SIDC Space Weather Briefing

14 July 2025-20 July 2025

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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 2025-07-14 00:00 to 2025-07-20 23:59

Active regions	SIDC 559 (NOAA 4143), SIDC 562 (NOAA 4136)
Flares	# C-class flare: 32 # M-class flare: 0 # X-class flare: 0
Coronal Holes	SIDC CH 104(-), SIDC CH 116 (-)
CMEs	No Earth-directed

Proton flux	Background levels
Electron flux	Above 1000 pfu alert threshold, max 14000 pfu 20 Jul 16:40 UTC

Solar wind and geomagnetic conditions

ICMEs	None arrived
Solar wind conditions	|B|: 1.96 - 11.28 nT //Bz: -9.65 nT to 8.92 nT //Speed: 330 - 800km/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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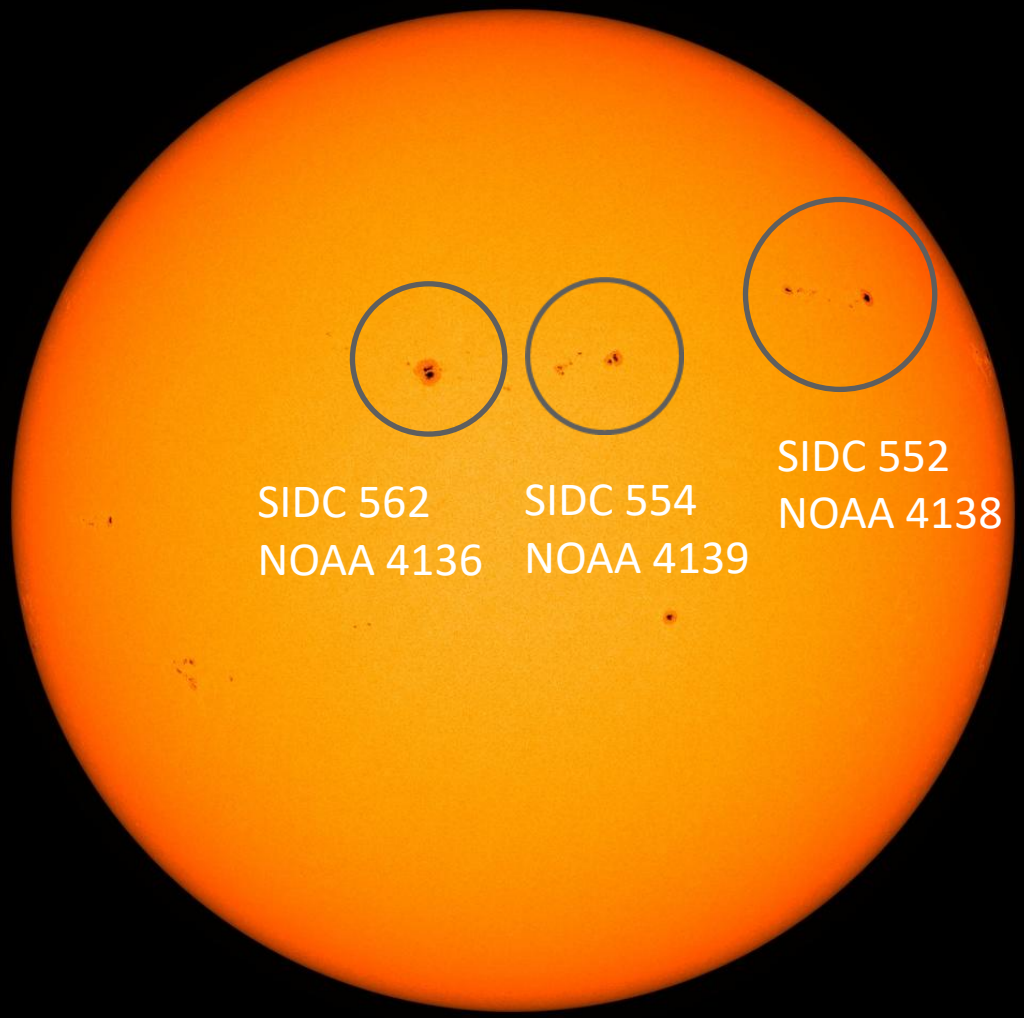
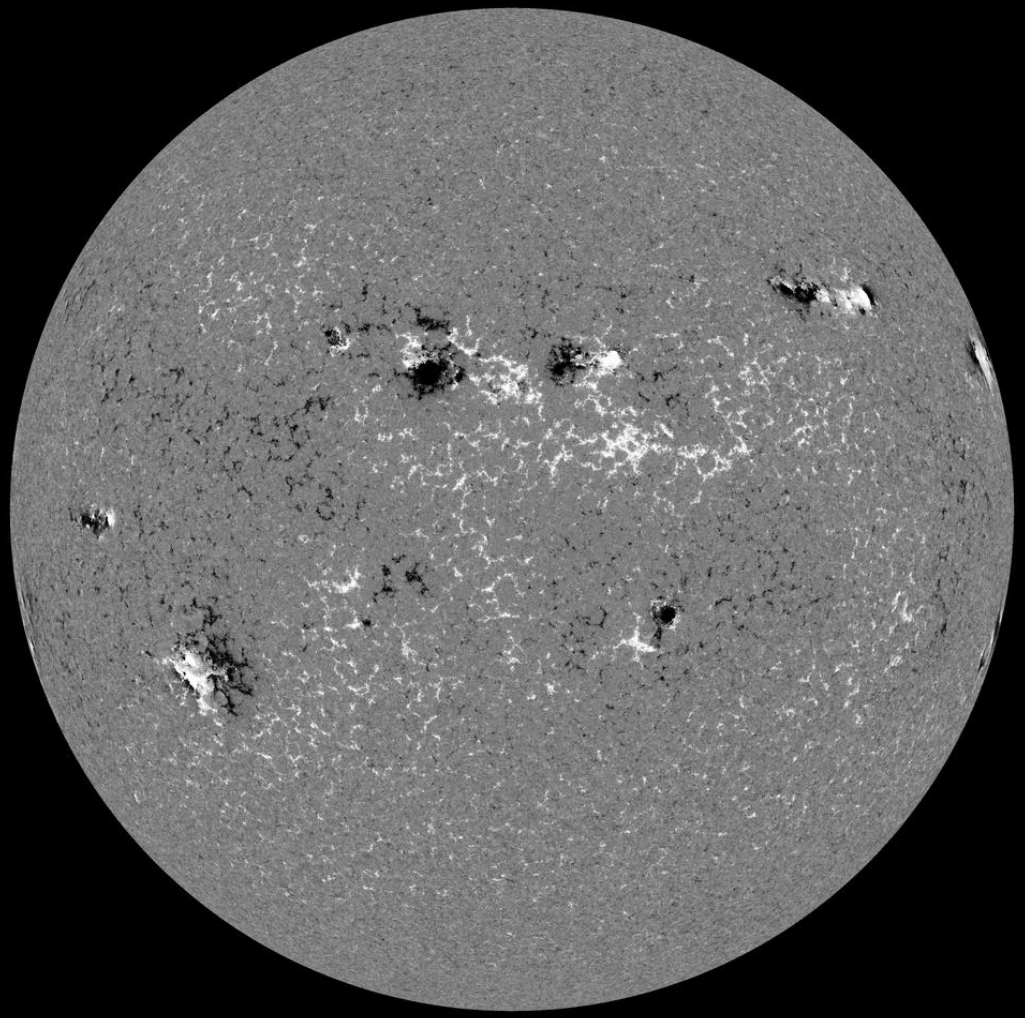
Solar active regions

