SIDC Space Weather Briefing

13 July 2026-19 July 2026

Dimitrios Millas

& the SIDC forecaster team

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-07-13 00:00 to 2026-07-19 23:59

Active regions	9; mostly α or β / SIDC 916 (NOAA 4489) developed to βγ on 19/07
Flares	# C-class flare: 12 # M-class flare: 0 # X-class flare: 0
Coronal Holes	3 + / 2 -
CMEs	A few, not Earth-directed

Proton flux	Normal
Electron flux	Exceeded the 1000 pfu threshold

Solar wind and geomagnetic conditions

ICMEs	Possible glancing blow arrival (SIDC CME 686) on 14/07
Solar wind conditions	|B|: 0.67 - 14.63 nT// Bz: -8.08 nT to 12.28 nT// Speed: 518.0 km/s
Geomagnetic conditions	max KBel: 4.0, max Kp(NOAA): 3.67, Active conditions

Solar Activity

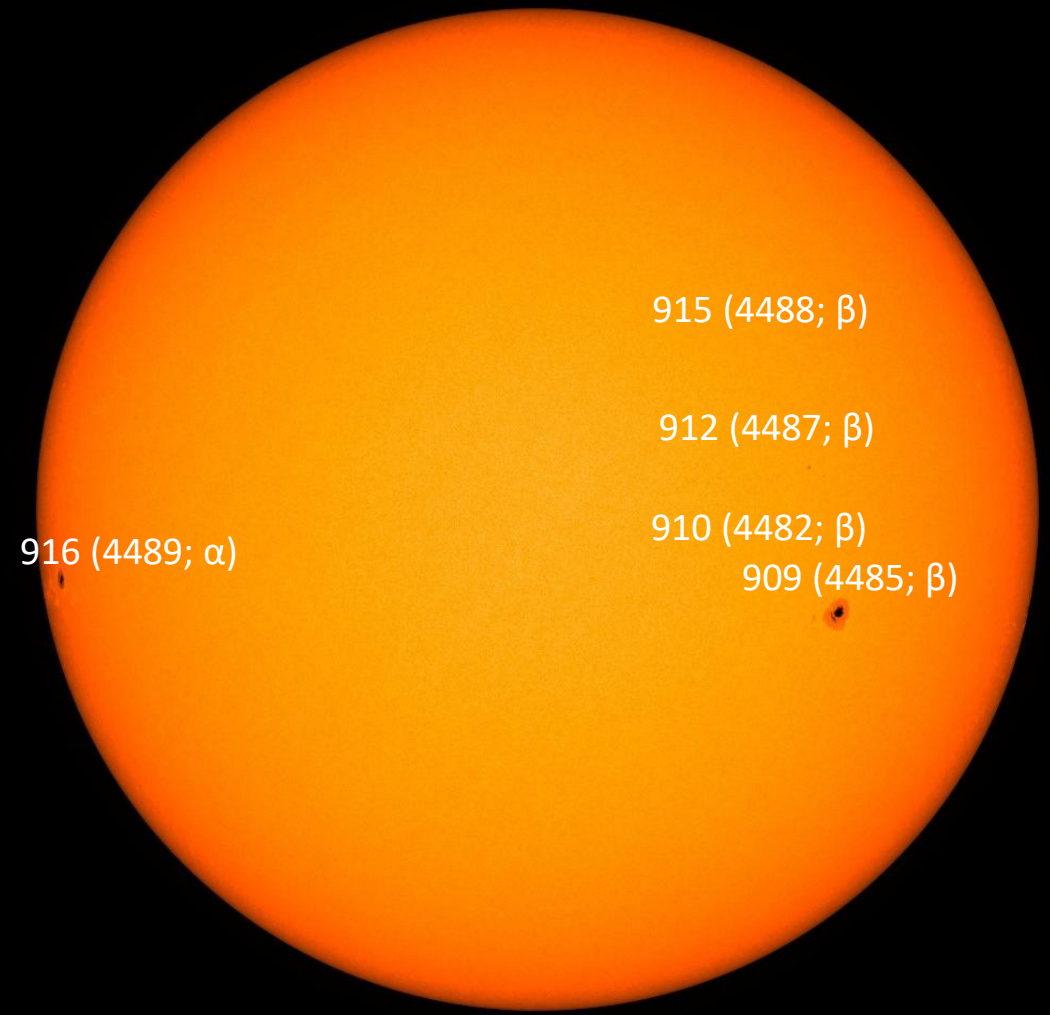


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of Belgium

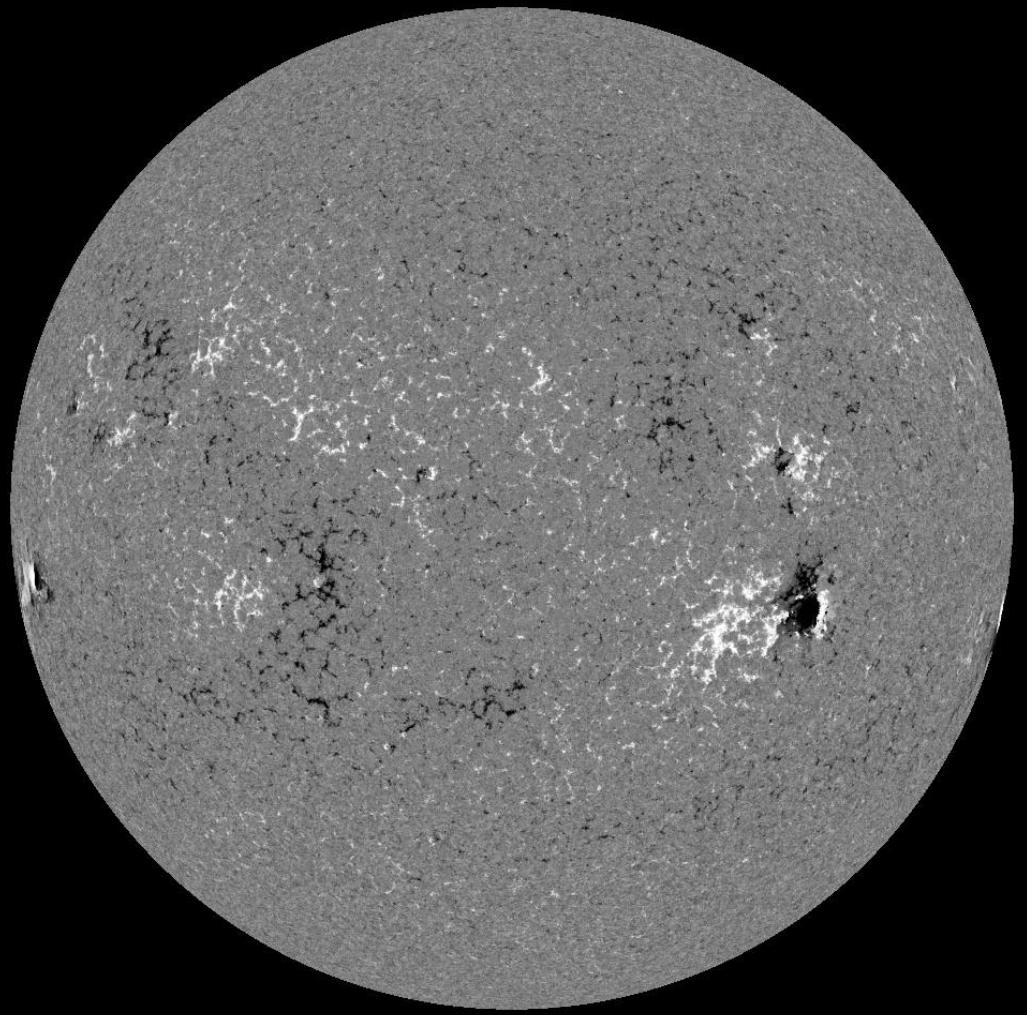
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Solar active regions

