SIDC Space Weather Briefing

04 May 2025-11 May 2025

Katsiyannis Thanassis

& the SIDC forecaster team

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2025-05-04 12:00 to 2025-05-11 23:59

Active regions	SIDC 469 (NOAA AR 4079), SIDC 492 (NOAA AR 4082)
Flares	# C-class flare: 58 # M-class flare: 0 # X-class flare: 0
Coronal Holes	SIDC 111, SIDC 101
CMEs	No (partial) halo CME

Proton flux	Background levels
Electron flux	Above 1000 pfu until 9 May (peak 16000 pfu 8 May)

Solar wind and geomagnetic conditions

ICMEs	Glancing blow (9 May)
Solar wind conditions	|B|: 0.69 - 12.43 nT //Bz: -9.51 nT to 9.9 nT //Speed: 350 – 800 km/s
Geomagnetic conditions	max KBel: 5.0, max Kp(NOAA): 4.67, Minor Storm conditions

All Quiet Alert: NOT QUIET

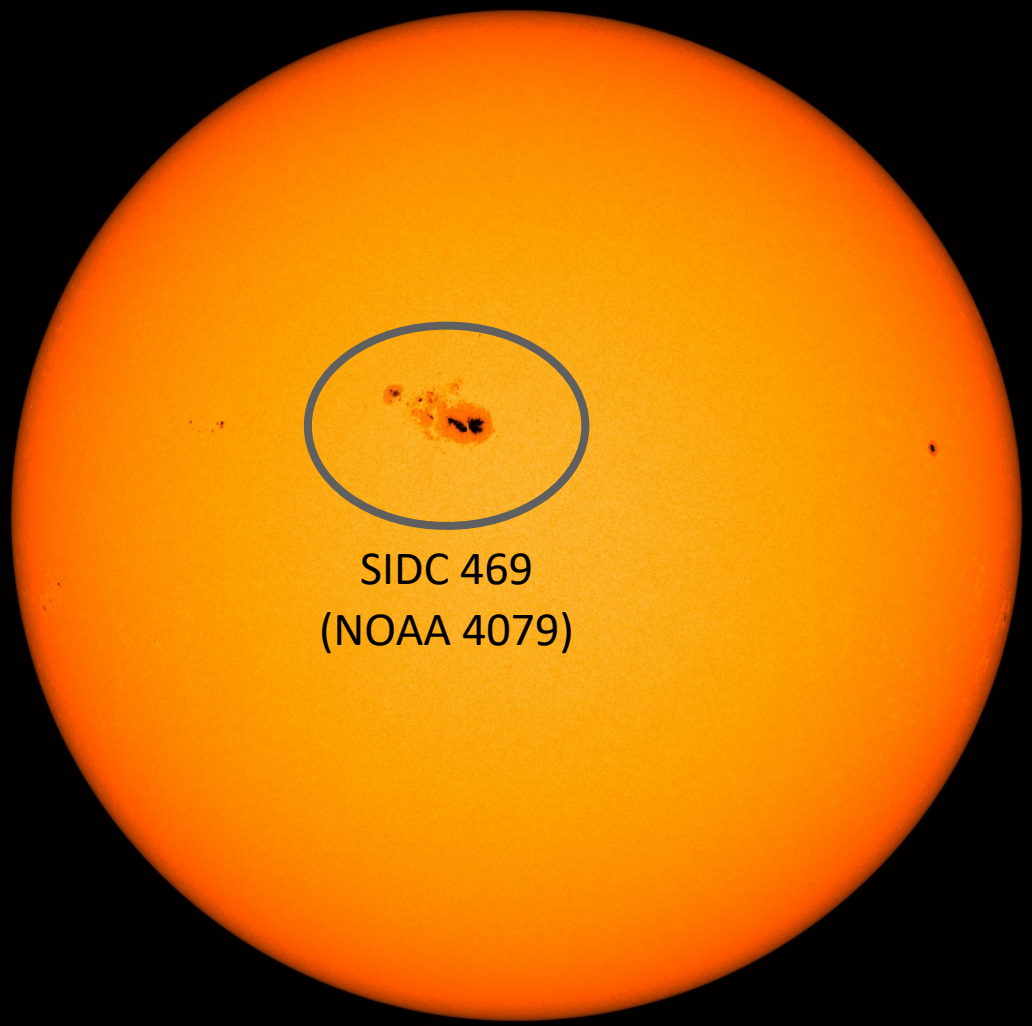
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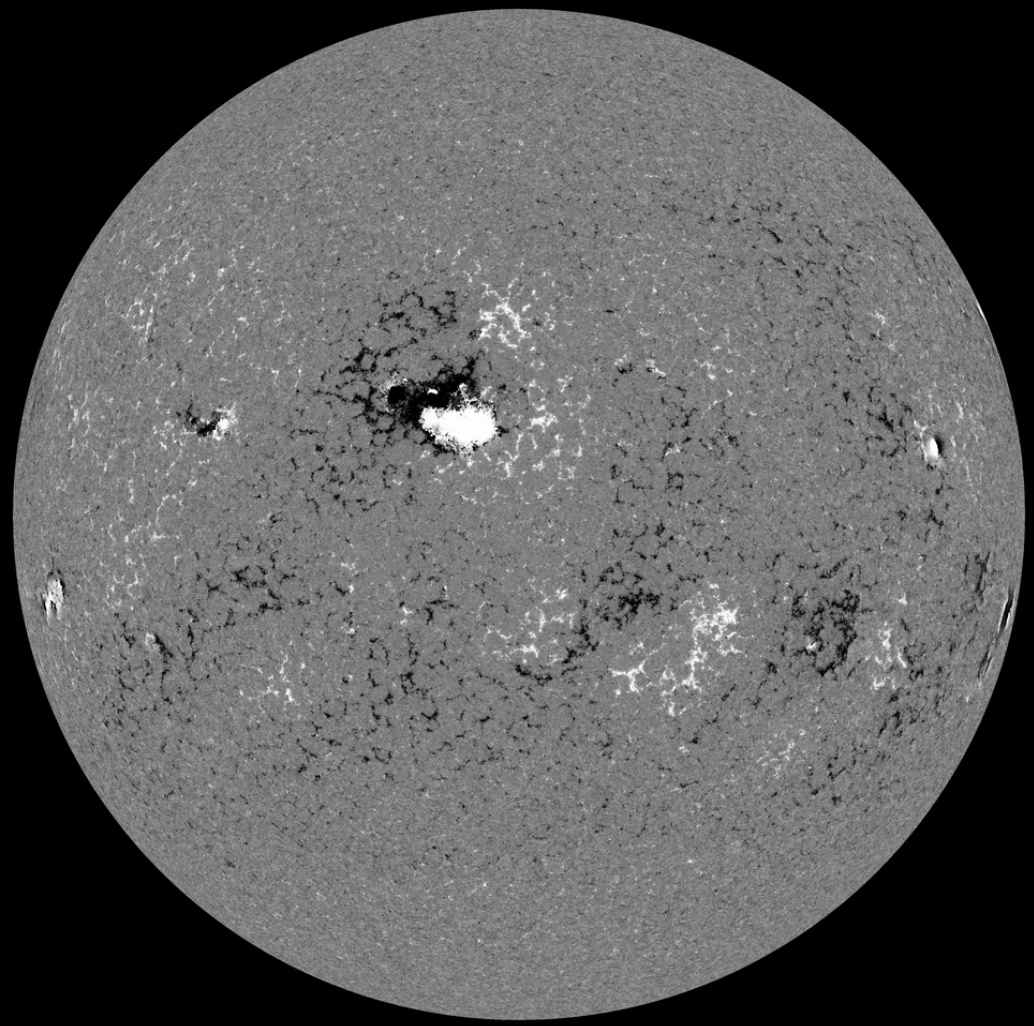
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Solar active regions

