs	Glancing blow from SIDC CME 656 on 19 May
Solar wind conditions	B : 1 - 8 nT //Bz: -8 nT to 7 nT //Speed: 280 – 650 km/s
Geomagnetic conditions	max K _{Be} : 4.0, max K _p (NOAA): 4.0, Active conditions

All Quiet Alert: Not quiet

Solar Activity

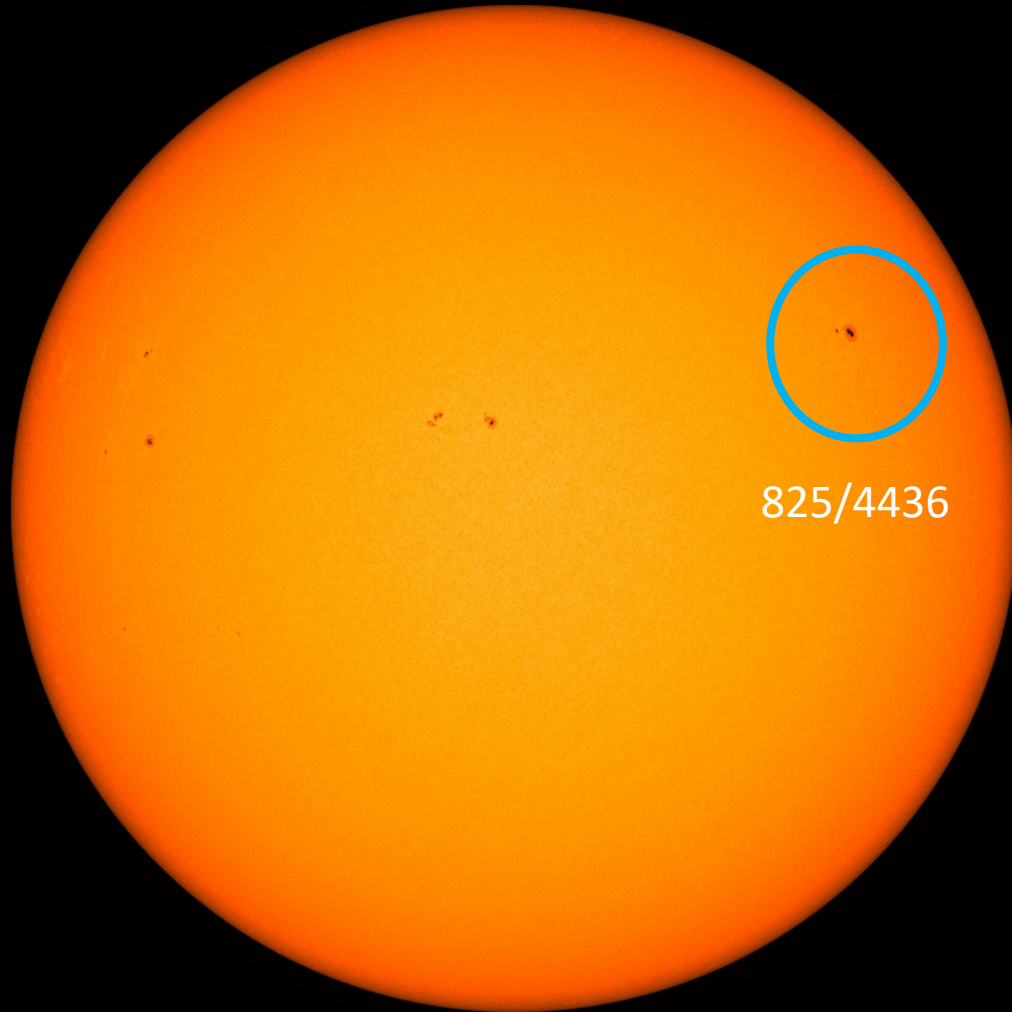


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Solar active regions

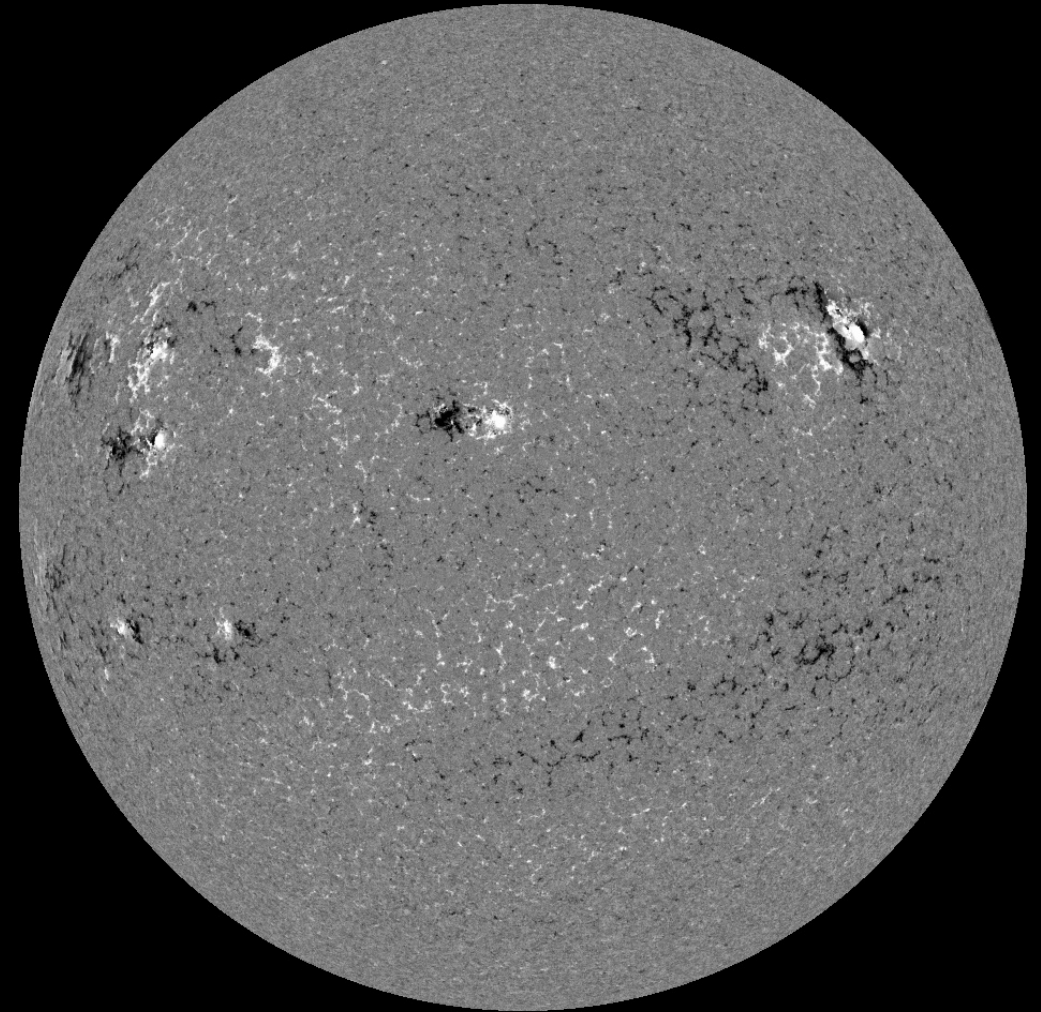
SDO/HMI White Light 2026-05-18



825/4436

