

SIDC Space Weather Briefing

28 July 2025-03 August 2025

Yana Maneva

& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2025-07-28 00:00 to 2025-08-03 23:59

Active regions	24 ARs
Flares	# C-class flare: 34 # M-class flare: 1 # X-class flare: 0
Coronal Holes	2 CH-
CMEs	None Earth-directed

Proton flux	Nominal
Electron flux	> 1000 pfu

Solar wind and geomagnetic conditions

ICMEs	None
Solar wind conditions	B : 0.87 - 12.79 nT //Bz: -9.73 nT to 10.53 nT //Speed: 322.7 – 600 km/s
Geomagnetic conditions	max K _{BeI} : 4.0, max K _p (NOAA): 3.67, Active conditions

All Quiet Alert: Off

Solar Activity

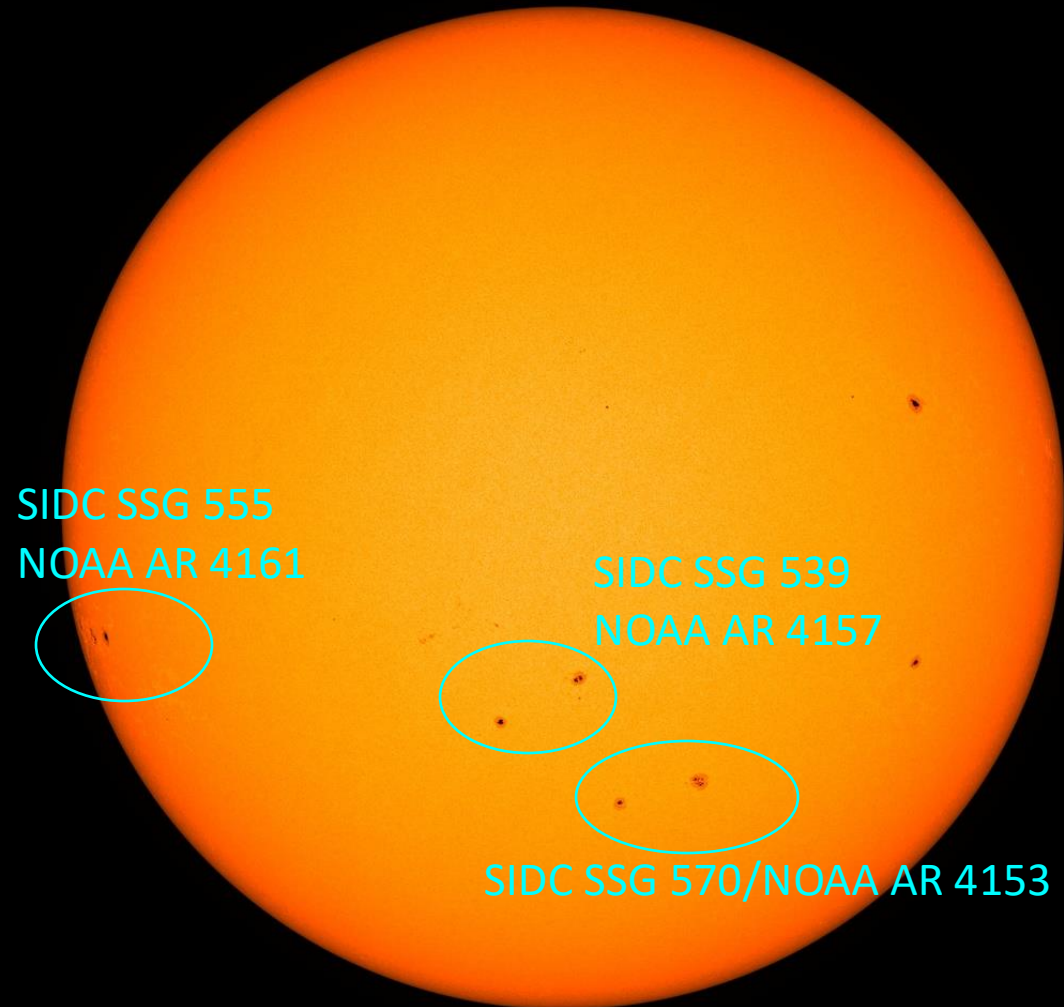


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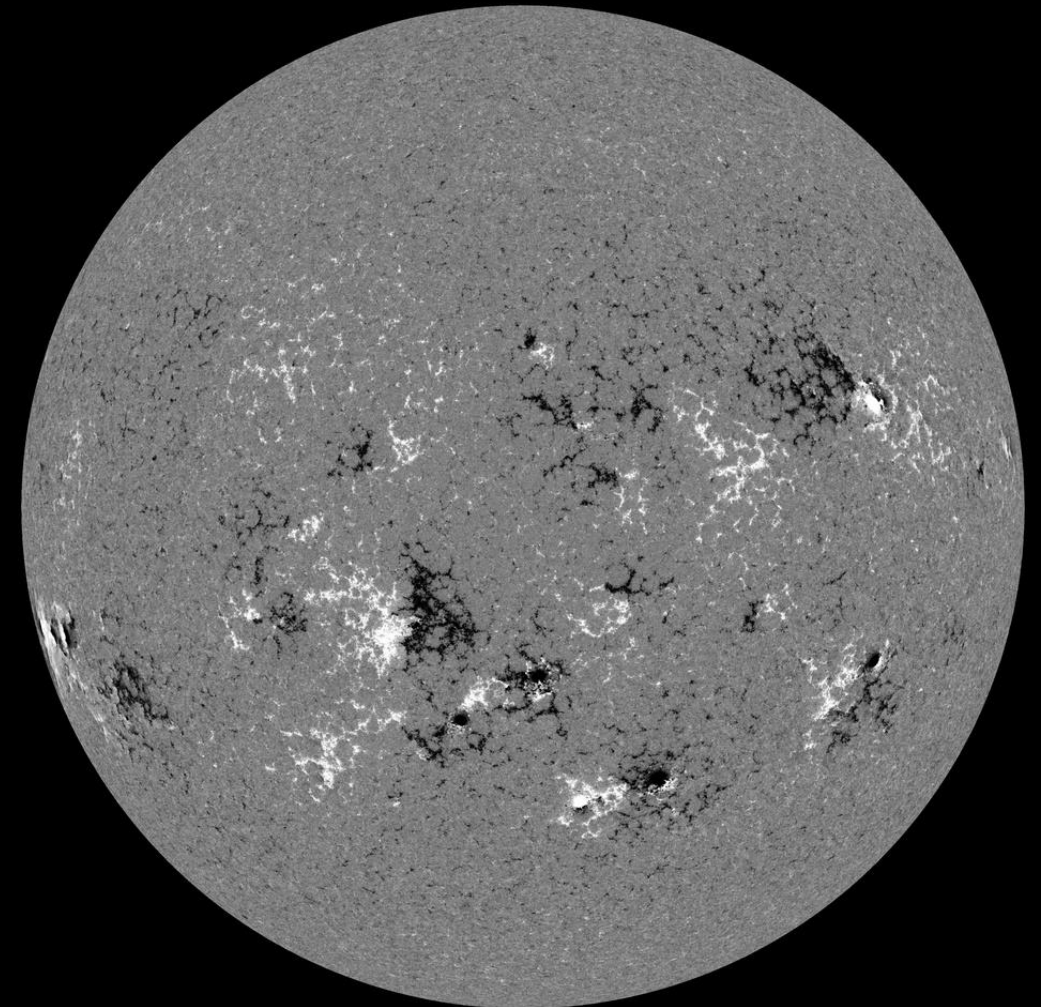
Solar active regions