SDO/HMI White Light 2025-05-04

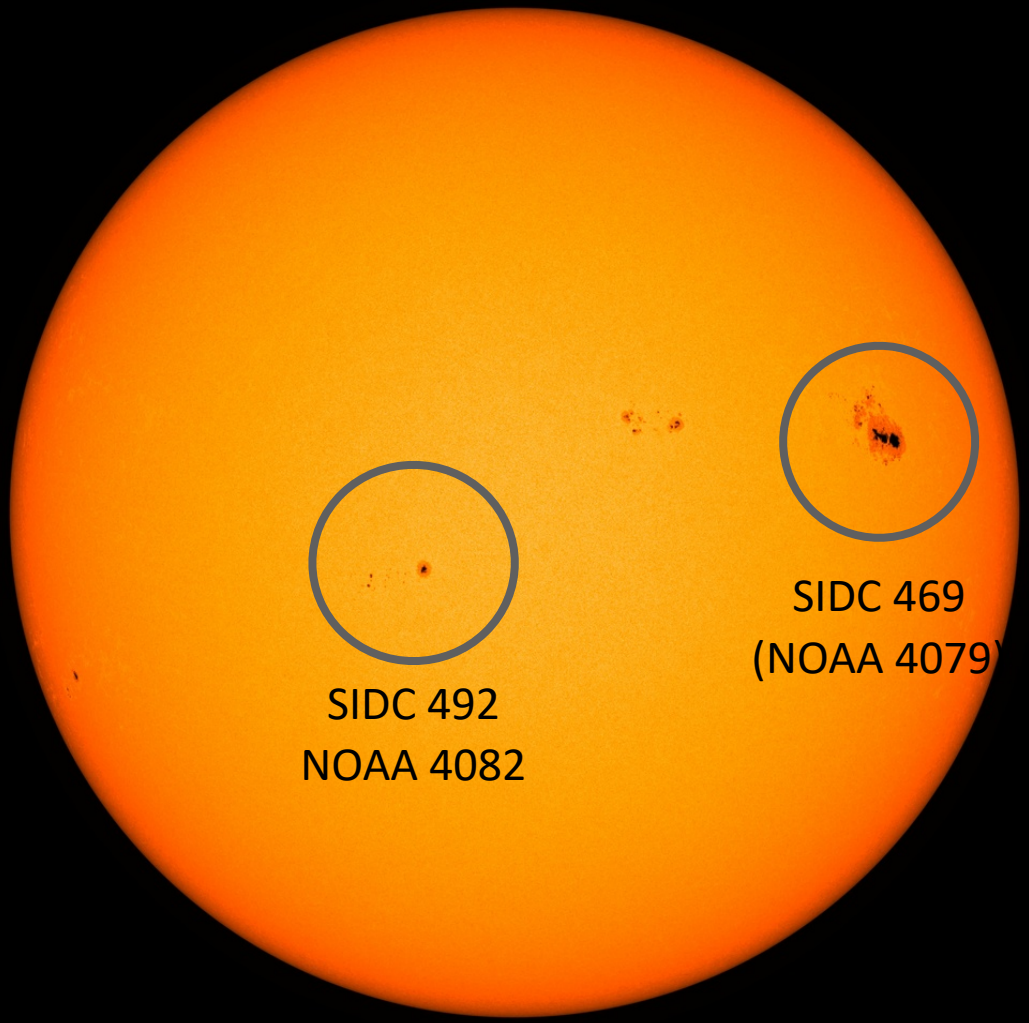


SDO/HMI Magnetogram 2025-05-04

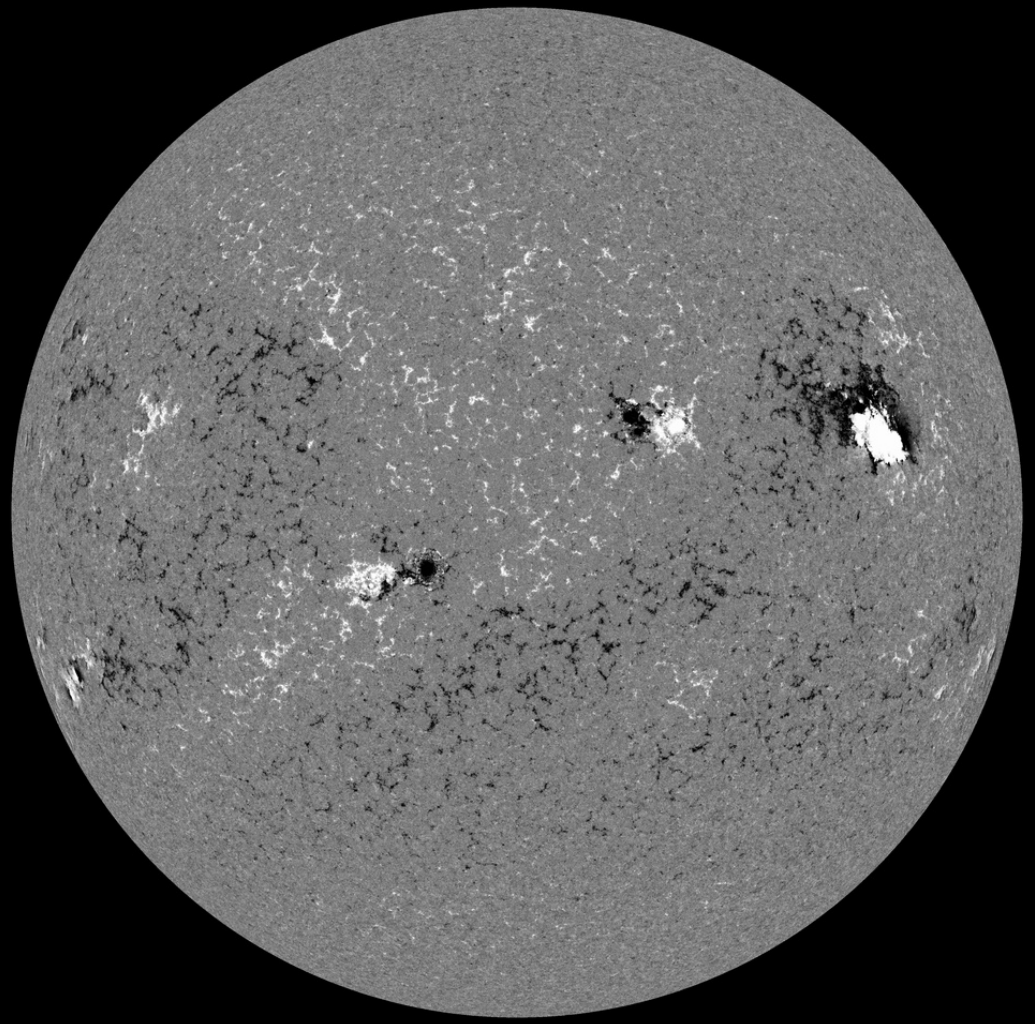


Solar active regions

SDO/HMI White Light 2025-05-08

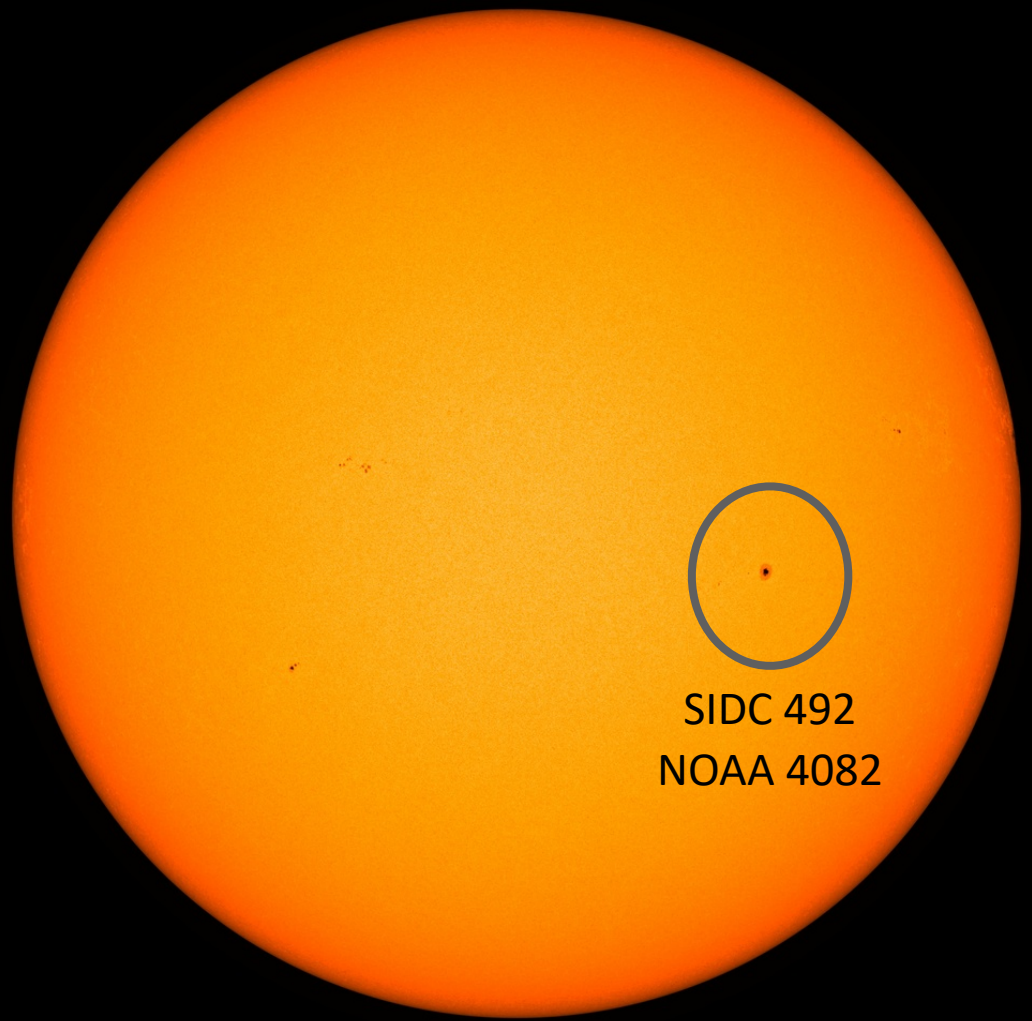


SDO/HMI Magnetogram 2025-05-08

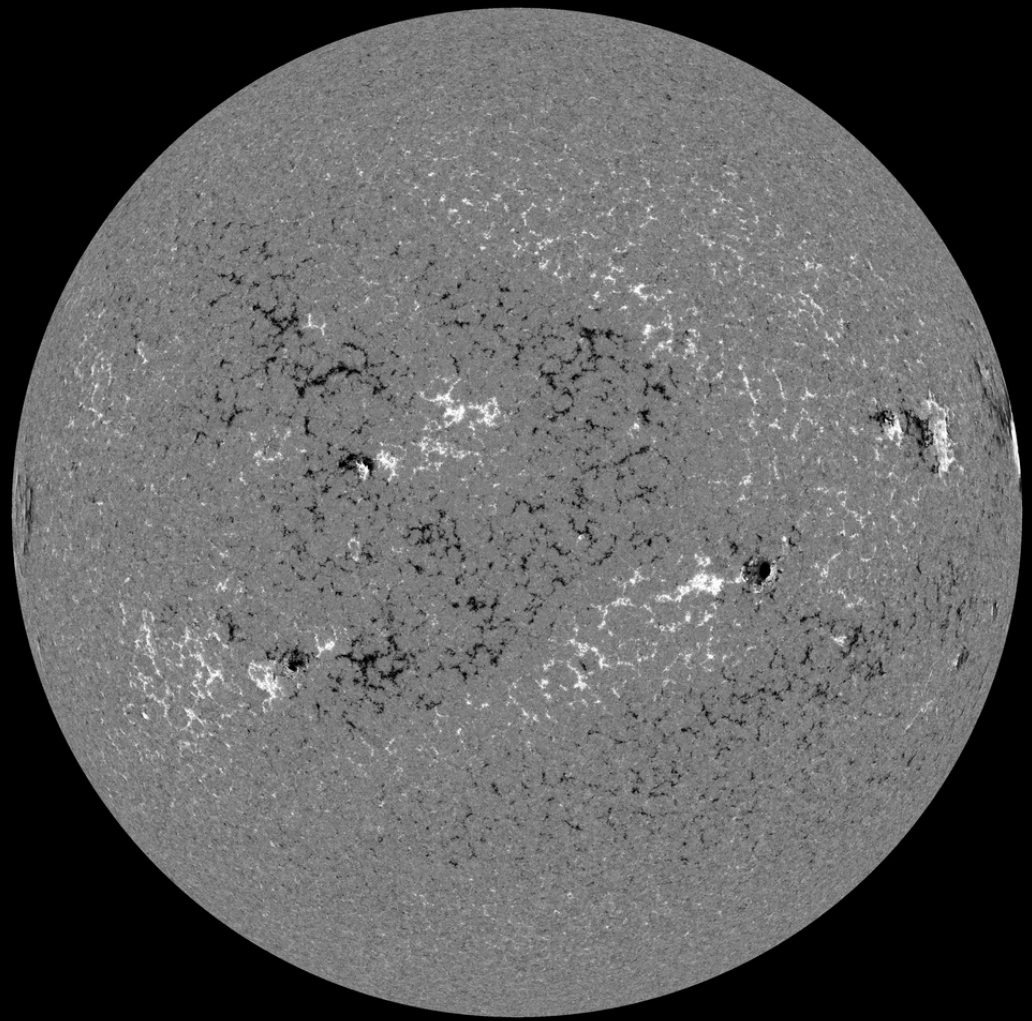


Solar active regions

SDO/HMI White Light 2025-05-11

