

SIDC Space Weather Briefing

11 August 2025-17 August 2025

de Patoul Judith

& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2025-08-11 00:00 to 2025-08-17 23:59

Active regions	Many Active Regions
Flares	# C-class flare > 50 # M-class flare: 7 # X-class flare: 0
Coronal Holes	Equatorial Coronal Holes (SIDC CH 123, SIDC CH 116)
CMEs	No Earth directed CME.

Proton flux	At background level.
Electron flux	Above 1000 pfu

Solar wind and geomagnetic conditions

ICMEs	No ICMEs
Solar wind conditions	B : 1.62 - 8.45 nT // Bz: -6.6 nT to 7.5 nT // Speed: 296.1 - 709.8km/s
Geomagnetic conditions	max K _{Bel} : 4.0, max K _p (NOAA): 4.33, Active conditions

All Quiet Alert: Not quiet

Solar Activity

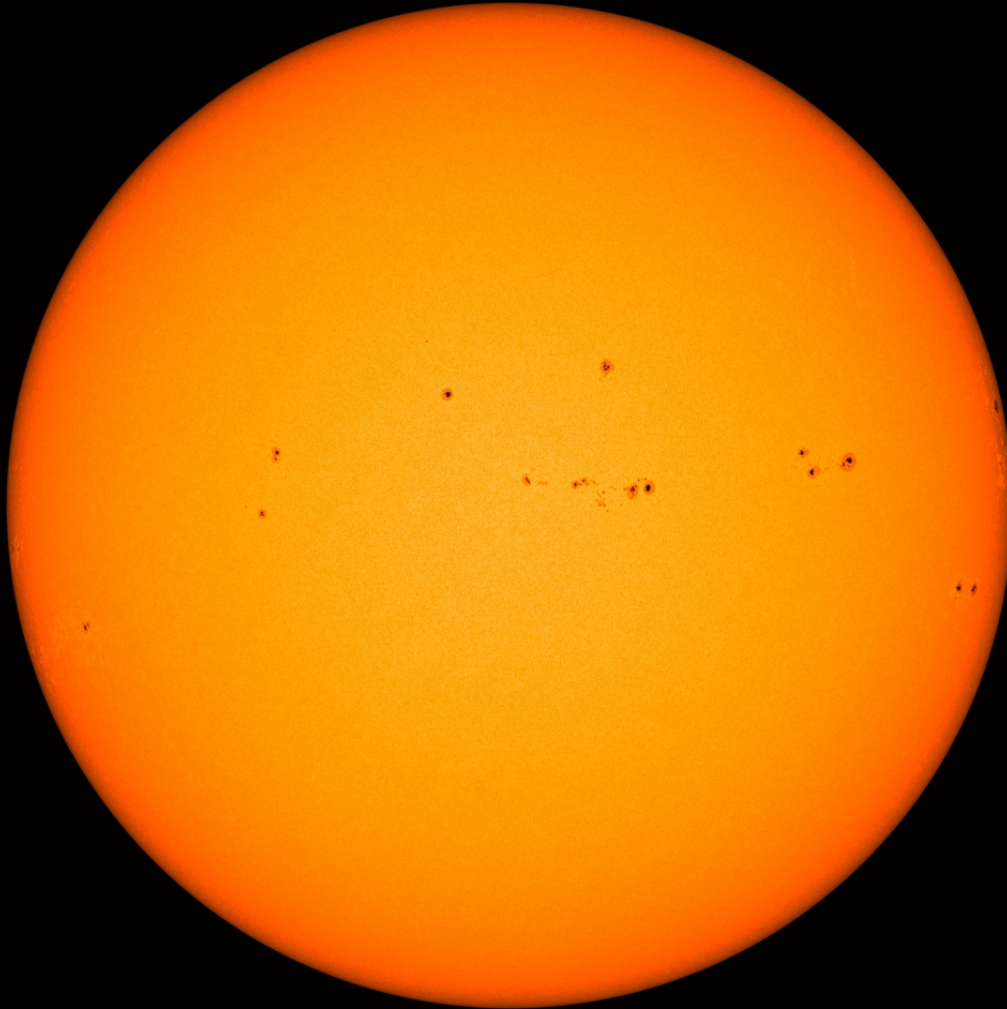


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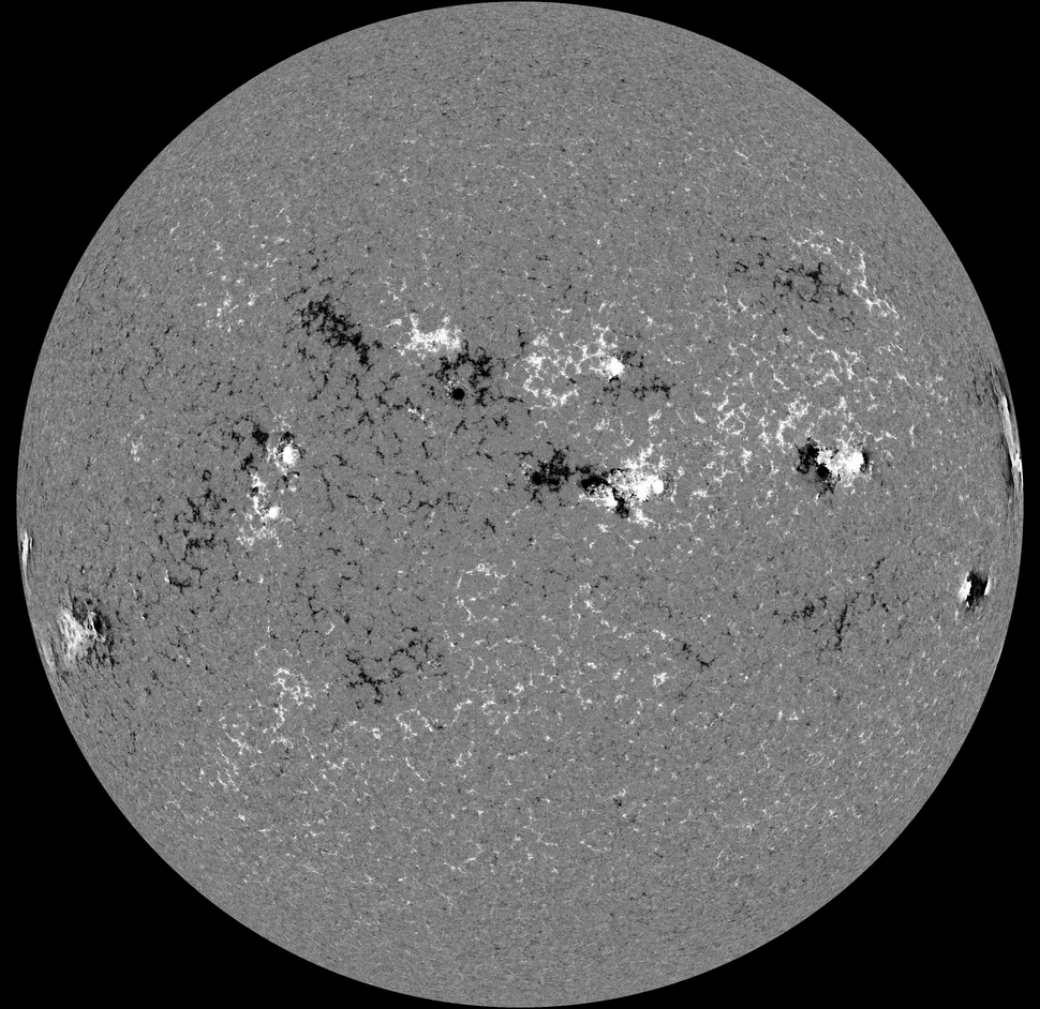
Solar active regions