SDO/HMI White Light 2025-07-14



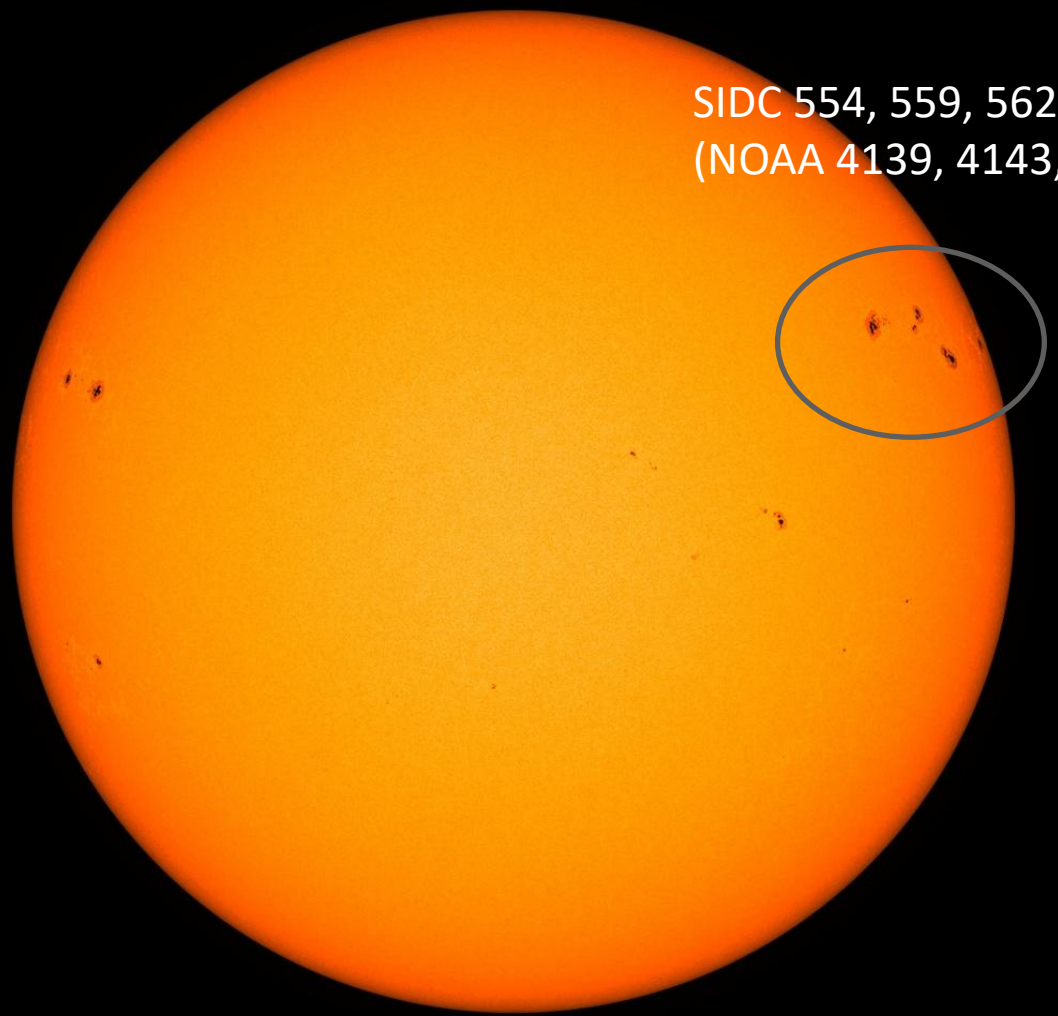
SDO/HMI Magnetogram 2025-07-14



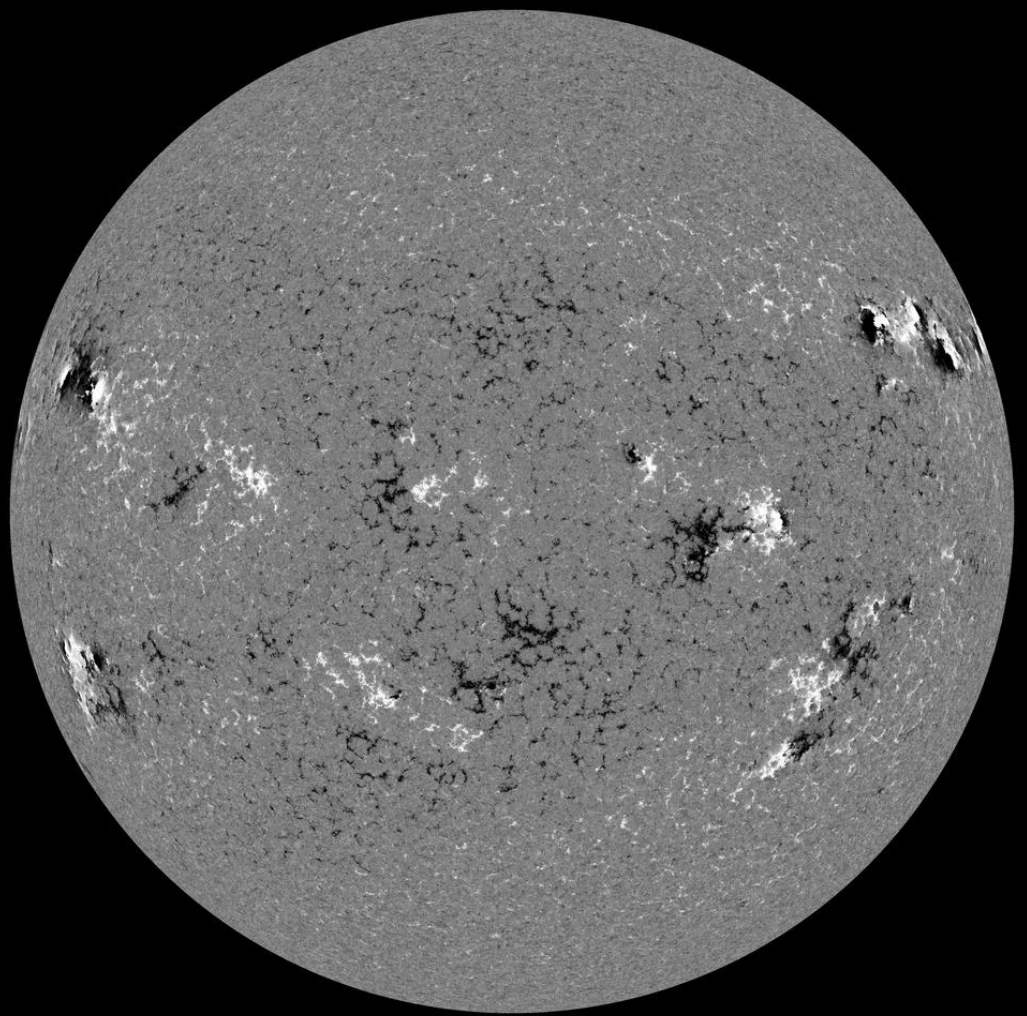
Solar active regions

SDO/HMI White Light 2025-07-20

SIDC 554, 559, 562
(NOAA 4139, 4143, 4136)