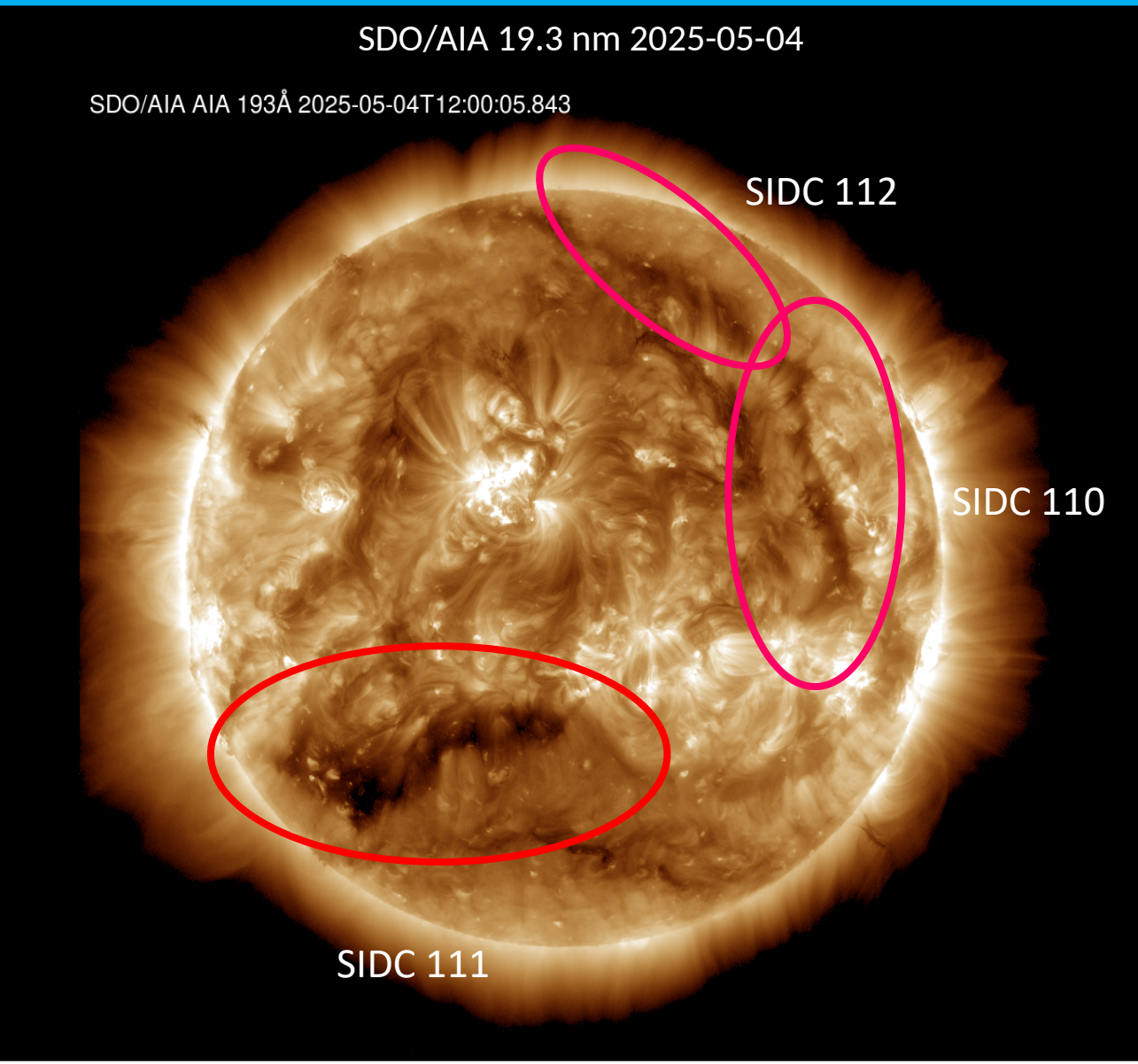


SDO/HMI Magnetogram 2025-05-11

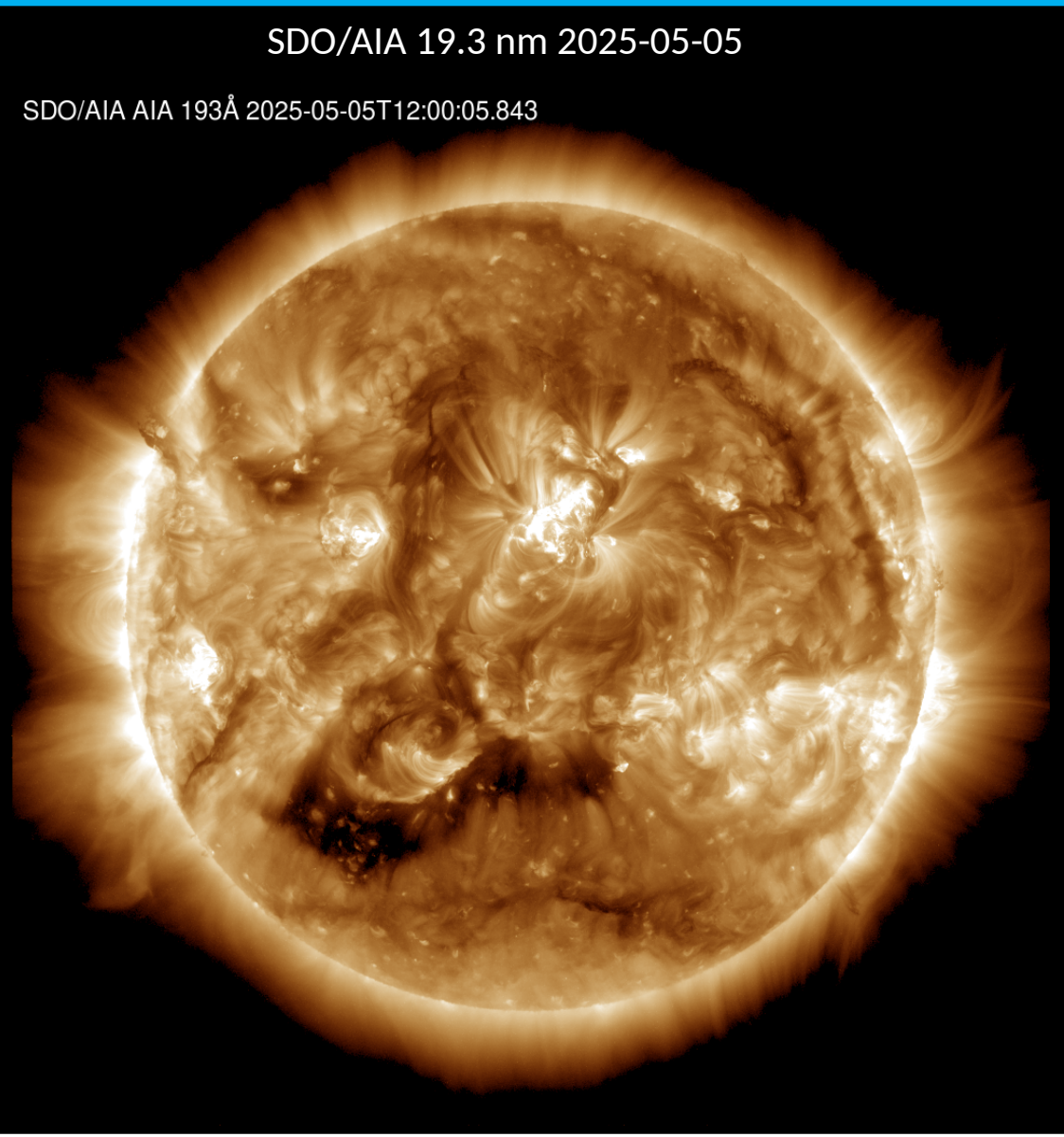


Coronal holes

SDO/AIA 19.3 nm 2025-05-04

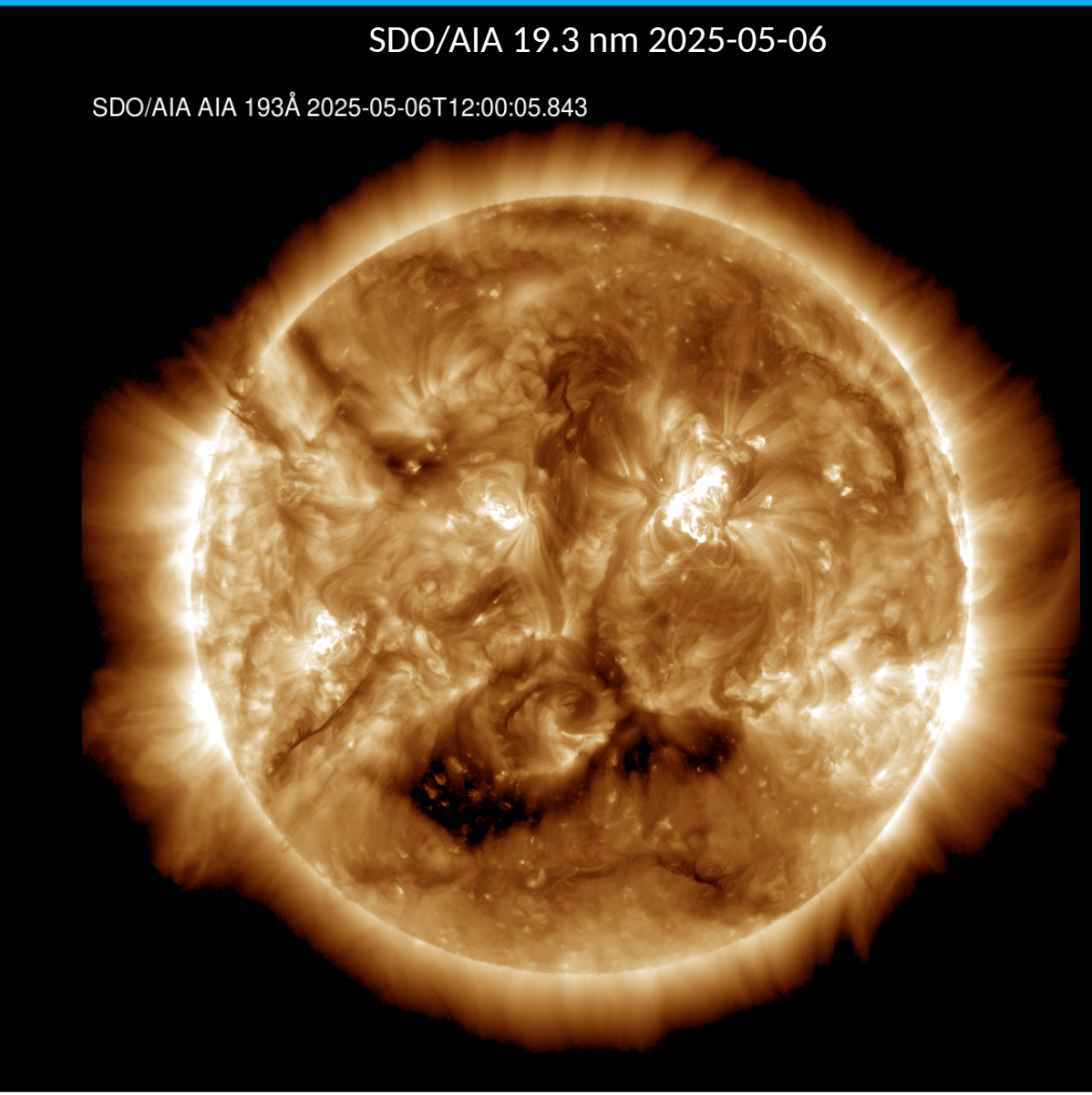


SDO/AIA 19.3 nm 2025-05-05

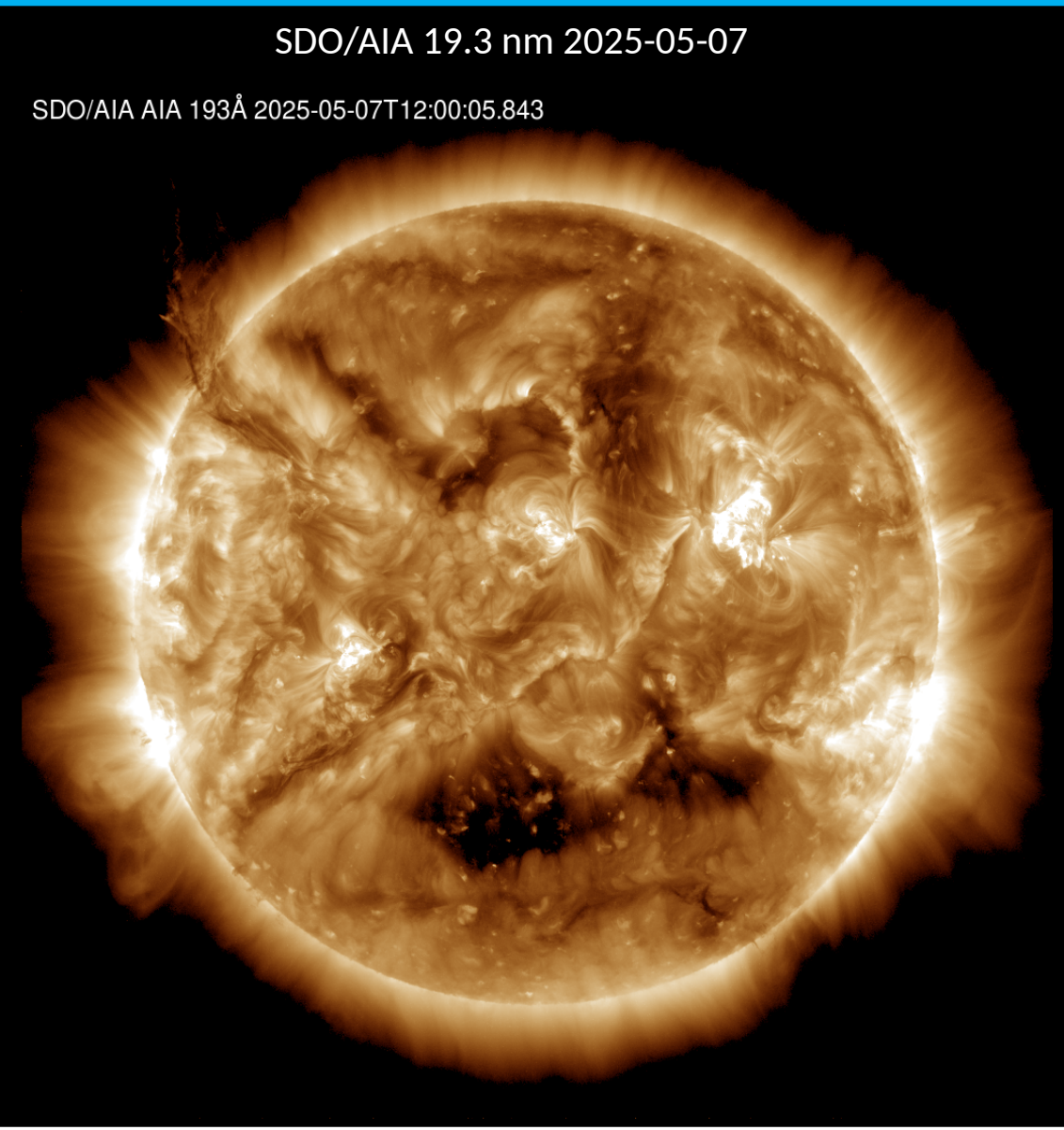


Coronal holes

SDO/AIA 19.3 nm 2025-05-06

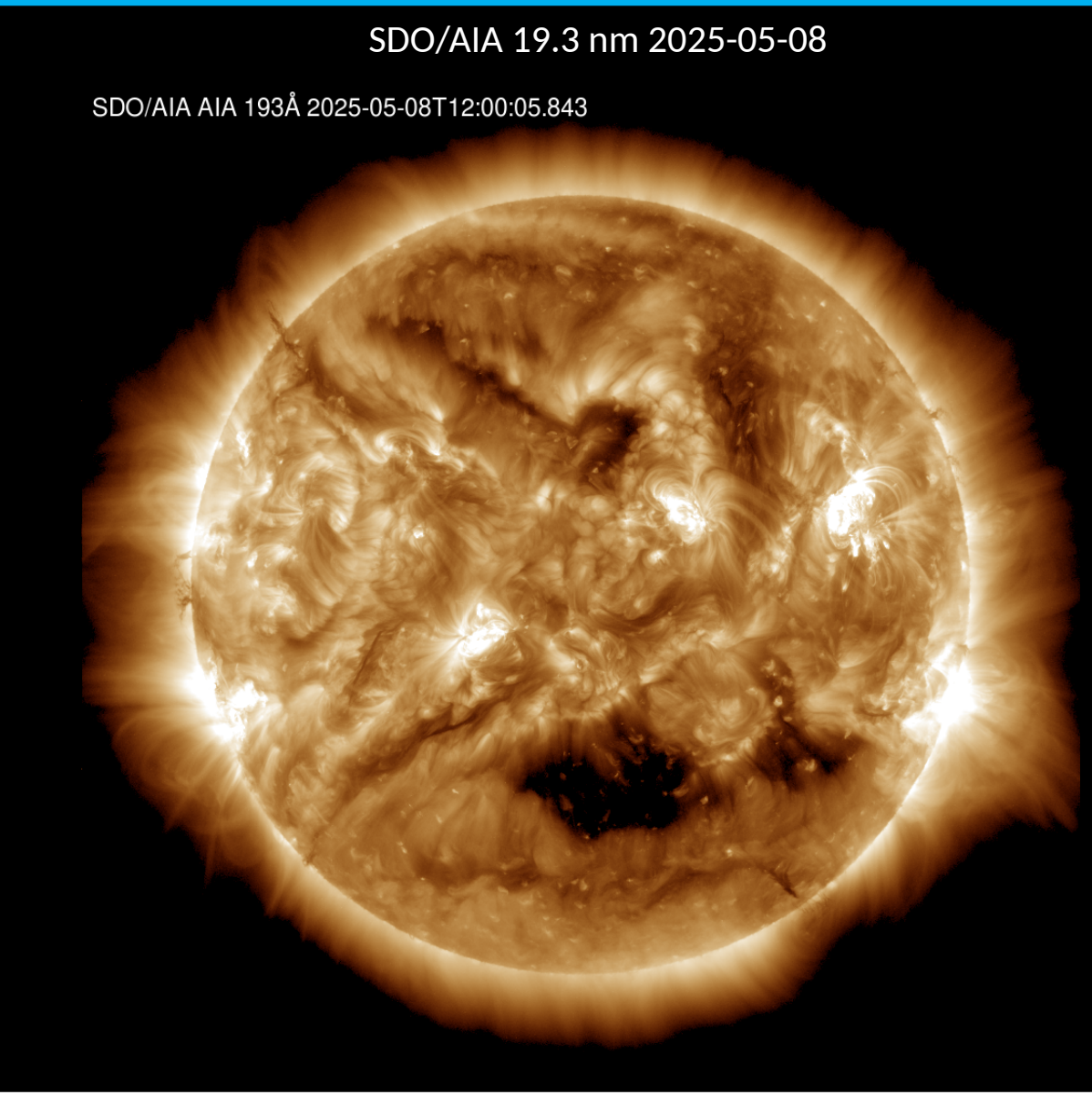


SDO/AIA 19.3 nm 2025-05-07

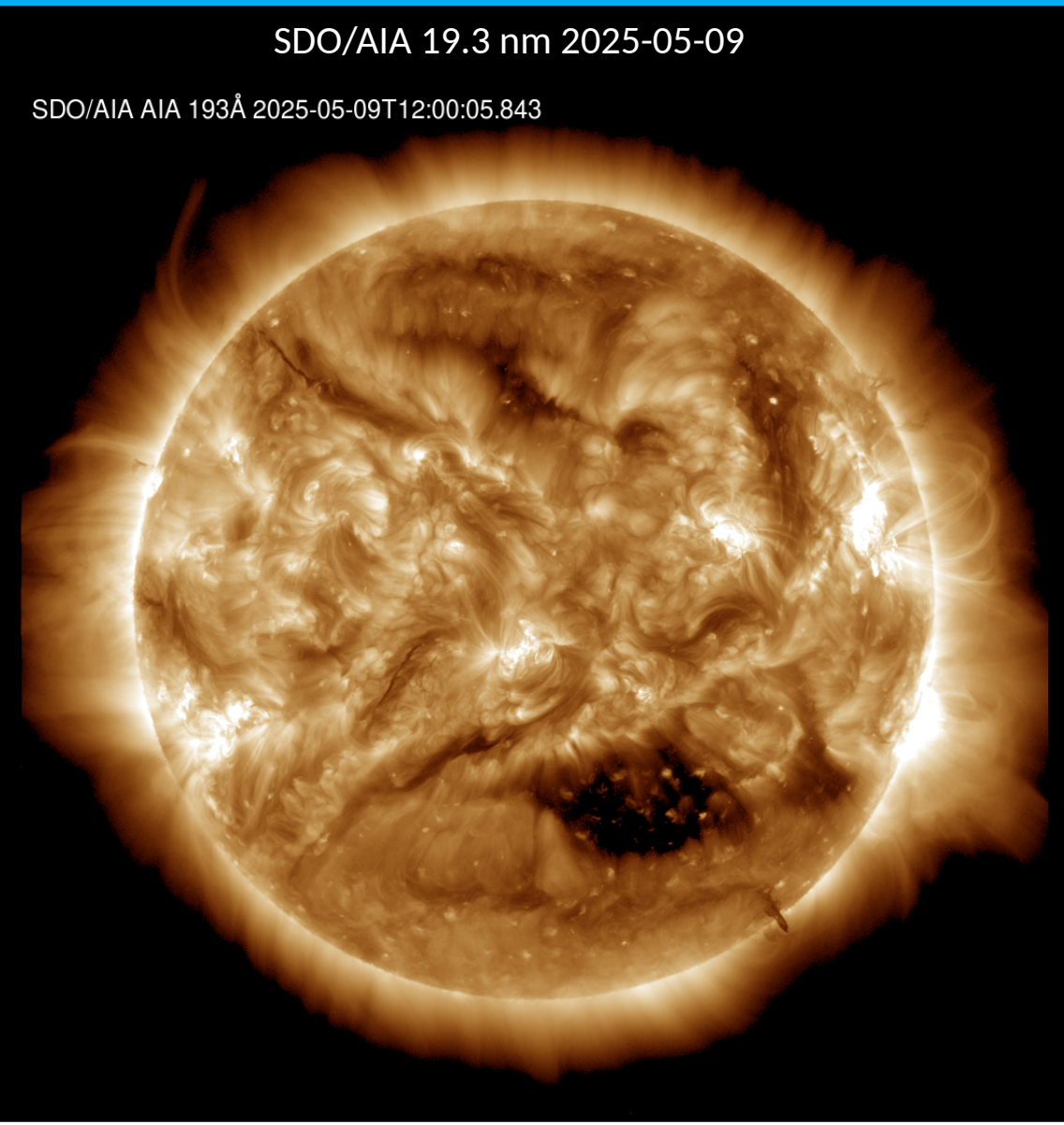