SDO/HMI White Light 2025-08-11



SDO/HMI Quick-Look Continuum: 20250811_114500

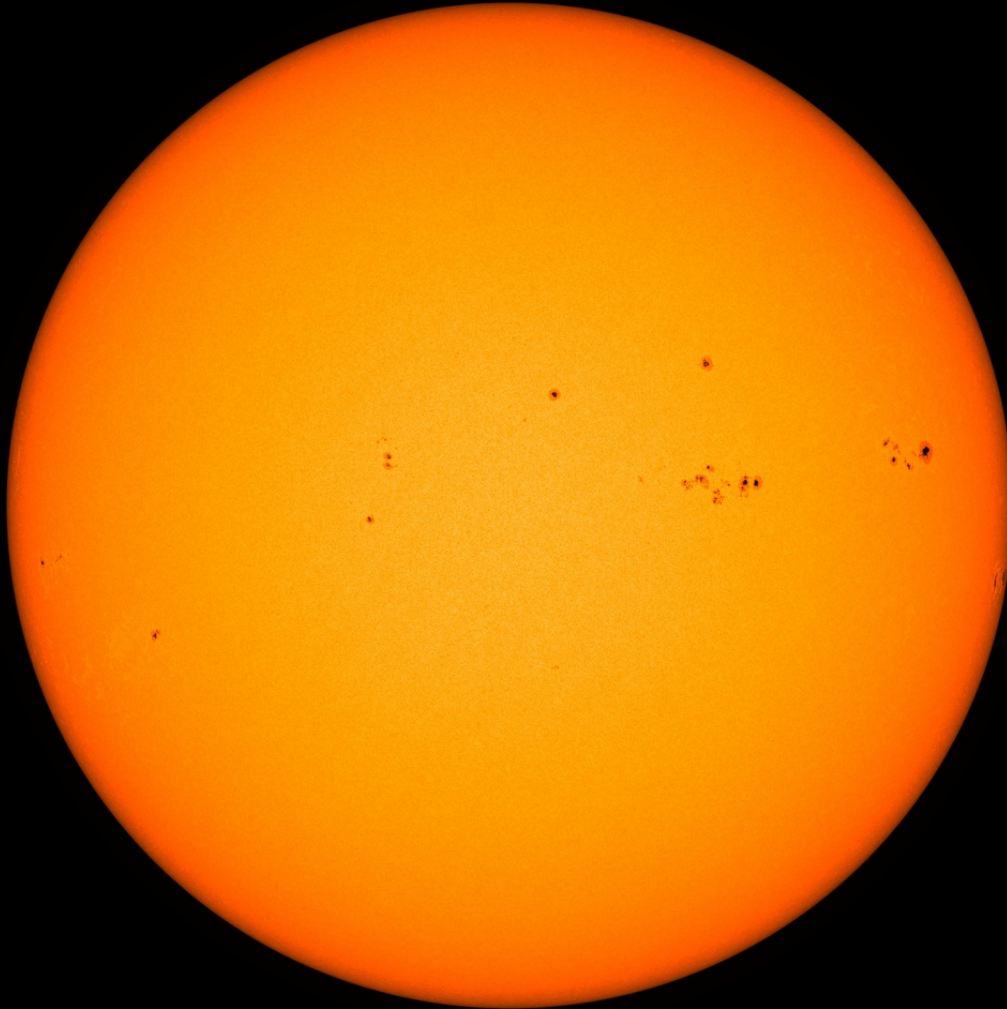
SDO/HMI Magnetogram 2025-08-11



SDO/HMI Quick-Look Magnetogram: 20250811_114500

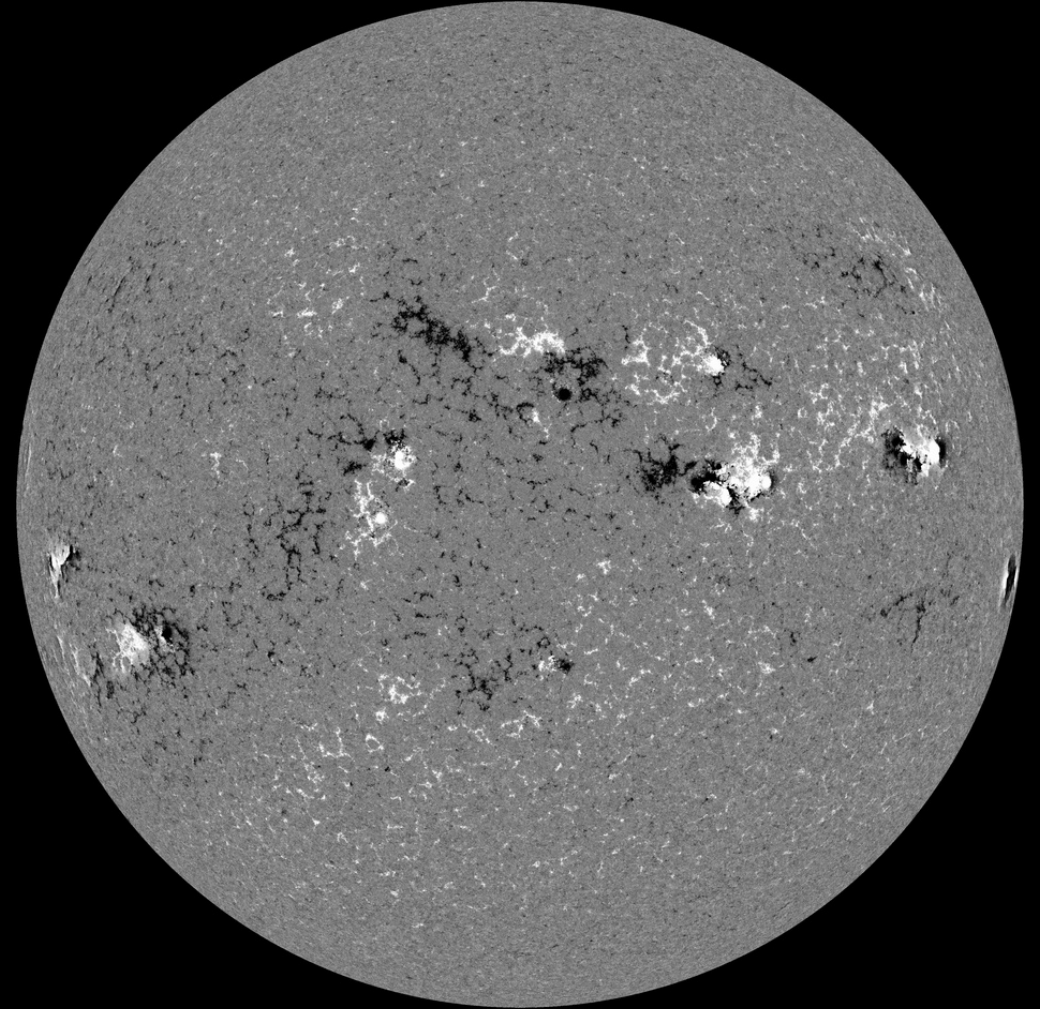
Solar active regions

SDO/HMI White Light 2025-08-12



SDO/HMI Quick-Look Continuum: 20250812_114500

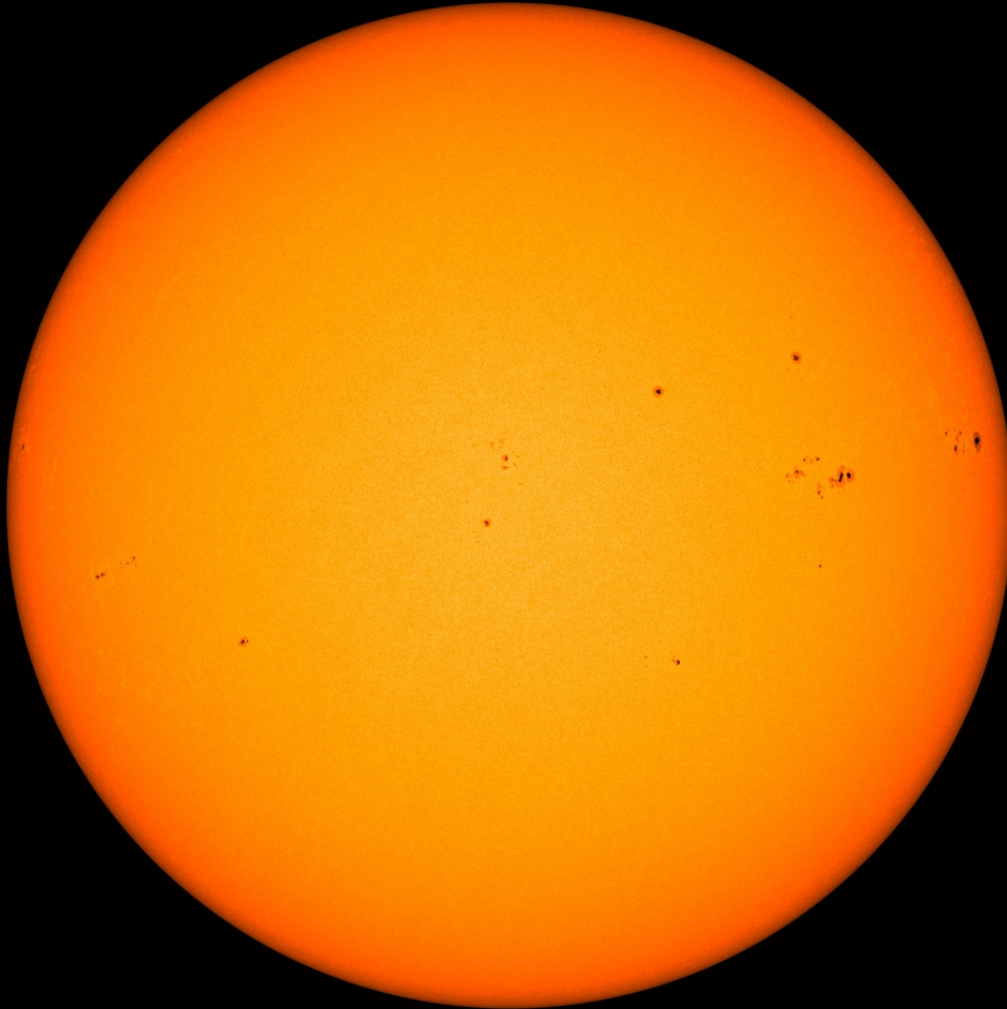
SDO/HMI Magnetogram 2025-08-12



SDO/HMI Quick-Look Magnetogram: 20250812_114500

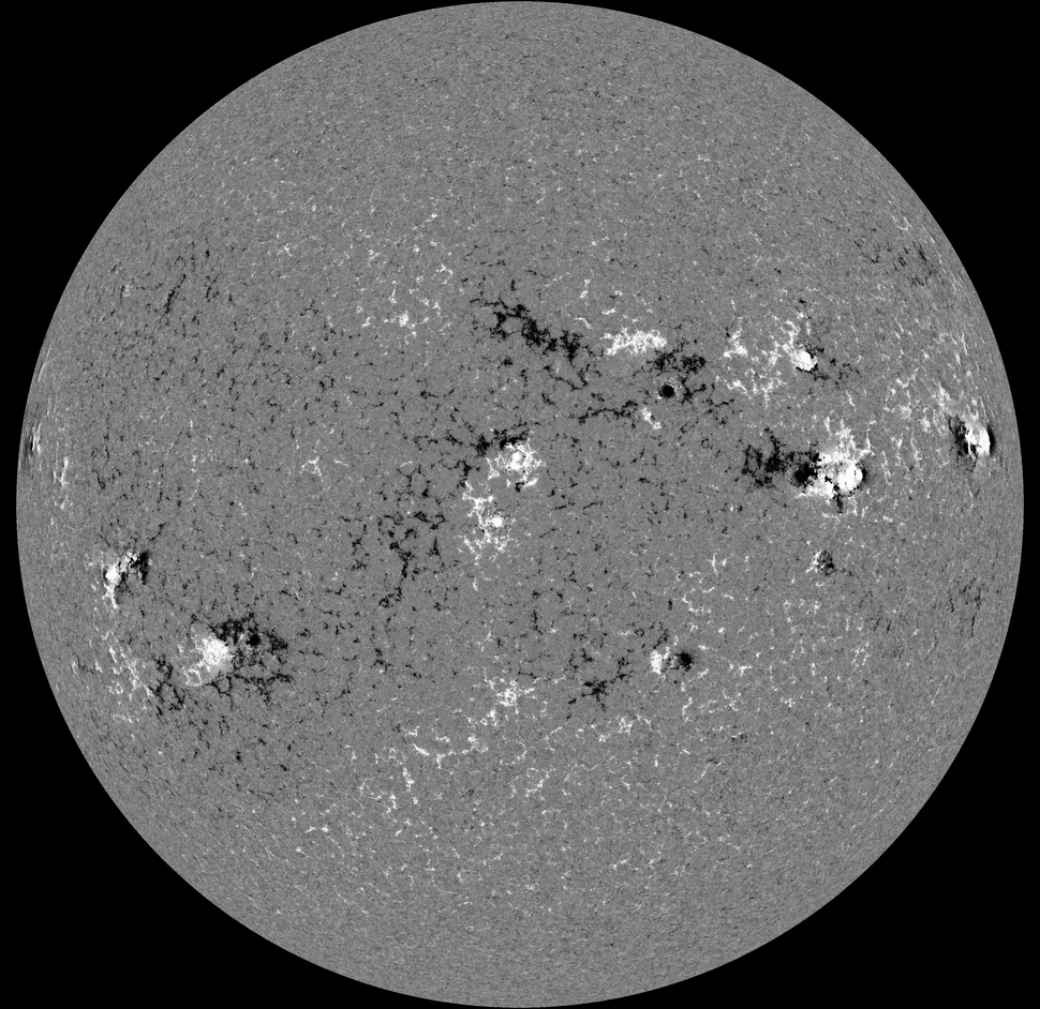
Solar active regions

SDO/HMI White Light 2025-08-13



SDO/HMI Quick-Look Continuum: 20250813_114500

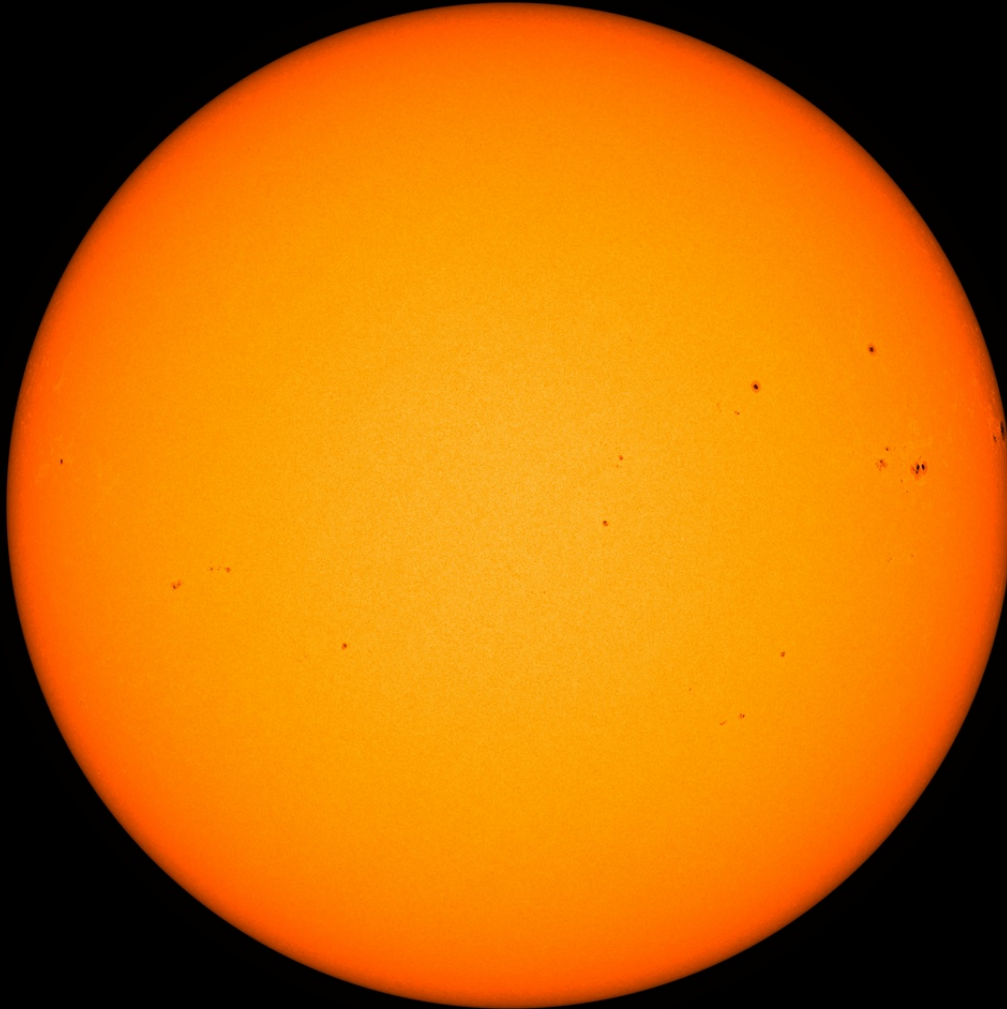