SDO/HMI White Light 2025-07-28



SDO/HMI Quick-Look Continuum: 20250728_114500

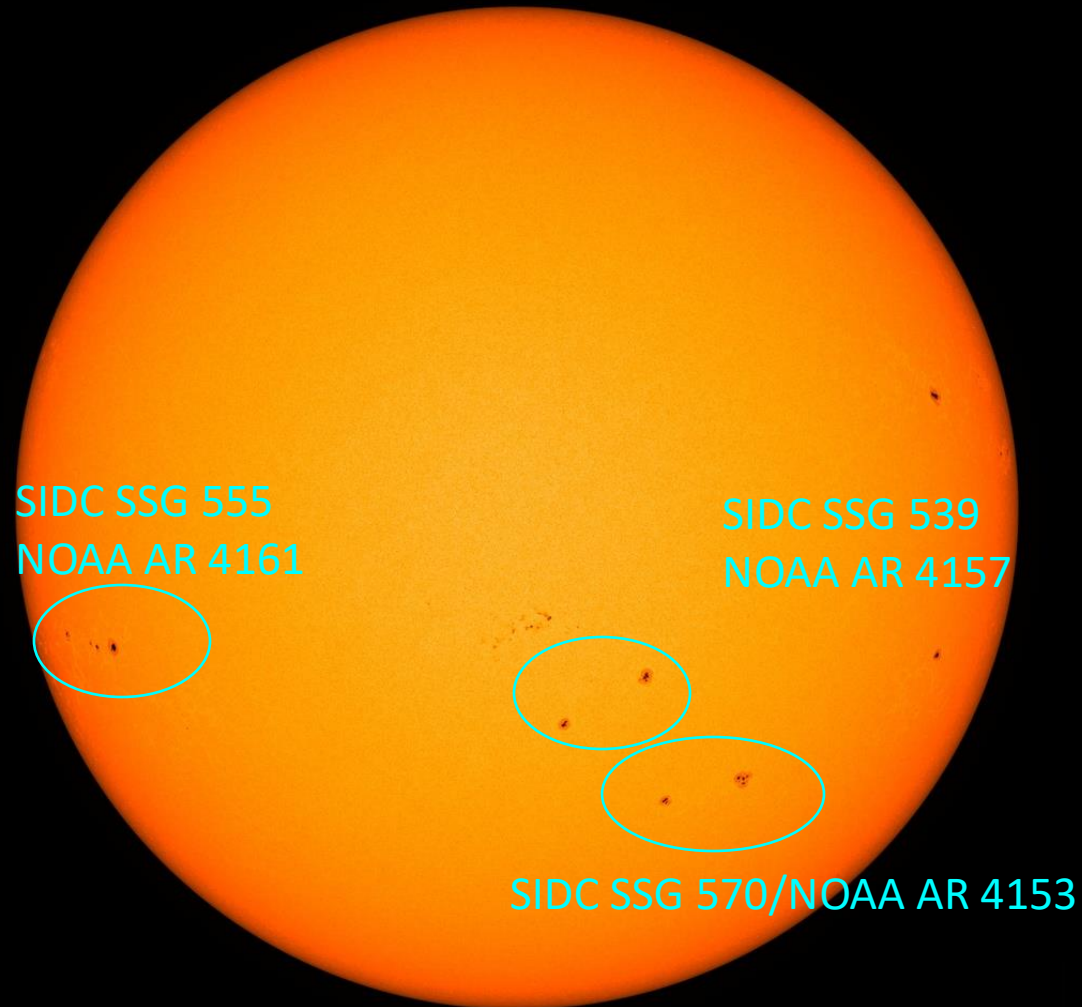
SDO/HMI Magnetogram 2025-07-28



SDO/HMI Quick-Look Magnetogram: 20250728_114500

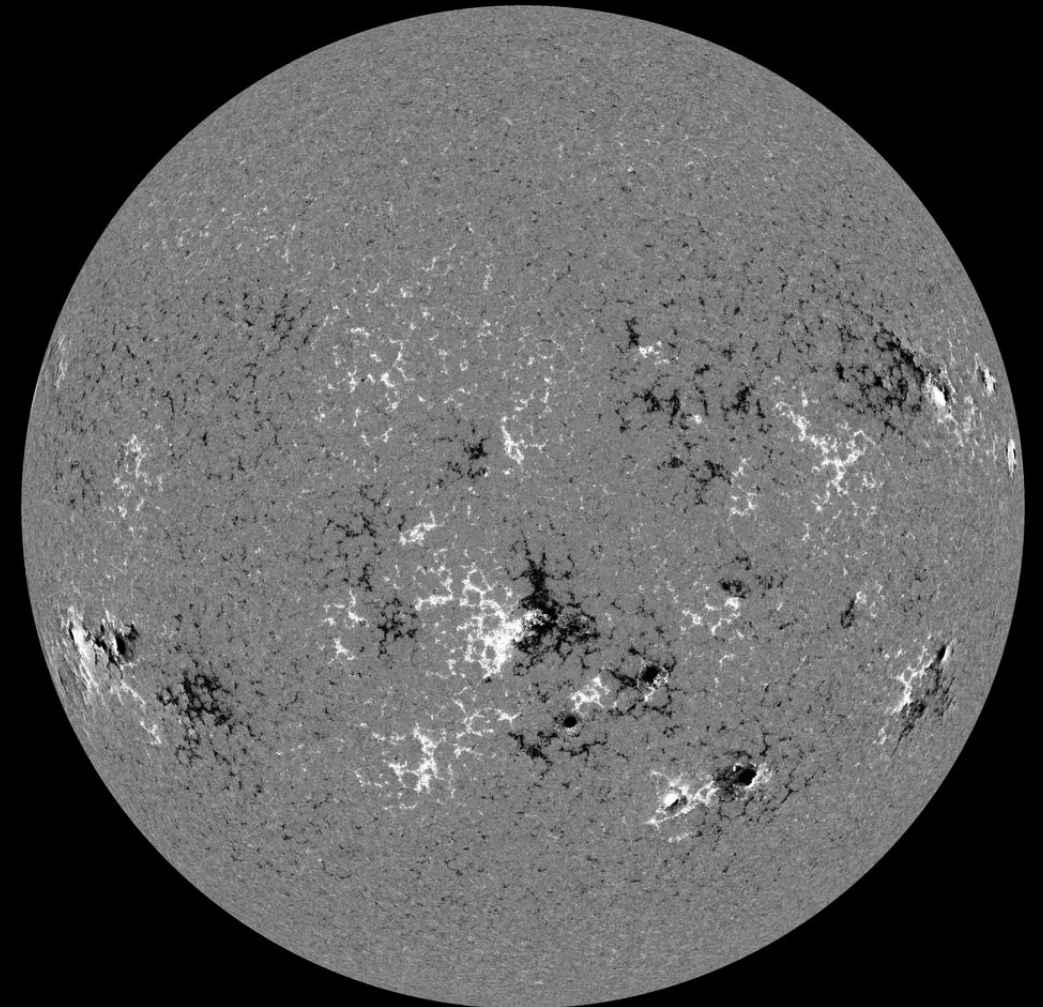
Solar active regions

SDO/HMI White Light 2025-07-29



SDO/HMI Quick-Look Continuum: 20250729_114500

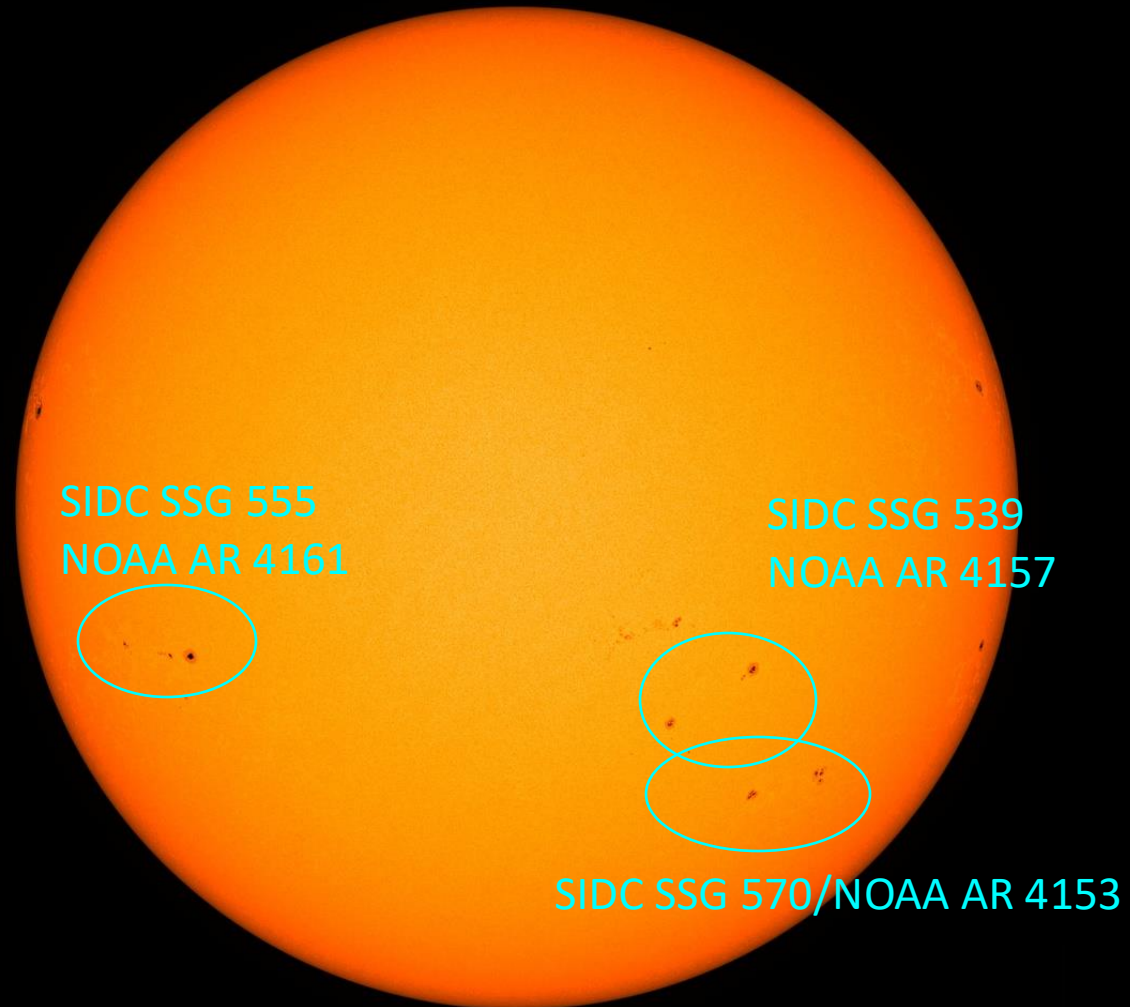
SDO/HMI Magnetogram 2025-07-29



SDO/HMI Quick-Look Magnetogram: 20250729_114500

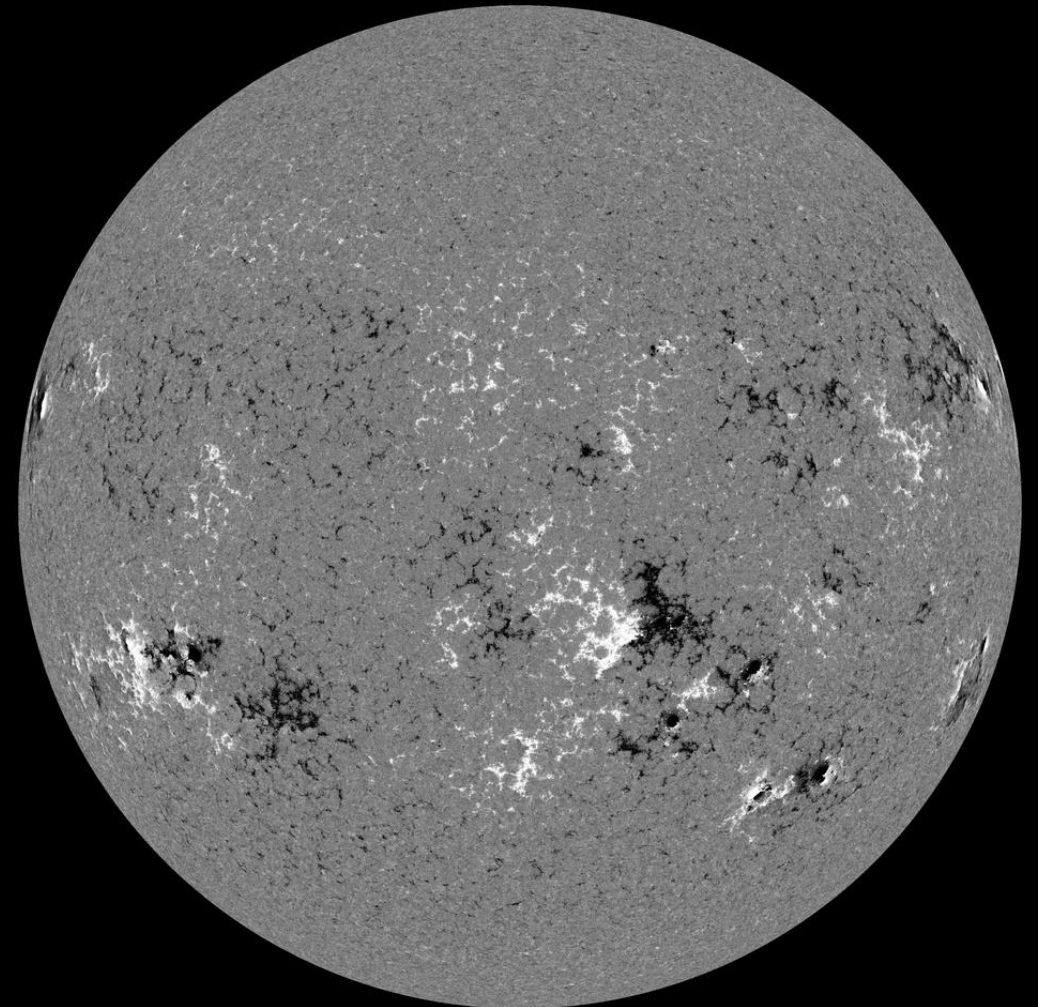
Solar active regions

SDO/HMI White Light 2025-07-30



SDO/HMI Quick-Look Continuum: 20250730_114500

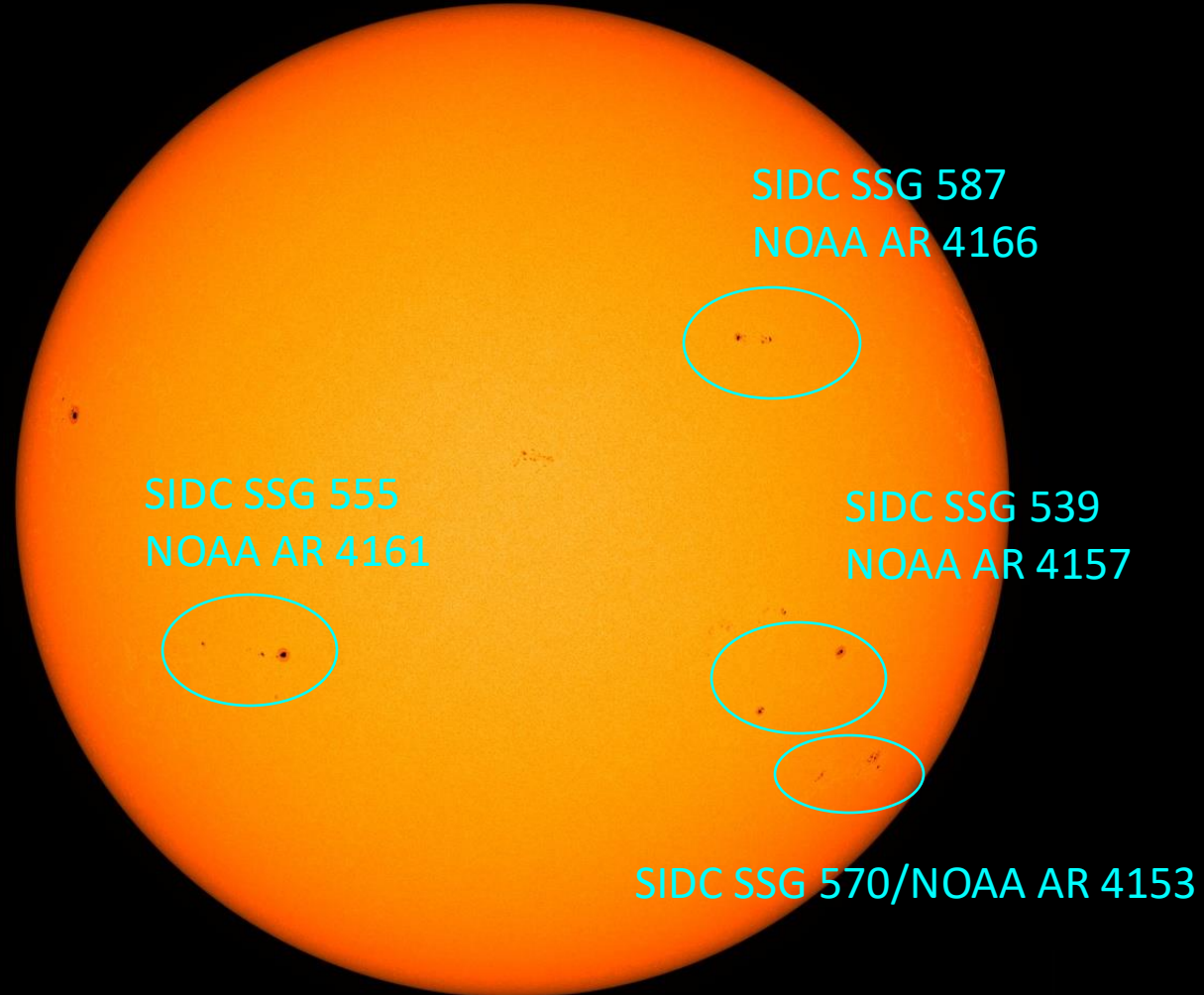
SDO/HMI Magnetogram 2025-07-30



SDO/HMI Quick-Look Magnetogram: 20250730_114500

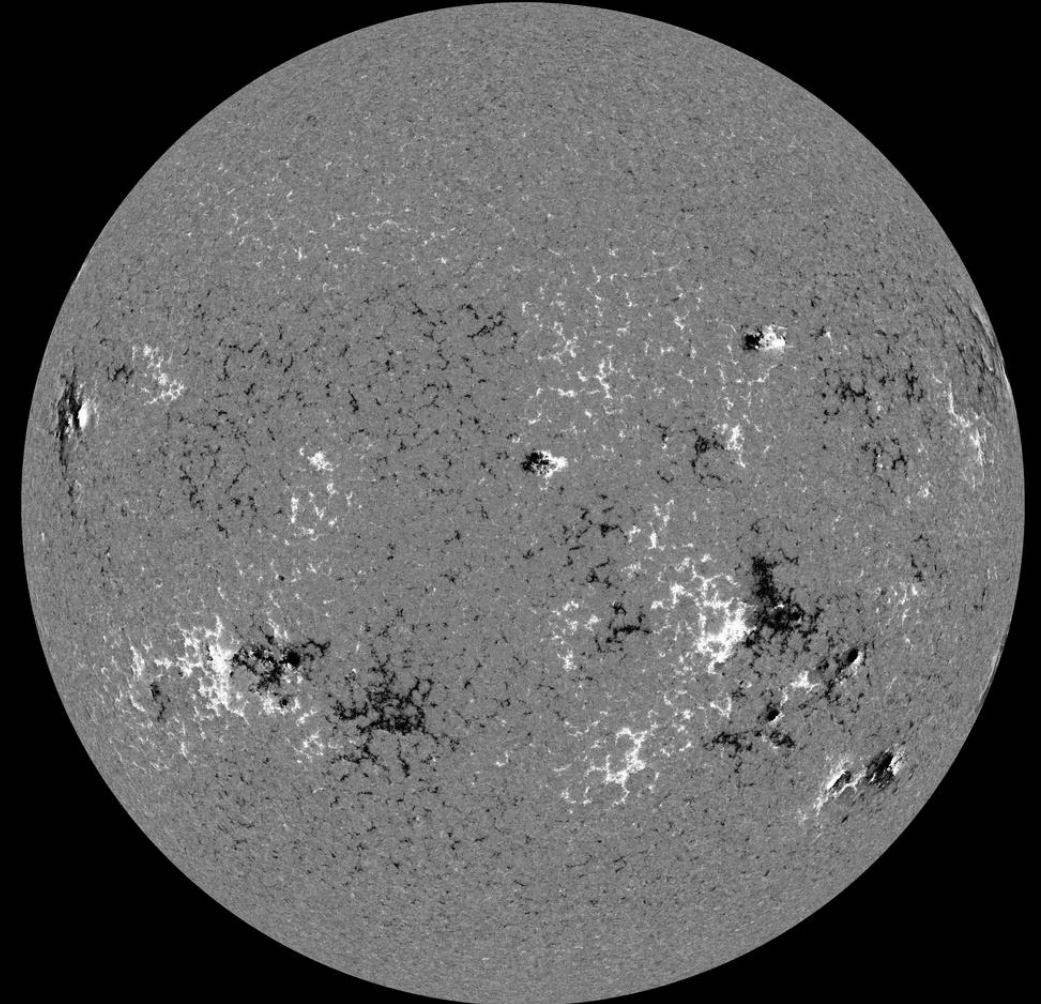