Coronal holes

SDO/AIA 19.3 nm 2025-05-08

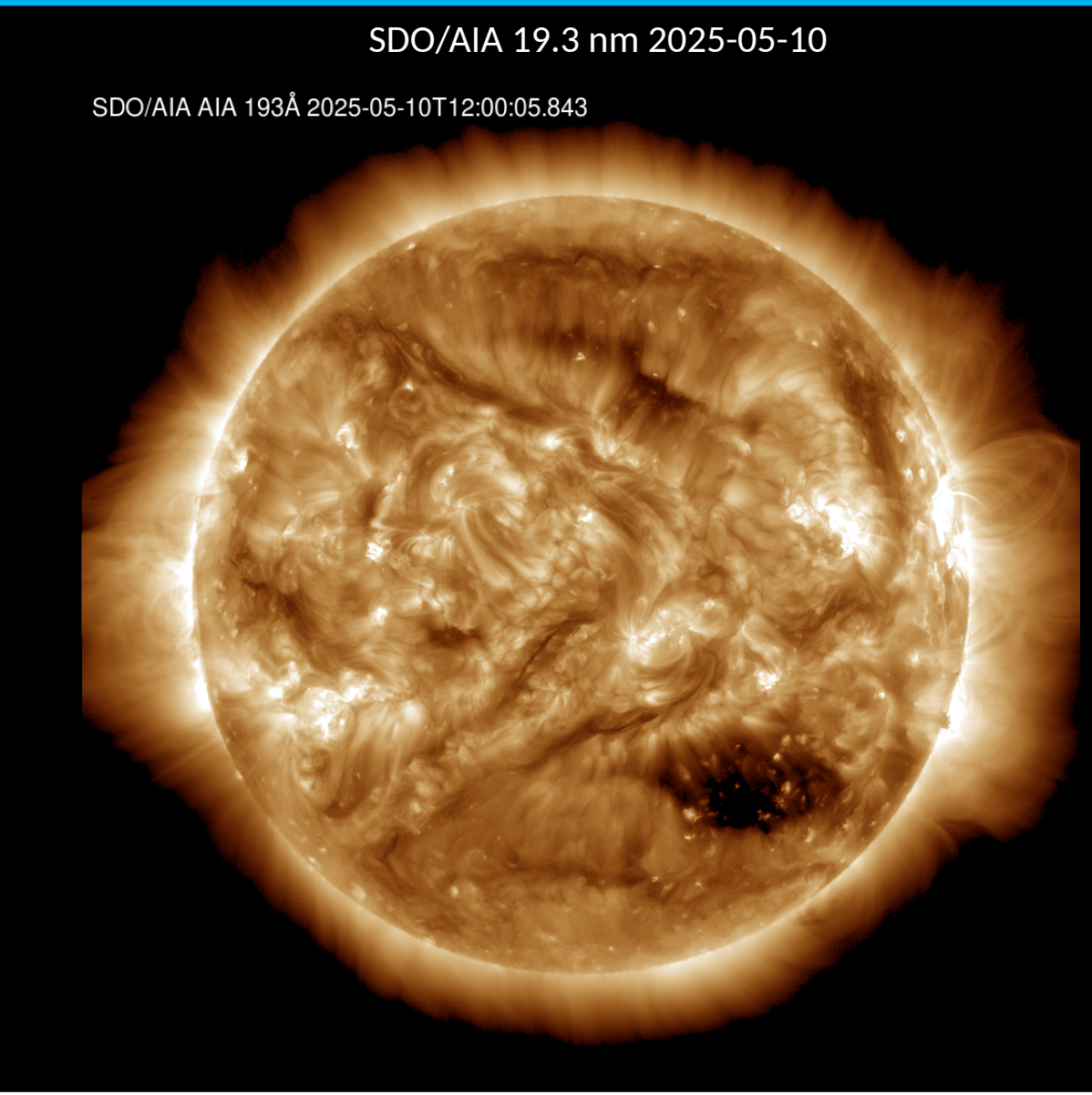


SDO/AIA 19.3 nm 2025-05-09

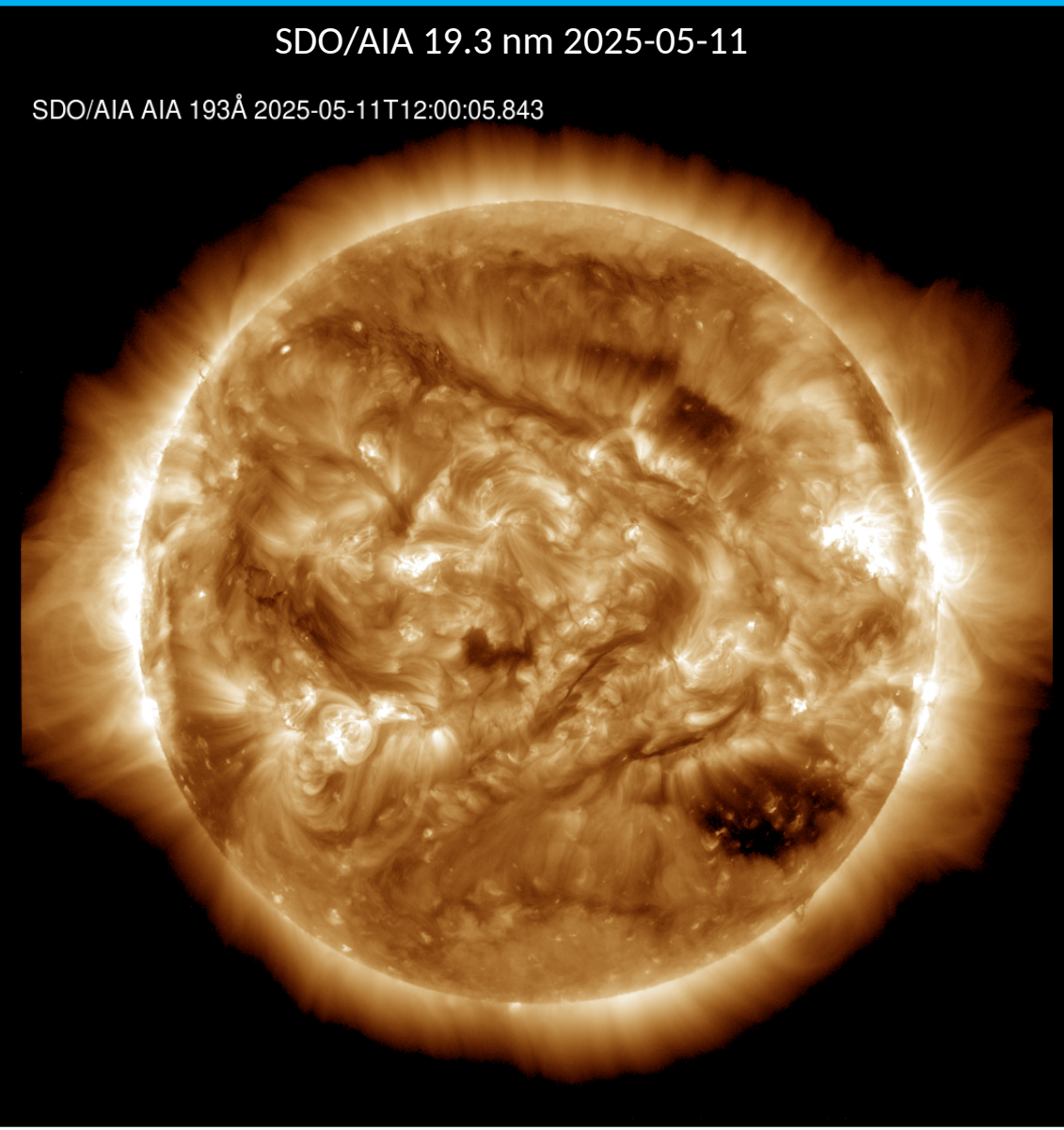


Coronal holes

SDO/AIA 19.3 nm 2025-05-10

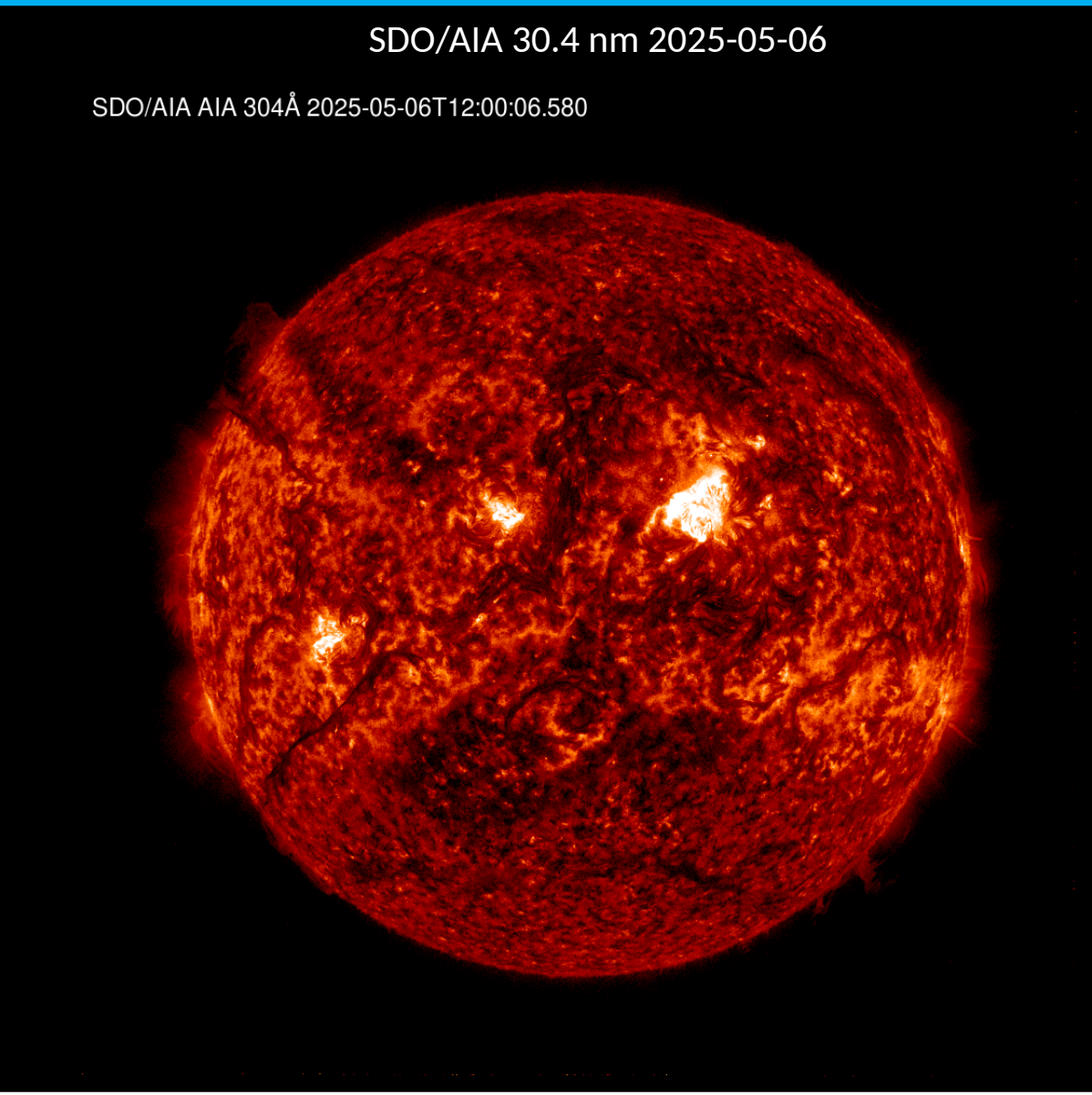


SDO/AIA 19.3 nm 2025-05-11

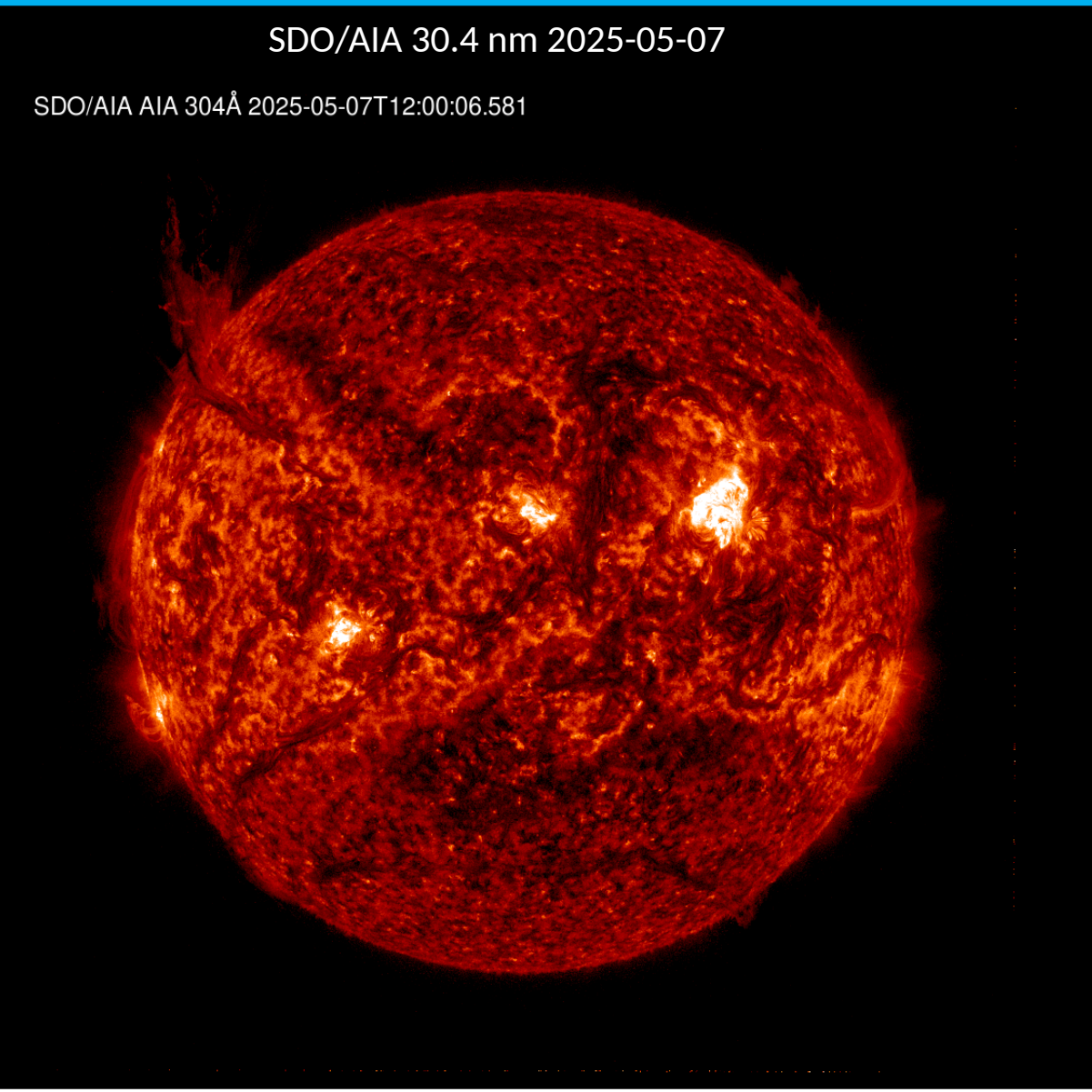


Filaments

SDO/AIA 30.4 nm 2025-05-06

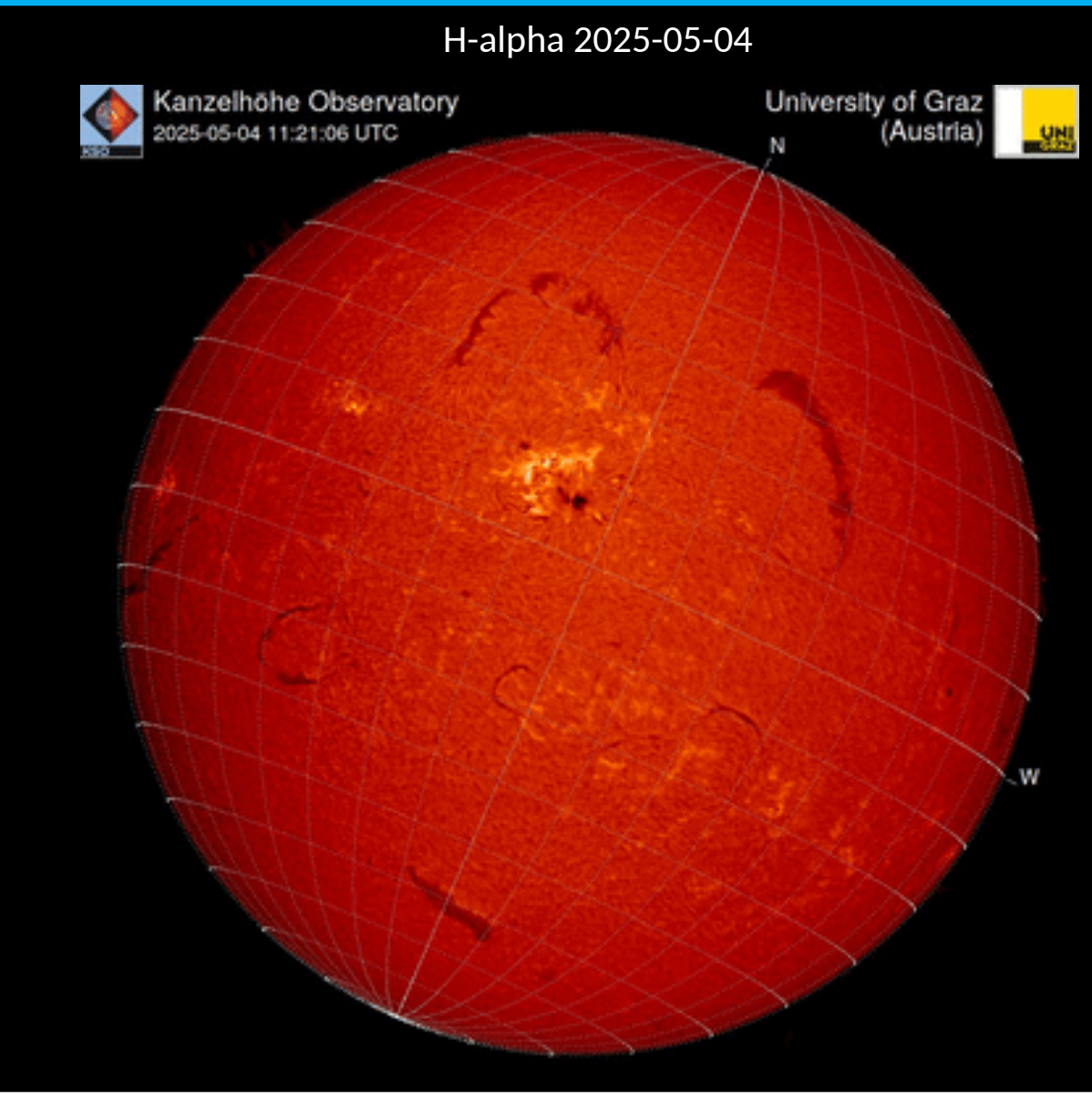


