

SIDC Space Weather Briefing

11 July 2021 - 18 July 2021

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& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
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Summary Report

Solar activity from 2021-07-11 12:00 to 2021-07-18 23:59

Active regions	NOAA AR 2841, 2842, 2843, 2844, 2845
Flares	# C-class flare: 2 # M-class flare: 0 # X-class flare: 0
Filament eruptions	11/7, 18/7
Coronal Holes	No crossing

Proton flux	At nominal levels
Electron flux	Below thresholds

Solar wind and geomagnetic conditions

ICME	None Observed
SW Conditions	B : 1- 13 nT // Bz: -12 nT to 7 nT // Speed: 340 – 490 km/s
K-indices	max K-index (Dourbes): 4 max Kp-index (NOAA): 4

All Quiet Alert: On between 13-14 & 15-16 July

Solar Activity

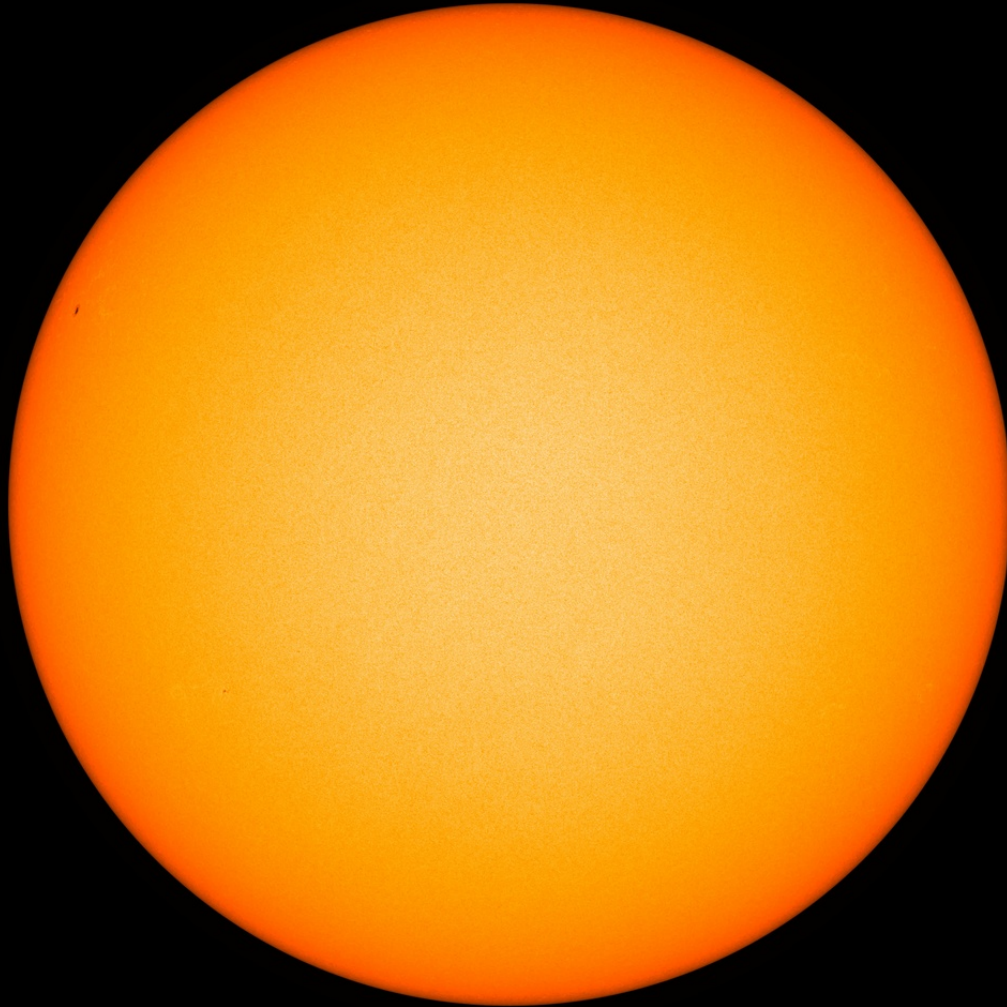


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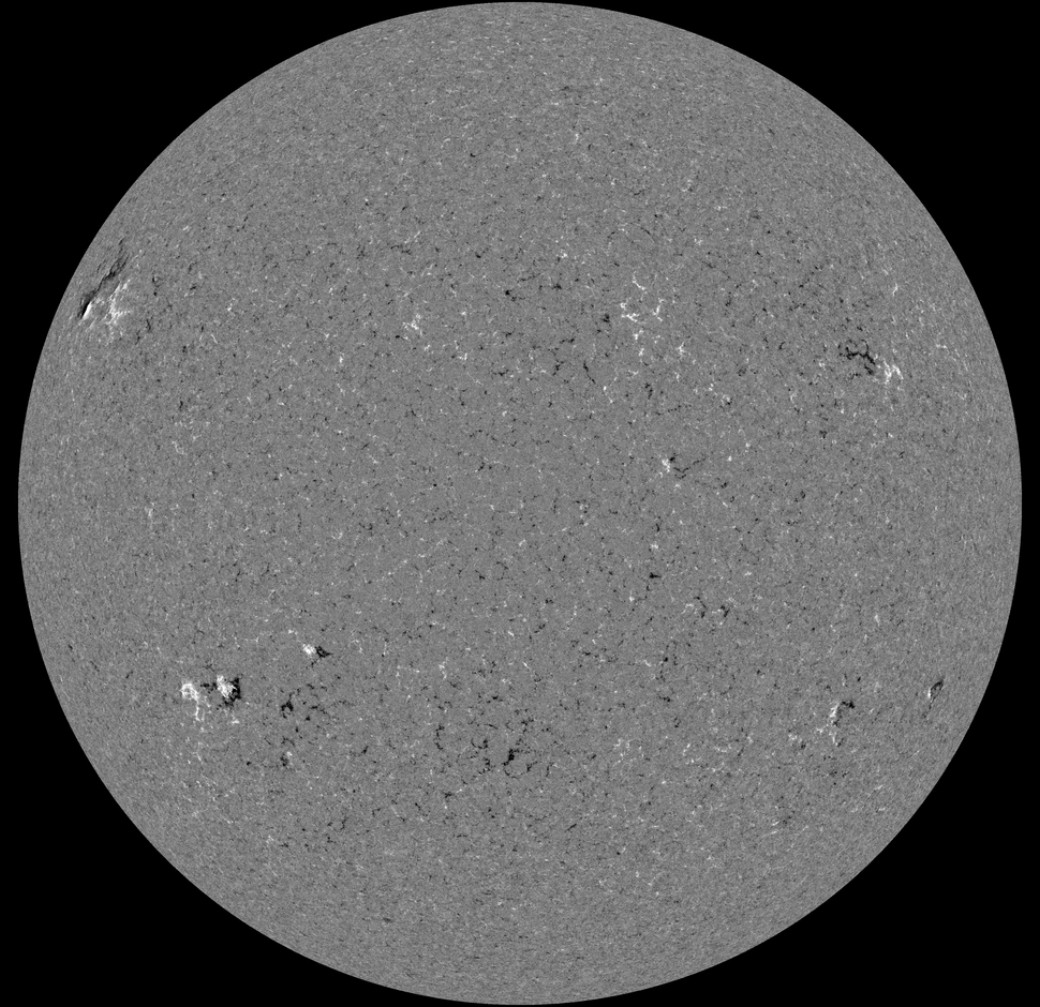
Solar active regions