SDO/HMI White Light 2026-07-13

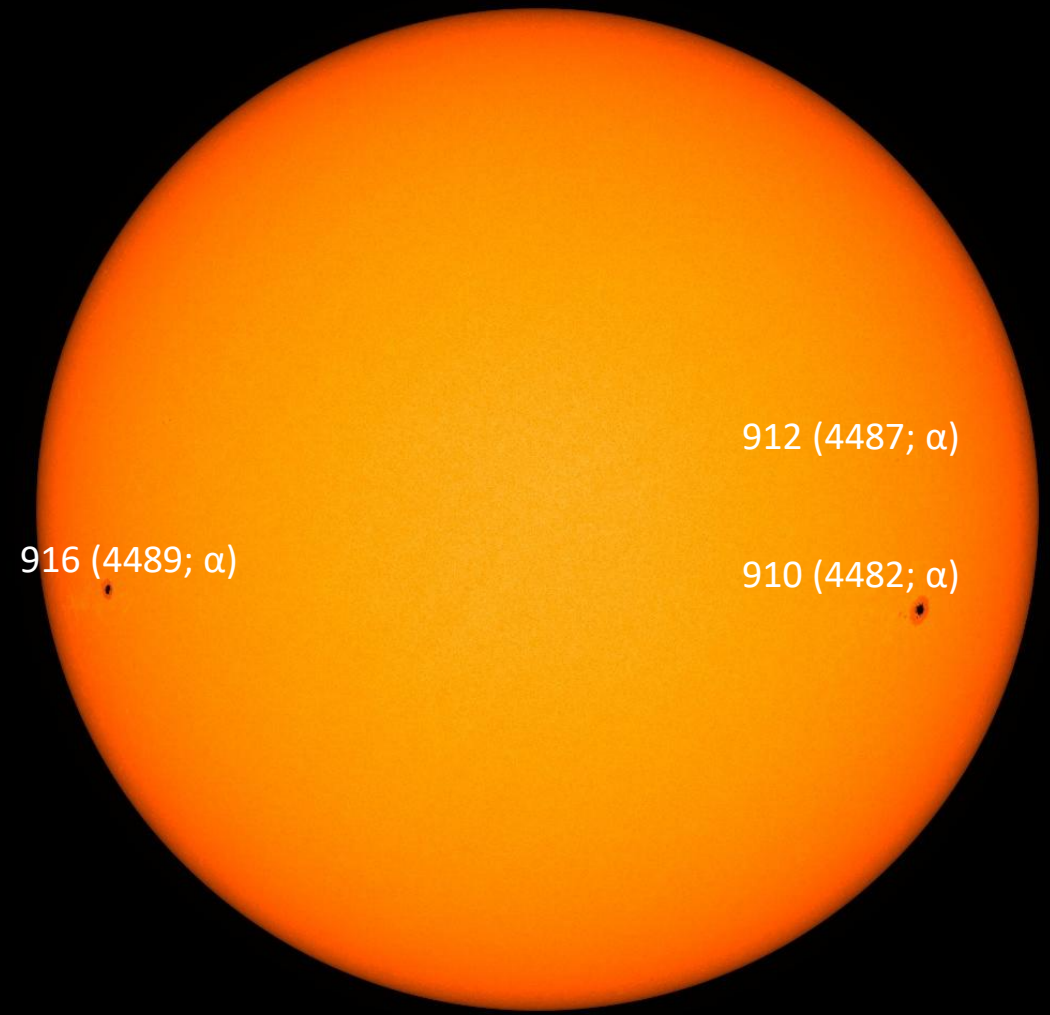


SDO/HMI Magnetogram 2026-07-13

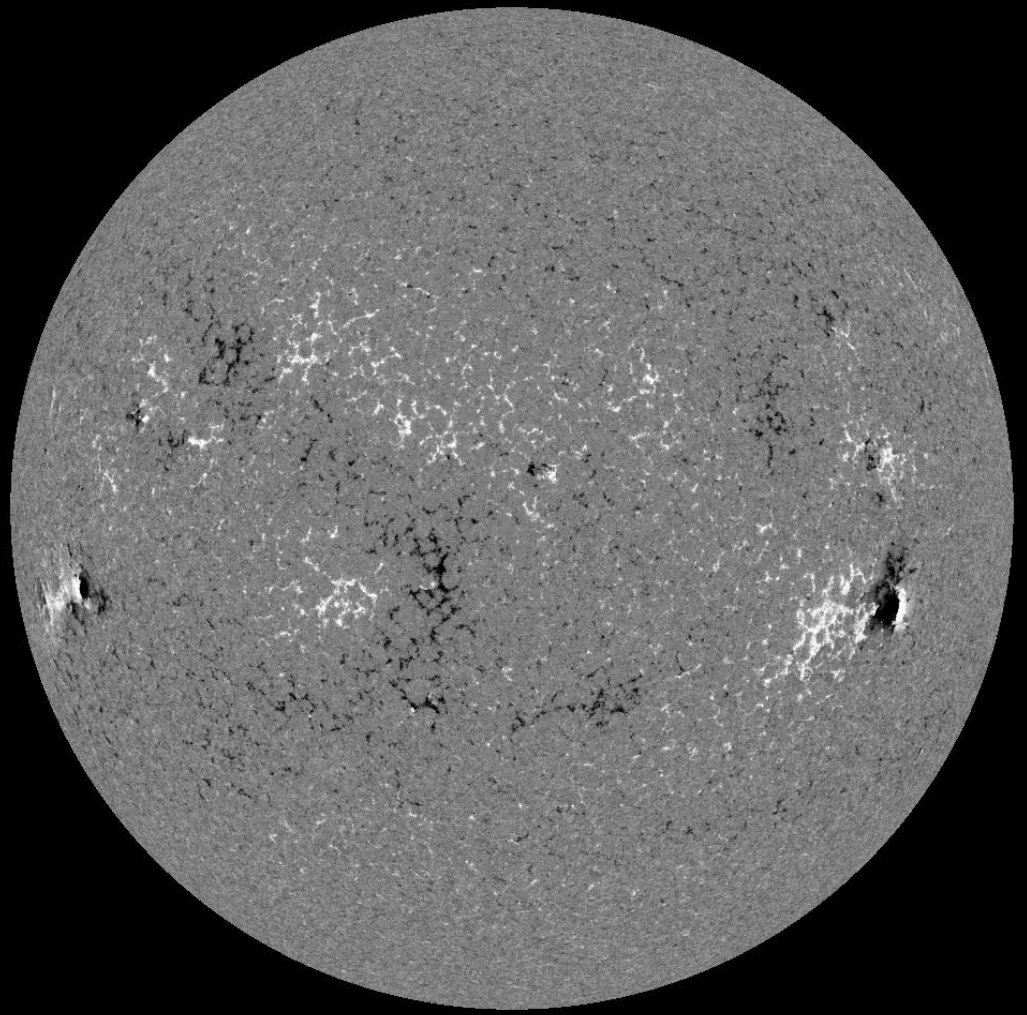


Solar active regions

SDO/HMI White Light 2026-07-14

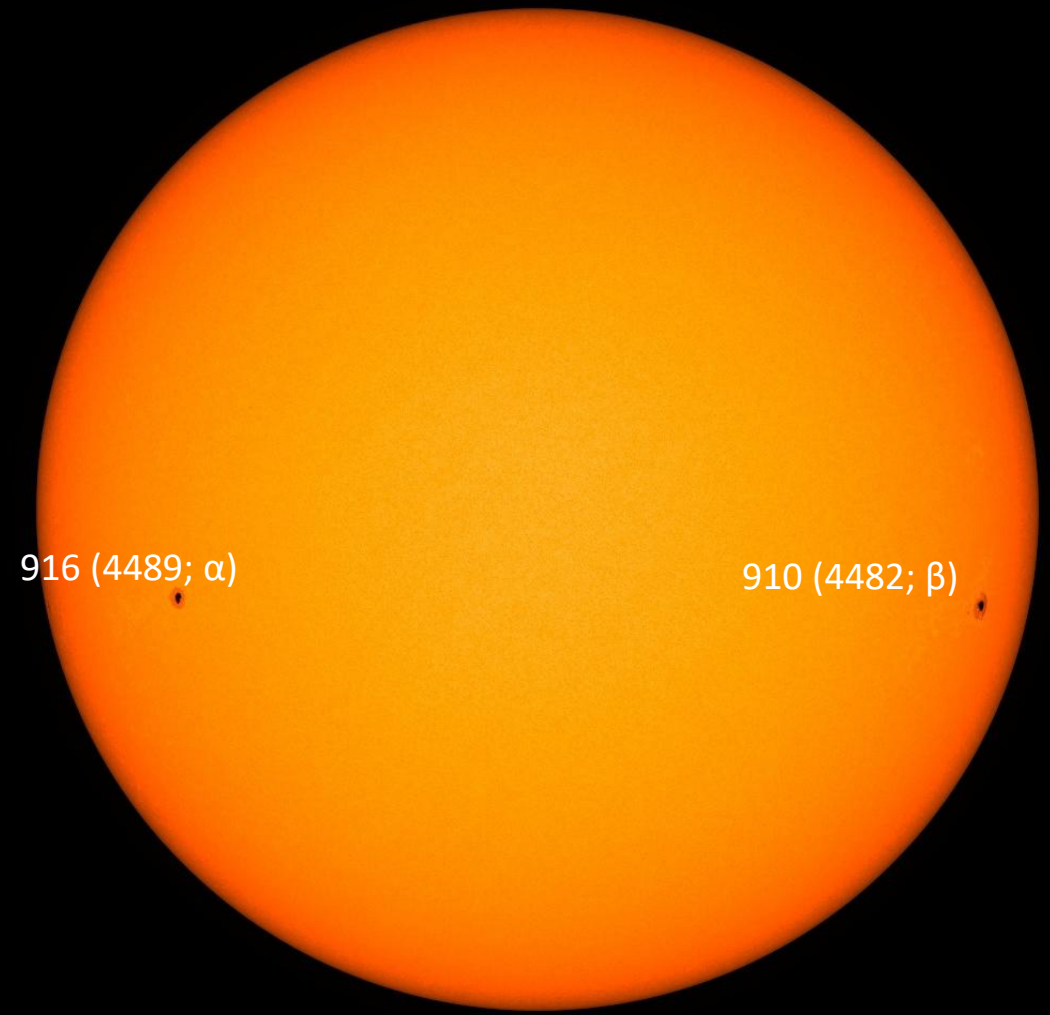


SDO/HMI Magnetogram 2026-07-14

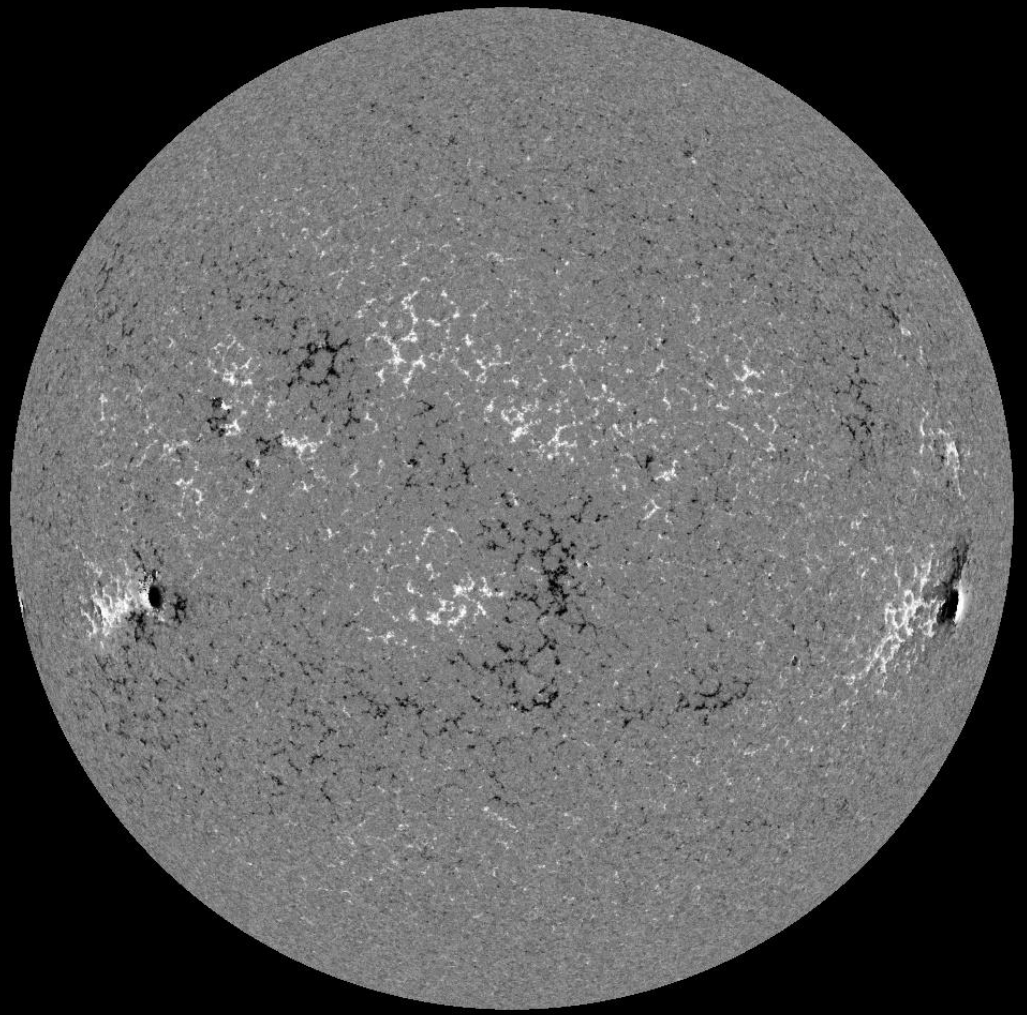


Solar active regions

SDO/HMI White Light 2026-07-15

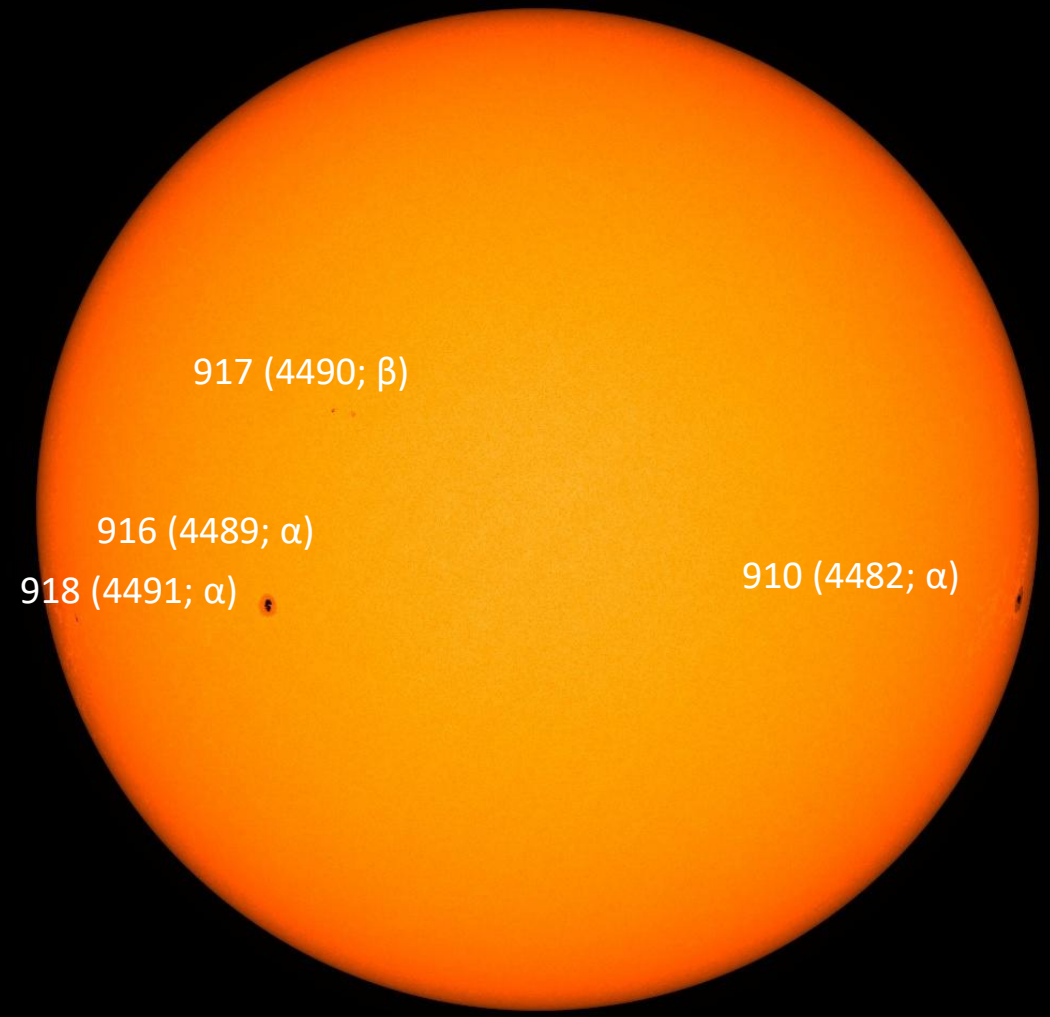


SDO/HMI Magnetogram 2026-07-15

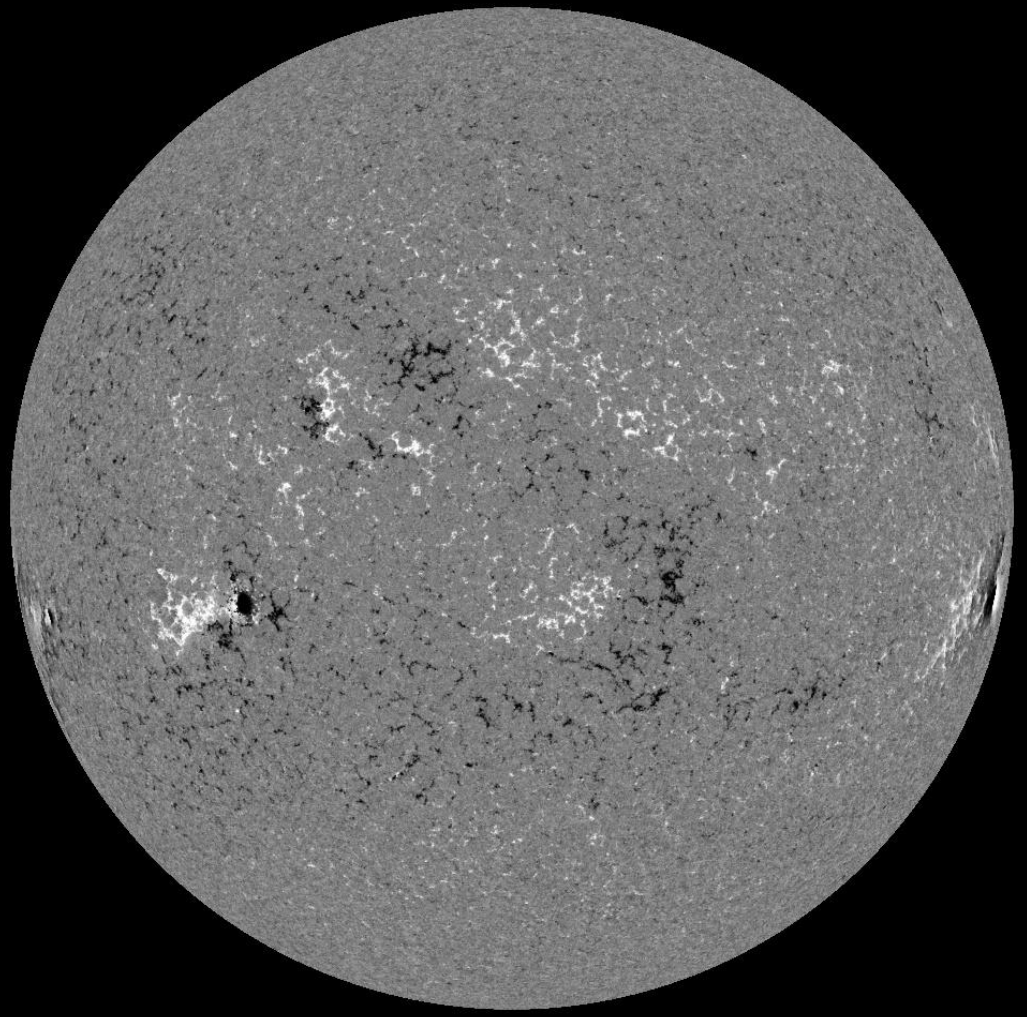


Solar active regions

SDO/HMI White Light 2026-07-16

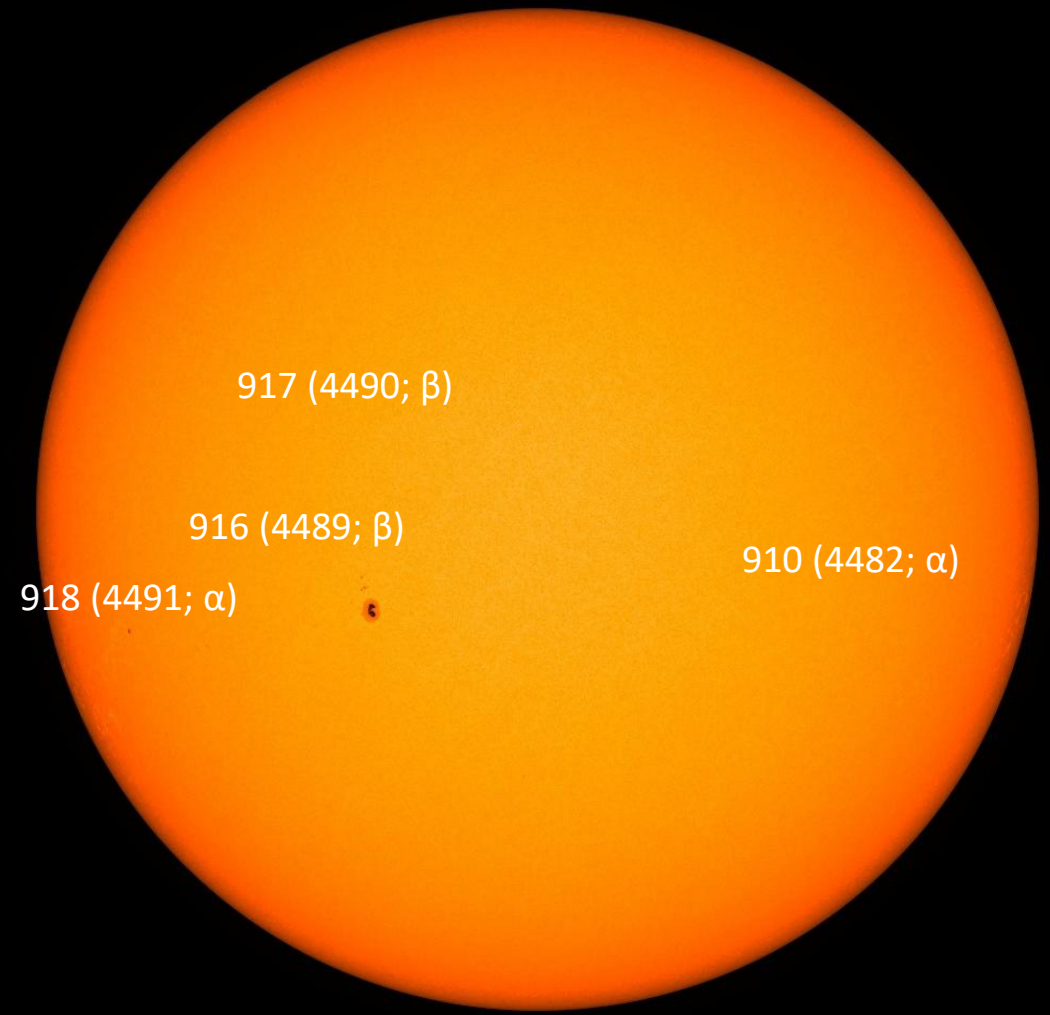


SDO/HMI Magnetogram 2026-07-16

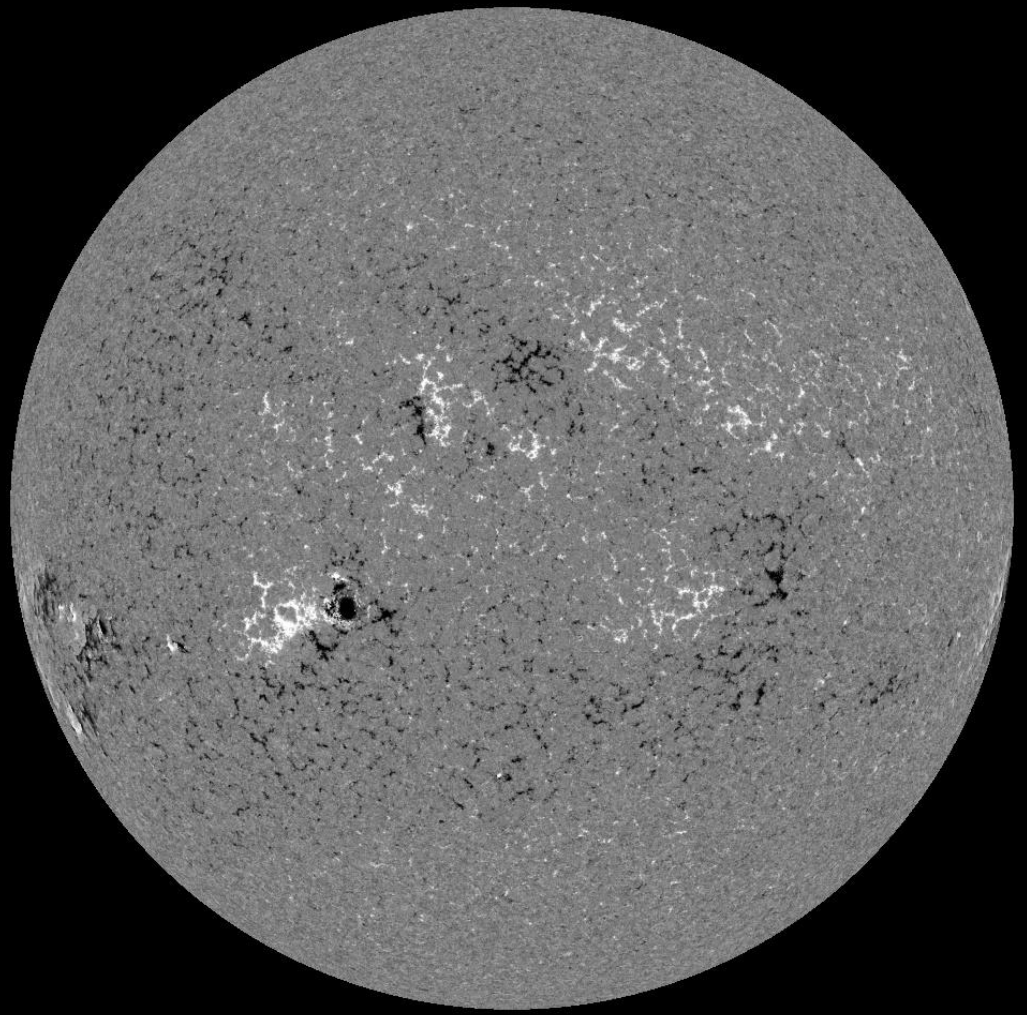


Solar active regions

SDO/HMI White Light 2026-07-17