SDO/AIA 30.4 nm 2025-05-07

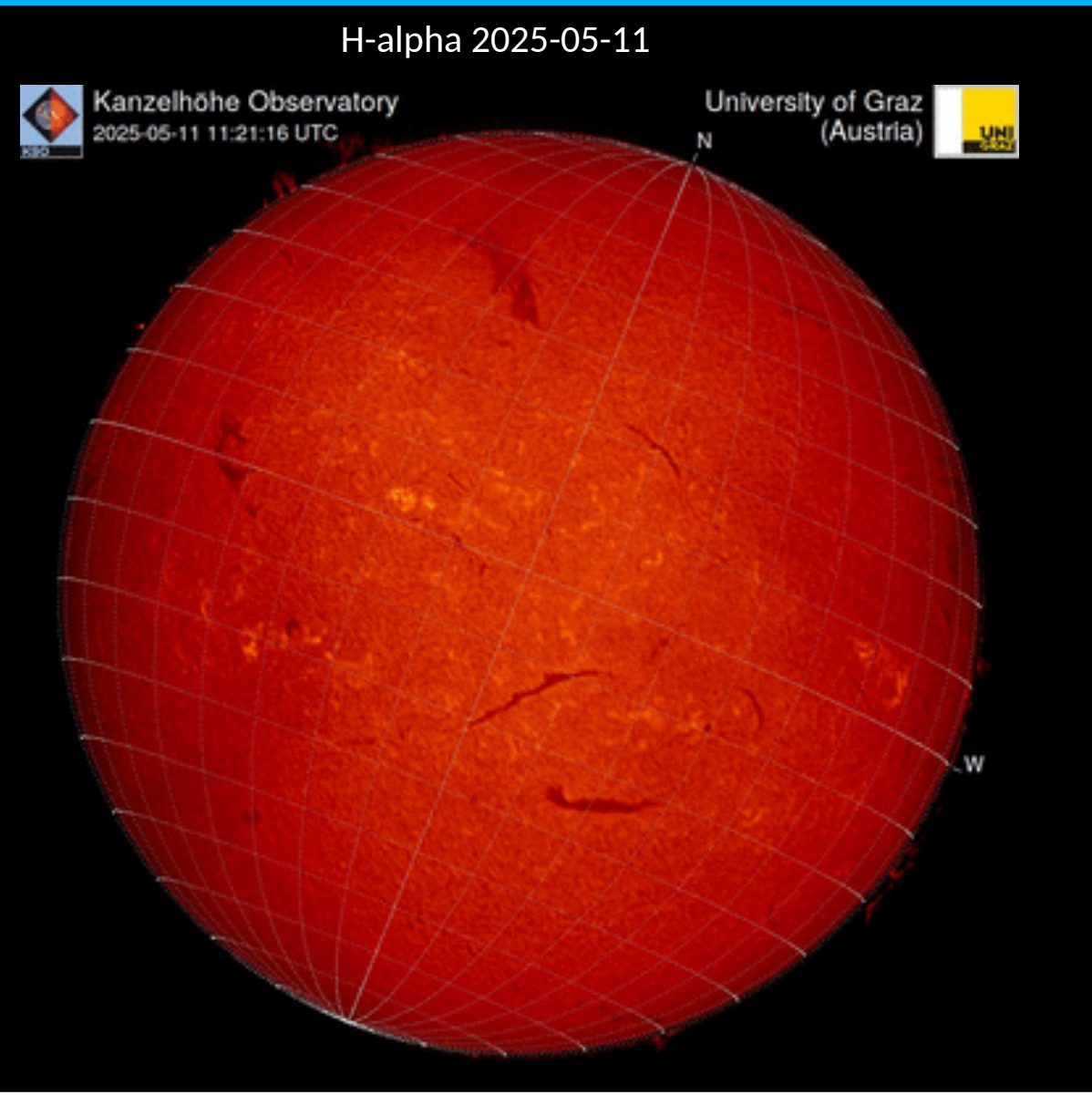


Filaments & Filament eruptions

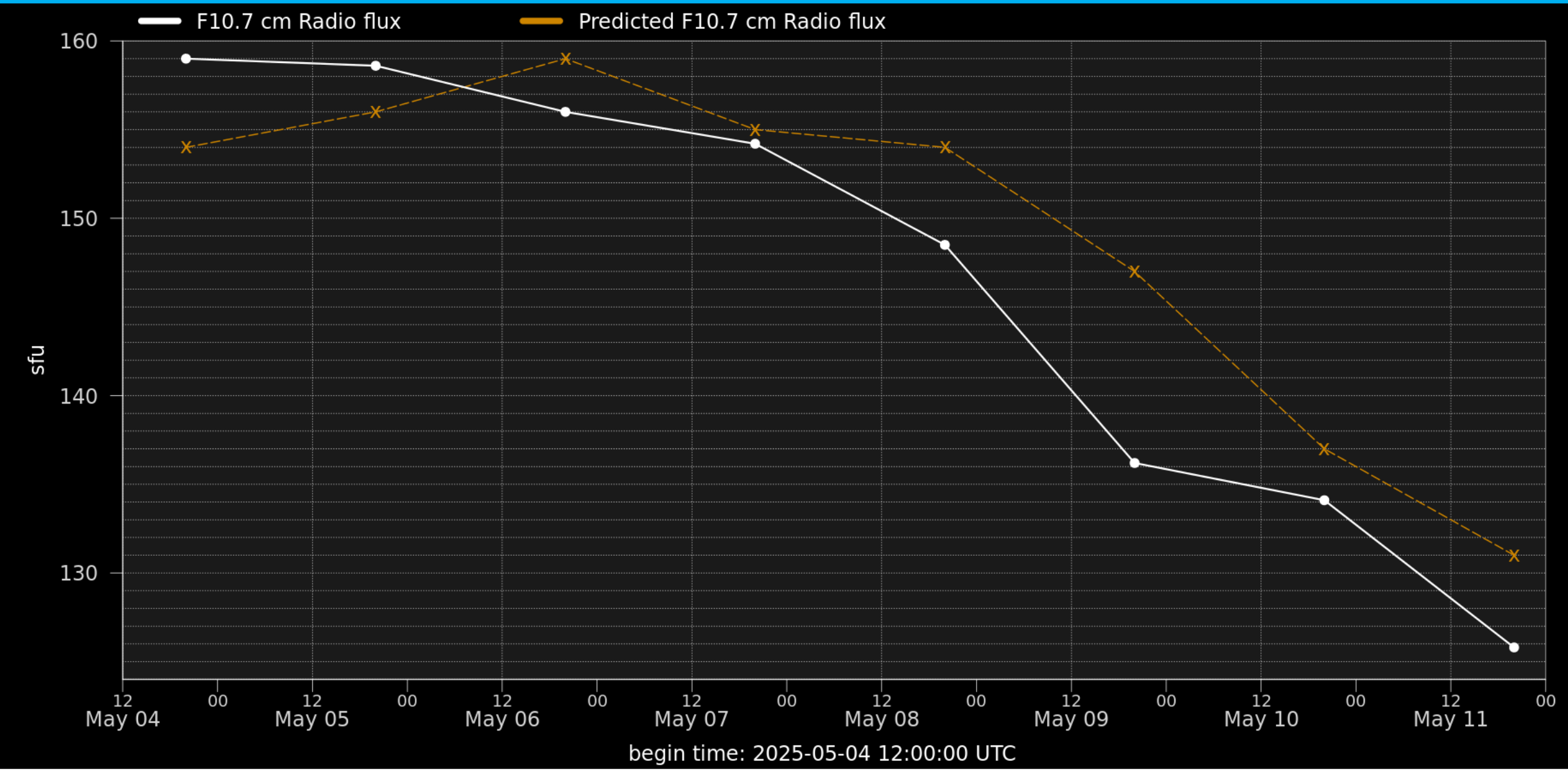
H-alpha 2025-05-04



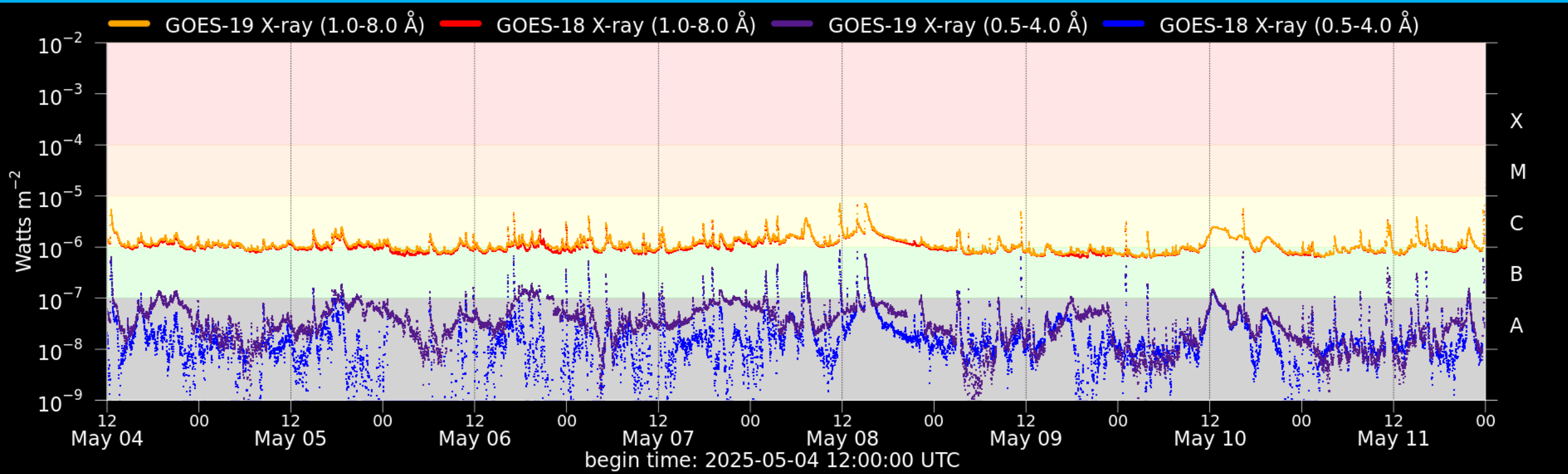
H-alpha 2025-05-11



Solar F10.7cm radio flux



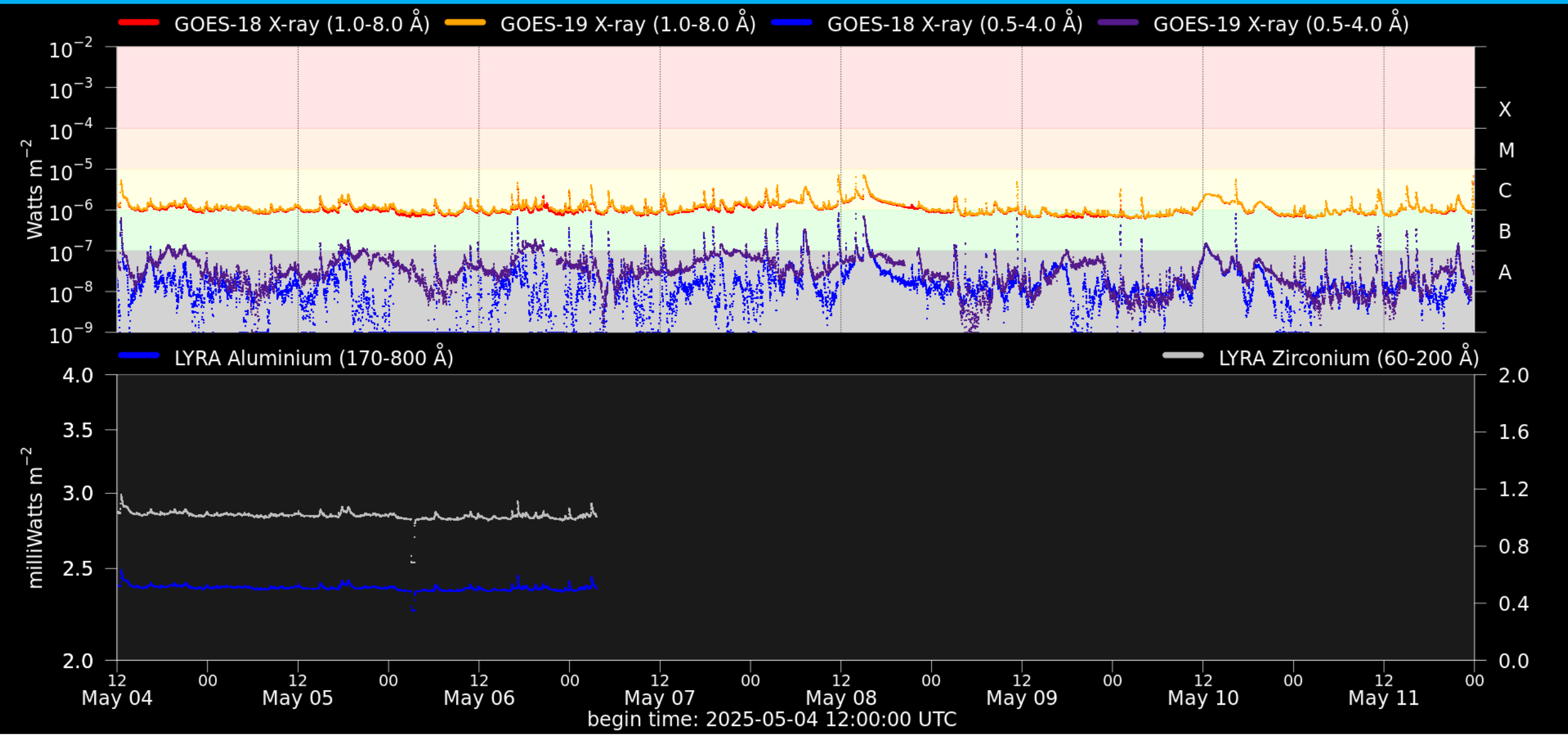
Flaring activity



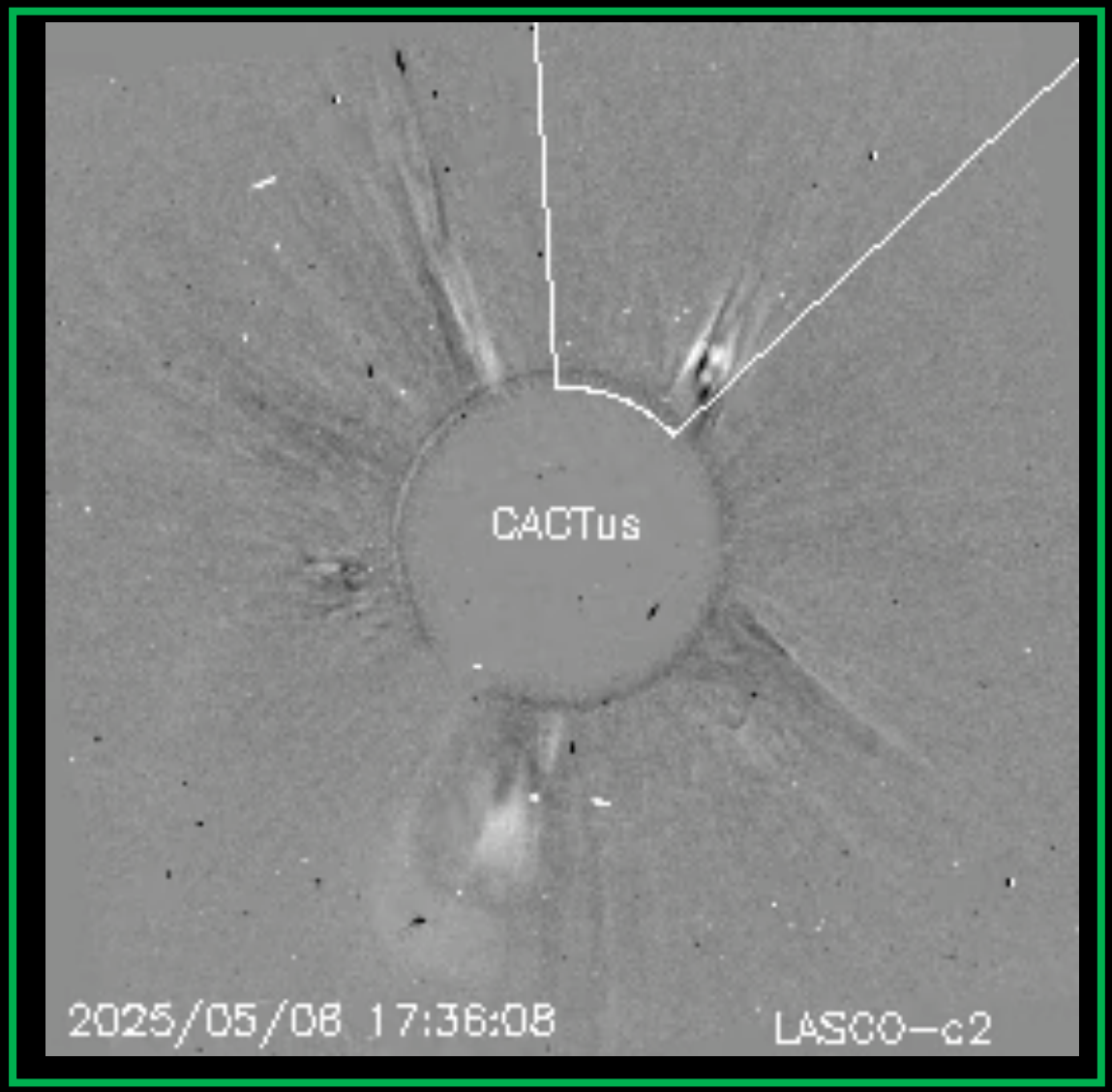
