

SIDC Space Weather Briefing

15 August 2021 - 22 August 2021

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& the SIDC forecaster team



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Data analysis Centre
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Summary Report

Solar activity from 2021-08-15 12:00 to 2021-08-22 23:59

Active regions	ARs 2853, 2855, 2856, 2857, 2858, 2859
Flares	# C-class flares: 6 # M-class flares: 0 # X-class flares: 0
Coronal Holes	Southern extension of the northern polar coronal hole

Proton flux	Below threshold
Electron flux	Below threshold

Solar wind and geomagnetic conditions

ICME	None
SW Conditions	B : 0.36 - 8.05 nT // Bz: -7.79 nT to 6.62 nT // Speed: 290.8 - 518.4km/s
K-indices	max K-index (Dourbes): 3 max Kp-index (NOAA): 3

All Quiet Alert: Turned off on 20 August

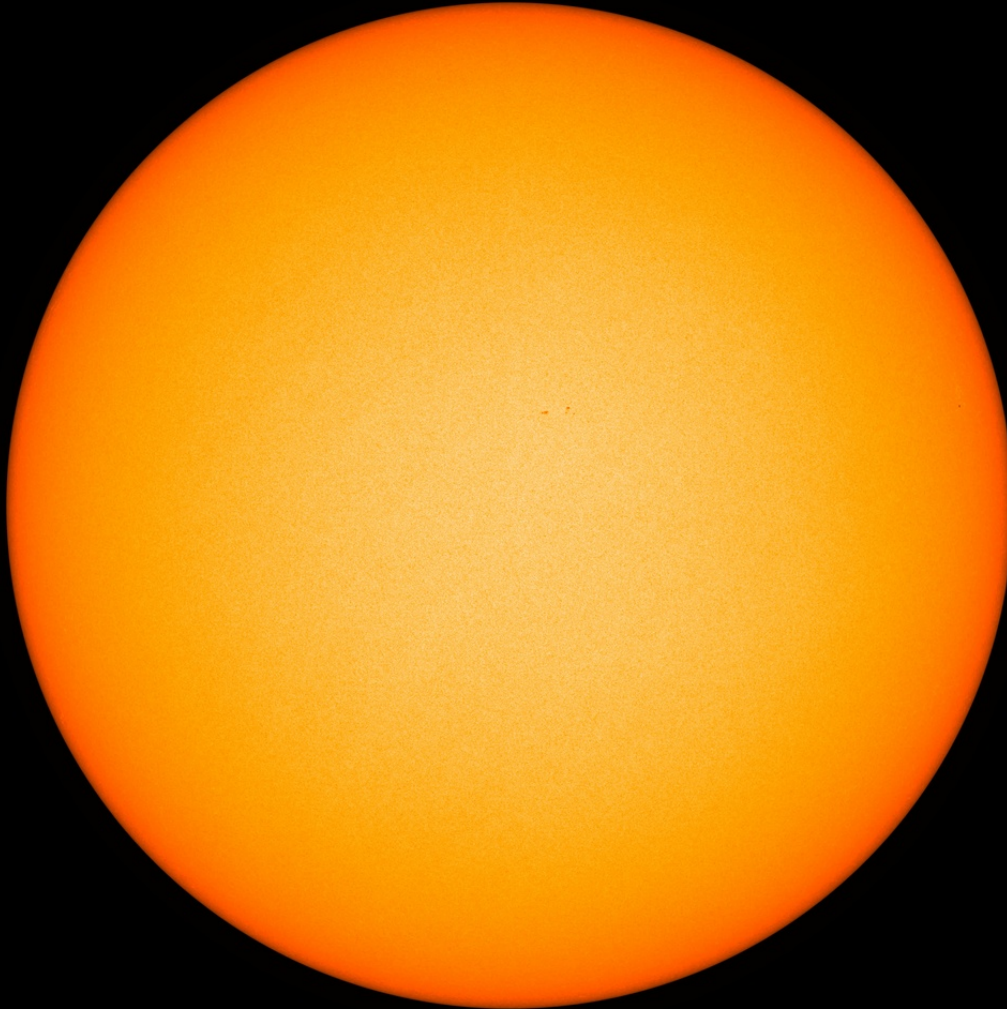
Solar Activity



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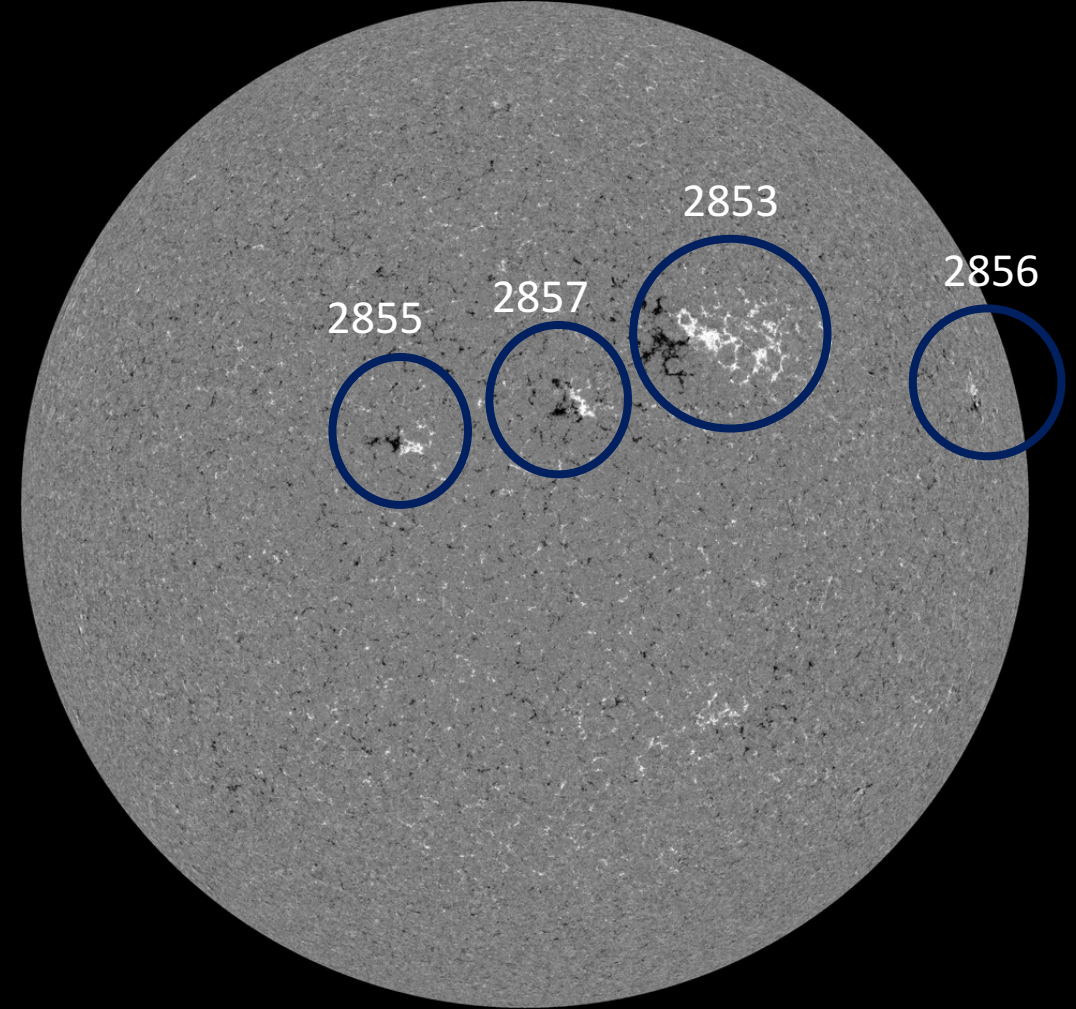
Solar active regions