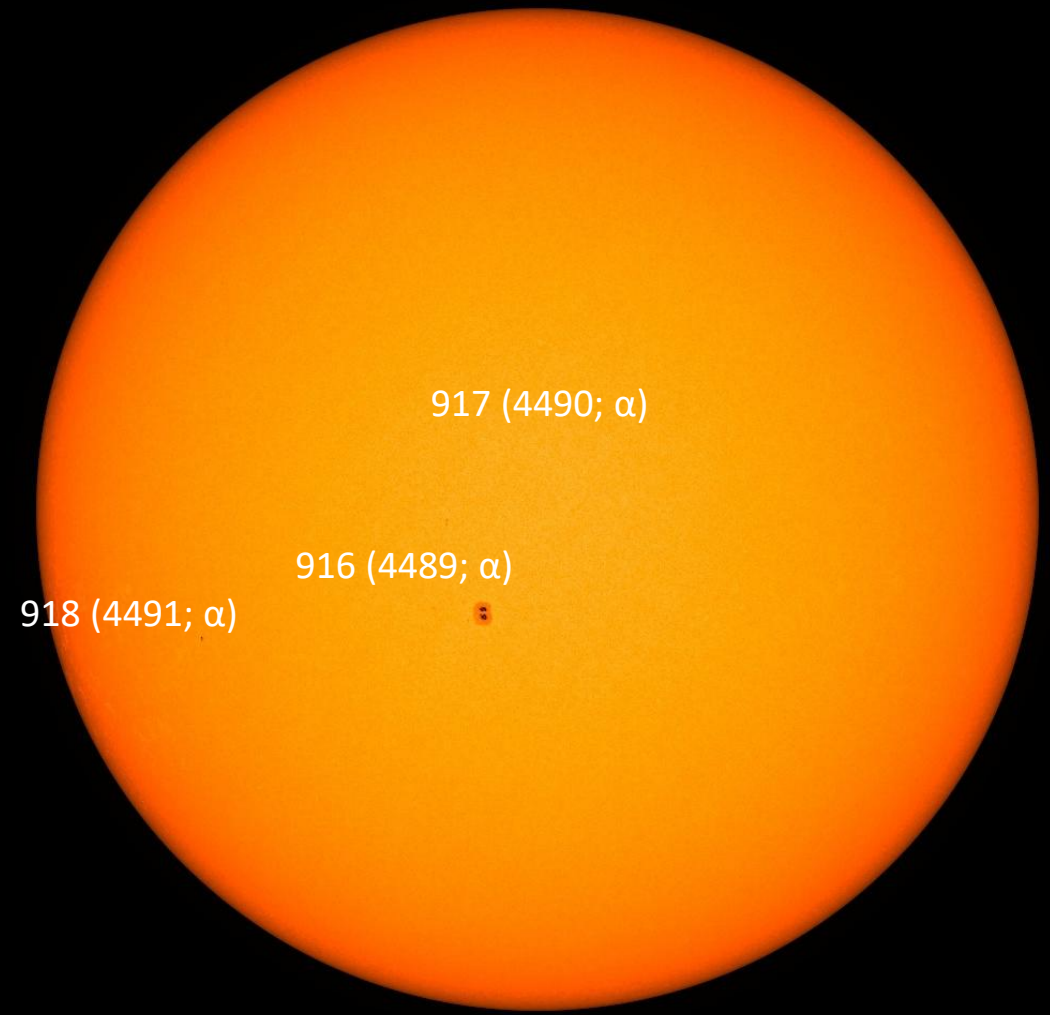


SDO/HMI Magnetogram 2026-07-17

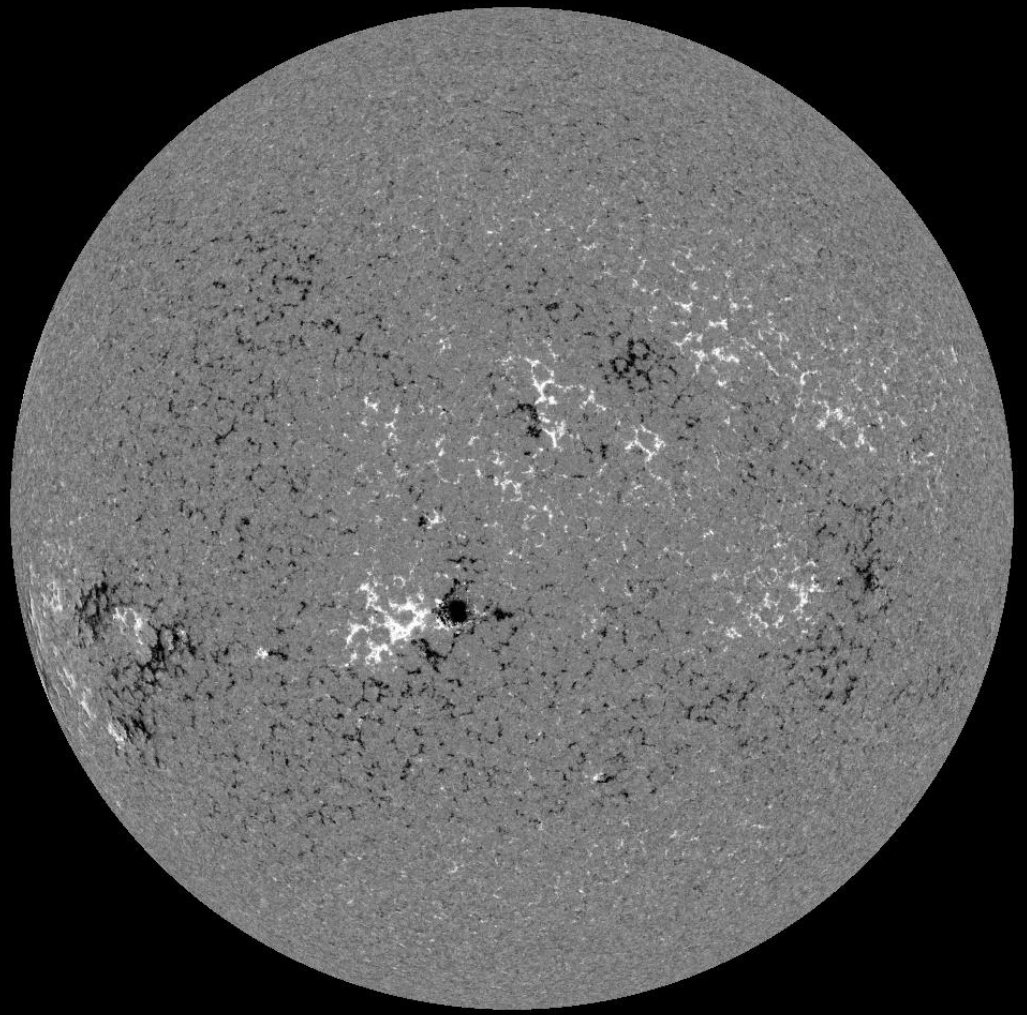


Solar active regions

SDO/HMI White Light 2026-07-18

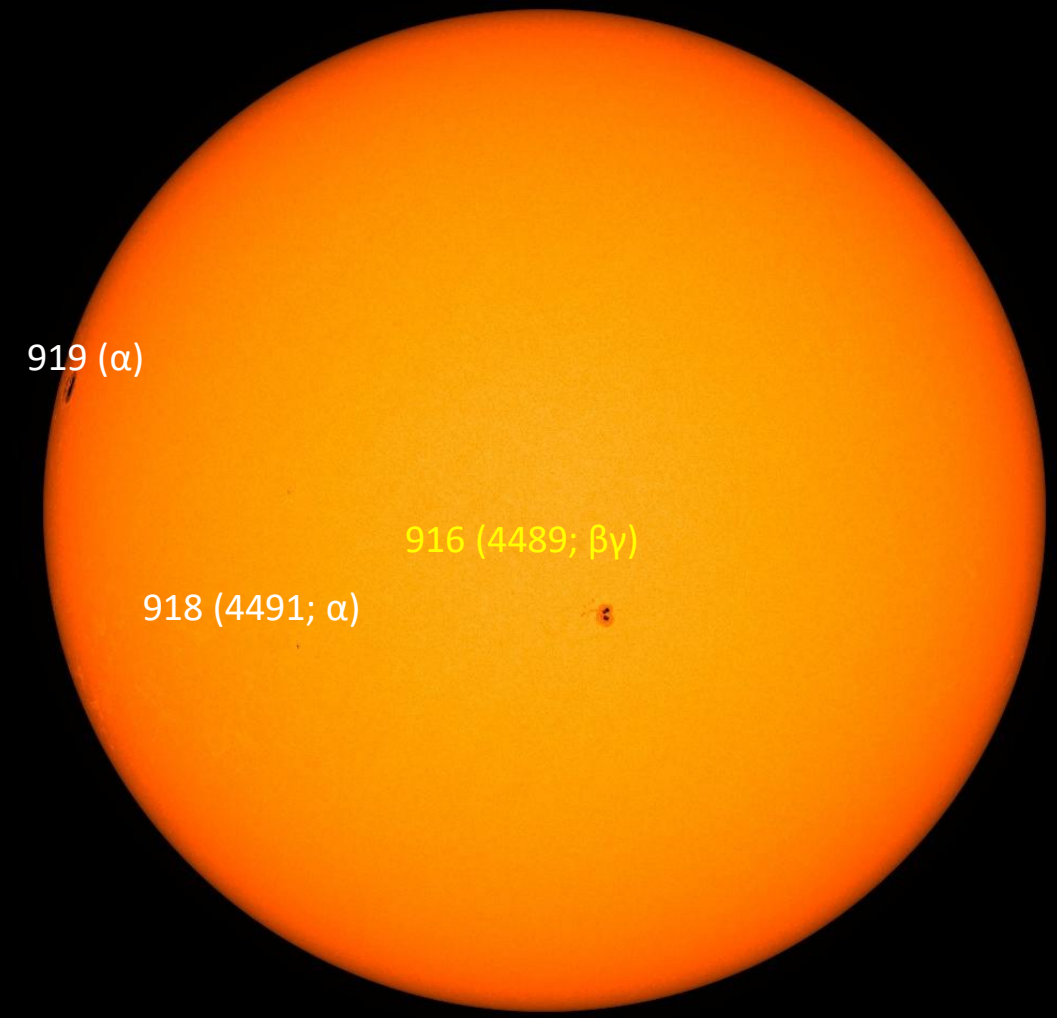


SDO/HMI Magnetogram 2026-07-18

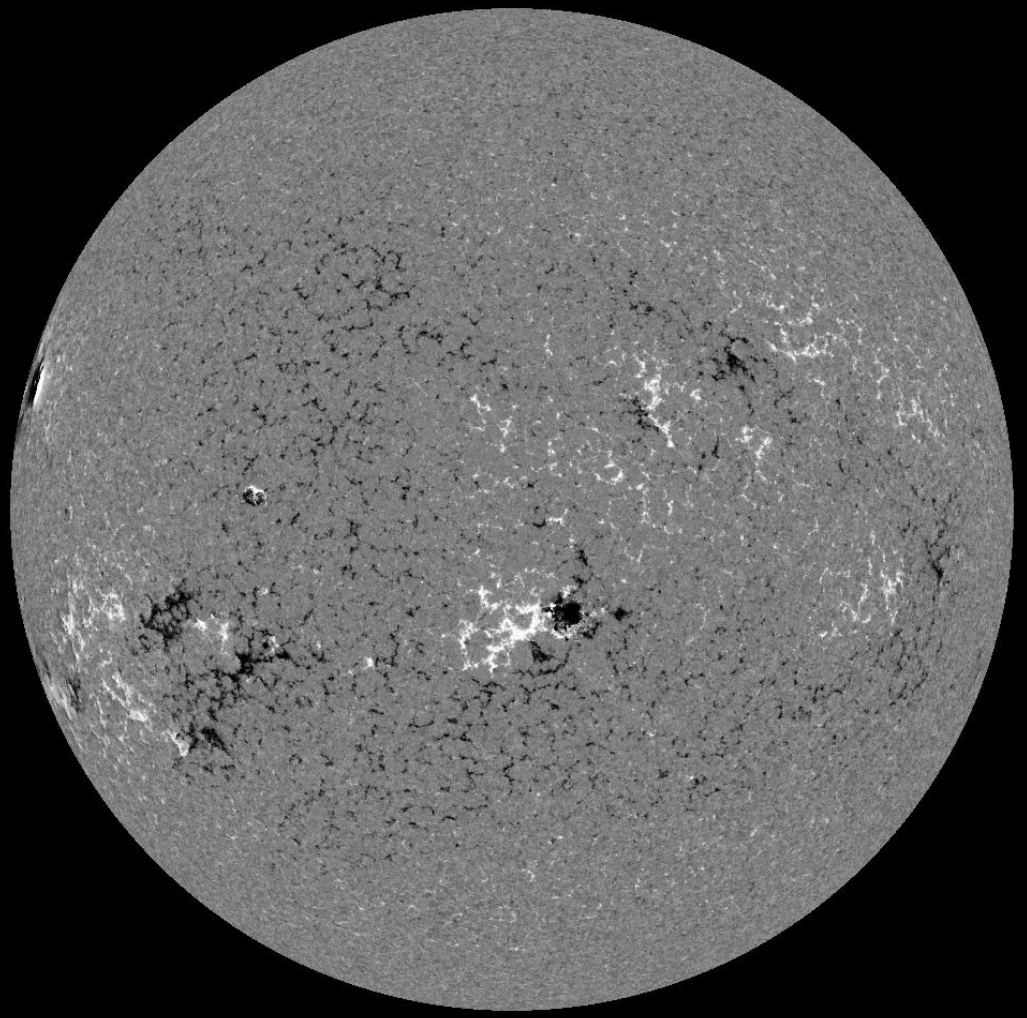


Solar active regions

SDO/HMI White Light 2026-07-19

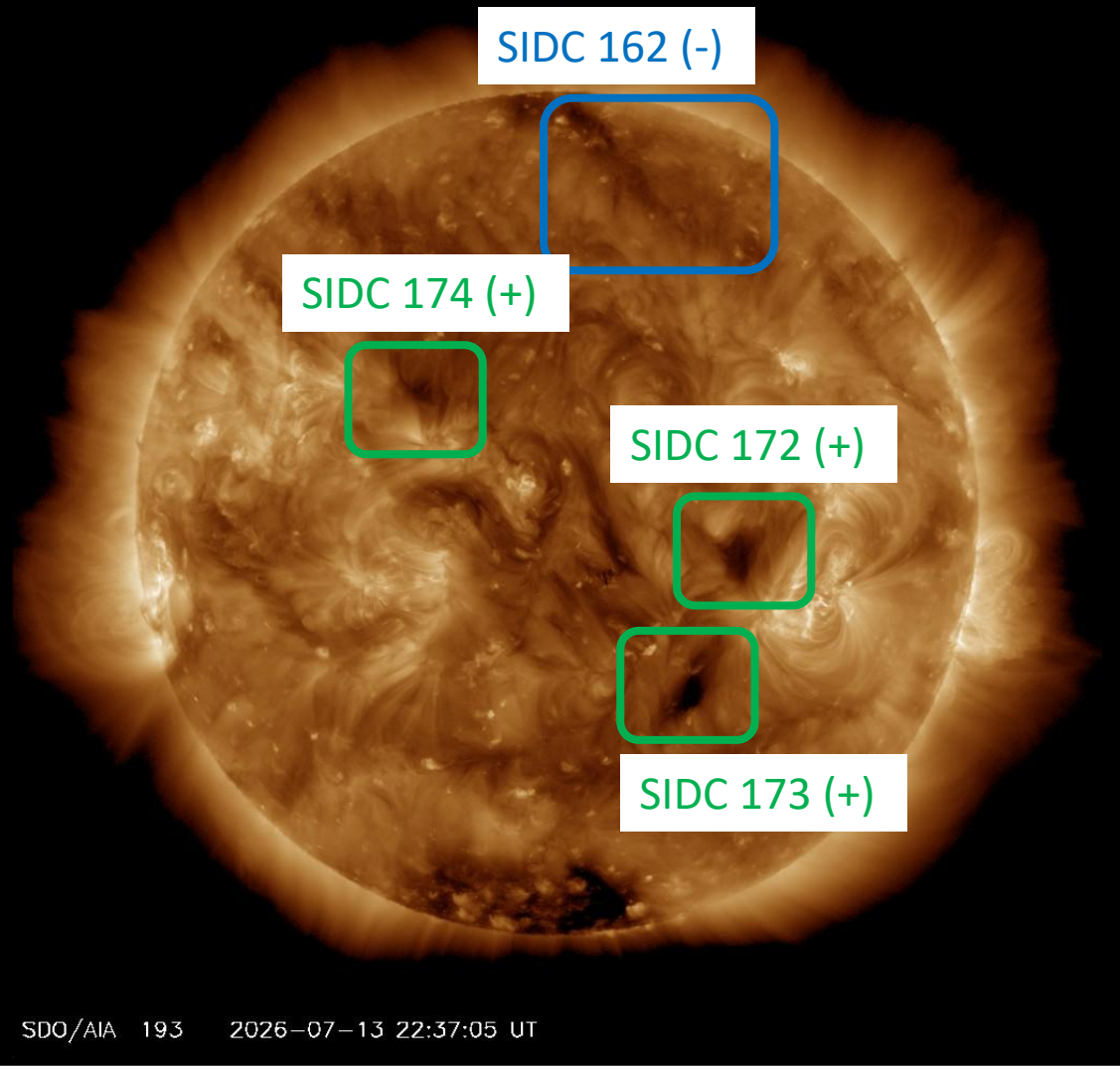


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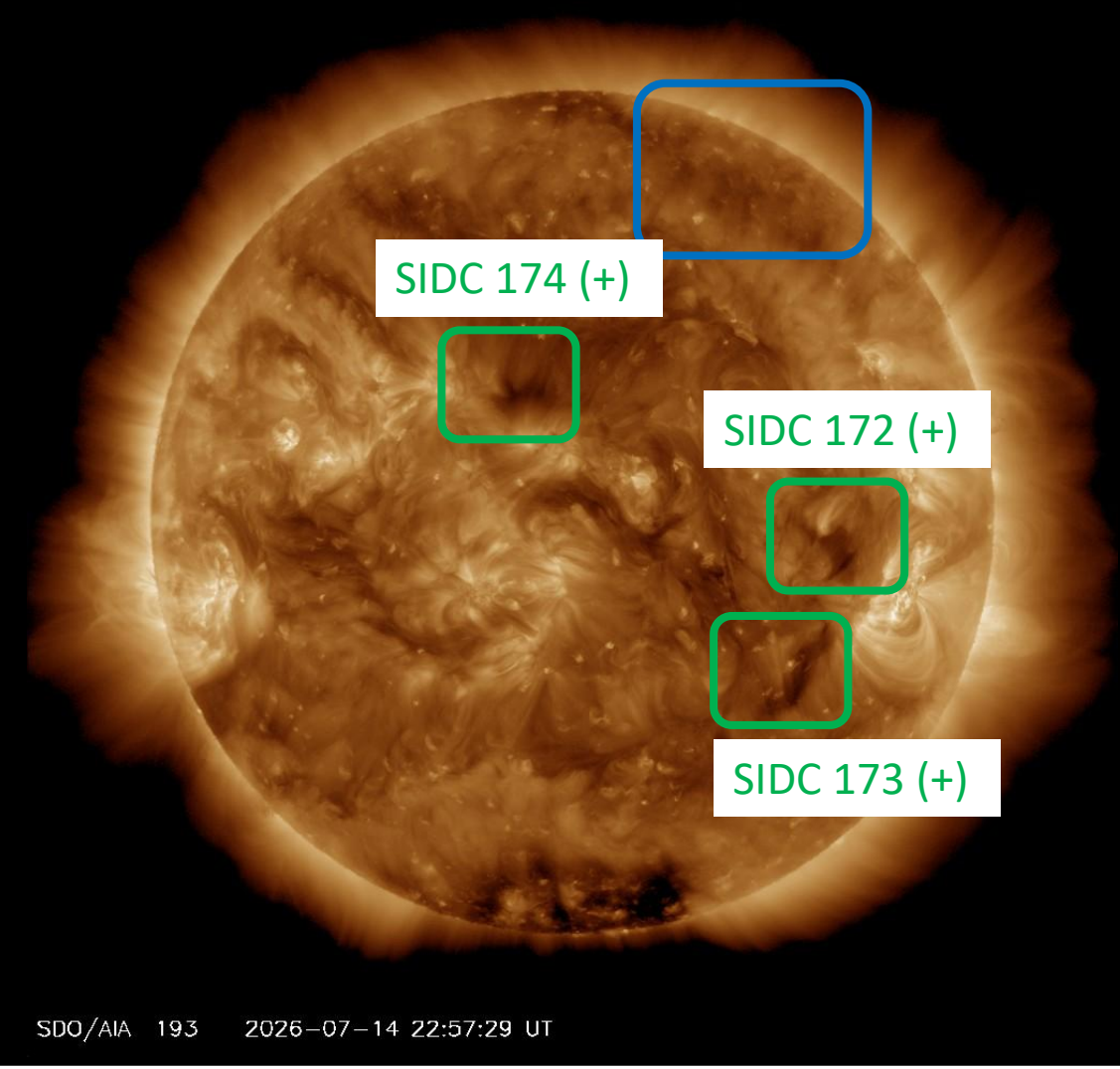


Coronal holes

SDO/AIA 19.3 nm 2026-07-13

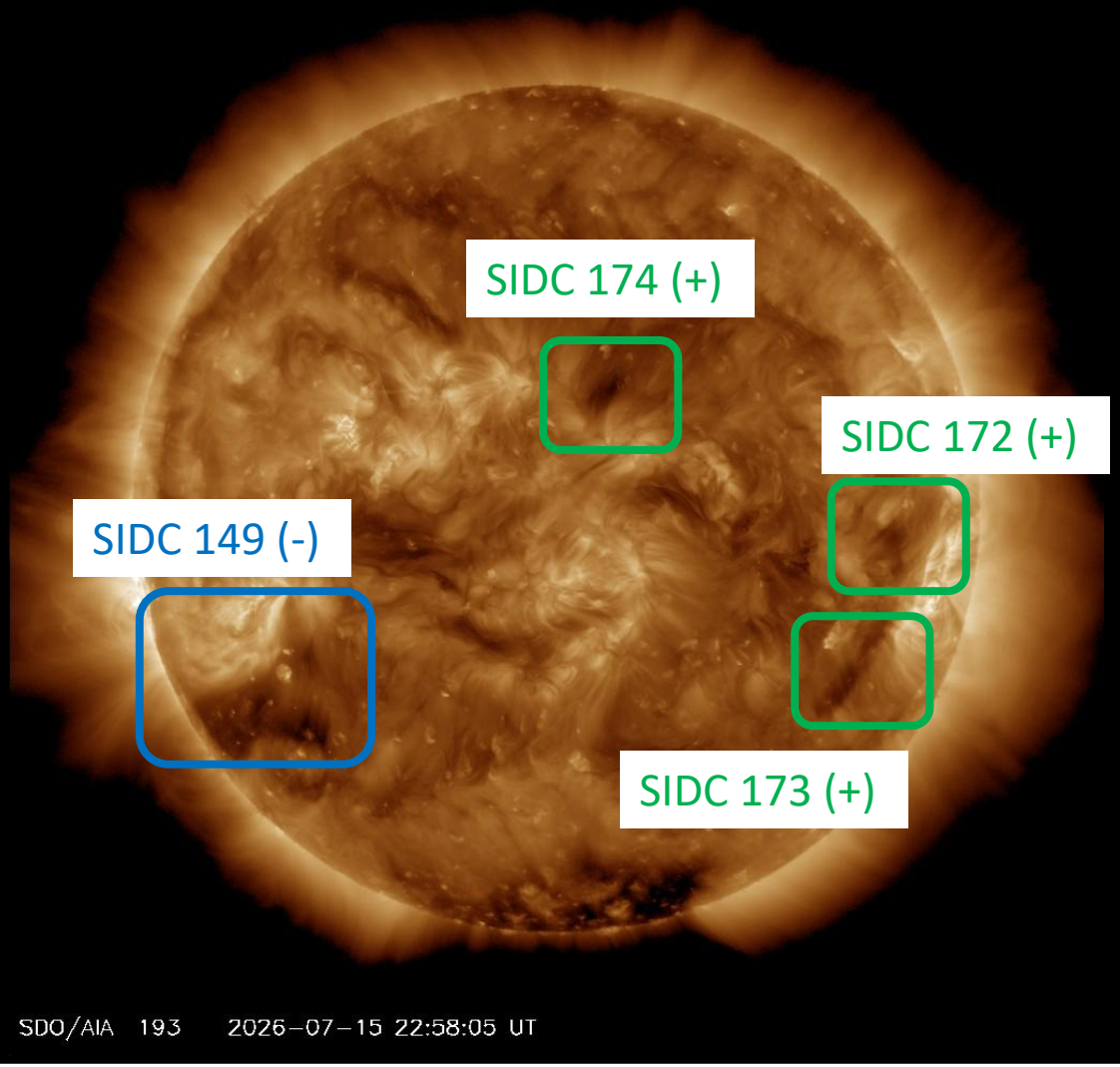


SDO/AIA 19.3 nm 2026-07-14

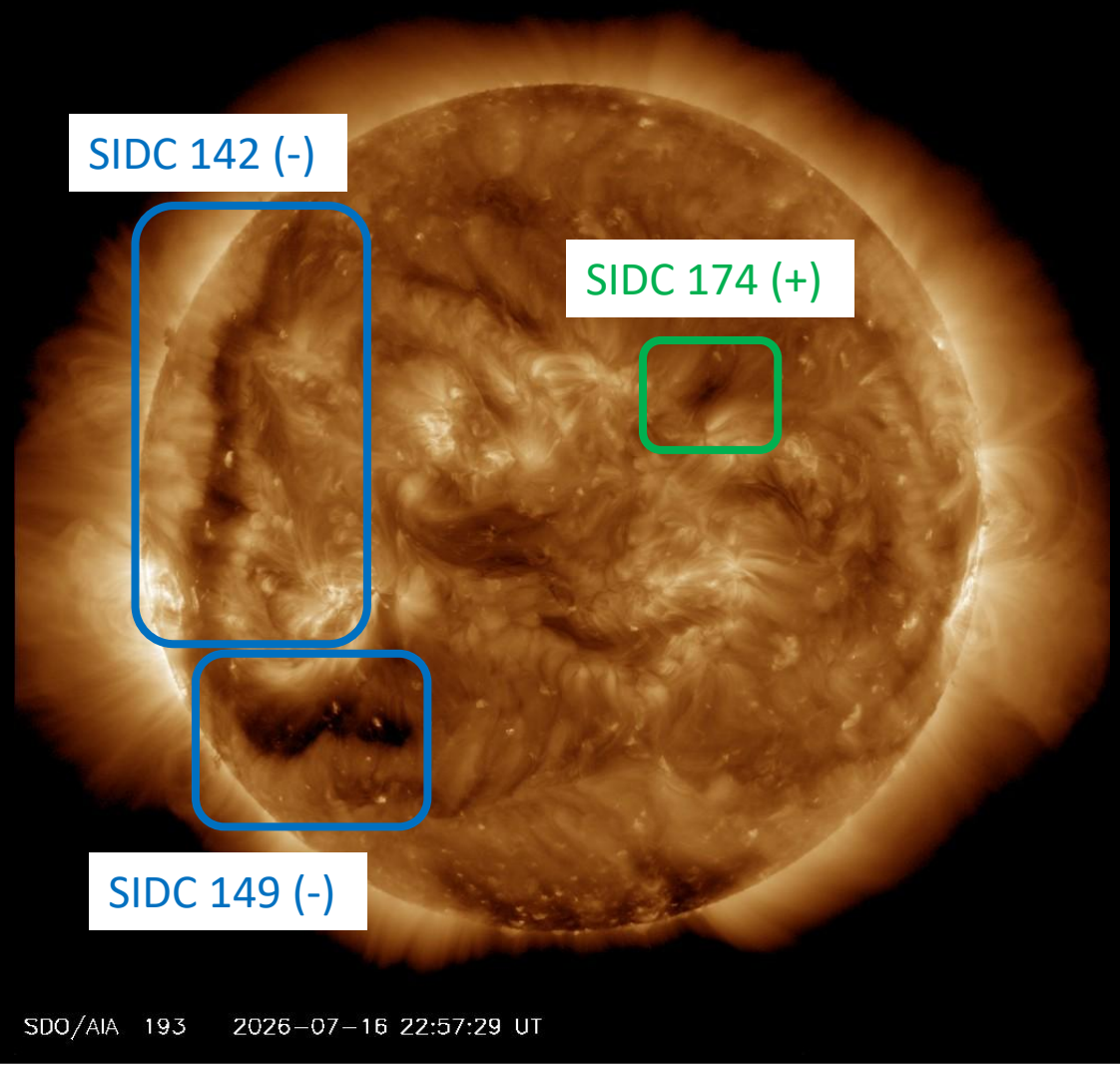


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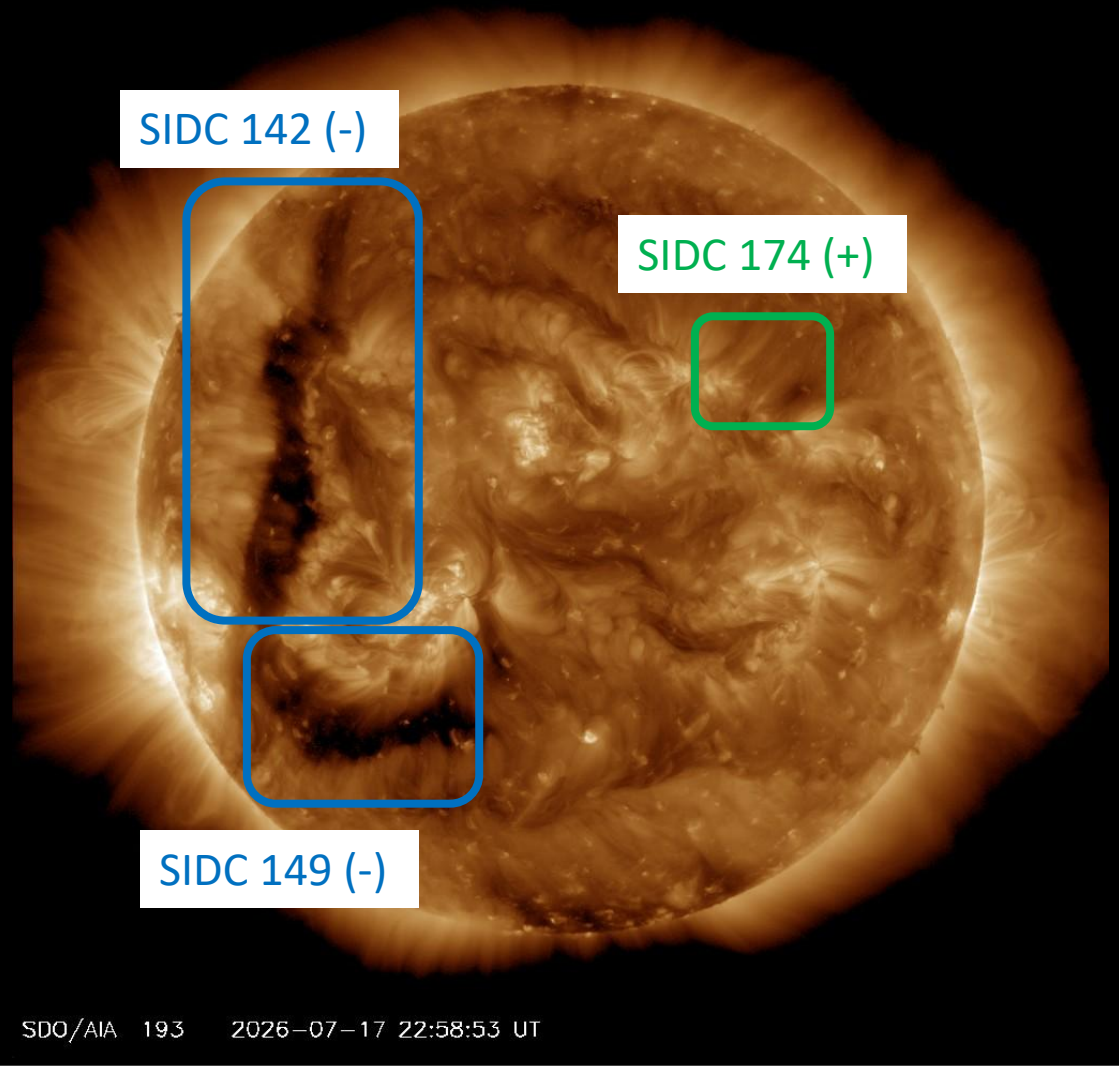