SDO/HMI Magnetogram 2025-08-13



SDO/HMI Quick-Look Magnetogram: 20250813_114500

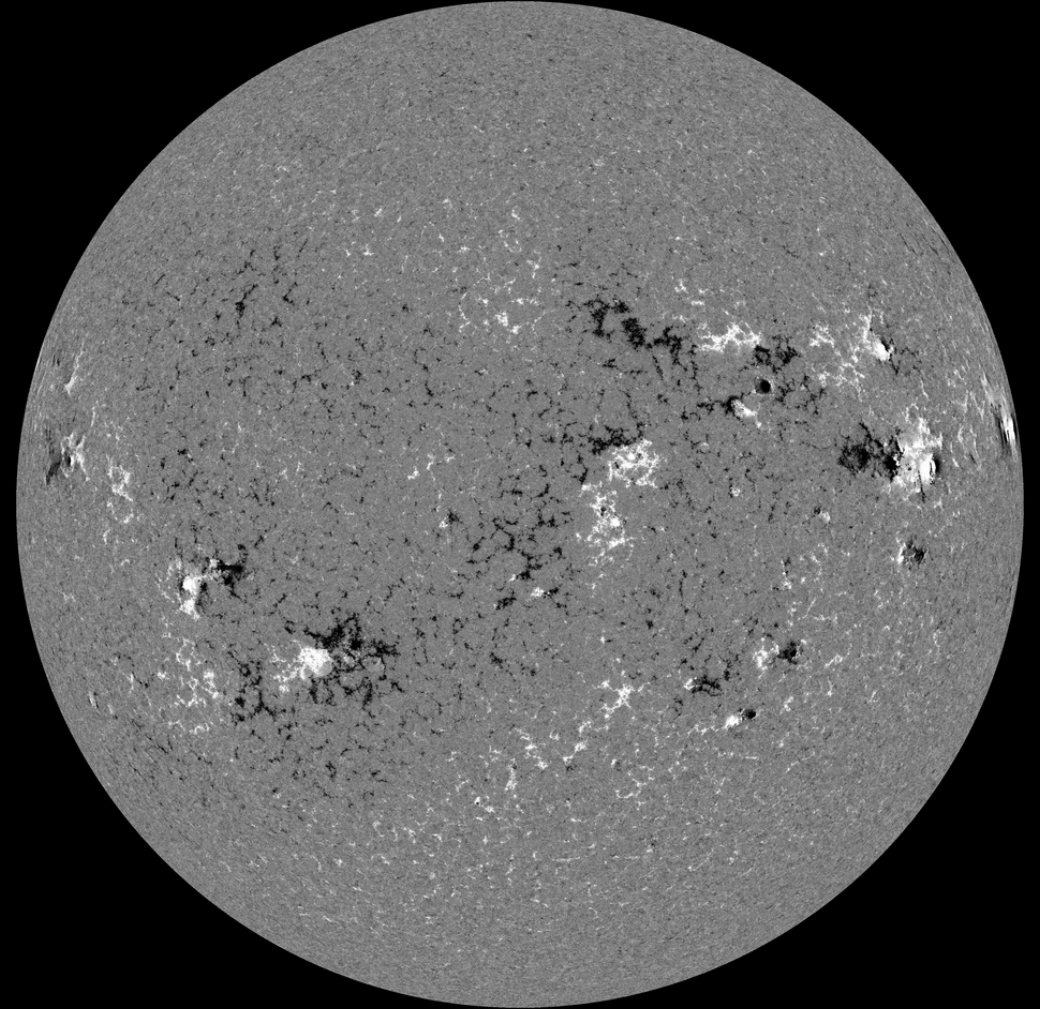
Solar active regions

SDO/HMI White Light 2025-08-14



SDO/HMI Quick-Look Continuum: 20250814_114500

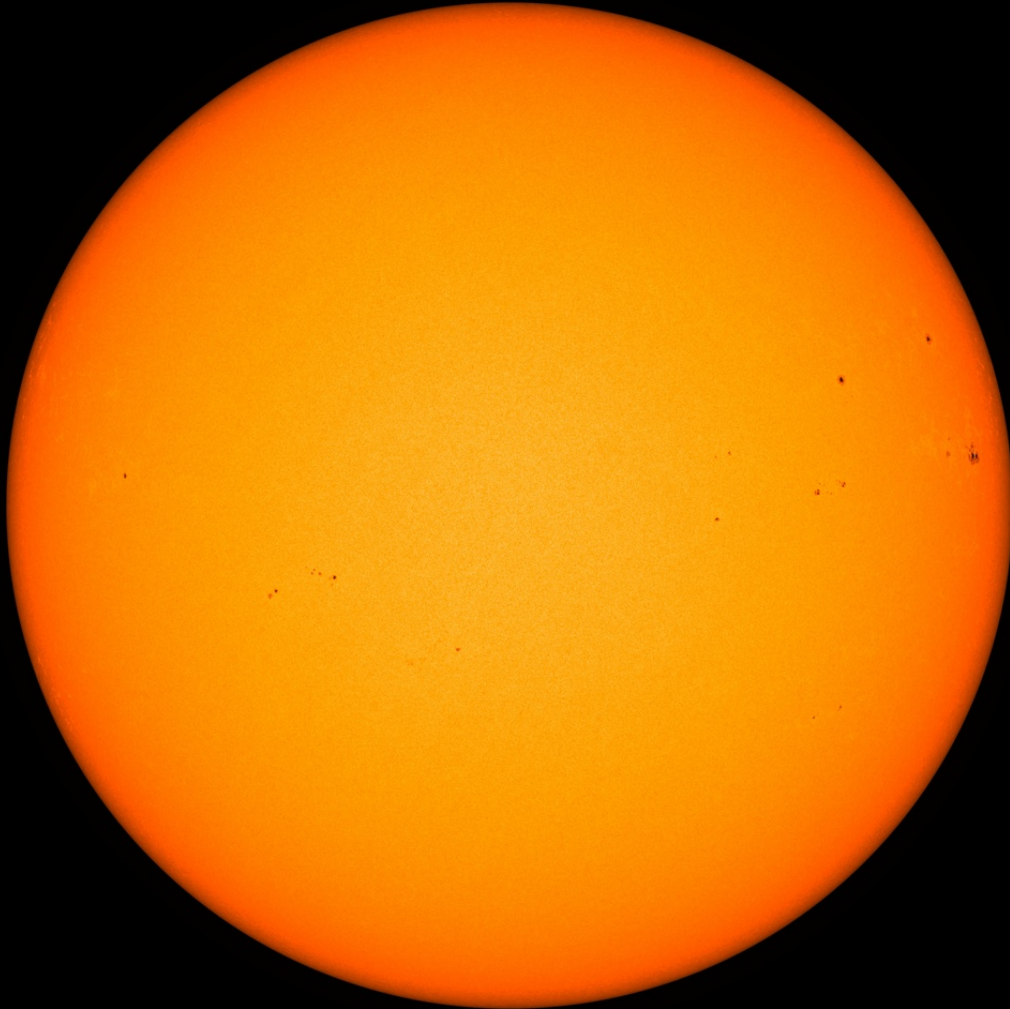
SDO/HMI Magnetogram 2025-08-14



SDO/HMI Quick-Look Magnetogram: 20250814_114500

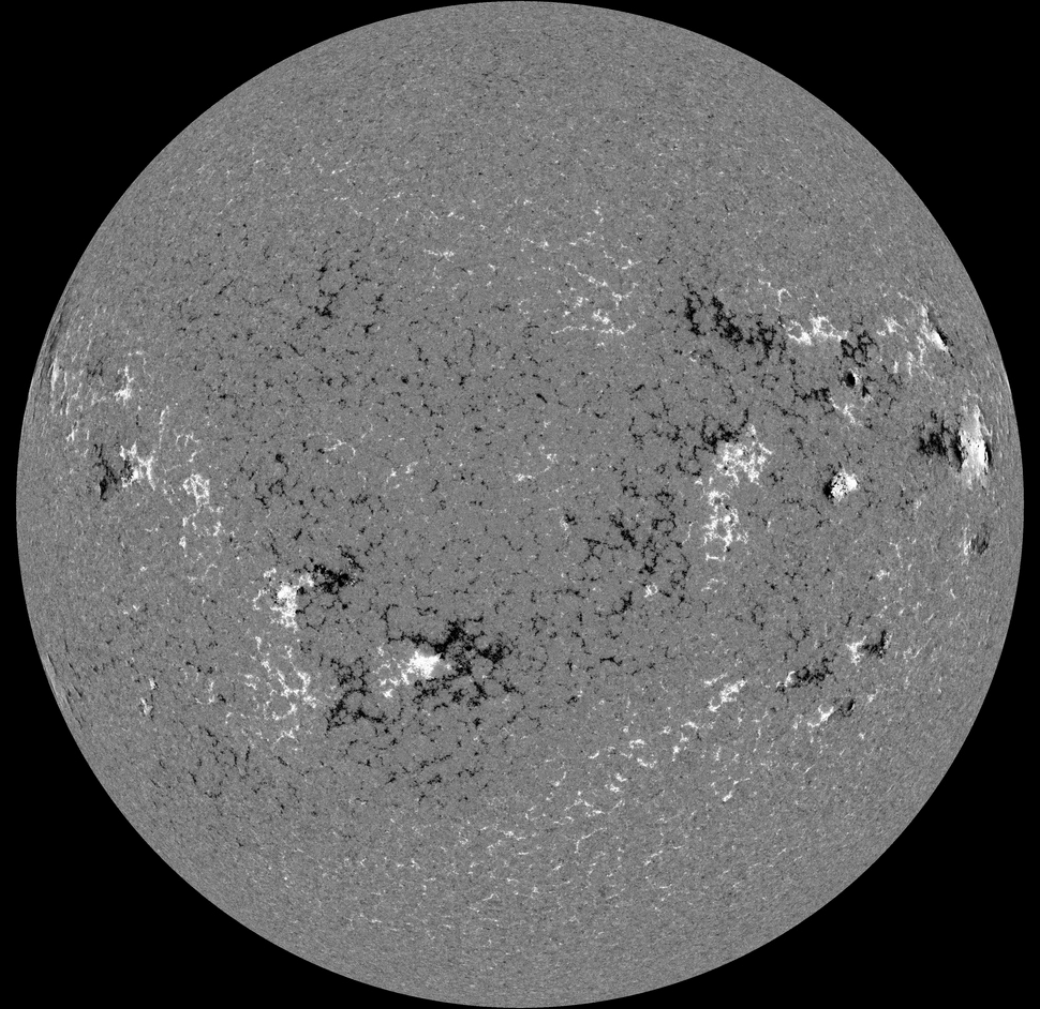
Solar active regions

SDO/HMI White Light 2025-08-15



SDO/HMI Quick-Look Continuum: 20250815_114500

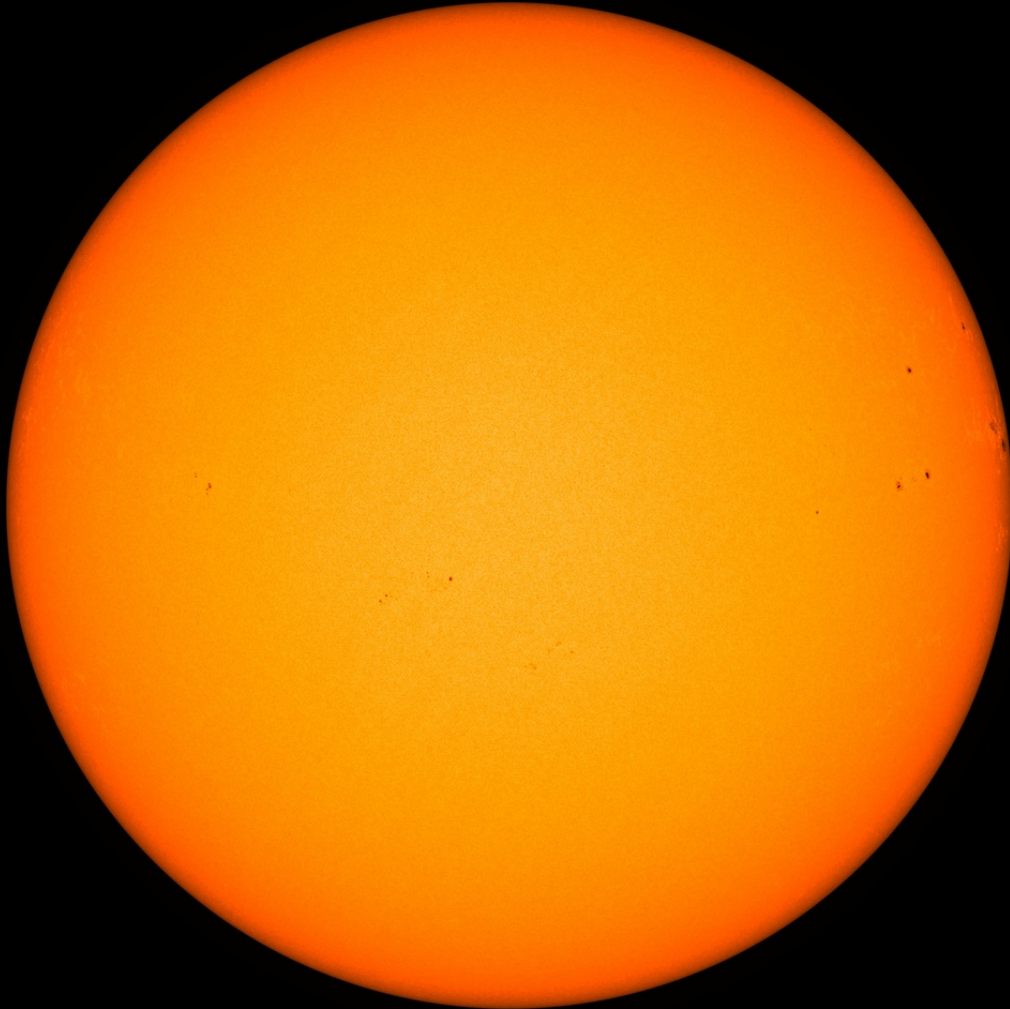
SDO/HMI Magnetogram 2025-08-15



SDO/HMI Quick-Look Magnetogram: 20250815_114500

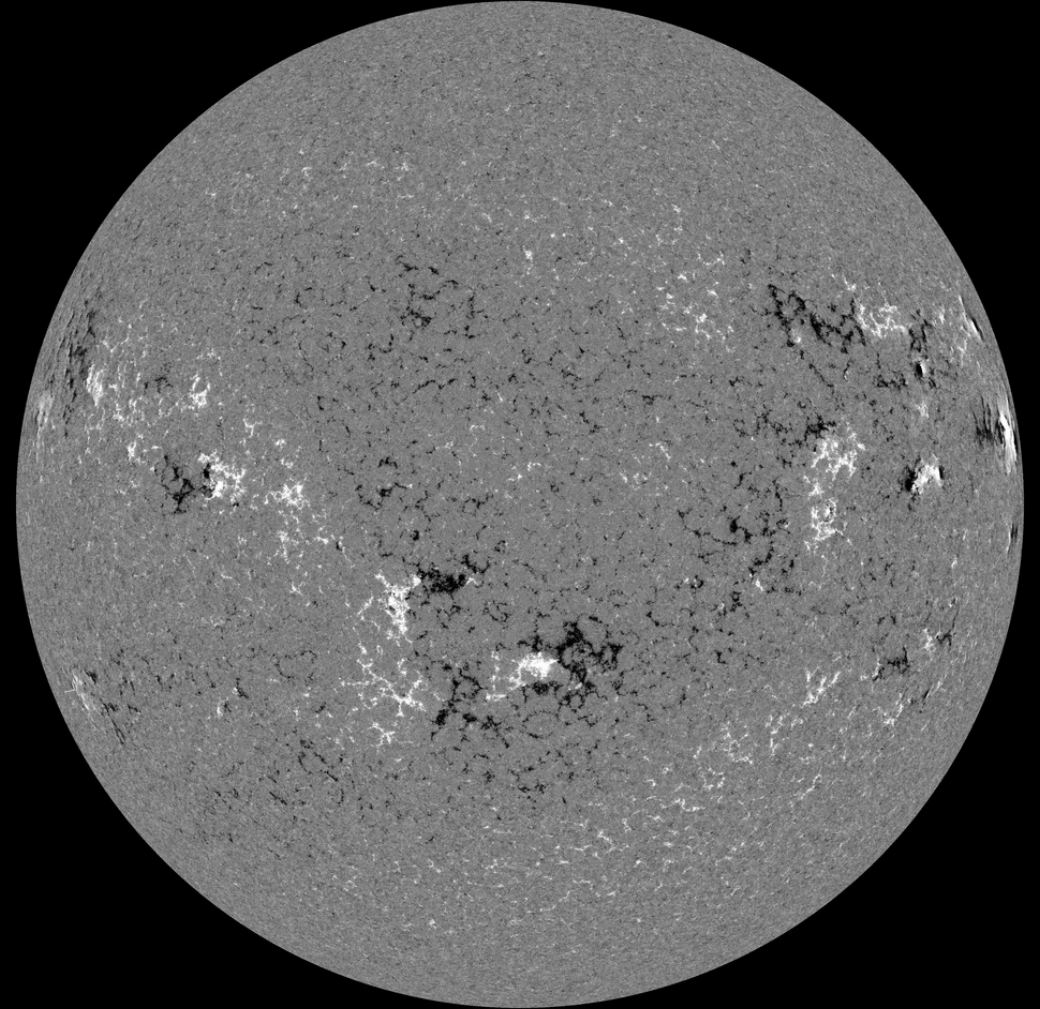