SDO/HMI White Light 2021-08-15



SDO/HMI Quick-Look Continuum: 20210815_114500

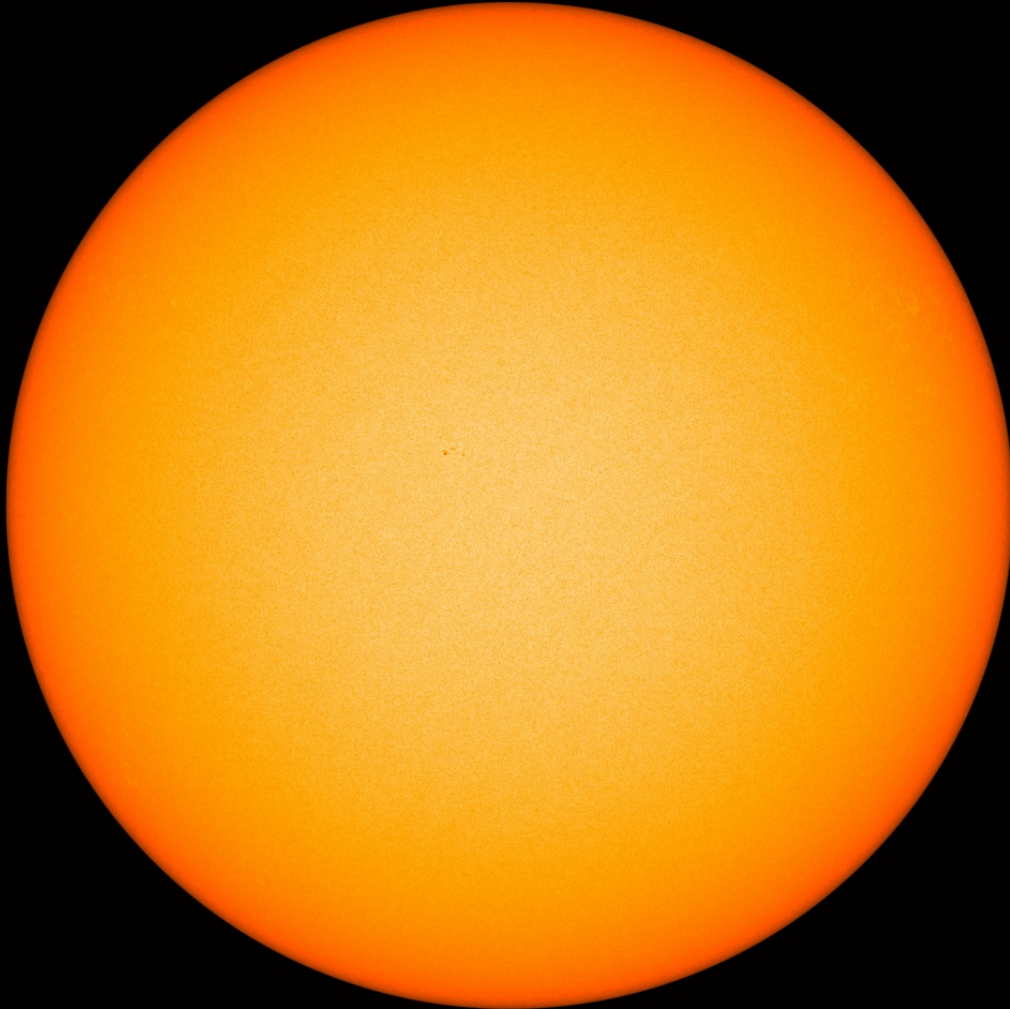
SDO/HMI Magnetogram 2021-08-15



SDO/HMI Quick-Look Magnetogram: 20210815_114500

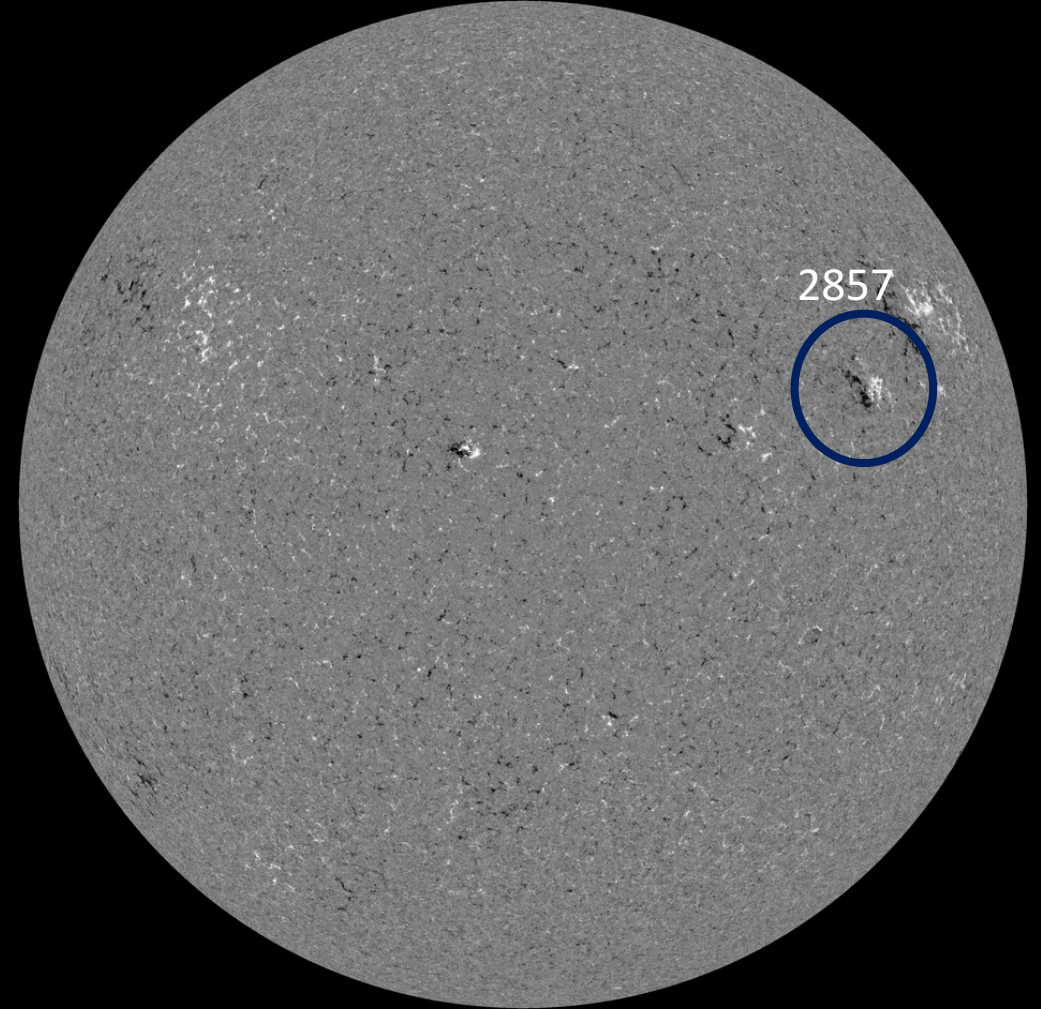
Solar active regions

SDO/HMI White Light 2021-08-18



SDO/HMI Quick-Look Continuum: 20210818_114500

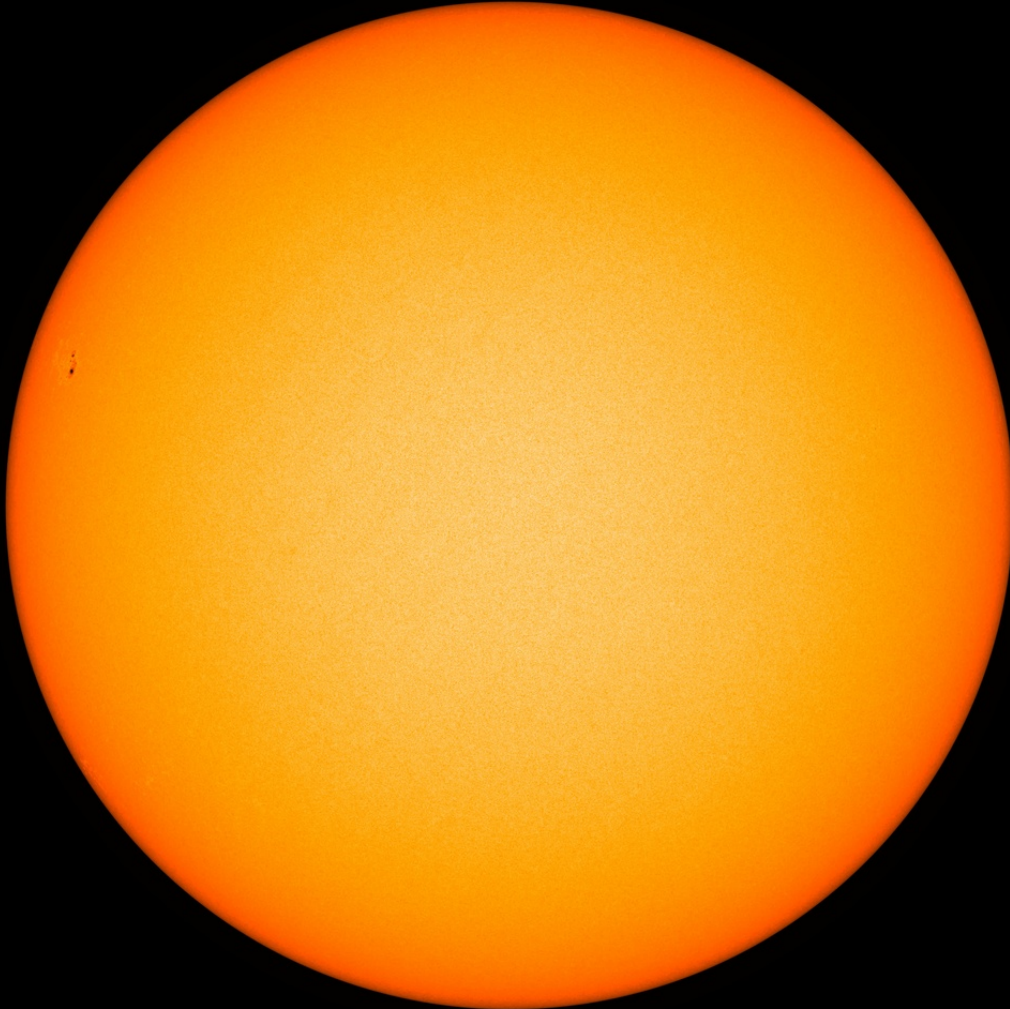
SDO/HMI Magnetogram 2021-08-18



SDO/HMI Quick-Look Magnetogram: 20210818_114500