SDO/HMI White Light 2021-07-11



SDO/HMI Quick-Look Continuum: 20210711_114500

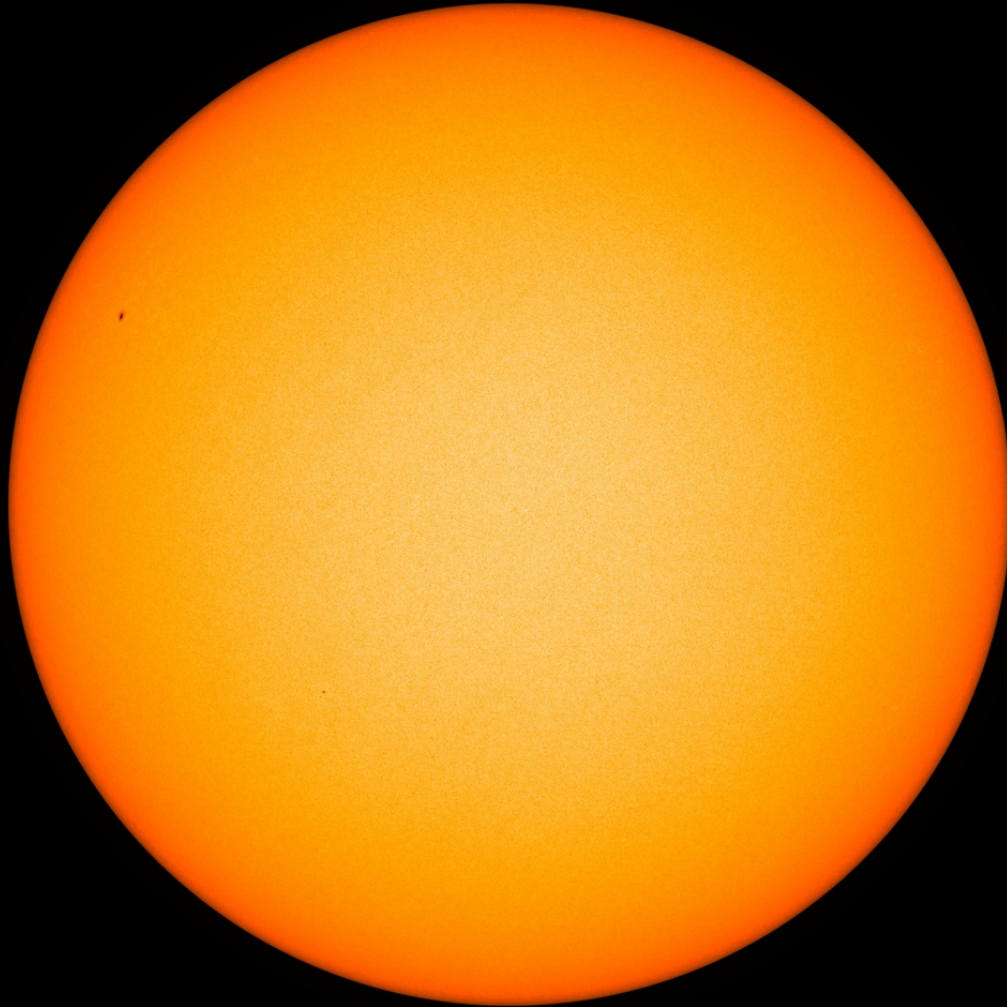
SDO/HMI Magnetogram 2021-07-11



SDO/HMI Quick-Look Magnetogram: 20210711_114500

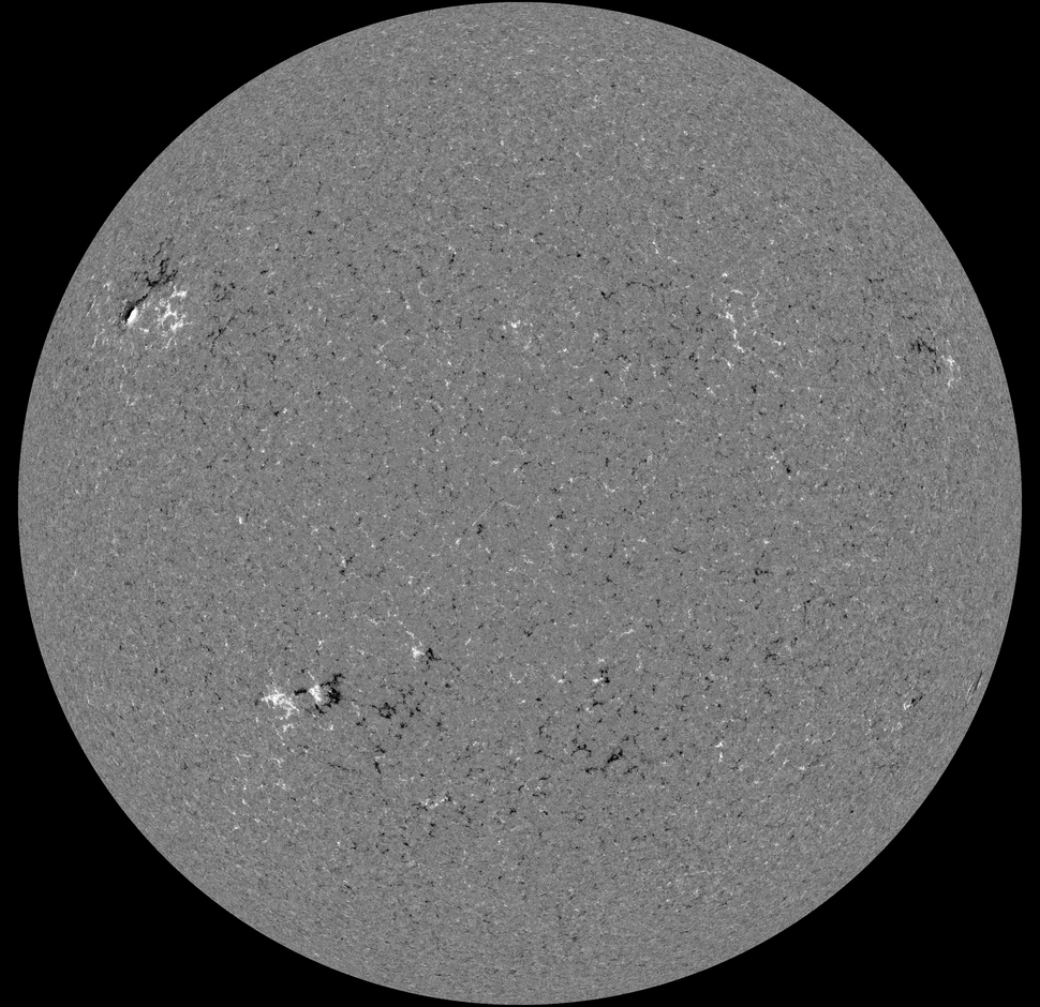
Solar active regions

SDO/HMI White Light 2021-07-12



SDO/HMI Quick-Look Continuum: 20210712_114500

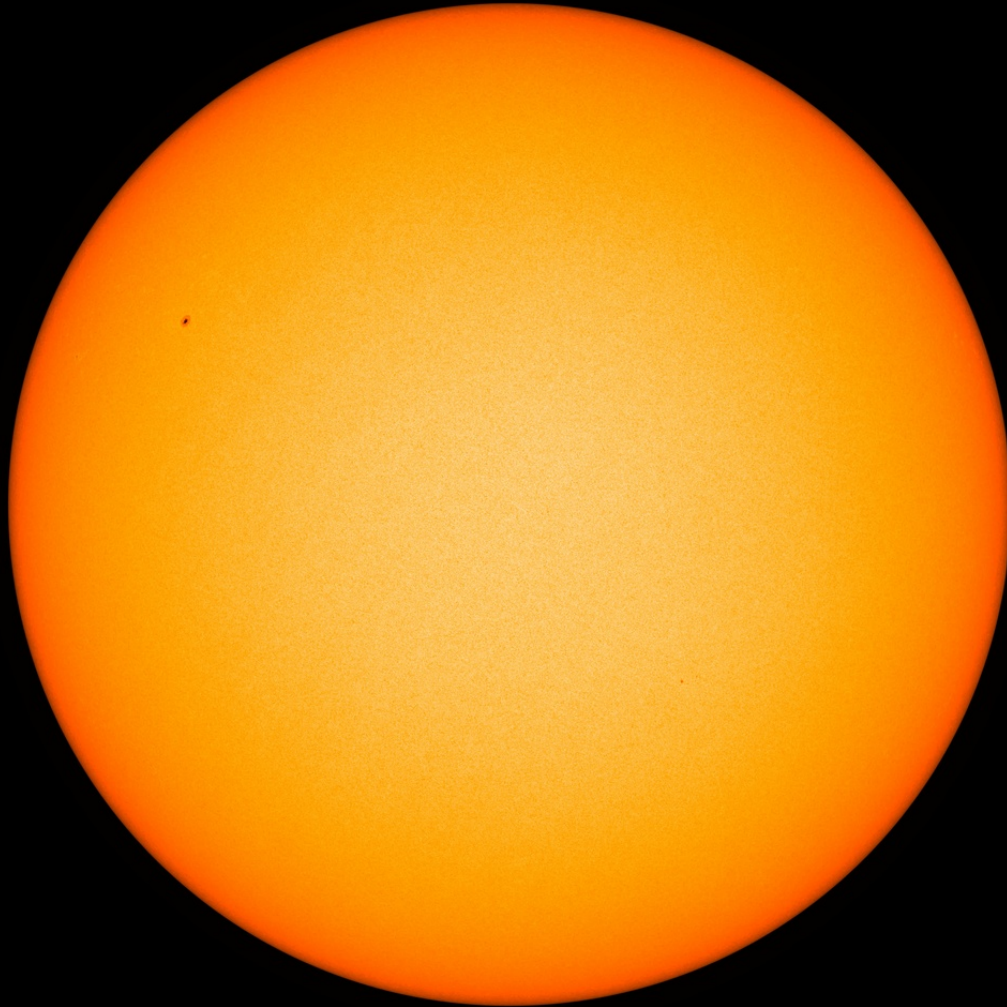
SDO/HMI Magnetogram 2021-07-12



SDO/HMI Quick-Look Magnetogram: 20210712_114500

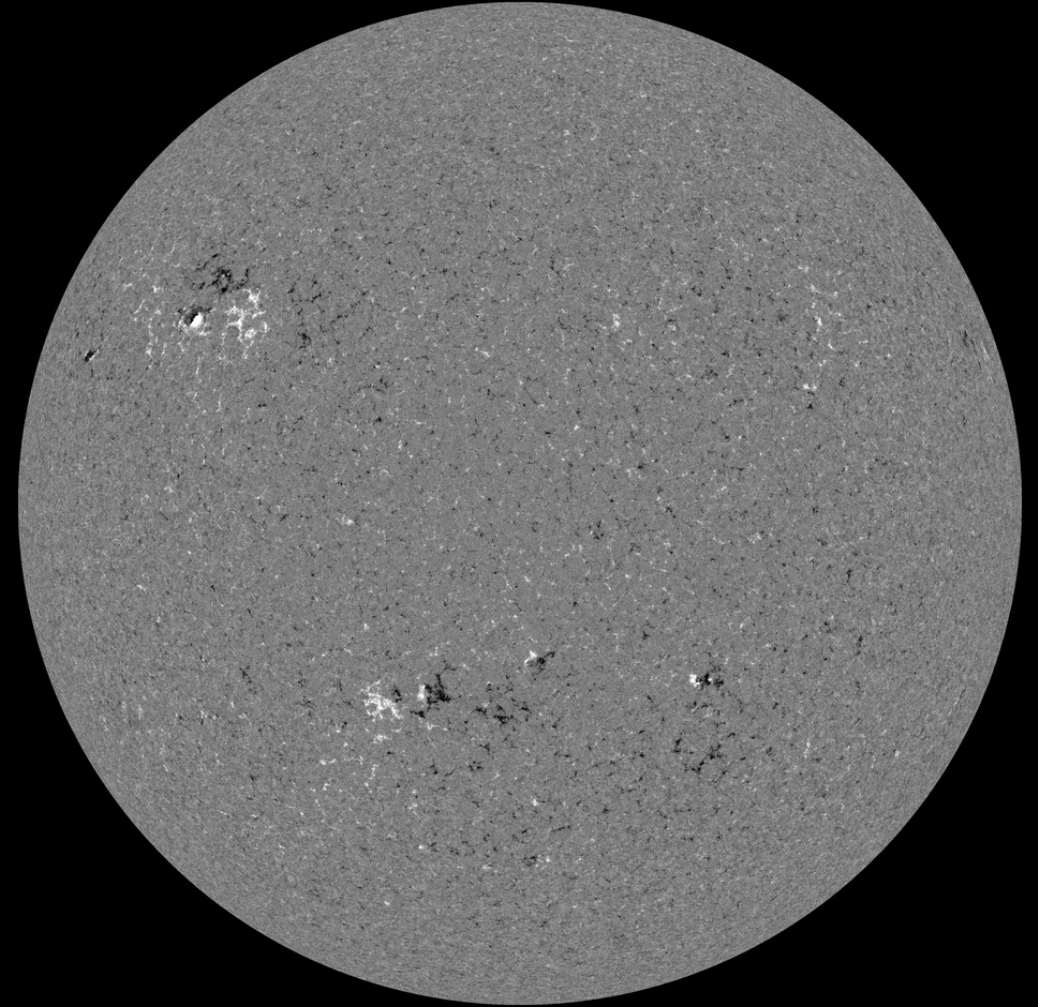