Solar active regions

SDO/HMI White Light 2025-08-16



SDO/HMI Quick-Look Continuum: 20250816_114500

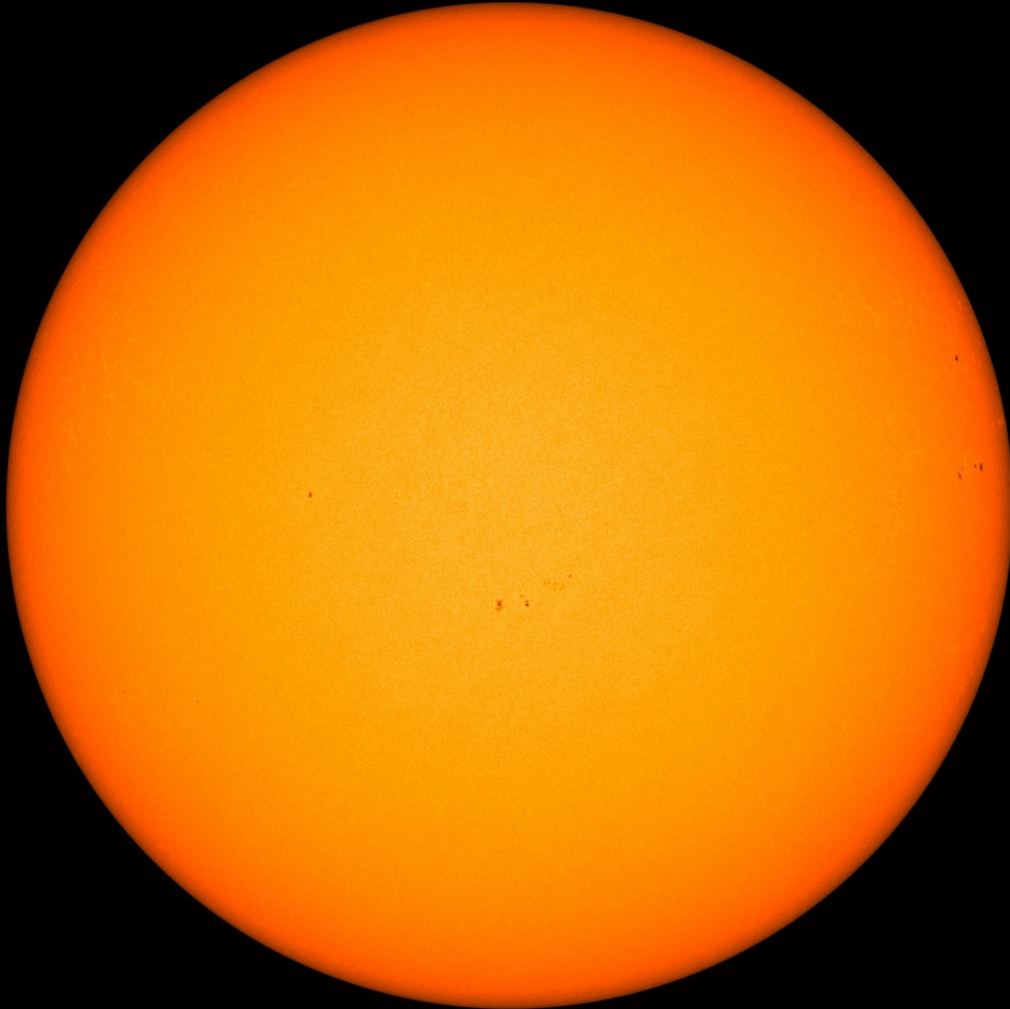
SDO/HMI Magnetogram 2025-08-16



SDO/HMI Quick-Look Magnetogram: 20250816_114500

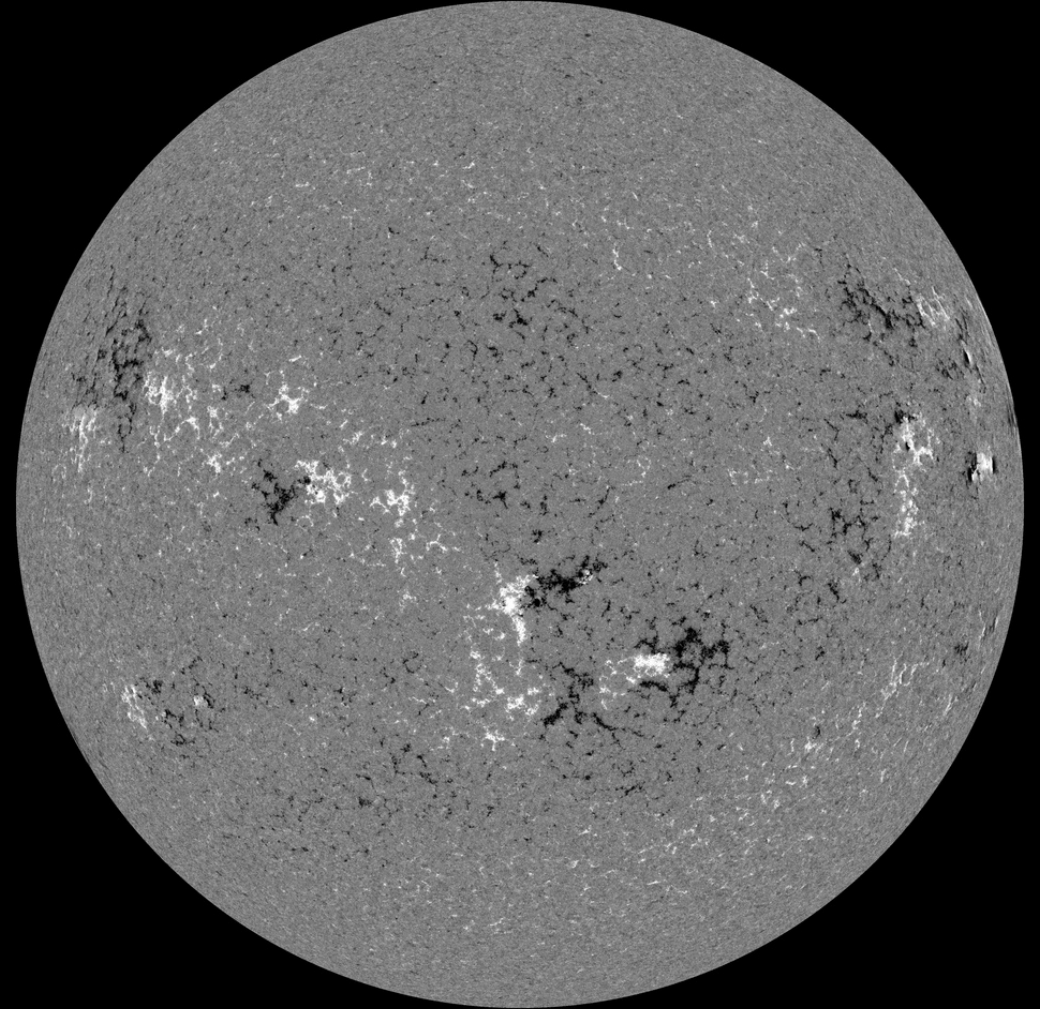
Solar active regions

SDO/HMI White Light 2025-08-17



SDO/HMI Quick-Look Continuum: 20250817_114500

SDO/HMI Magnetogram 2025-08-17

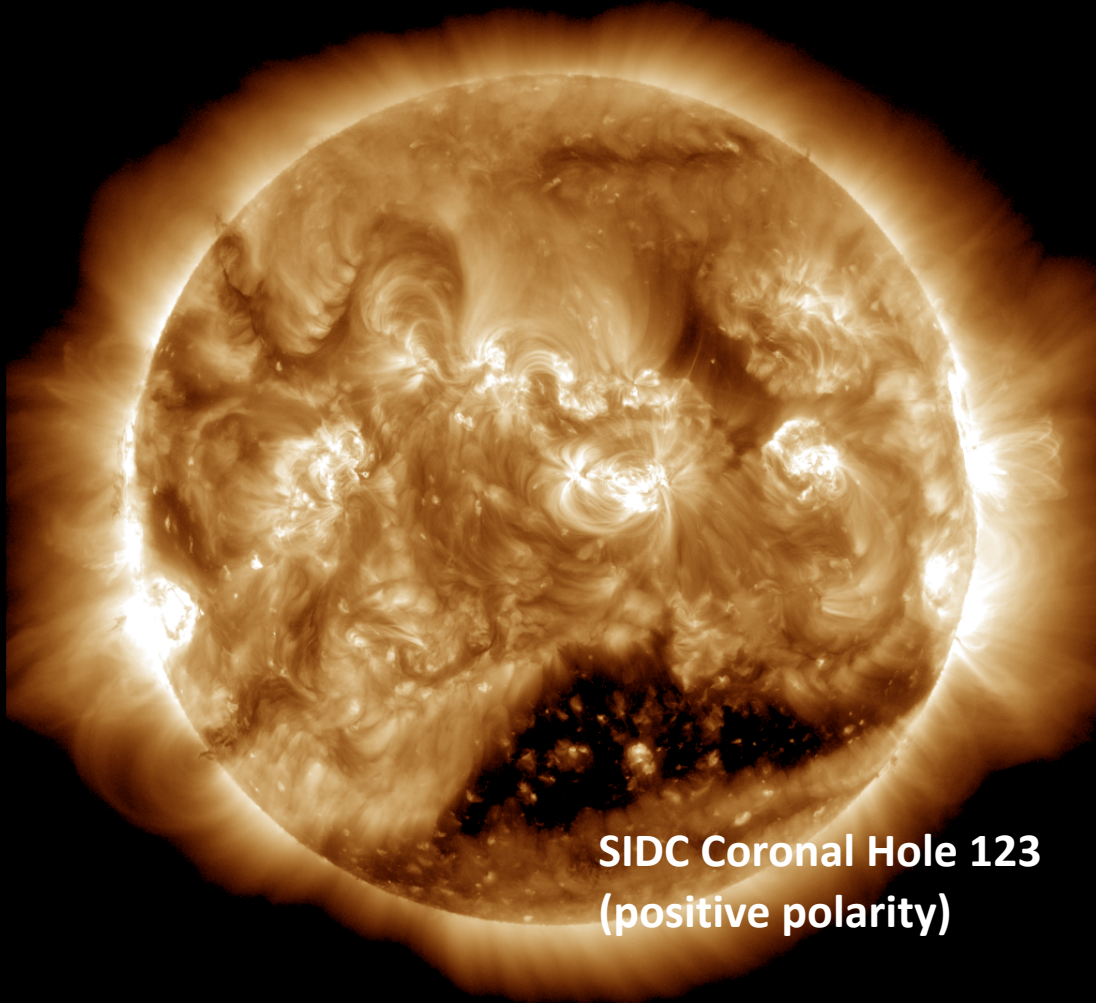


SDO/HMI Quick-Look Magnetogram: 20250817_114500

Coronal holes

SDO/AIA 19.3 nm 2025-08-11

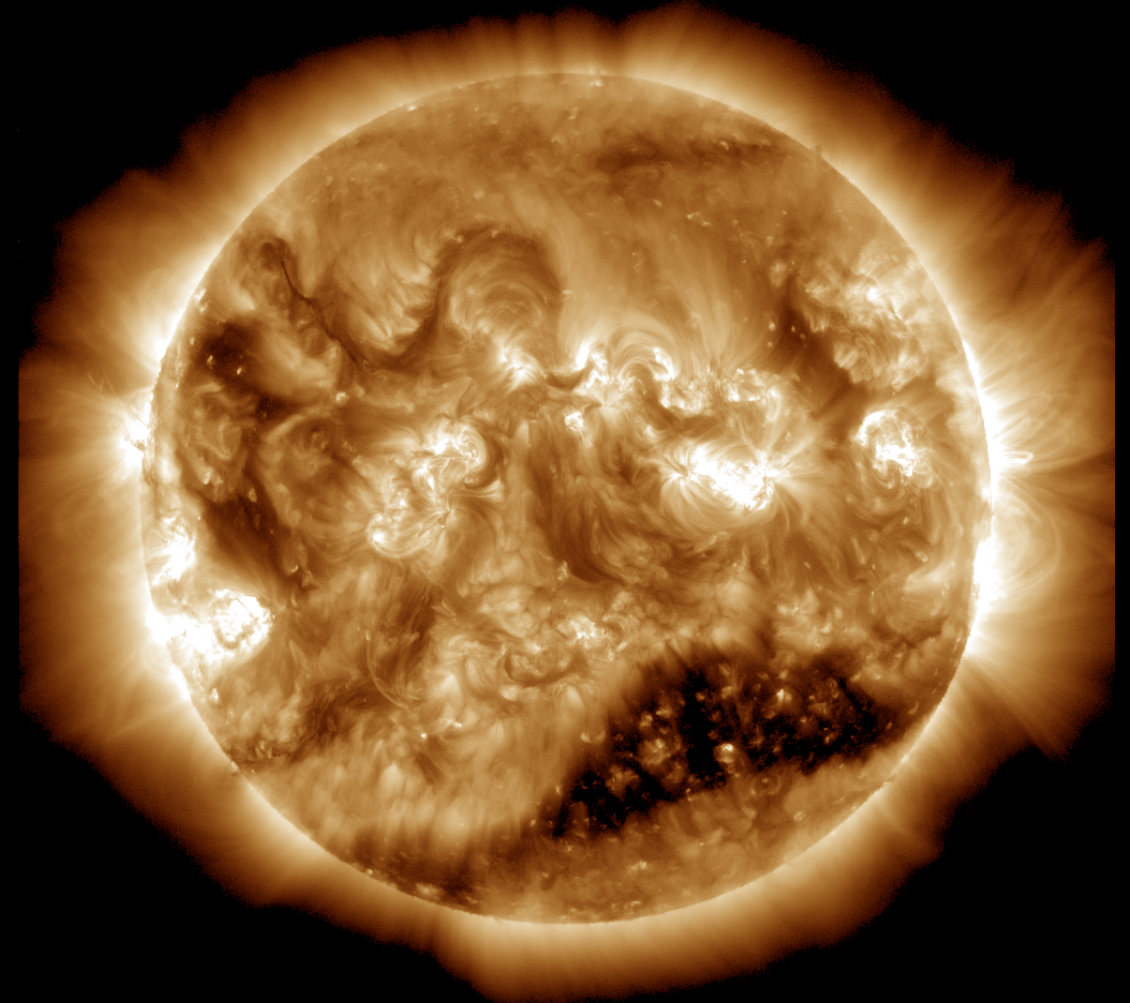
SDO/AIA AIA 193Å 2025-08-11T12:00:05.843



SIDC Coronal Hole 123
(positive polarity)