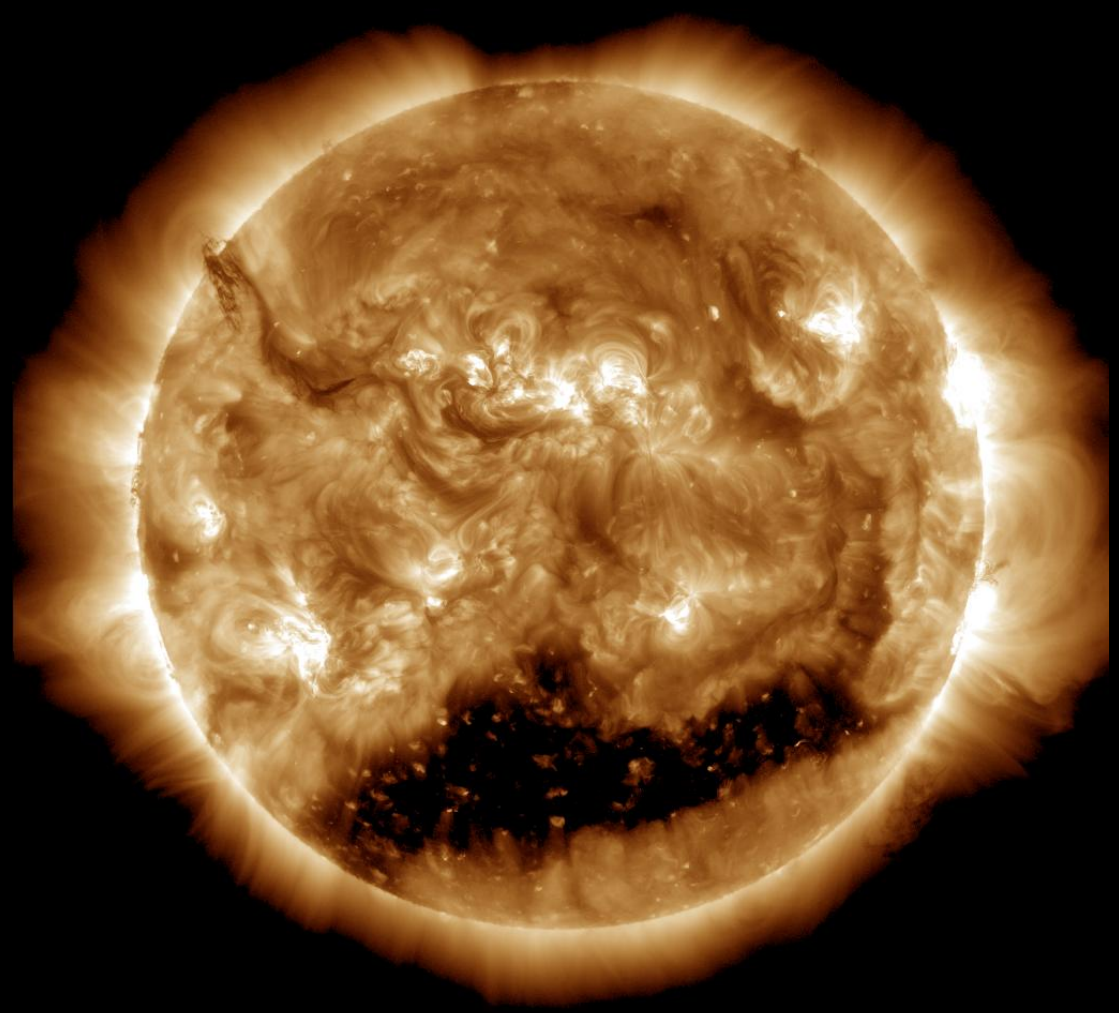


SDO/HMI Magnetogram 2025-07-20

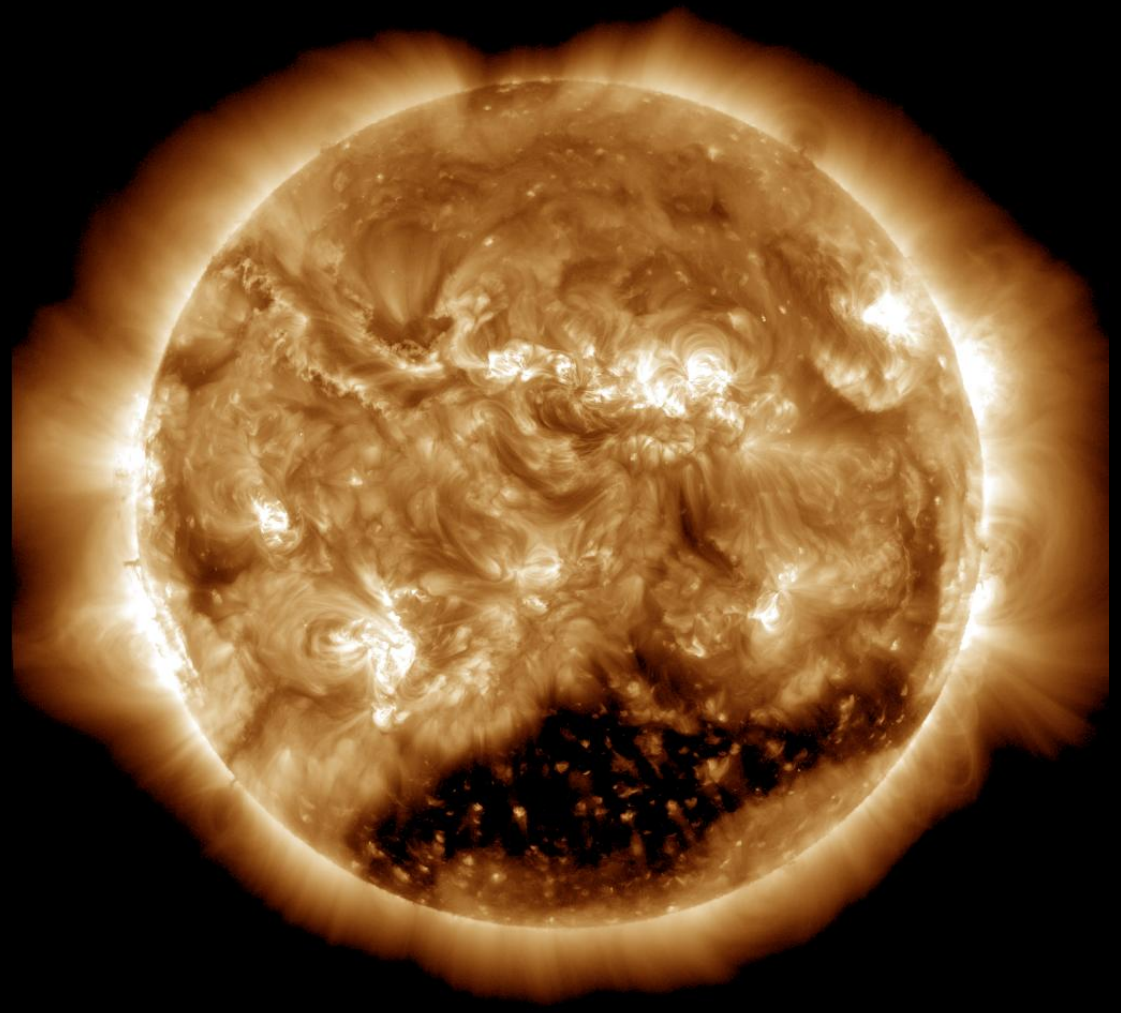


Coronal holes

SDO/AIA 19.3 nm 2025-07-14

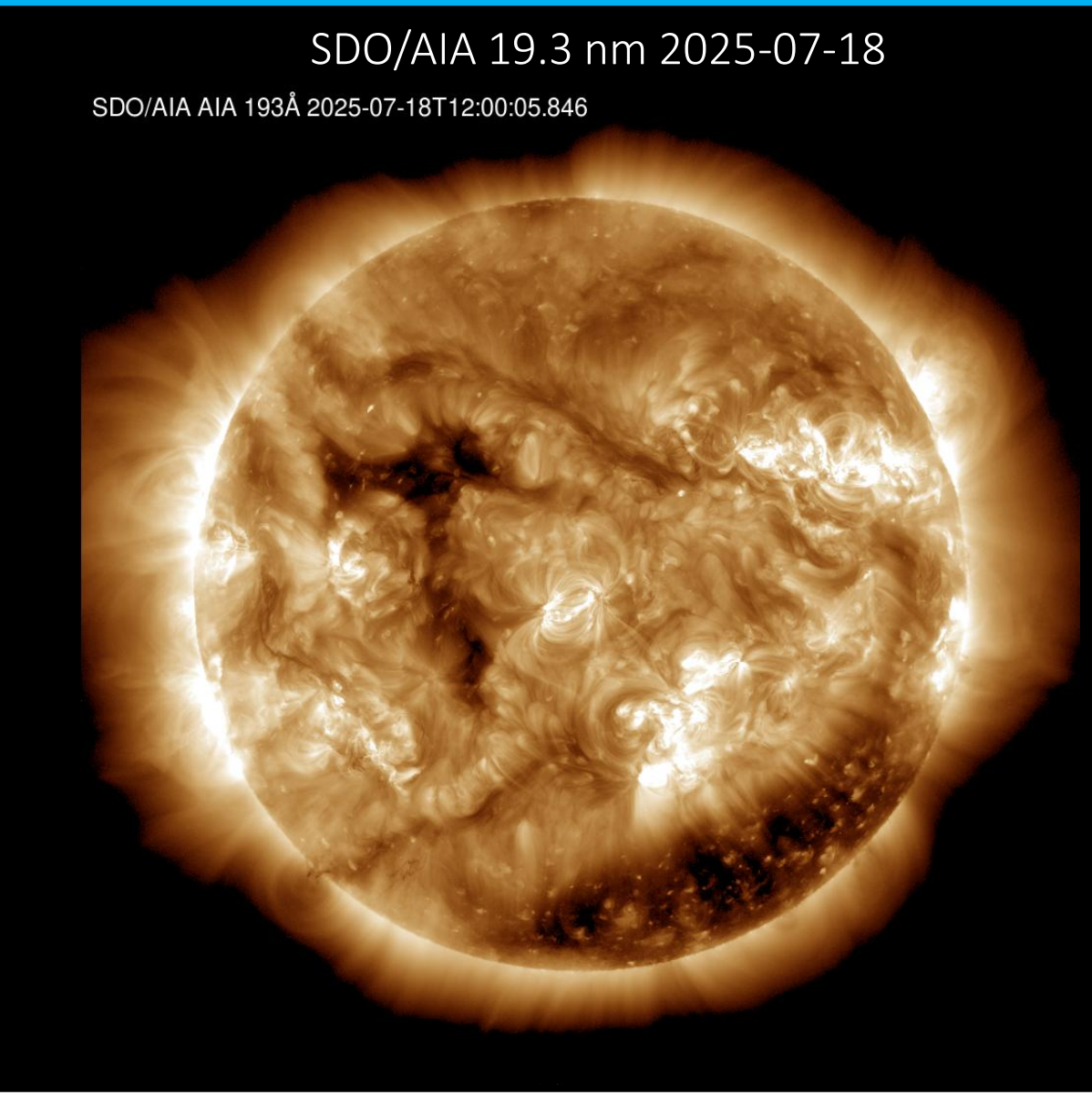


SDO/AIA 19.3 nm 2025-07-15

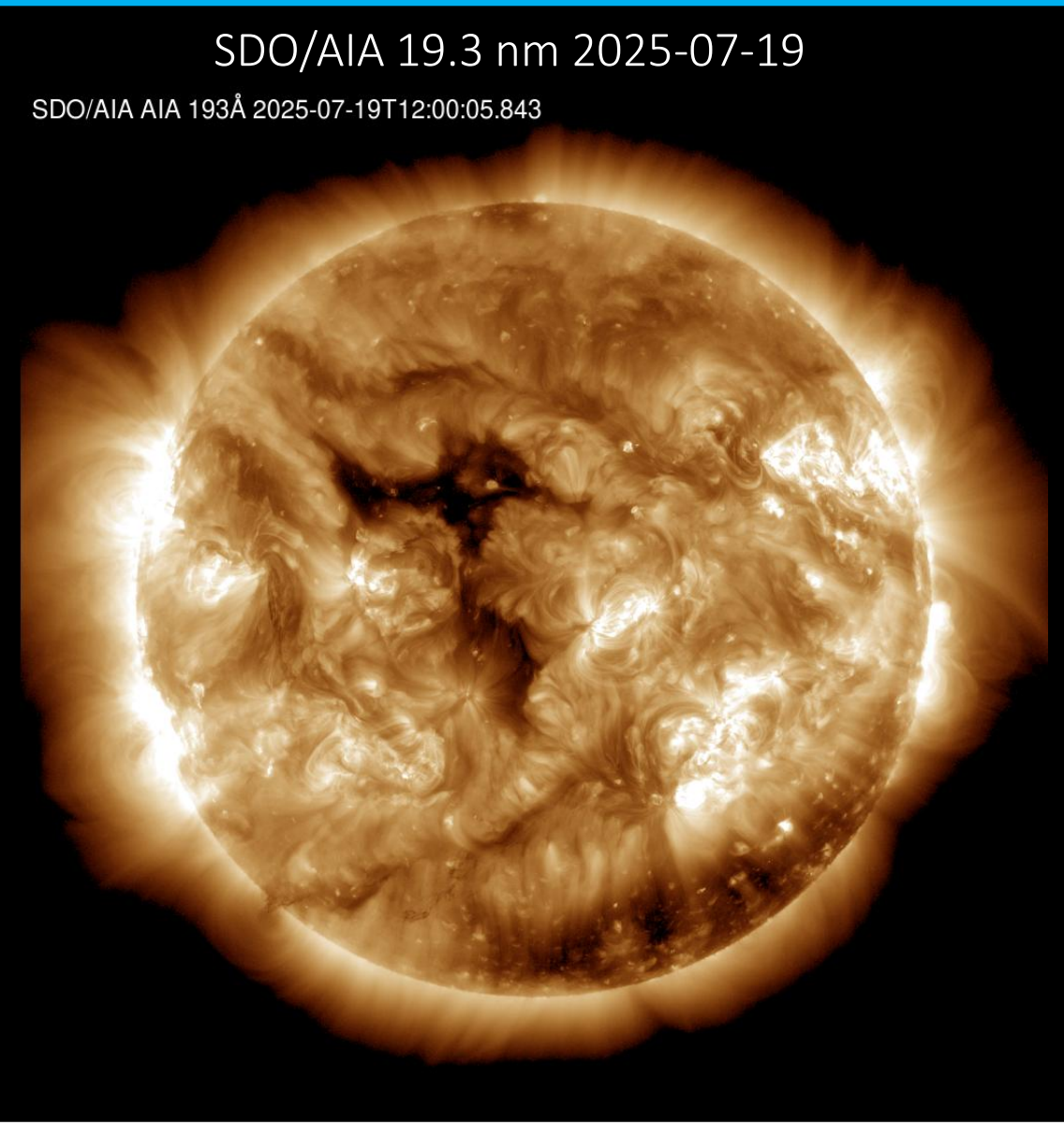


Coronal holes

SDO/AIA 19.3 nm 2025-07-18