Solar active regions

SDO/HMI White Light 2021-07-13



SDO/HMI Quick-Look Continuum: 20210713_114500

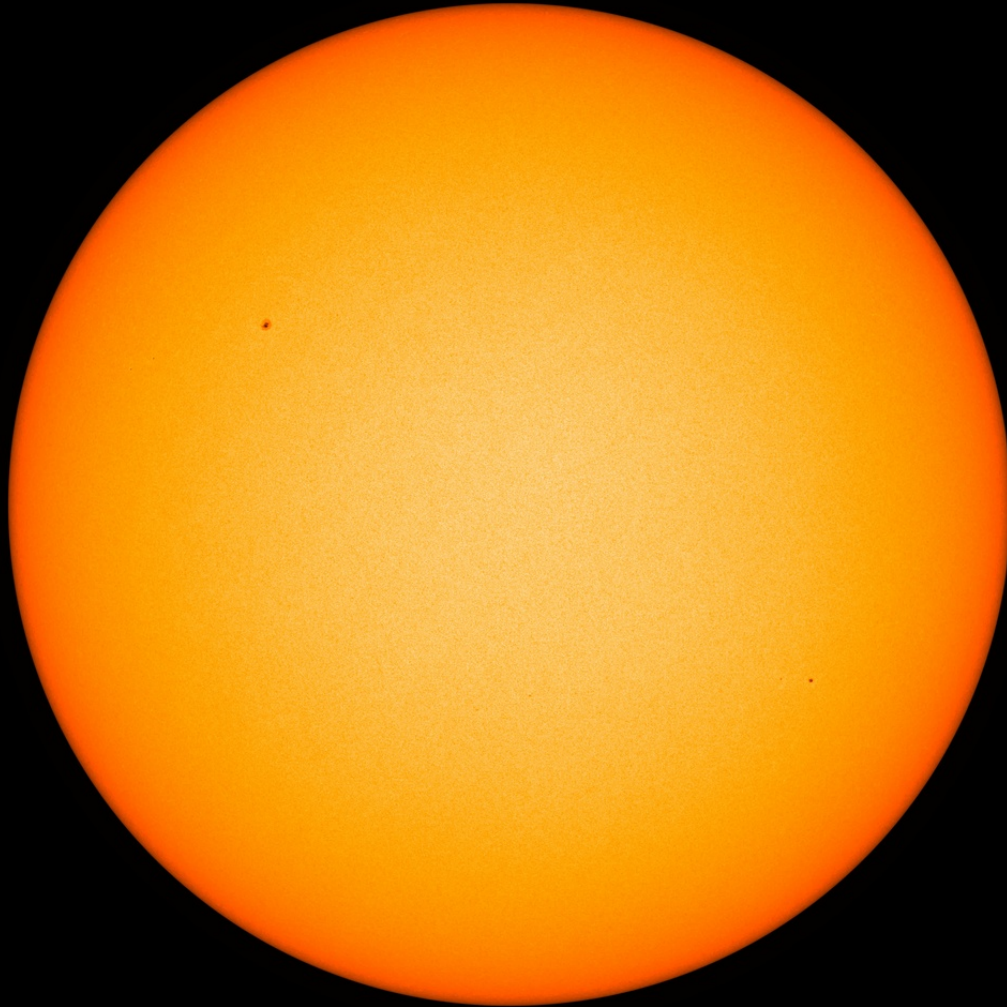
SDO/HMI Magnetogram 2021-07-13



SDO/HMI Quick-Look Magnetogram: 20210713_114500

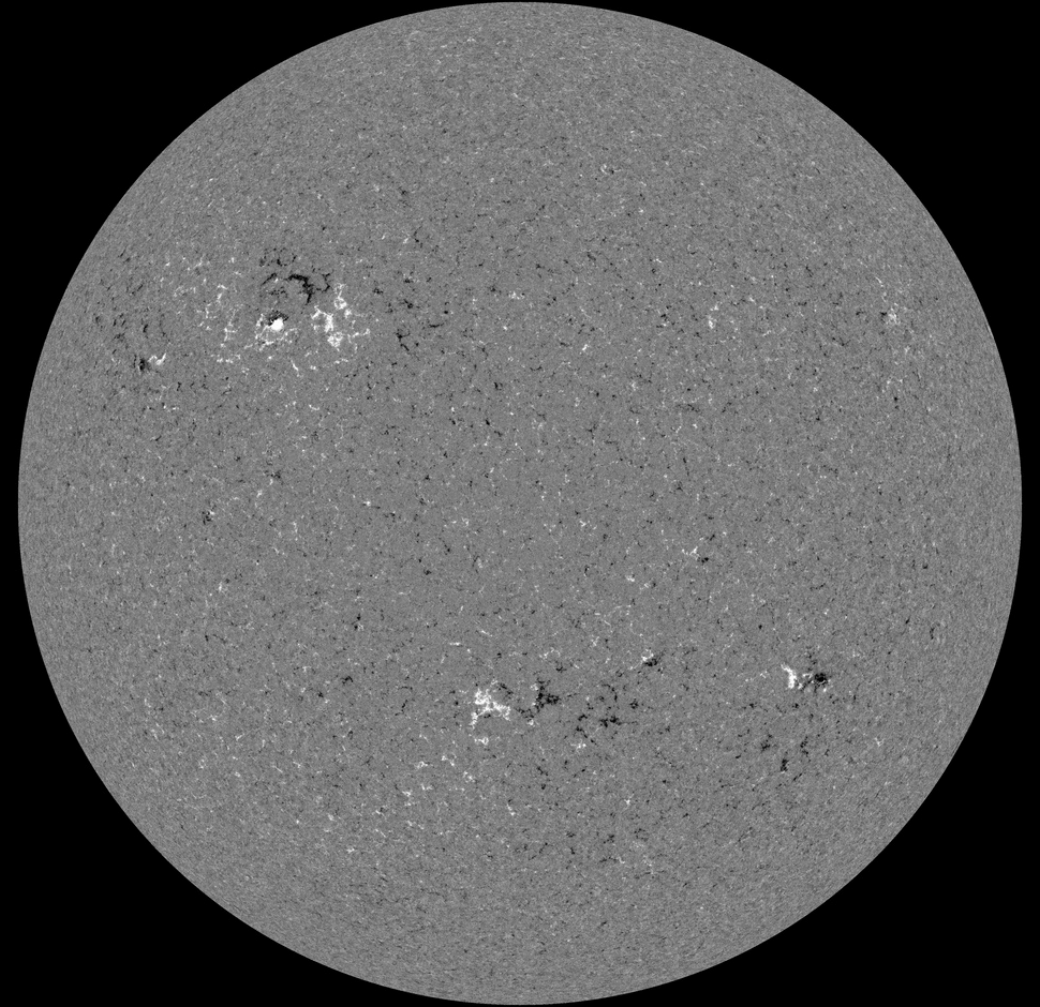
Solar active regions

SDO/HMI White Light 2021-07-14



SDO/HMI Quick-Look Continuum: 20210714_114500

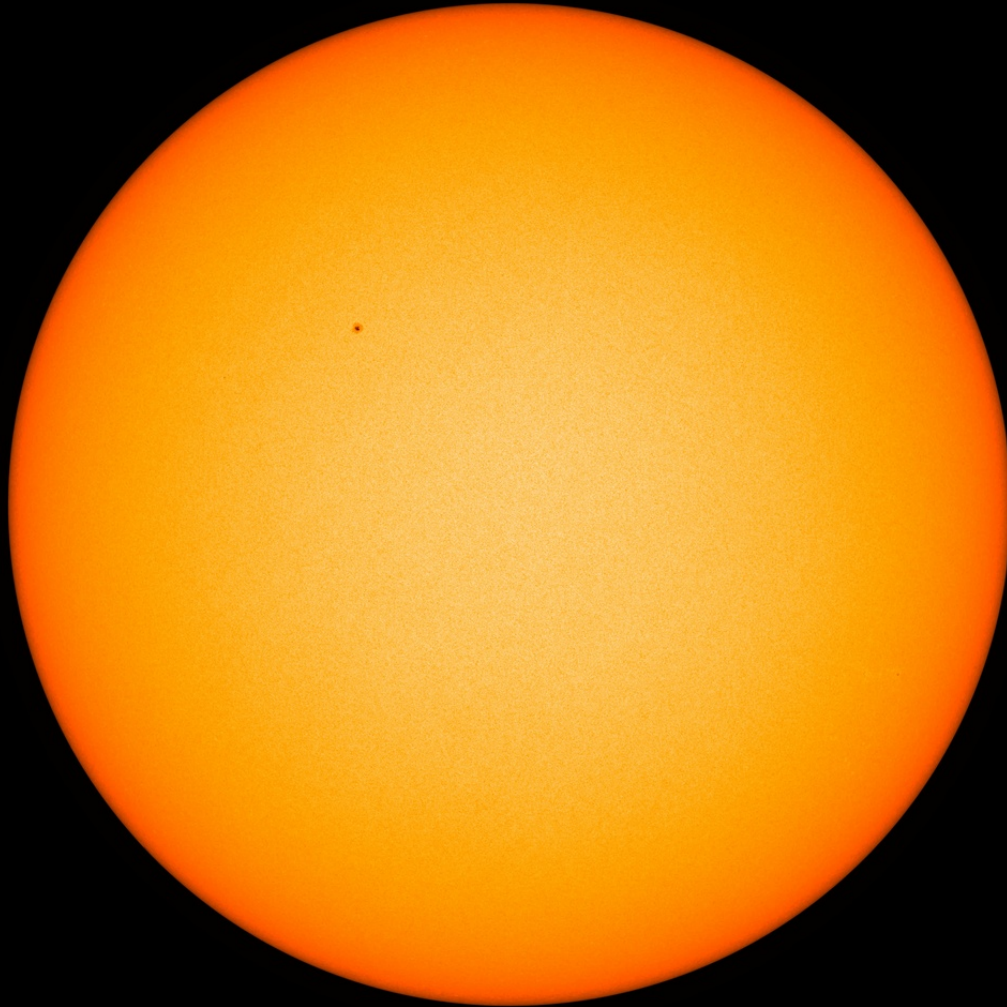
SDO/HMI Magnetogram 2021-07-14



SDO/HMI Quick-Look Magnetogram: 20210714_114500

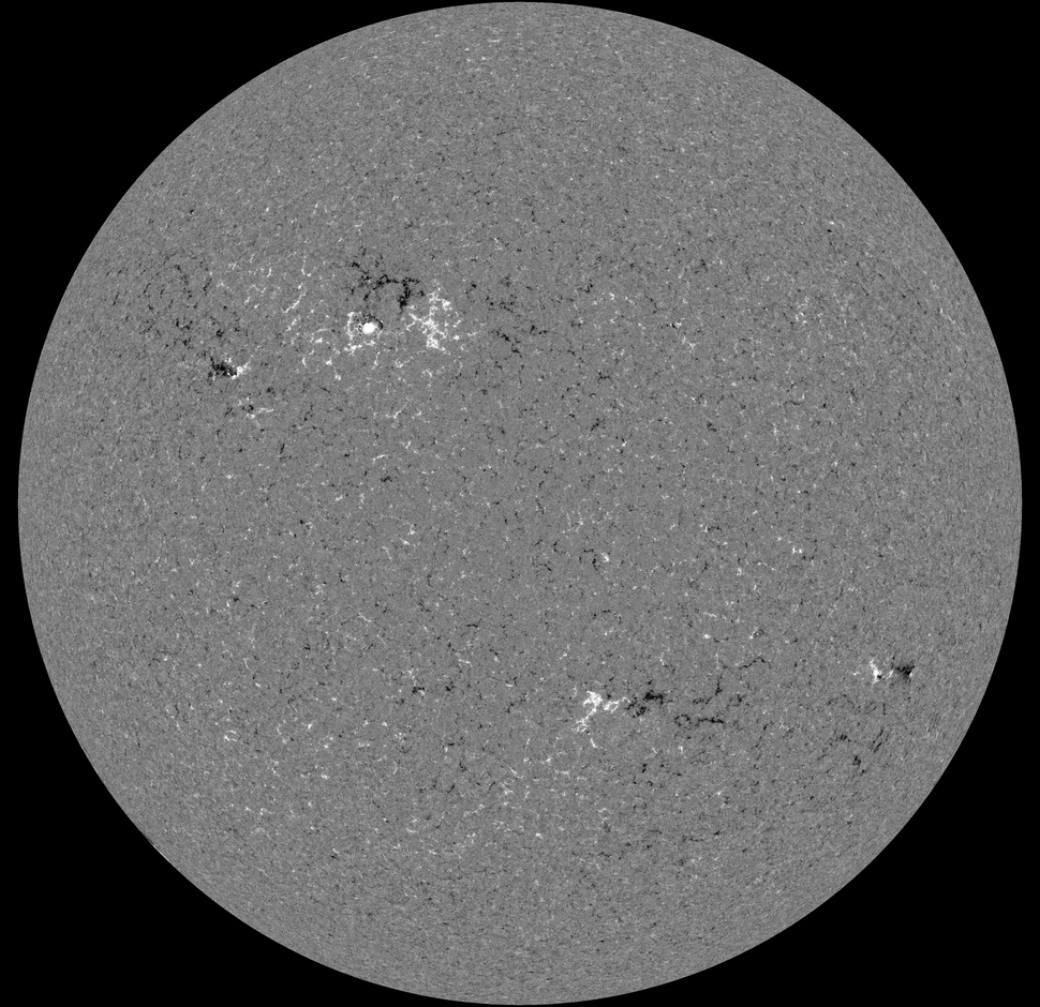