SDO/AIA 19.3 nm 2025-08-12

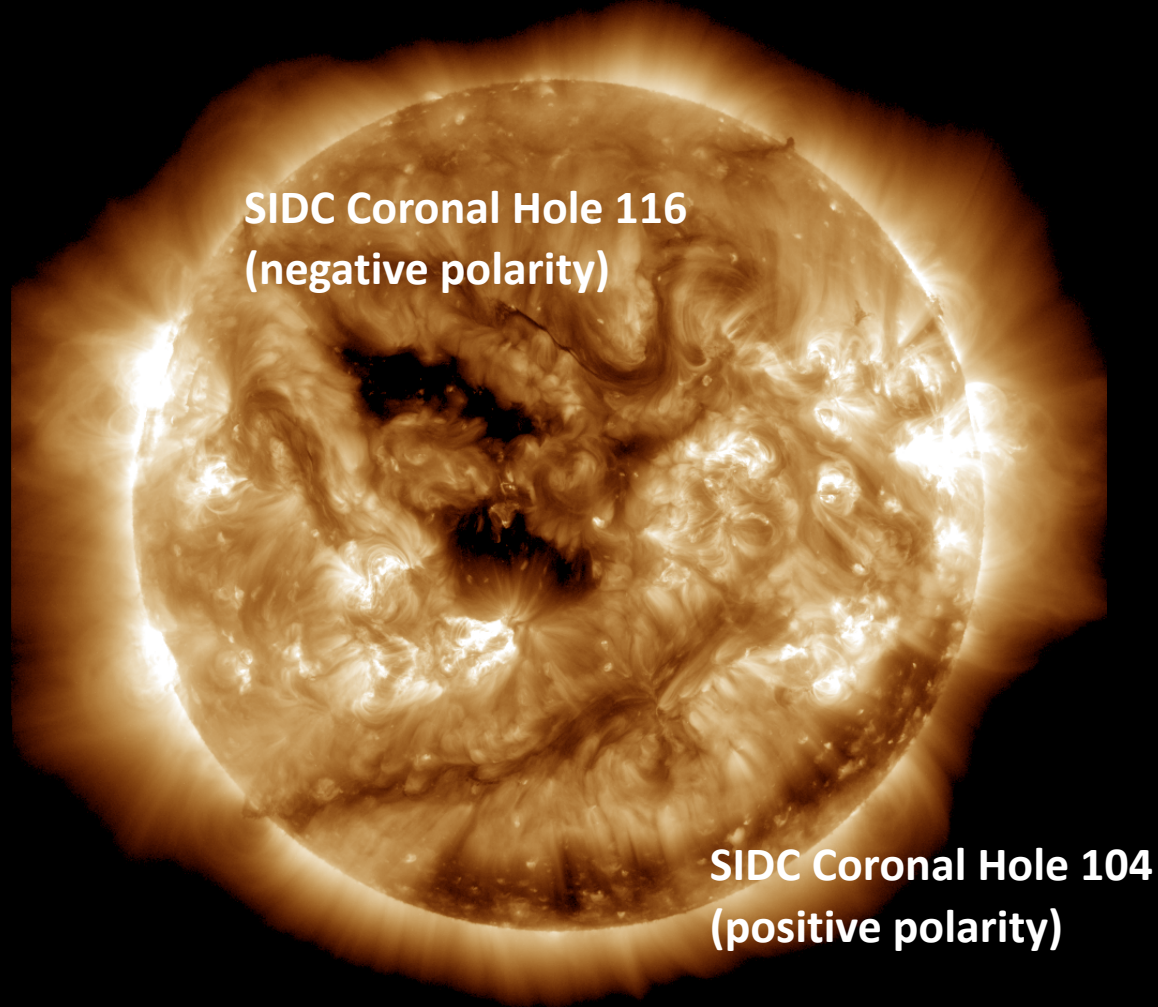
SDO/AIA AIA 193Å 2025-08-12T12:00:06.869



Coronal holes

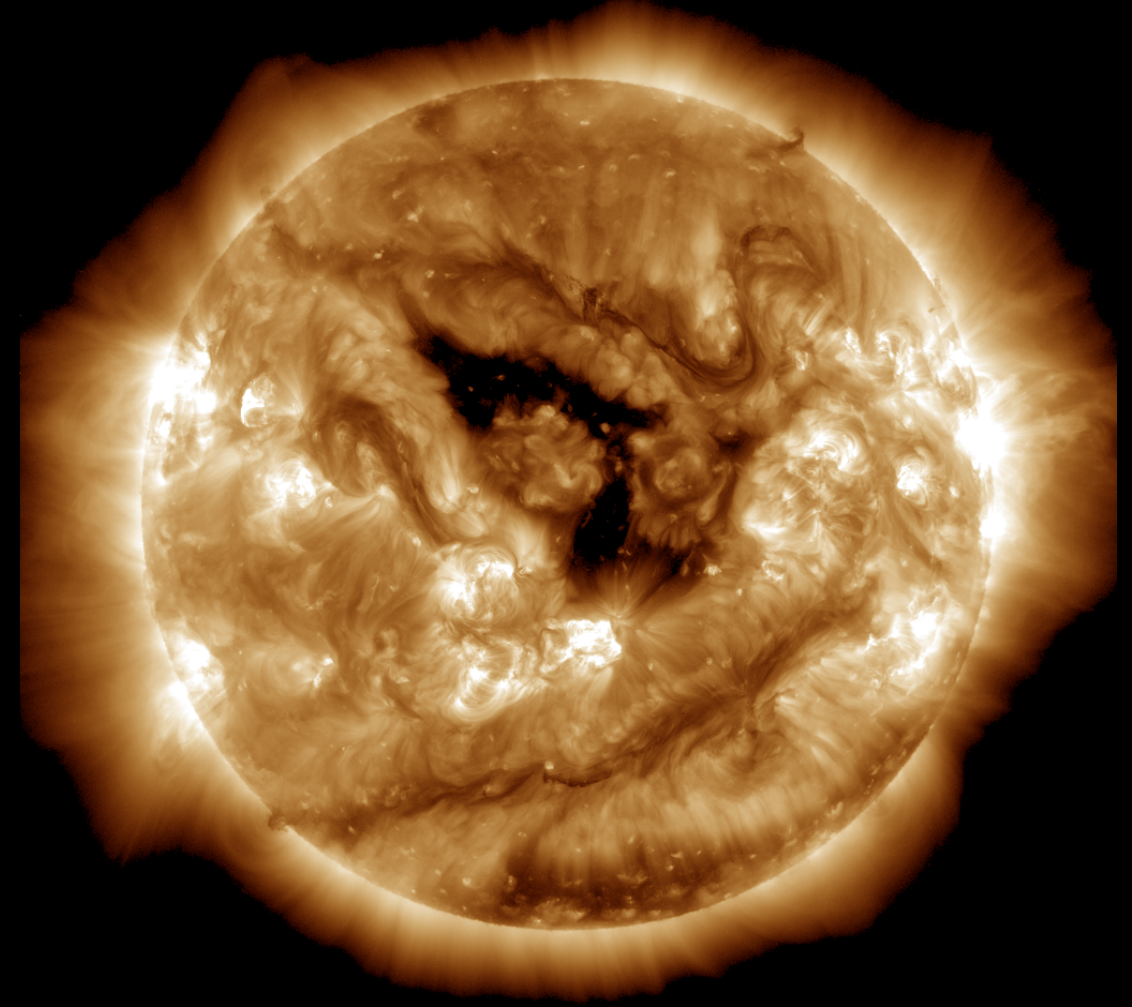
SDO/AIA 19.3 nm 2025-08-15

SDO/AIA AIA 193Å 2025-08-15T12:00:05.843



SDO/AIA 19.3 nm 2025-08-16

SDO/AIA AIA 193Å 2025-08-16T12:00:05.843



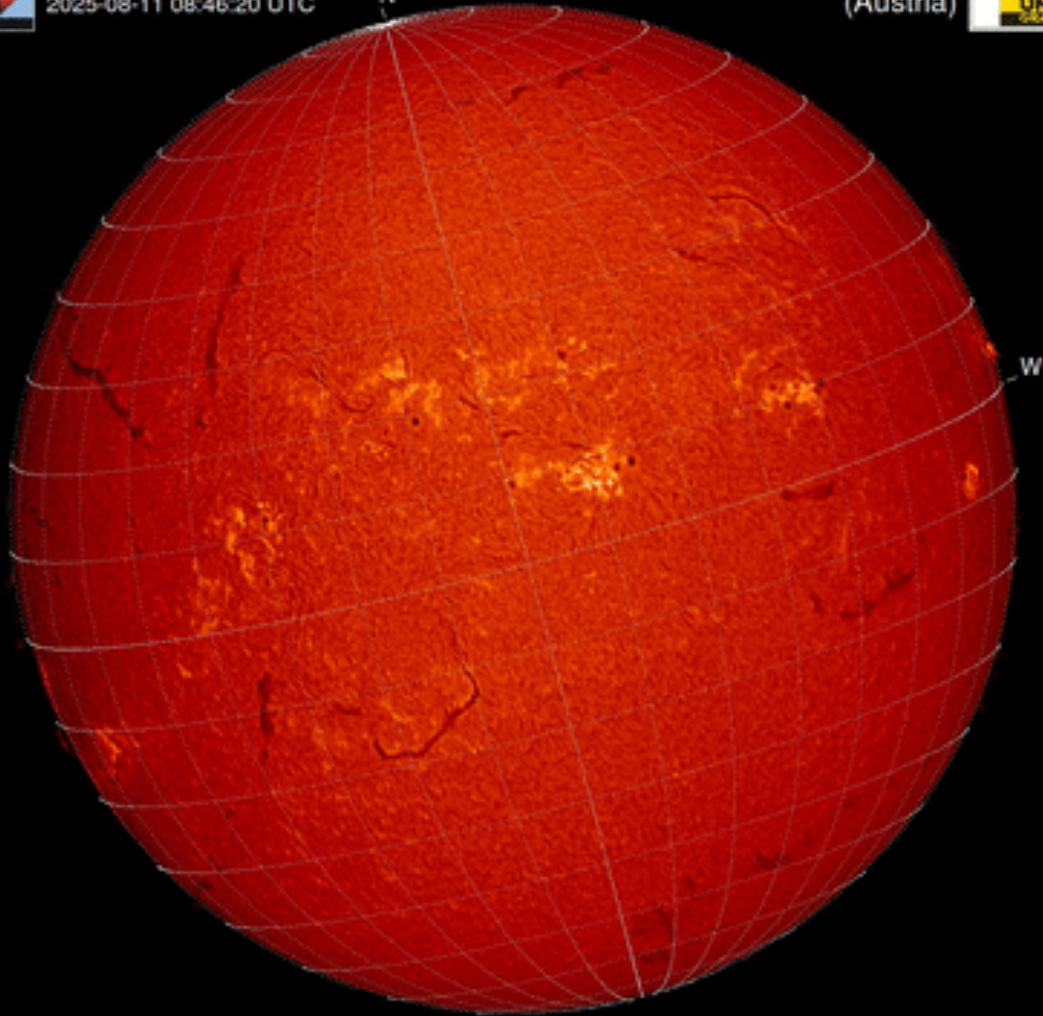
Filaments & Filament eruptions

H-alpha 2025-08-11



Kanzelhöhe Observatory
2025-08-11 08:46:20 UTC

University of Graz
(Austria)