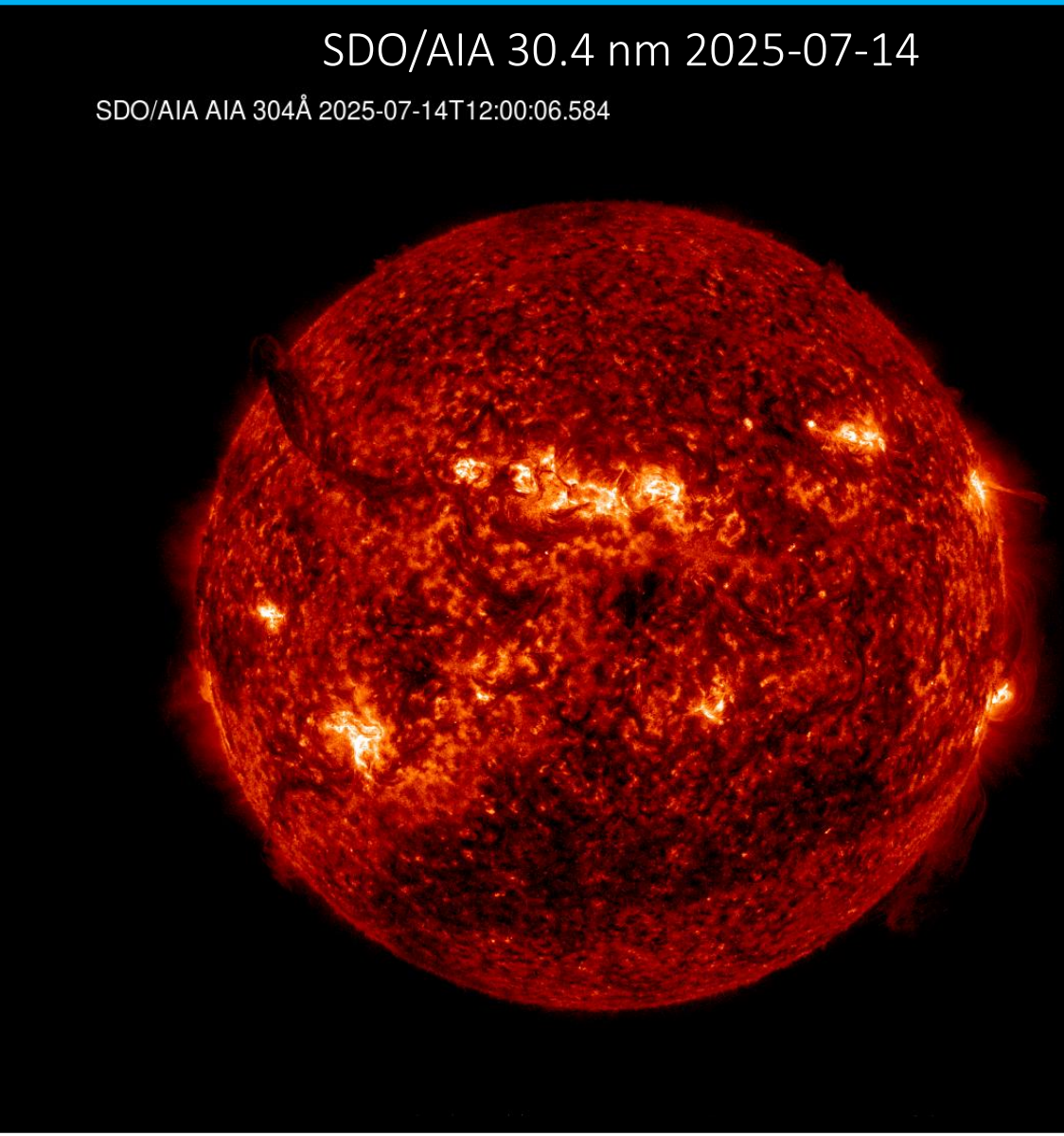


SDO/AIA 19.3 nm 2025-07-19



Filaments

SDO/AIA 30.4 nm 2025-07-14



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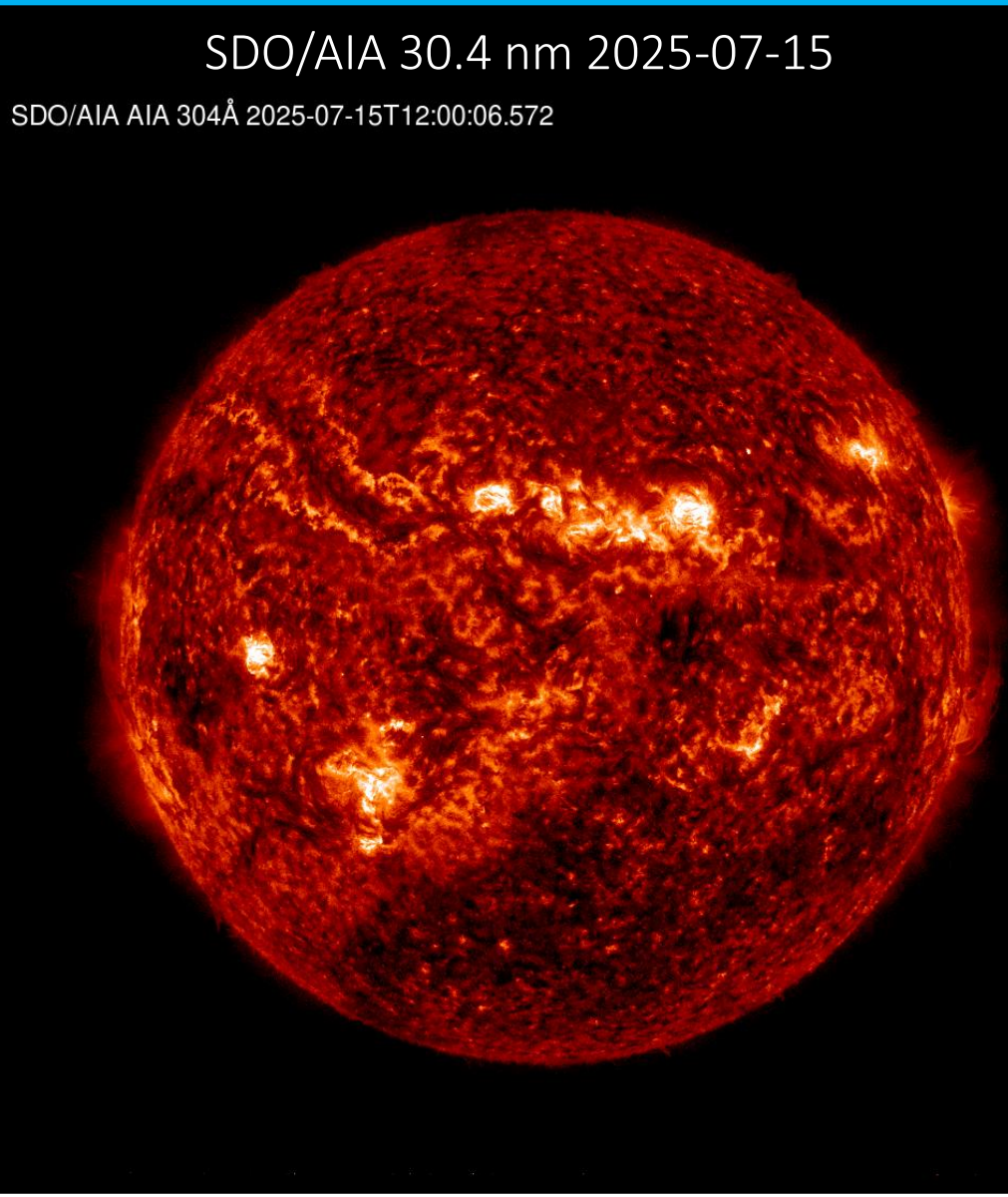

Filaments

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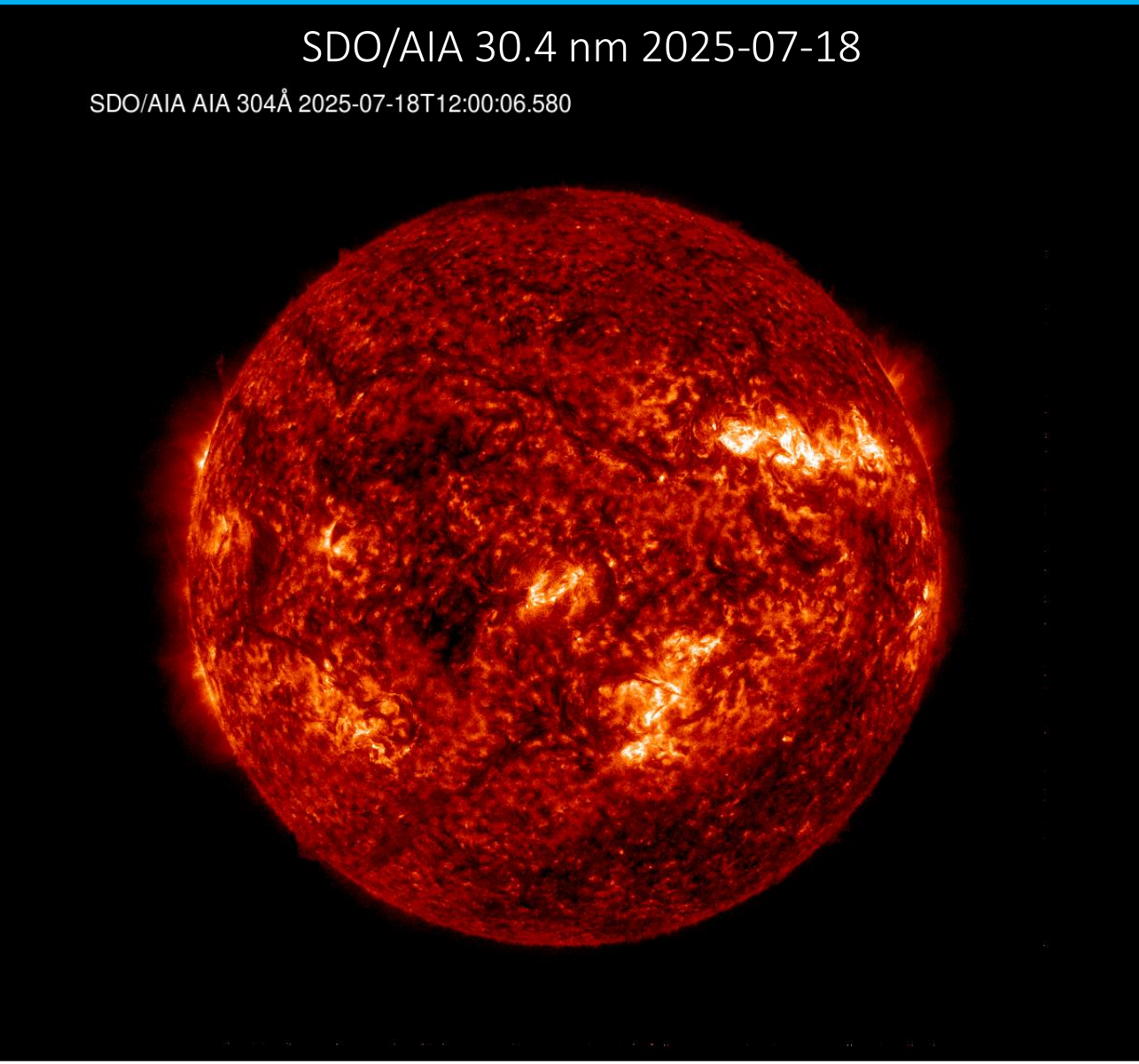