SDO/AIA 19.3 nm 2026-07-16

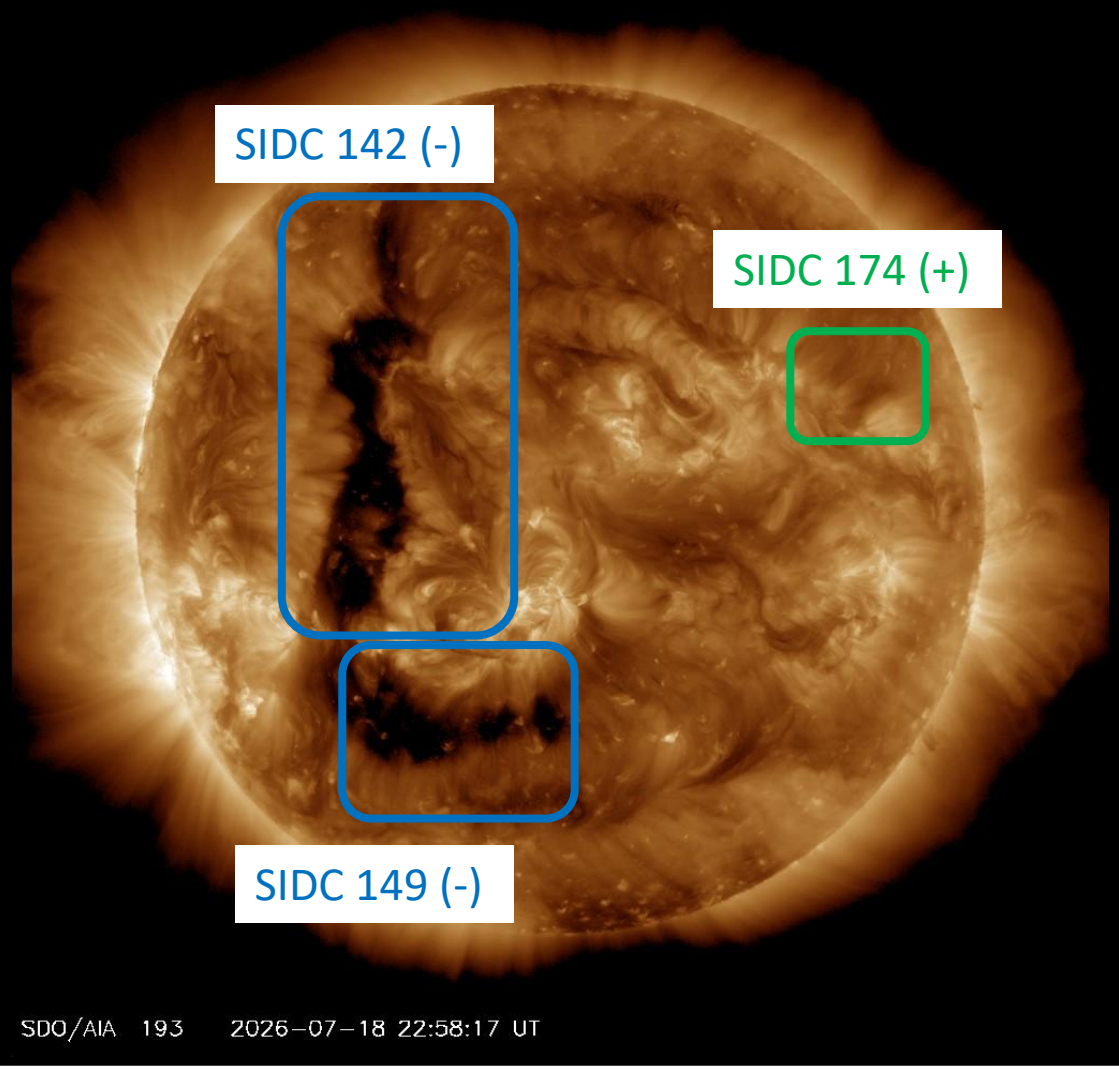


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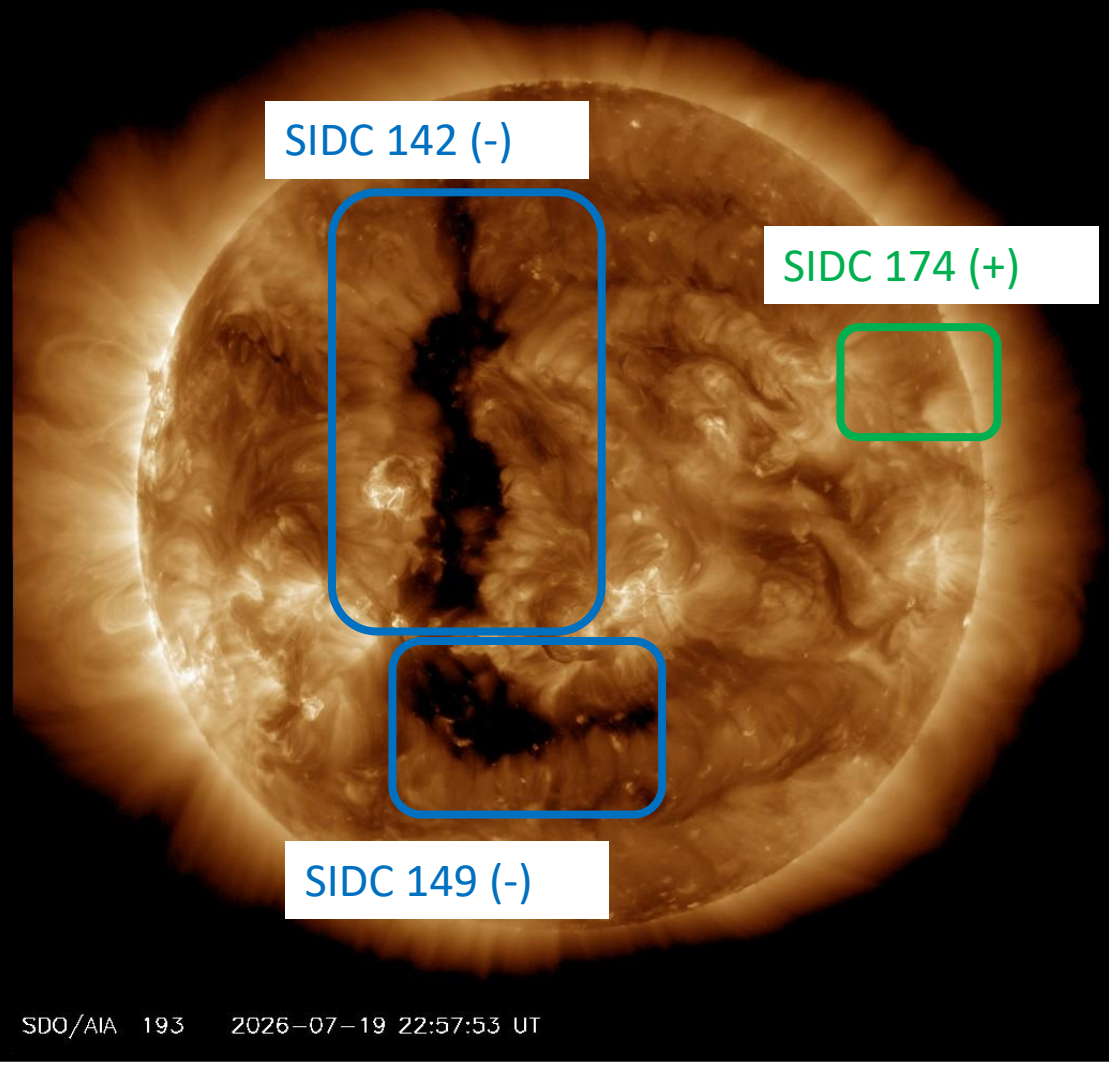


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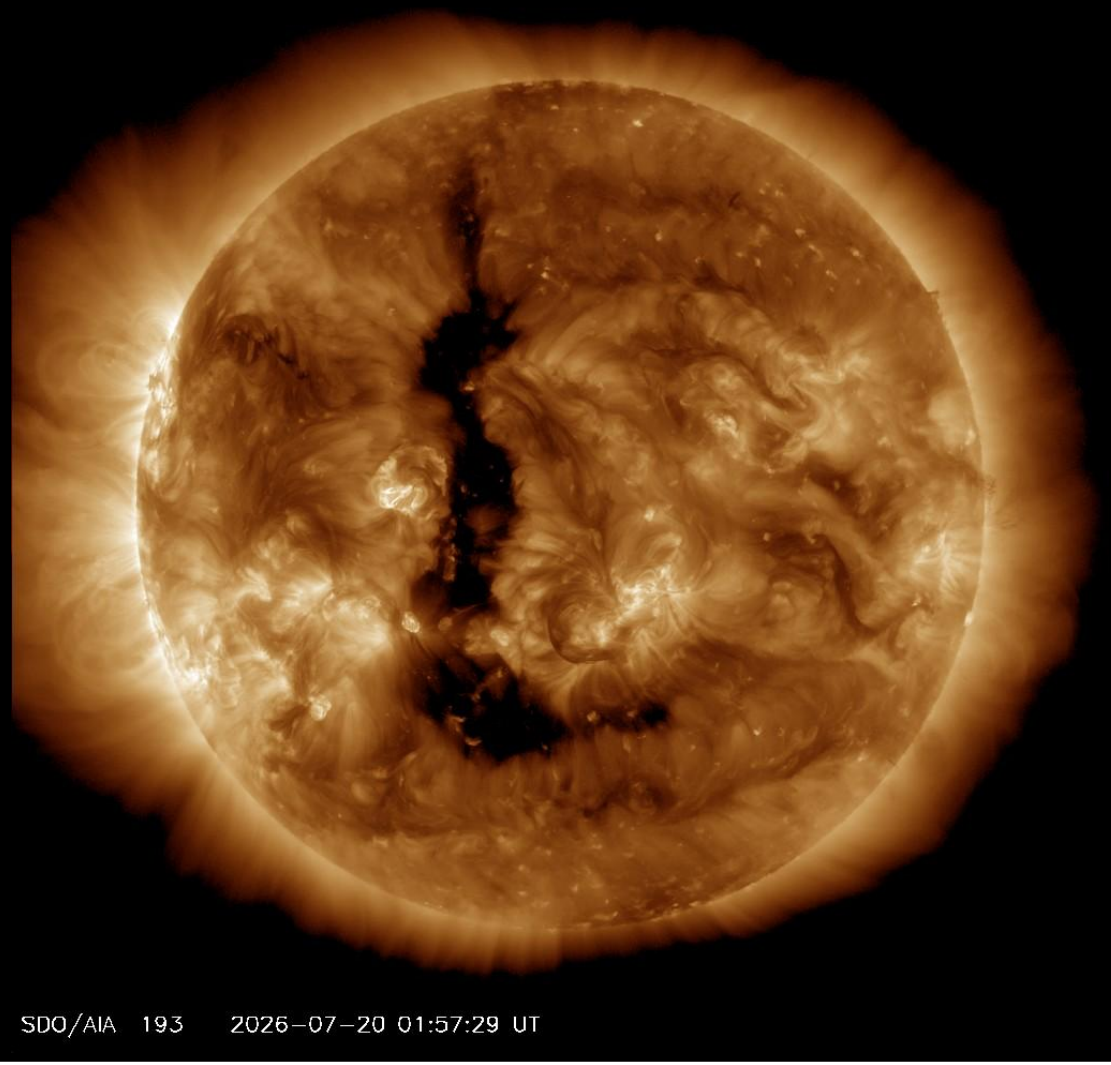


Coronal holes

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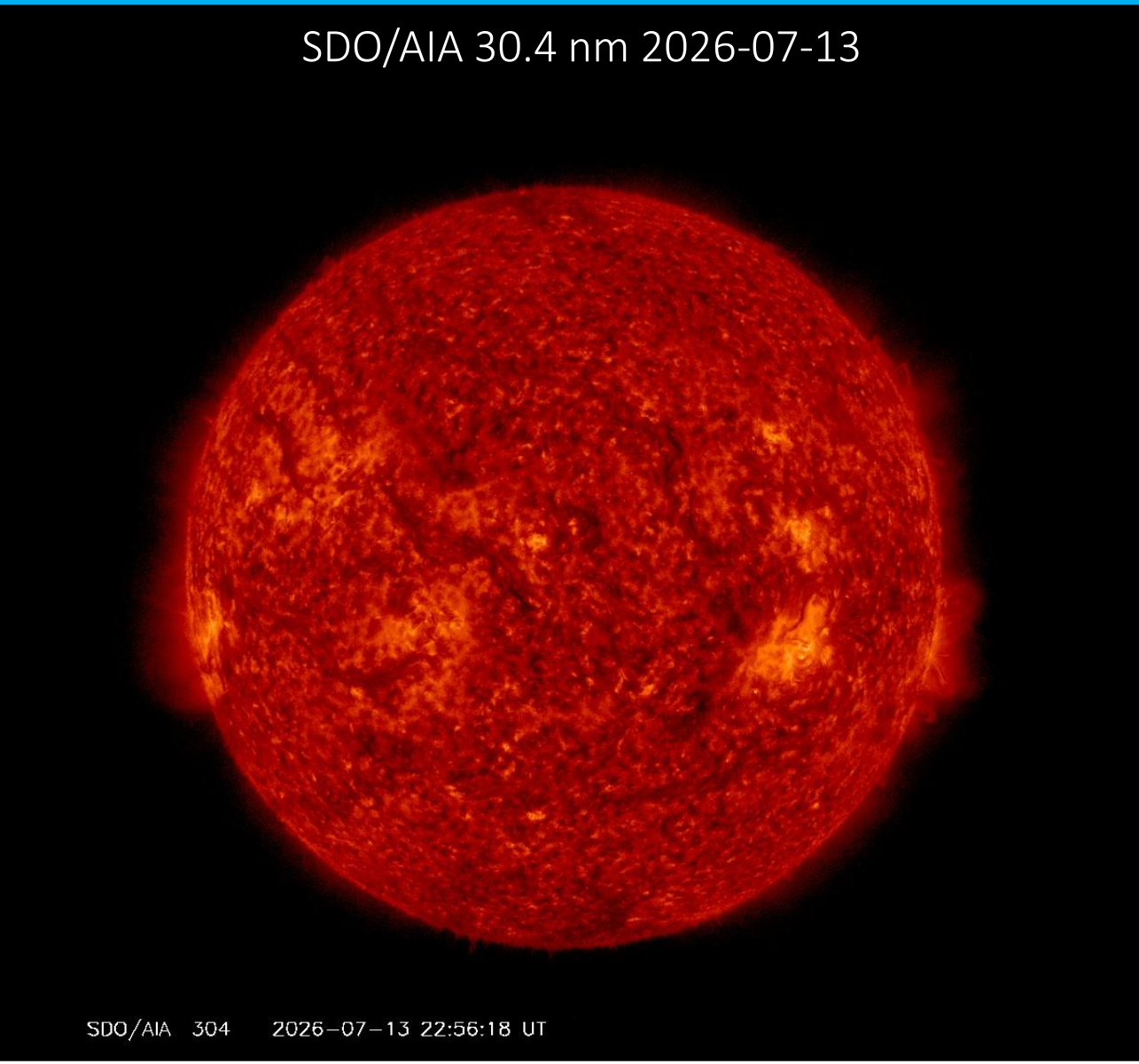


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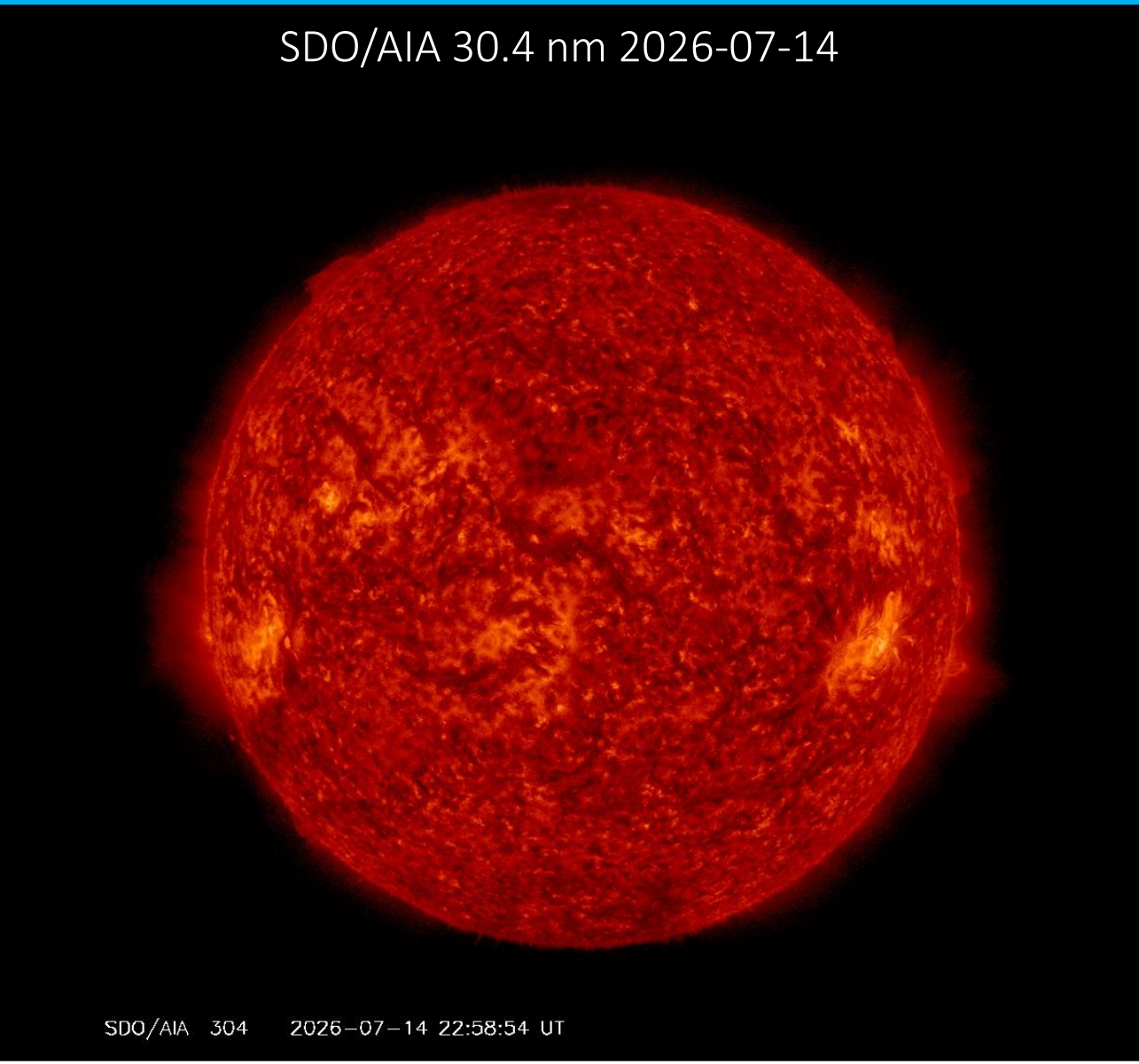


Filaments

SDO/AIA 30.4 nm 2026-07-13

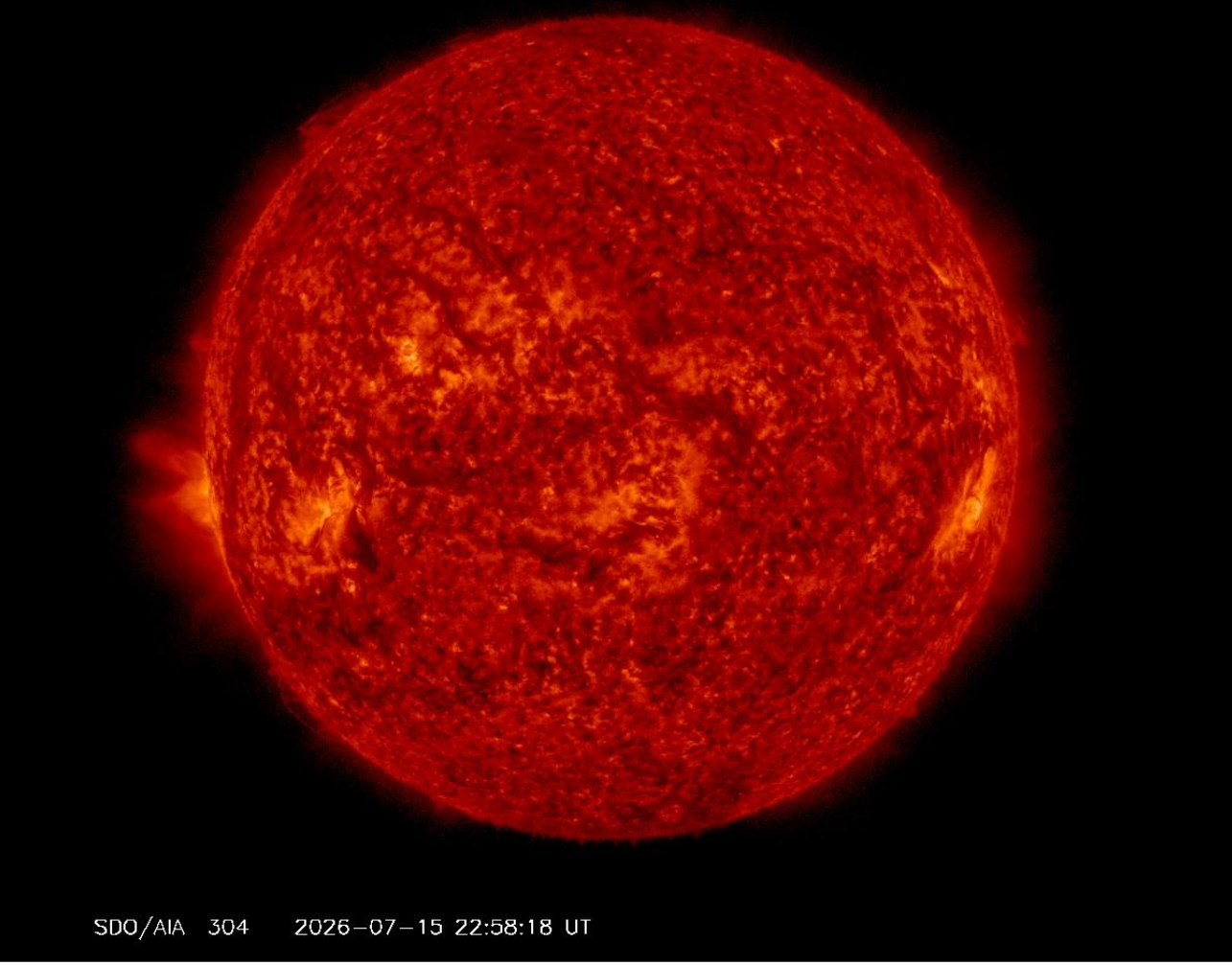


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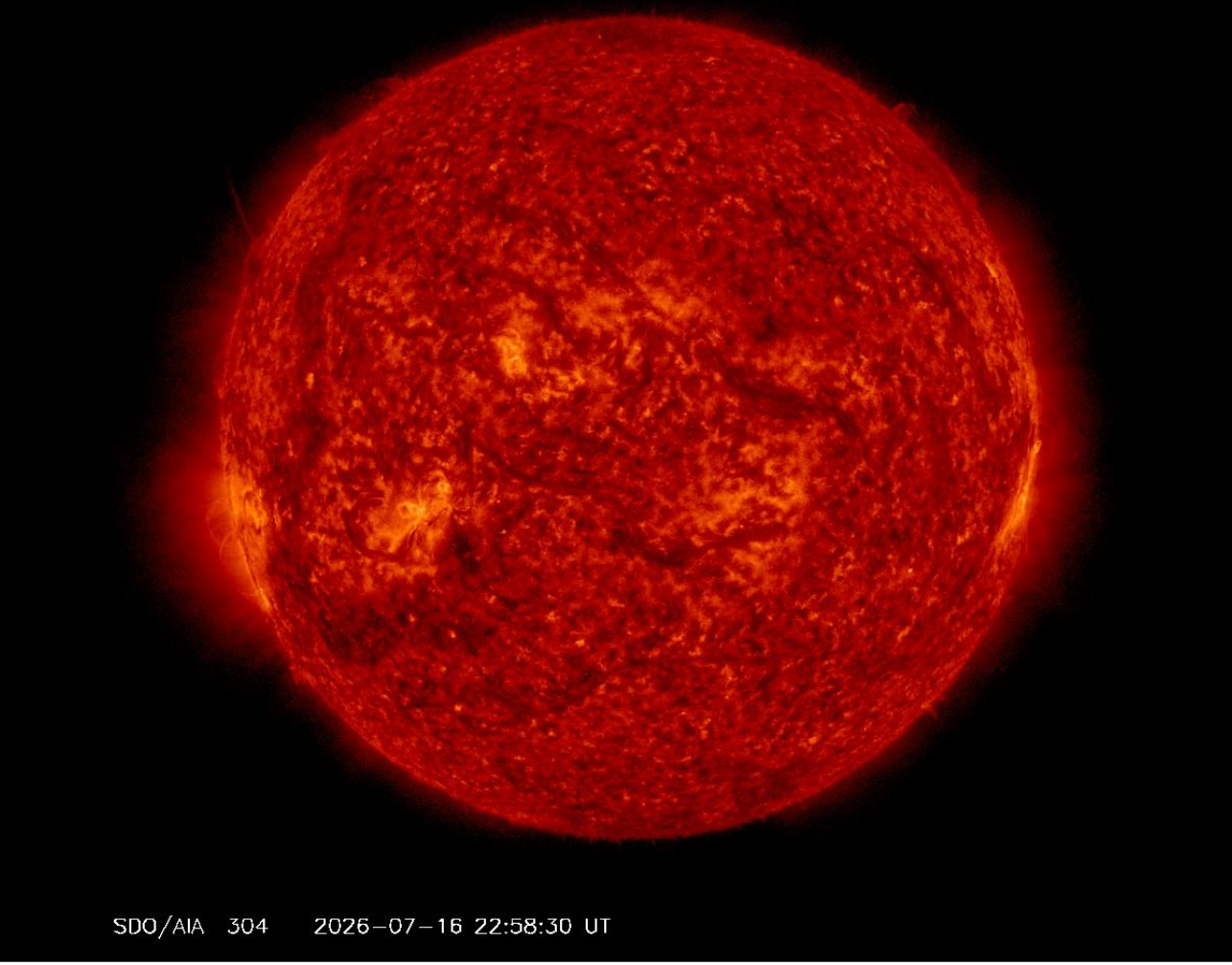