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

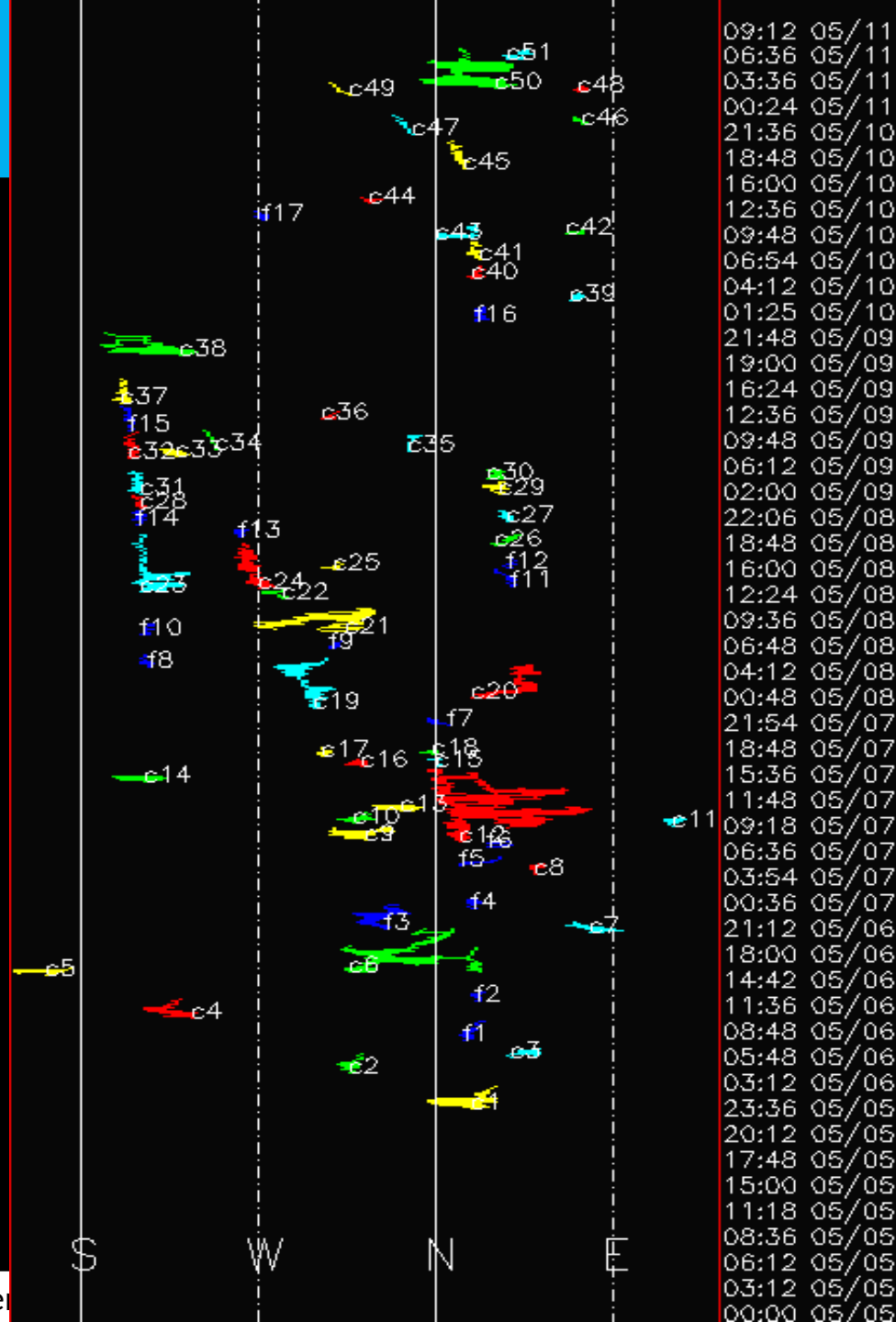
Issue date	2025-05-04	2025-05-05	2025-05-06	2025-05-07	2025-05-08	2025-05-09	2025-05-10	2025-05-11
Probability (%)	99|55|05	99|53|10	99|40|05	99|60|10	99|47|10	99|28|05	93|10|05	99|10|01
Observed (#)	03|00|00	05|00|00	14|00|00	11|00|00	08|00|00	04|00|00	09|00|00	04|00|00

Solar X-Ray and UV flux