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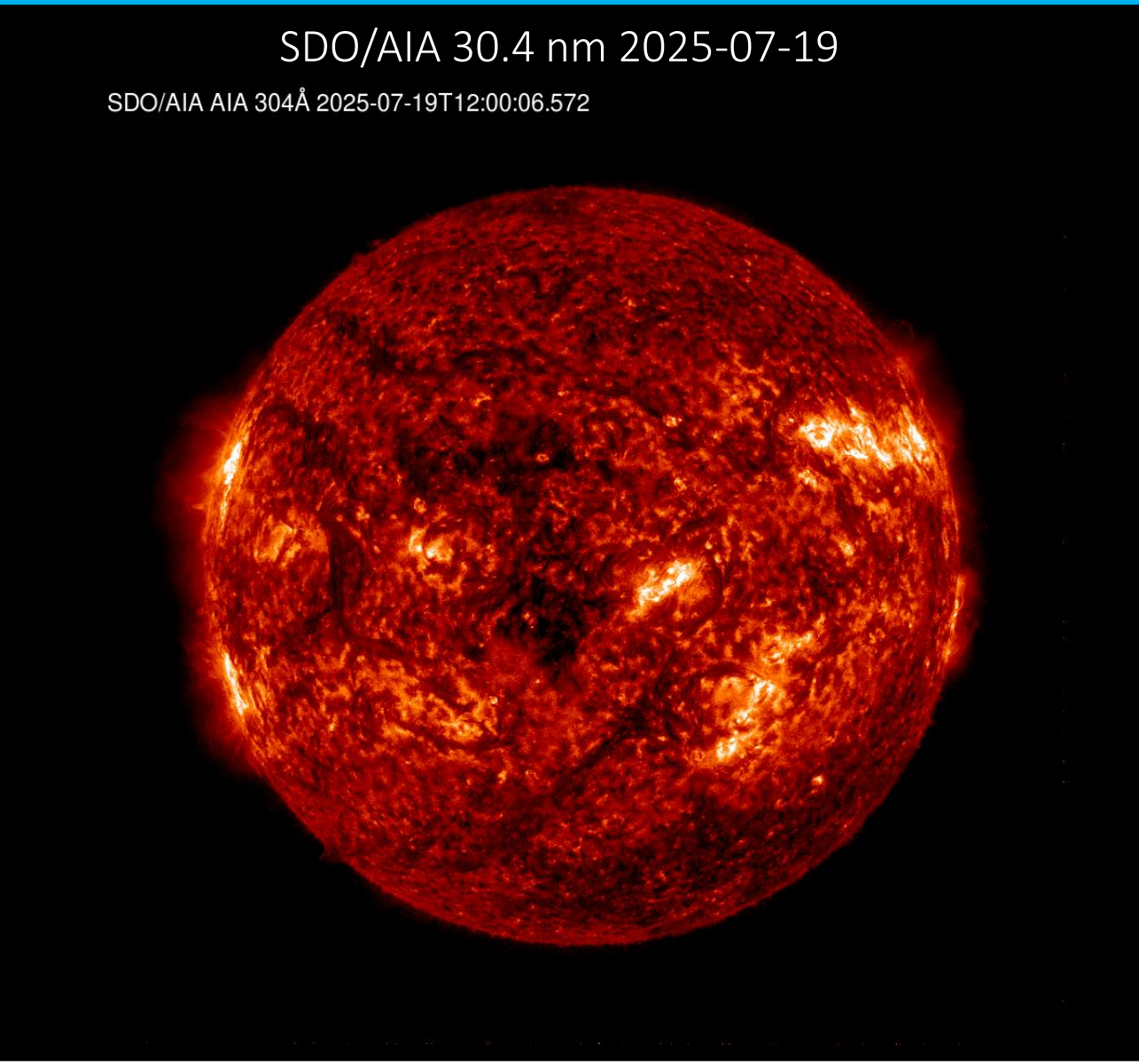
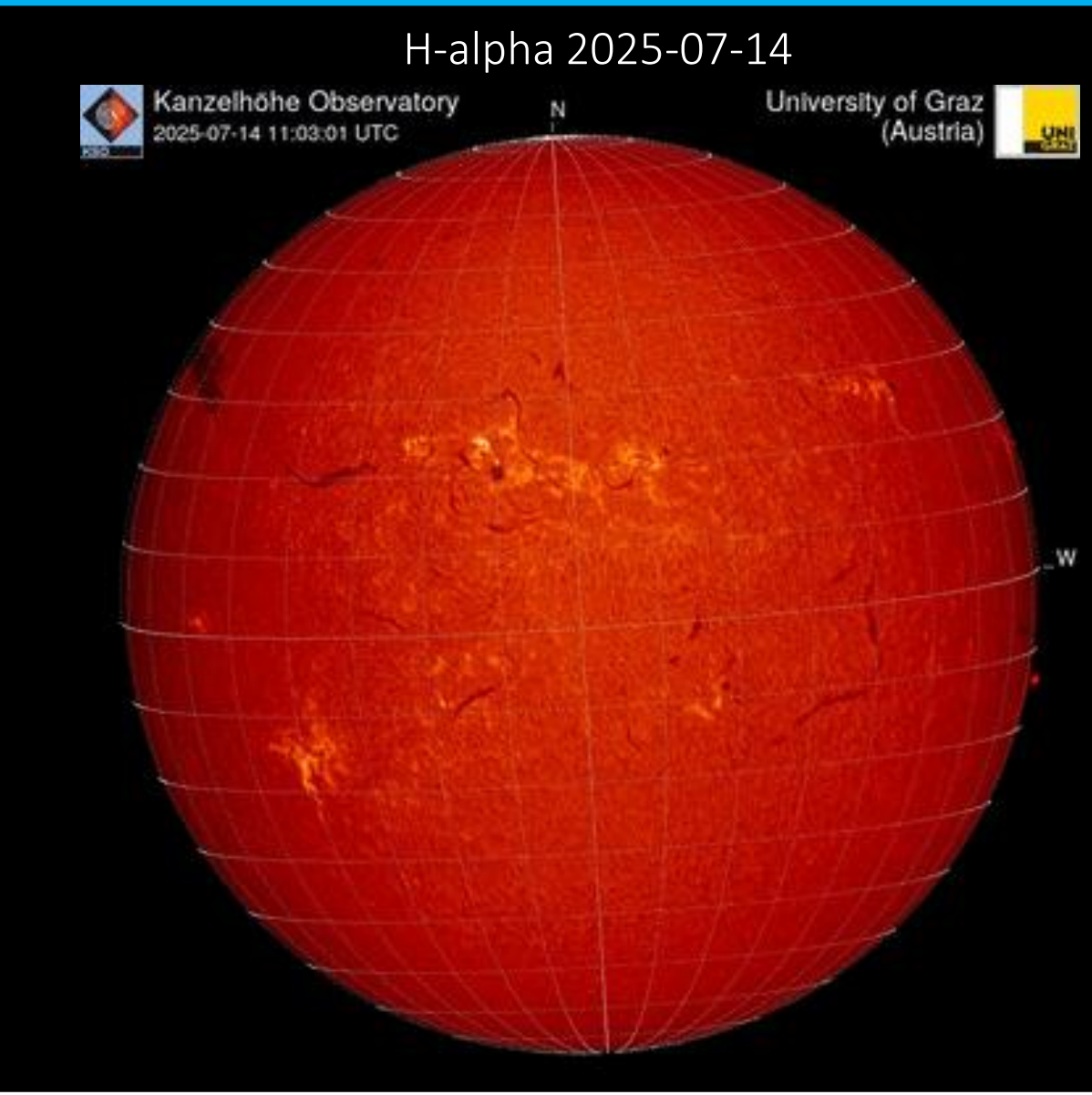
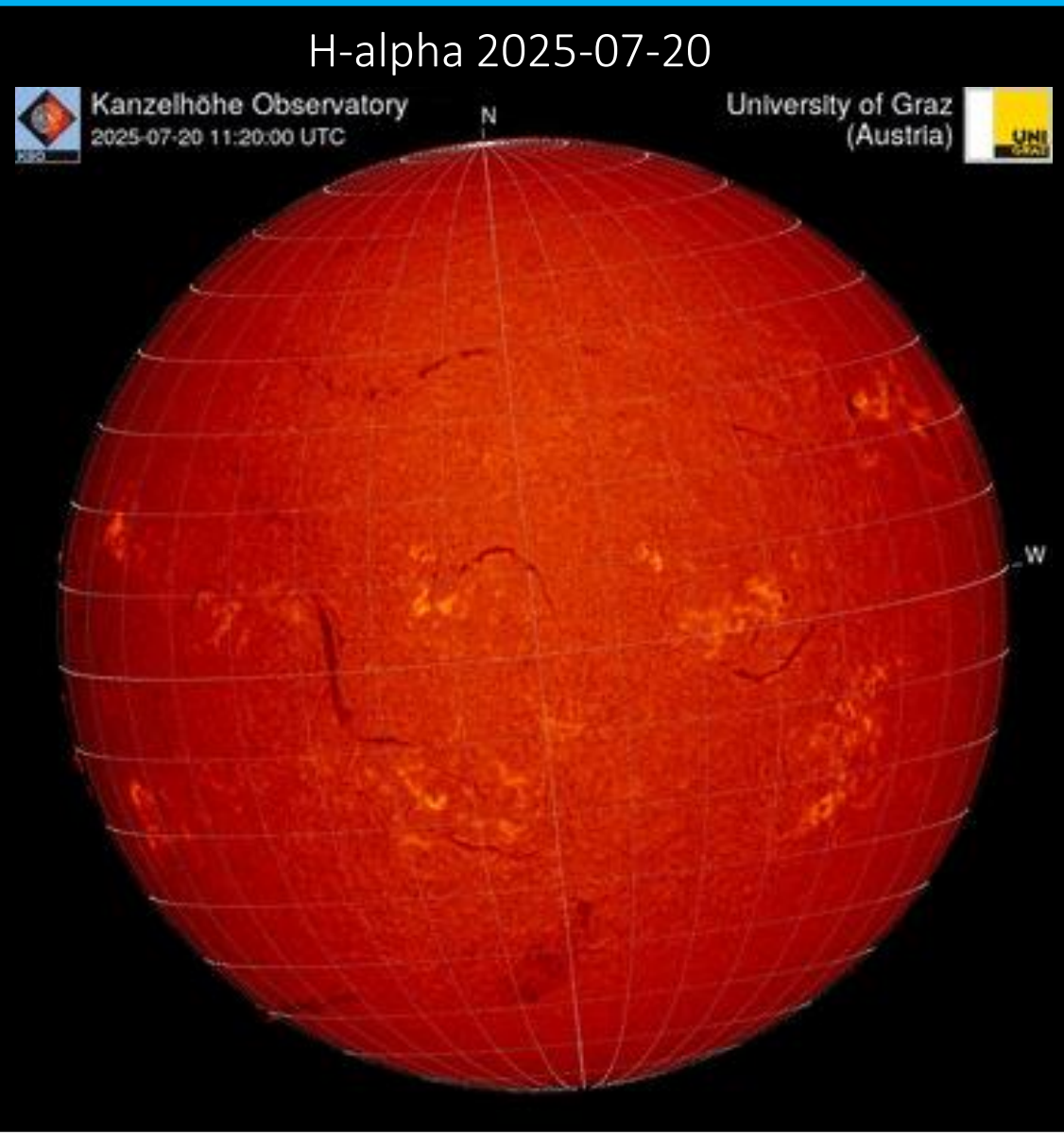