SDO/HMI Continuum: 20260518_120000

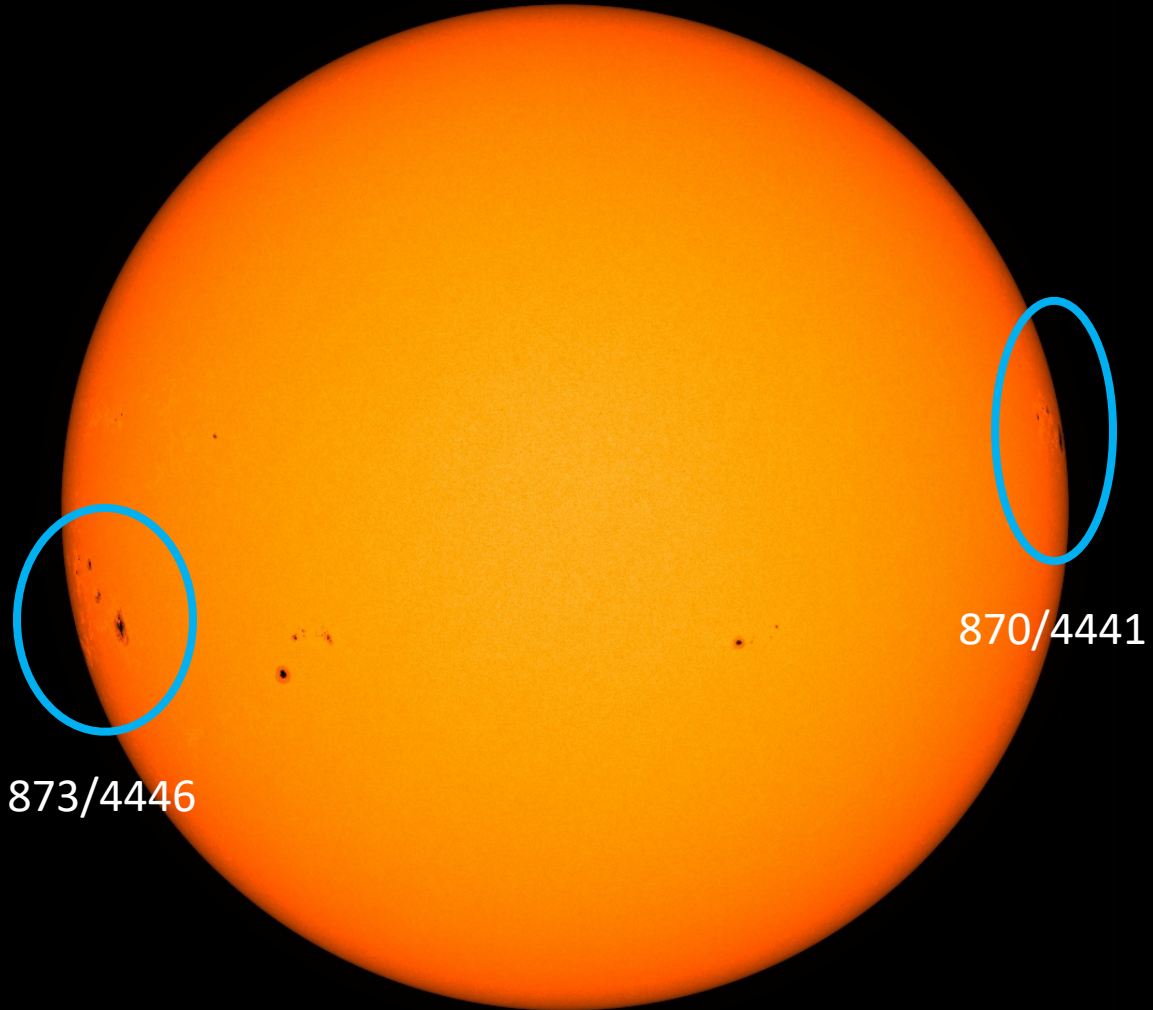
SDO/HMI Magnetogram 2026-05-18



SDO/HMI Magnetogram: 20260518_120000

Solar active regions

SDO/HMI White Light 2026-05-24

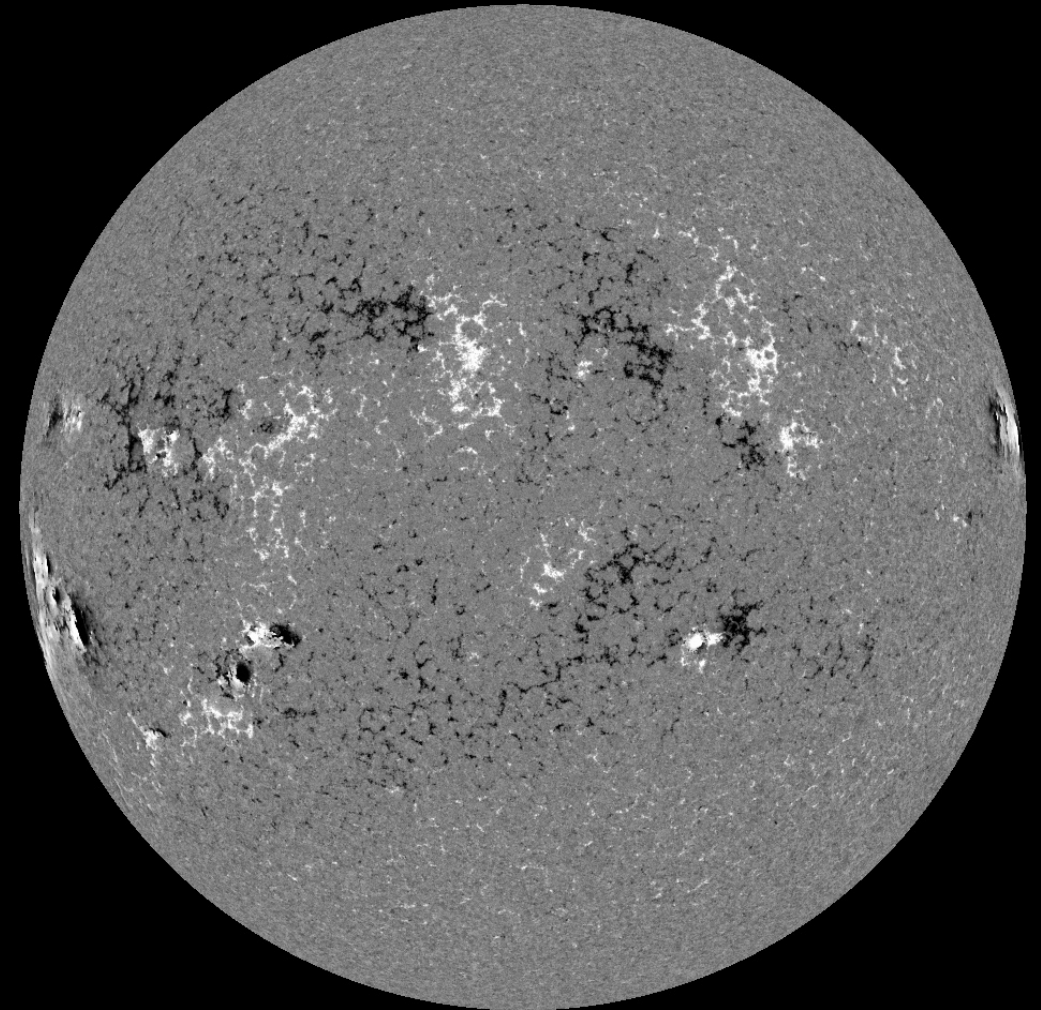


873/4446

870/4441

SDO/HMI Quick-Look Continuum: 20260524_120000

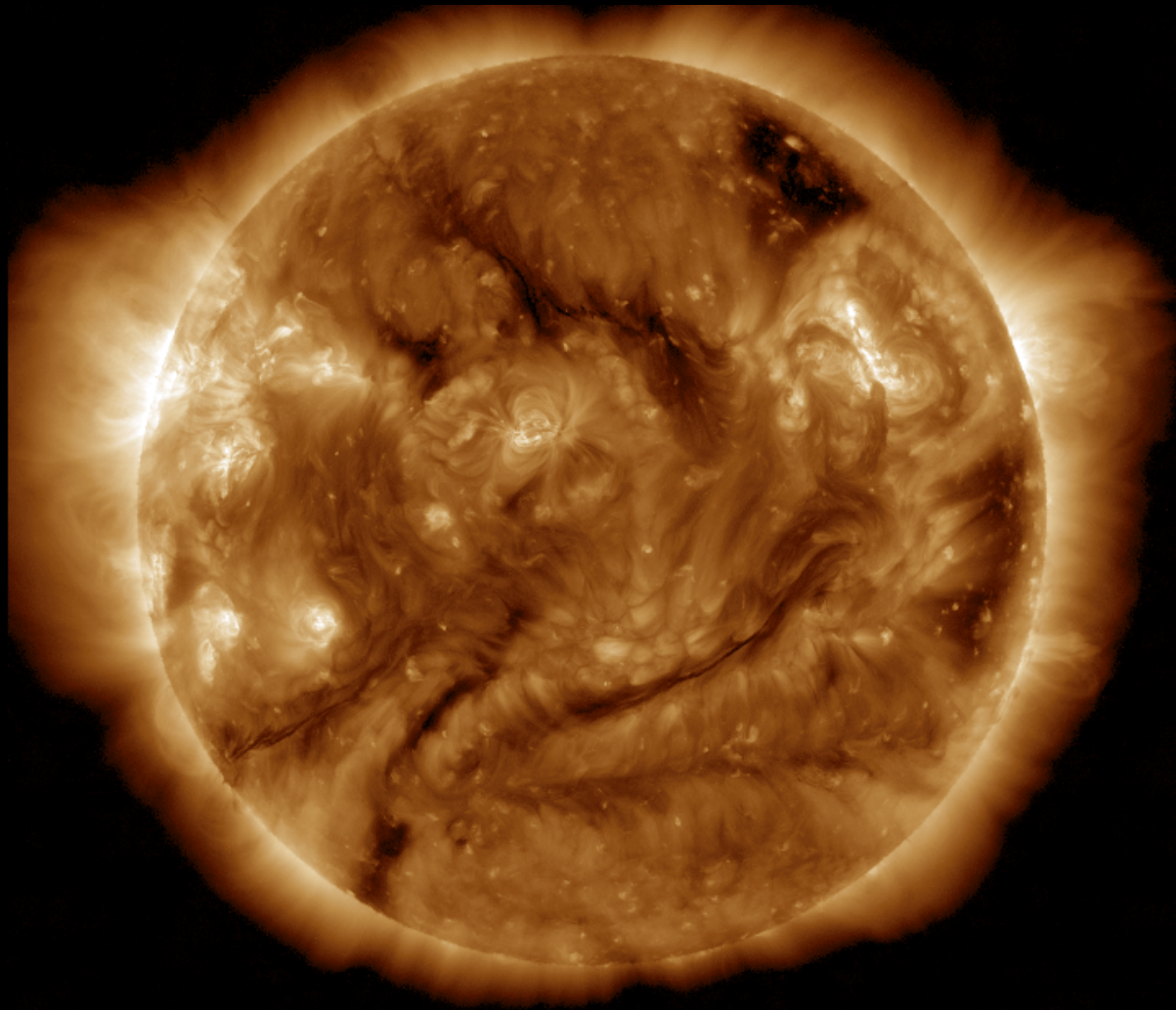
SDO/HMI Magnetogram 2026-05-24



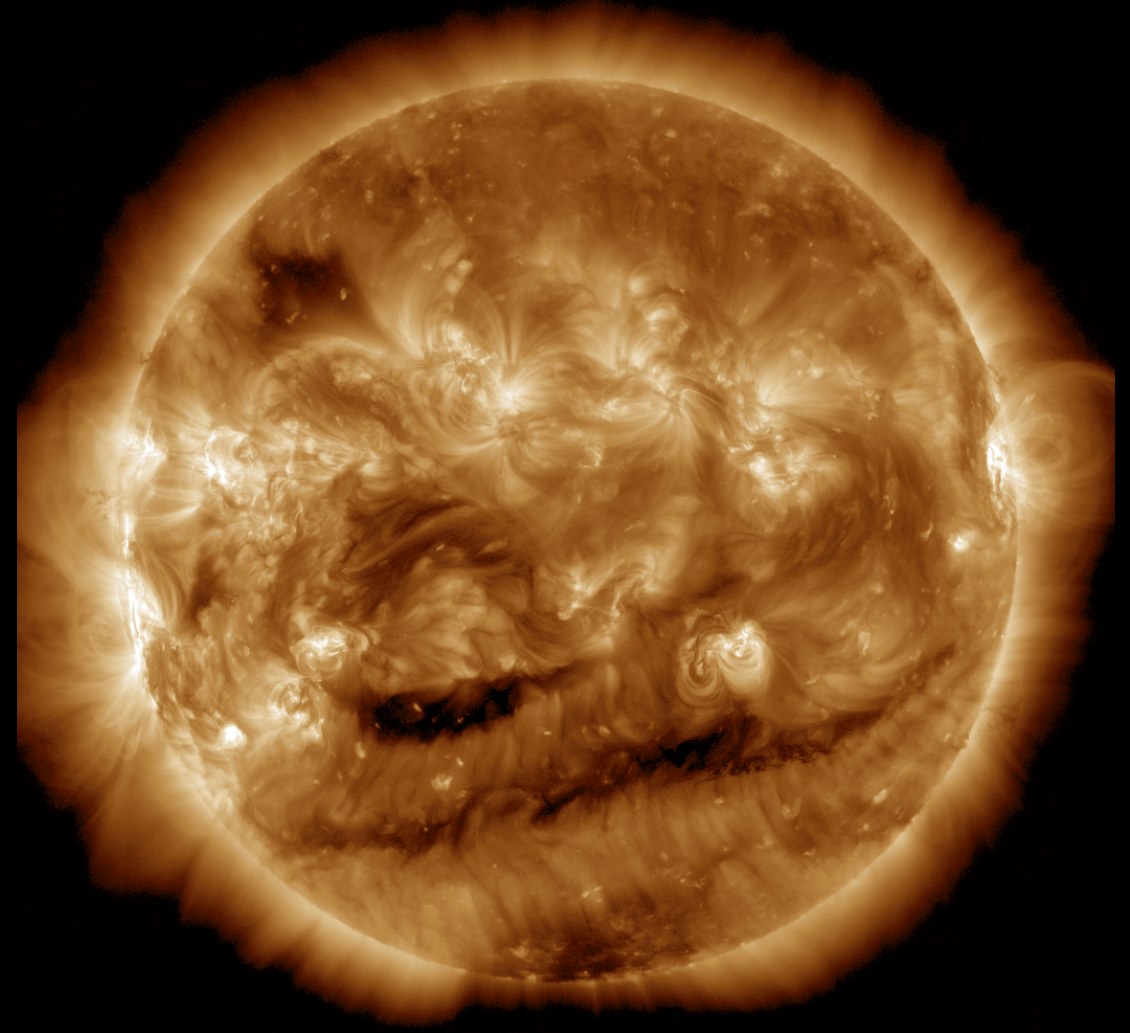
SDO/HMI Quick-Look Magnetogram: 20260524_120000