Coronal Mass Ejections





Solar Wind and

Geomagnetic Activity

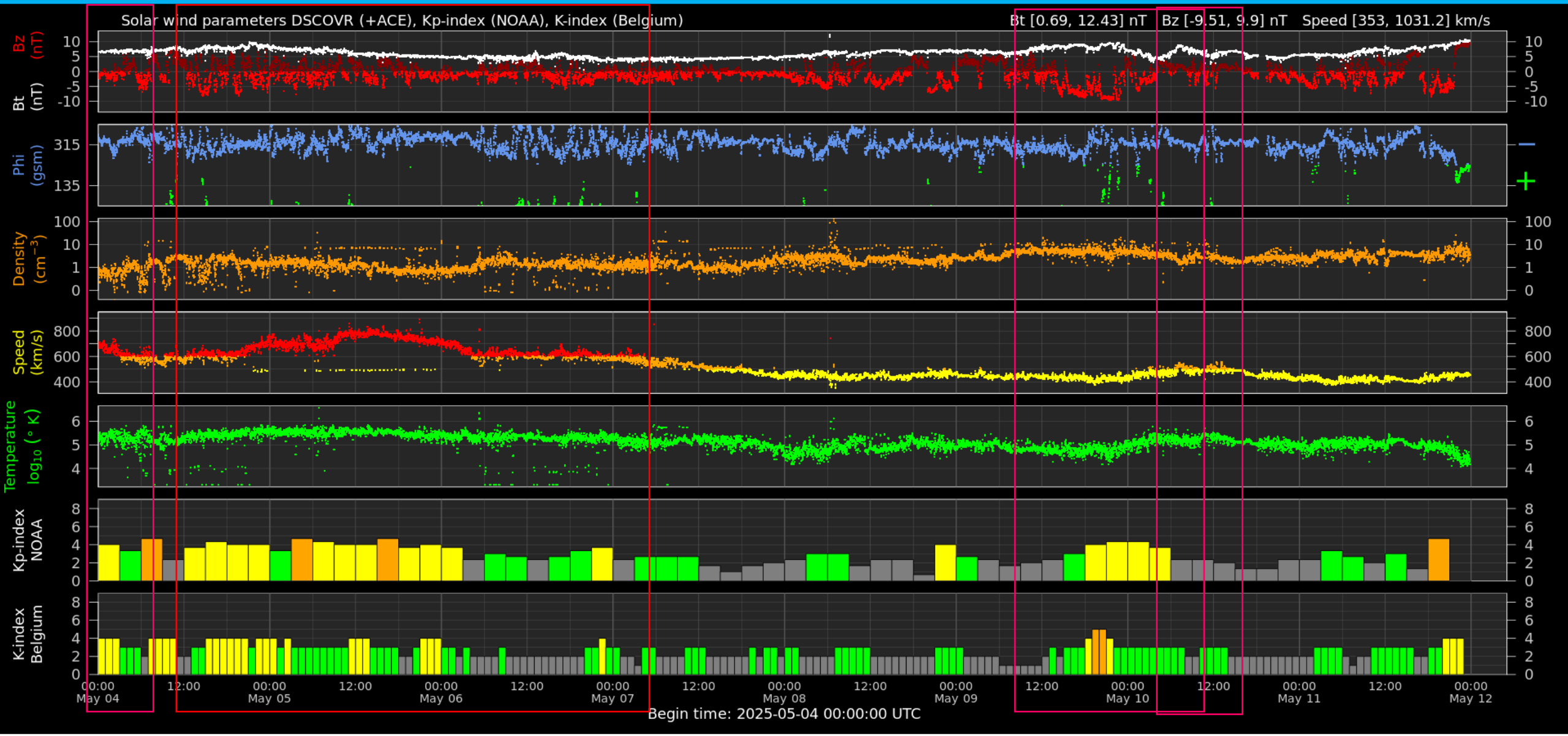


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Solar wind parameters & K-indices

CH 99 CH 109 & 110 6 May 18:00 111



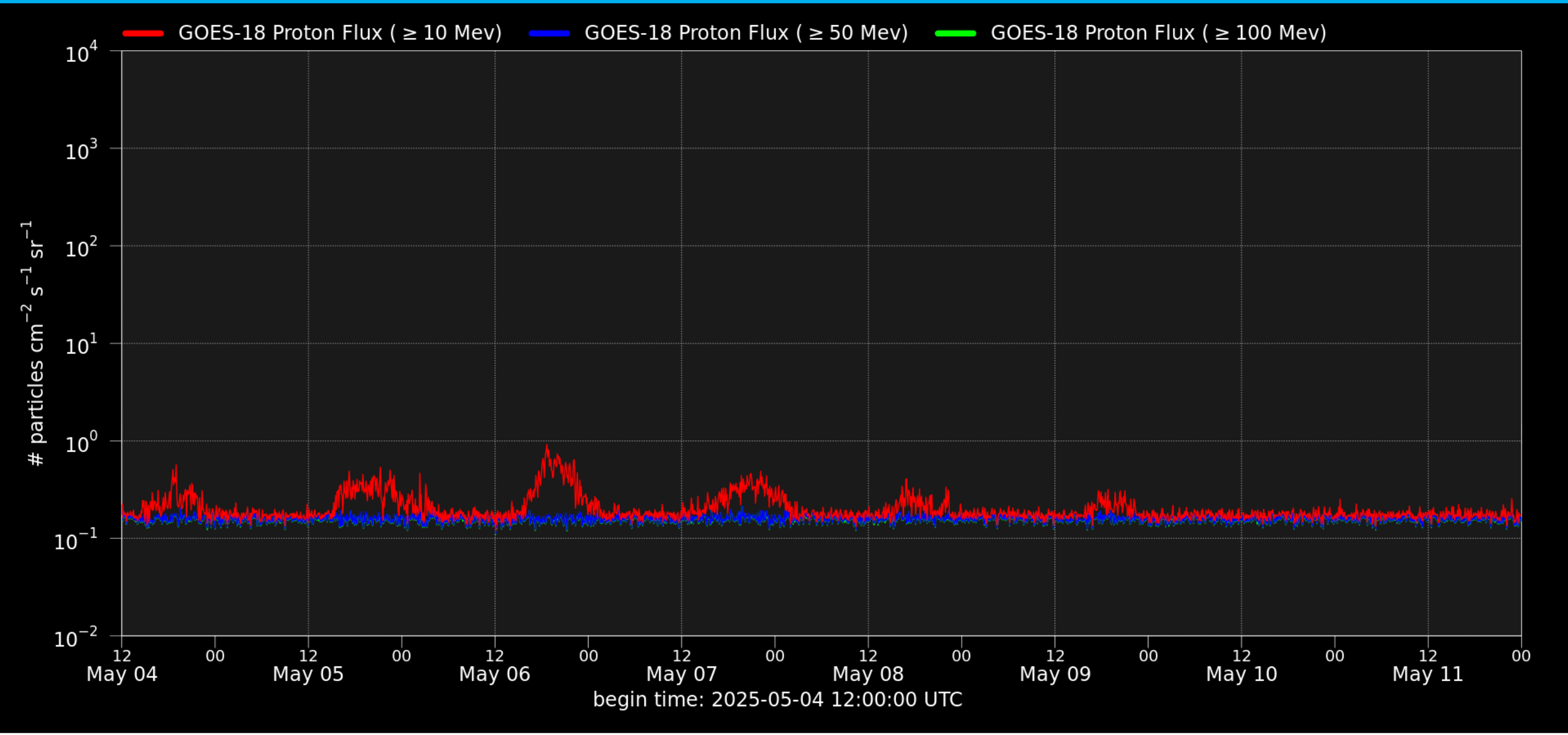
Energetic Particles



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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