Filaments & Filament eruptions

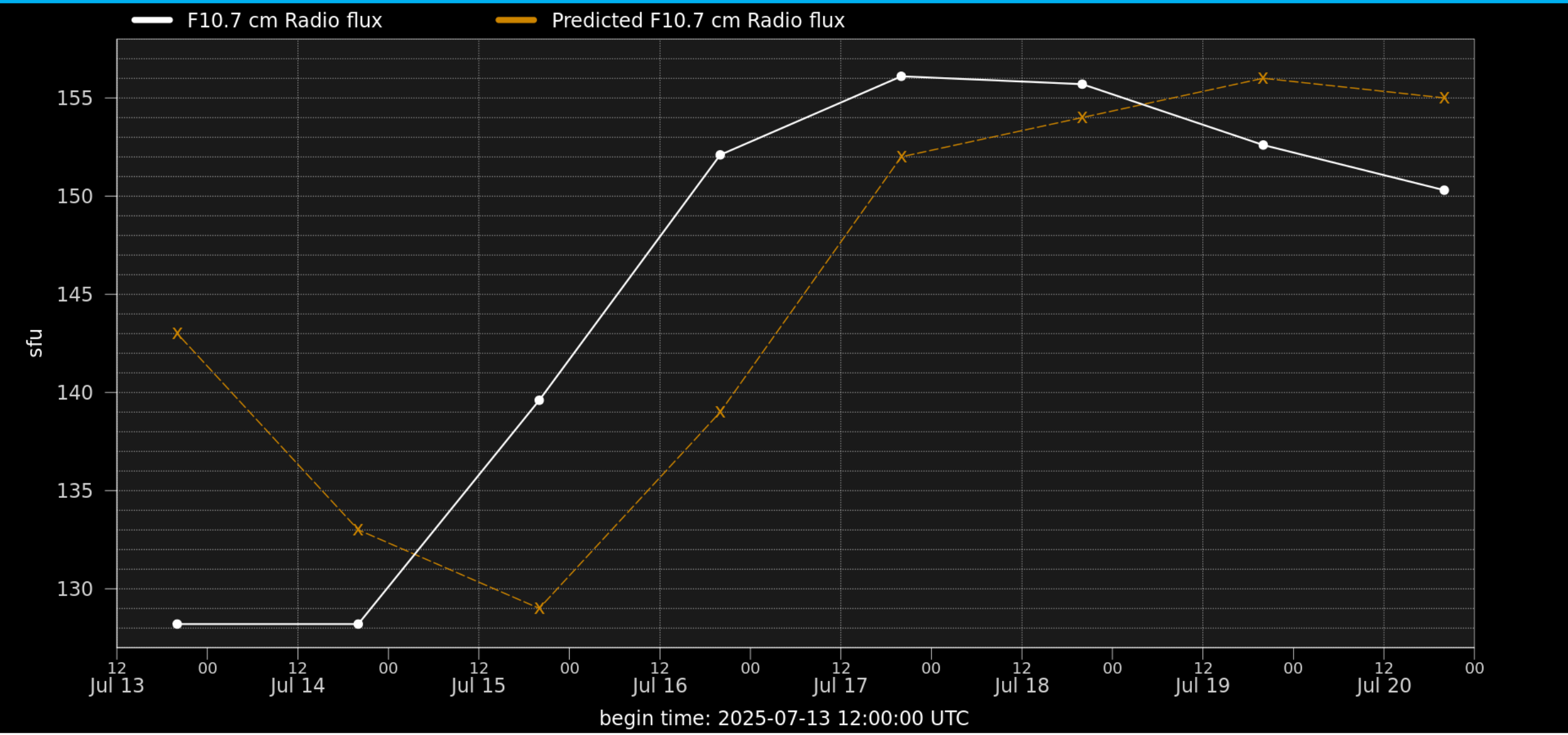
H-alpha 2025-07-14



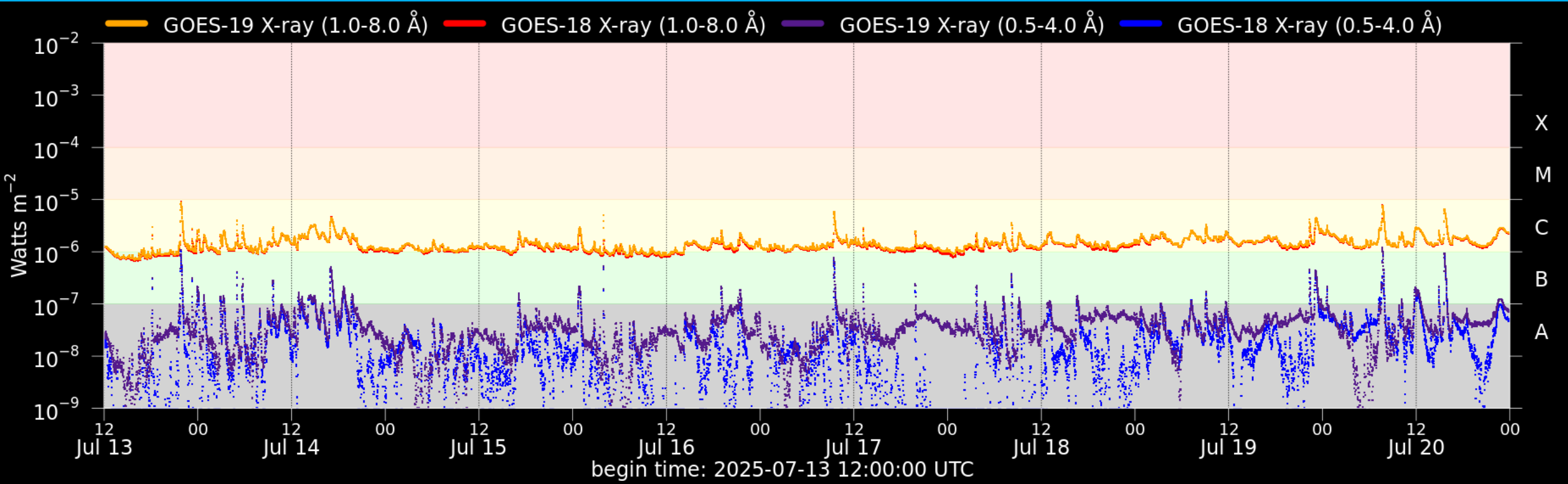
H-alpha 2025-07-20



Solar F10.7cm radio flux



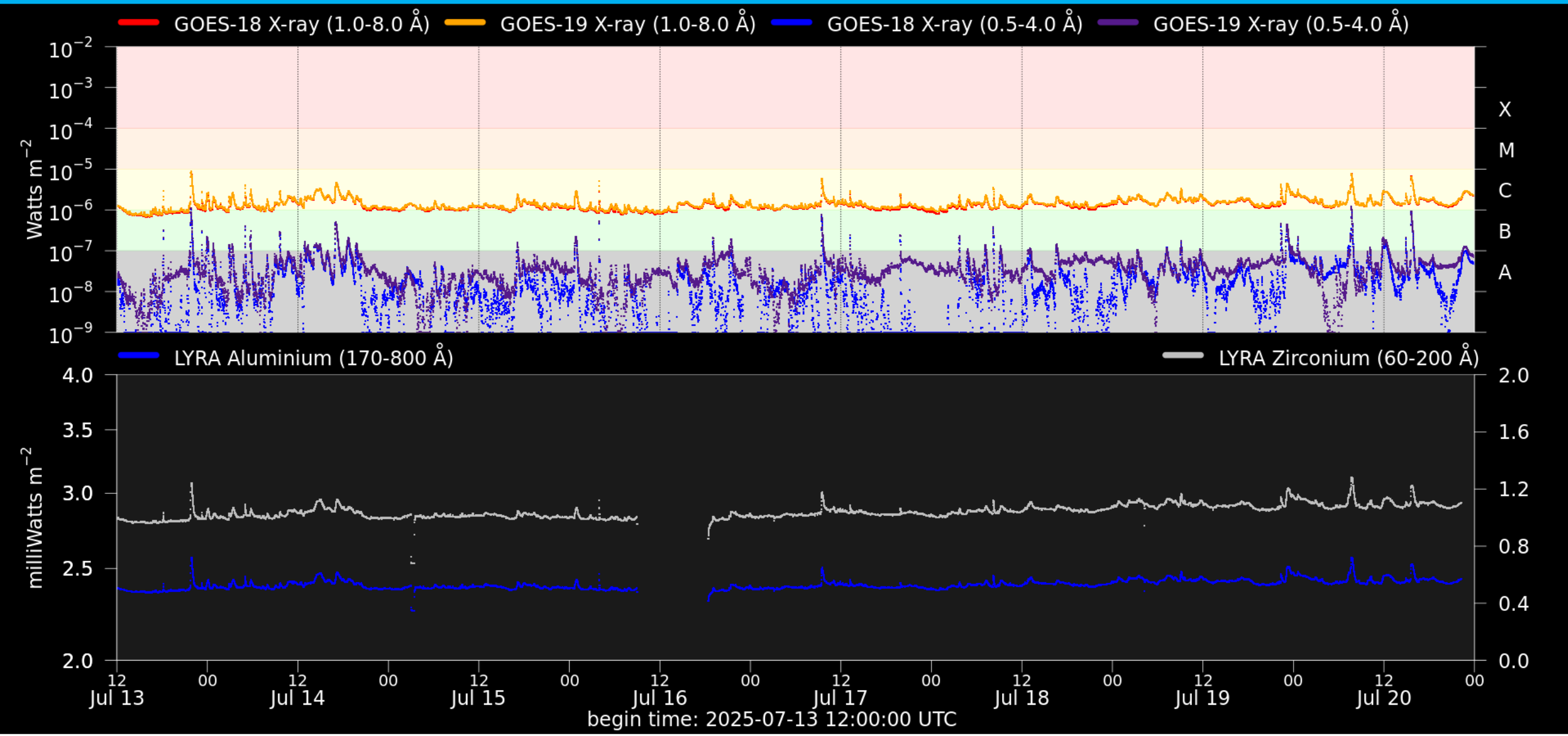
Flaring activity



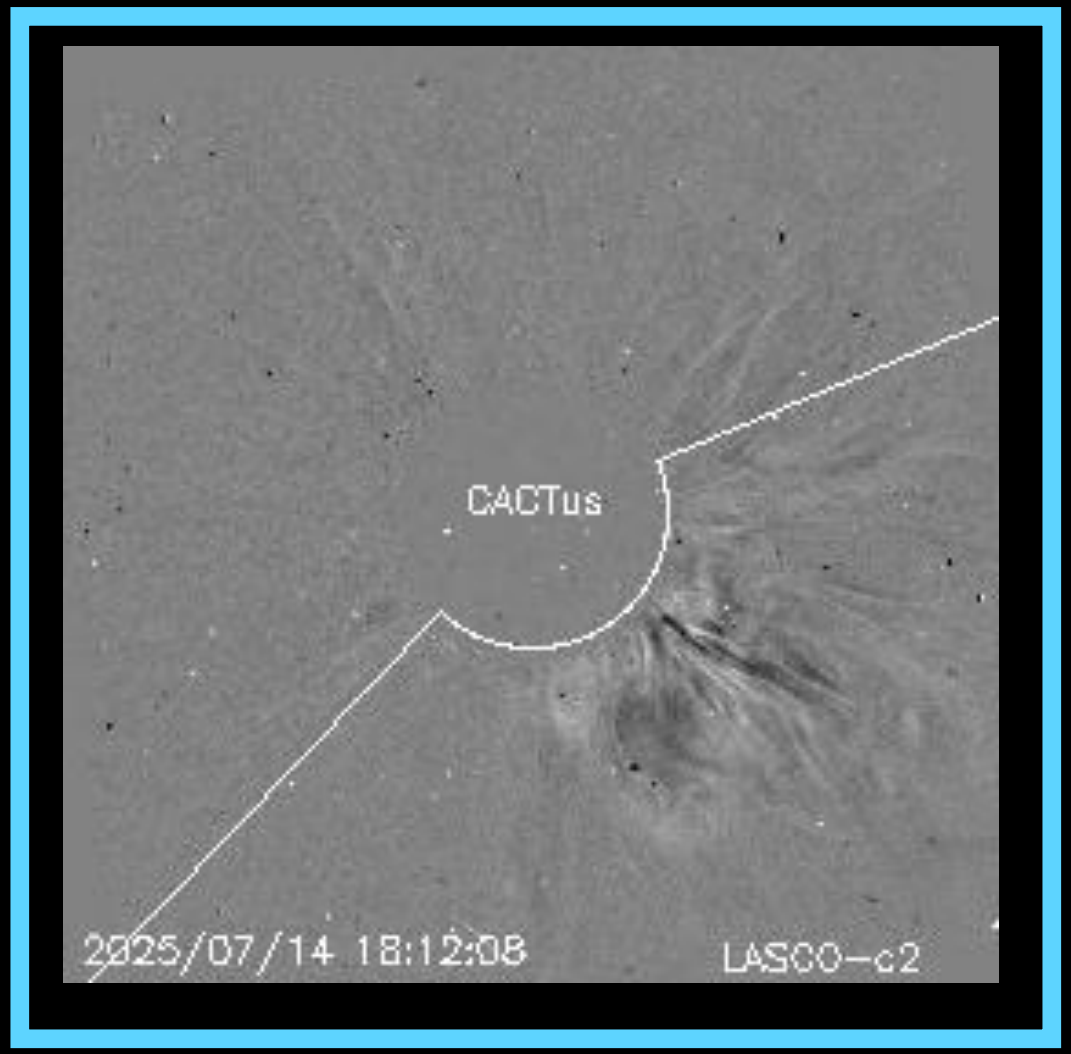
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