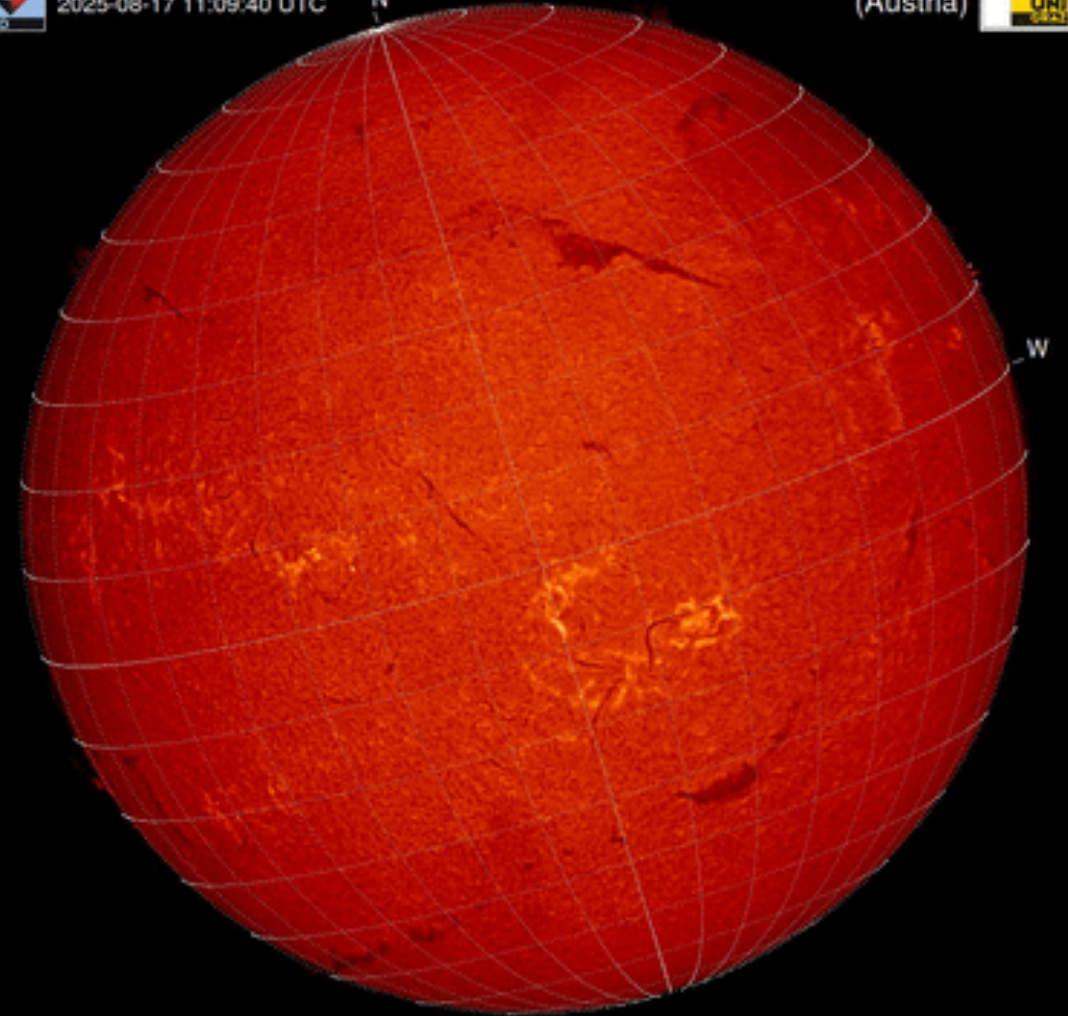


H-alpha 2025-08-17

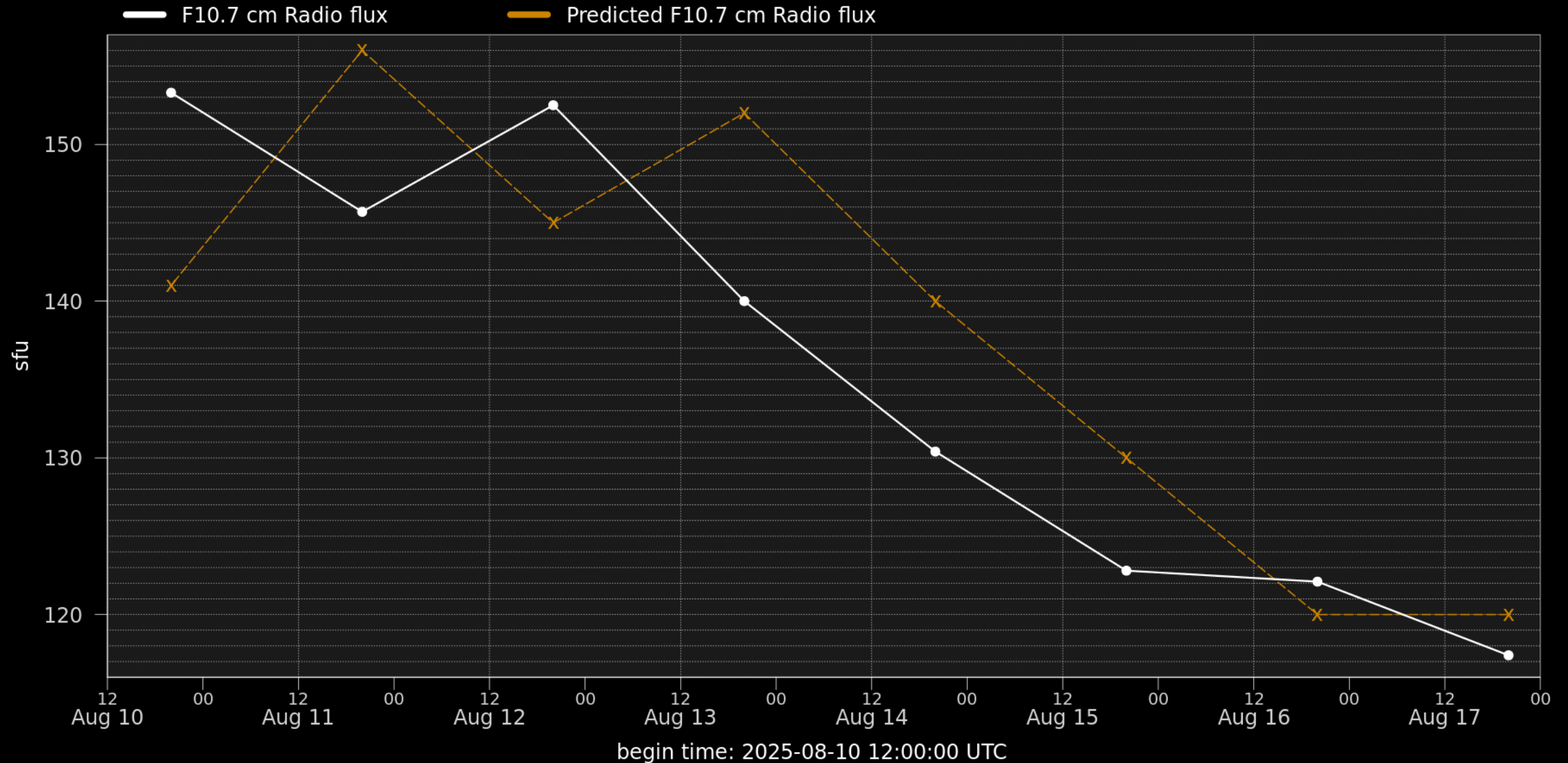


Kanzelhöhe Observatory
2025-08-17 11:09:40 UTC

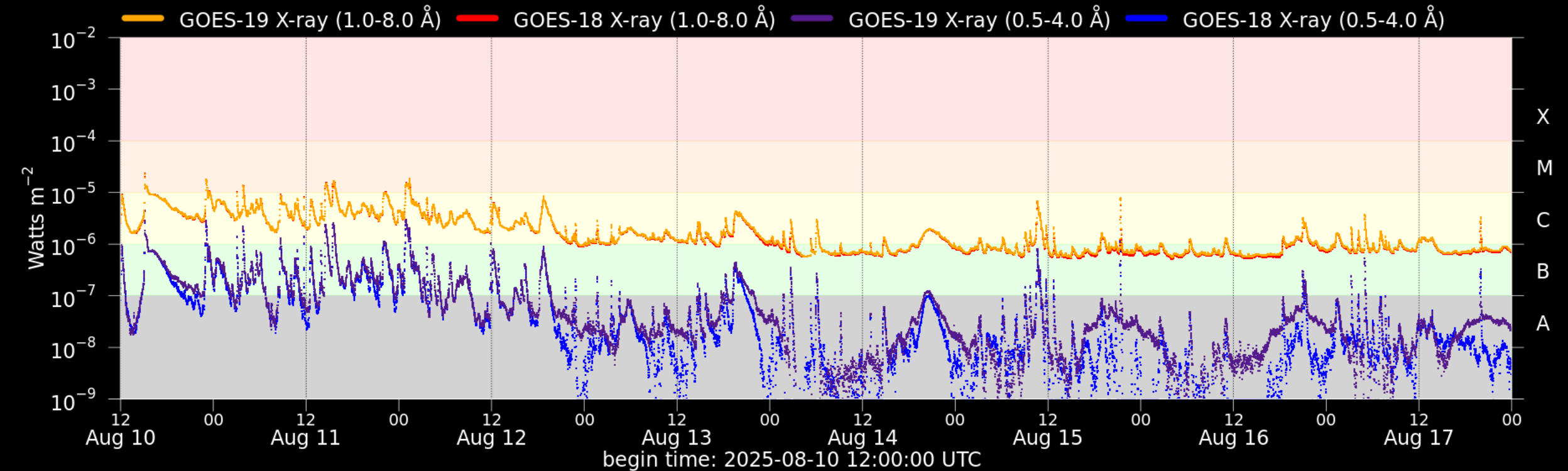
University of Graz
(Austria)



Solar F10.7cm radio flux



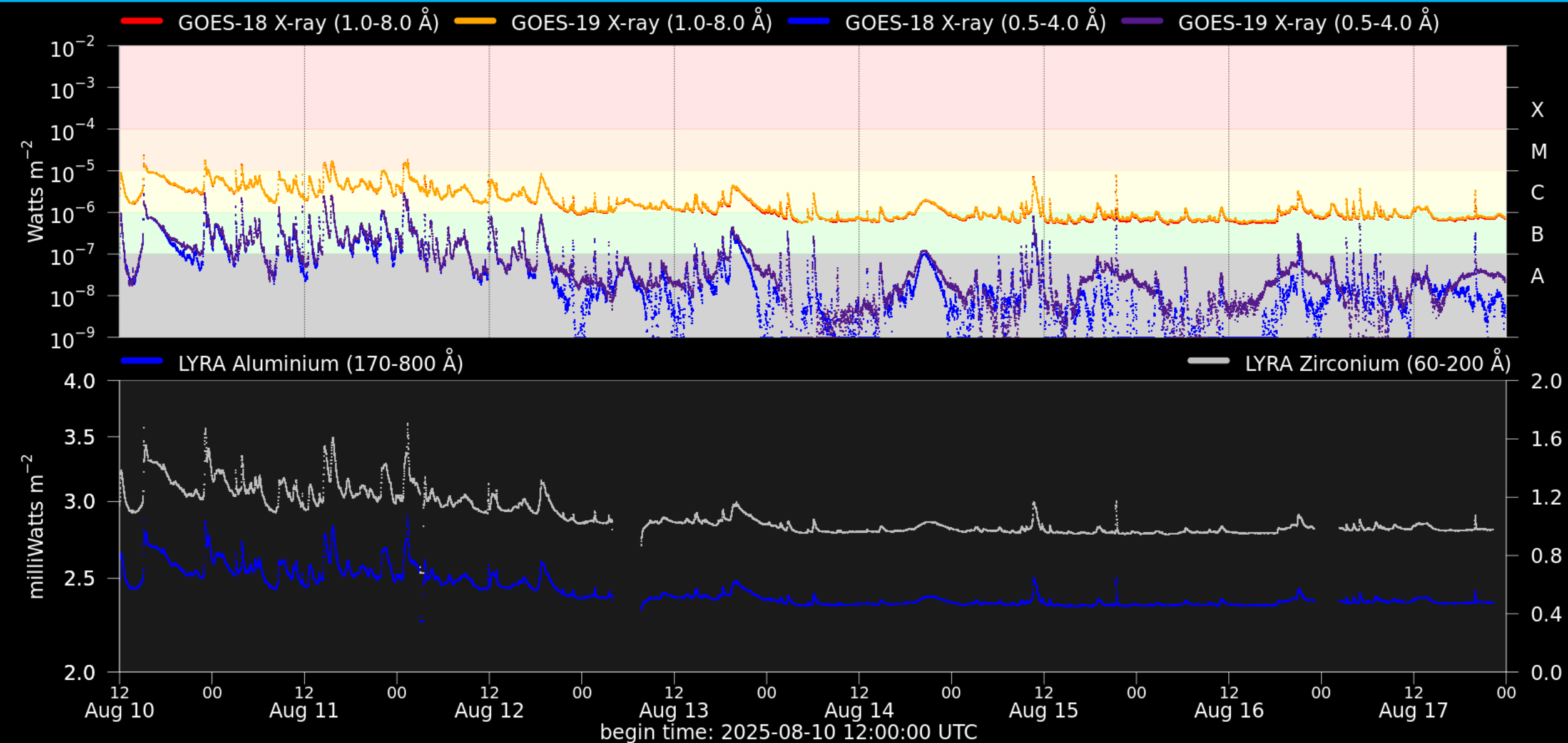
Flaring activity



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

Issue date	2025-08-10	2025-08-11	2025-08-12	2025-08-13	2025-08-14	2025-08-15	2025-08-16	2025-08-17
Probability (%)	99 79 01	99 74 01	99 51 05	99 44 01	98 21 01	96 22 01	91 01 01	91 02 01
Observed (#)	07 04 00	06 03 00	08 00 00	08 00 00	06 00 00	04 00 00	07 00 00	01 00 00