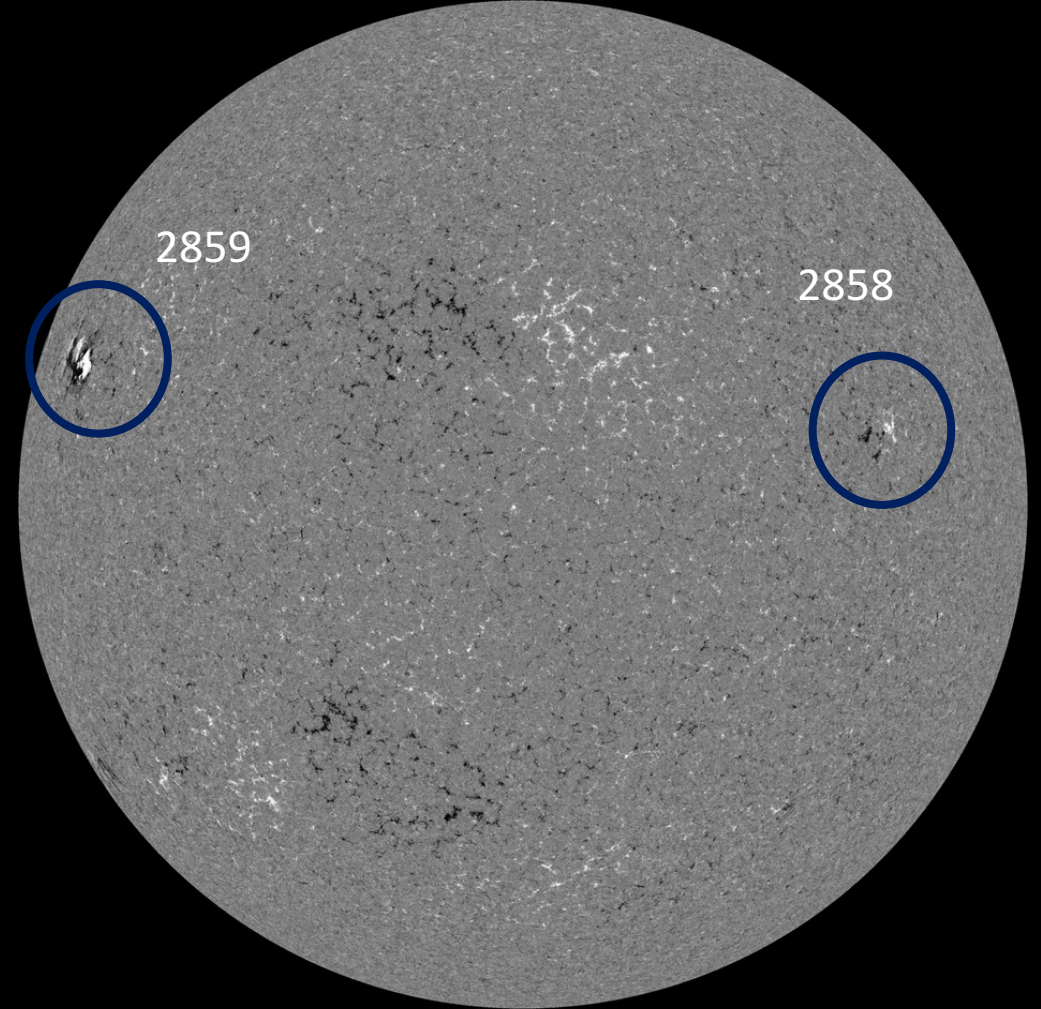
Solar active regions

SDO/HMI White Light 2021-08-22



SDO/HMI Quick-Look Continuum: 20210822_114500

SDO/HMI Magnetogram 2021-08-22

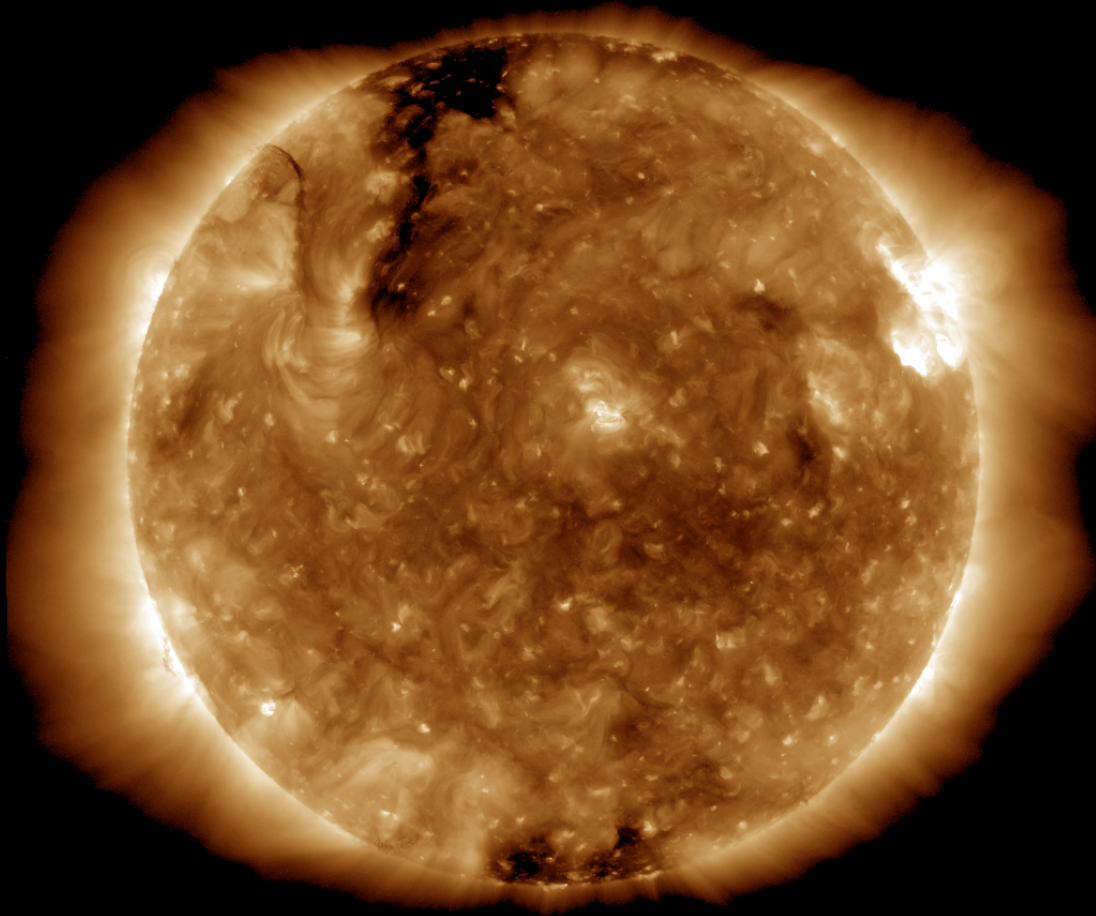


SDO/HMI Quick-Look Magnetogram: 20210822_114500

Coronal holes

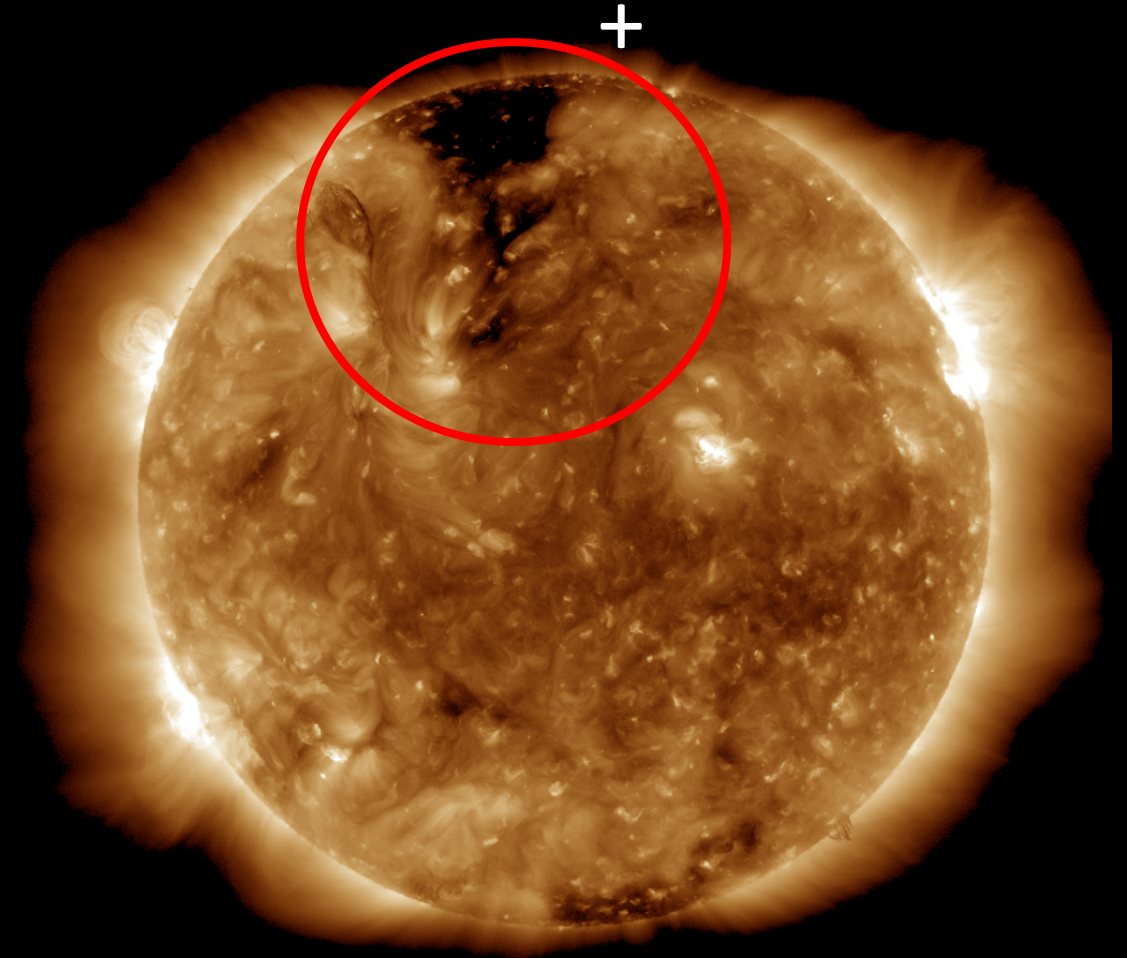
SDO/AIA 19.3 nm 2021-08-19

SDO/AIA AIA 193Å 2021-08-19T12:00:05.842



SDO/AIA 19.3 nm 2021-08-20

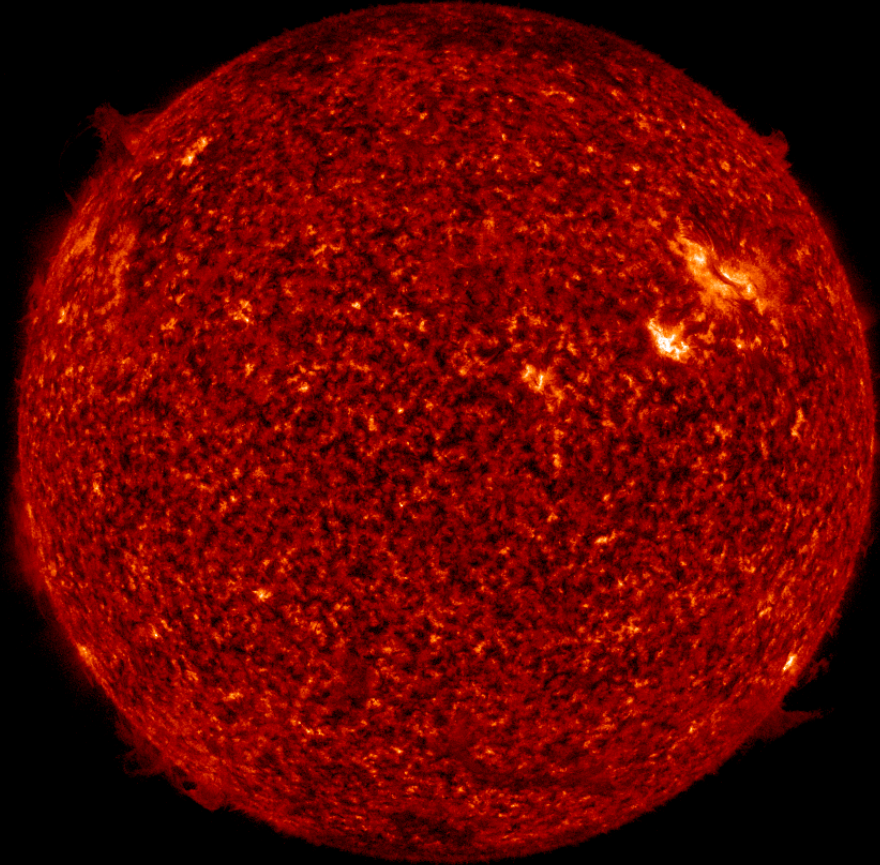
SDO/AIA AIA 193Å 2021-08-20T12:00:05.844