Solar active regions

SDO/HMI White Light 2021-07-15



SDO/HMI Quick-Look Continuum: 20210715_114500

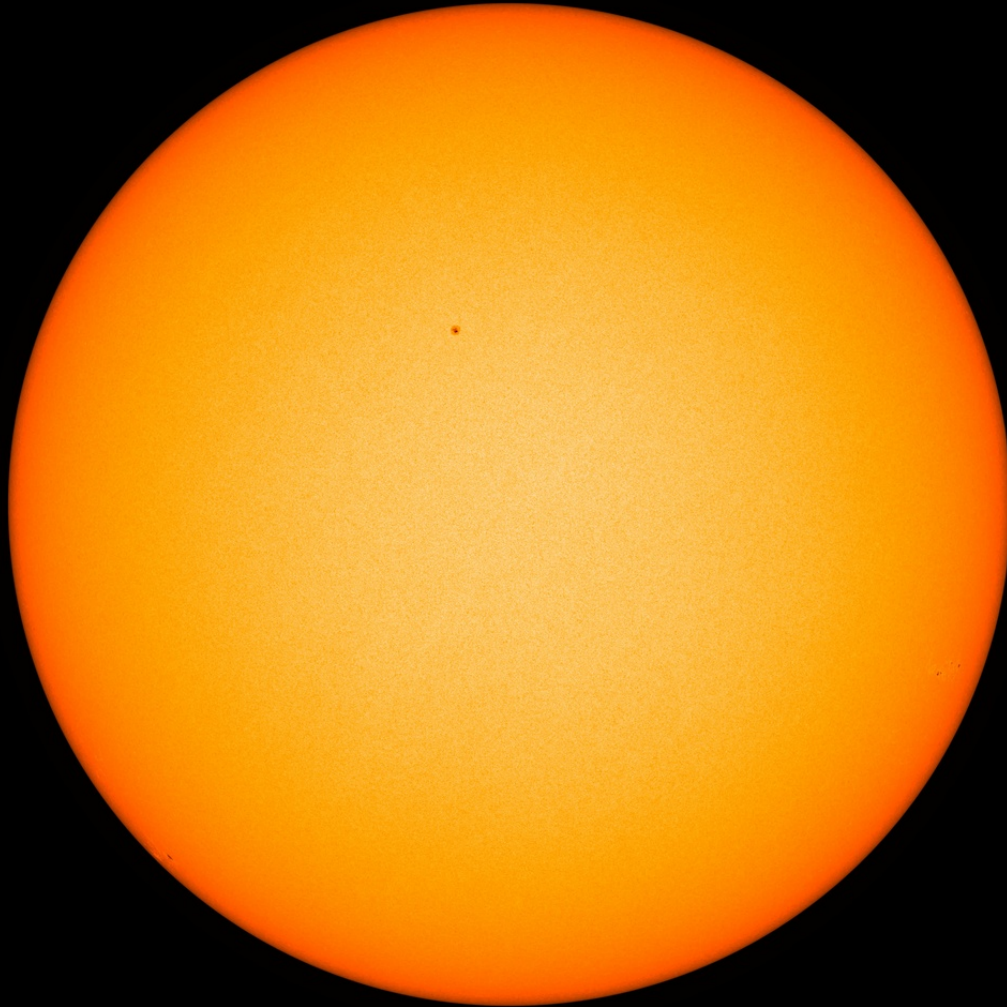
SDO/HMI Magnetogram 2021-07-15



SDO/HMI Quick-Look Magnetogram: 20210715_114500

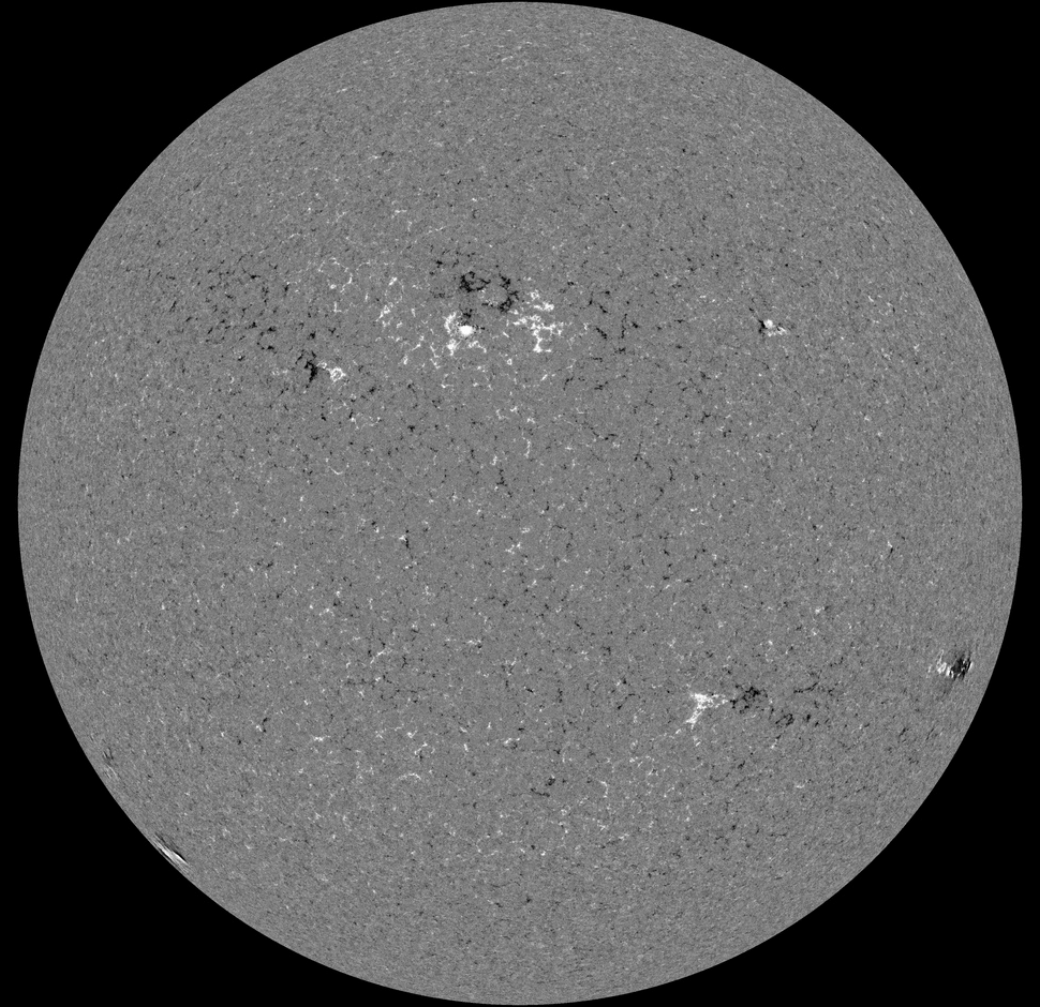
Solar active regions

SDO/HMI White Light 2021-07-16



SDO/HMI Quick-Look Continuum: 20210716_114500

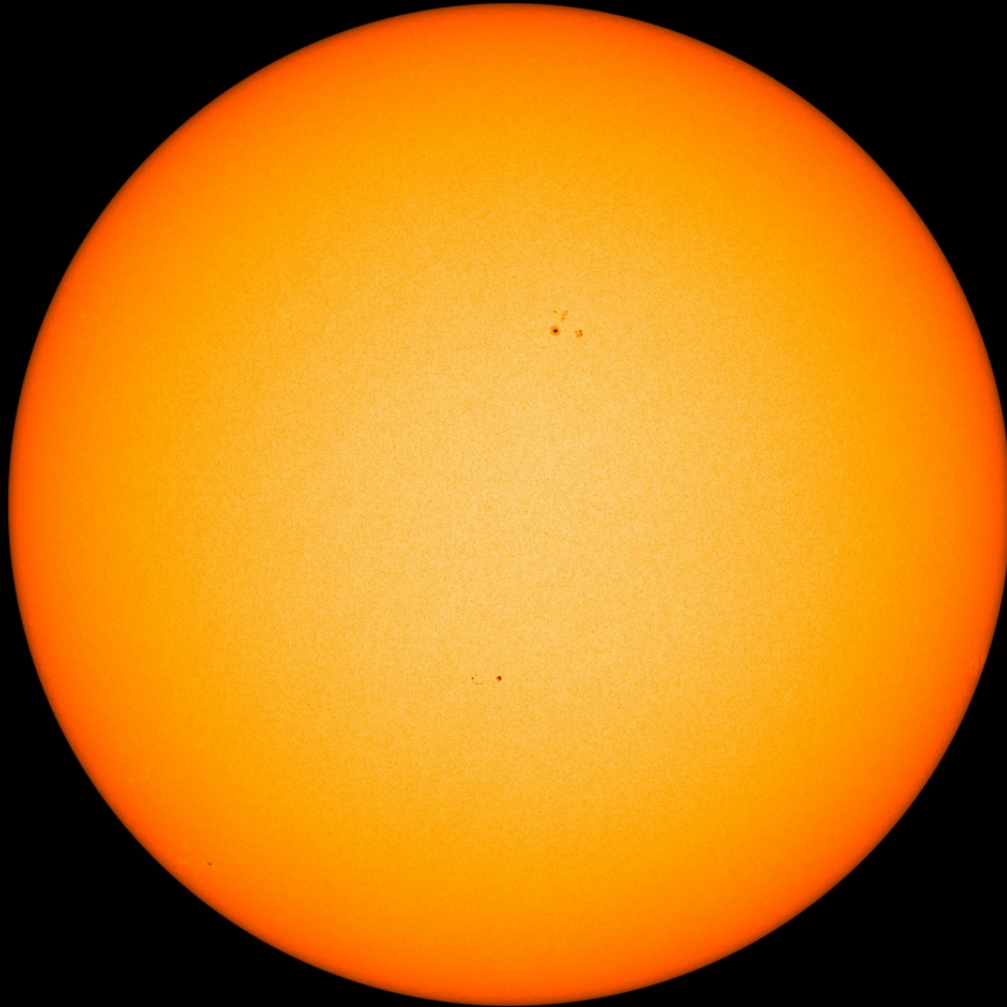
SDO/HMI Magnetogram 2021-07-16



SDO/HMI Quick-Look Magnetogram: 20210716_114500