Solar active regions

SDO/HMI White Light 2025-07-31



SDO/HMI Quick-Look Continuum: 20250731_114500

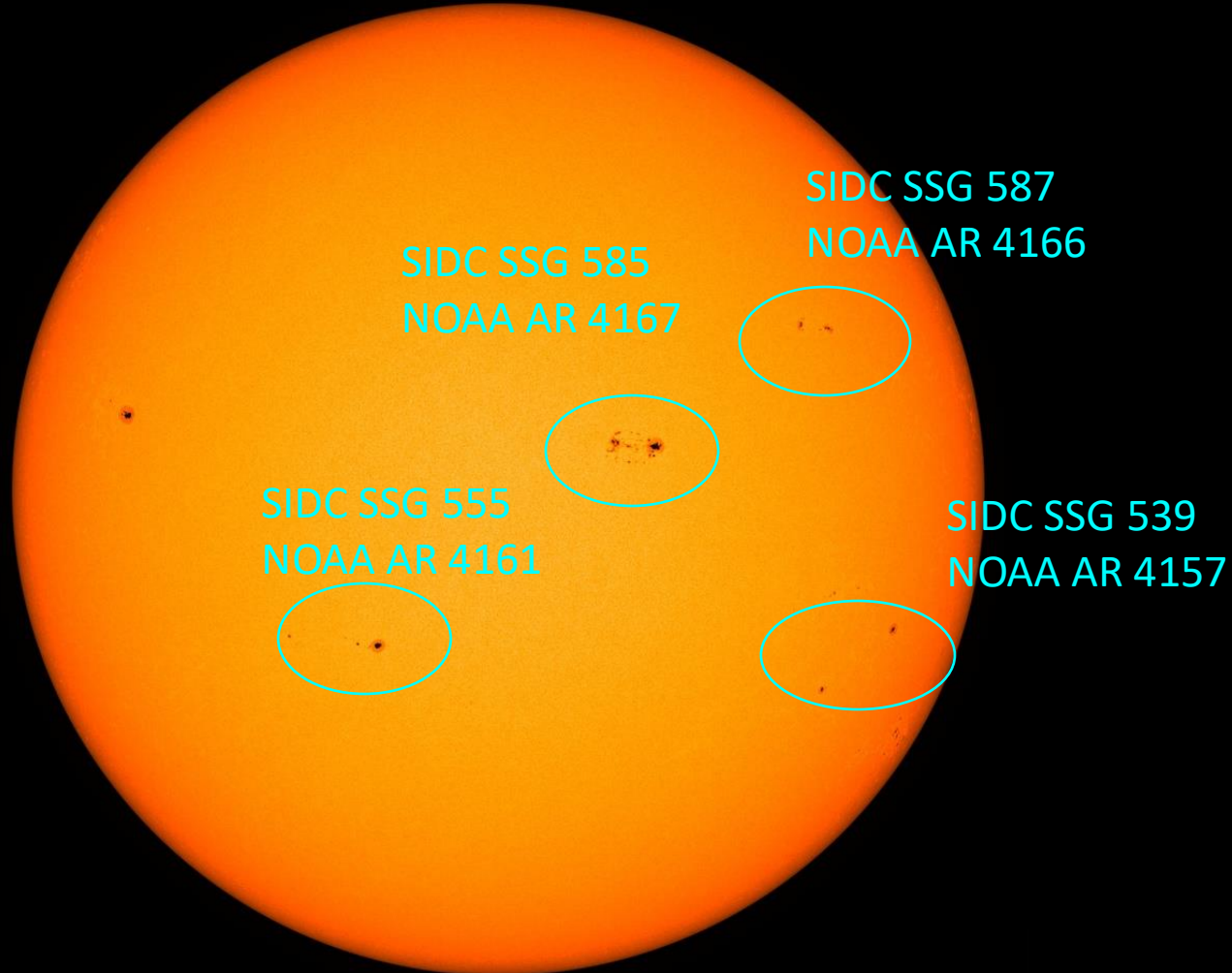
SDO/HMI Magnetogram 2025-07-31



SDO/HMI Quick-Look Magnetogram: 20250731_114500

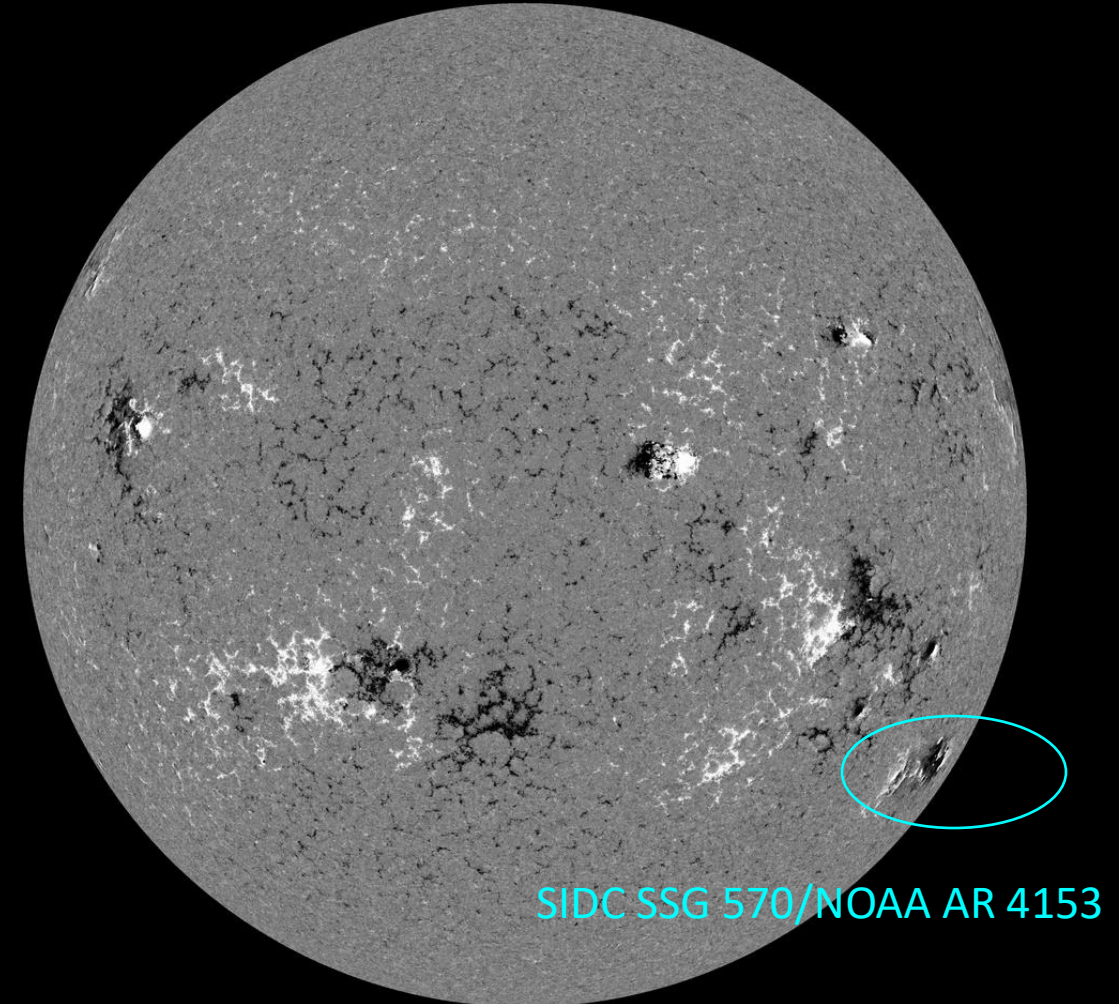
Solar active regions

SDO/HMI White Light 2025-08-01



SDO/HMI Quick-Look Continuum: 20250801_114500

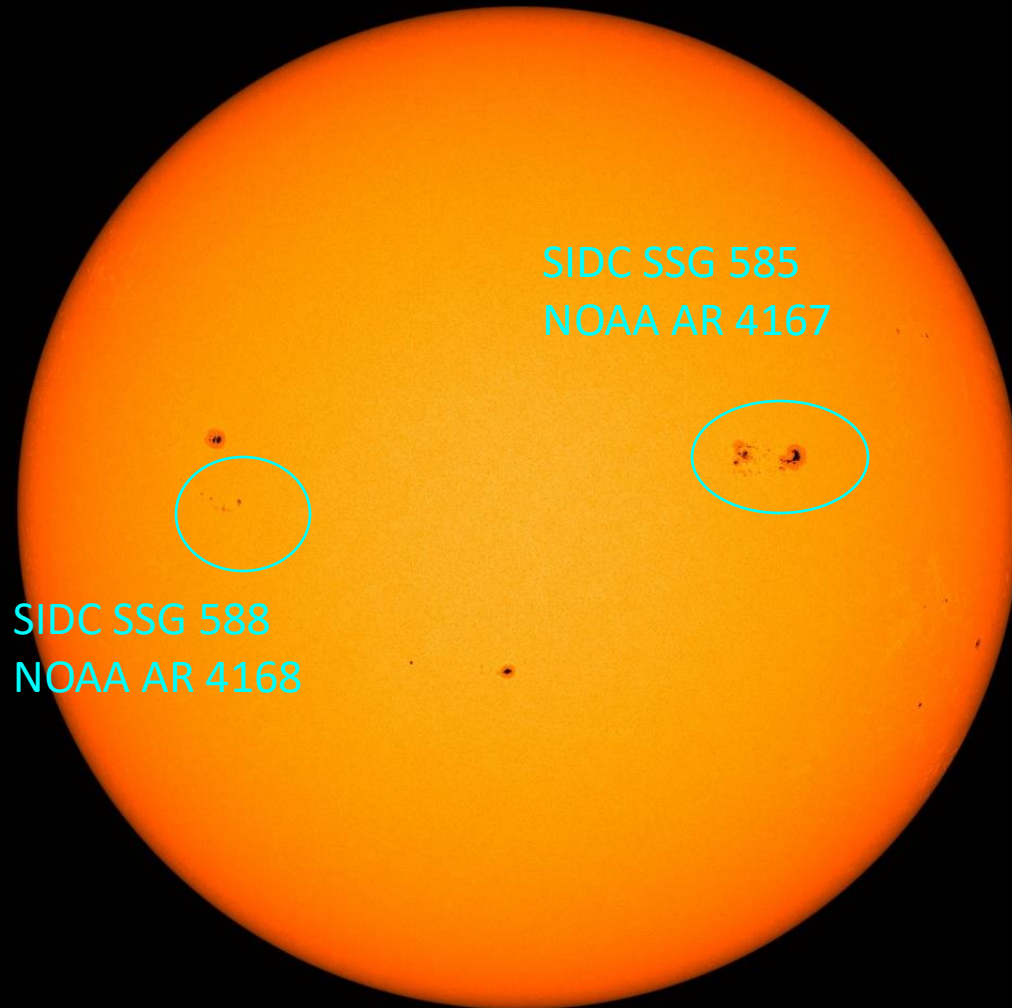
SDO/HMI Magnetogram 2025-08-01



SDO/HMI Quick-Look Magnetogram: 20250801_114500

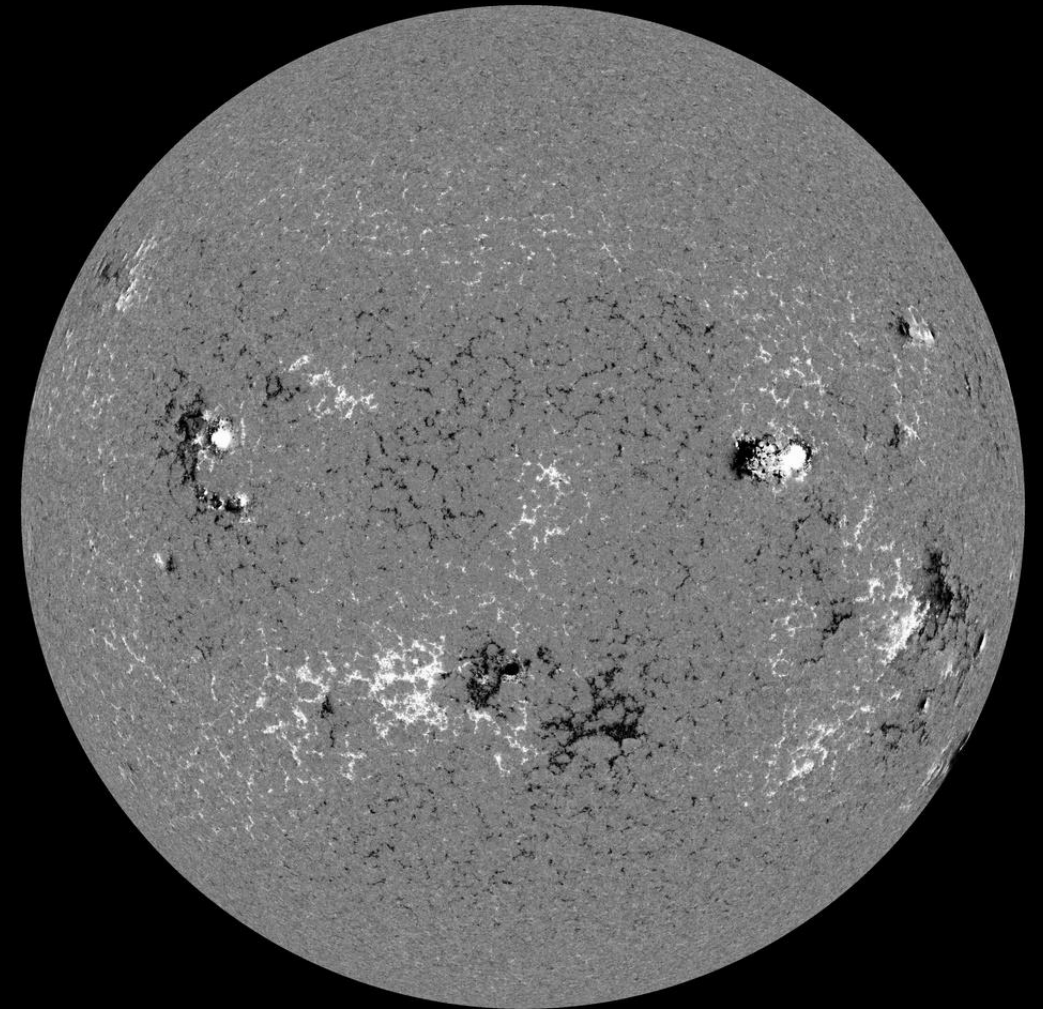
Solar active regions

SDO/HMI White Light 2025-08-02



SDO/HMI Quick-Look Continuum: 20250802_114500

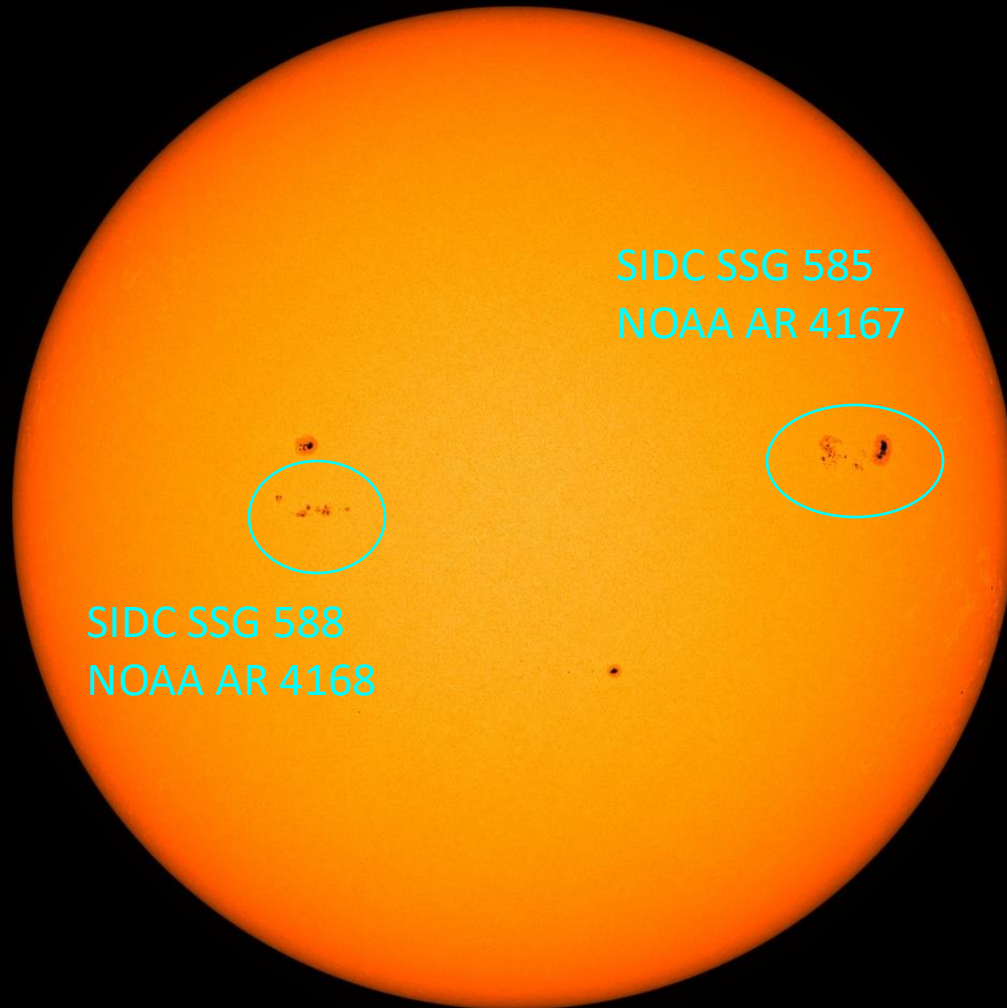
SDO/HMI Magnetogram 2025-08-02



SDO/HMI Quick-Look Magnetogram: 20250802_114500