Filaments

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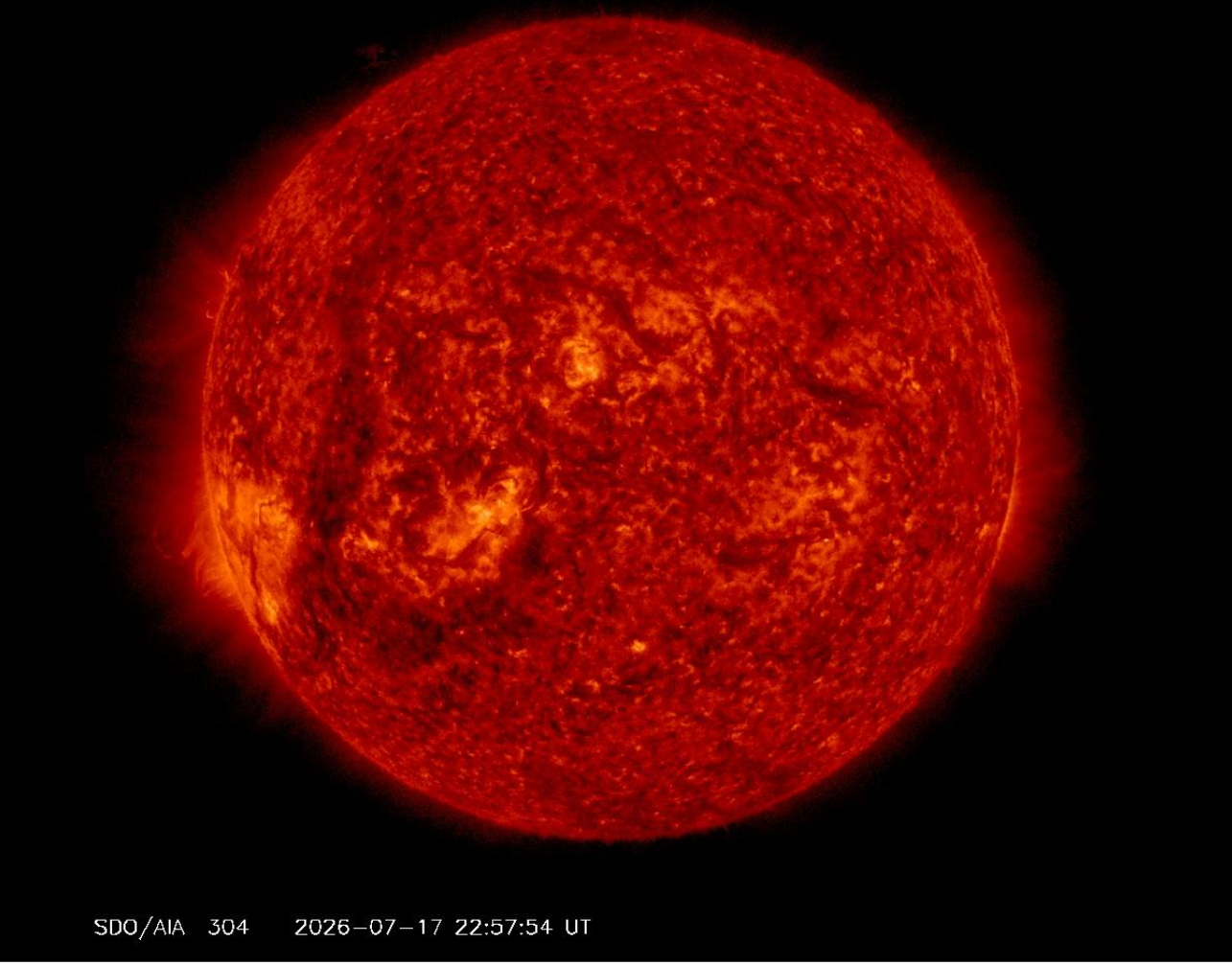


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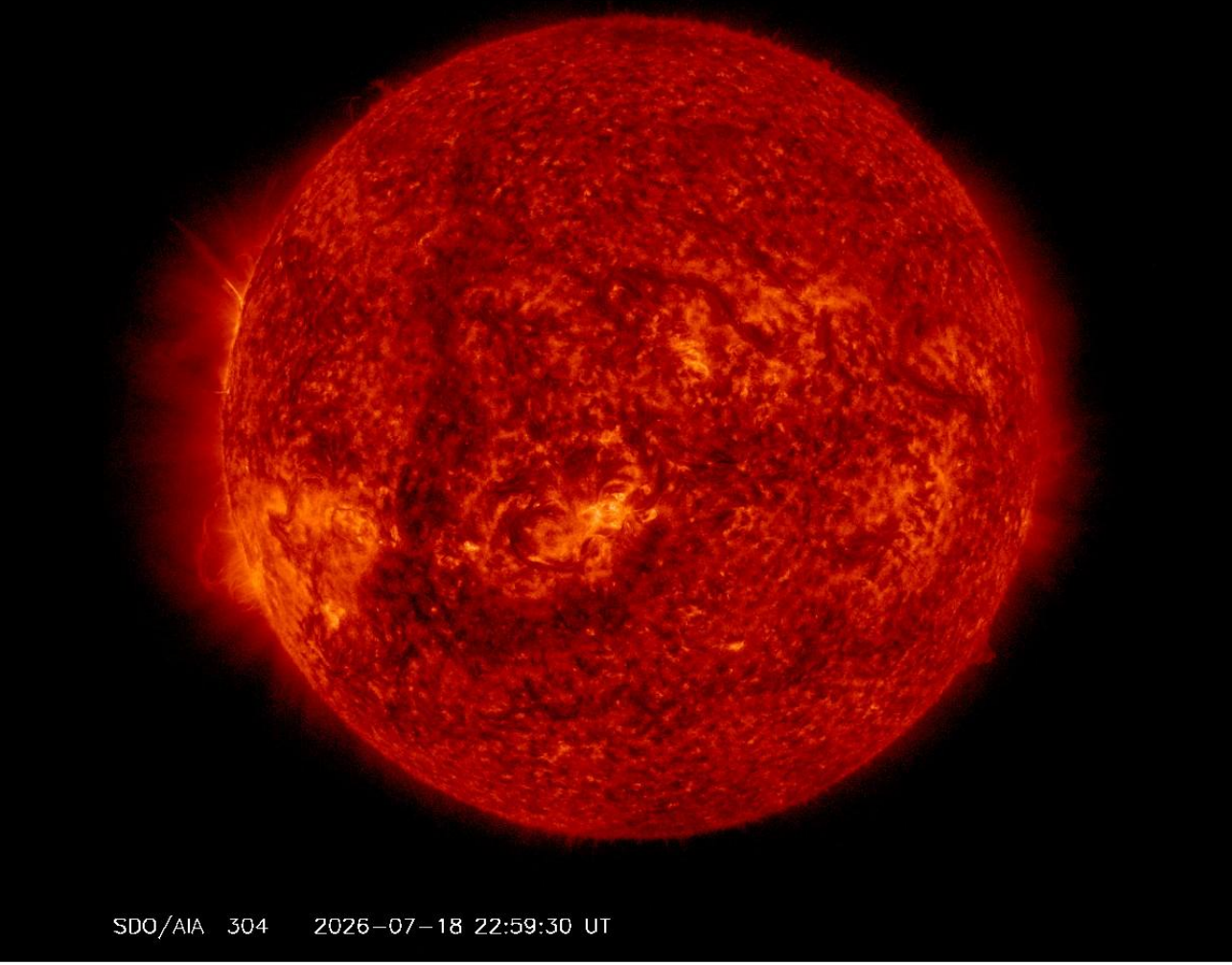


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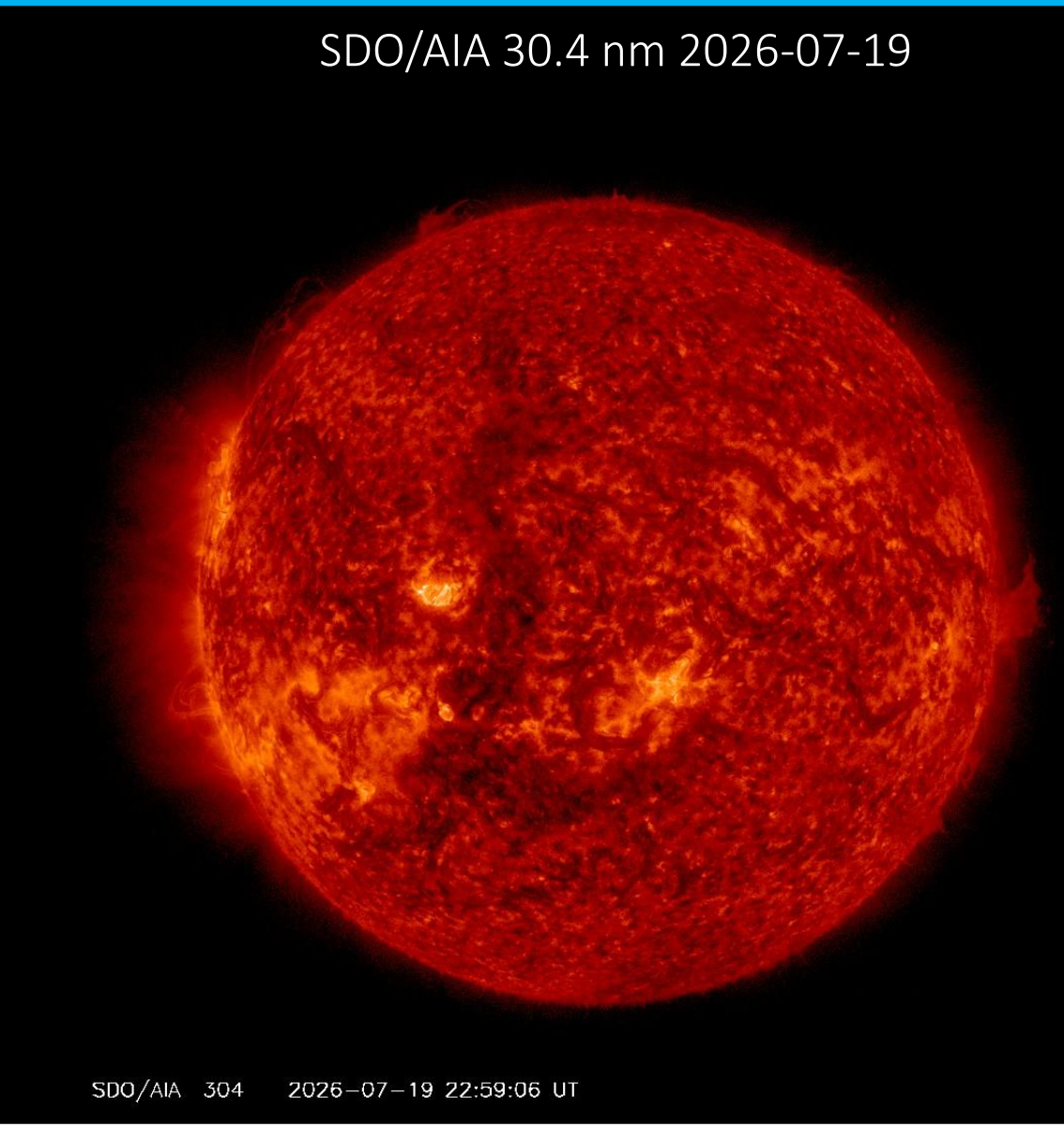


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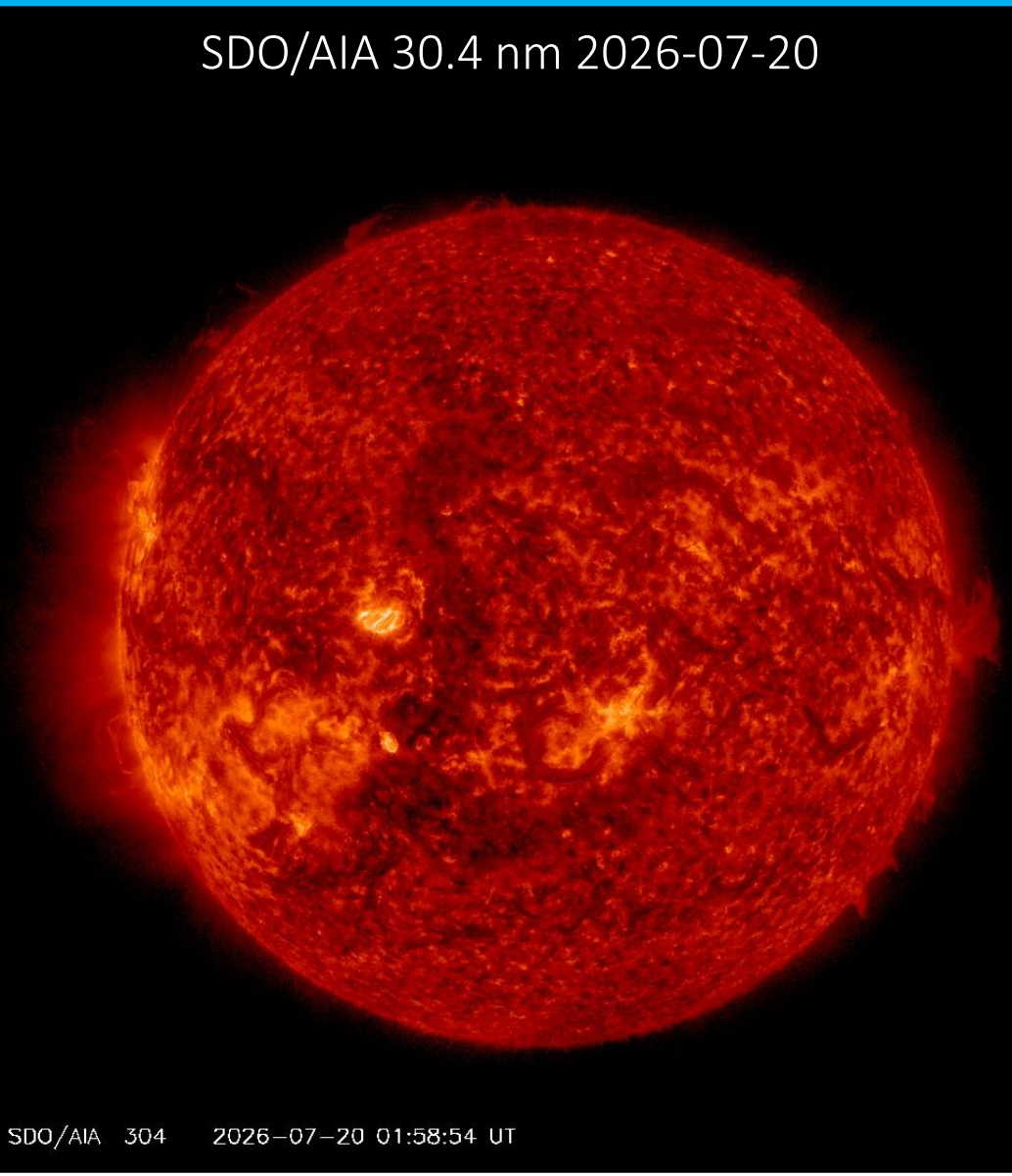


Filaments

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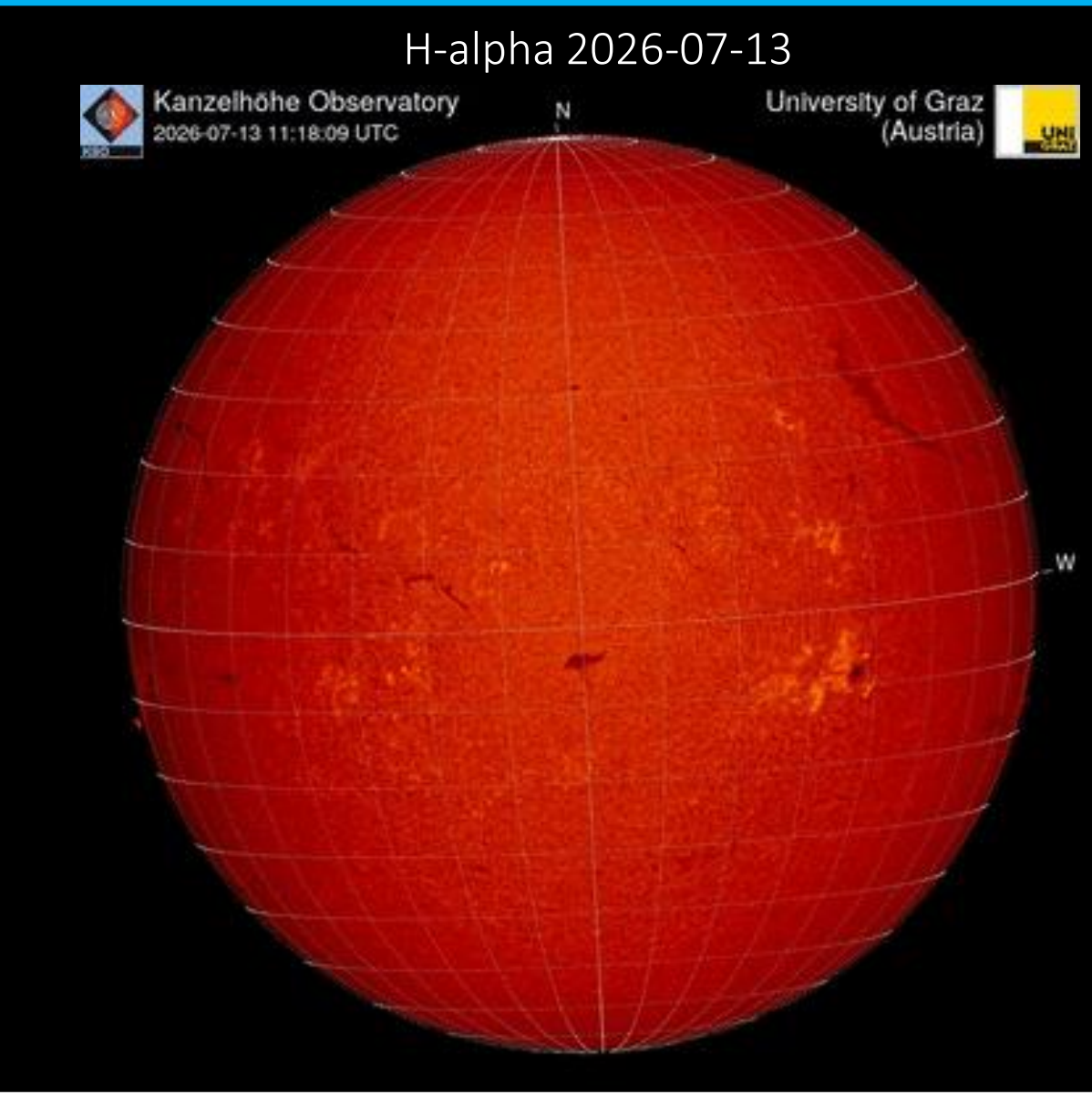


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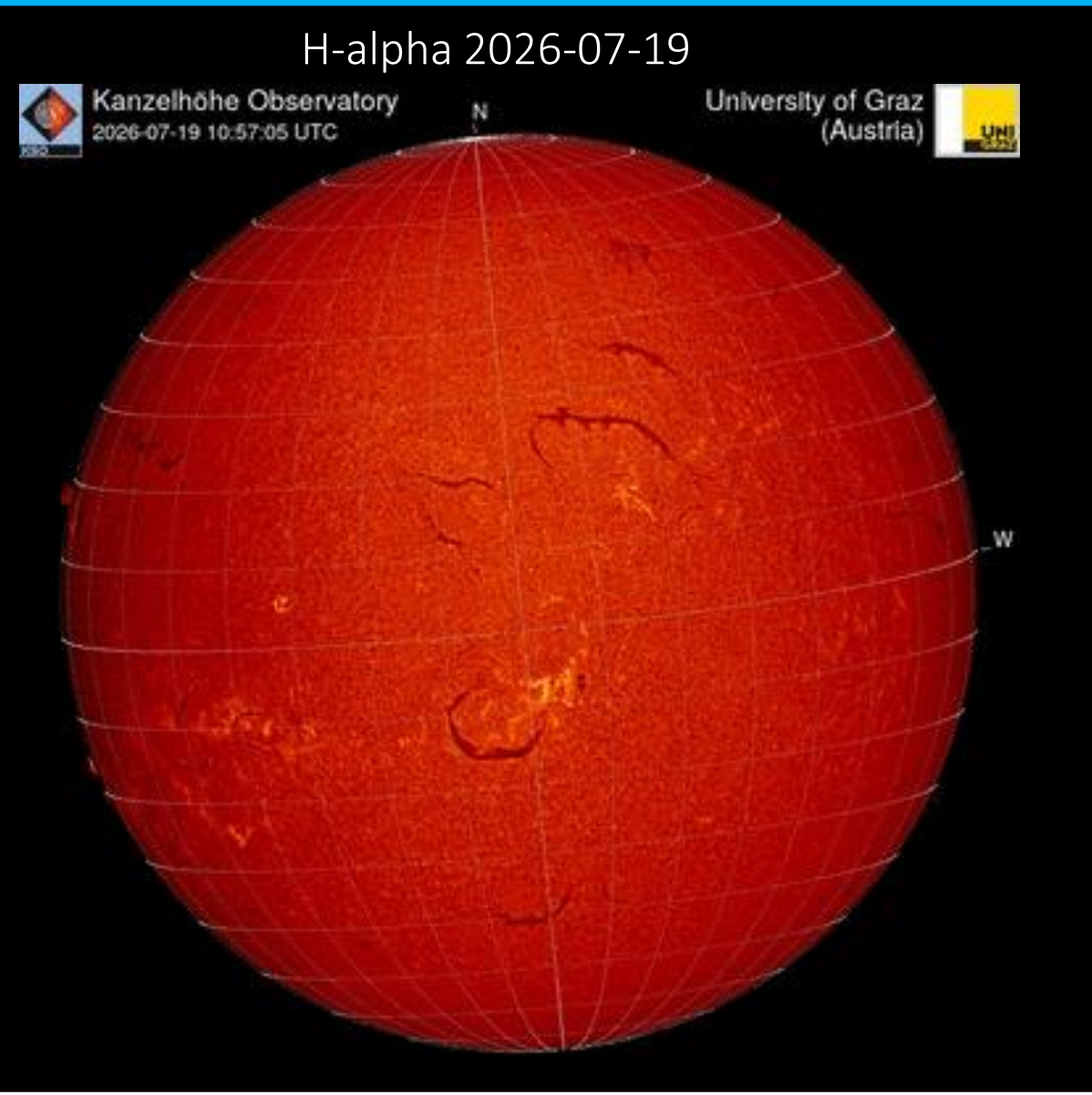