Filaments

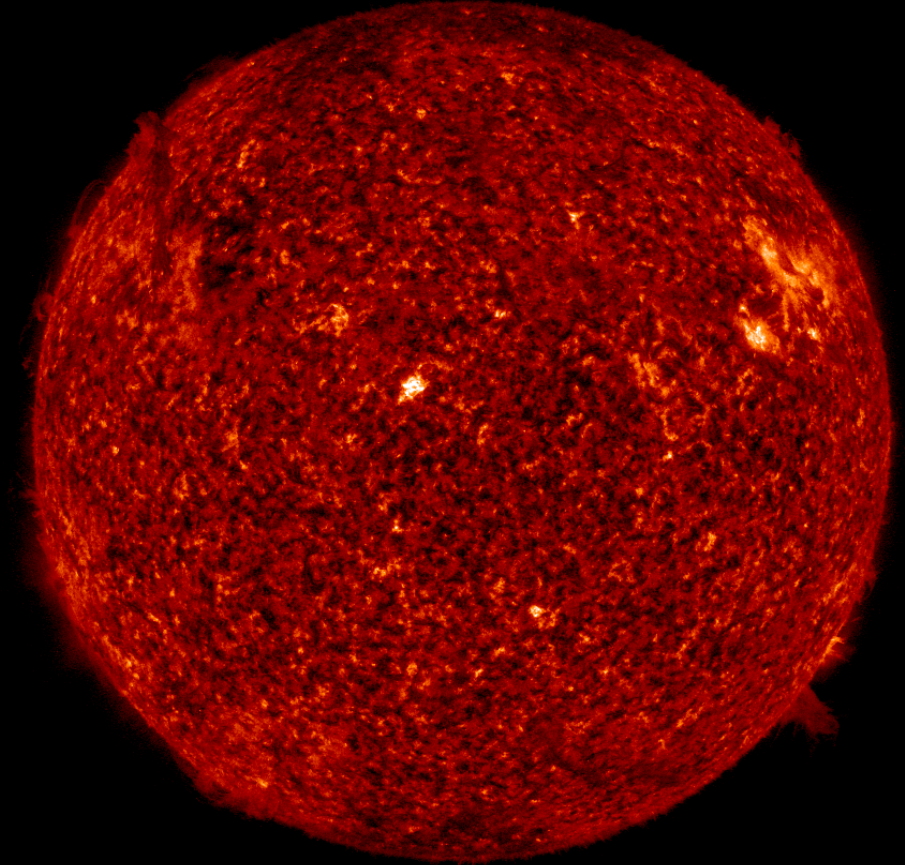
SDO/AIA 30.4 nm 2021-08-17

SDO/AIA AIA 304Å 2021-08-17T12:00:06.573



SDO/AIA 30.4 nm 2021-08-18

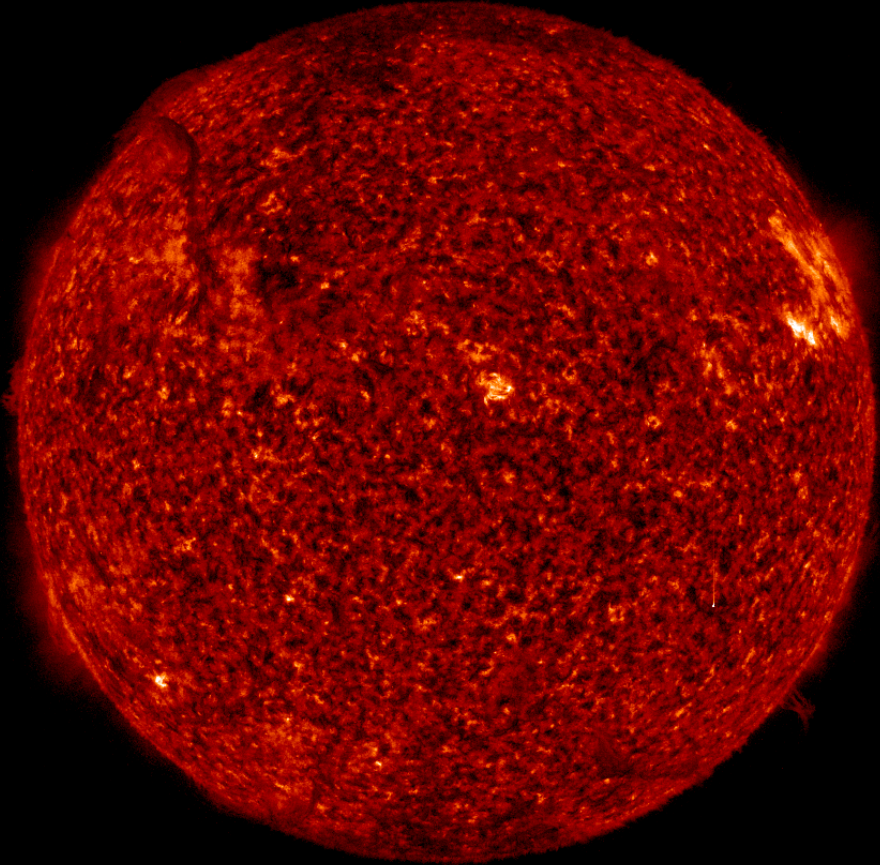
SDO/AIA AIA 304Å 2021-08-18T12:00:06.580



Filaments

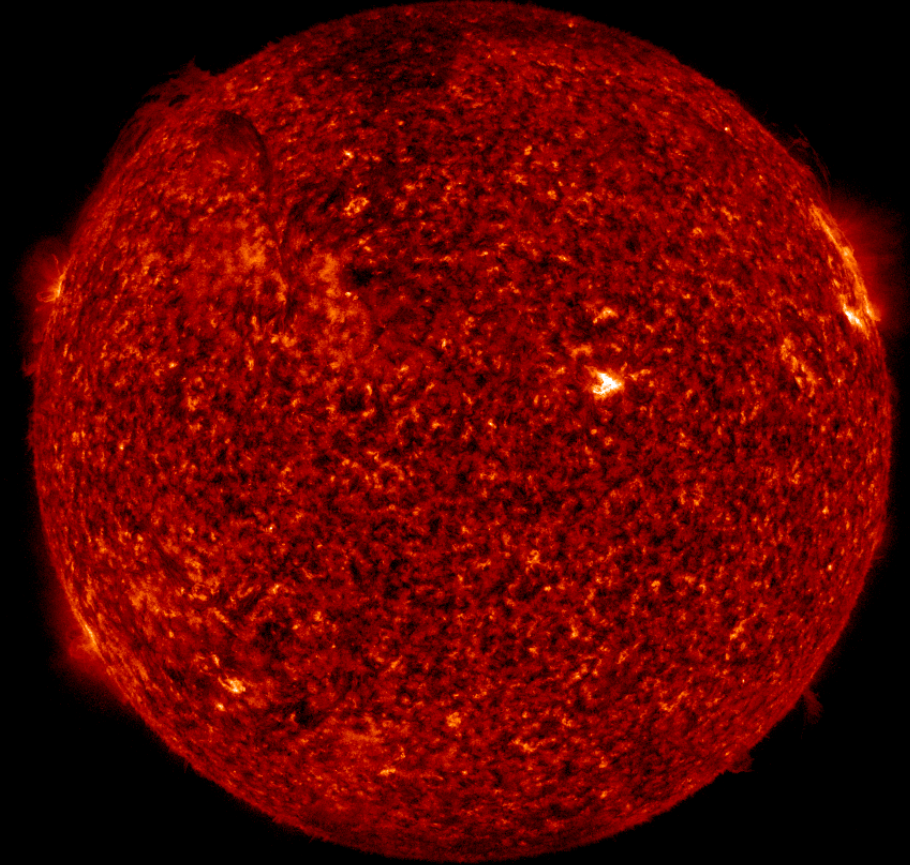
SDO/AIA 30.4 nm 2021-08-19

SDO/AIA AIA 304Å 2021-08-19T12:00:06.580



SDO/AIA 30.4 nm 2021-08-20

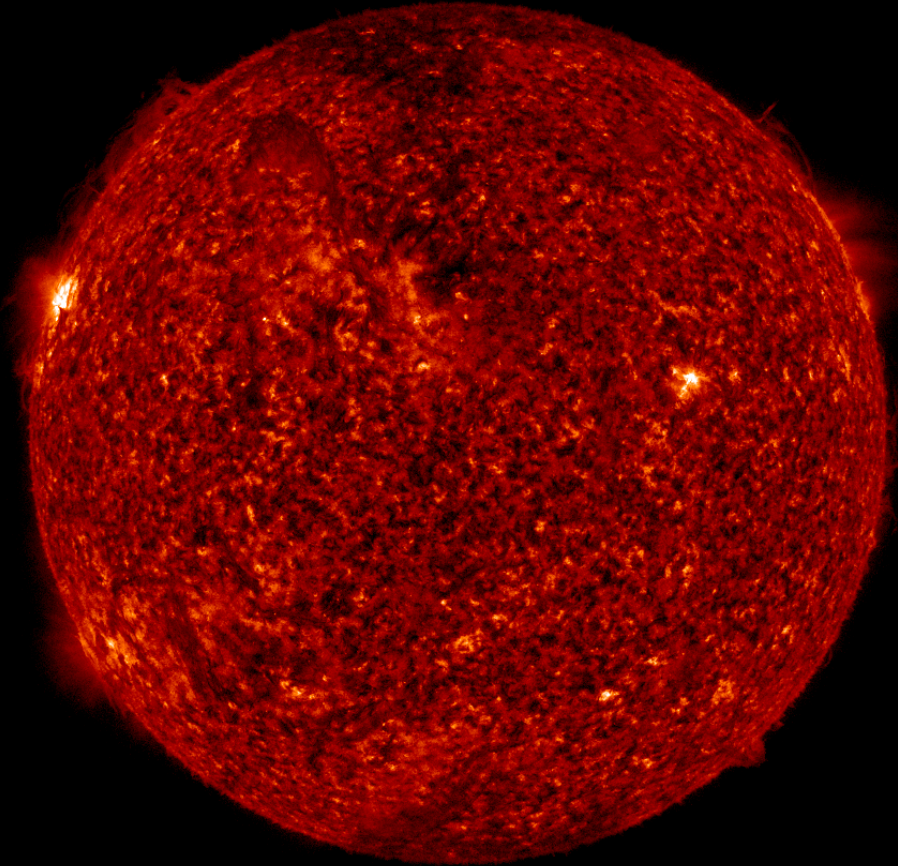
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Filaments