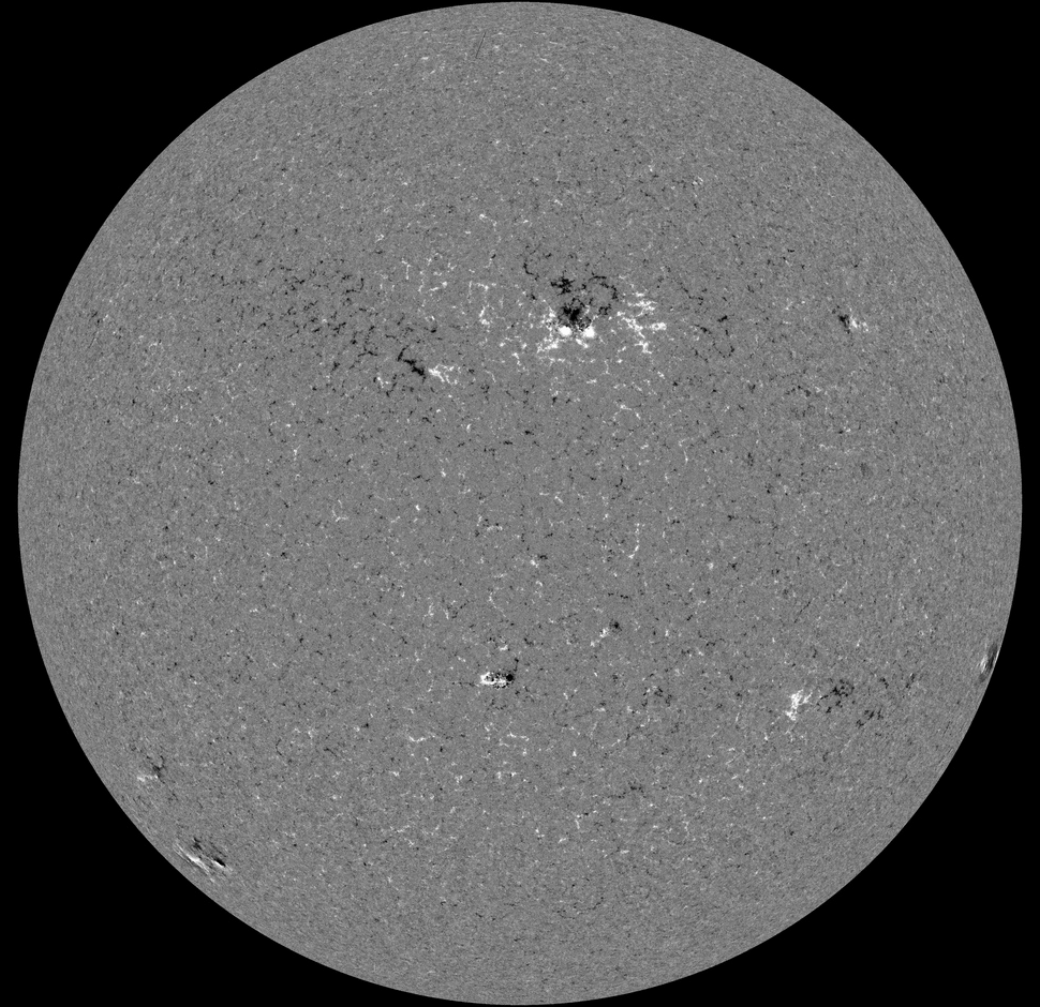
Solar active regions

SDO/HMI White Light 2021-07-17



SDO/HMI Quick-Look Continuum: 20210717_114500

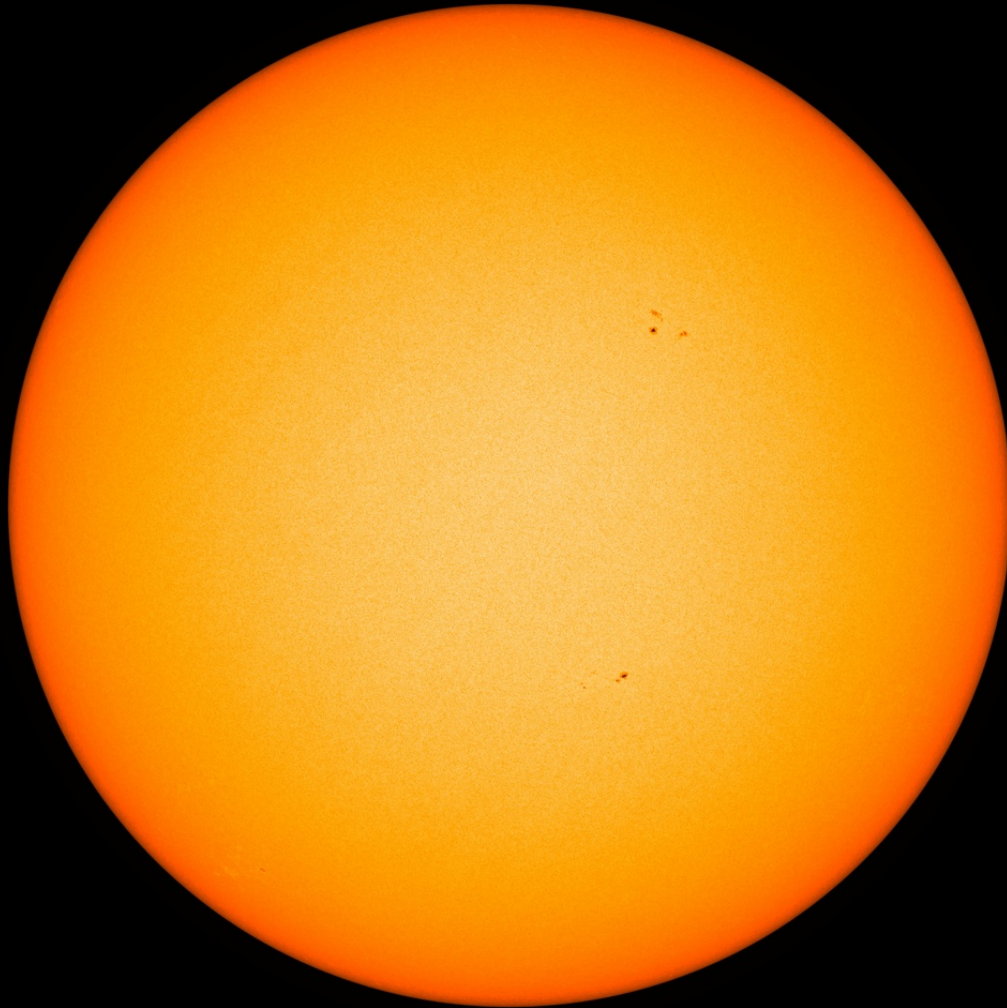
SDO/HMI Magnetogram 2021-07-17



SDO/HMI Quick-Look Magnetogram: 20210717_114500

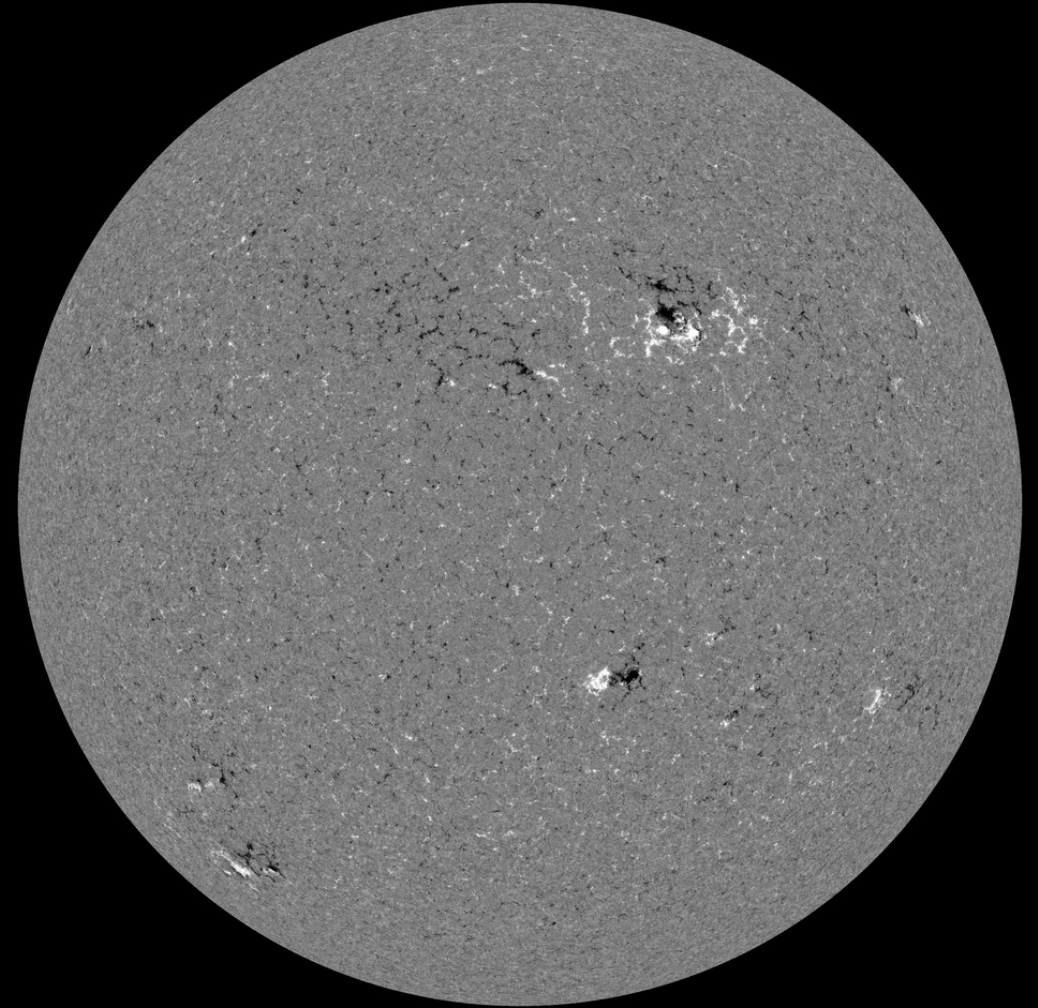
Solar active regions

SDO/HMI White Light 2021-07-18



SDO/HMI Quick-Look Continuum: 20210718_114500

SDO/HMI Magnetogram 2021-07-18

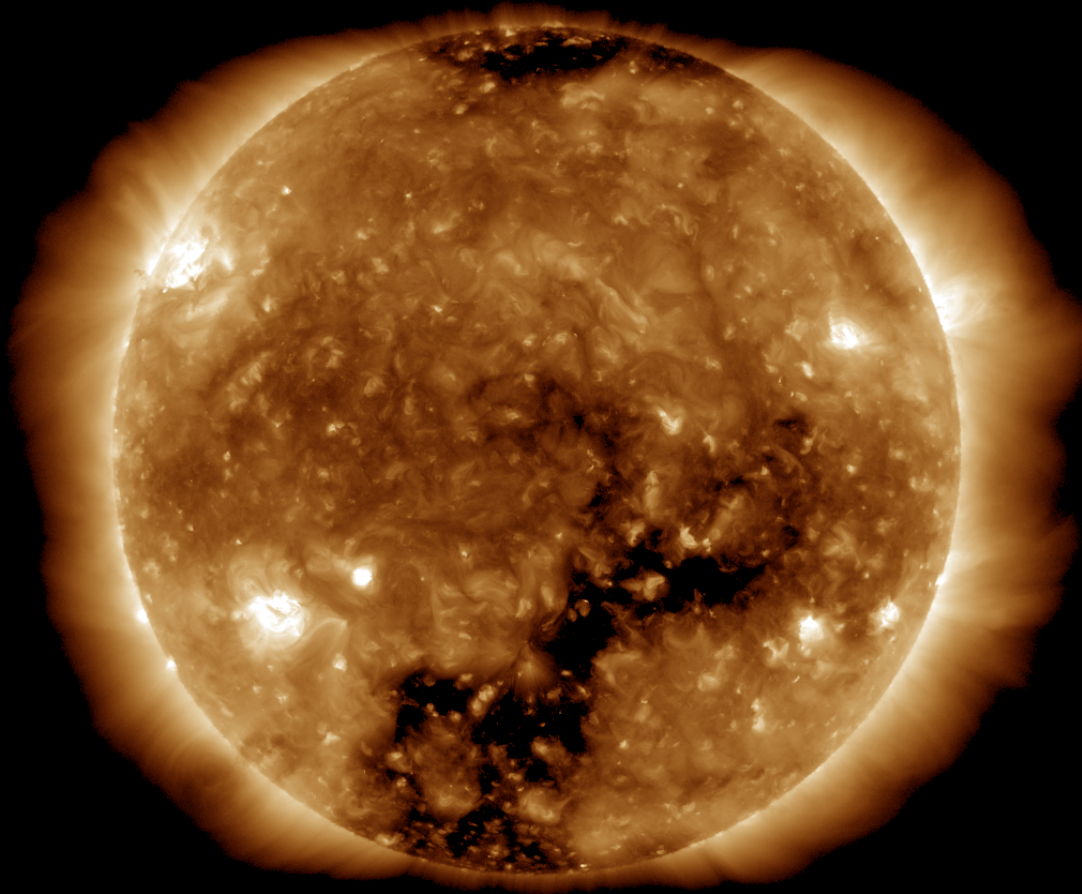


SDO/HMI Quick-Look Magnetogram: 20210718_114500