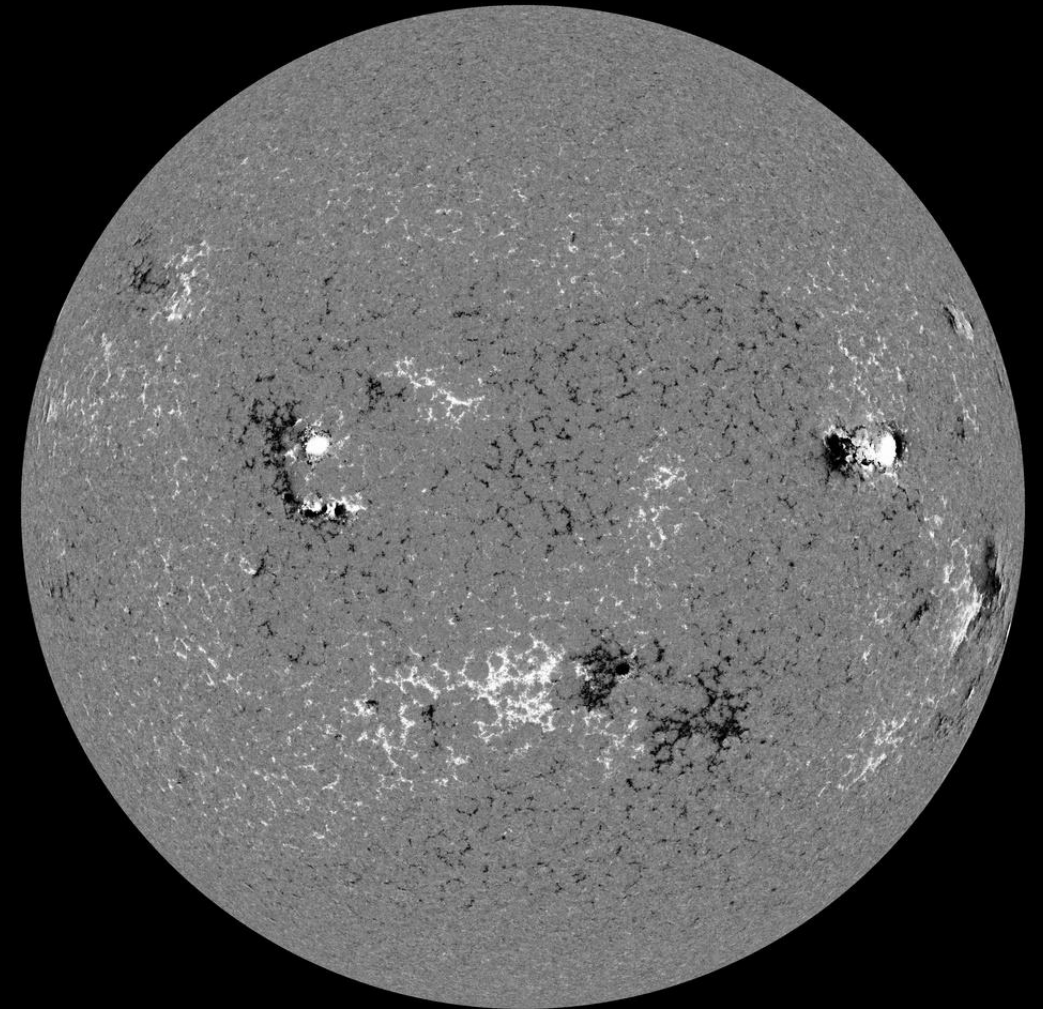
Solar active regions

SDO/HMI White Light 2025-08-03



SDO/HMI Quick-Look Continuum: 20250803_114500

SDO/HMI Magnetogram 2025-08-03

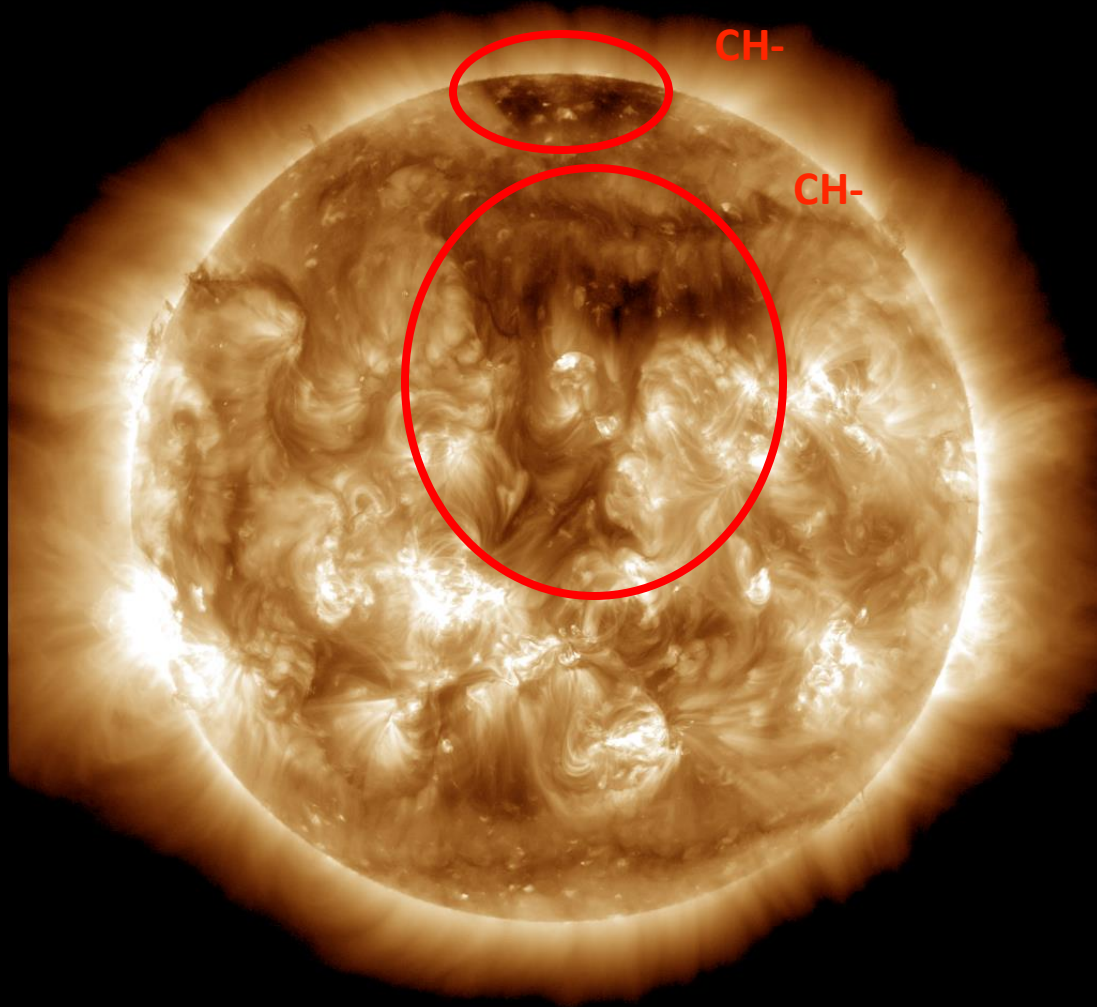


SDO/HMI Quick-Look Magnetogram: 20250803_114500

Coronal holes

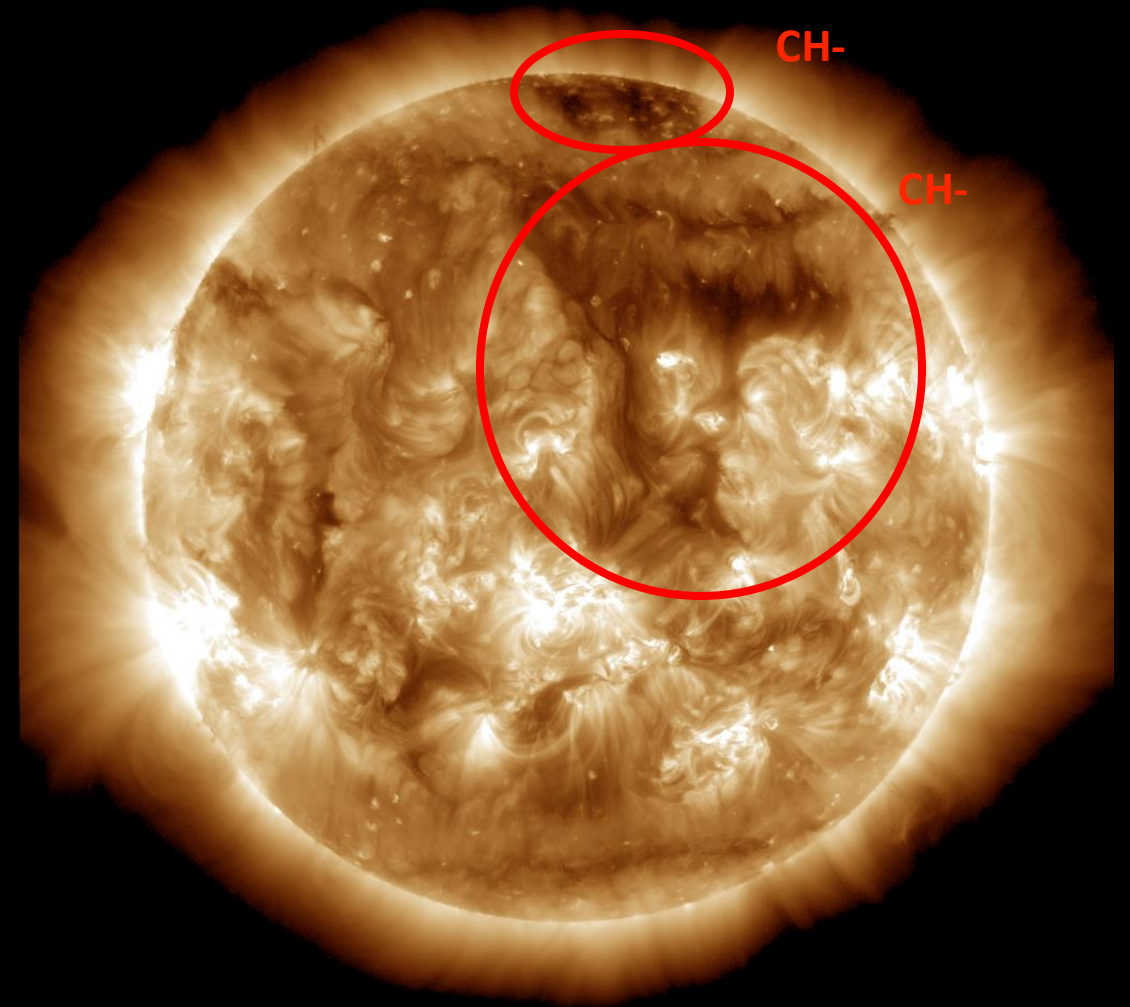
SDO/AIA 19.3 nm 2025-07-28

SDO/AIA AIA 193Å 2025-07-28T12:00:41.843



SDO/AIA 19.3 nm 2025-07-29

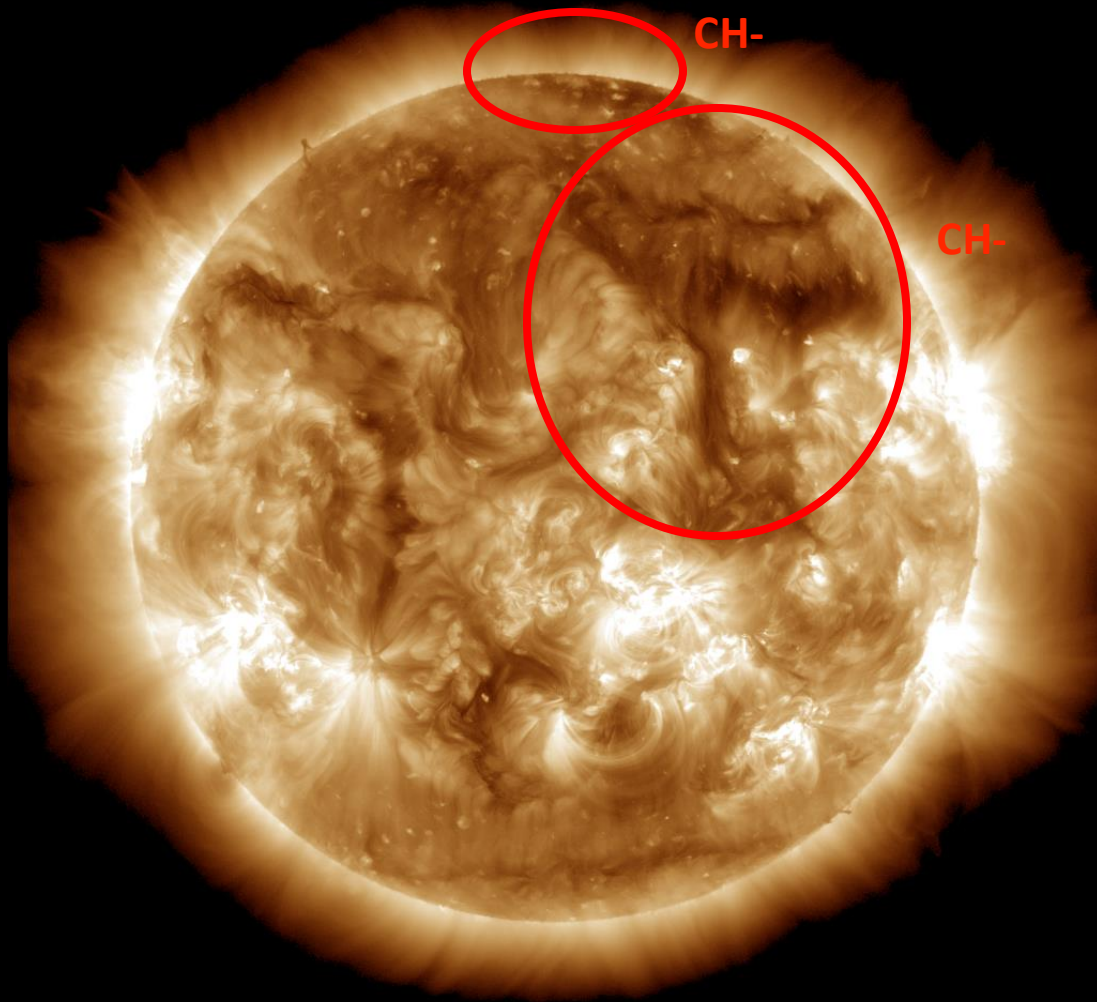
SDO/AIA AIA 193Å 2025-07-29T12:00:05.846



Coronal holes

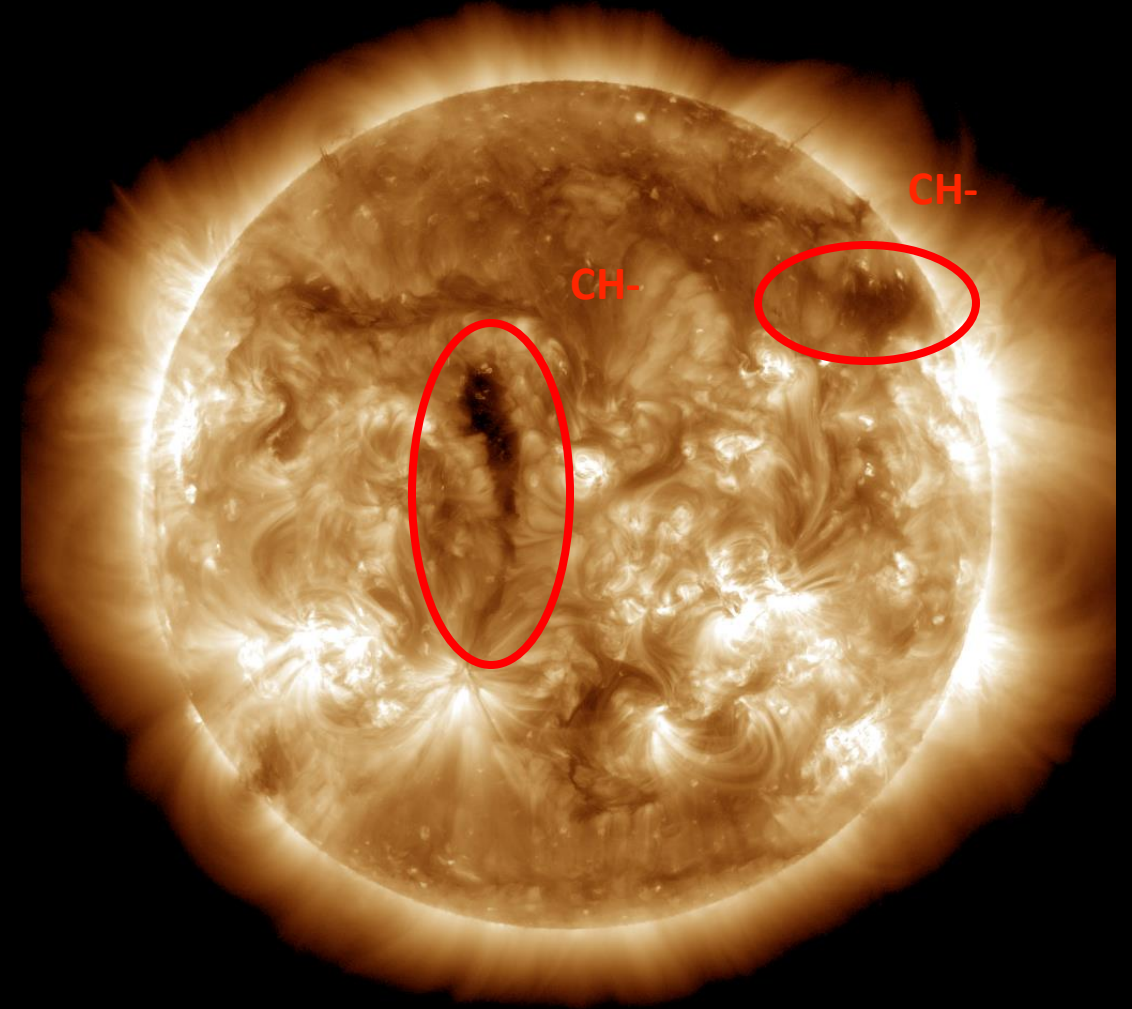
SDO/AIA 19.3 nm 2025-07-30

SDO/AIA AIA 193Å 2025-07-30T12:00:05.846



SDO/AIA 19.3 nm 2025-07-31

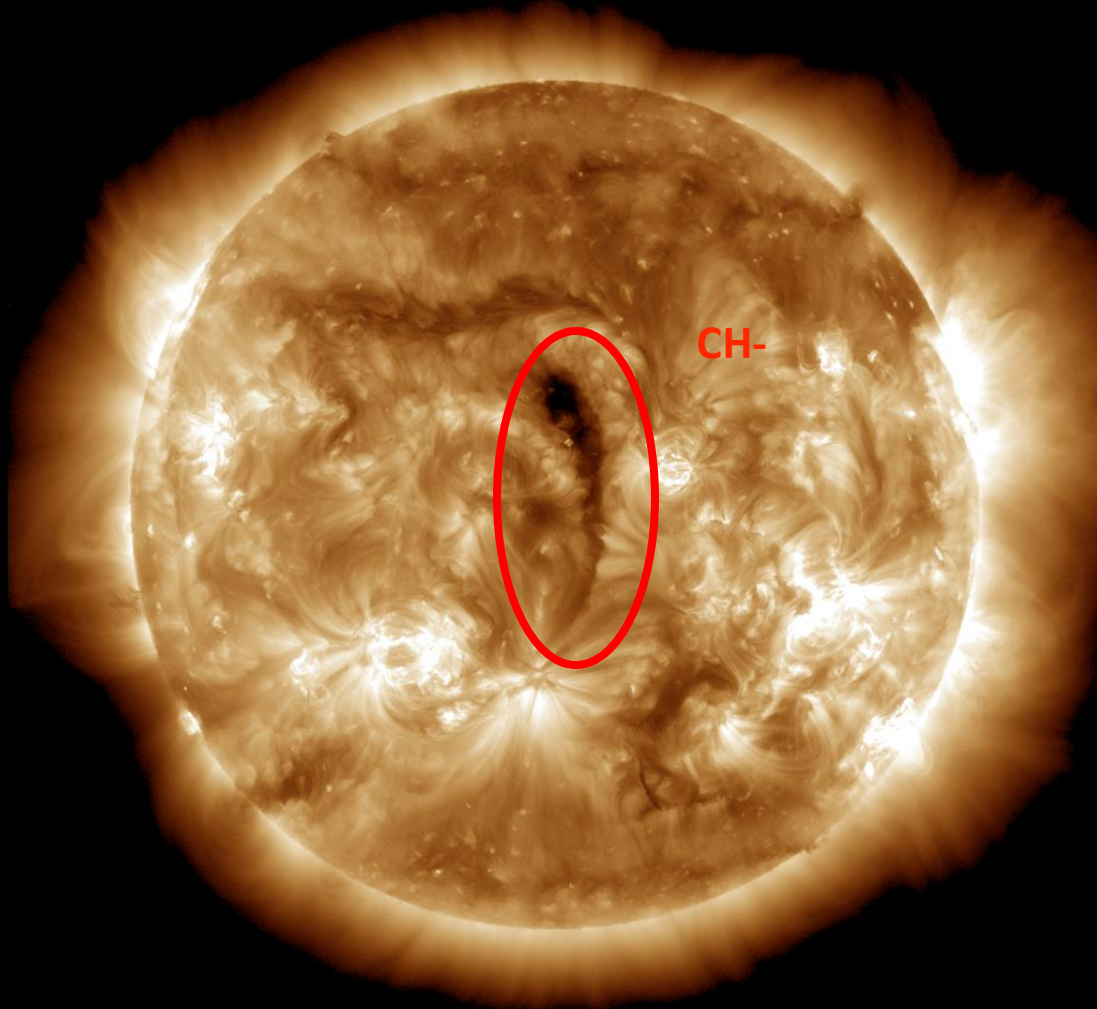
SDO/AIA AIA 193Å 2025-07-31T12:00:05.843