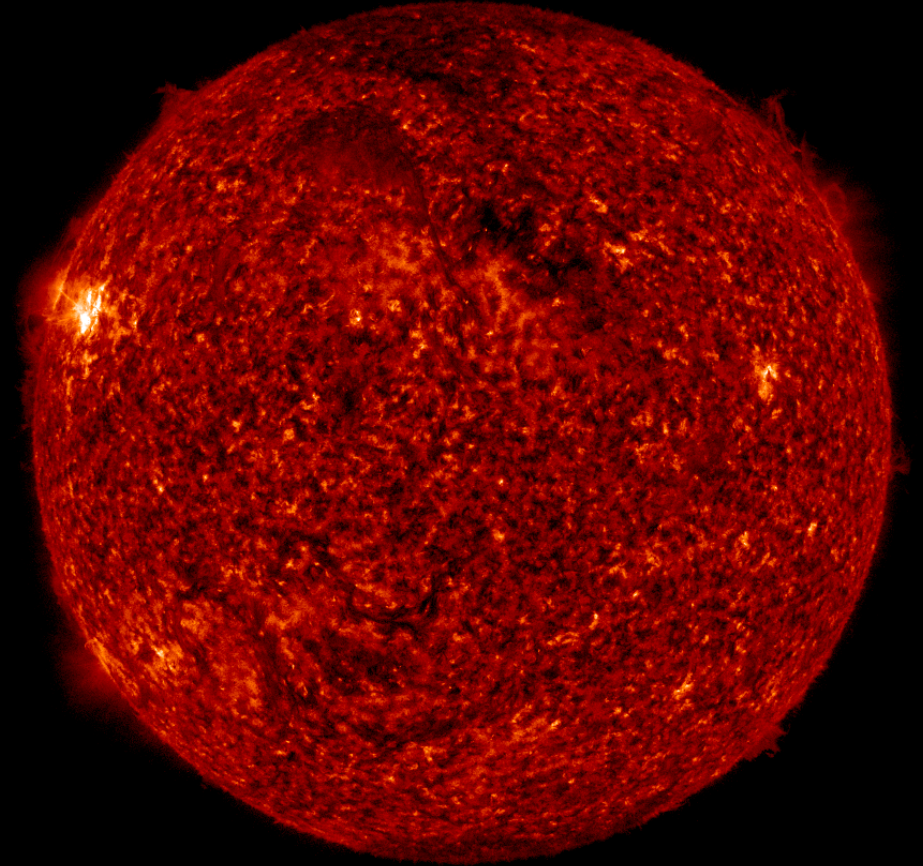
SDO/AIA 30.4 nm 2021-08-21

SDO/AIA AIA 304Å 2021-08-21T12:00:06.580



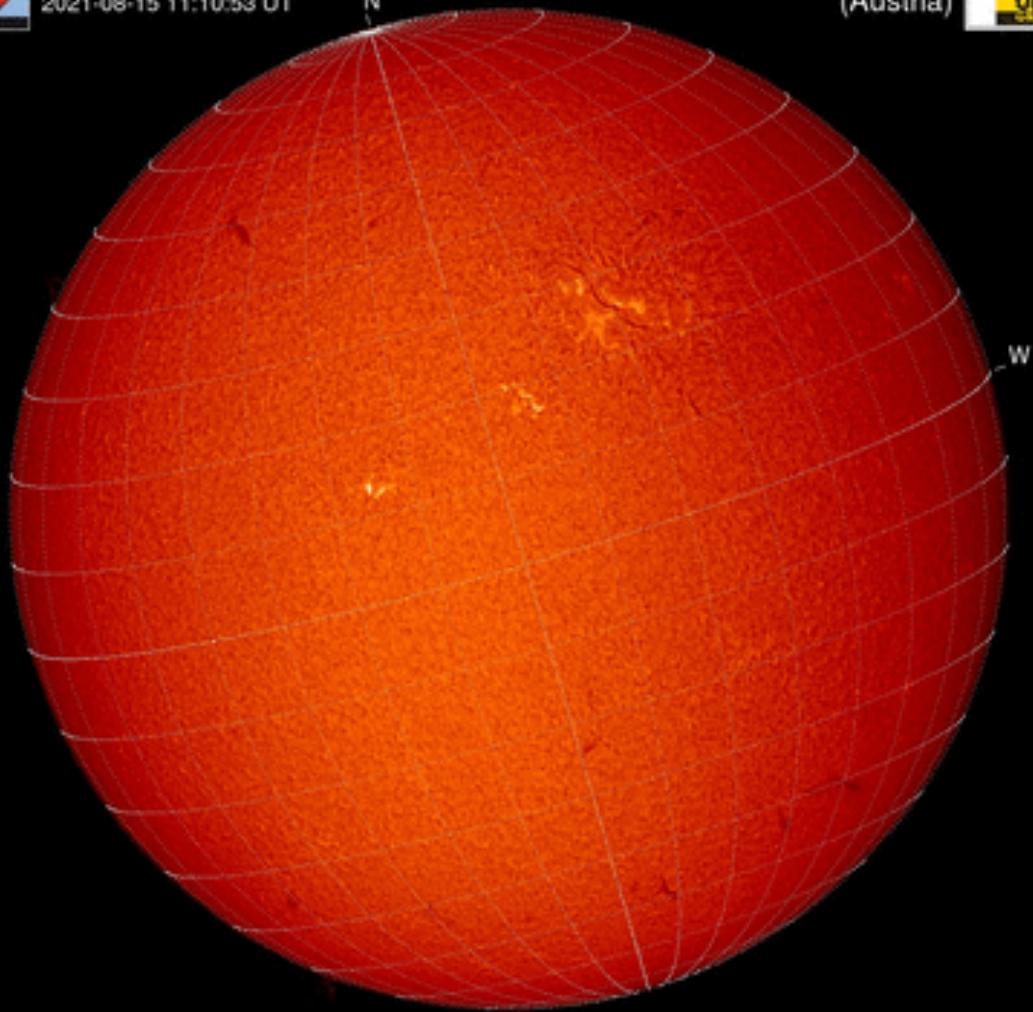
SDO/AIA 30.4 nm 2021-08-22

SDO/AIA AIA 304Å 2021-08-22T12:00:06.580

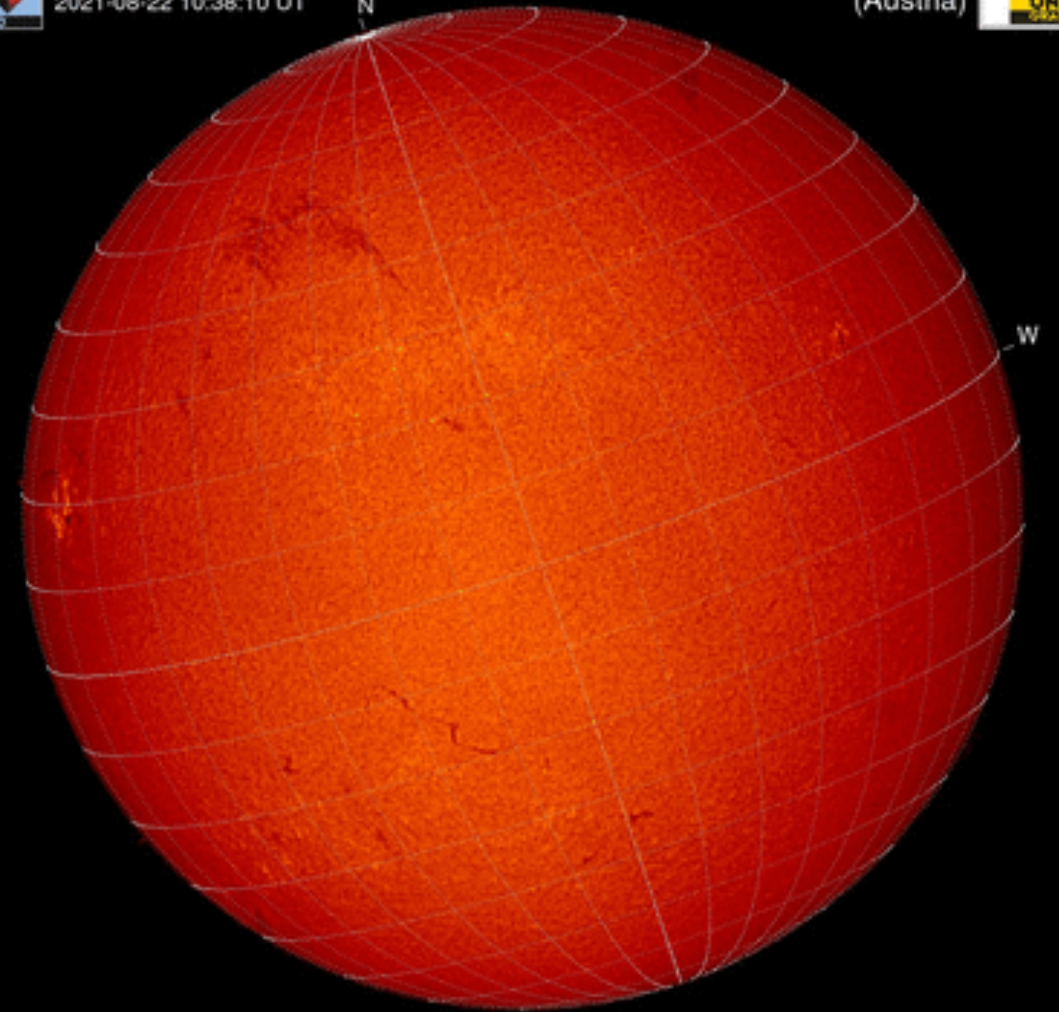


Filaments & Filament eruptions

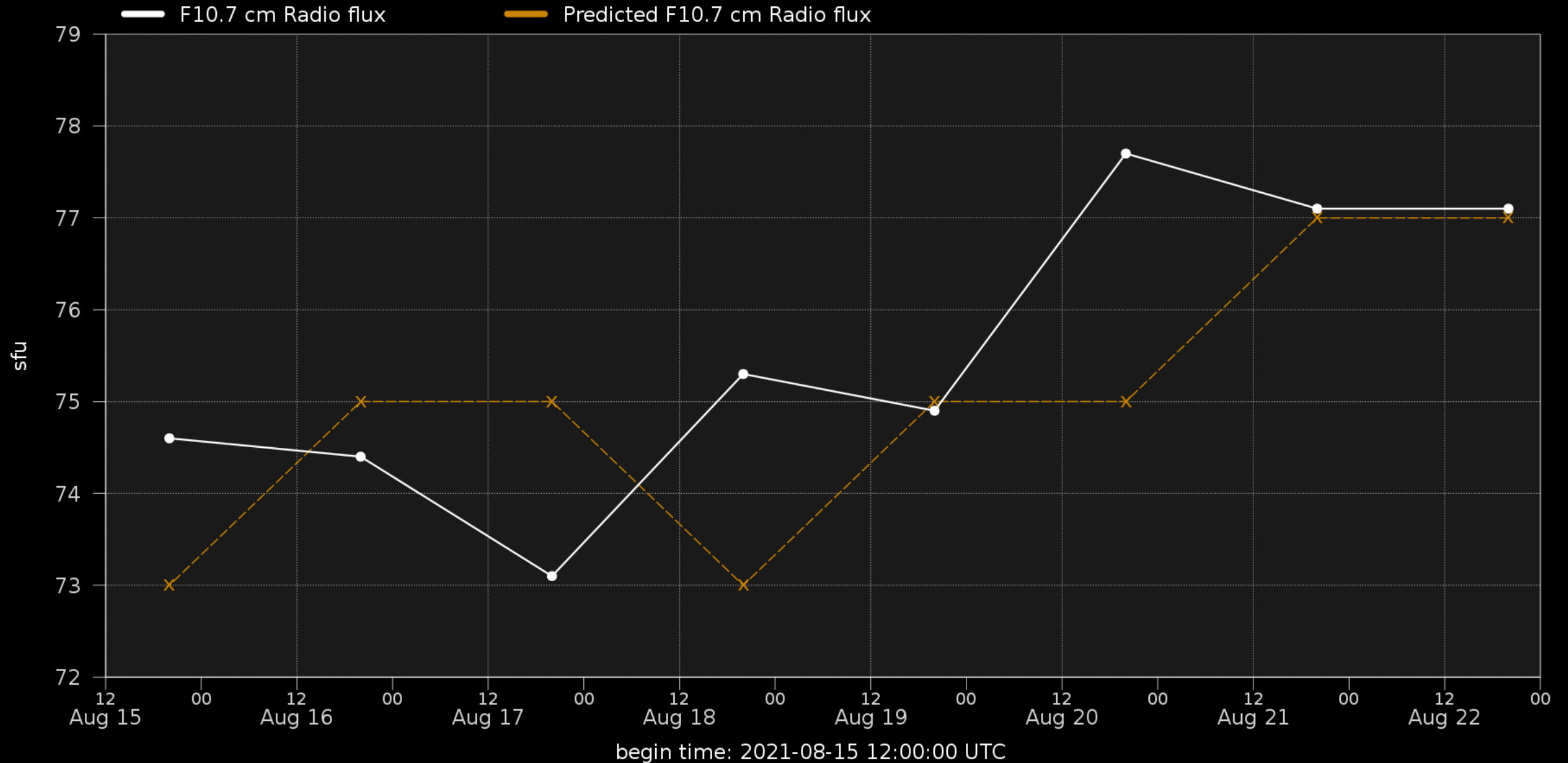
H-alpha 2021-08-15



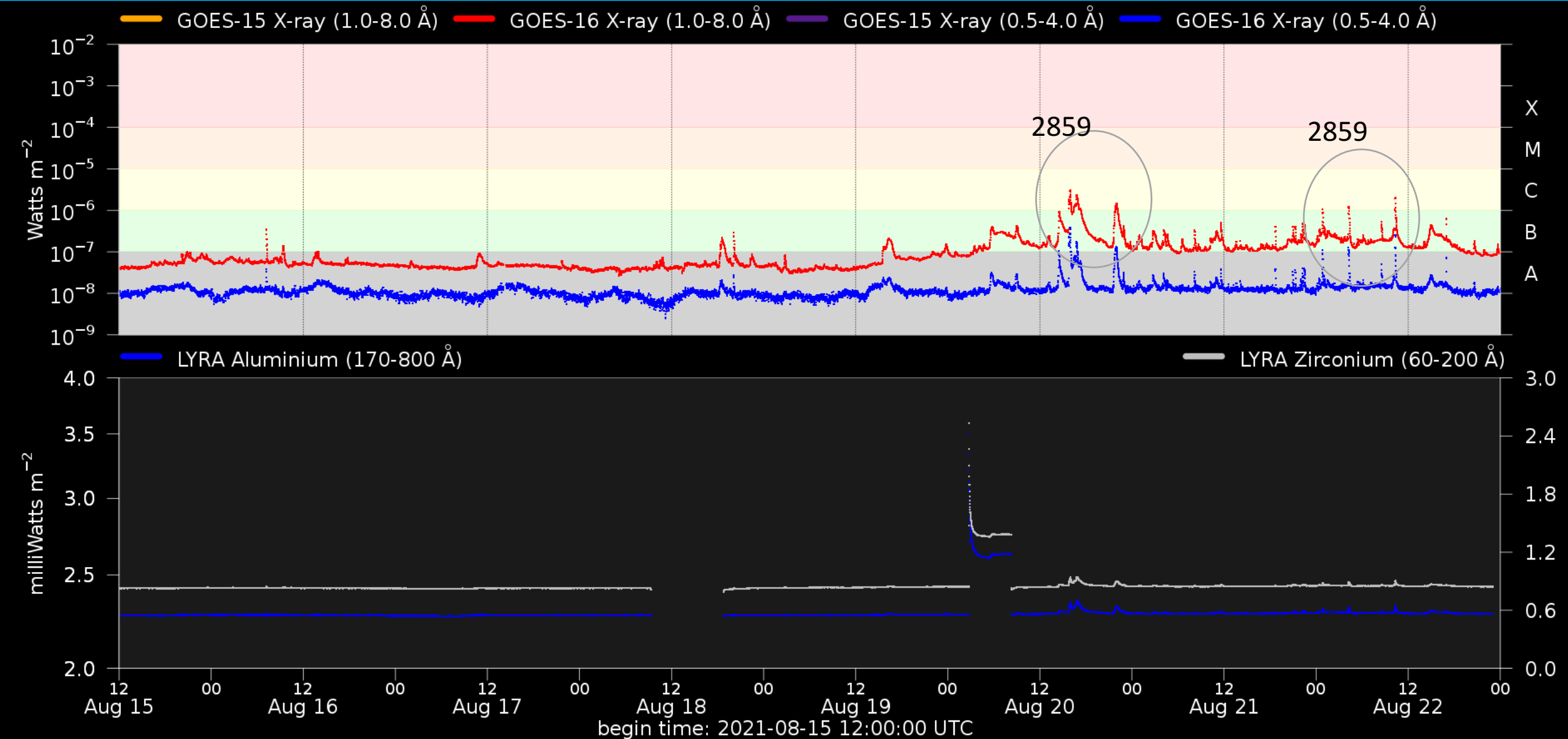
H-alpha 2021-08-22



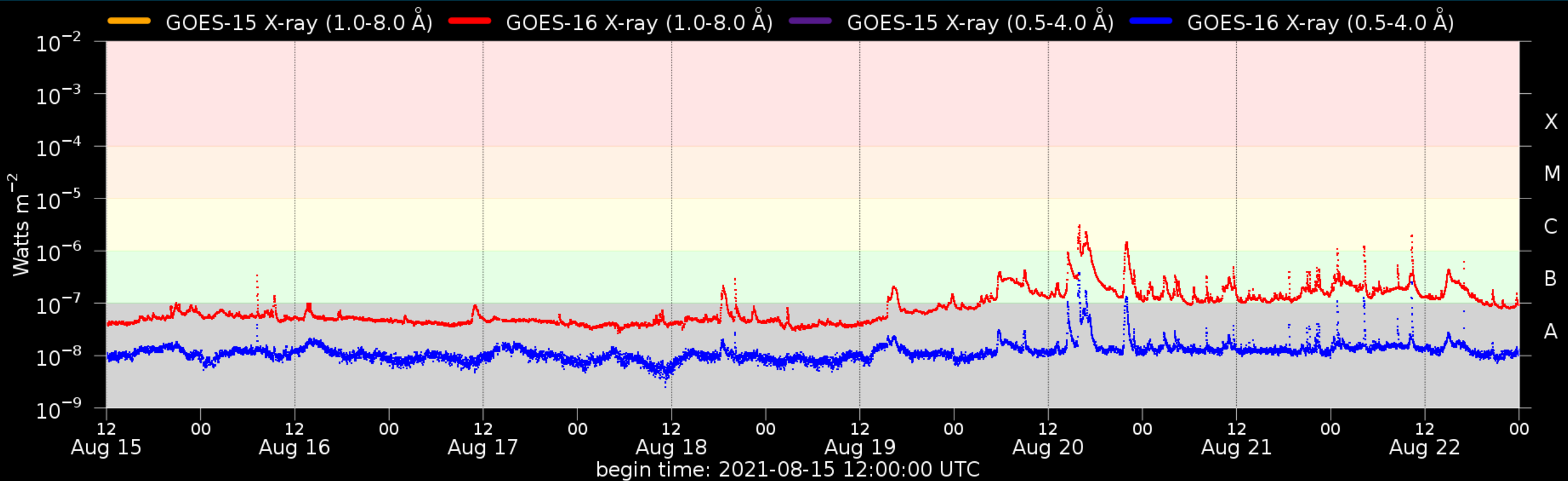