Coronal holes

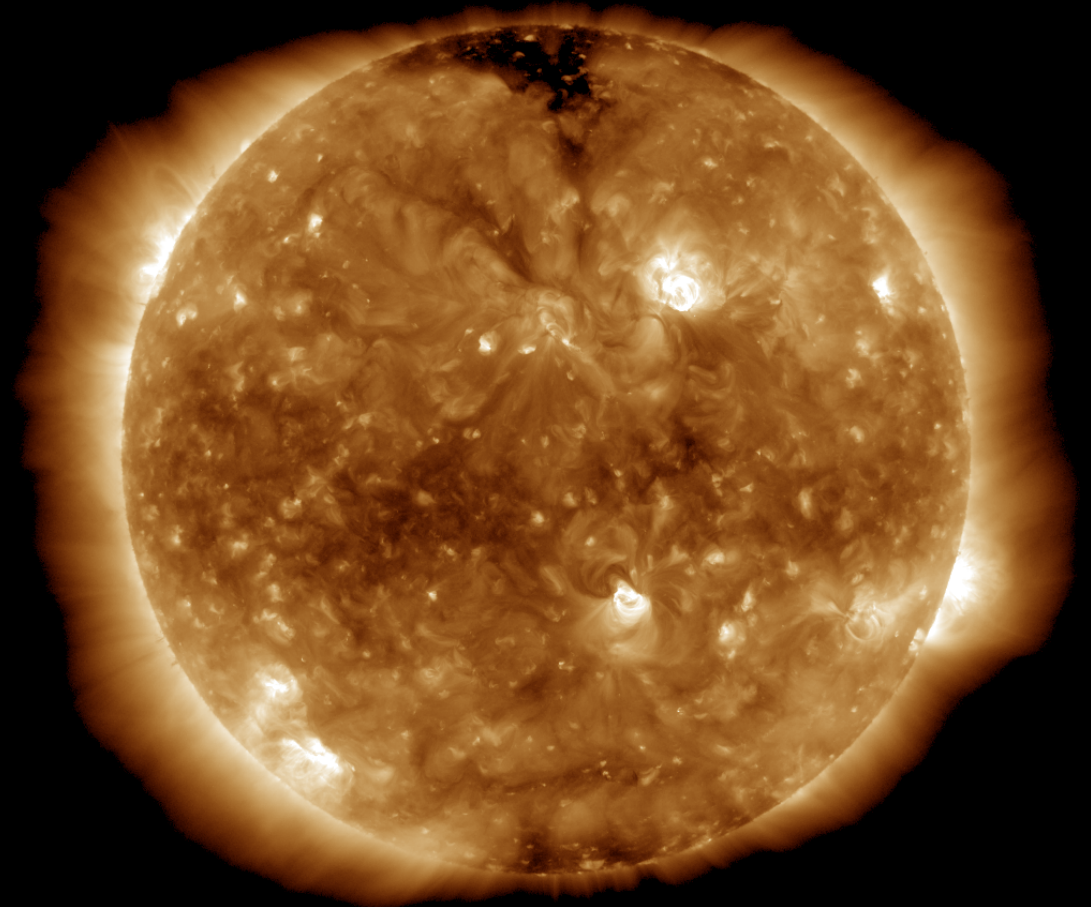
SDO/AIA 19.3 nm 2021-07-11

SDO/AIA AIA 193Å 2021-07-11T12:00:05.843



SDO/AIA 19.3 nm 2021-07-18

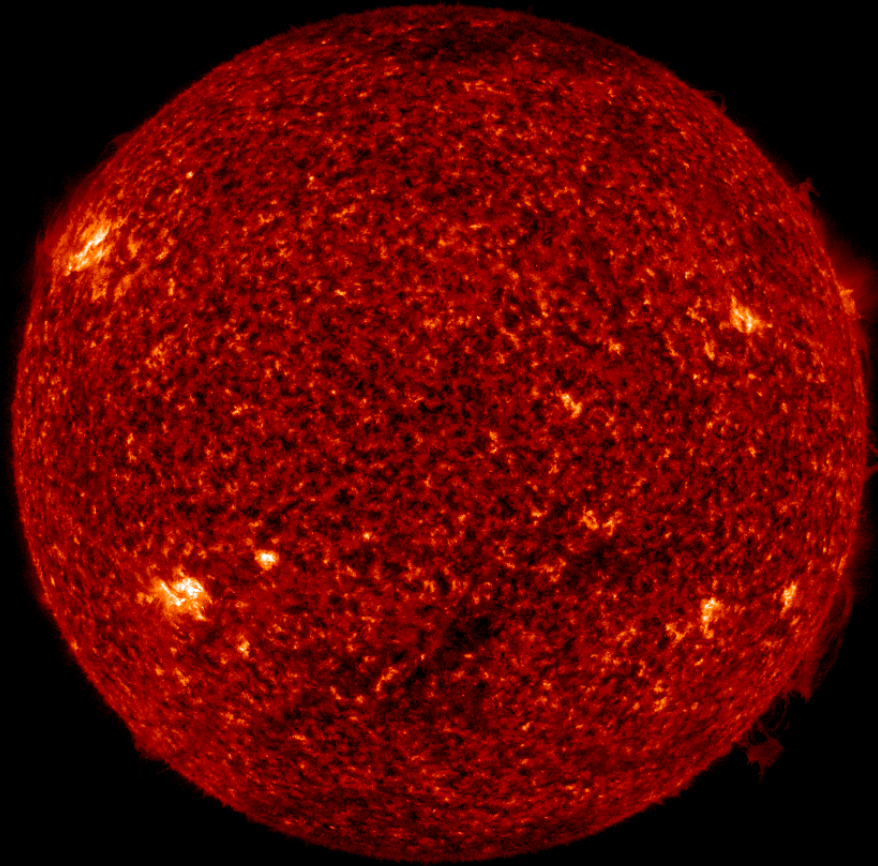
SDO/AIA AIA 193Å 2021-07-18T12:00:05.842



Filaments

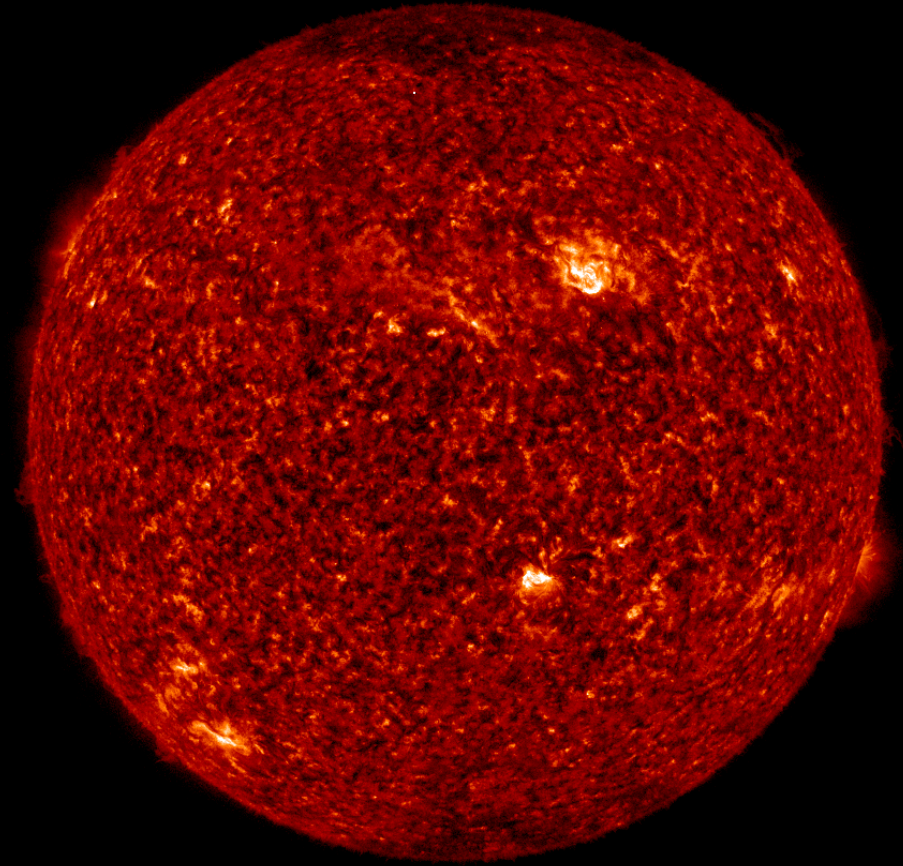
SDO/AIA 30.4 nm 2021-07-11

SDO/AIA AIA 304Å 2021-07-11T12:00:06.580

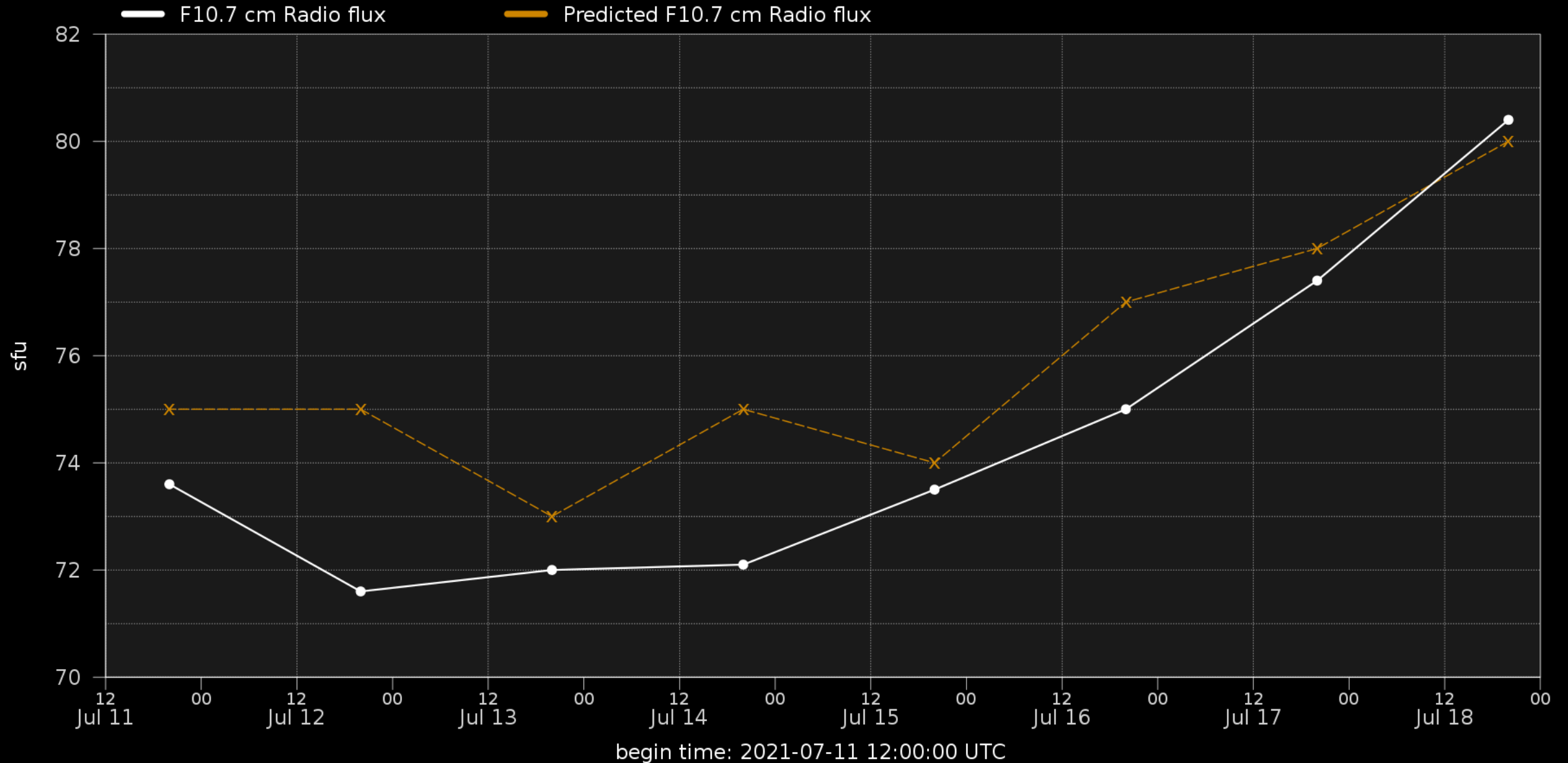


SDO/AIA 30.4 nm 2021-07-18

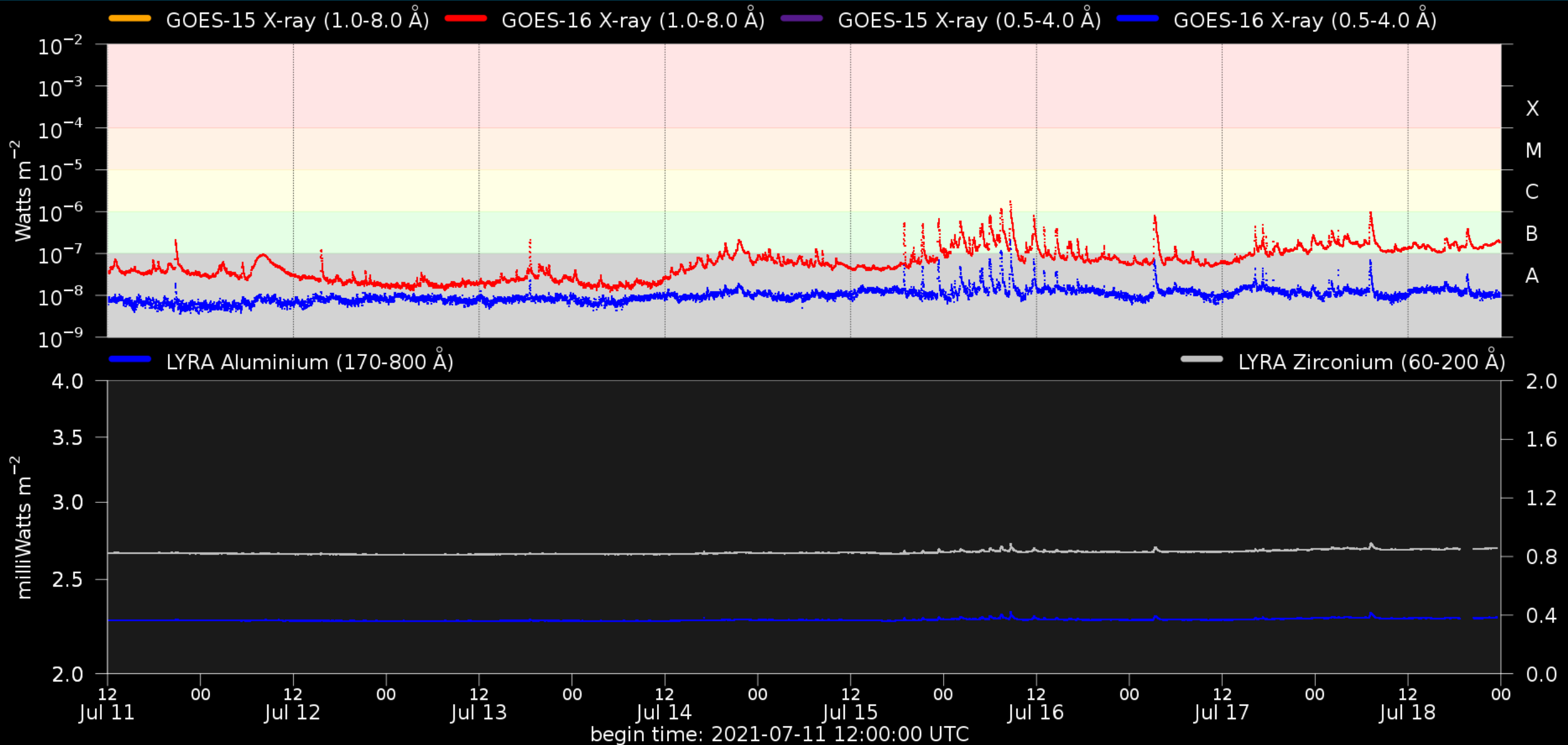
SDO/AIA AIA 304Å 2021-07-18T12:00:06.580