Coronal holes

SDO/AIA 19.3 nm 2026-05-18

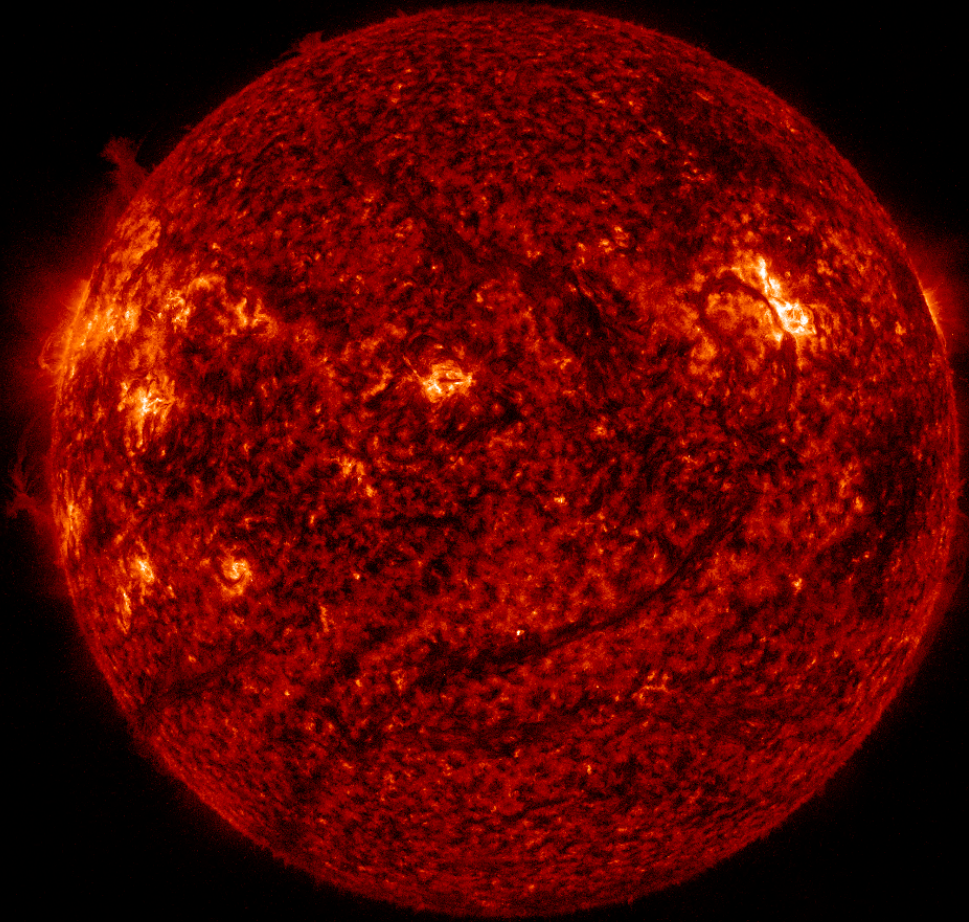


SDO/AIA 19.3 nm 2026-05-24

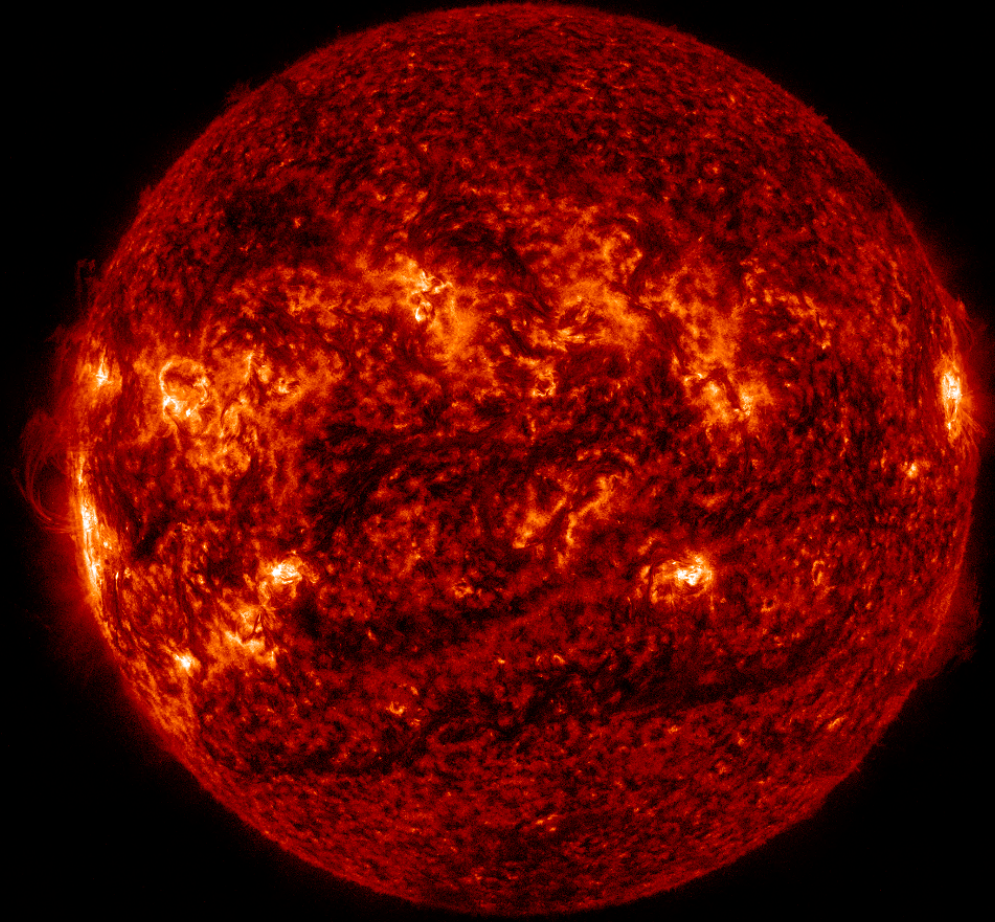


Filaments

SDO/AIA 30.4 nm 2026-05-18



SDO/AIA 30.4 nm 2026-05-25



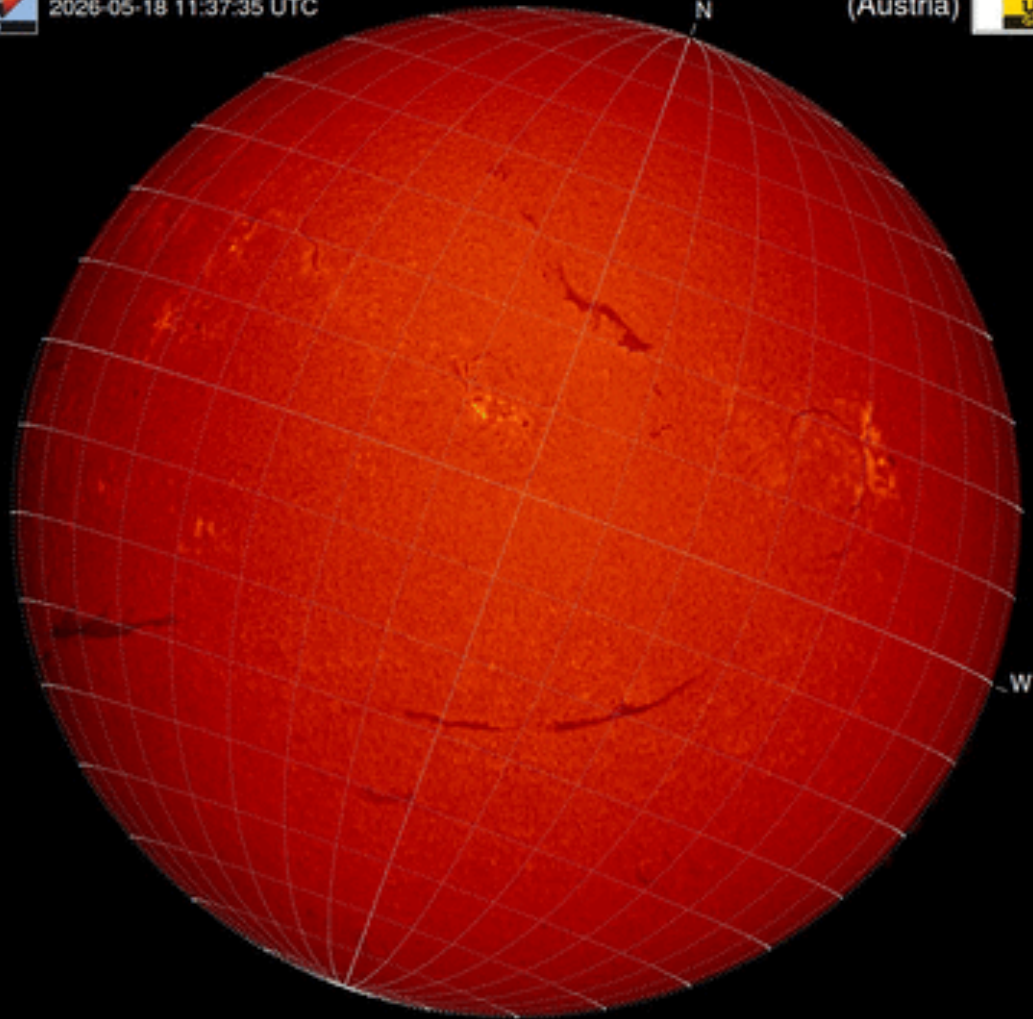
Filaments & Filament eruptions

H-alpha 2026-05-18



Kanzelhöhe Observatory
2026-05-18 11:37:35 UTC

University of Graz
(Austria)