Solar F10.7cm radio flux



Solar X-Ray and UV flux



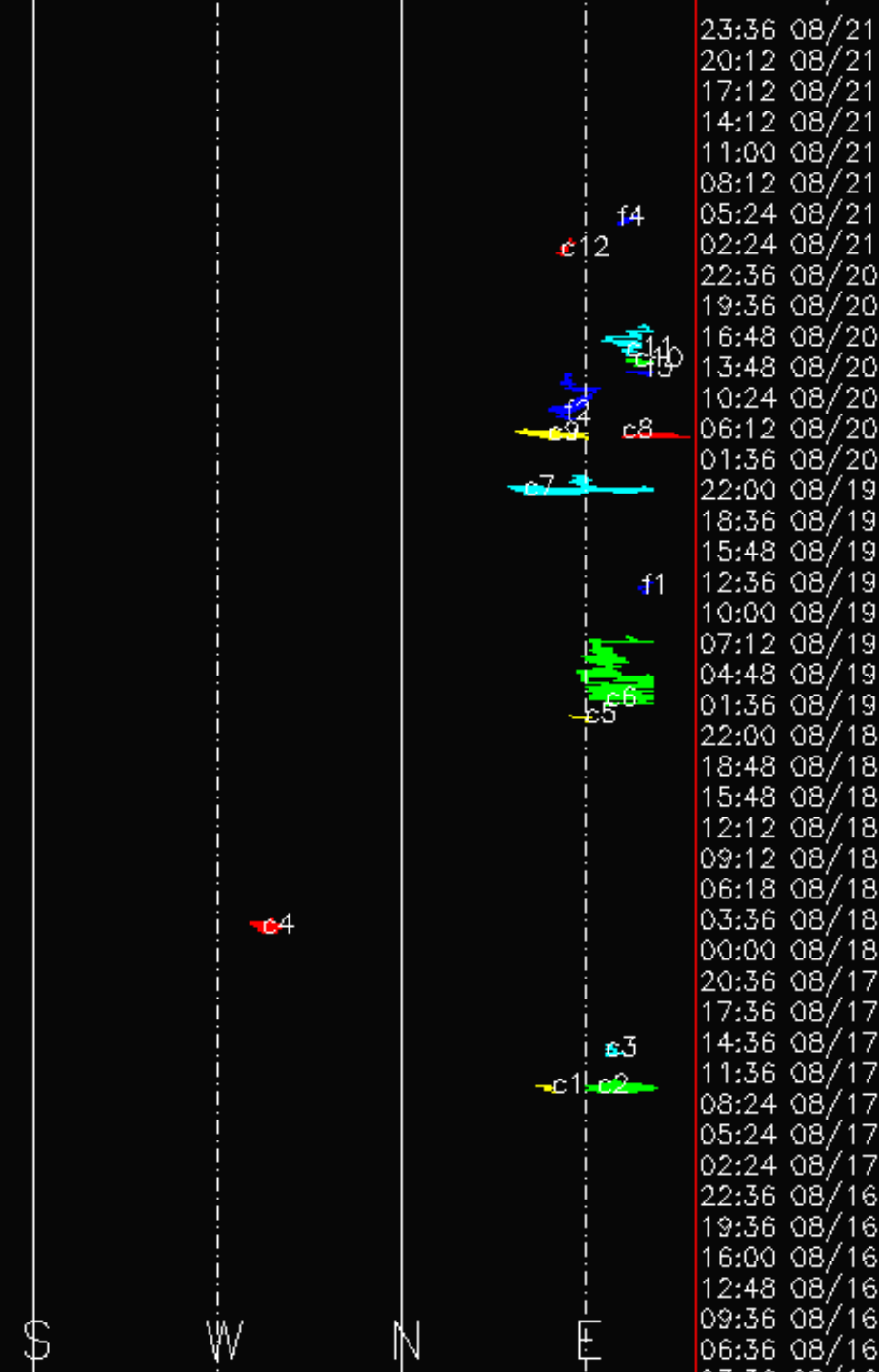
Flaring activity



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

Issue date	2021-08-15	2021-08-16	2021-08-17	2021-08-18	2021-08-19	2021-08-20	2021-08-21	2021-08-22
Probability (%)	10 01 01	05 01 01	20 01 01	10 01 01	10 01 01	50 05 01	60 10 01	60 05 01
Observed (#)	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	03 00 00	02 00 00	01 00 00