Solar F10.7cm radio flux



Solar X-Ray and UV flux



Solar Wind and

Geomagnetic Activity



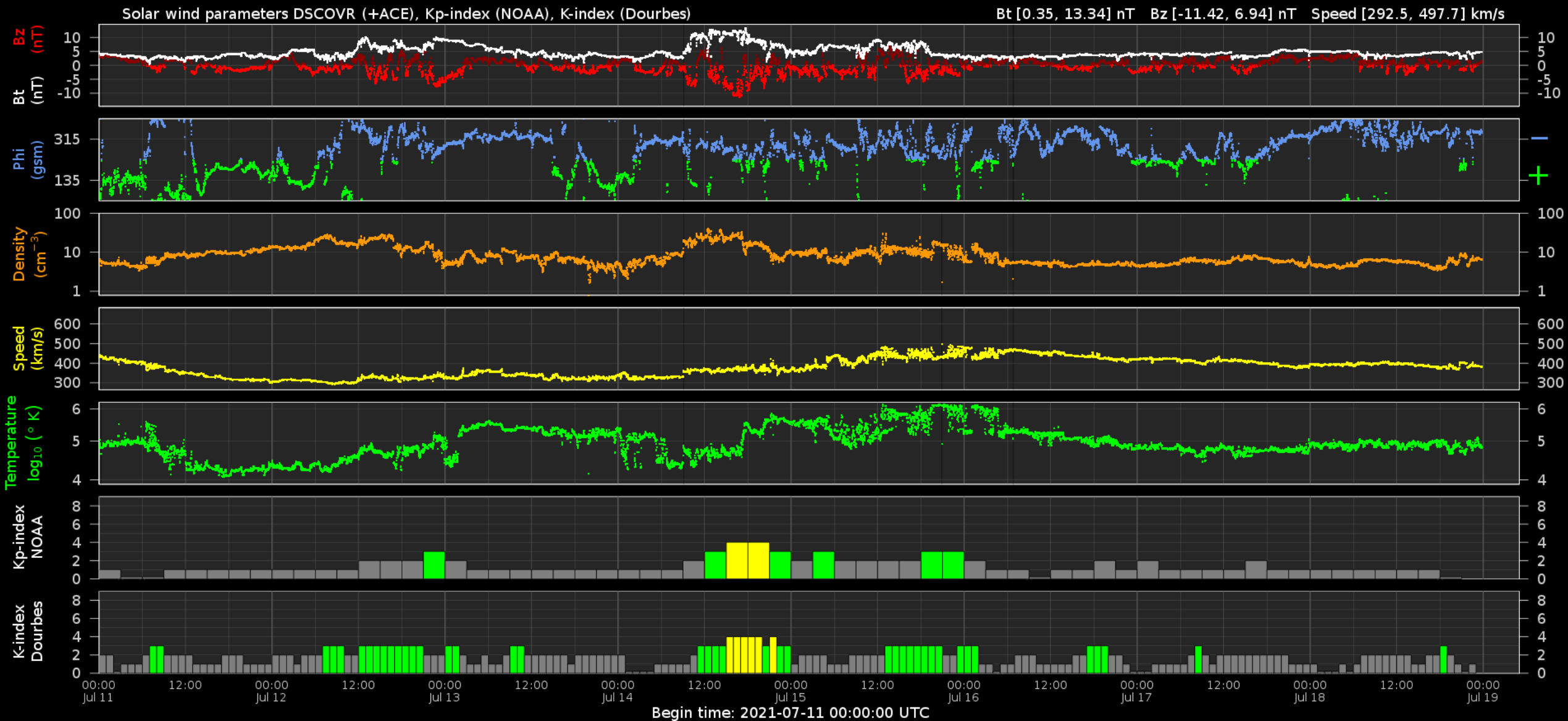
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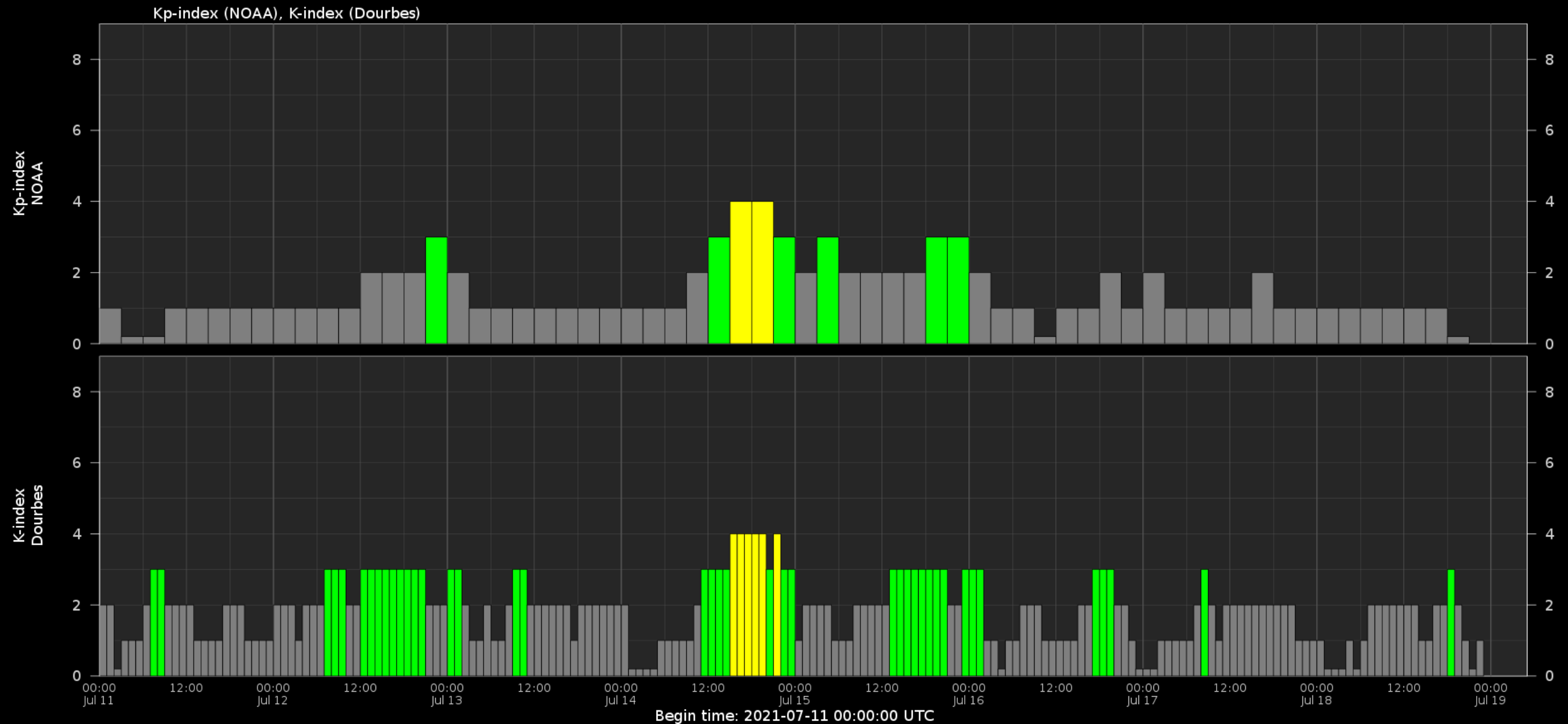
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