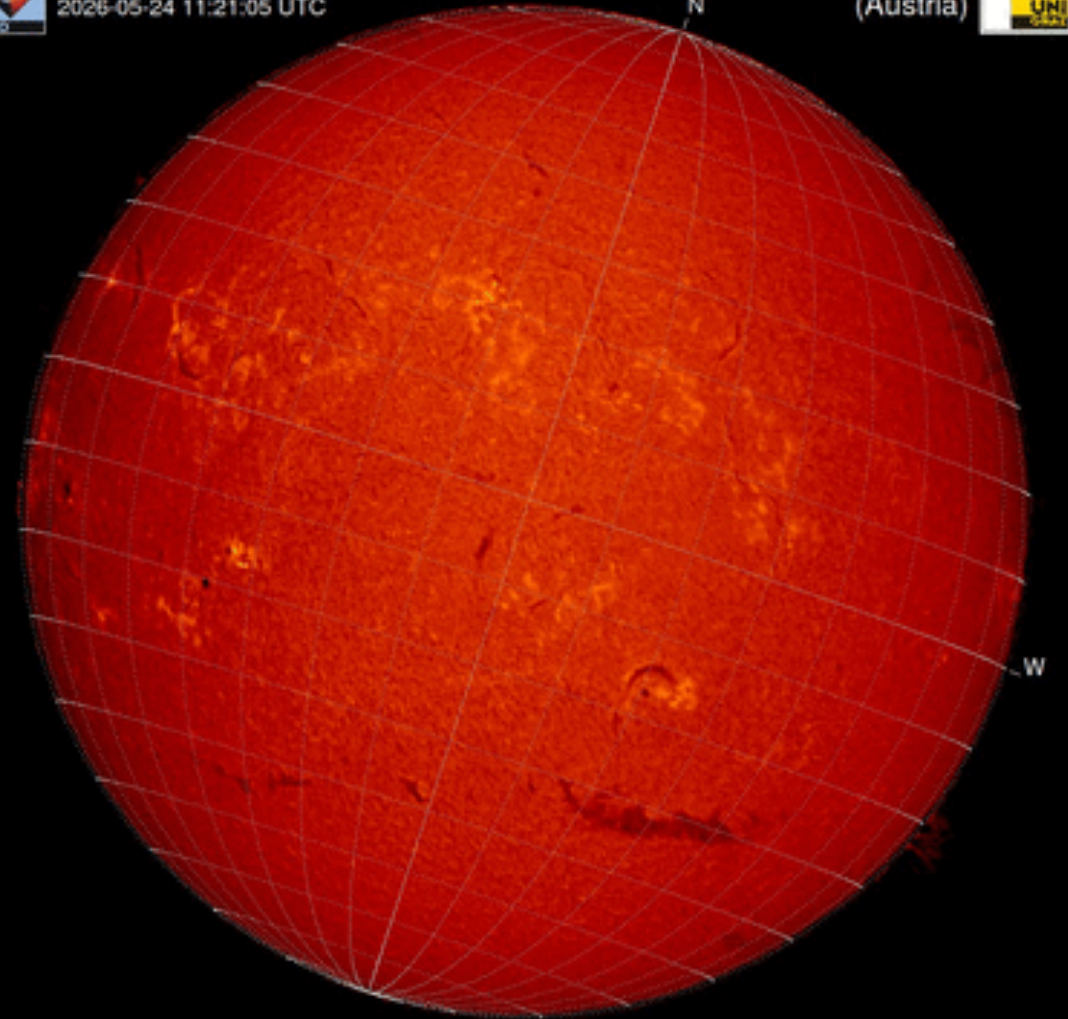


H-alpha 2026-05-24

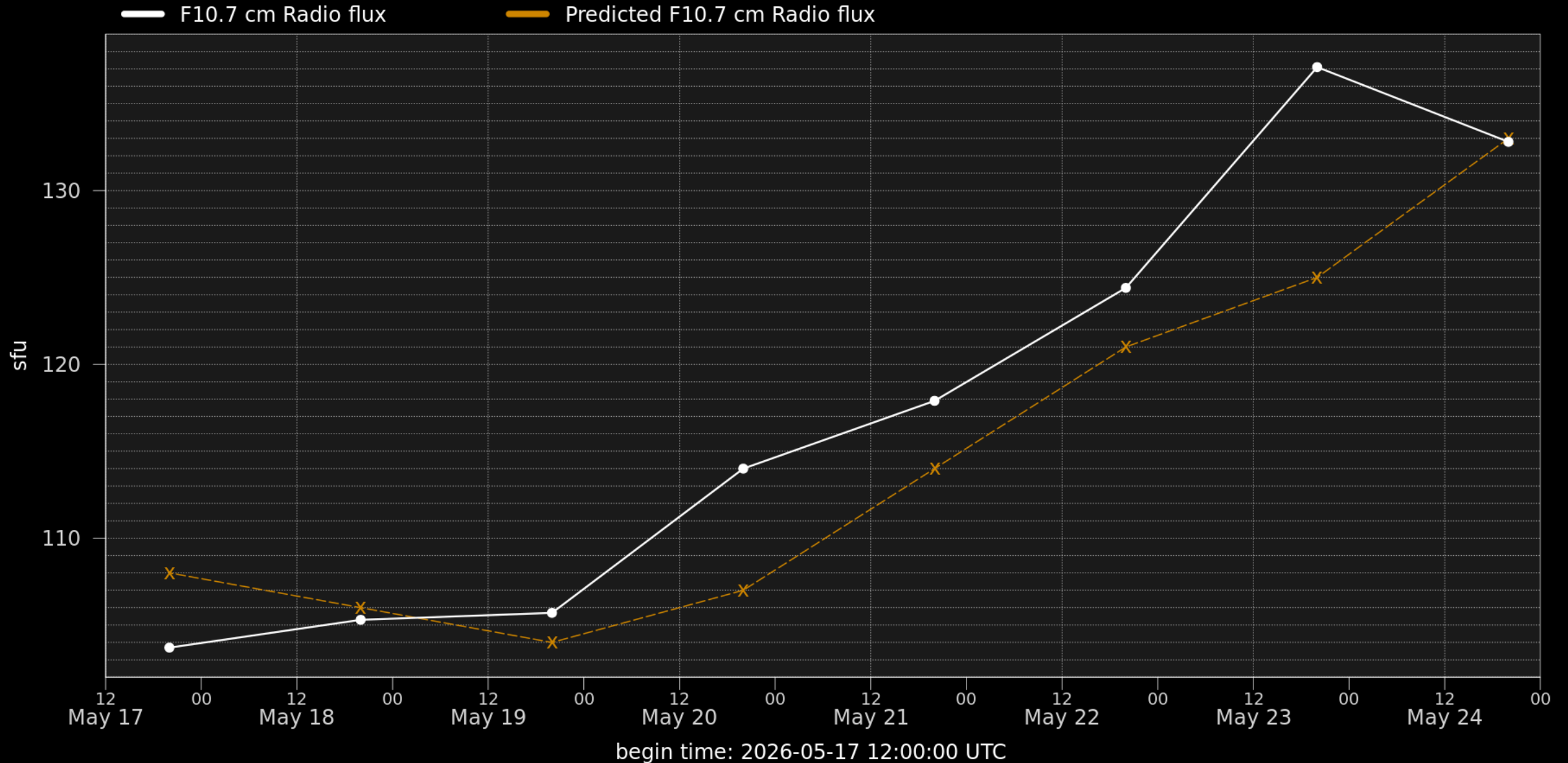


Kanzelhöhe Observatory
2026-05-24 11:21:05 UTC

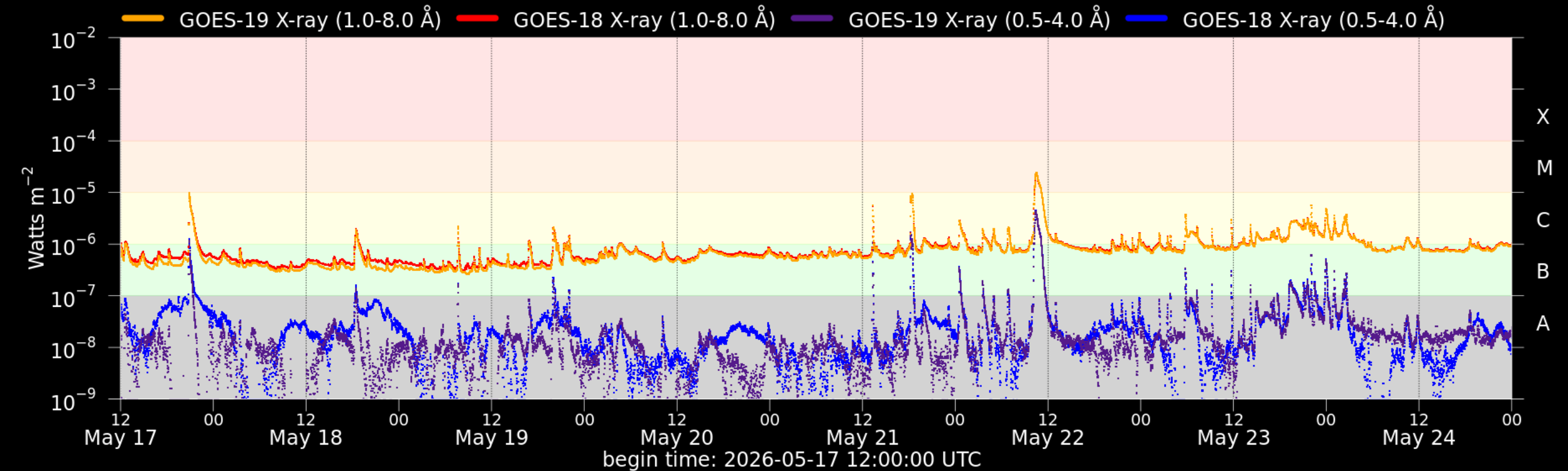
University of Graz
(Austria)