Coronal Mass Ejections



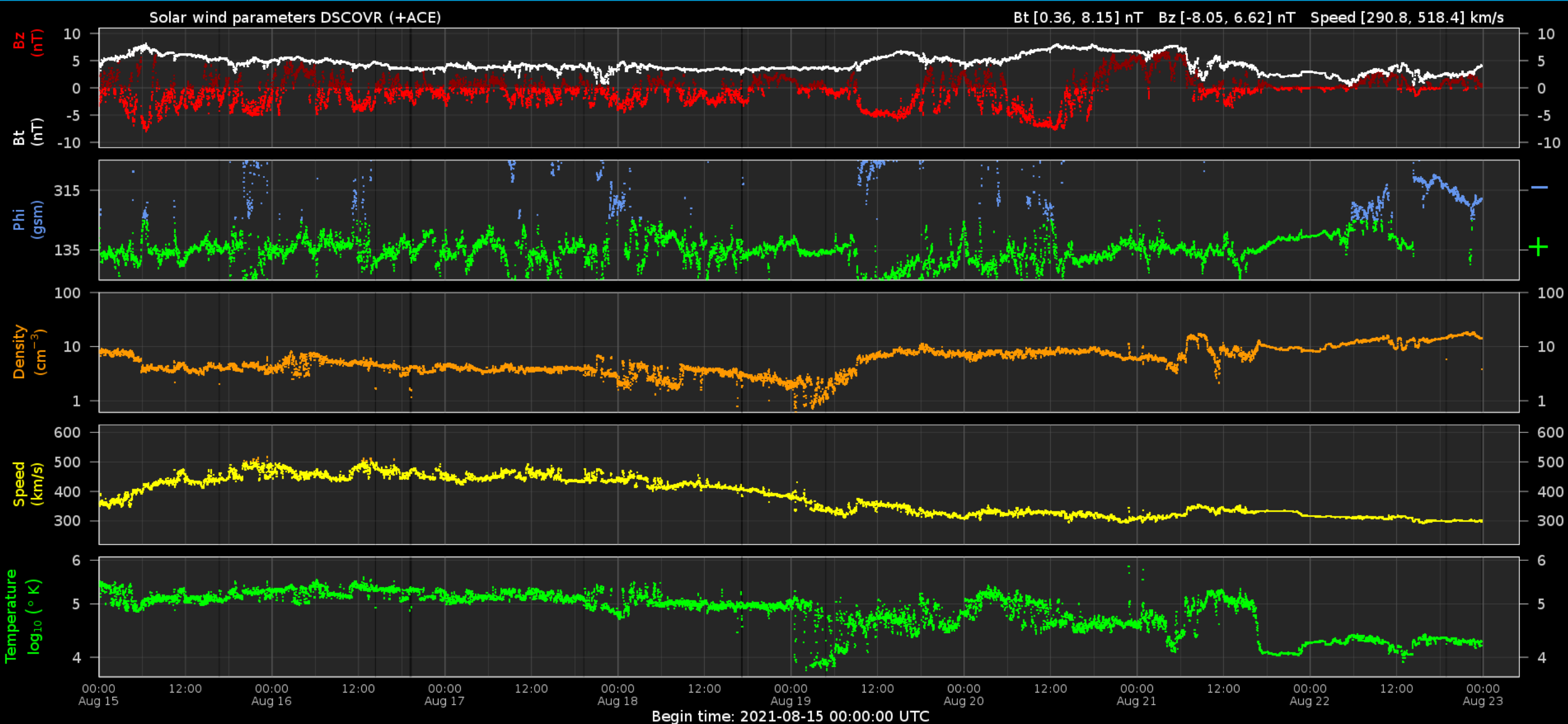
Solar Wind and Geomagnetic Activity



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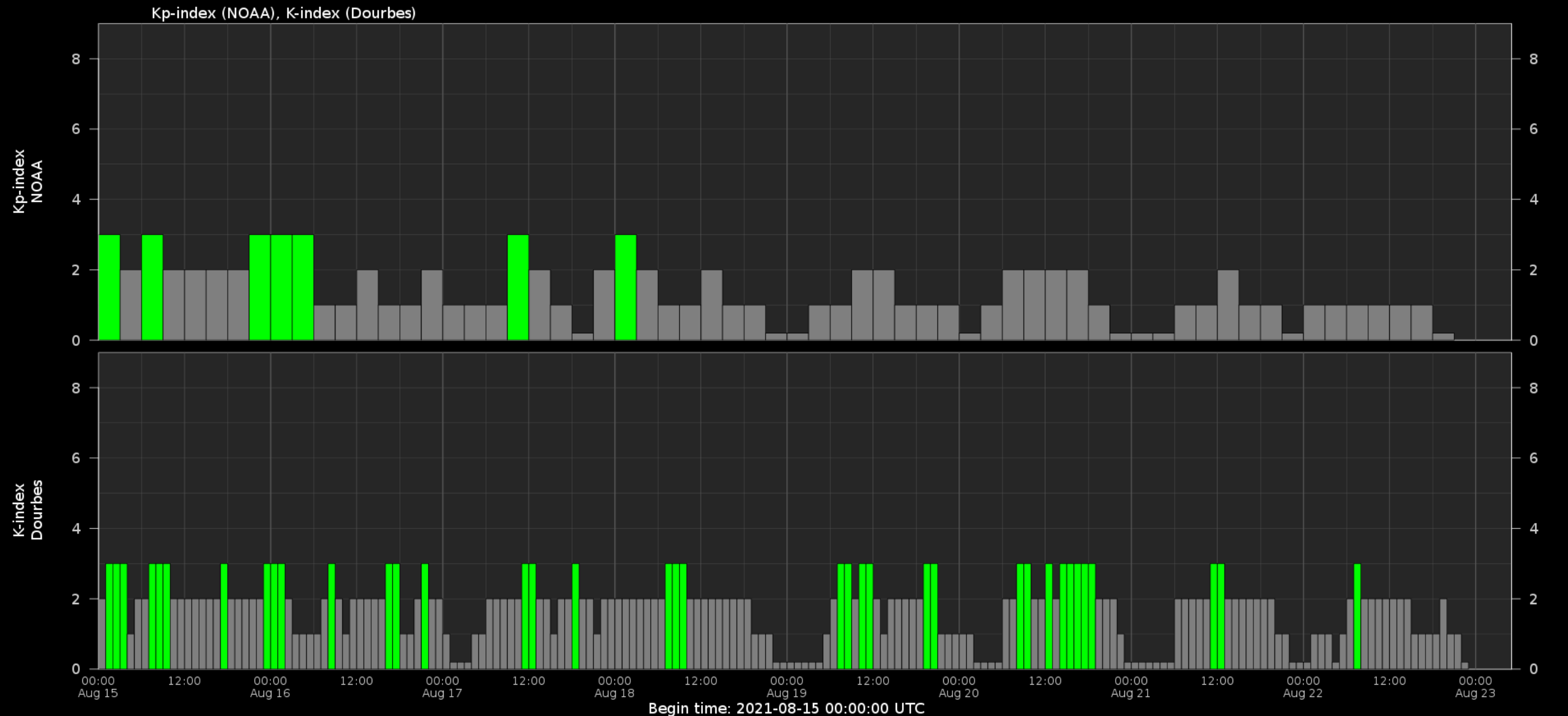
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)