Coronal holes

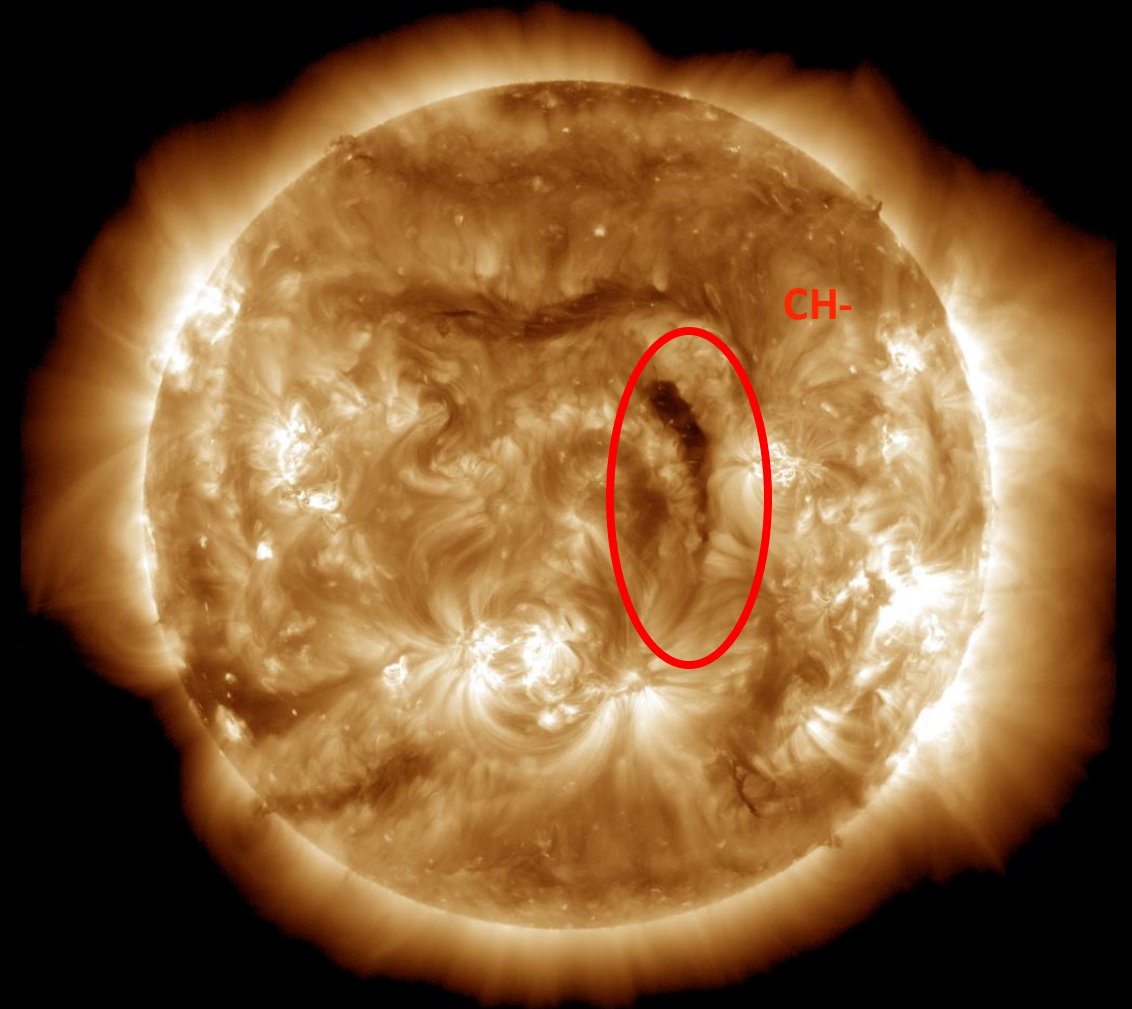
SDO/AIA 19.3 nm 2025-08-01

SDO/AIA AIA 193Å 2025-08-01T12:00:05.843



SDO/AIA 19.3 nm 2025-08-02

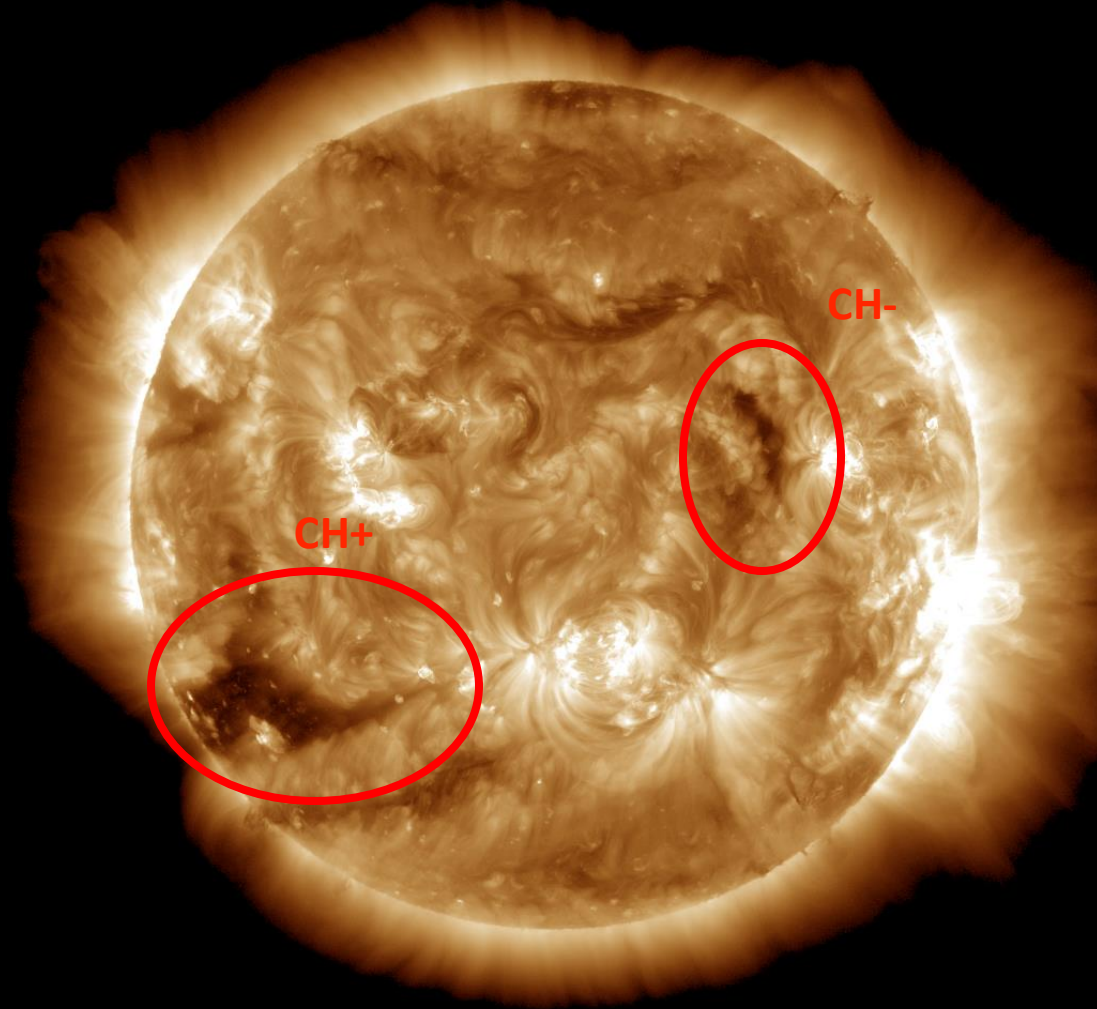
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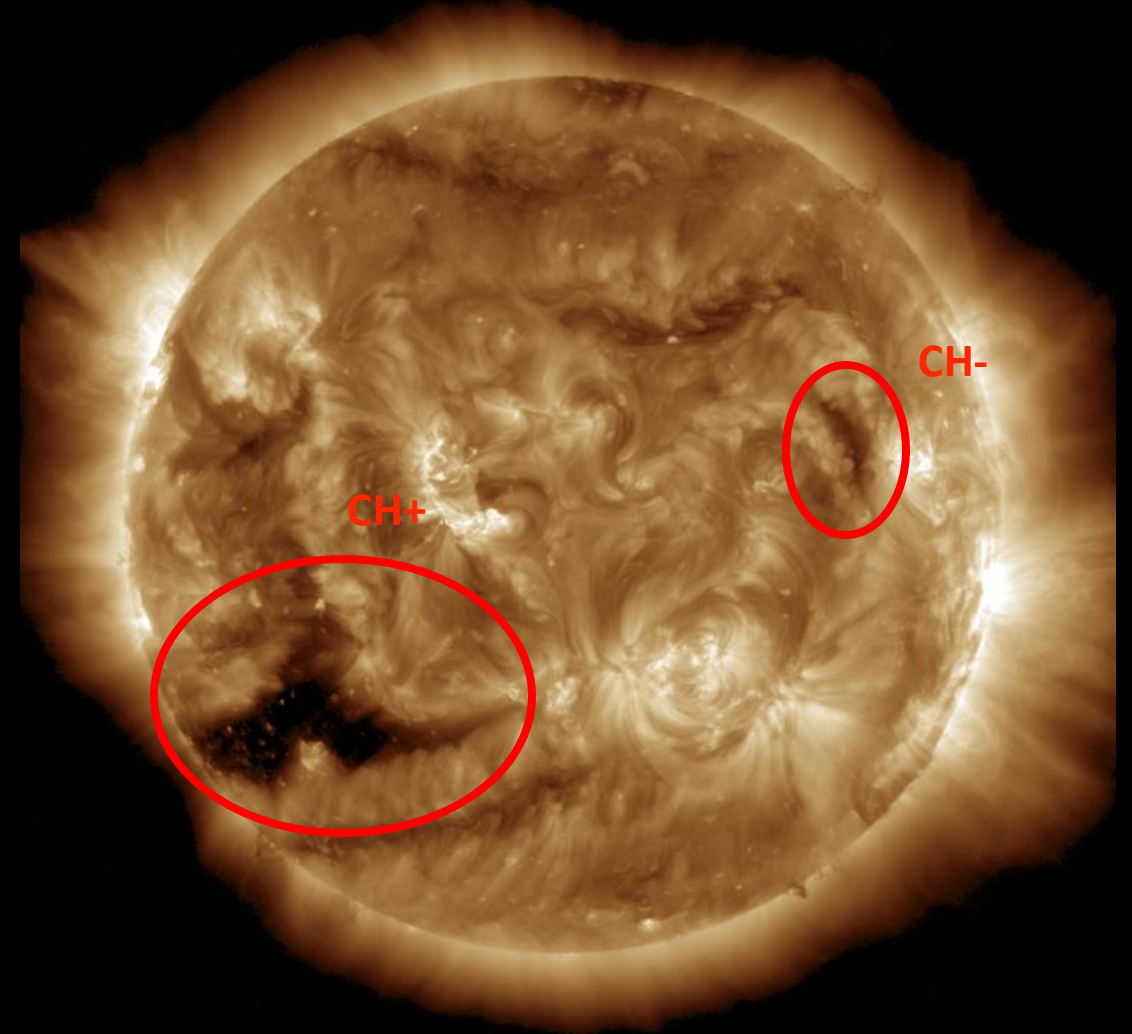
Coronal holes

SDO/AIA 19.3 nm 2025-08-03

SDO/AIA AIA 193Å 2025-08-03T12:00:17.843



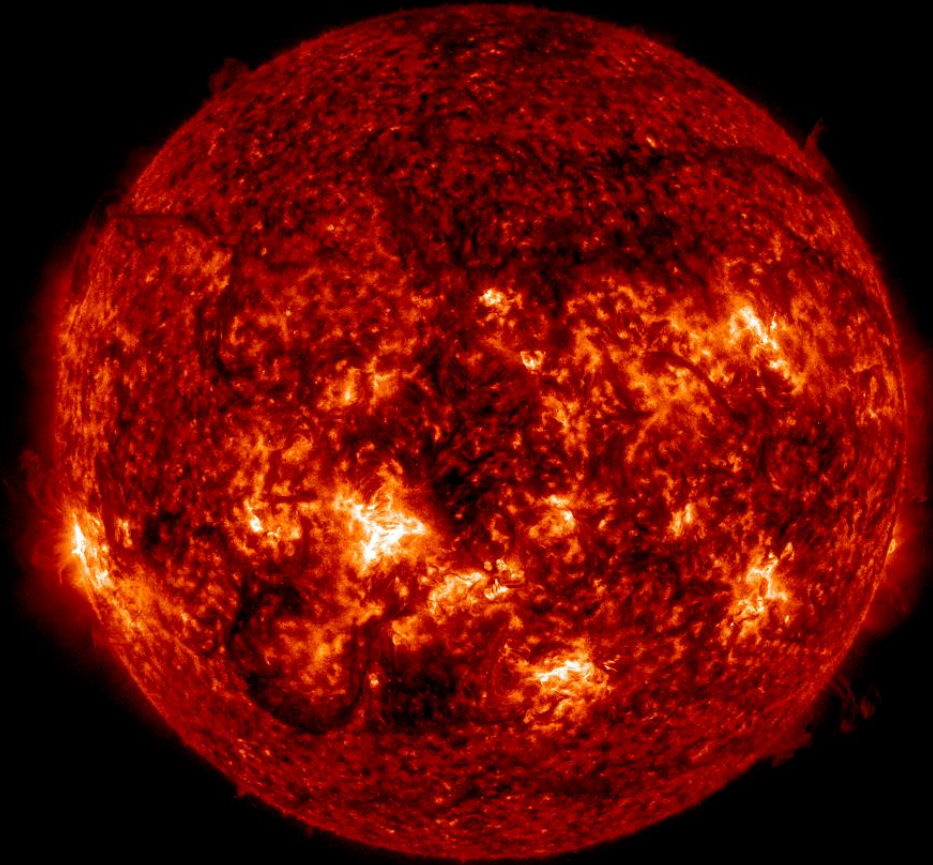
SDO/AIA 19.3 nm 2025-08-04



Filaments

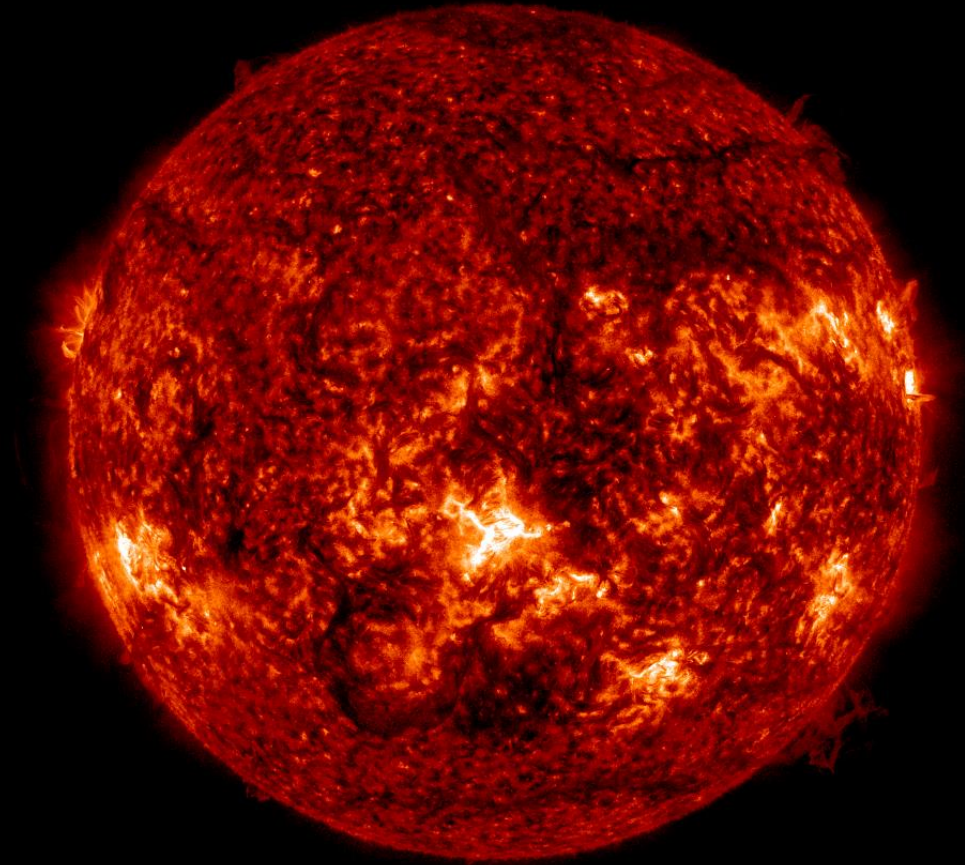
SDO/AIA 30.4 nm 2025-07-28

SDO/AIA AIA 304Å 2025-07-28T12:00:18.588



SDO/AIA 30.4 nm 2025-07-29

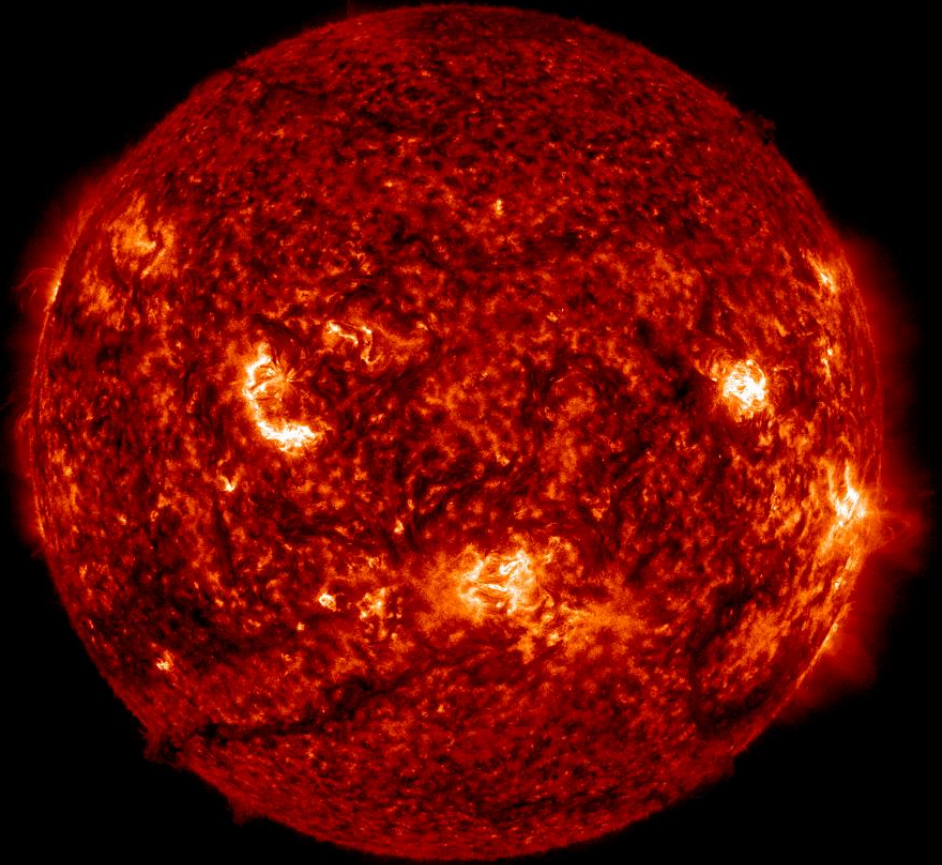
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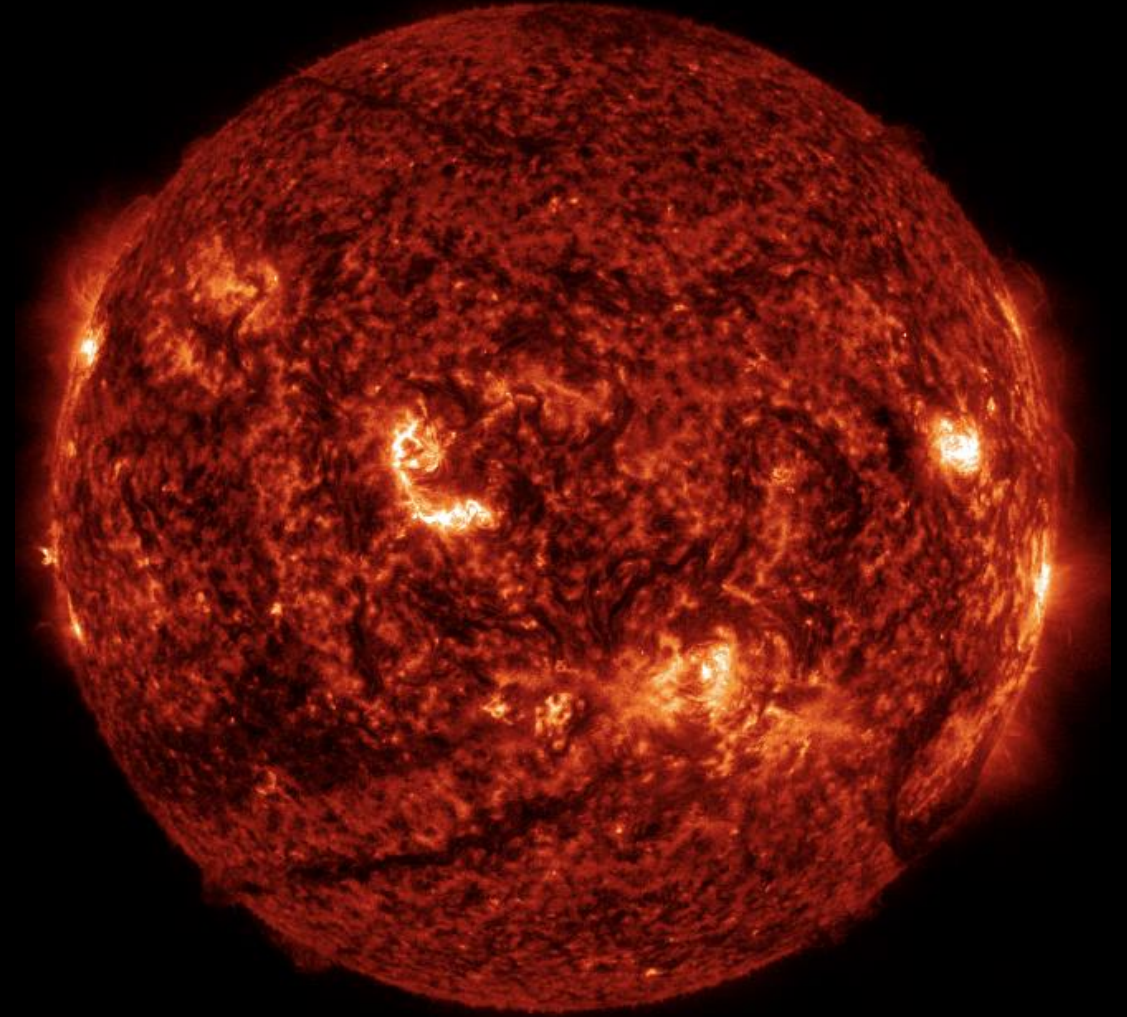
Filaments