Solar F10.7cm radio flux



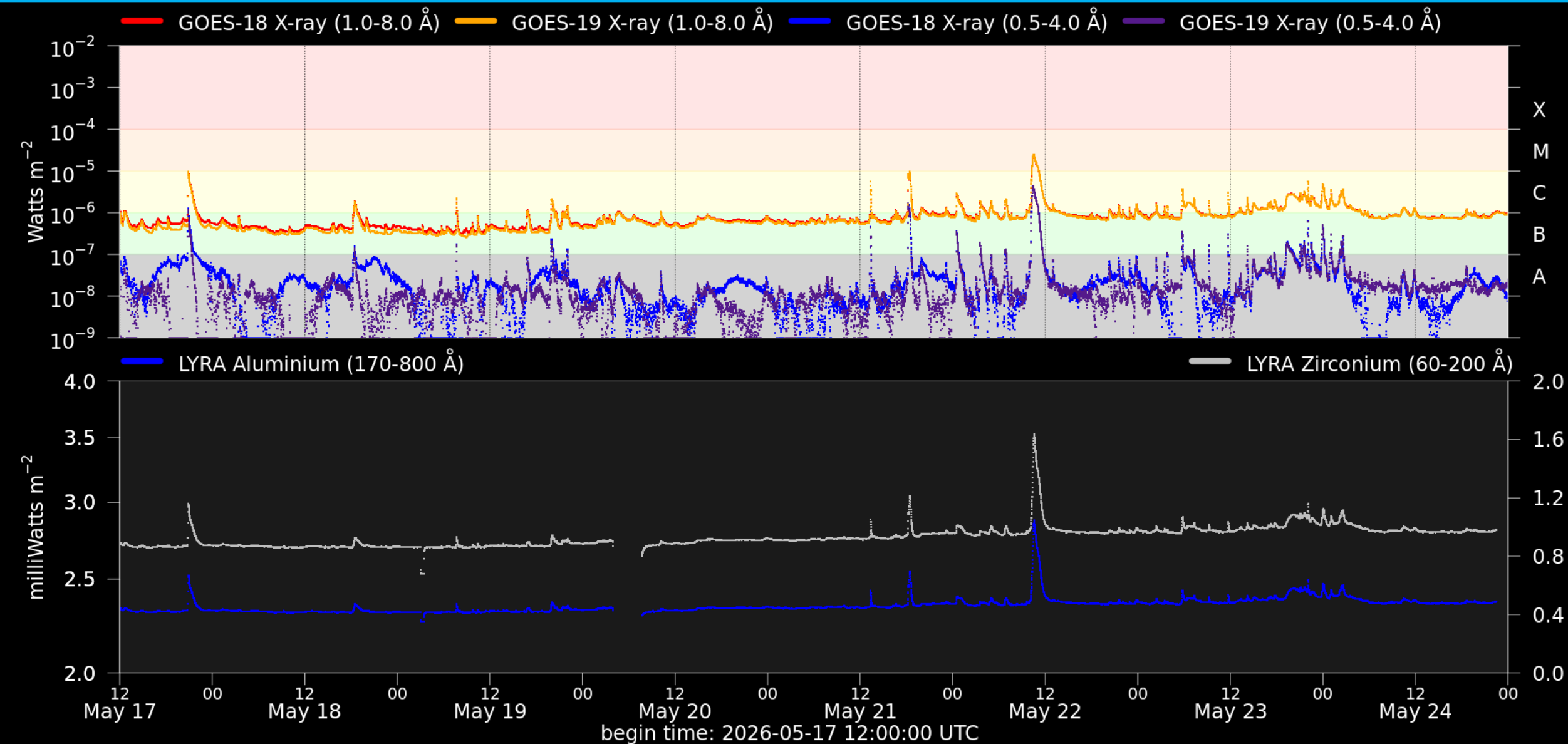
Flaring activity



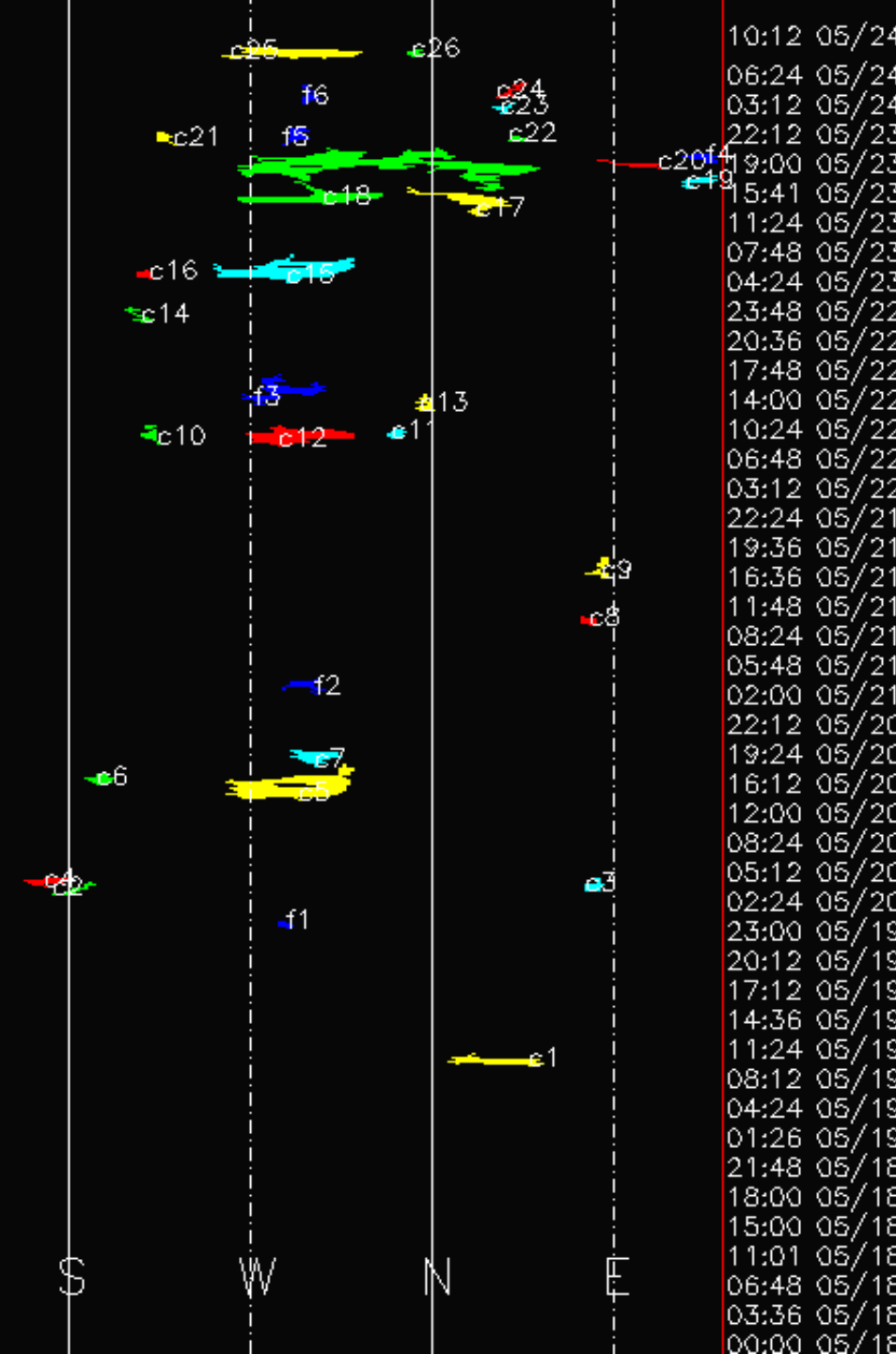
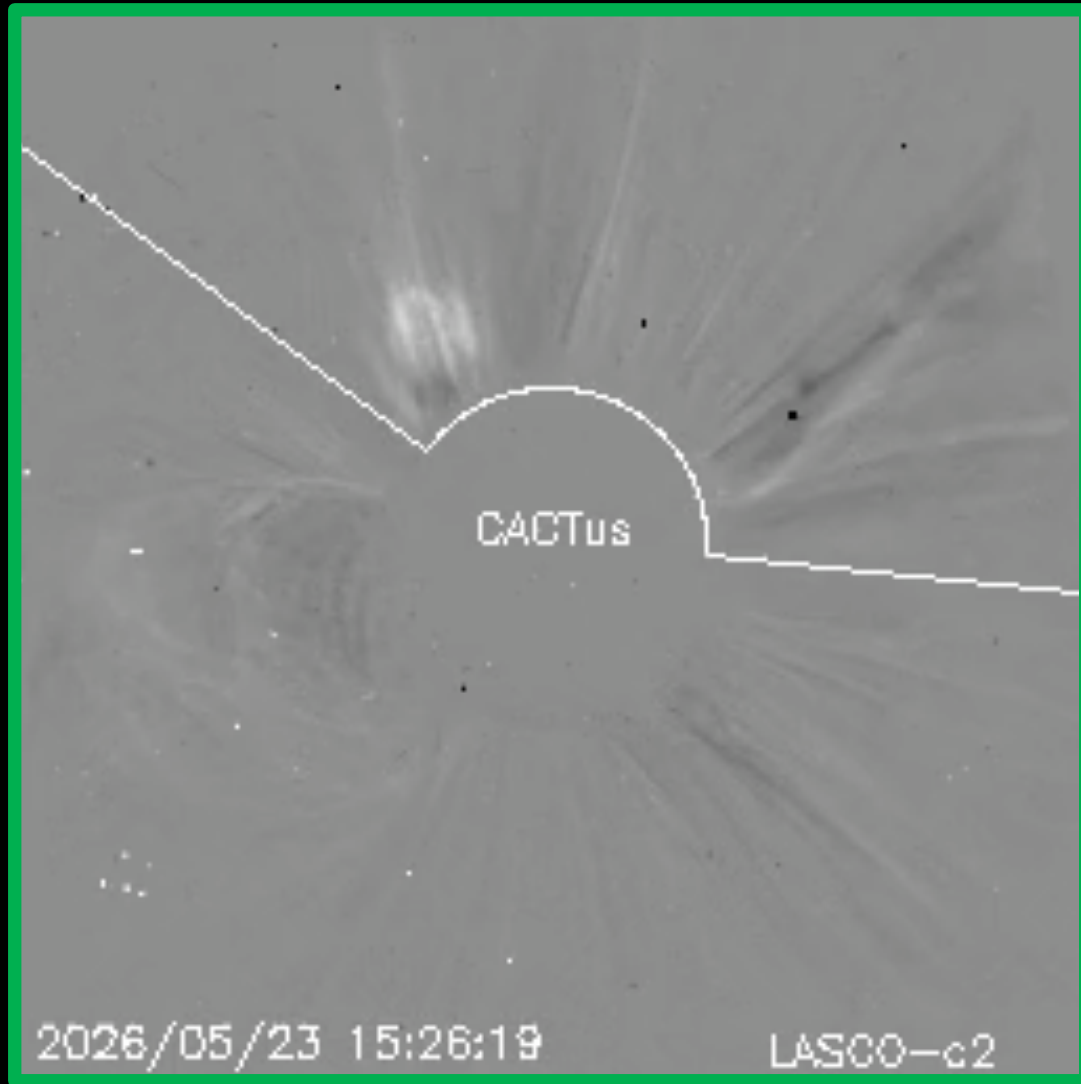
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2026-05-17	2026-05-18	2026-05-19	2026-05-20	2026-05-21	2026-05-22	2026-05-23	2026-05-24