Filaments & Filament eruptions

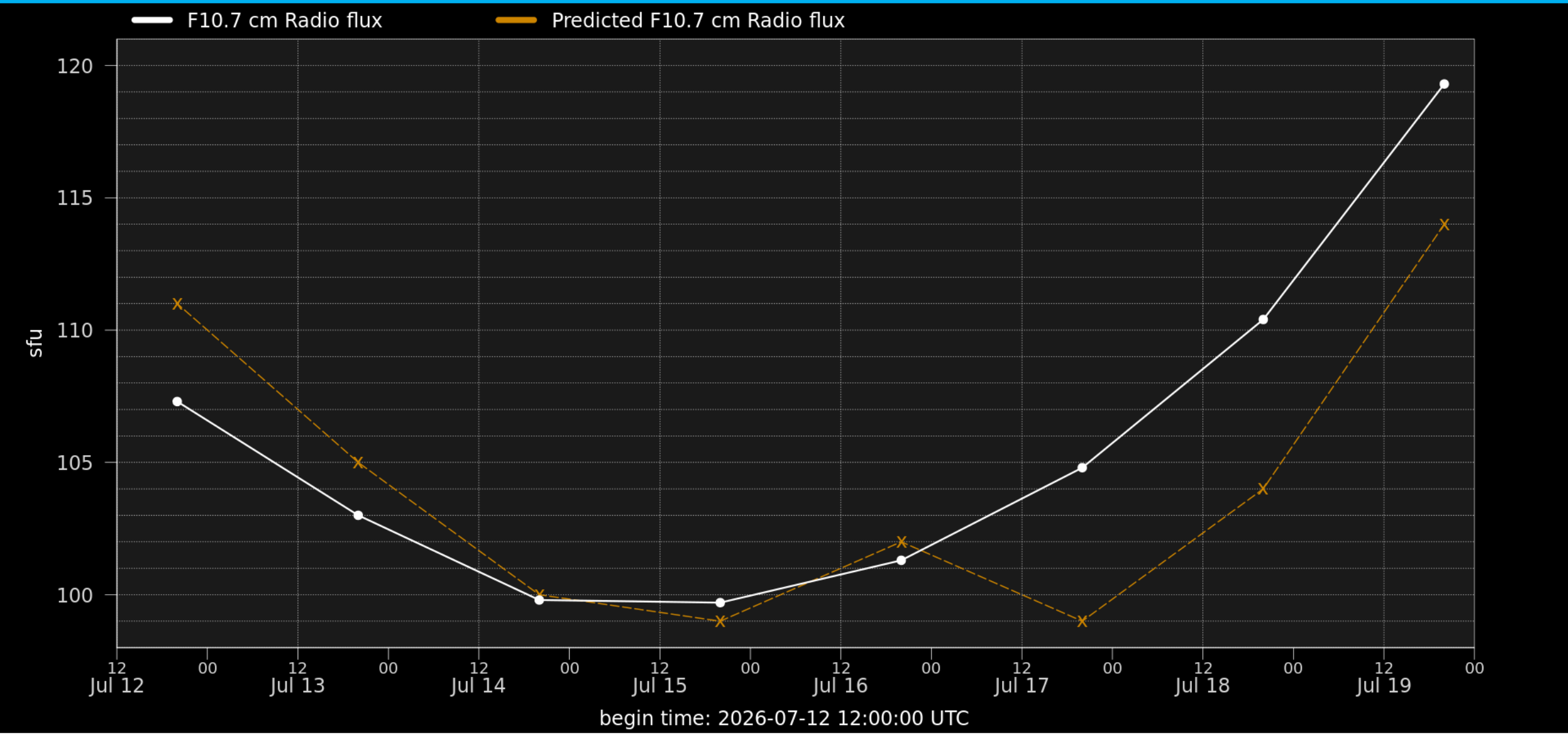
H-alpha 2026-07-13



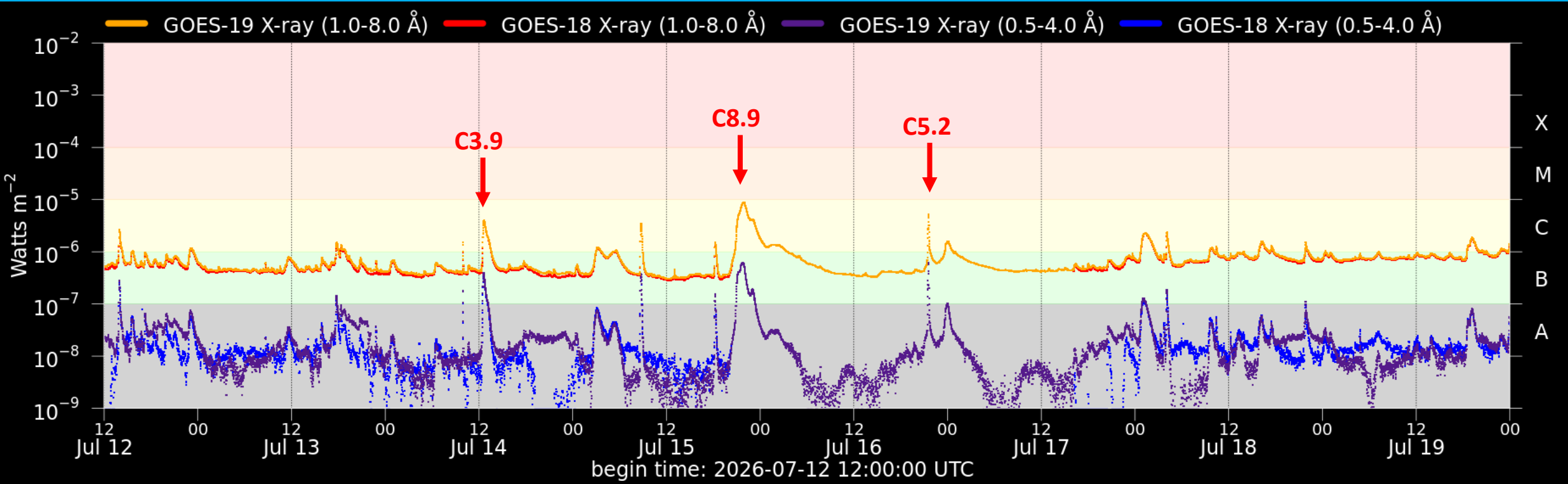
H-alpha 2026-07-19



Solar F10.7cm radio flux



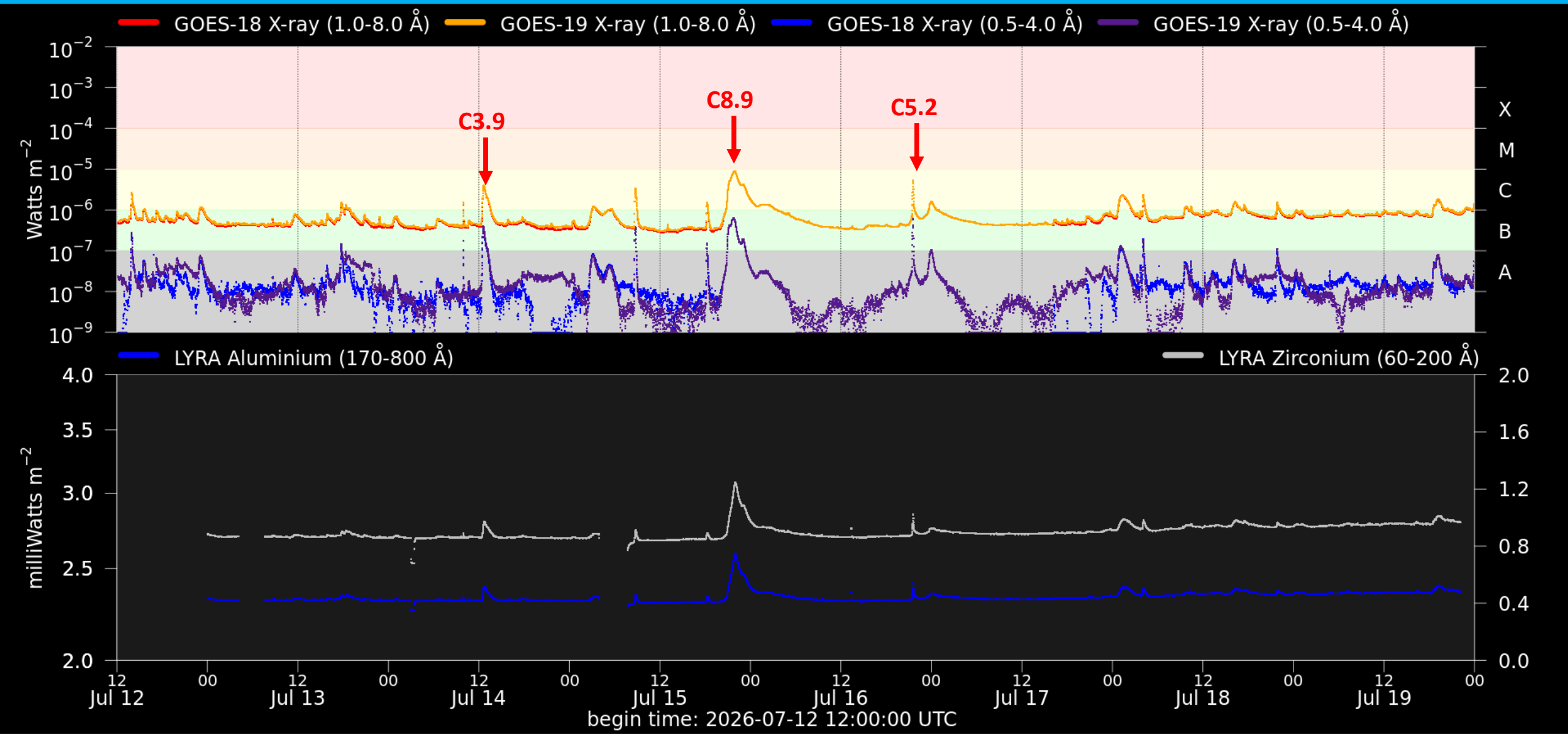
Flaring activity



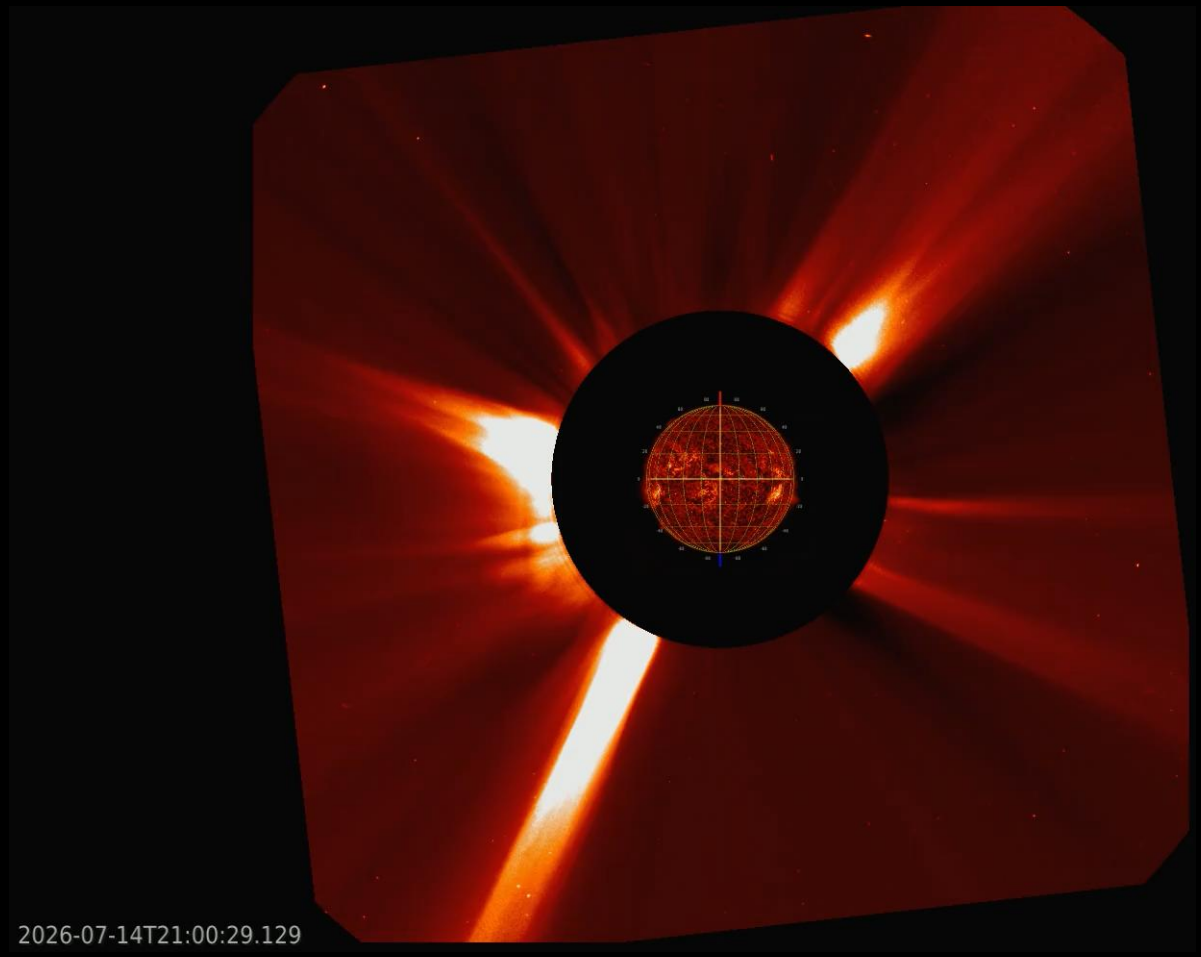
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2026-07-12	2026-07-13	2026-07-14	2026-07-15	2026-07-16	2026-07-17	2026-07-18	2026-07-19
Probability (%)	90|70|15	87|31|01	76|20|01	26|04|01	67|14|01	87|28|01	38|06|01	80|28|01
Observed (#)	02|00|00	03|00|00	02|00|00	02|00|00	01|00|00	01|00|00	01|00|00	00|00|00

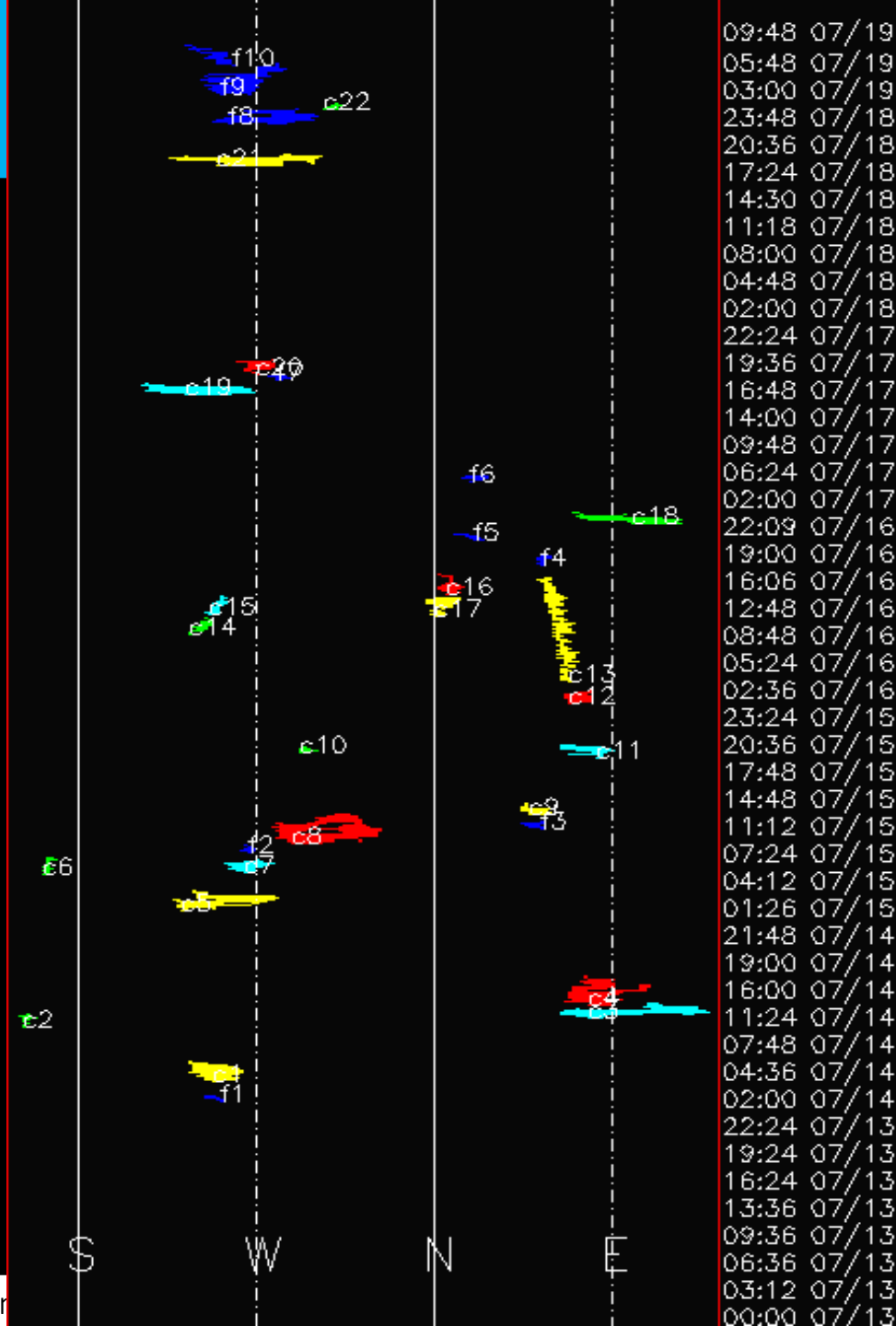
Solar X-Ray and UV flux



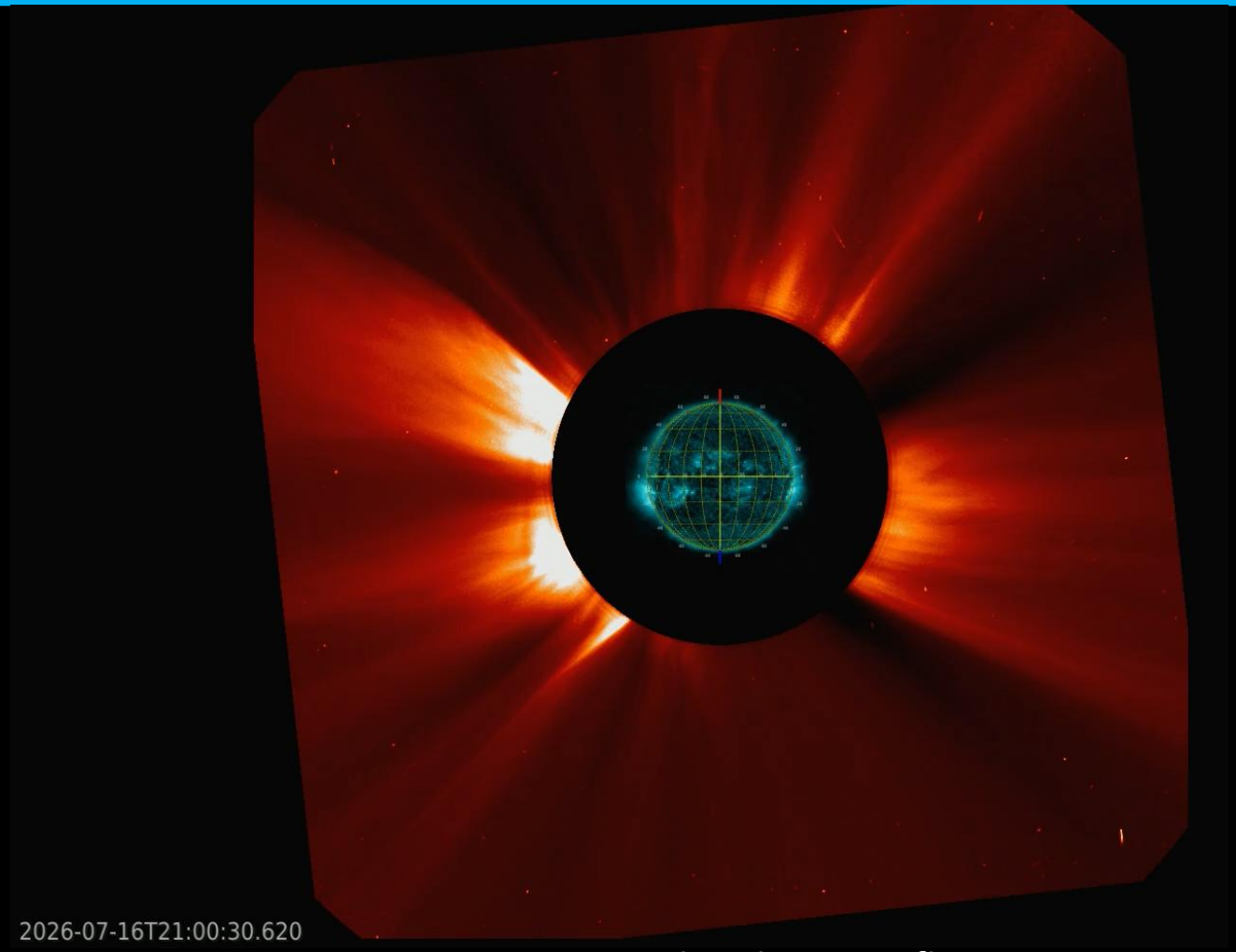
Coronal Mass Ejections



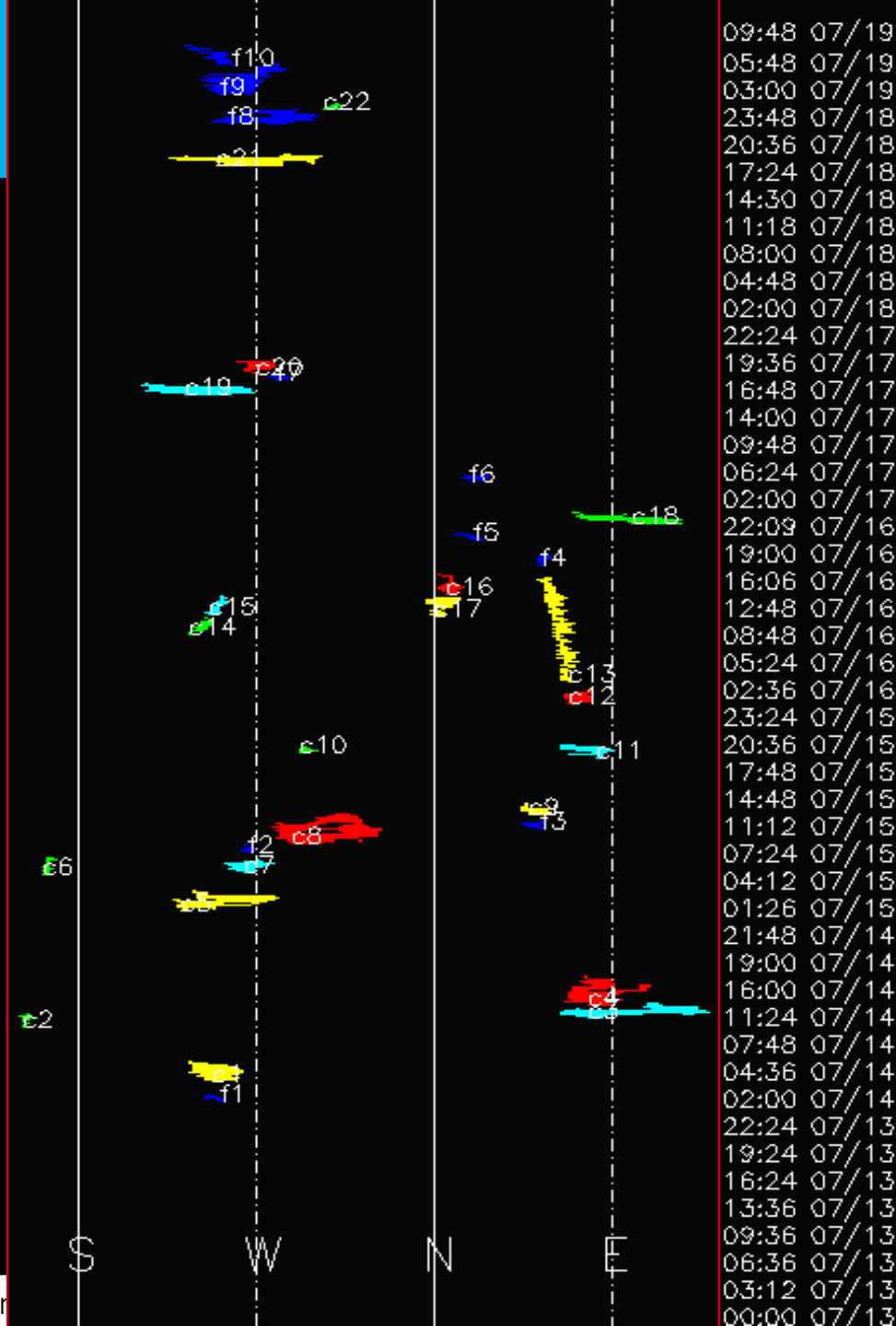
SIDC 688, associated with a prominence eruption in the west limb
Not Earth-directed