SDO/AIA 30.4 nm 2025-08-03

SDO/AIA AIA 304Å 2025-08-03T12:00:30.580

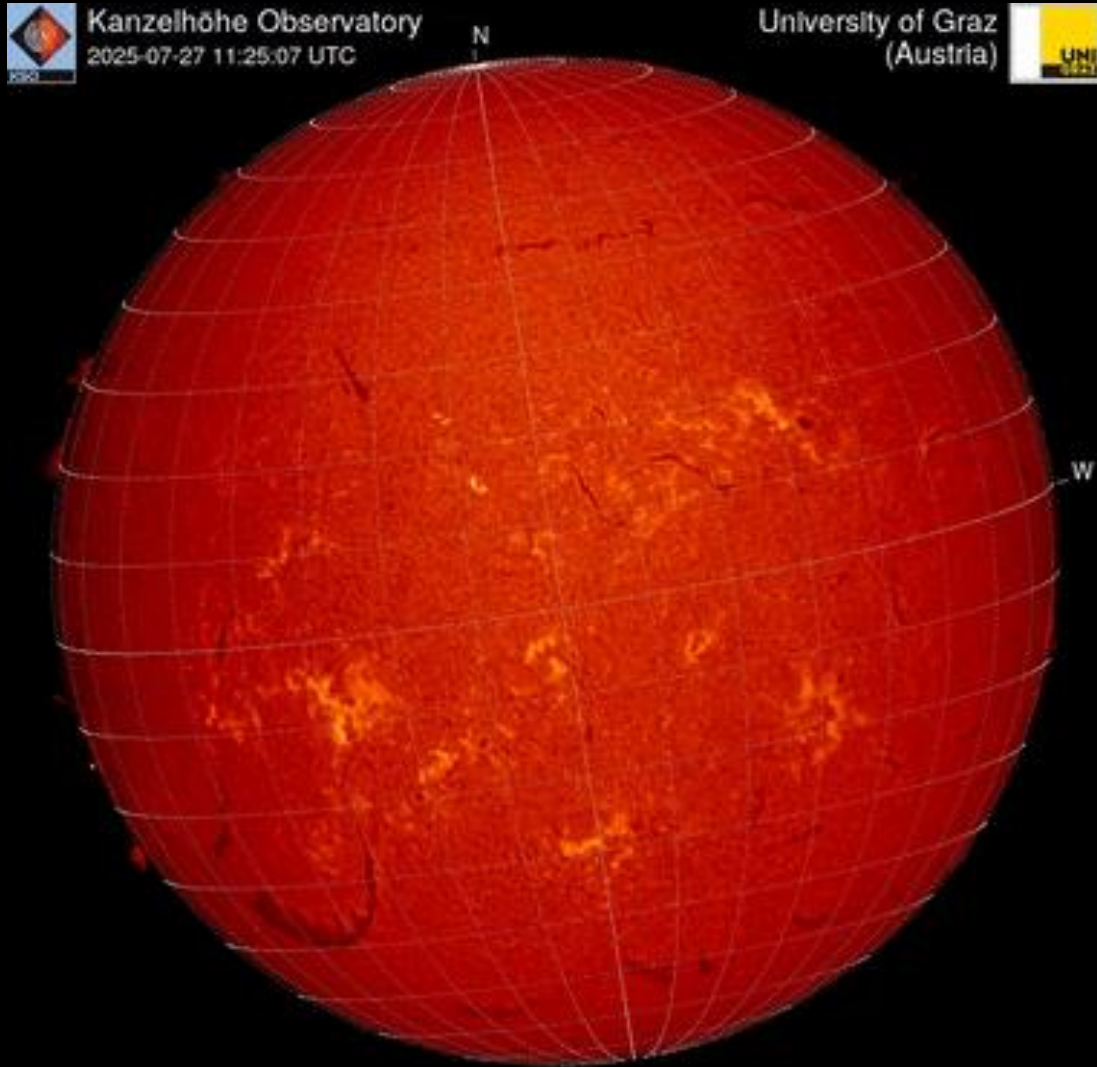


SDO/AIA 30.4 nm 2025-08-04

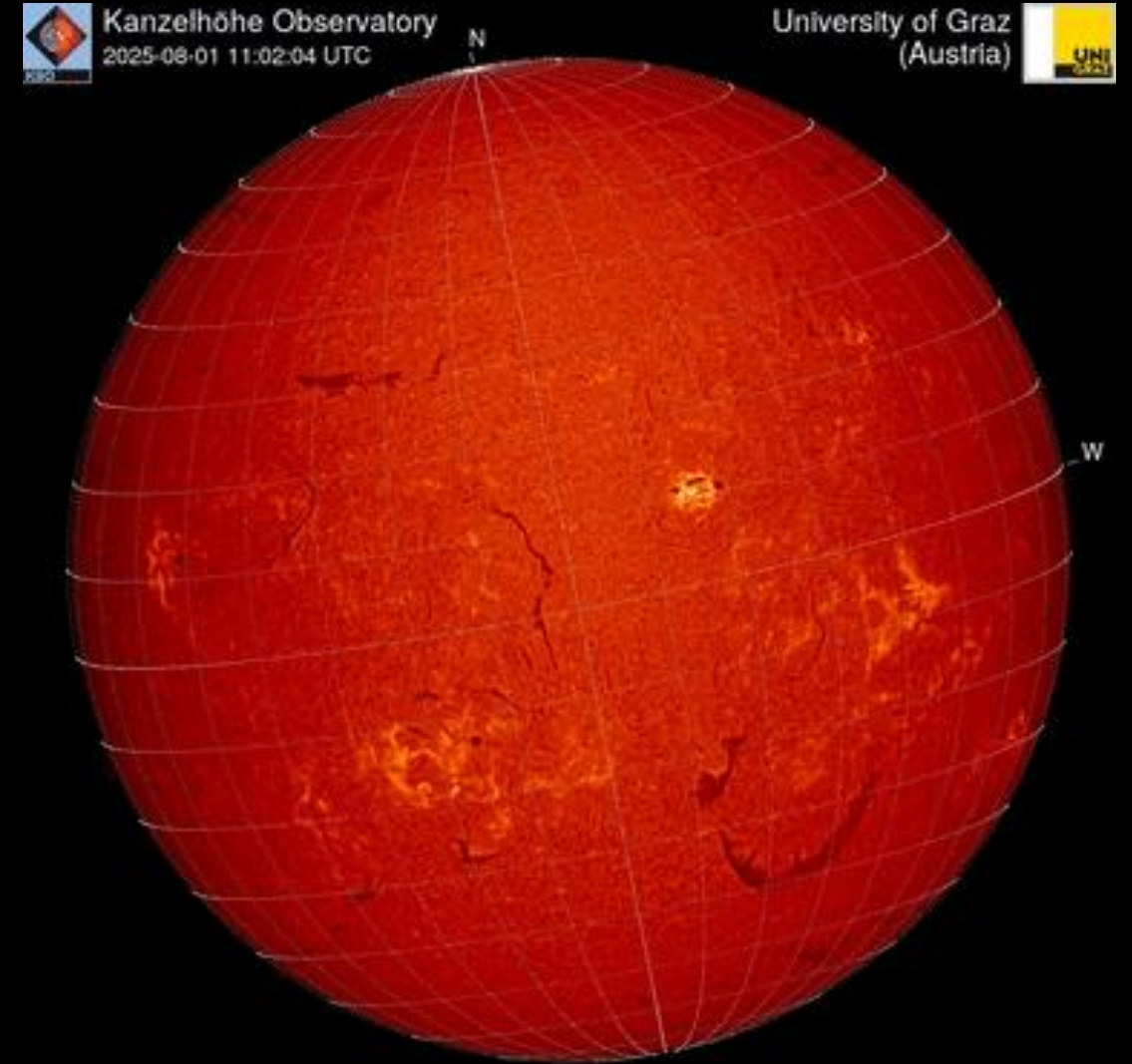


Filaments & Filament eruptions

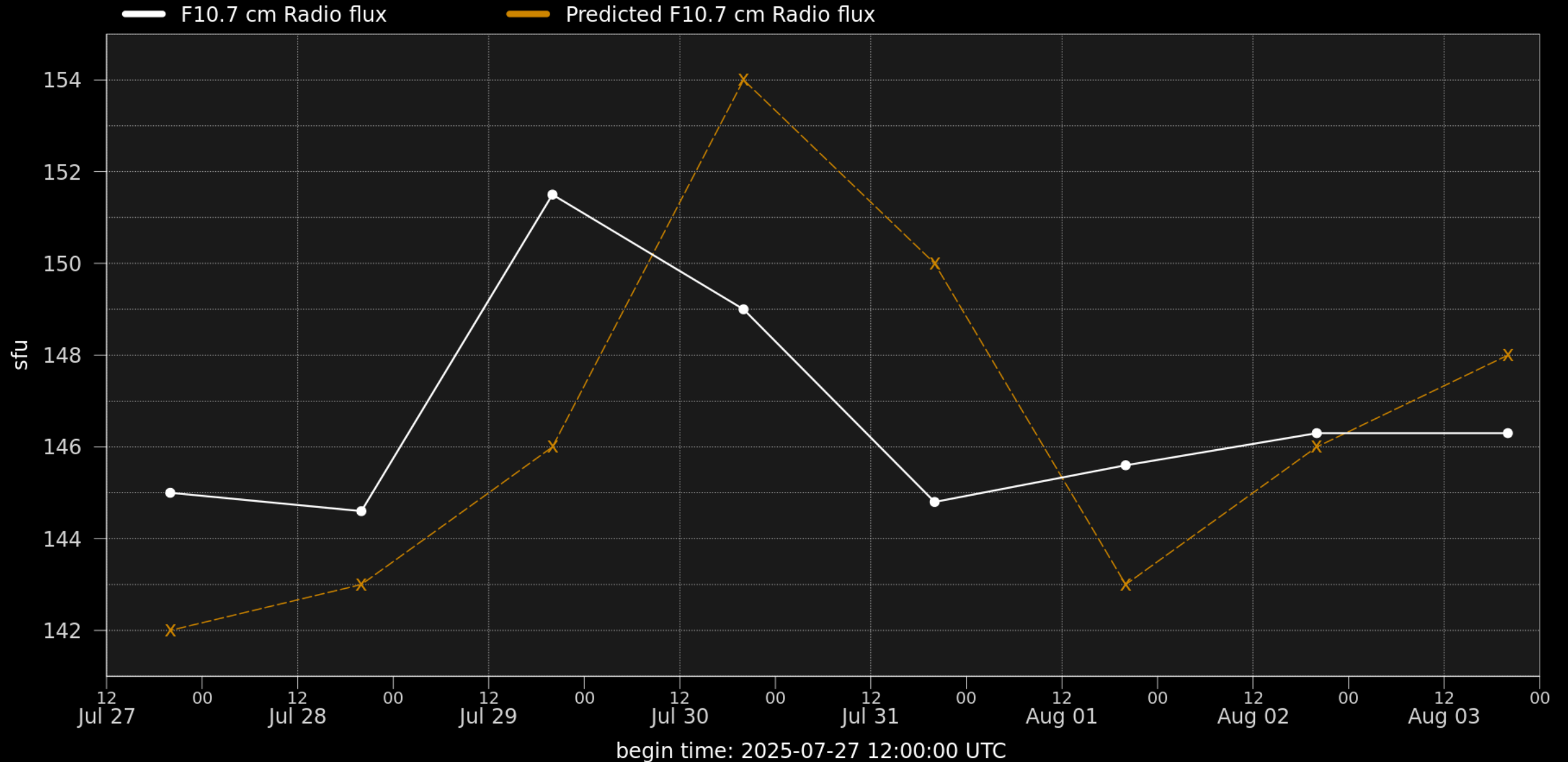
H-alpha 2025-07-28



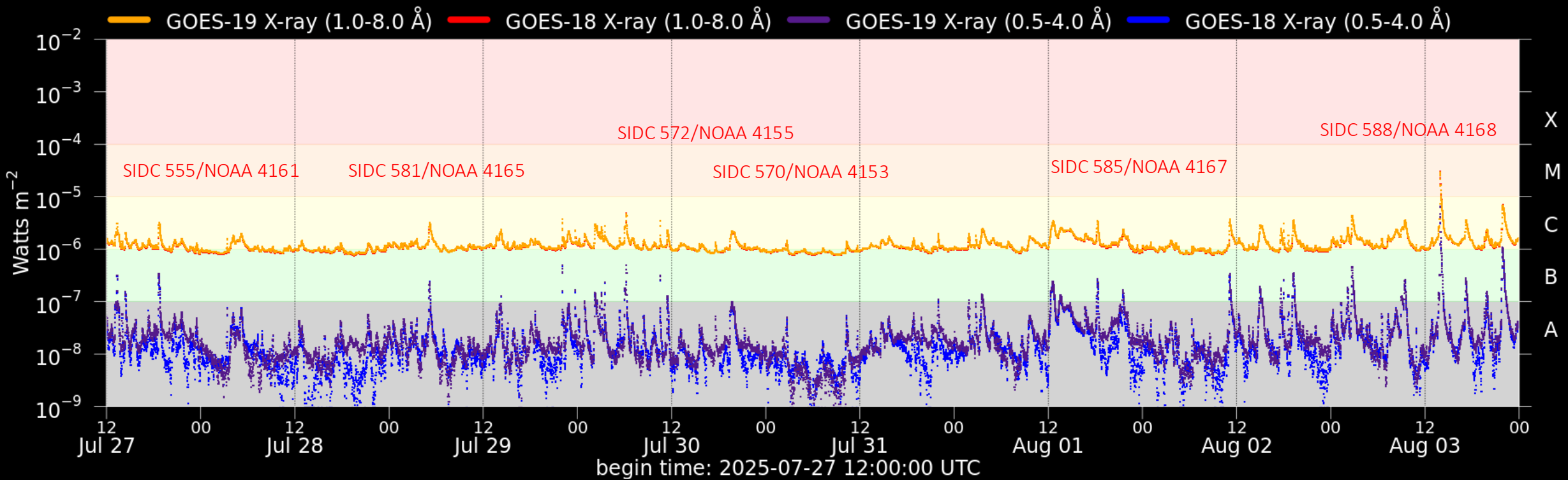
H-alpha 2025-08-03



Solar F10.7cm radio flux



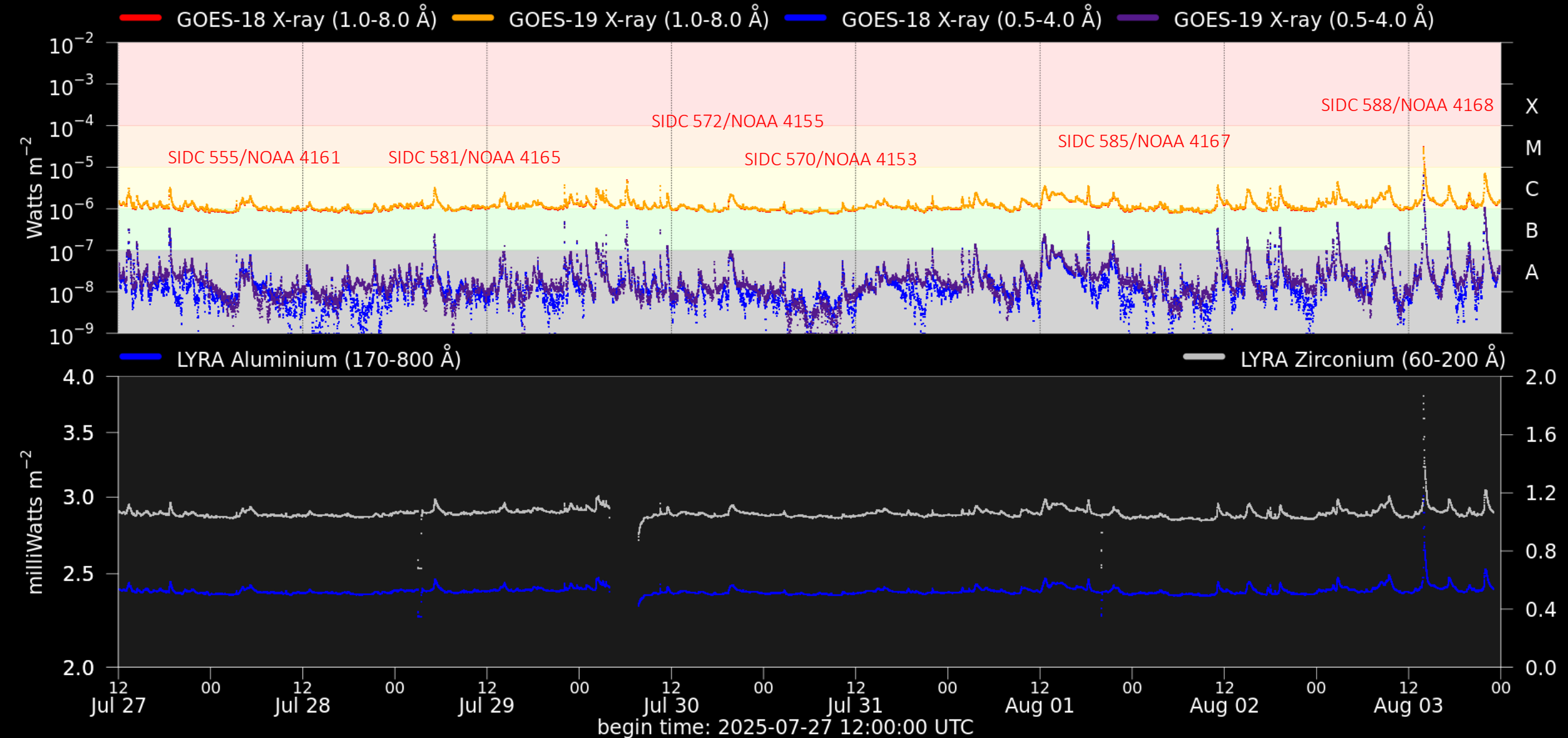
Flaring activity



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

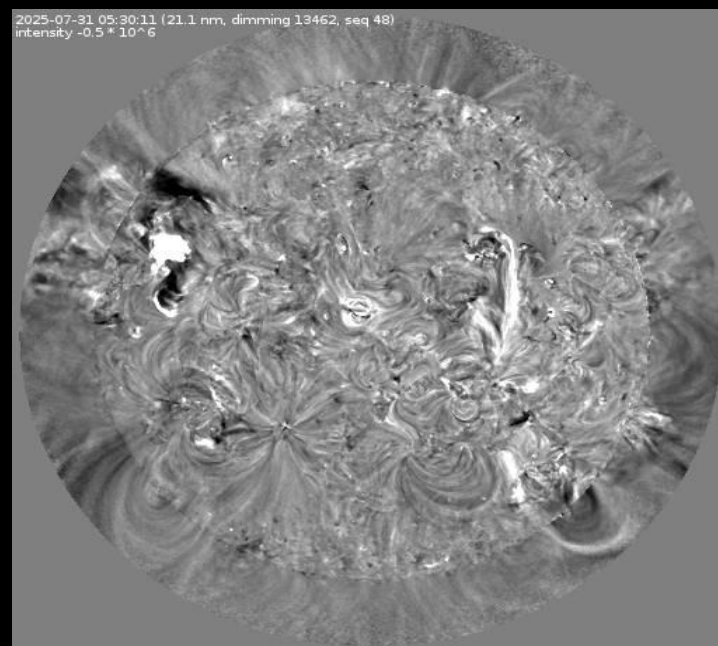
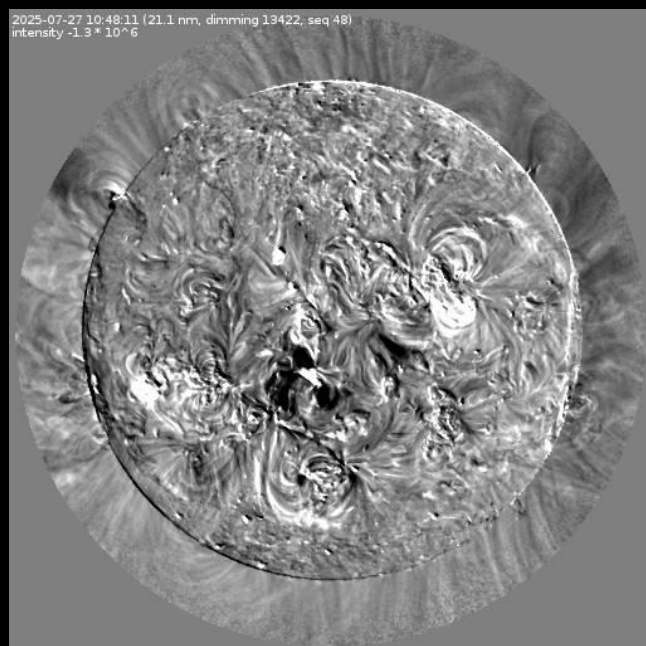
Issue date	2025-07-27	2025-07-28	2025-07-29	2025-07-30	2025-07-31	2025-08-01	2025-08-02	2025-08-03
Probability (%)	93 42 04	97 45 04	96 36 02	99 56 06	97 43 04	99 53 01	99 71 24	99 75 10
Observed (#)	04 00 00	01 00 00	10 00 00	03 00 00	03 00 00	03 00 00	06 00 00	04 01 00