Probability (%)	95 43 01	99 10 01	76 01 01	77 01 01	52 01 01	97 20 05	99 01 01	99 15 01
Observed (#)	02 00 00	02 00 00	05 00 00	00 00 00	06 01 00	10 00 00	09 00 00	01 00 00

Solar X-Ray and UV flux



Coronal Mass Ejections



Solar Wind and

Geomagnetic Activity



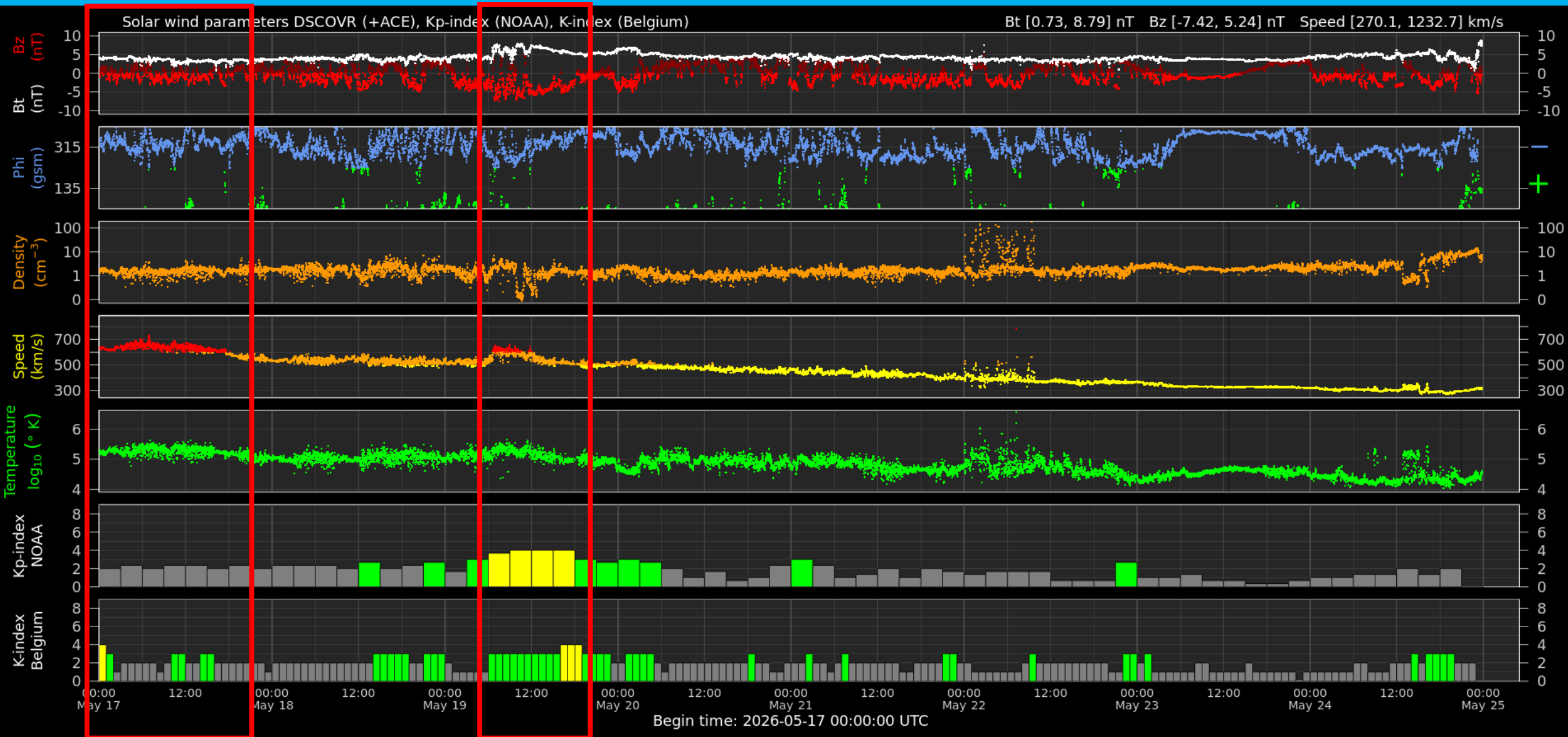
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Solar wind parameters & K-indices