Solar X-Ray and UV flux



Coronal Mass Ejections

Very quiet



Solar Wind and

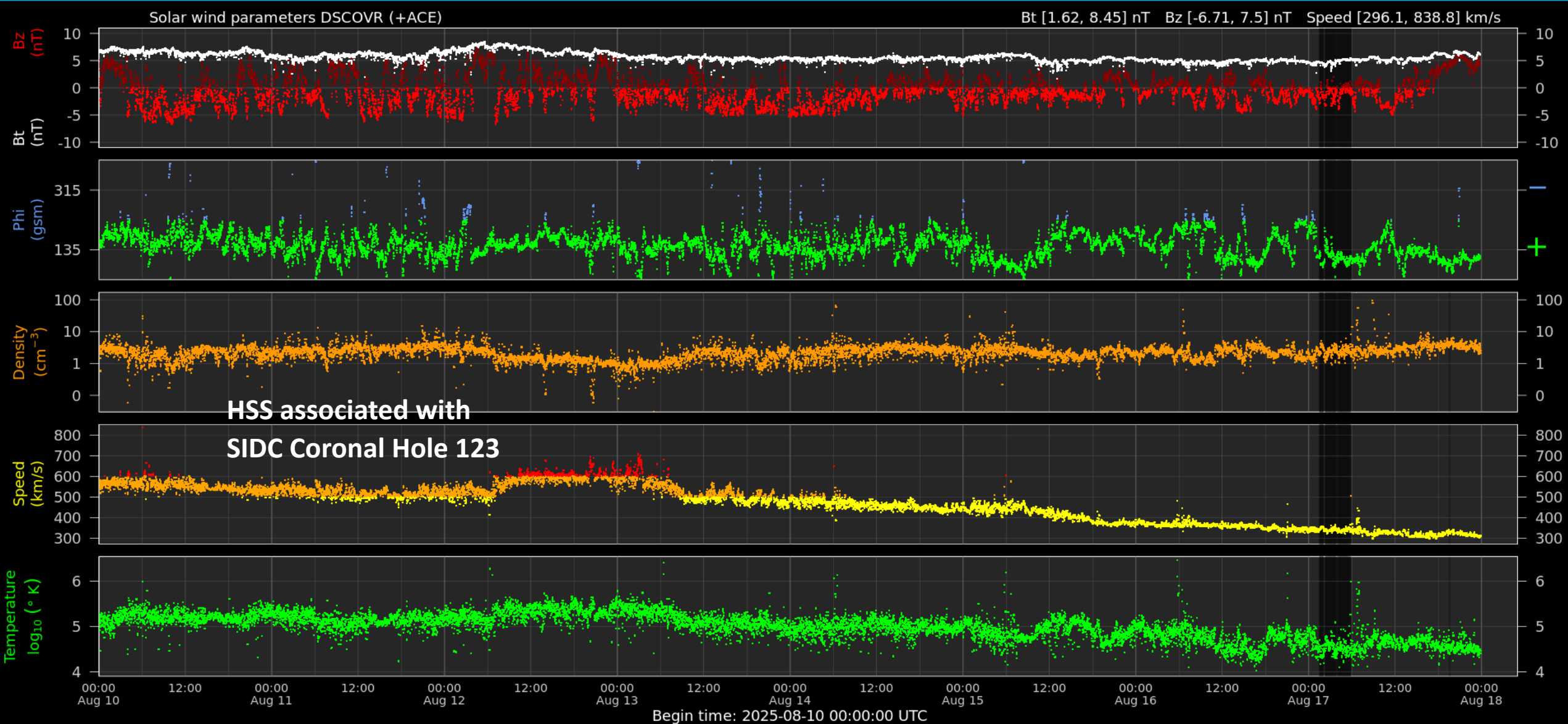
Geomagnetic Activity



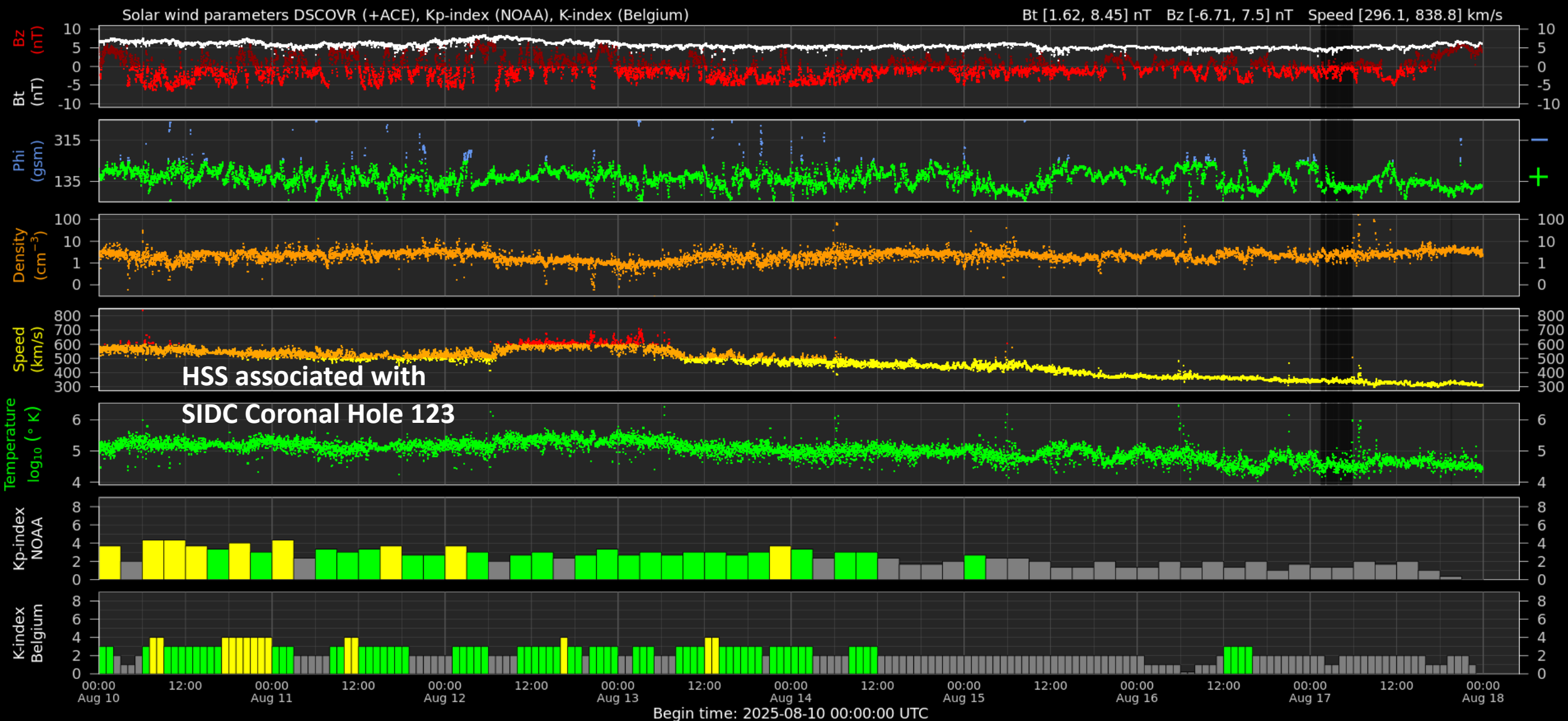
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Solar wind parameters



Solar wind parameters & K-indices



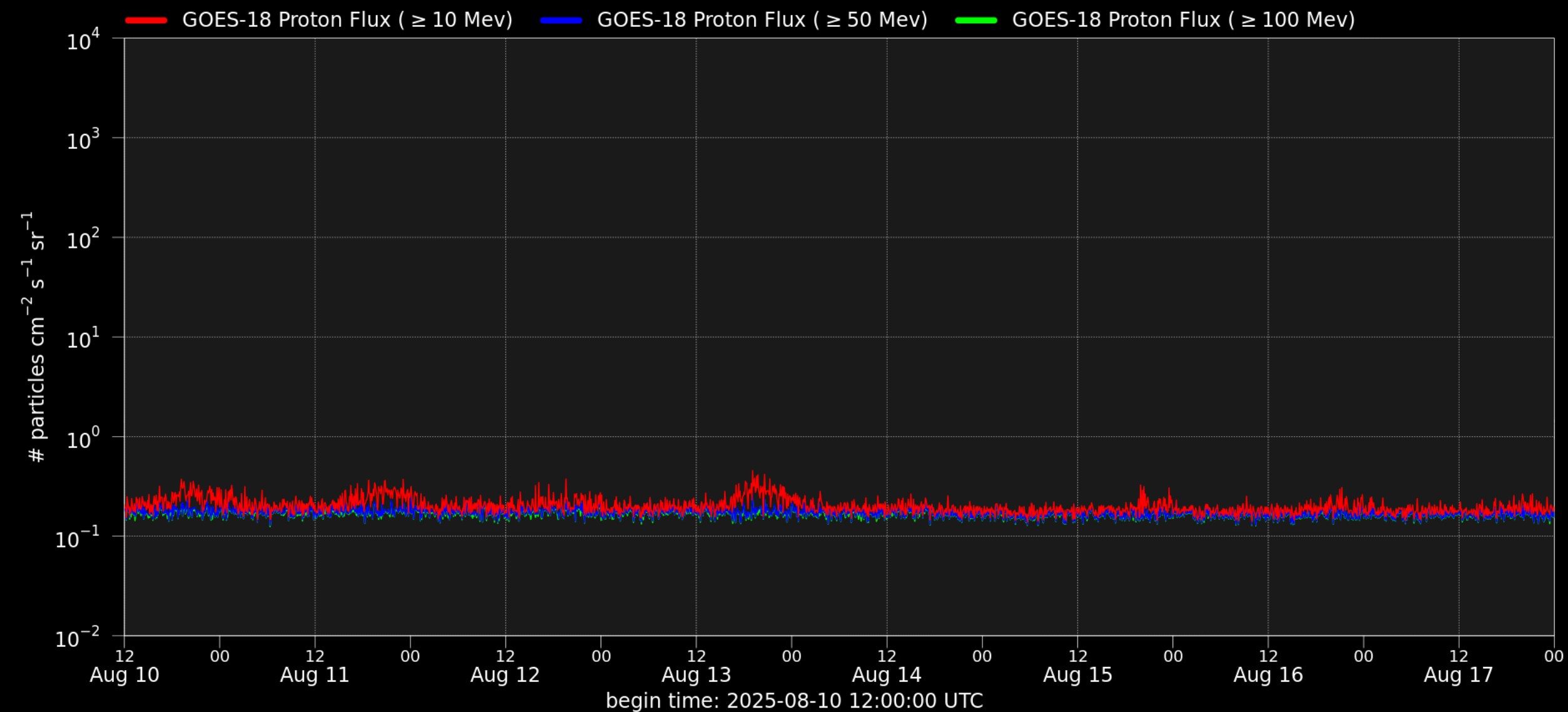
Energetic Particles



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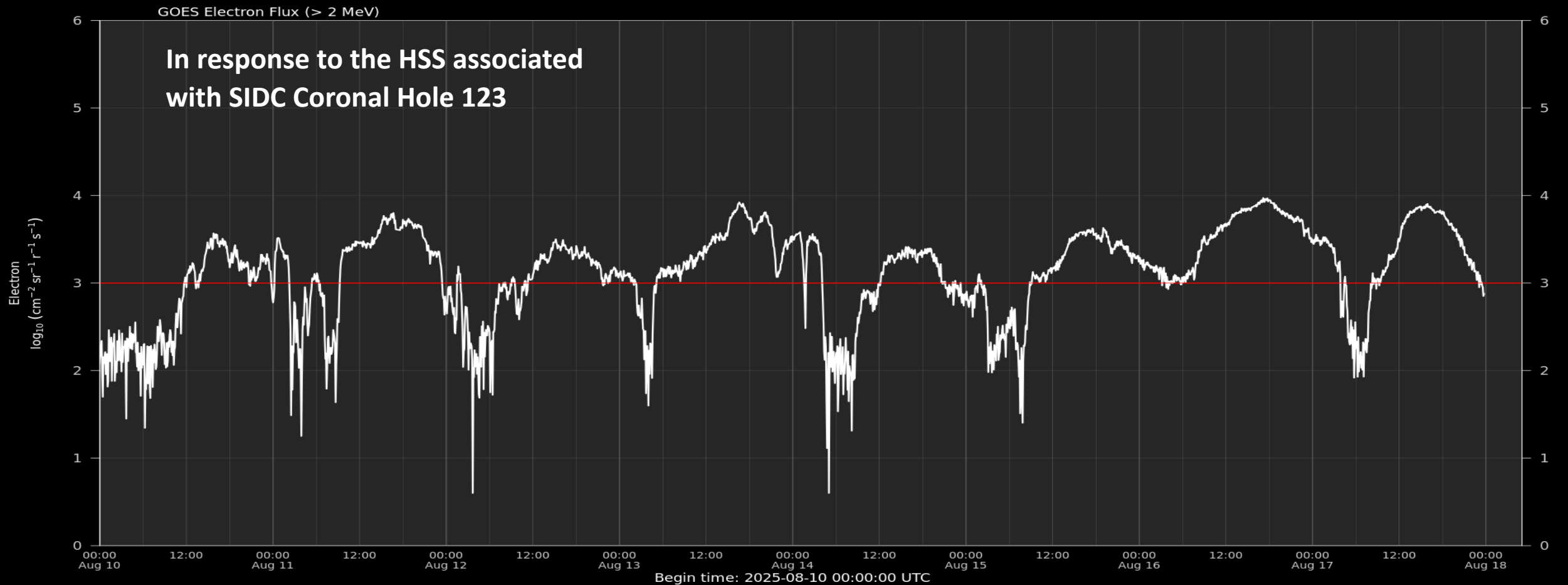
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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