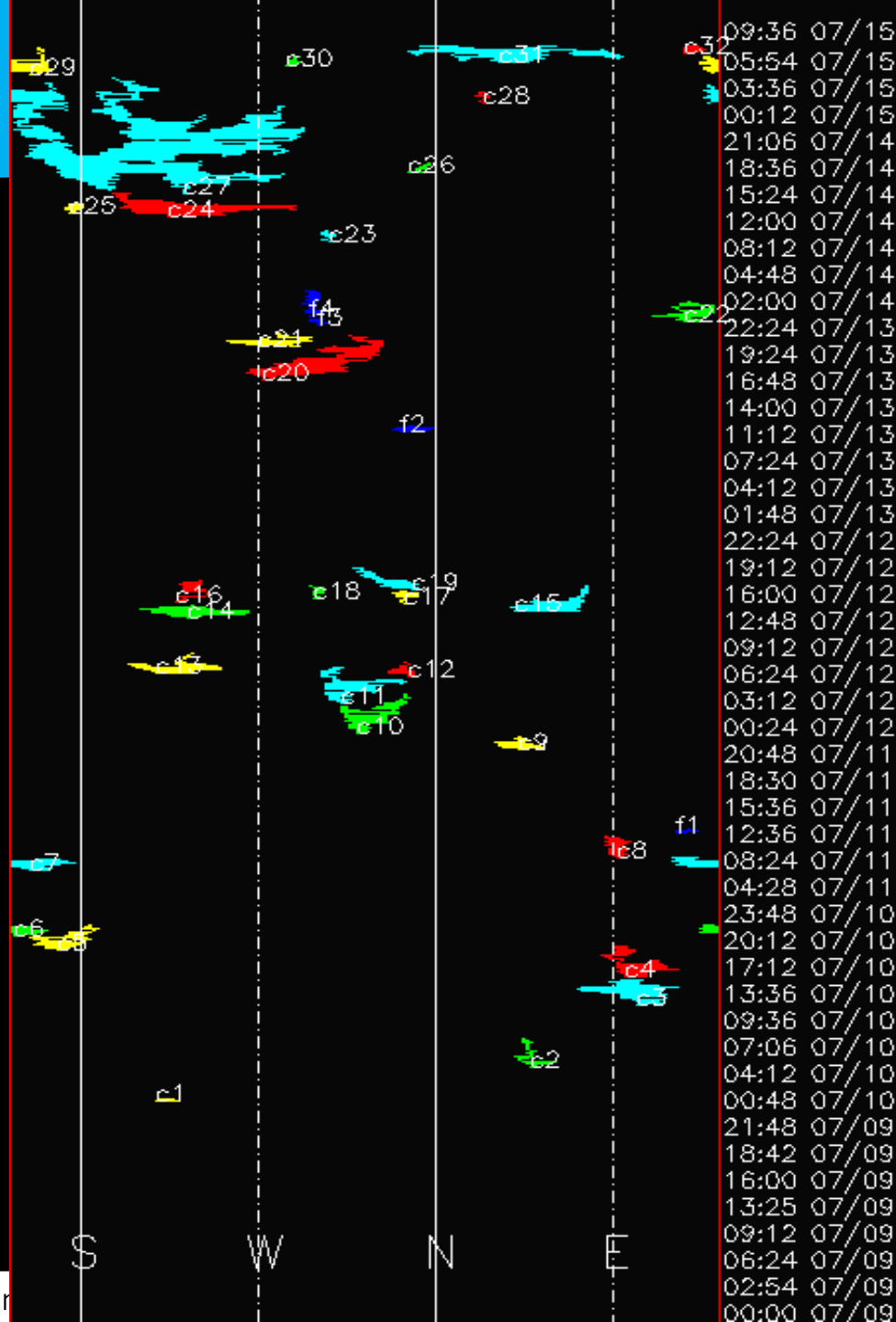
Issue date	2025-07-13	2025-07-14	2025-07-15	2025-07-16	2025-07-17	2025-07-18	2025-07-19	2025-07-20
Probability (%)	99|84|20	94|19|01	98|41|05	99|10|01	99|45|01	99|15|01	94|10|01	99|27|01
Observed (#)	11|00|00	01|00|00	05|00|00	03|00|00	04|00|00	01|00|00	04|00|00	03|00|00

Solar X-Ray and UV flux



Coronal Mass Ejections





Solar Wind and

Geomagnetic Activity

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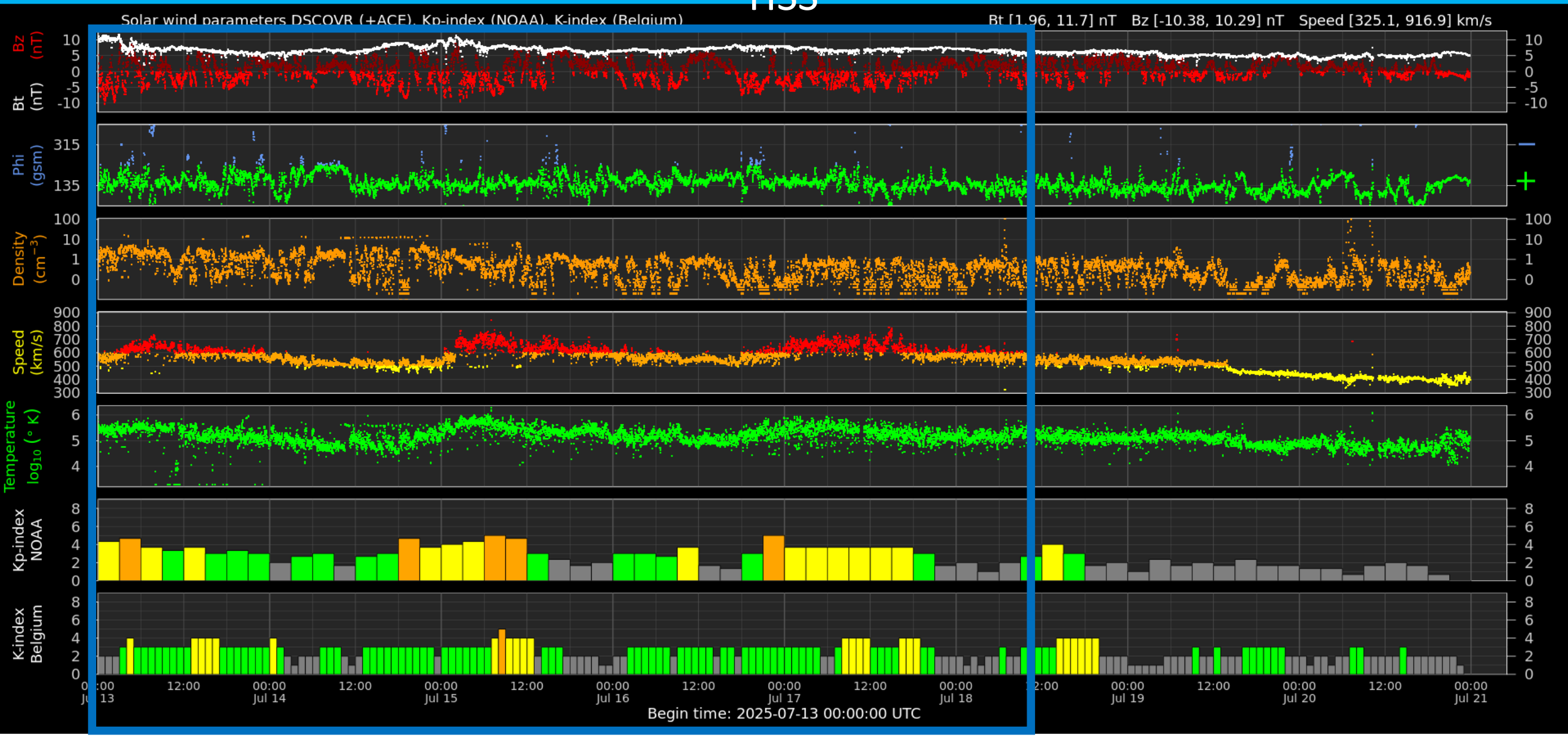
Solar wind parameters & K-indices

HSS



Energetic Particles

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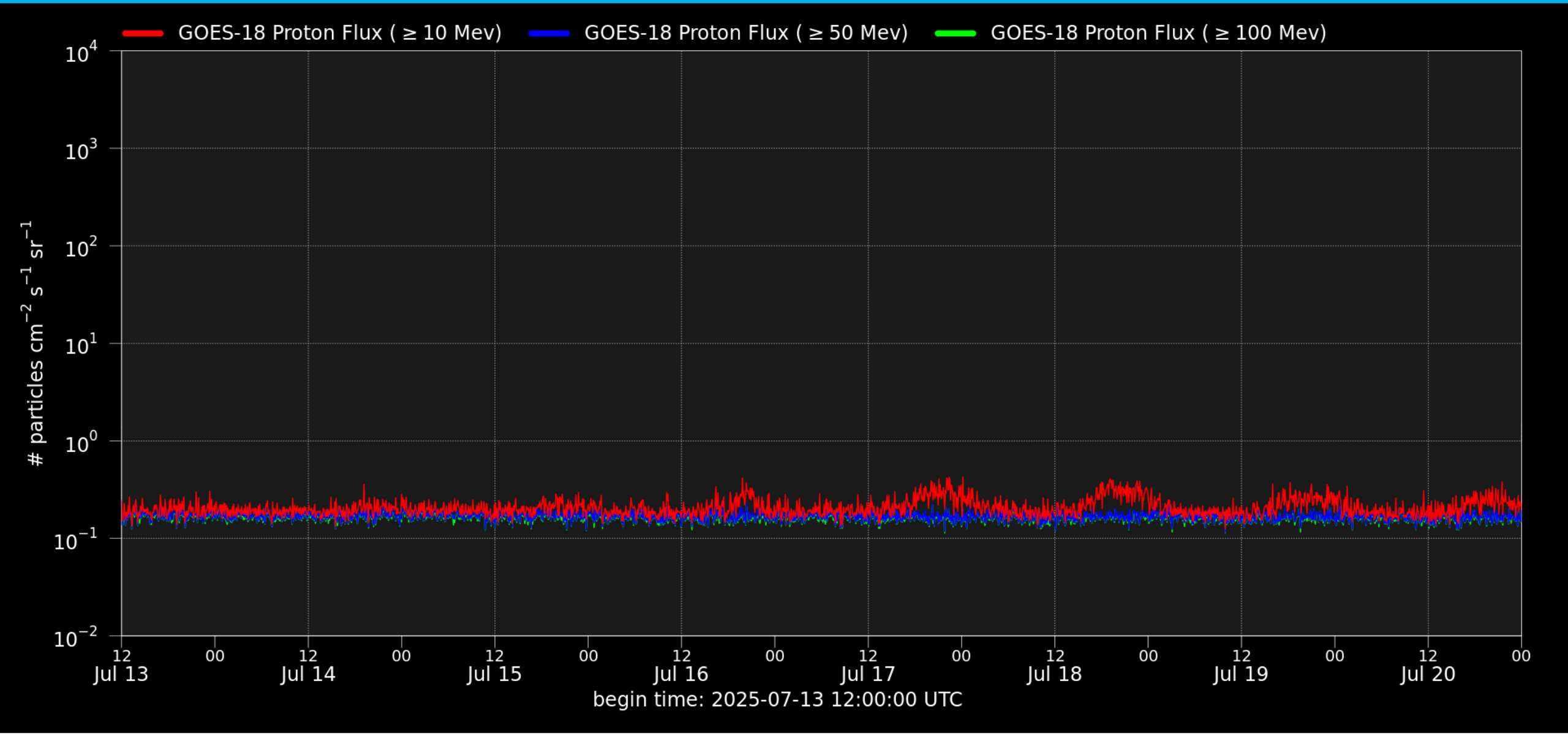
Solar proton flux