HSS

Glancing blow



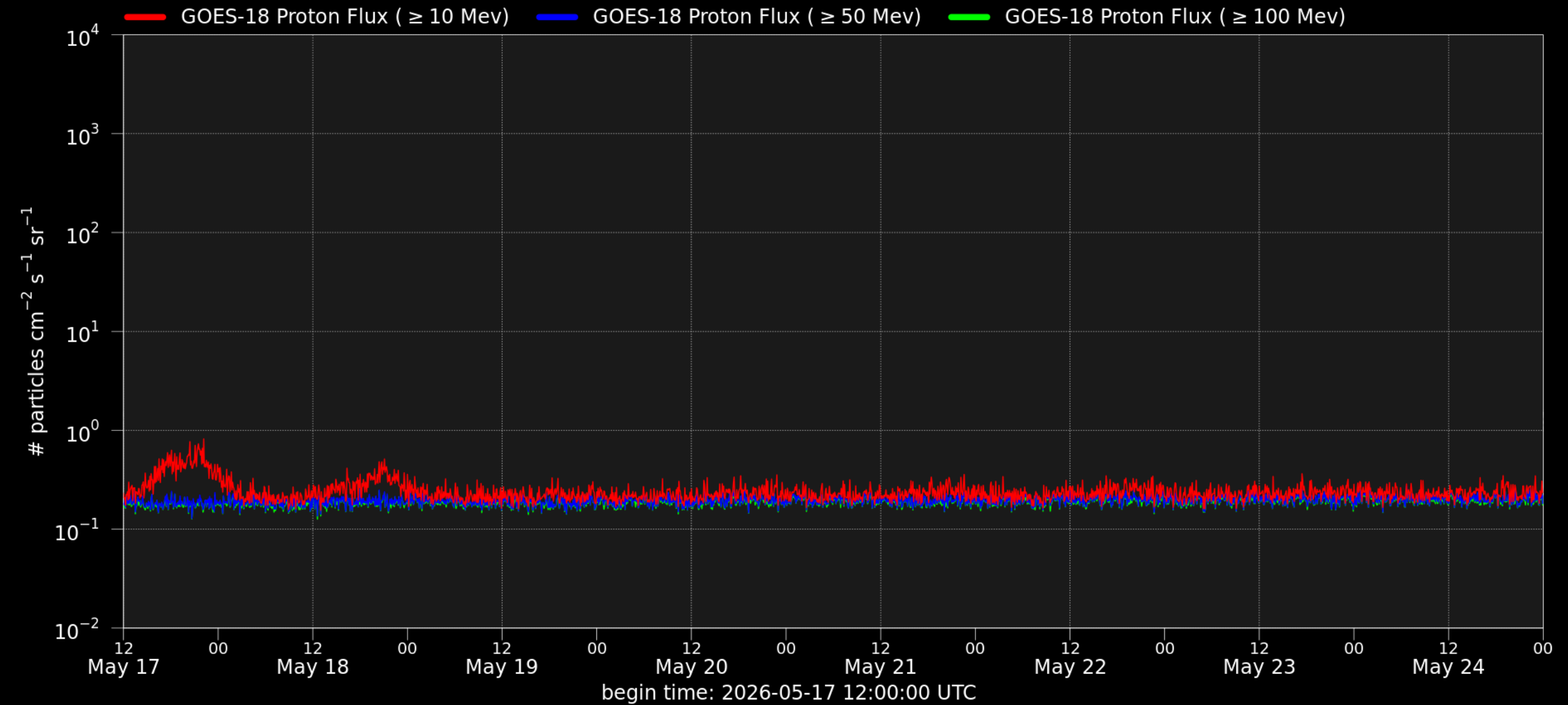
Energetic Particles



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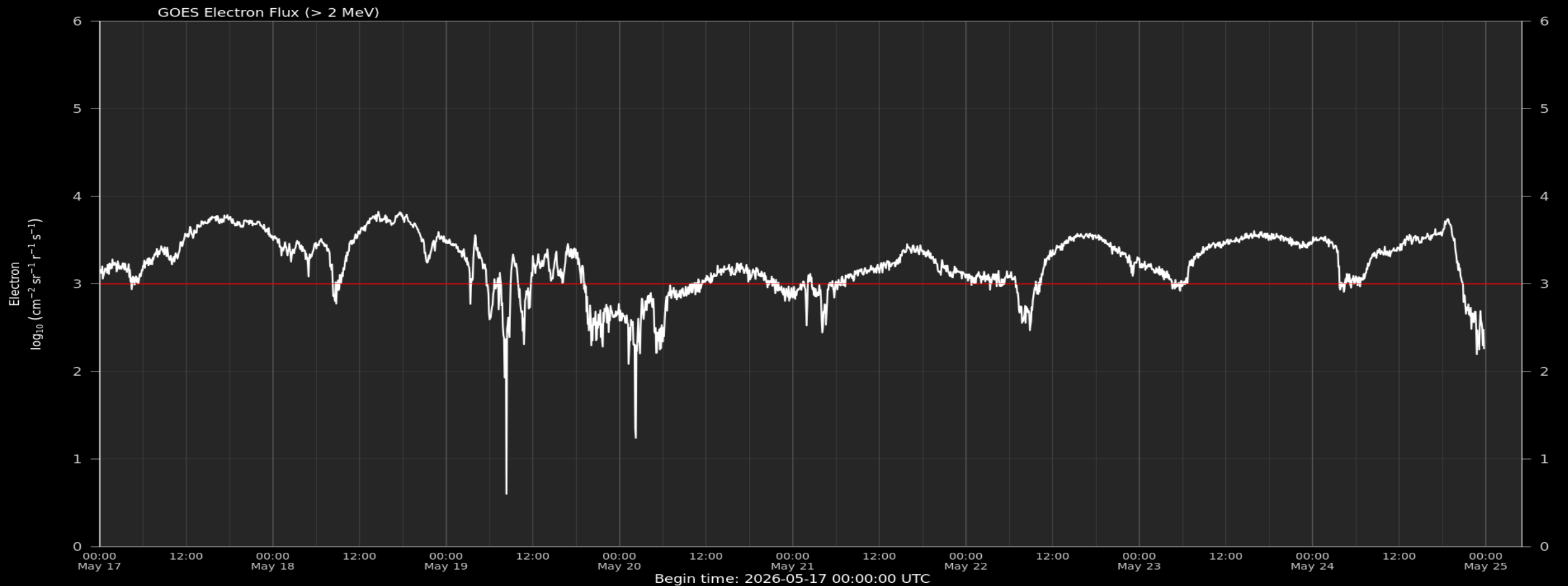
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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