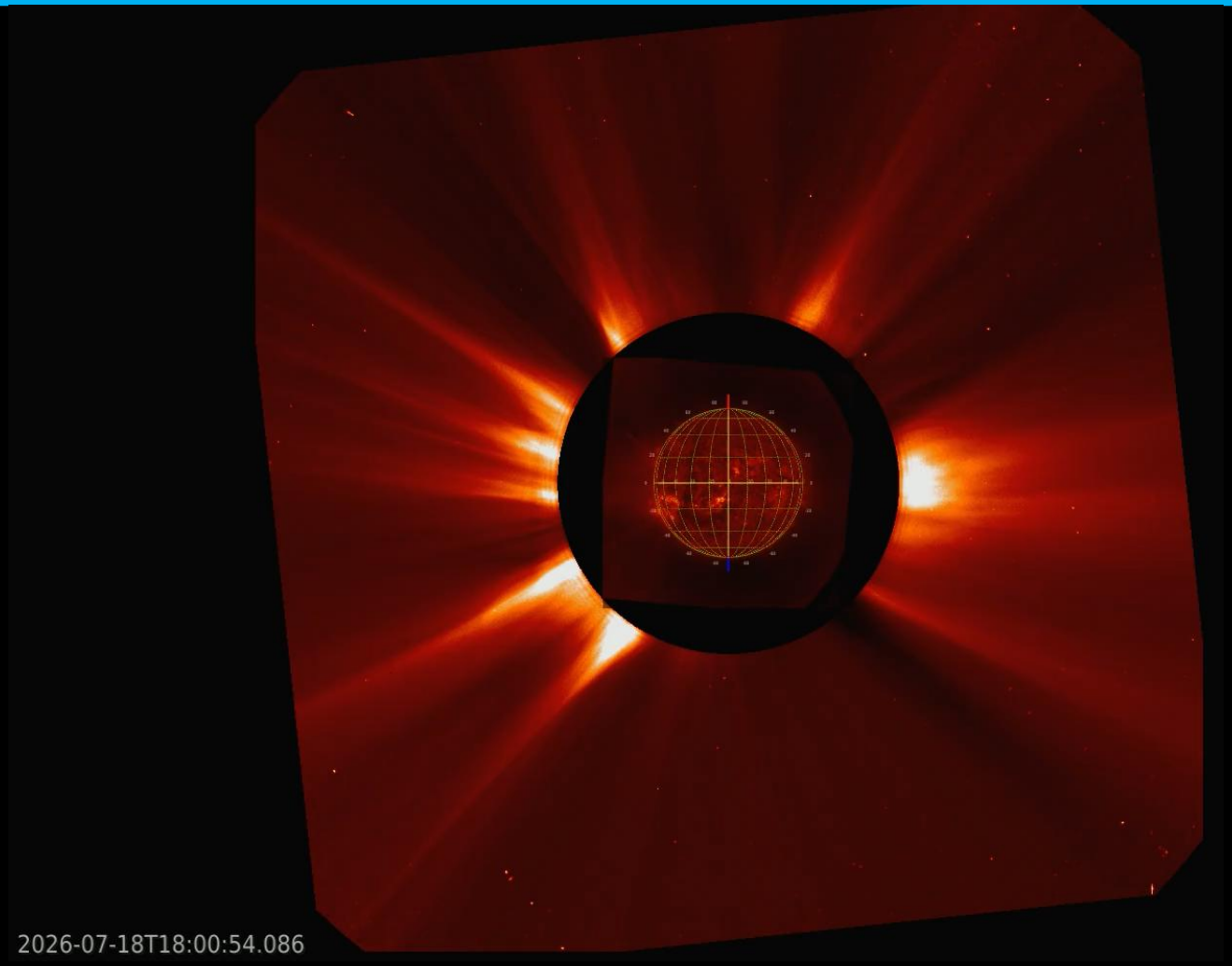
Coronal Mass Ejections



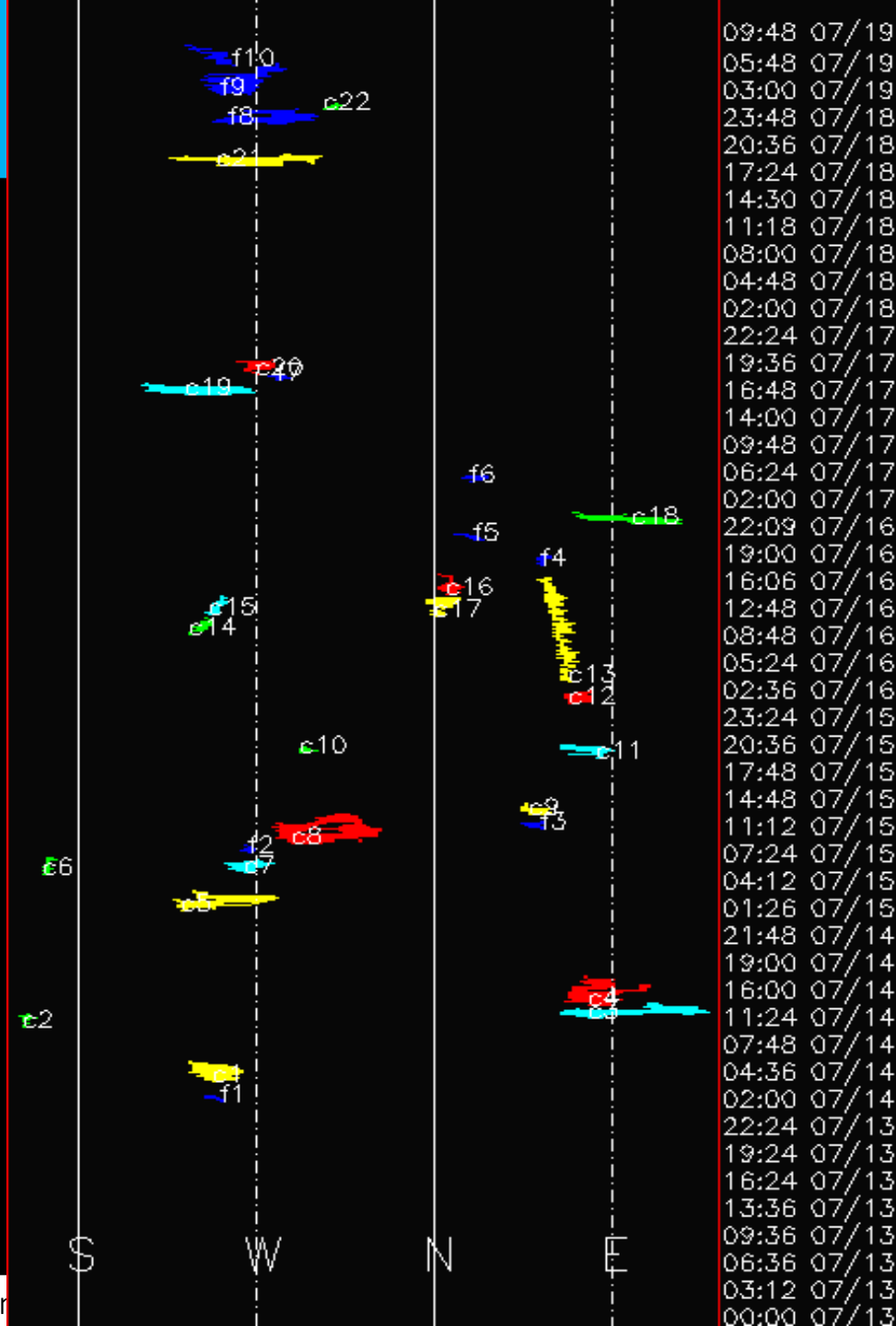
SIDC 690, associated with a C1.5 flare
from beyond the east limb
Not Earth-directed



Coronal Mass Ejections



SIDC 692, 693, 694: source region behind the west limb
Not Earth-directed



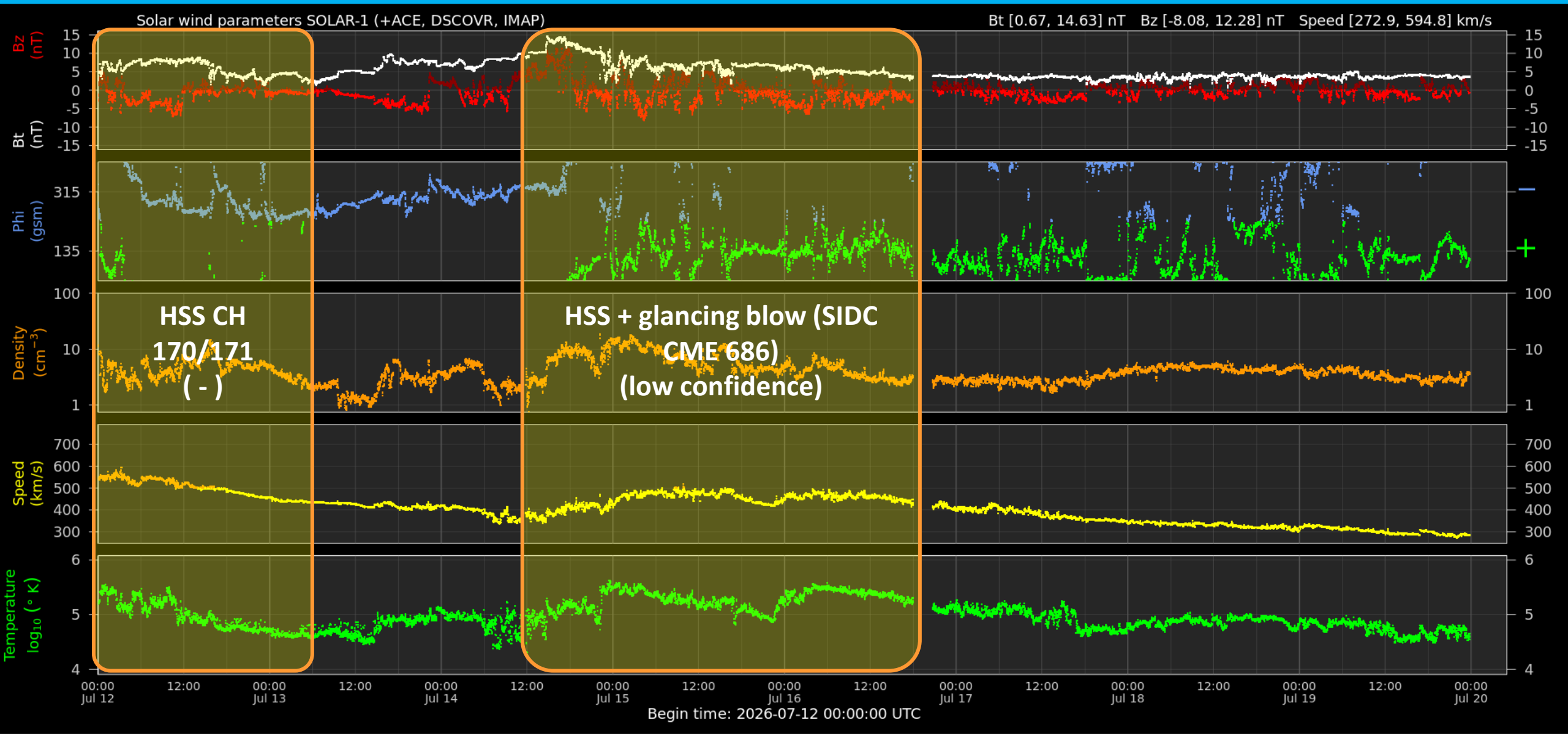
Solar Wind and

Geomagnetic Activity

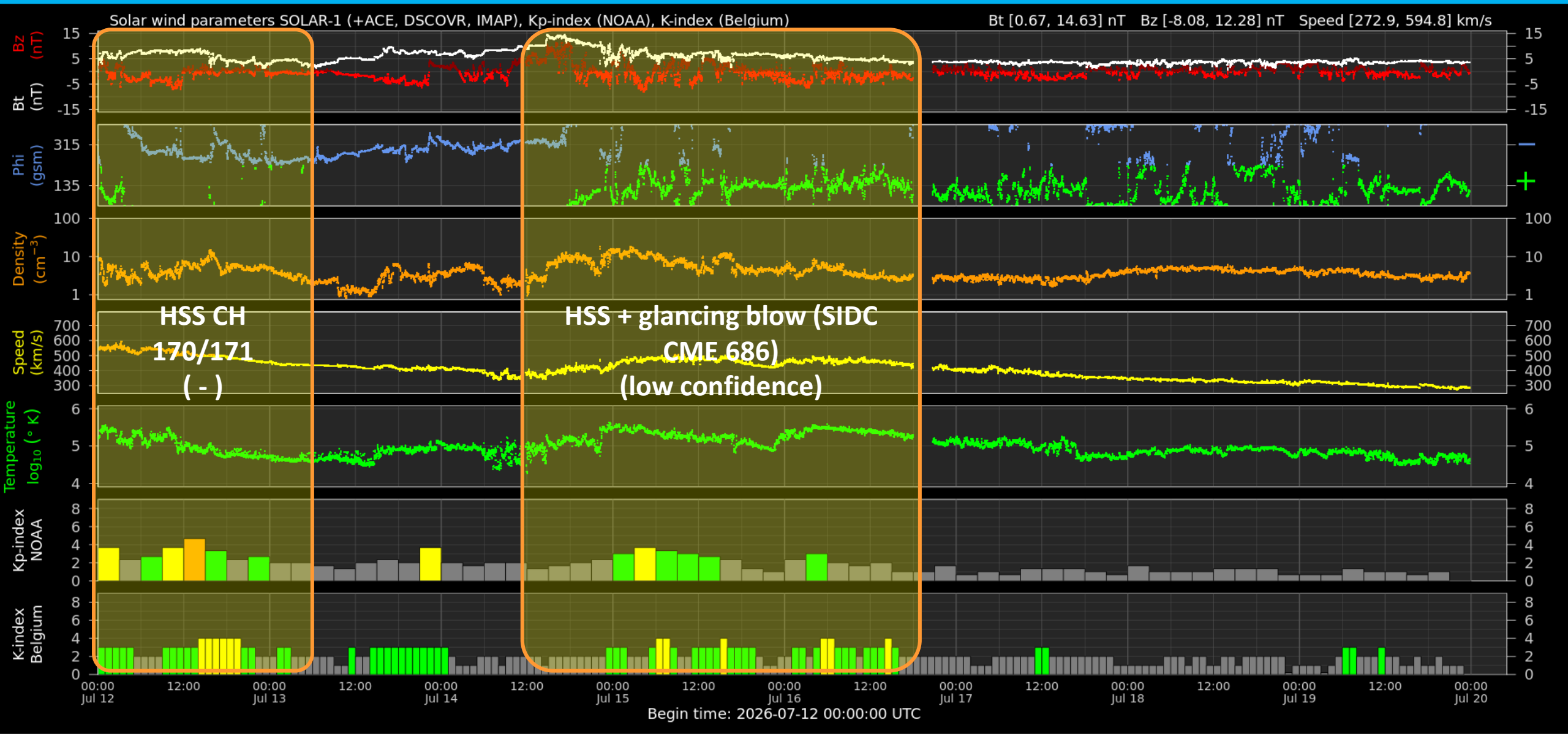
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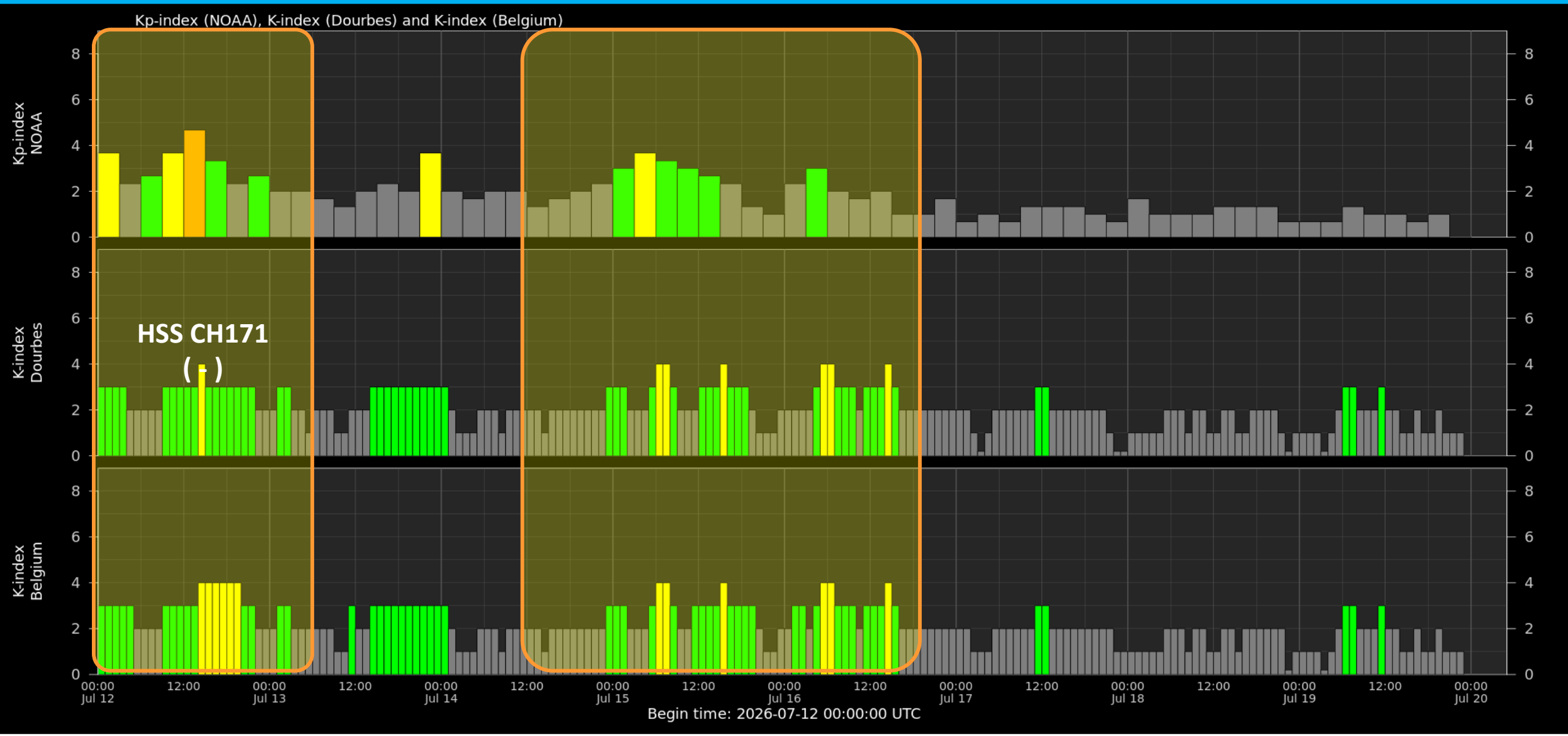
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