Solar X-Ray and UV flux

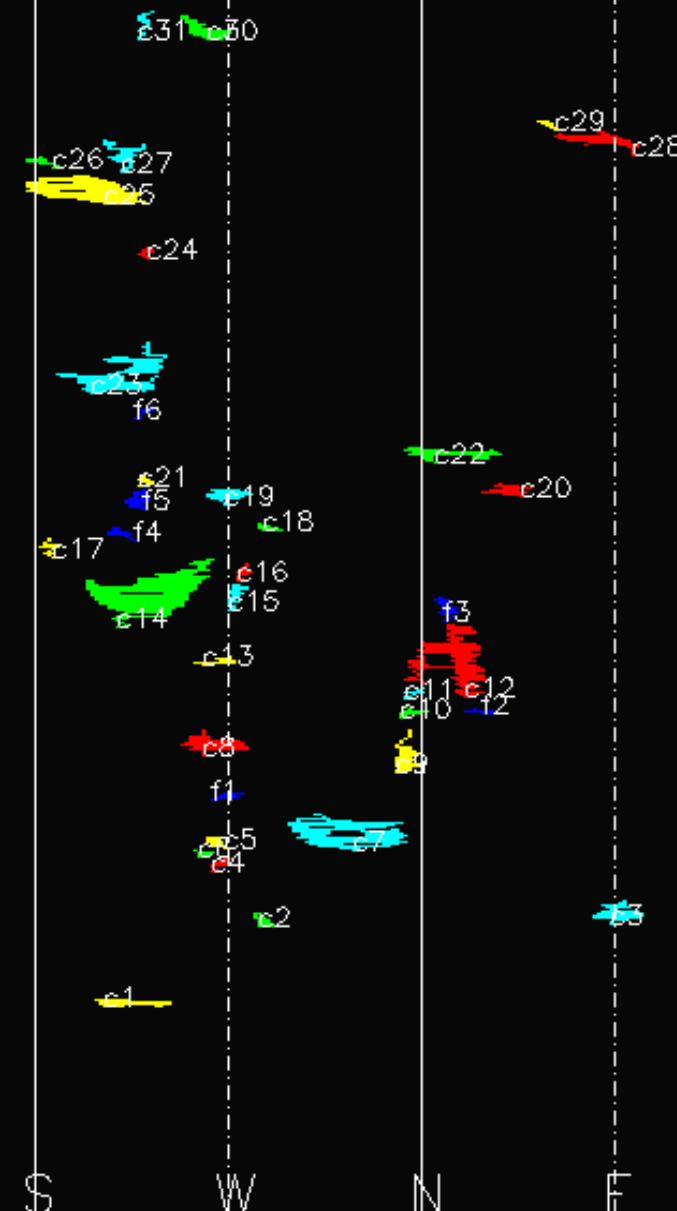


Coronal Mass Ejections

No Earth-directed CMEs



A few interesting dimmings



Solar Wind and

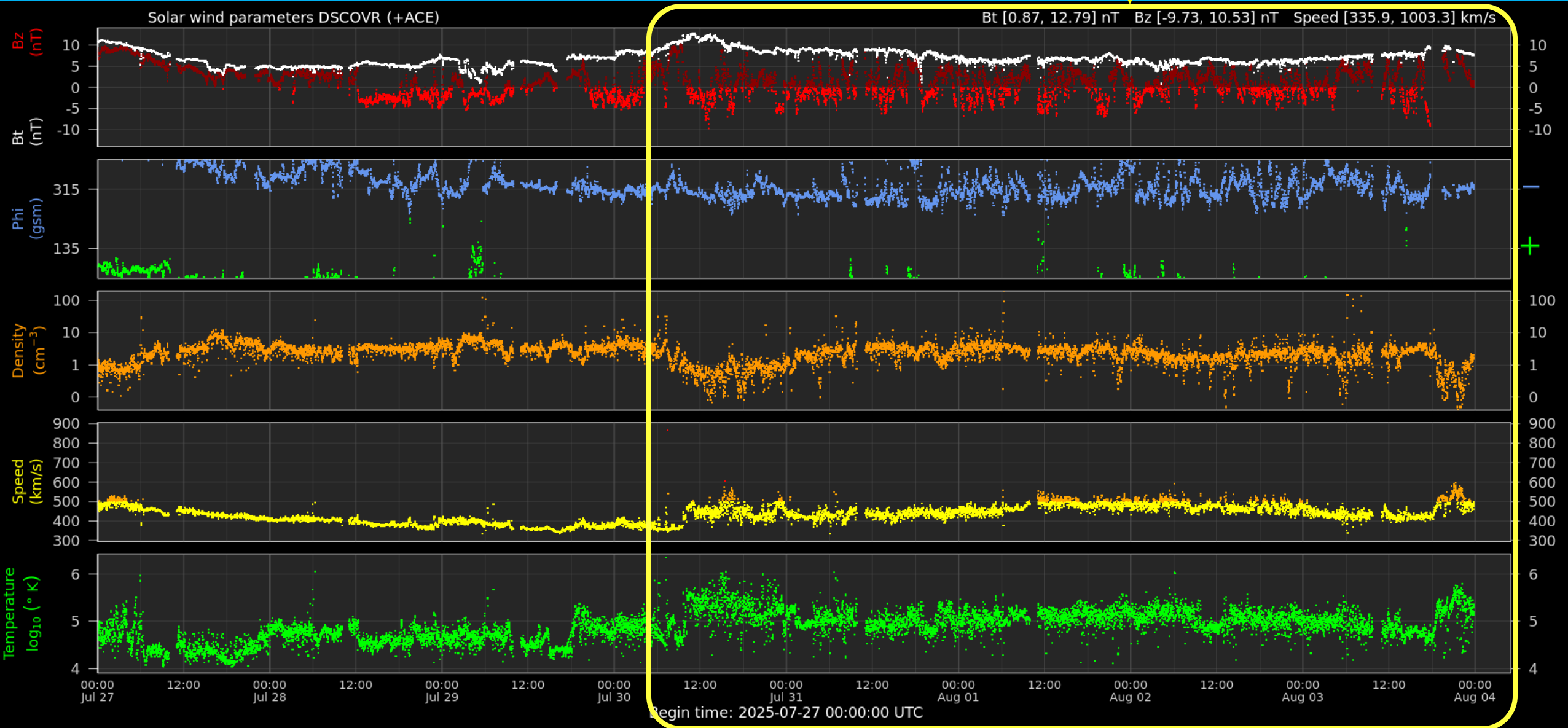
Geomagnetic Activity



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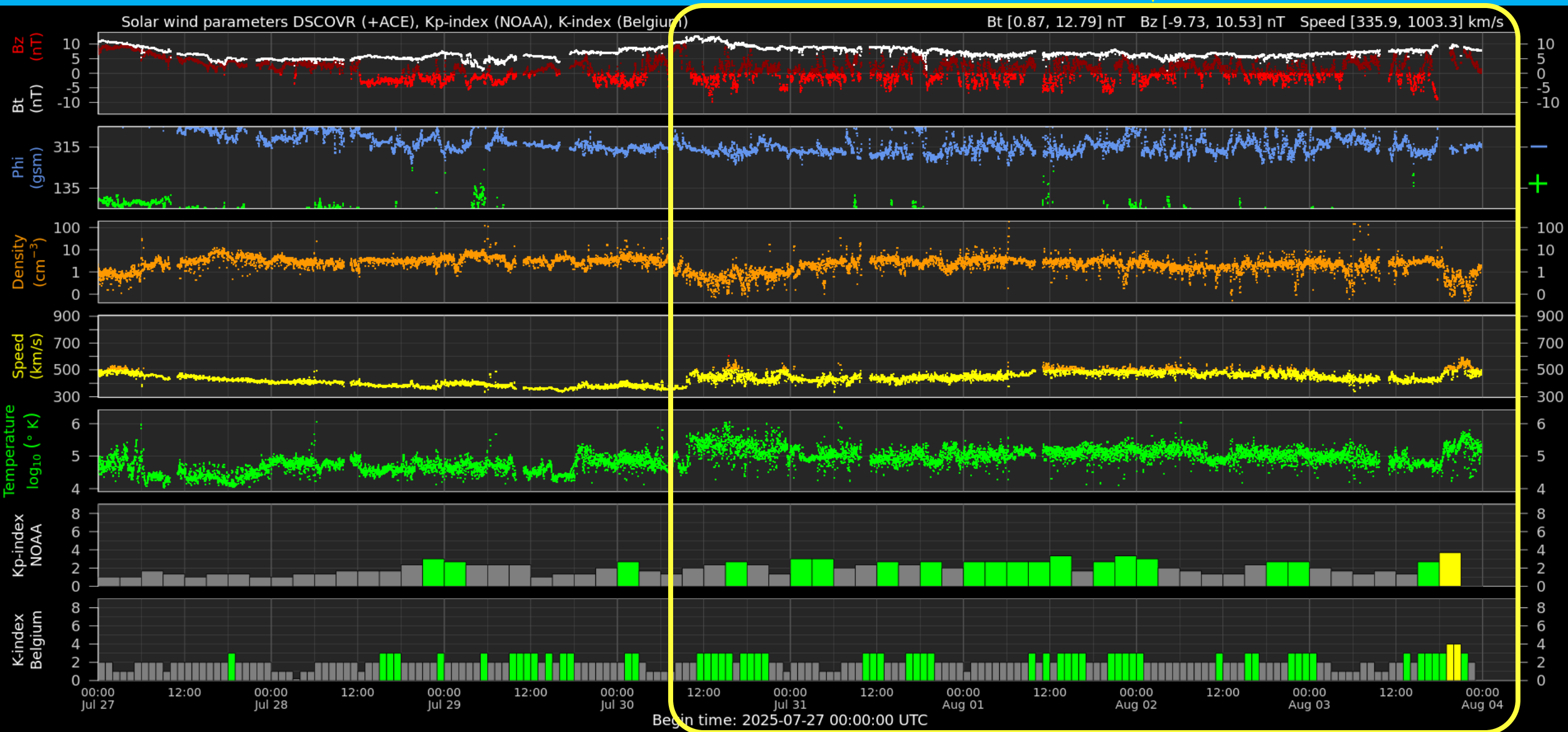
Solar wind parameters

Mild connection to HSS

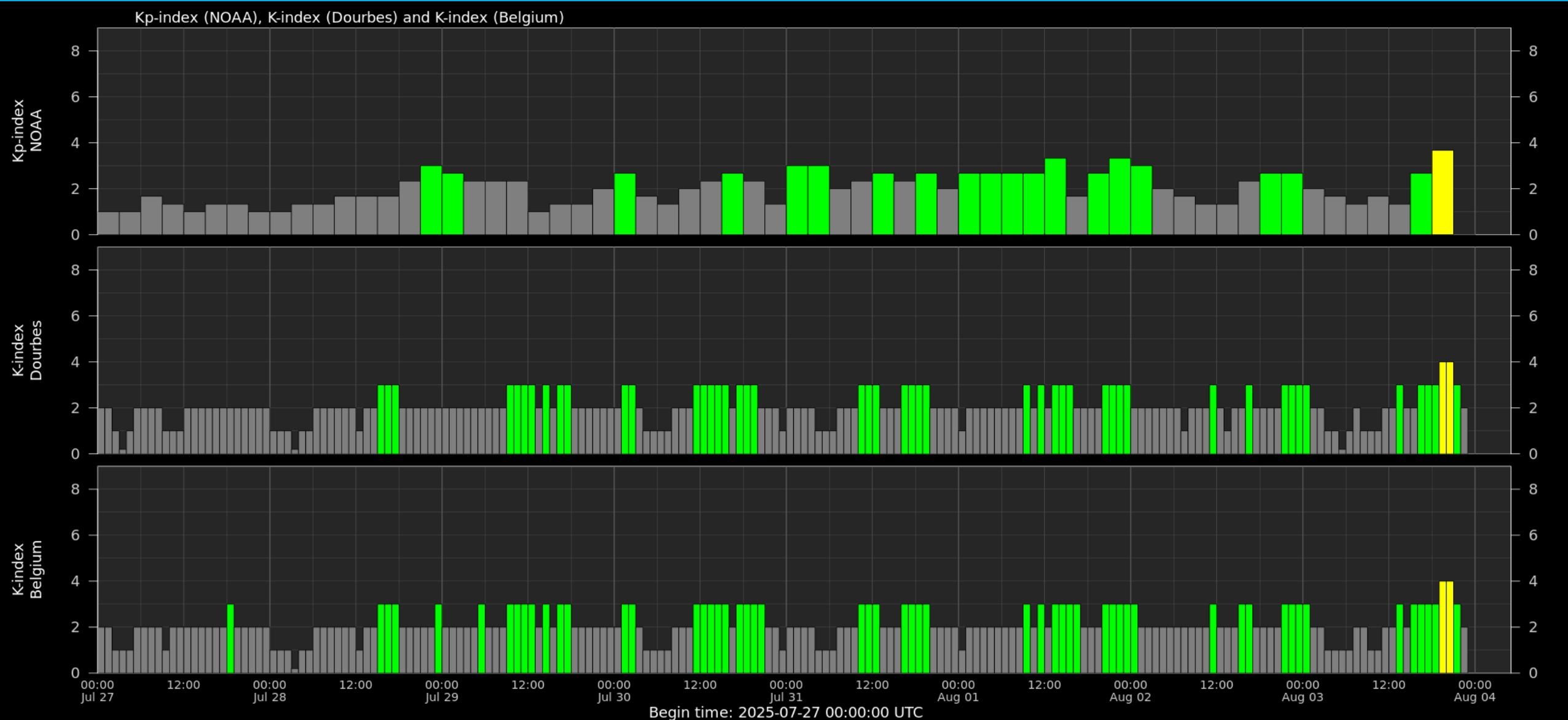


Solar wind parameters & K-indices

Mild connection to HSS



Geomagnetic activity (K-indexes)