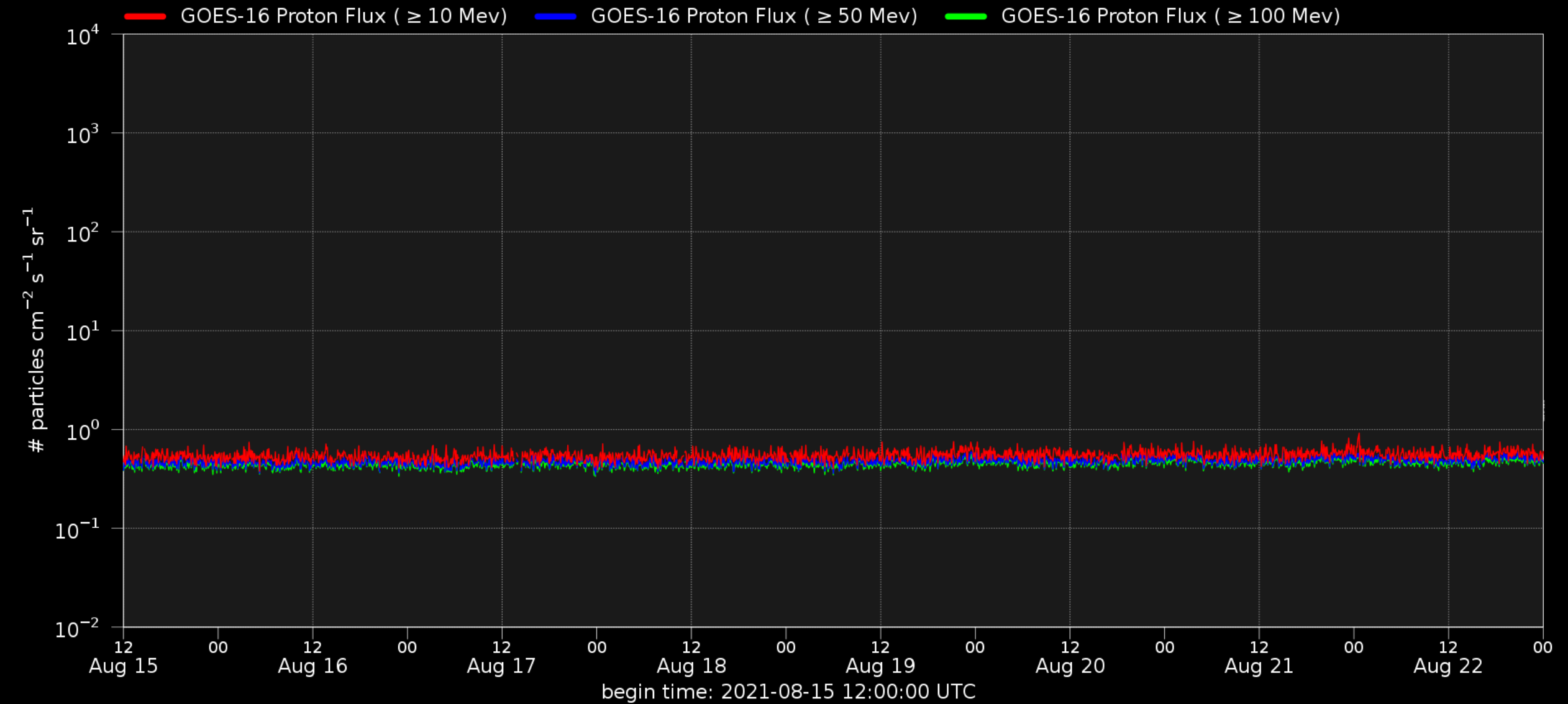


Energetic Particles

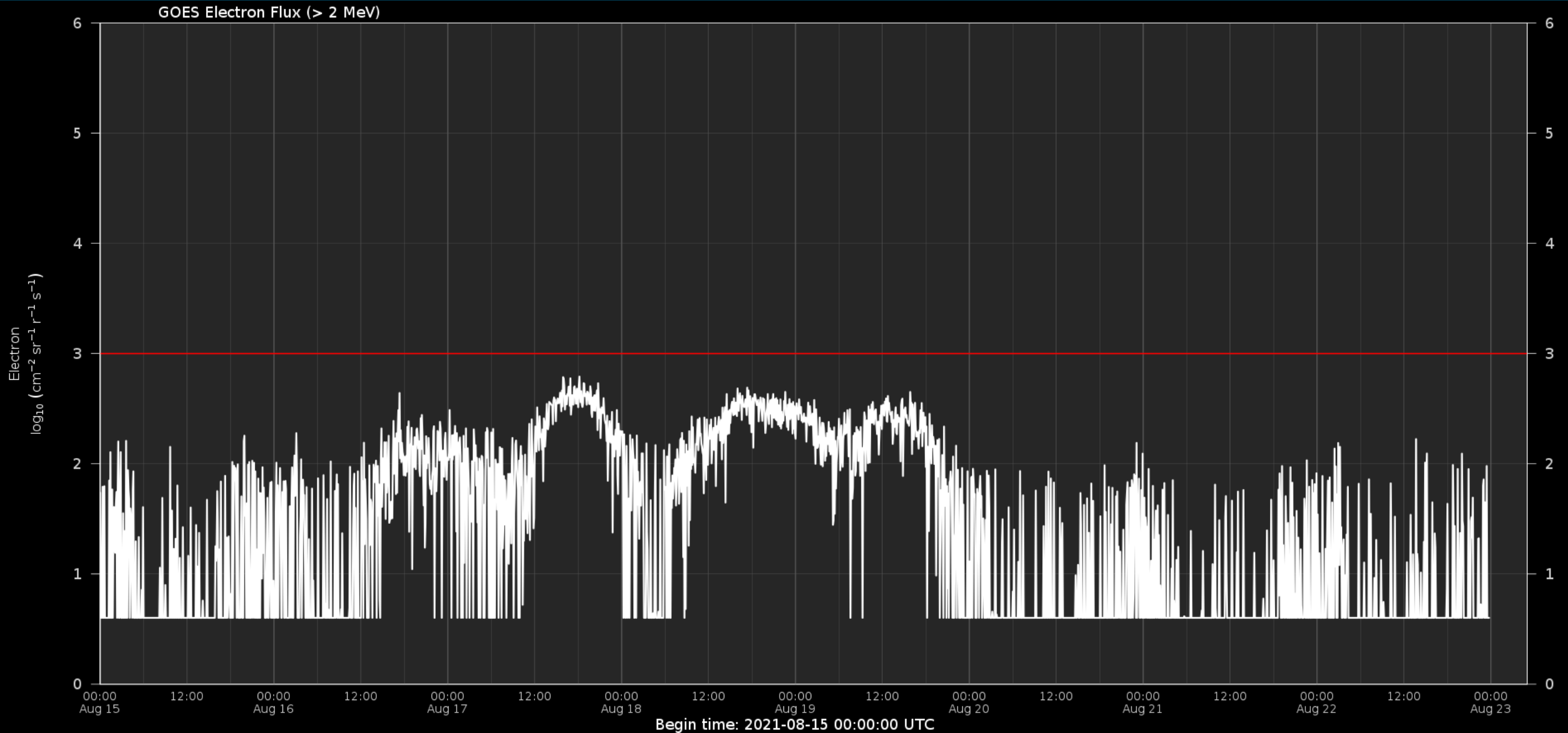


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Solar proton flux

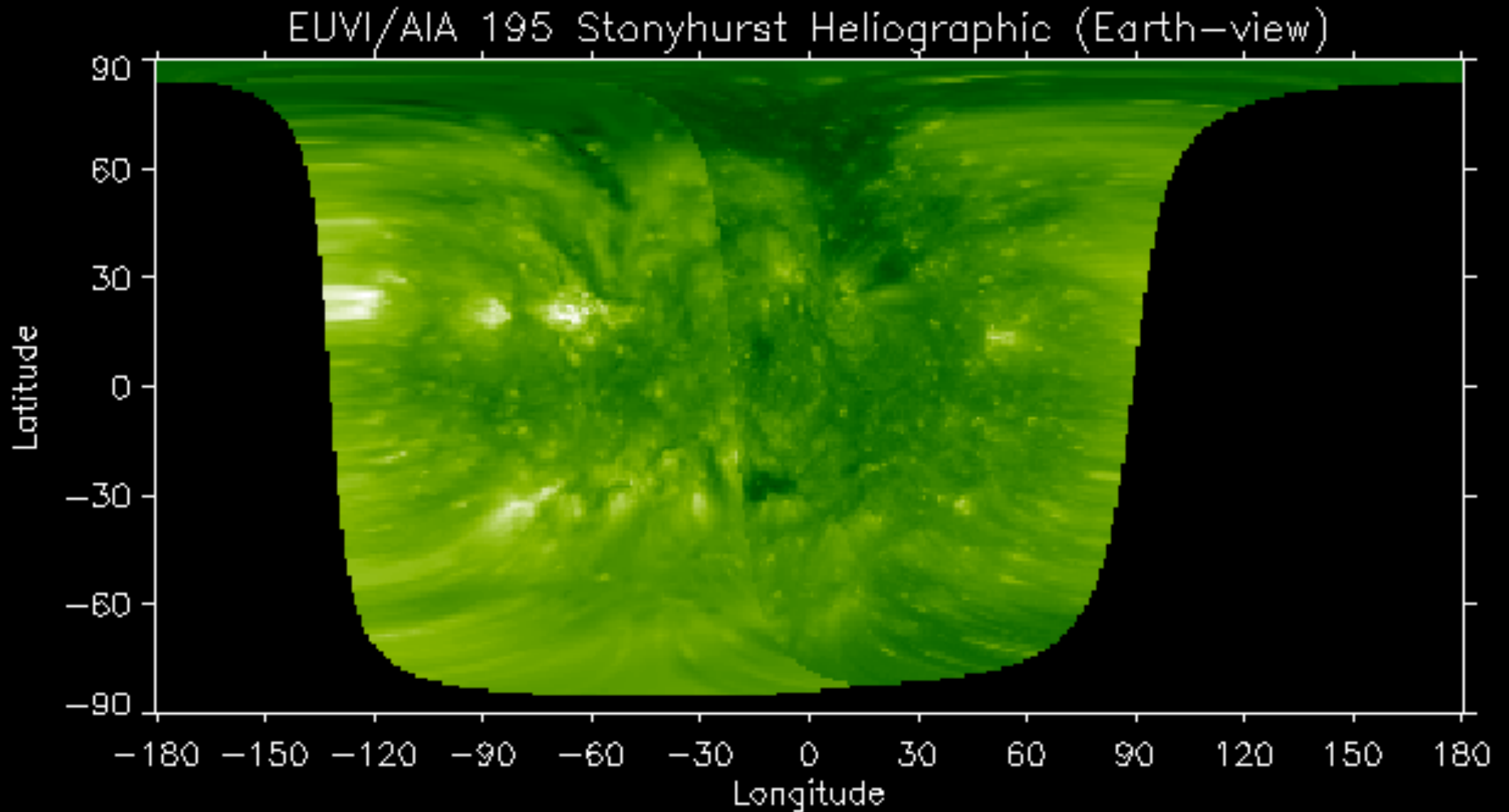


Electron flux at GEO

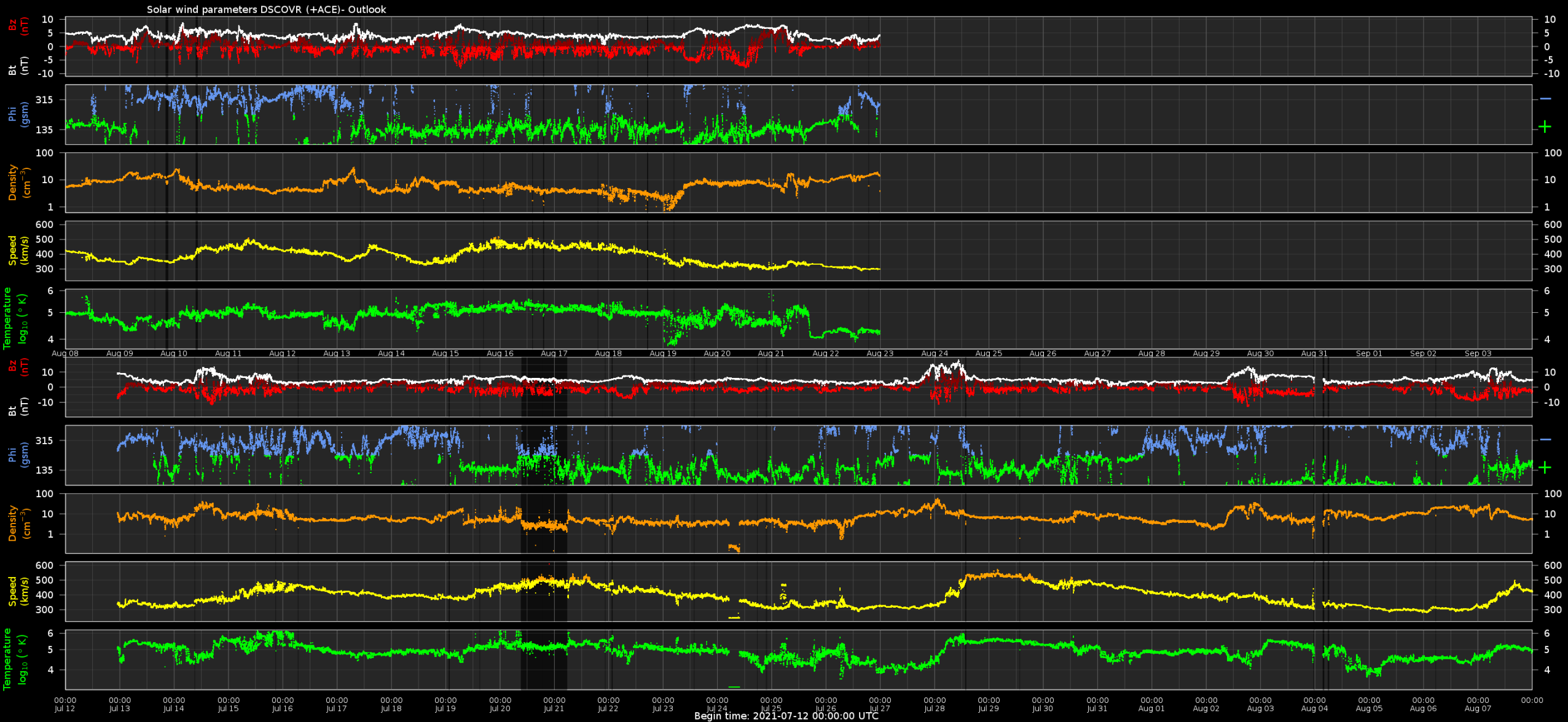


Outlook

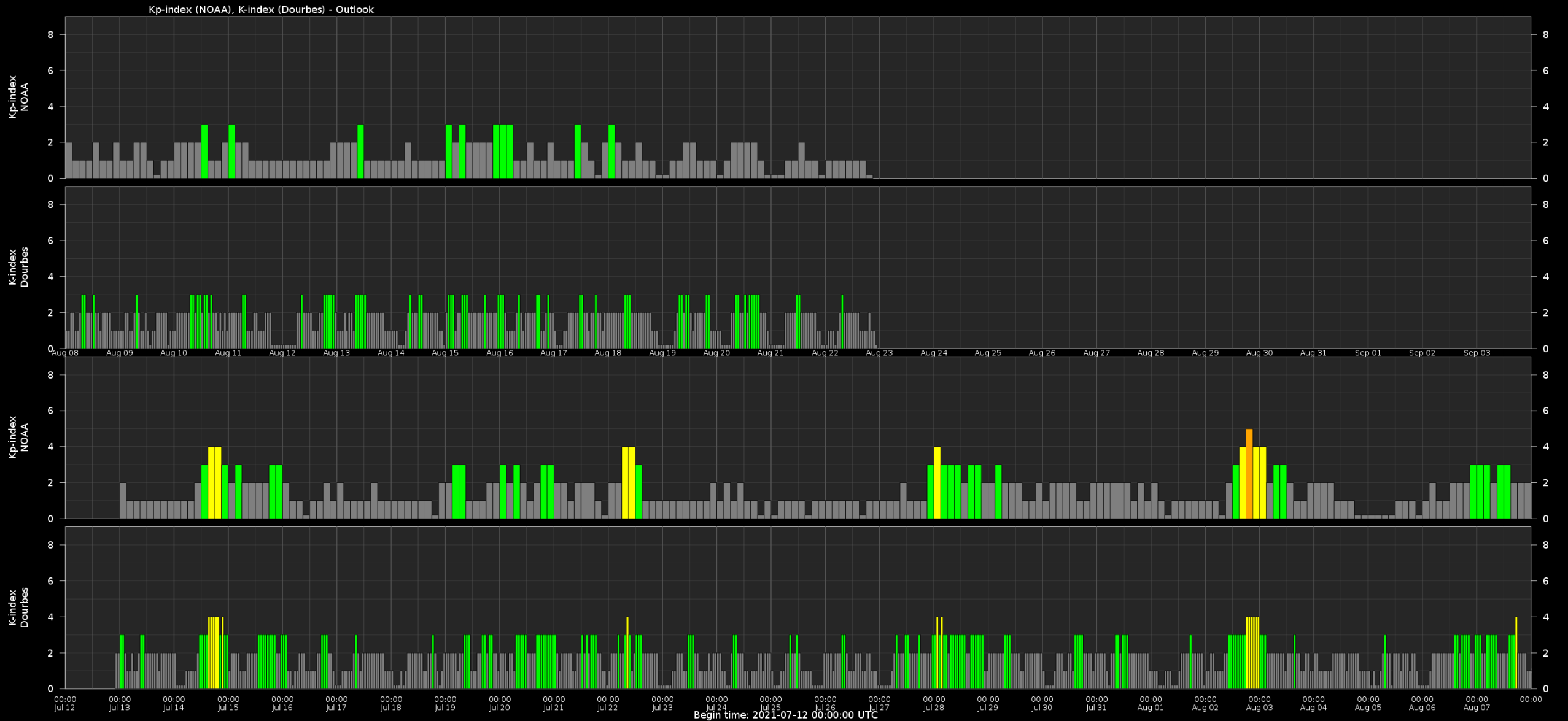
Outlook: Solar activity



Outlook: Solar wind parameters



Outlook: Geomagnetic activity



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