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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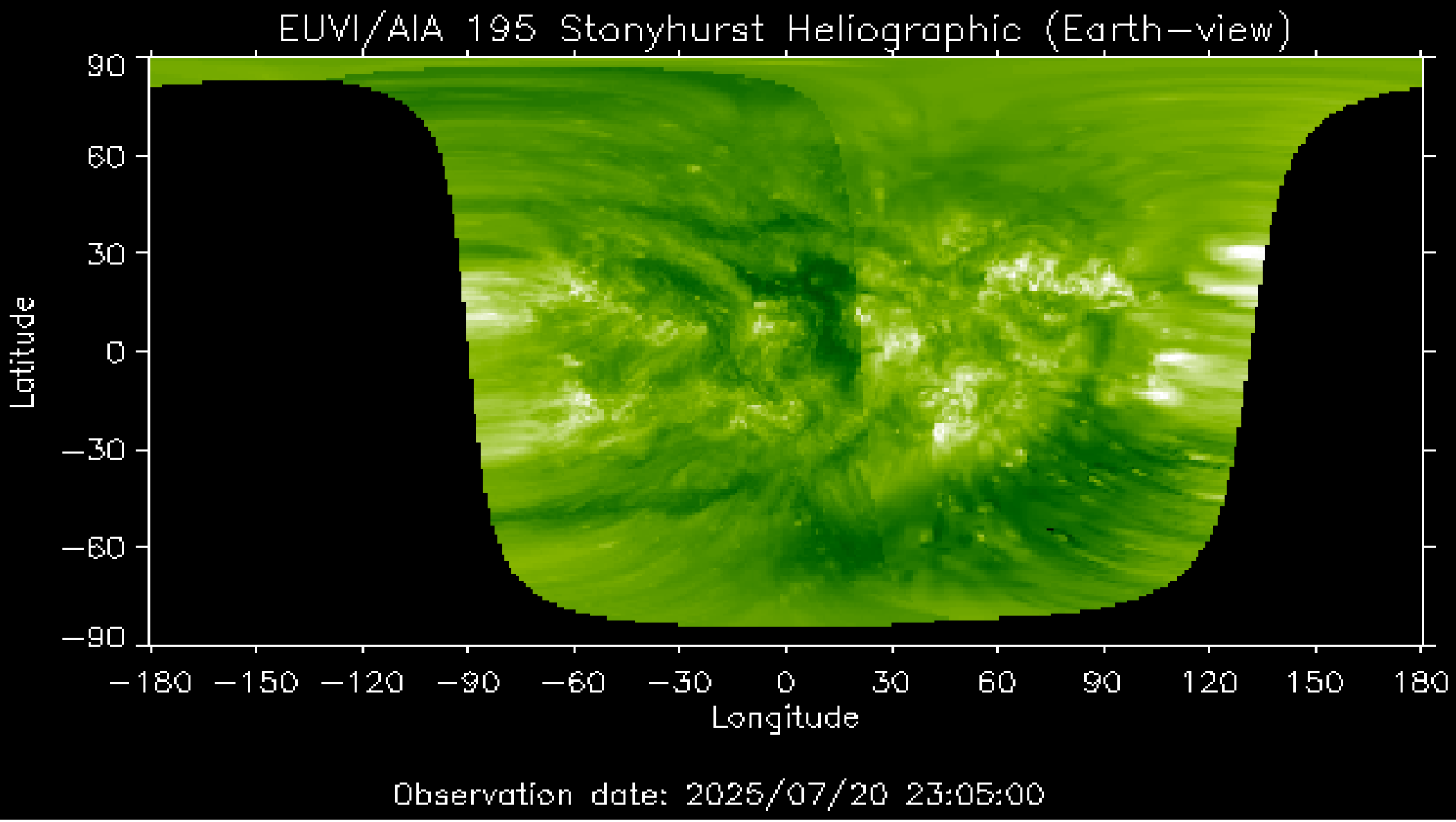
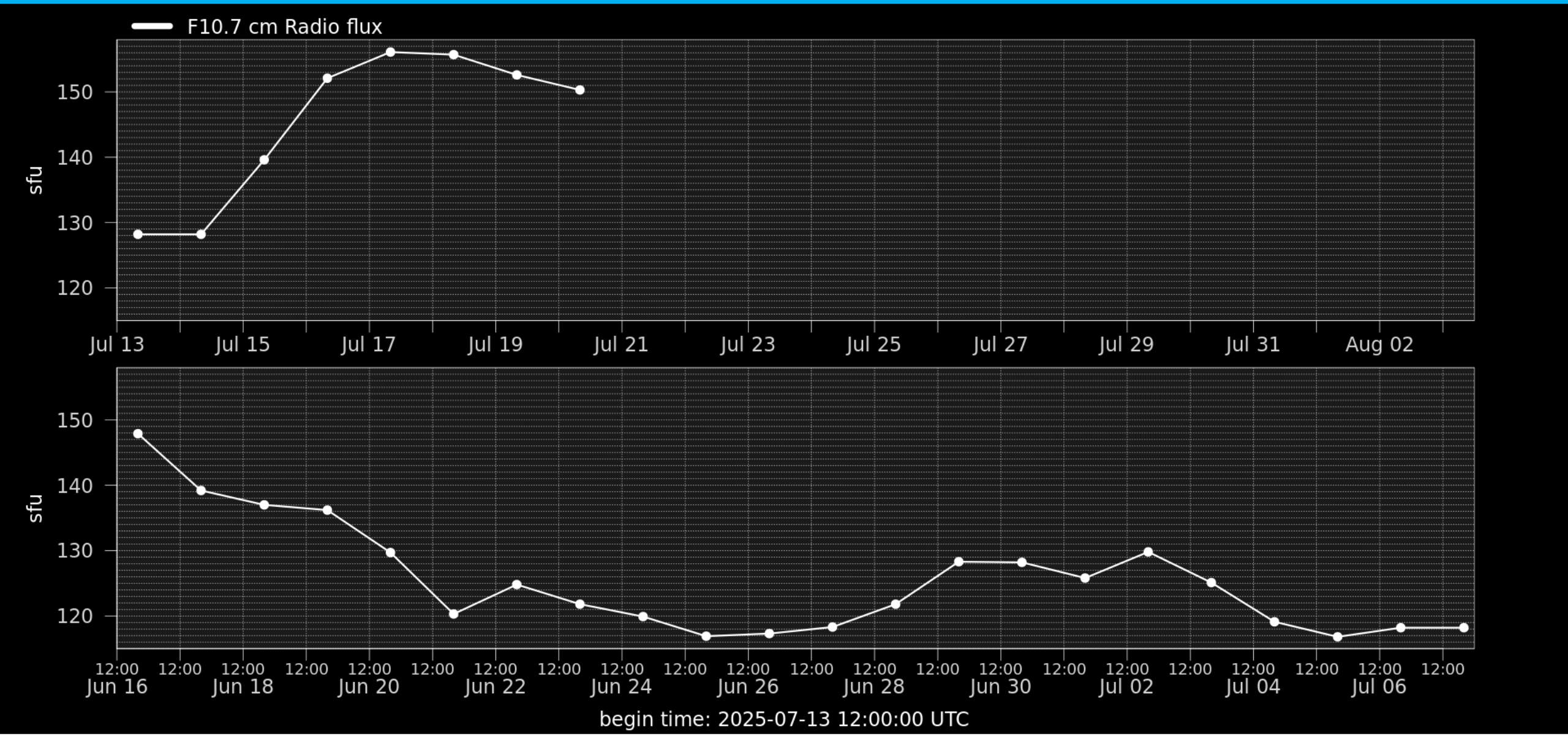
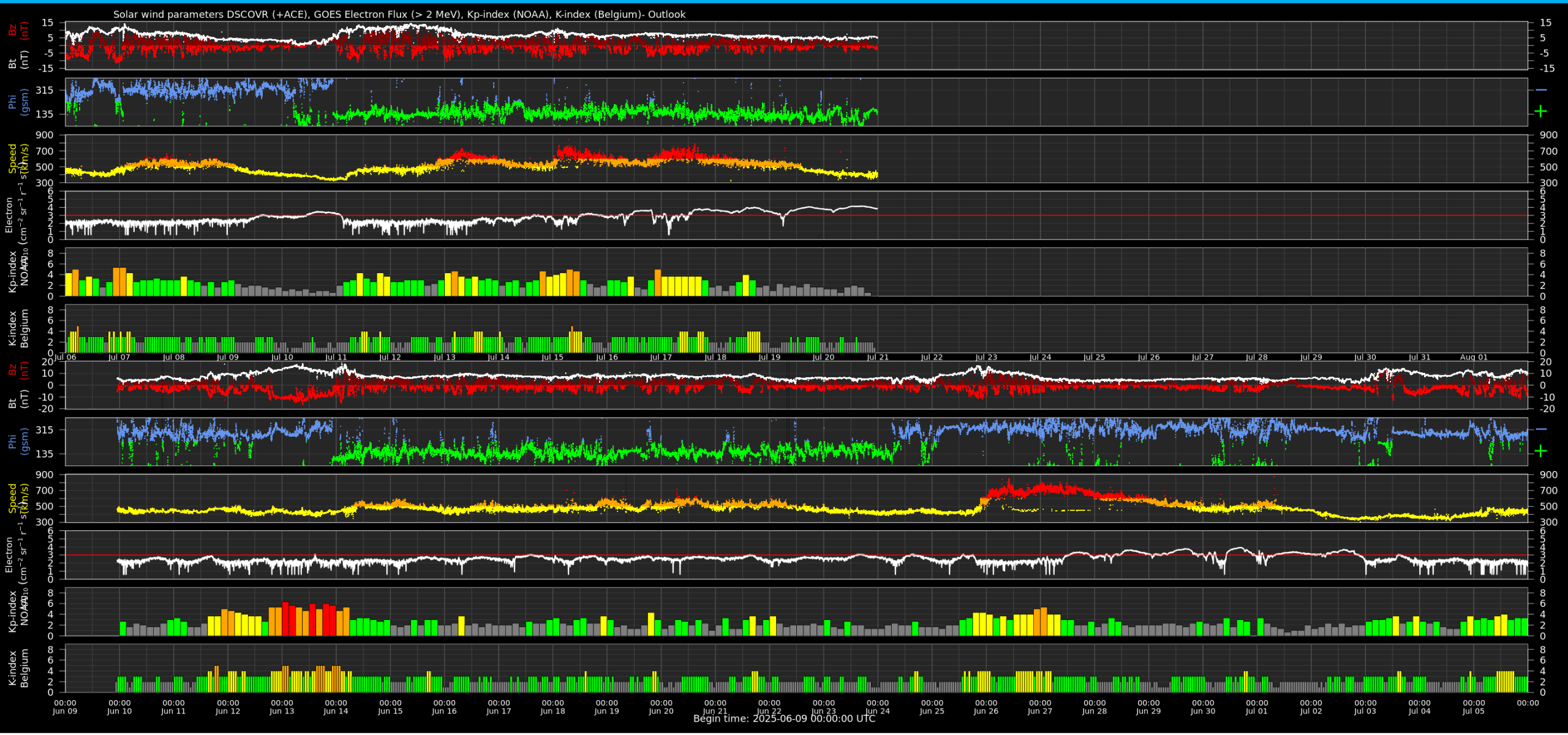
Outlook: Solar activity



Outlook: Solar F10.7cm radio flux



Outlook: Electron Flux at GEO Outlook



PECASUS

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Pecasus related events

No Pecasus advisories issued.

SIDC Space Weather Briefing

See you at our next briefing!

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