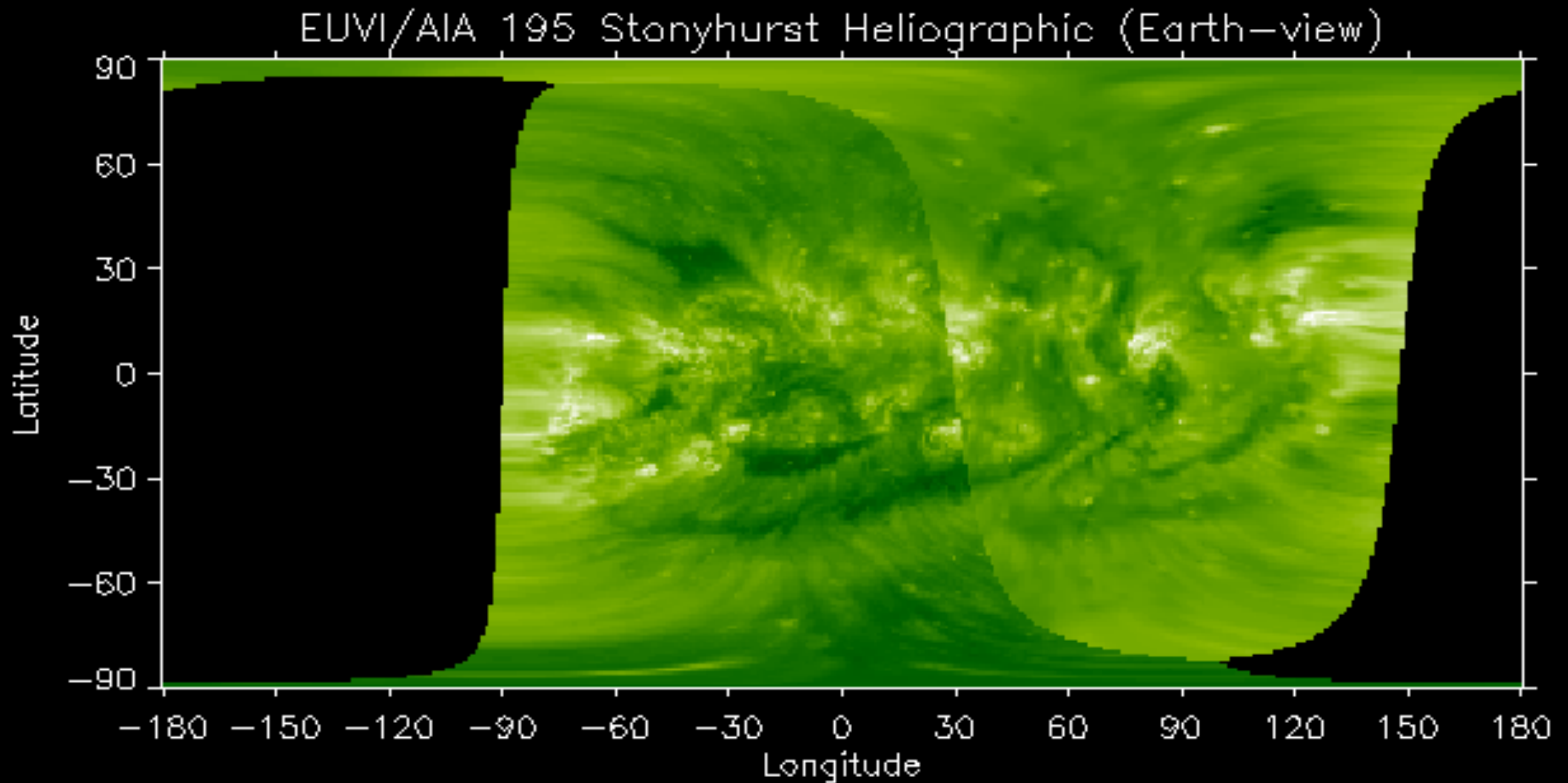
Outlook



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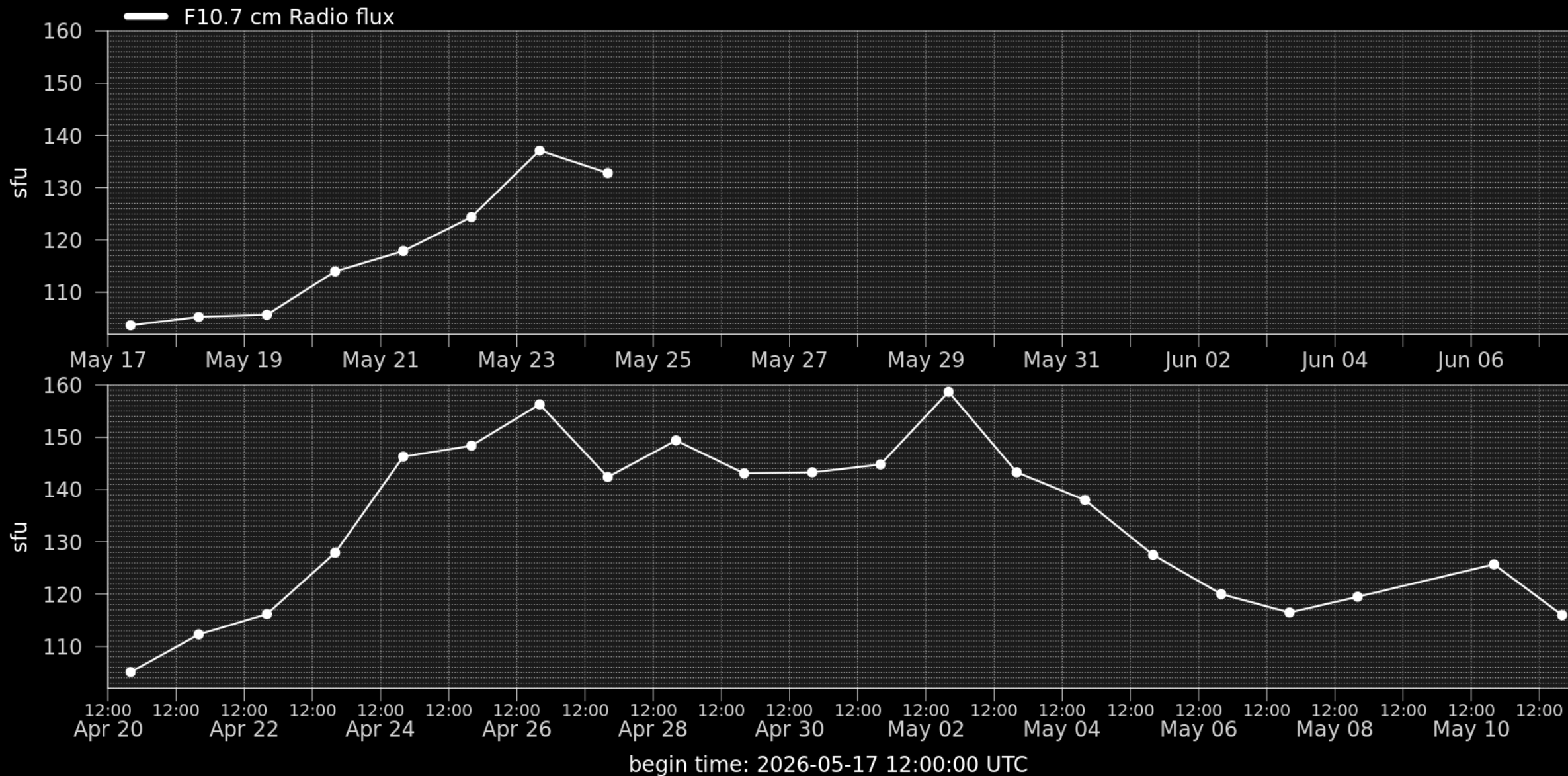
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Outlook: Solar activity

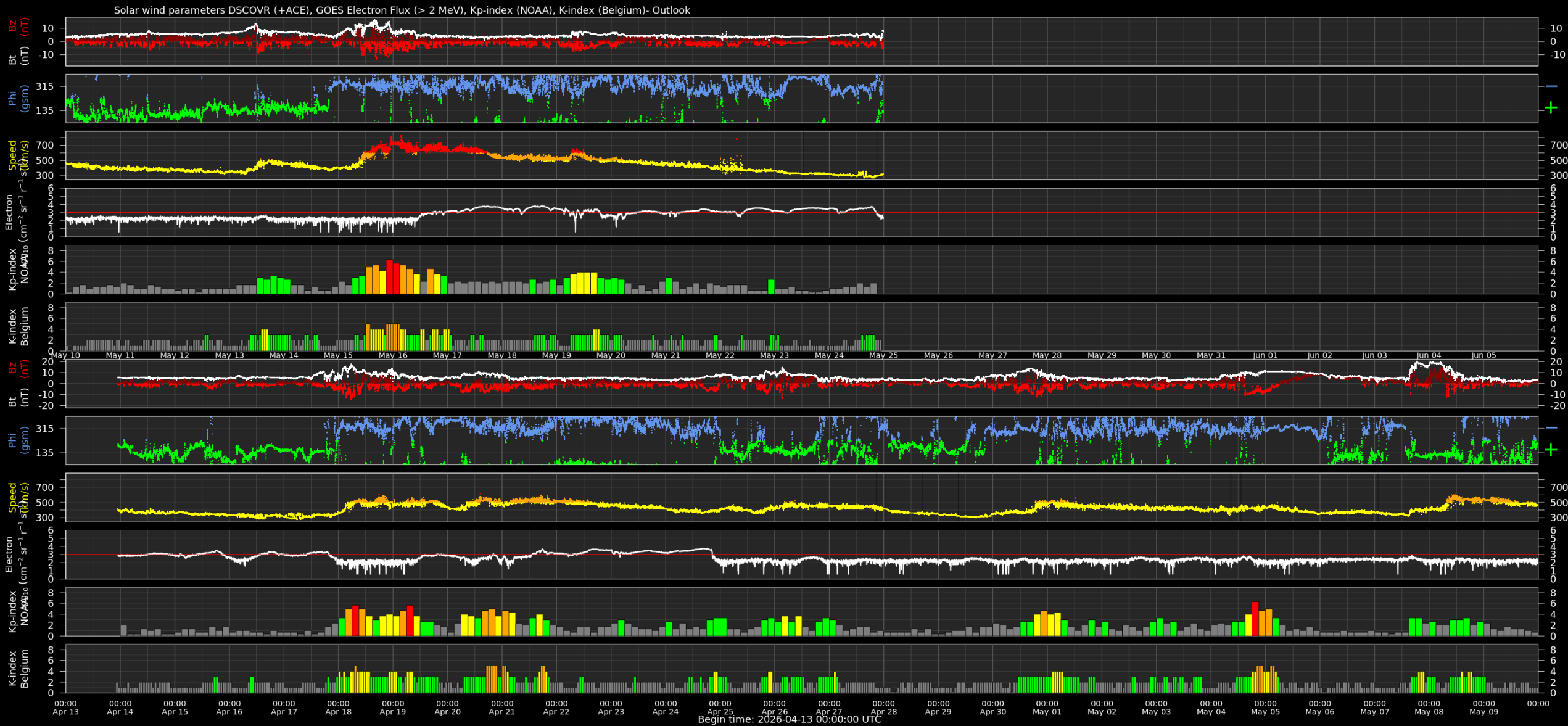


Observation date: 2026/05/24 20:05:00

Outlook: Solar F10.7cm radio flux



Outlook: Electron Flux at GEO Outlook



PECASUS



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Pegasus related events

ROB was the On Duty Centre (ODC) during this week.

11 ICAO advisories were issued for HF communication disturbances

SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at www.sidc.be



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