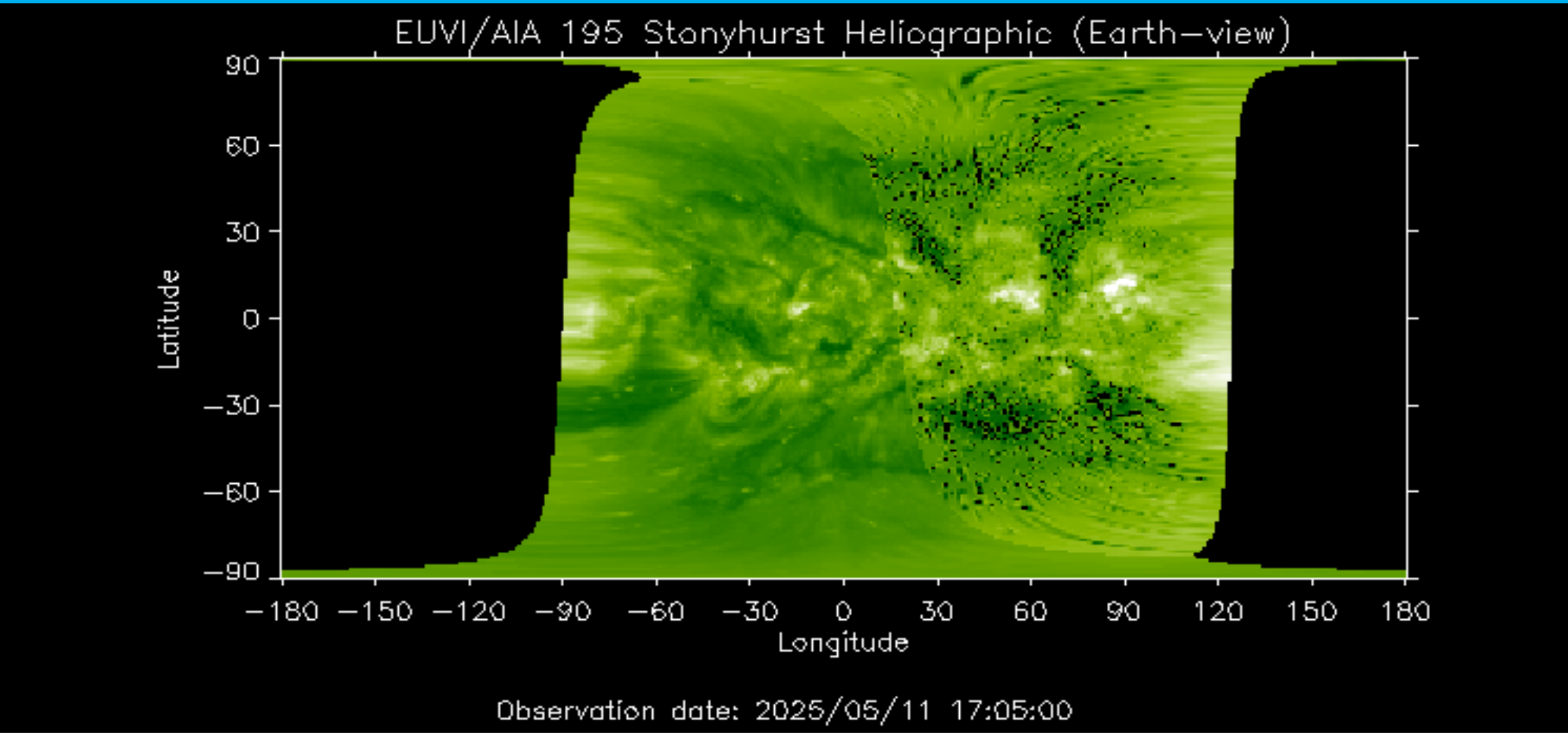


Outlook

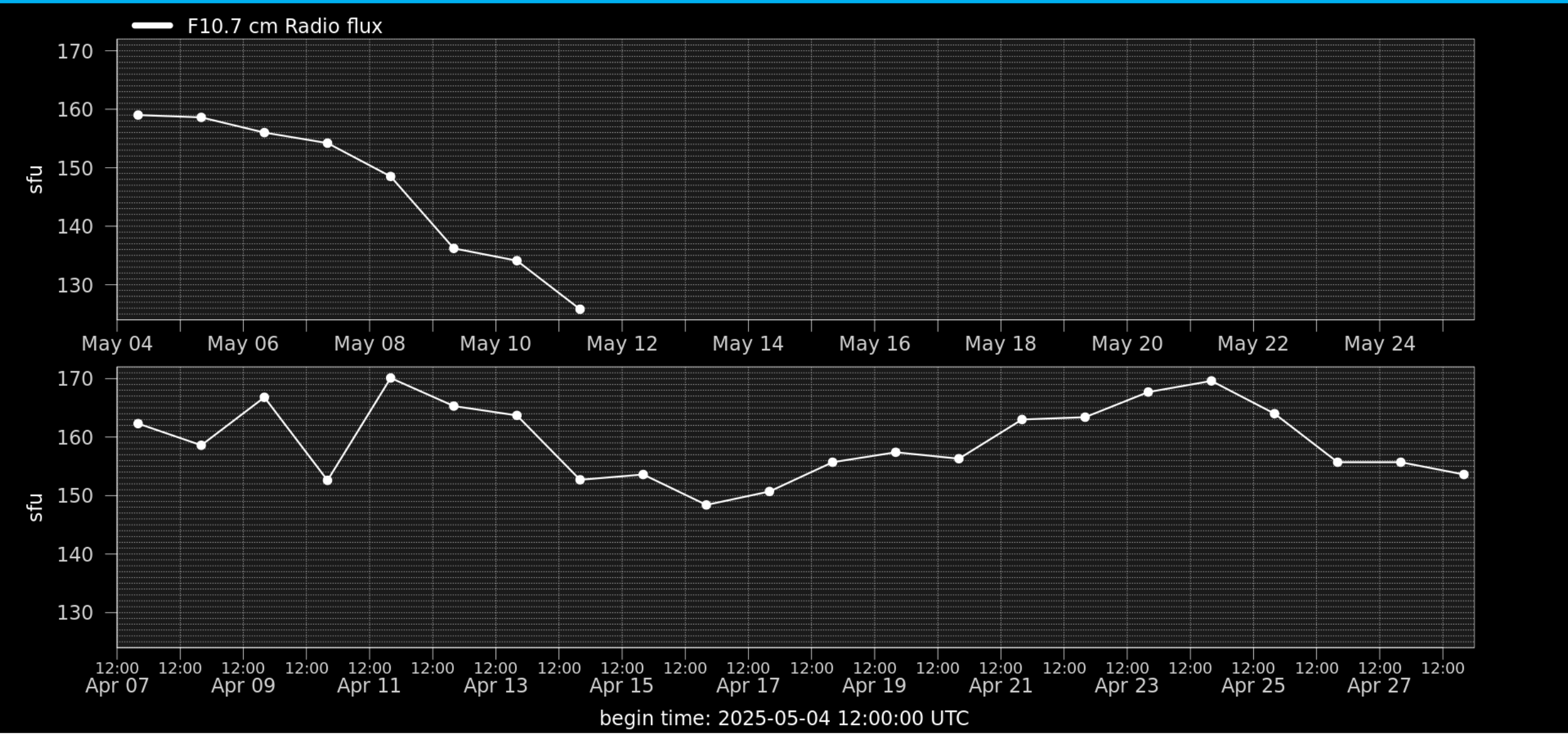
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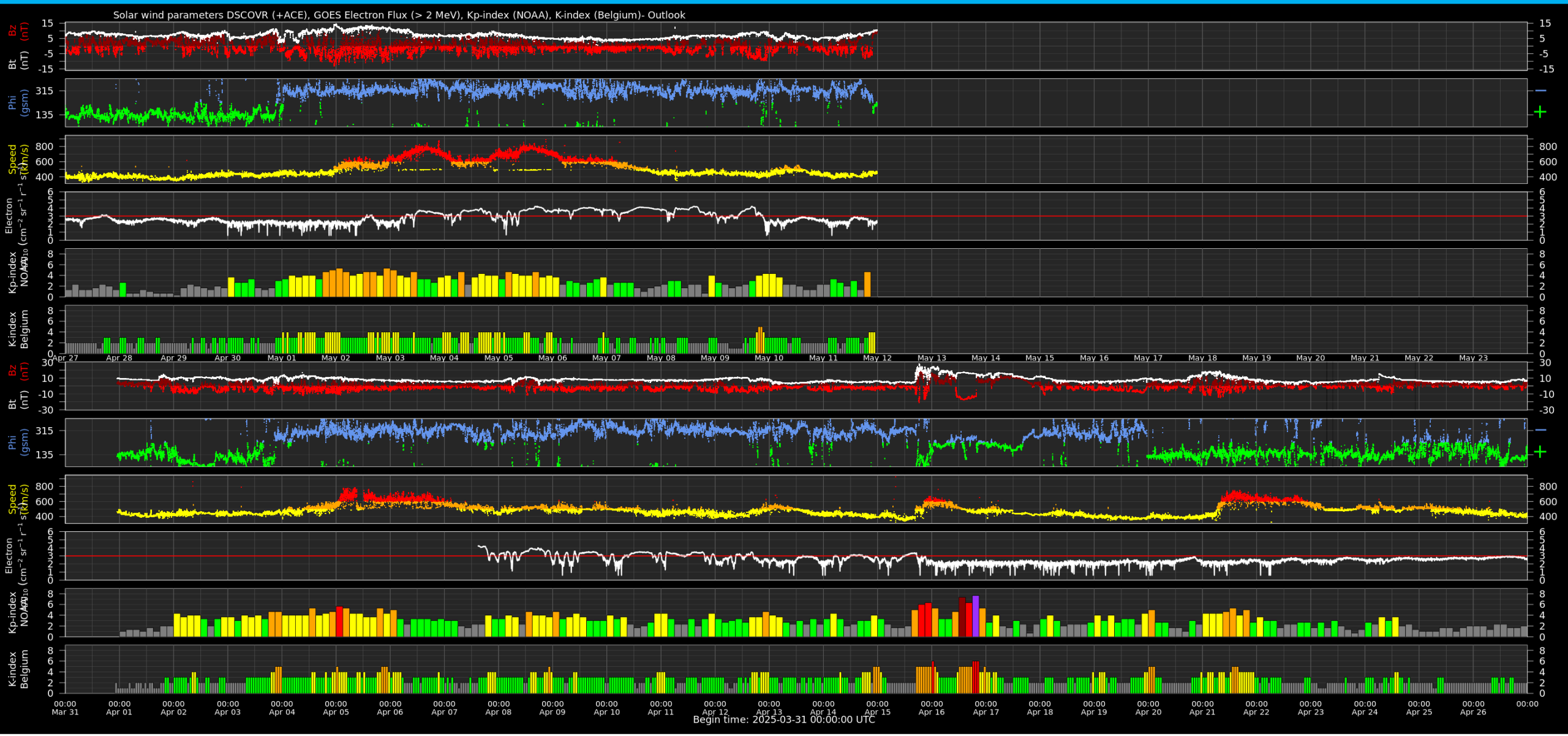
Outlook: Solar activity



Outlook: Solar F10.7cm radio flux



Outlook: Electron Flux at GEO Outlook



PECASUS

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Pecasus related events

No advisories

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