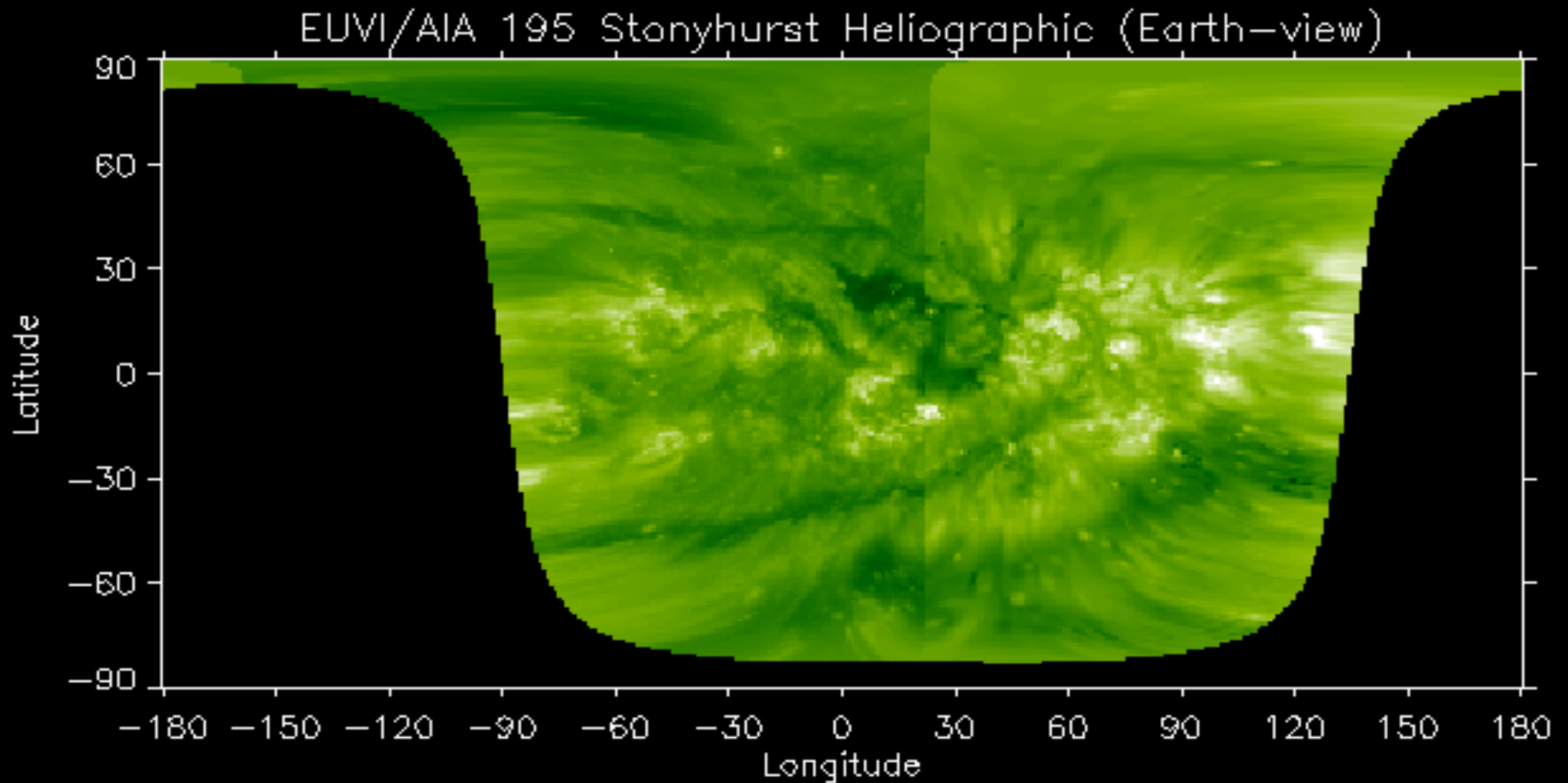
Outlook



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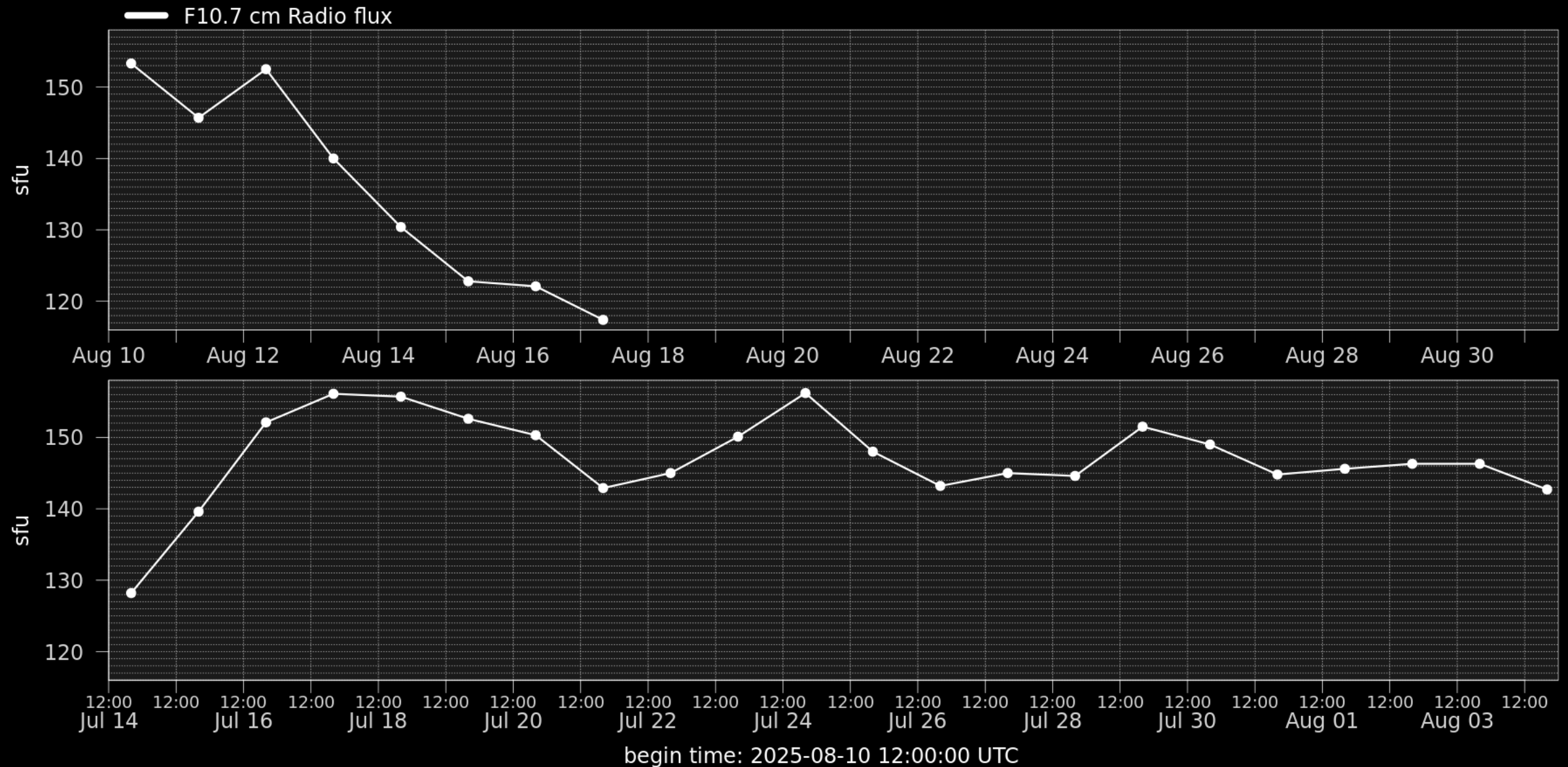
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Outlook: Solar activity

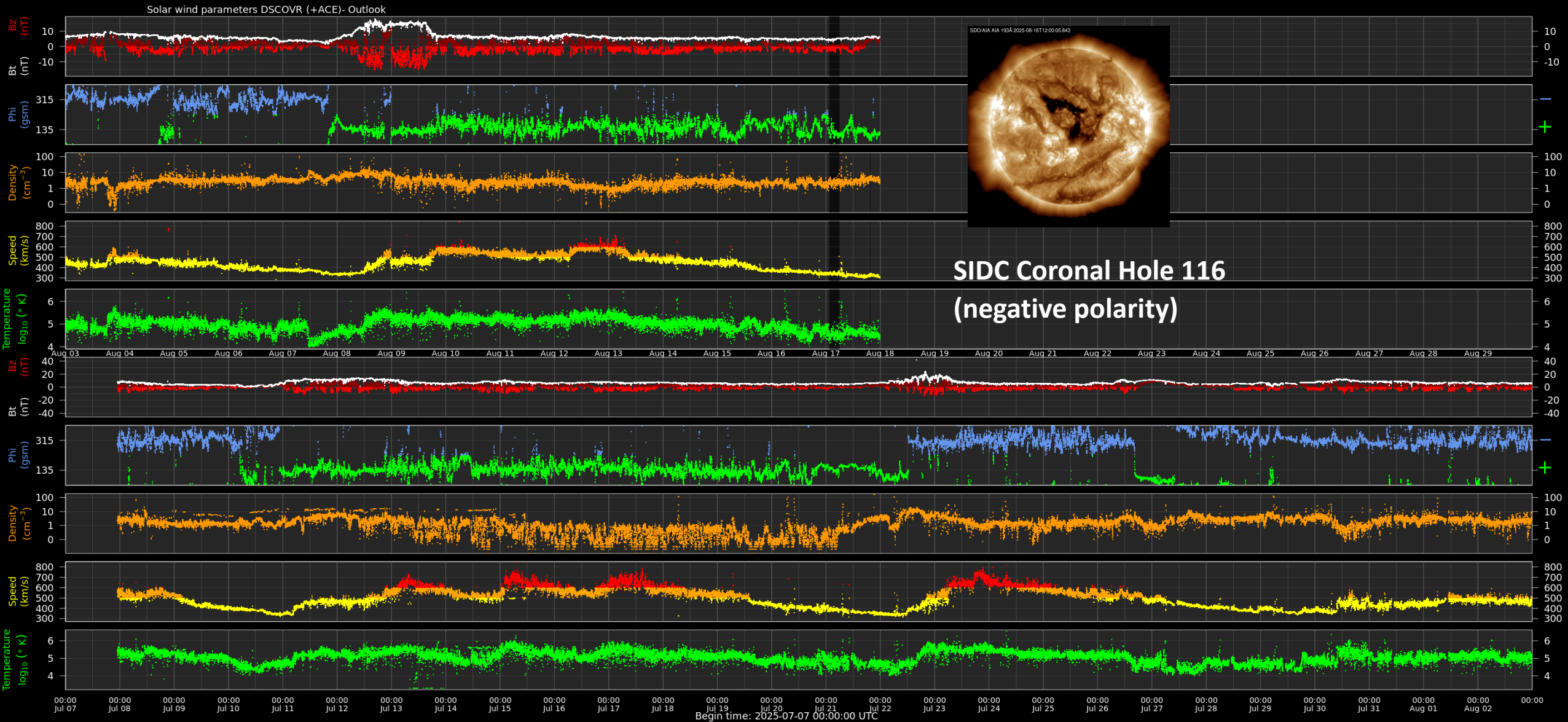


Observation date: 2025/08/17 23:05:00

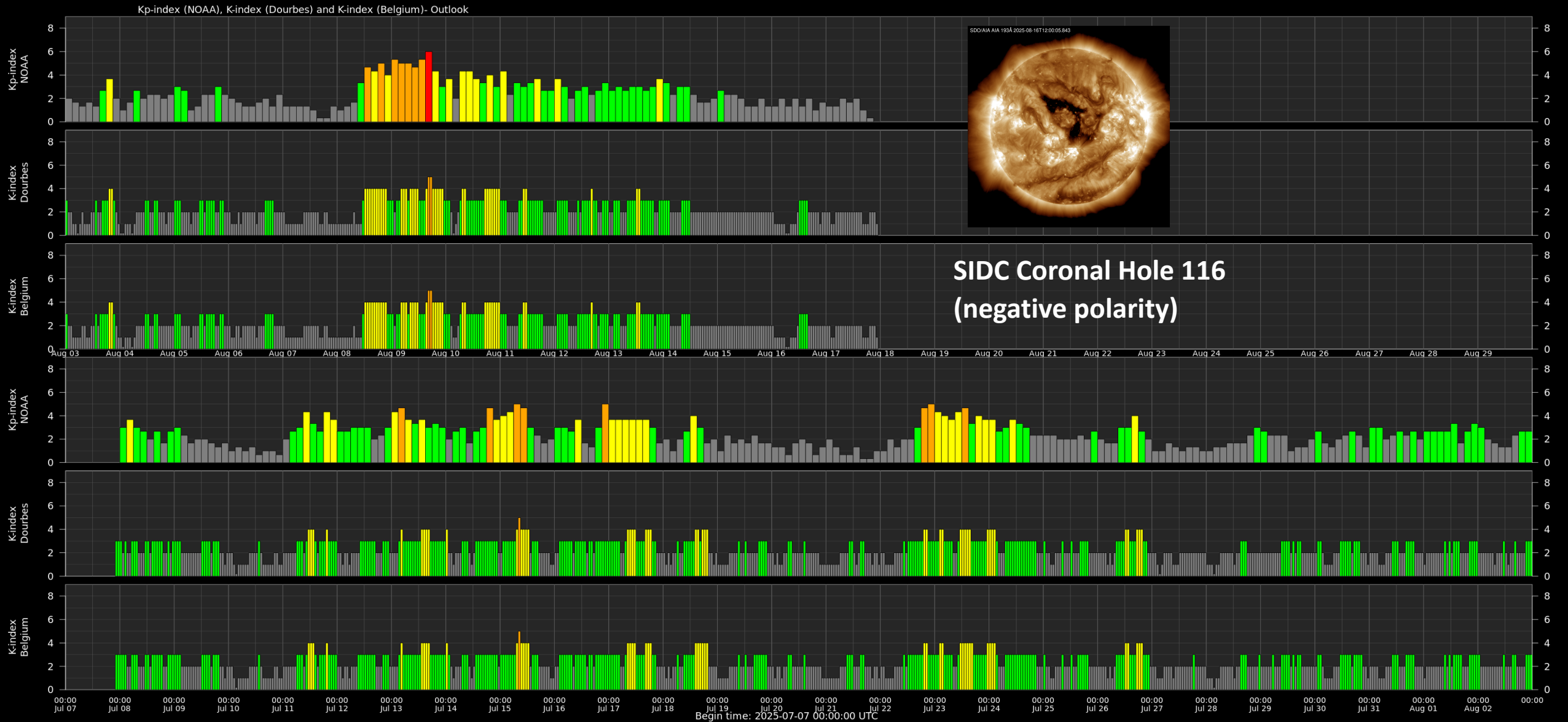
Outlook: Solar F10.7cm radio flux



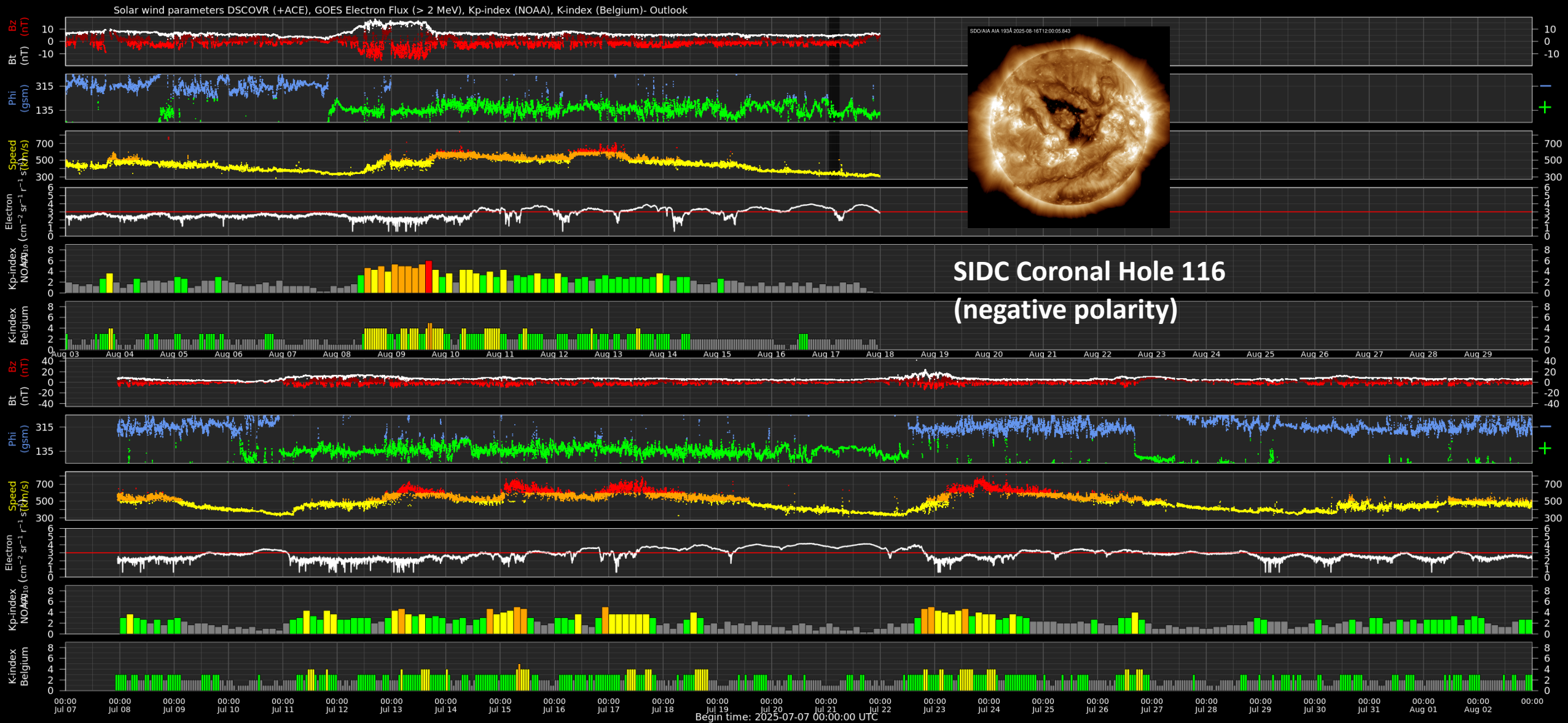
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS



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Pegasus related events

Anything notable that is Pegasus related?

SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at www.sidc.be



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