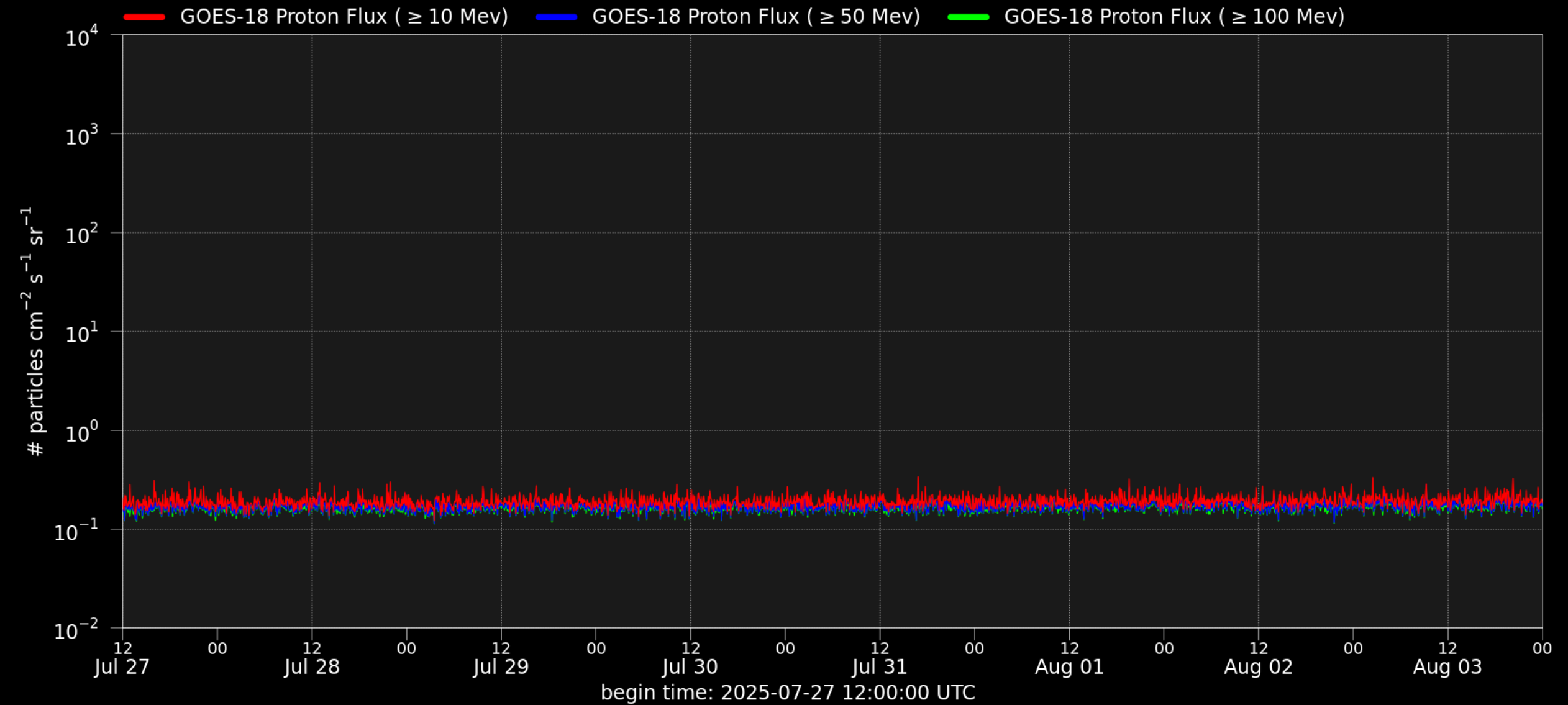
Energetic Particles



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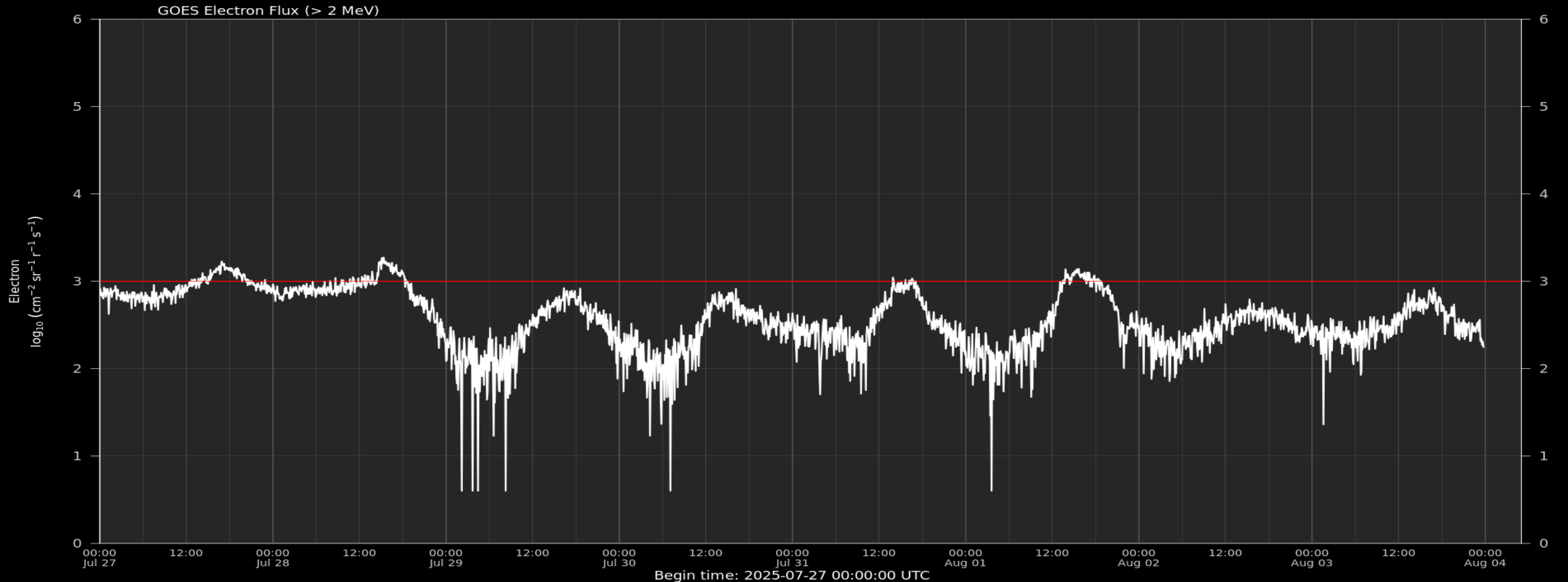
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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



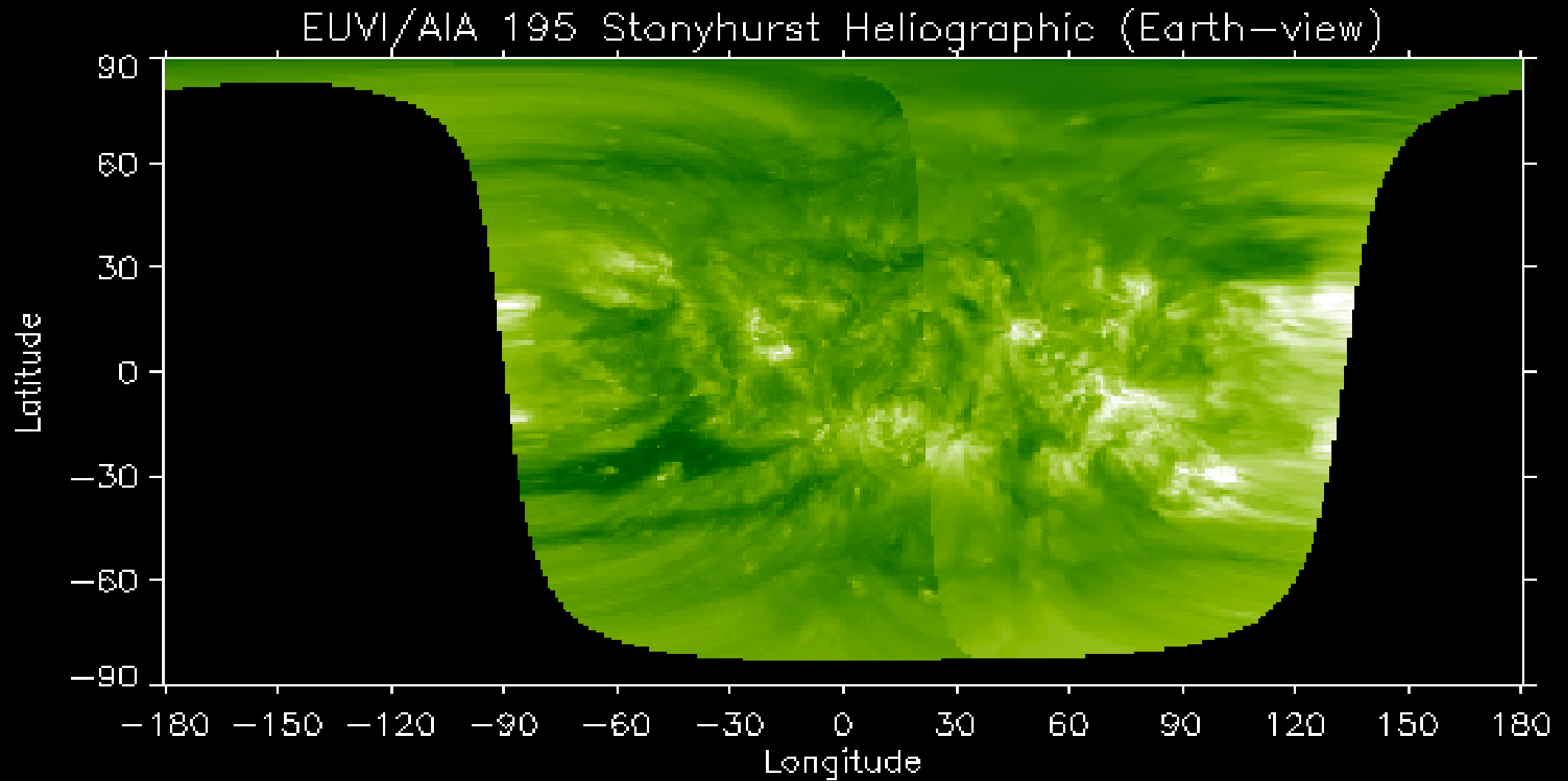
Outlook



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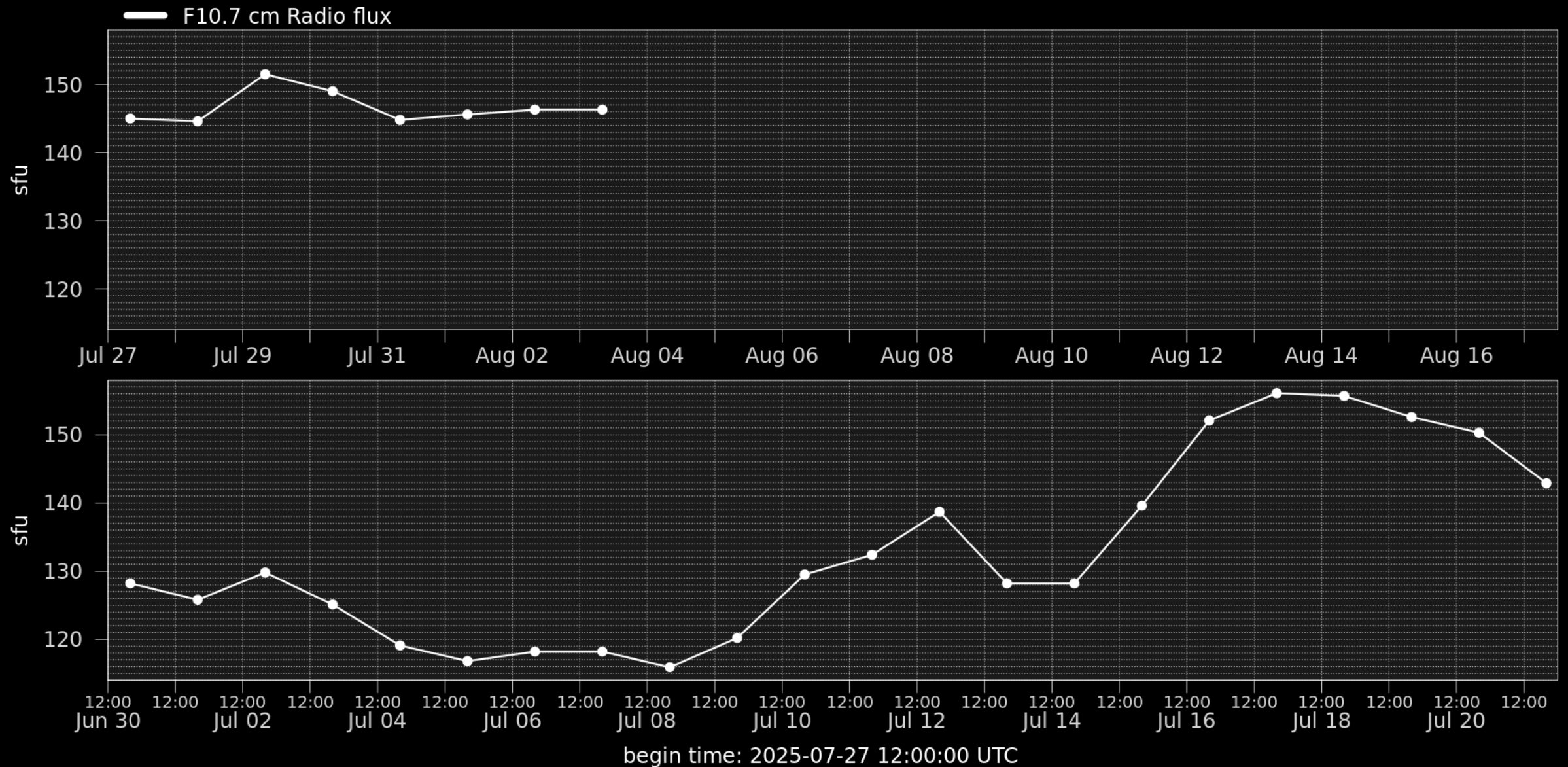
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Outlook: Solar activity

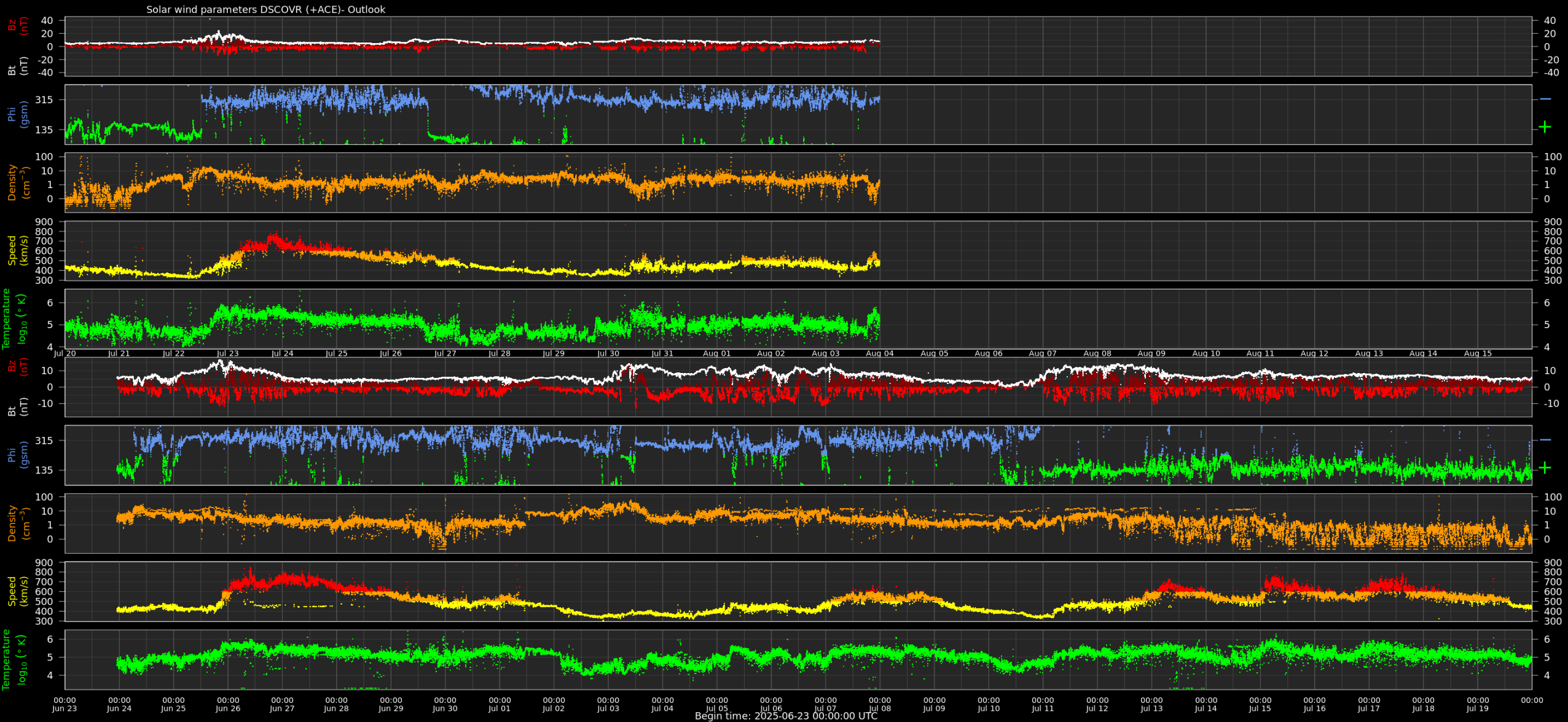


Observation date: 2025/08/03 22:55:00

Outlook: Solar F10.7cm radio flux



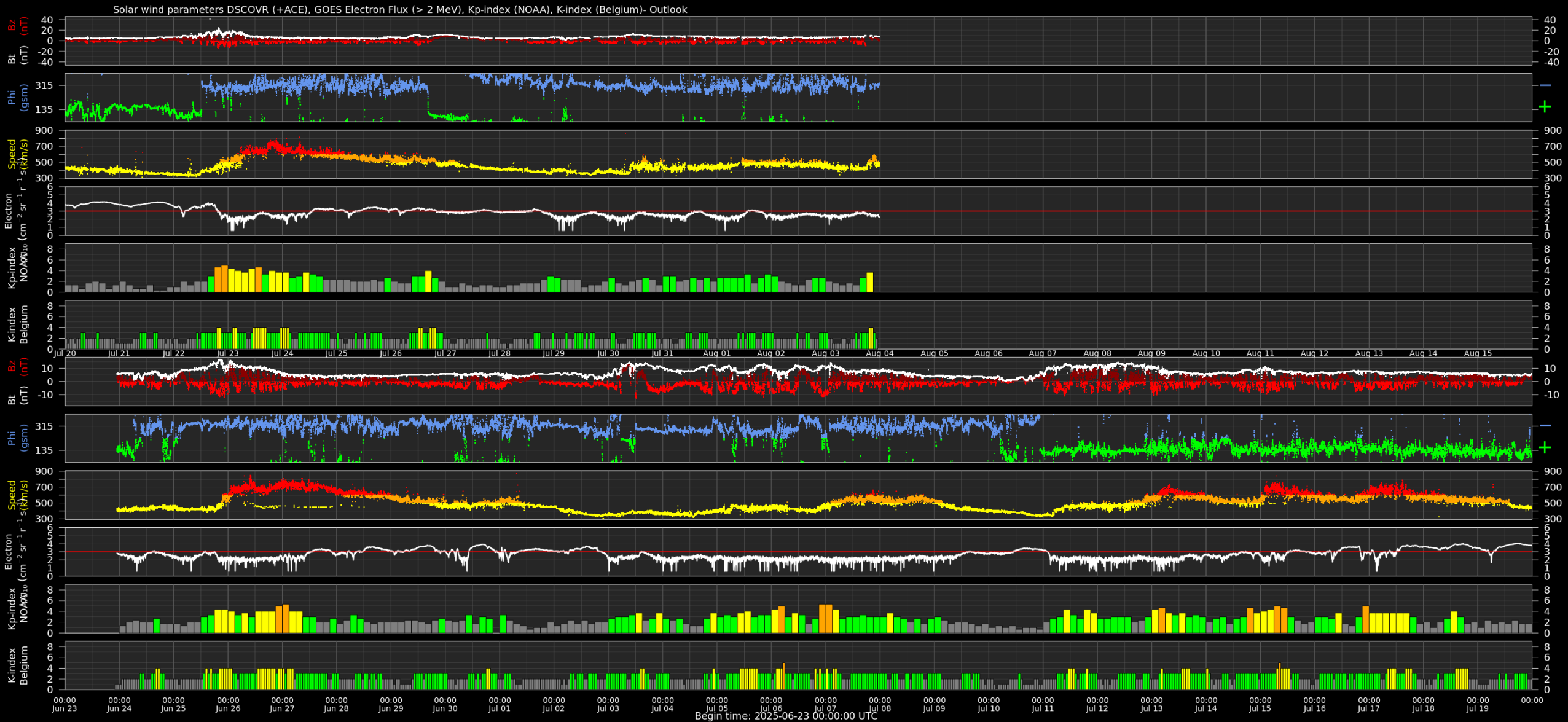
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



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Pegasus related events

Nothing interesting to report

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