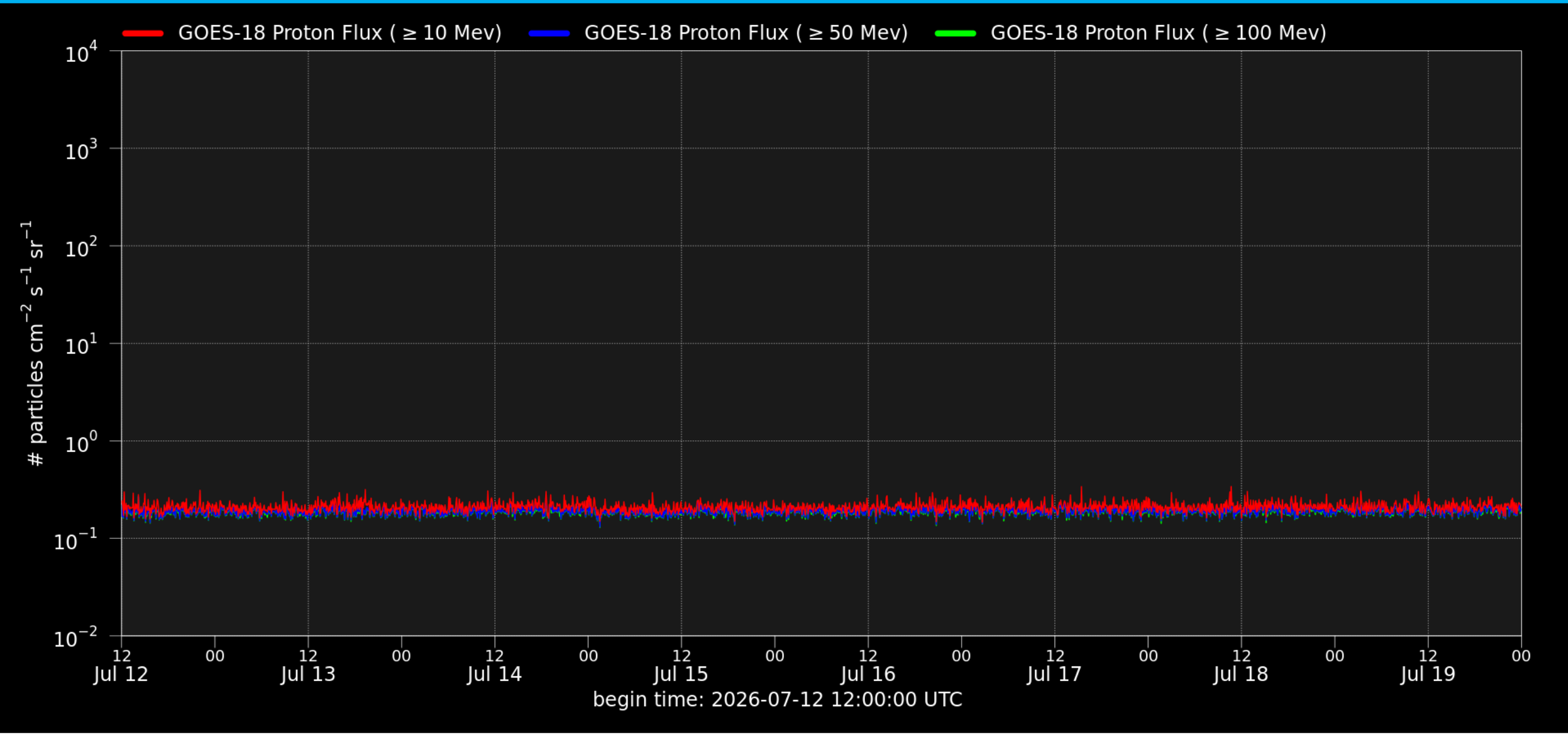
Energetic Particles



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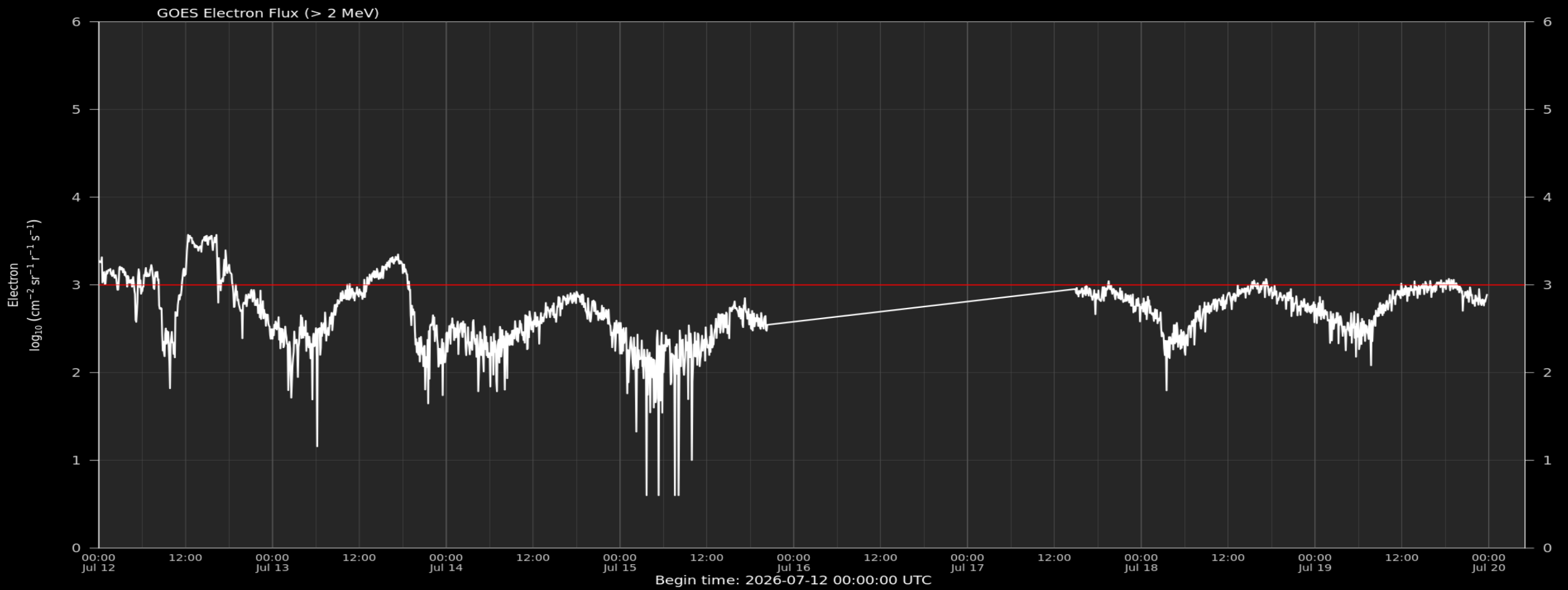
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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

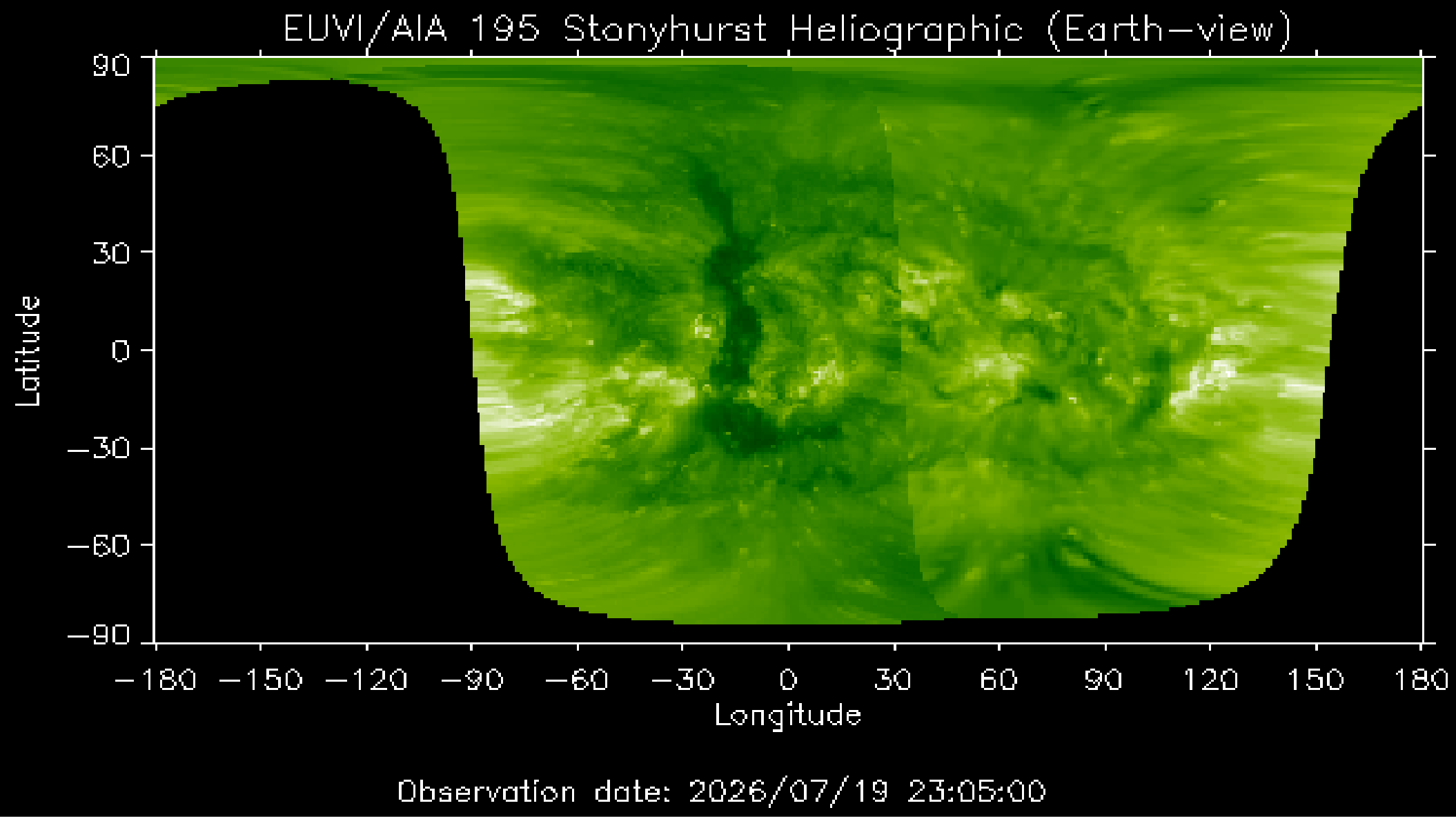


Outlook

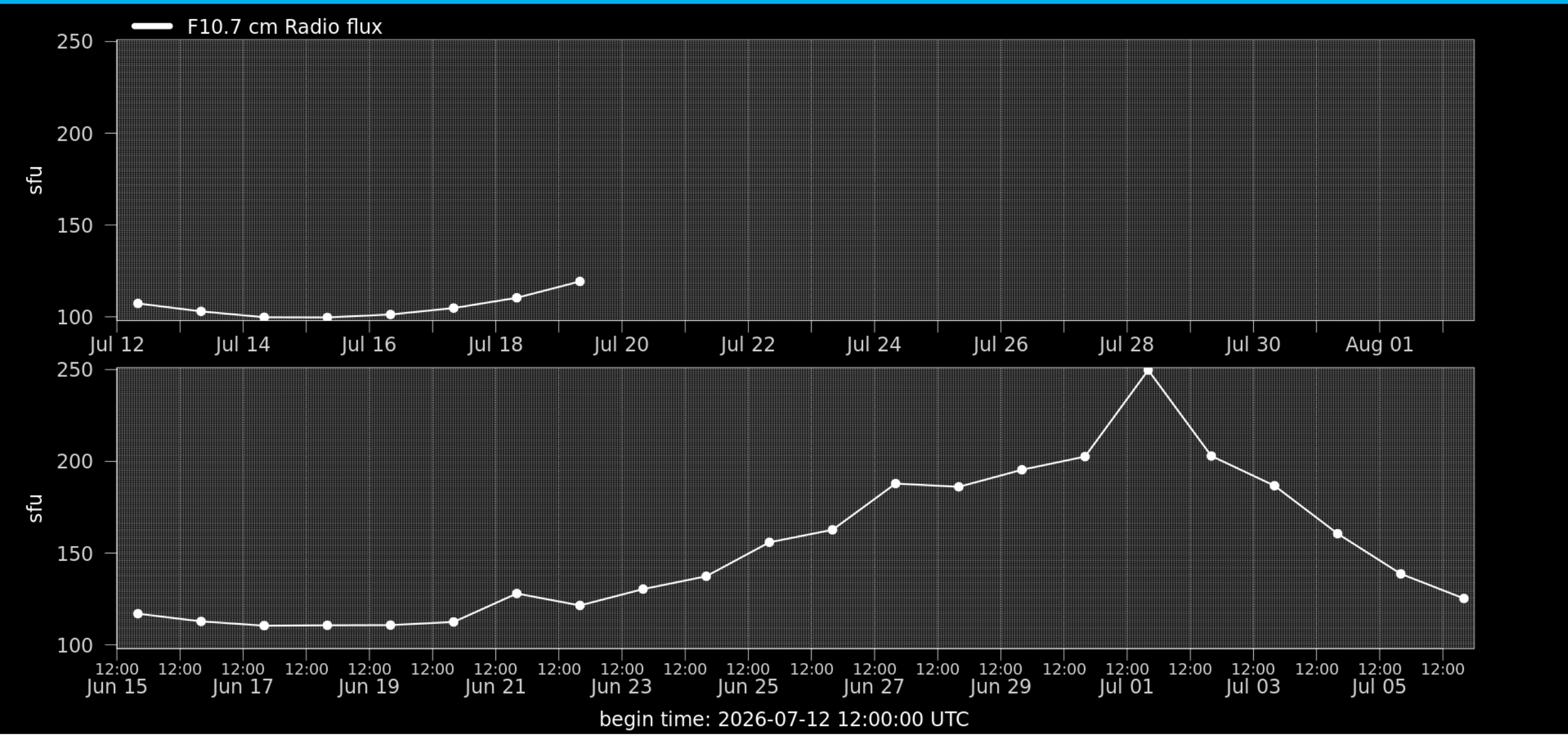
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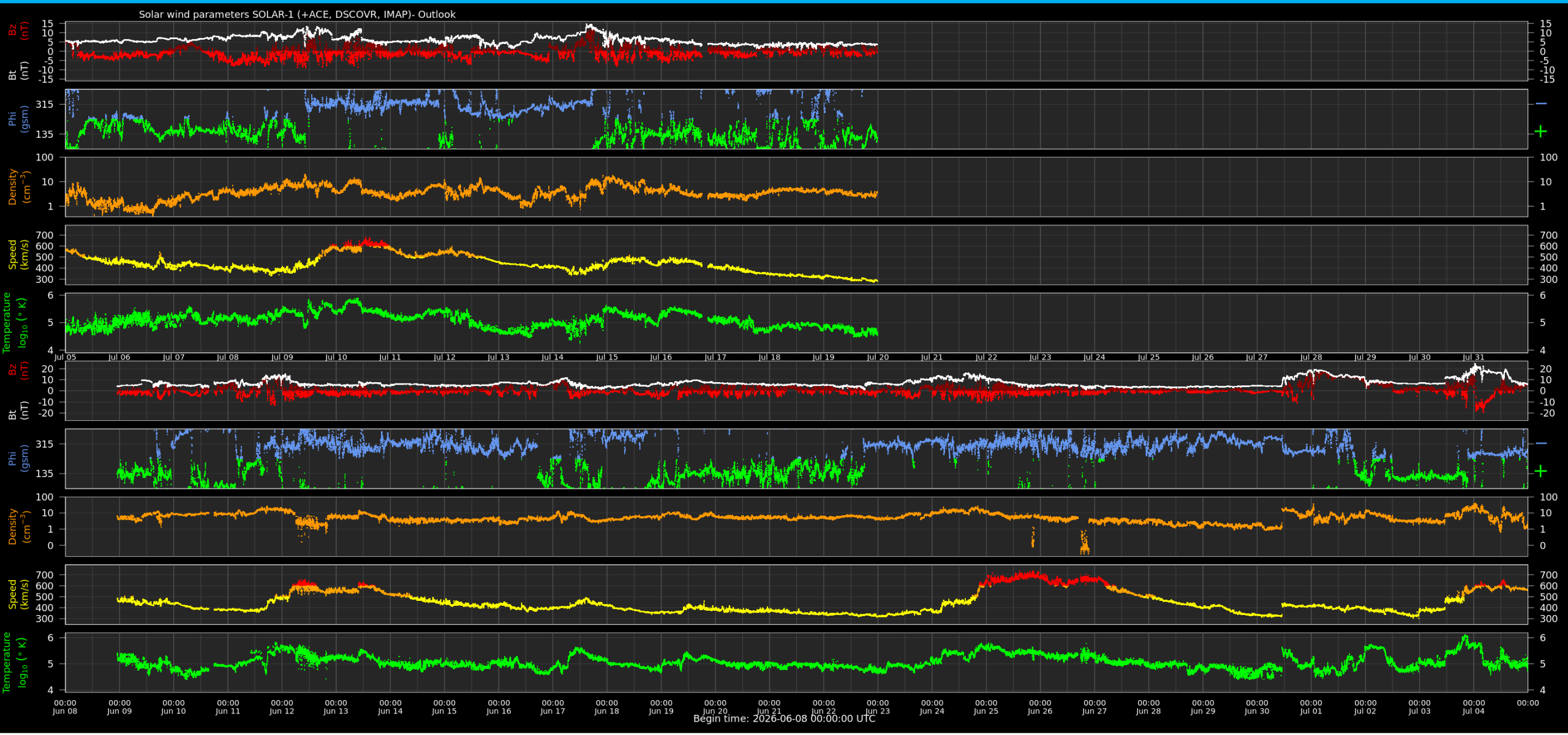
Outlook: Solar activity



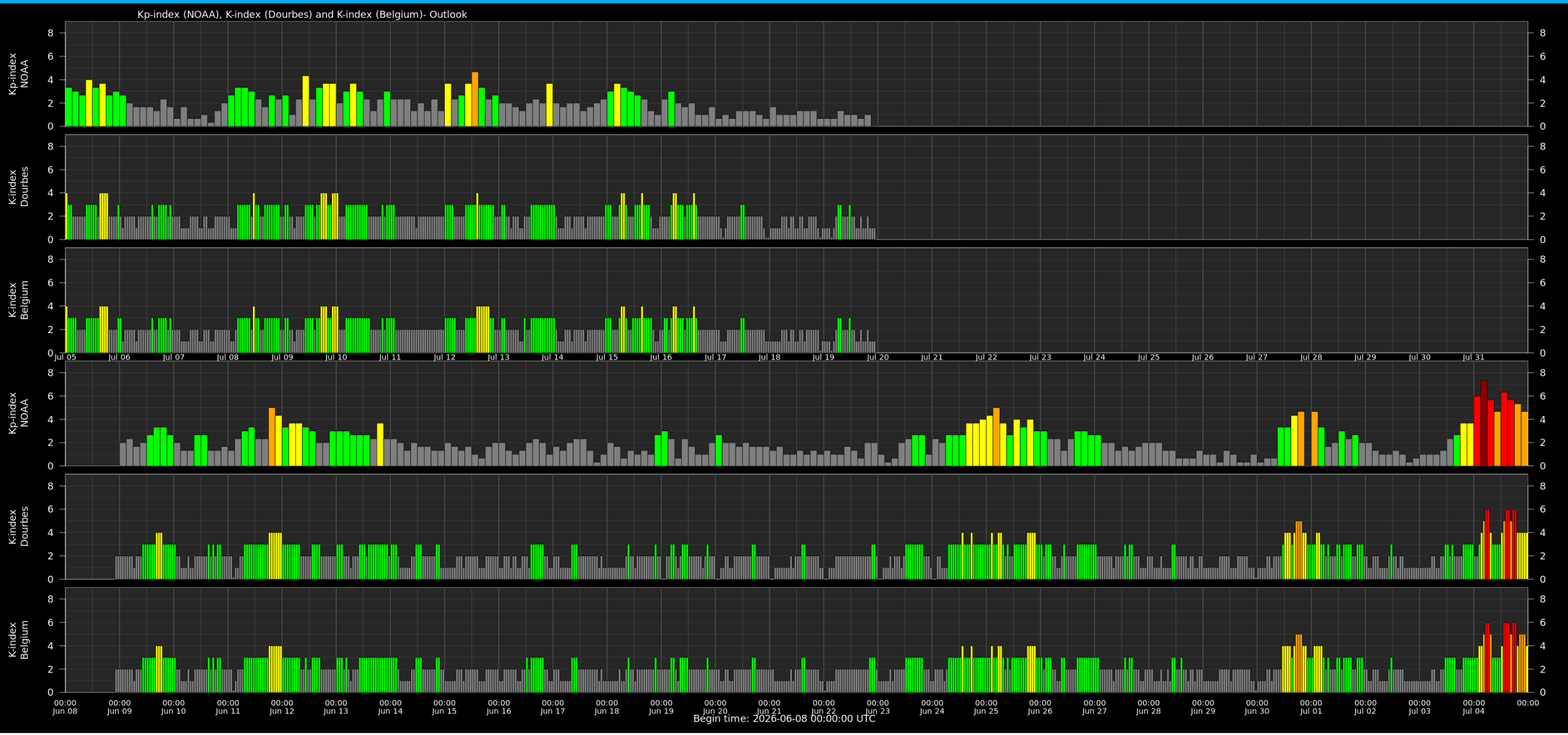
Outlook: Solar F10.7cm radio flux



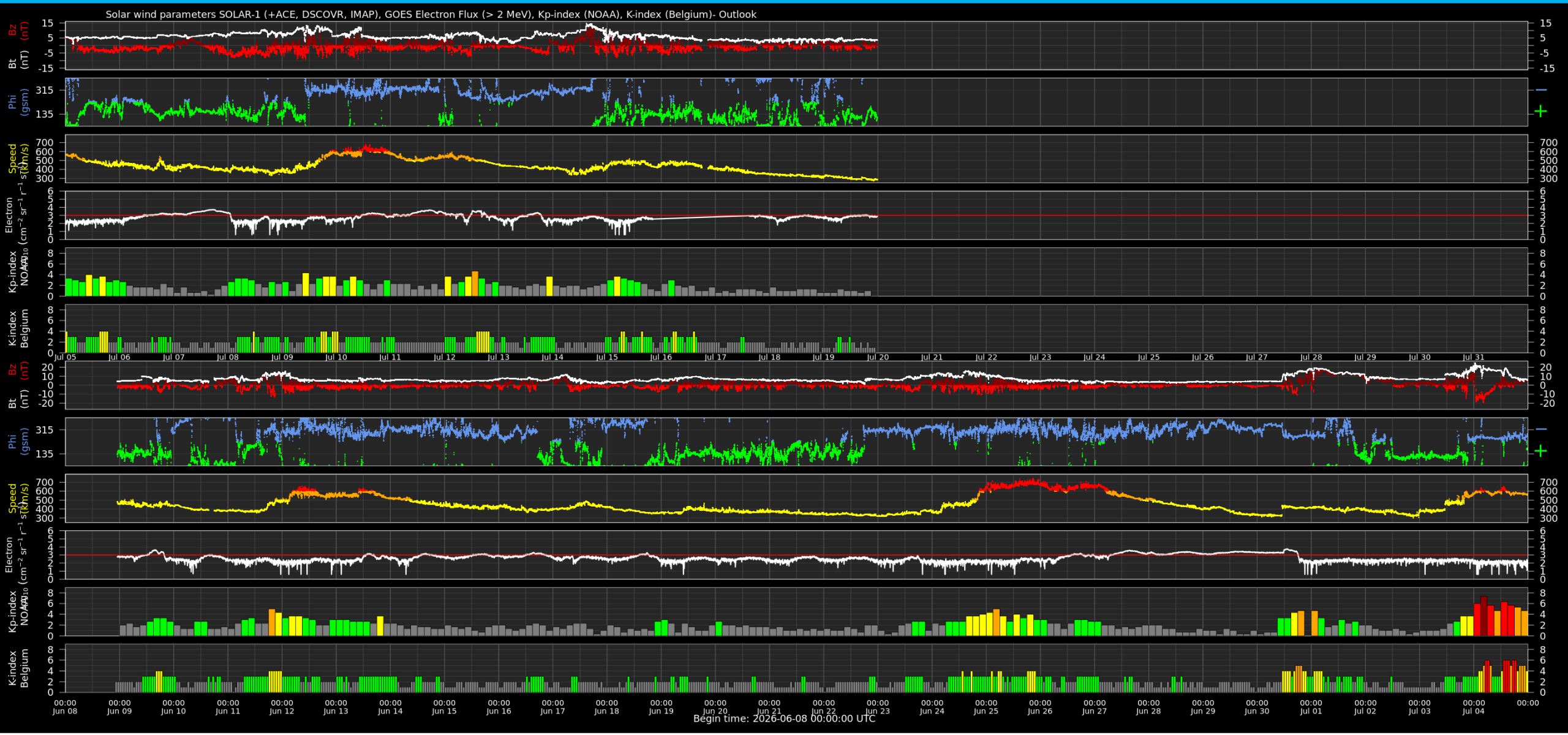
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



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Data analysis Centre
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Pecasus related events

No advisories issued

SIDC Space Weather Briefing

See you at our next briefing!

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