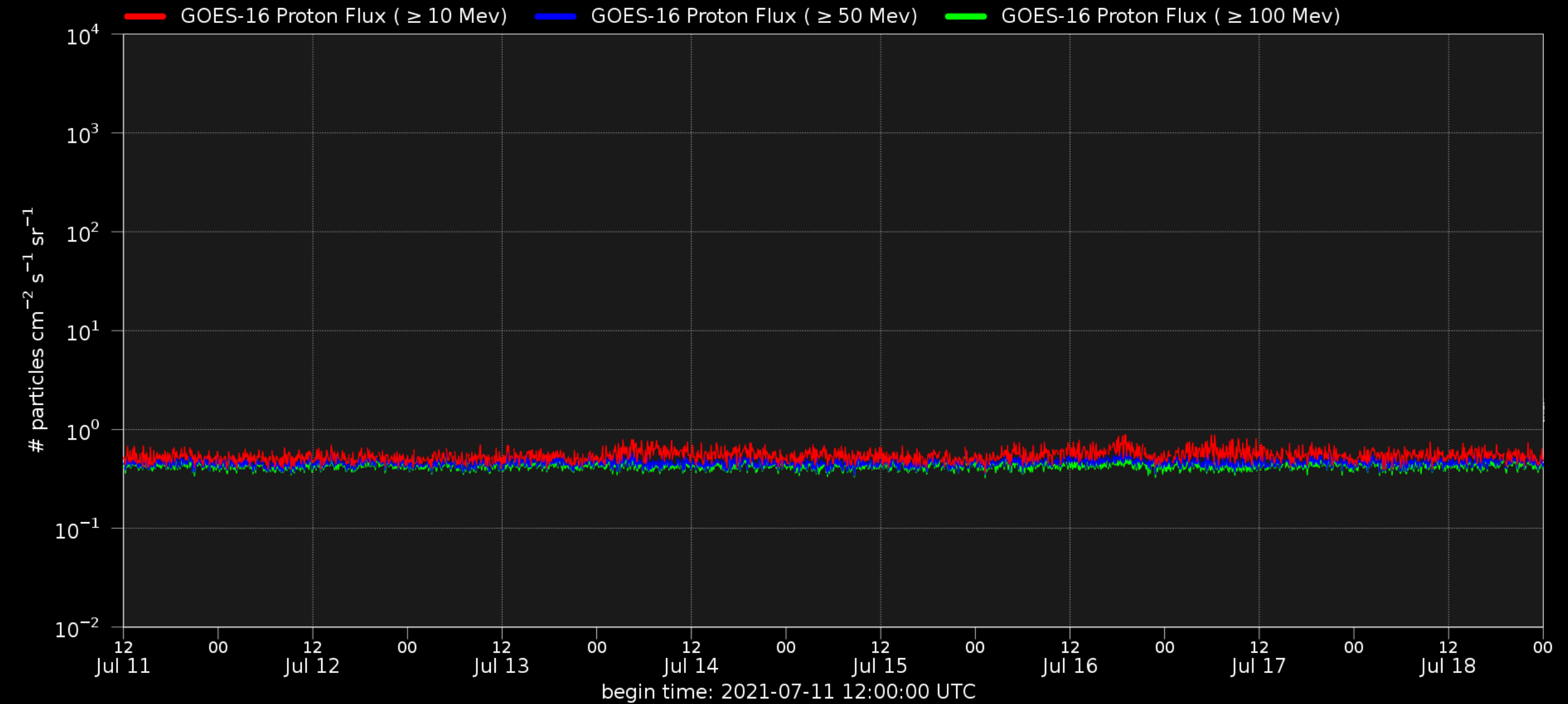
Energetic Particles



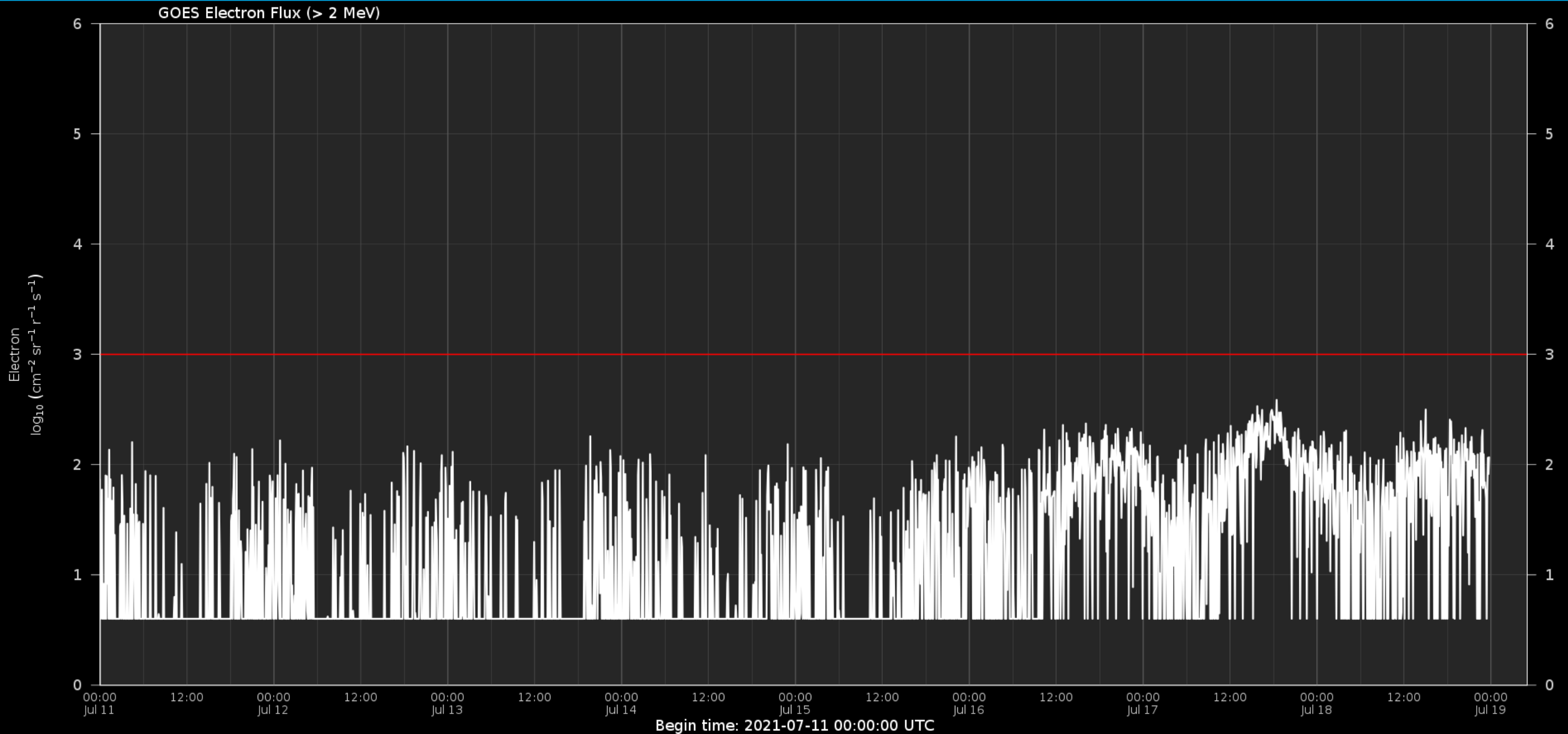
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Solar proton flux



Electron flux at GEO



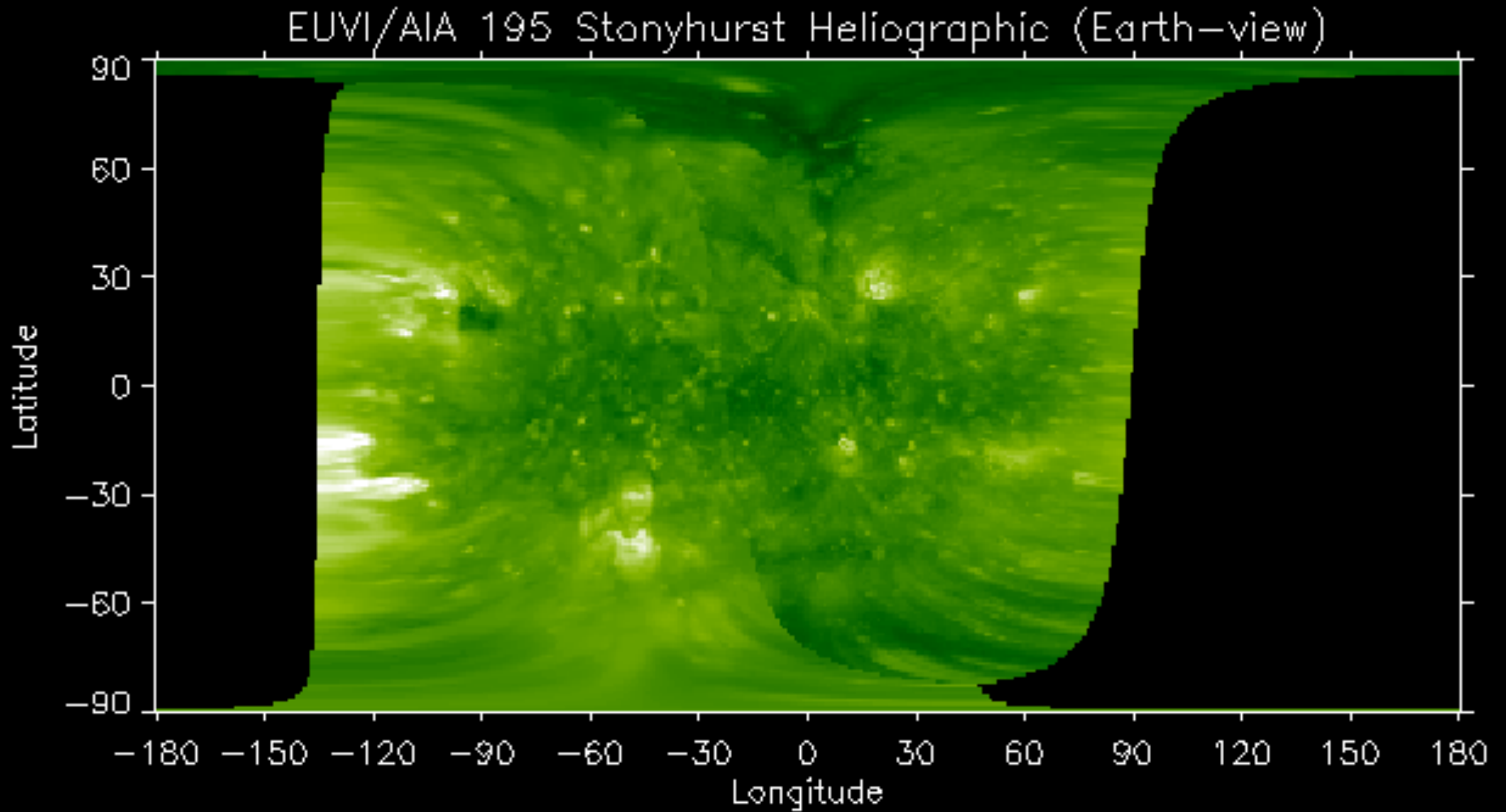
Outlook



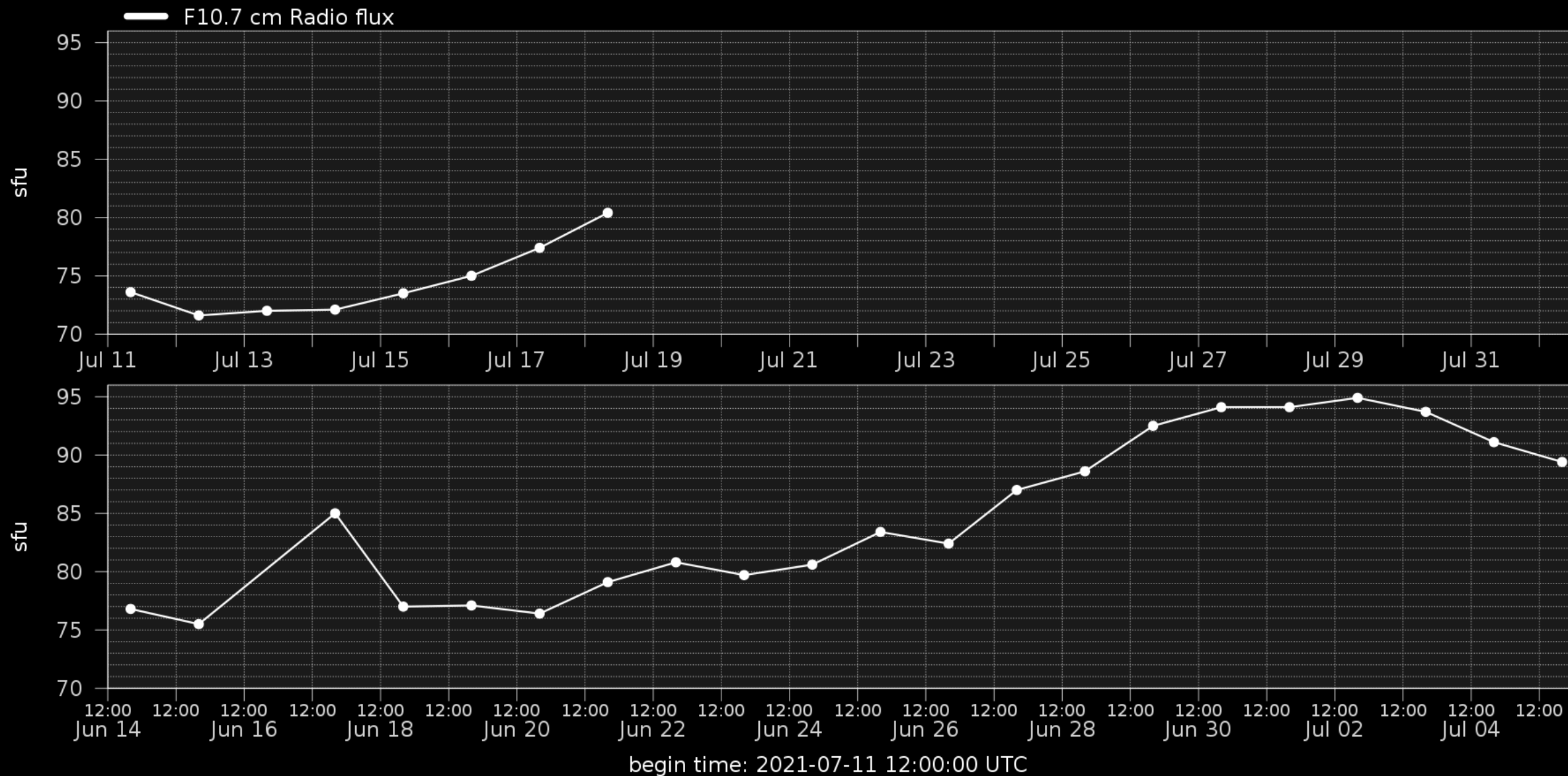
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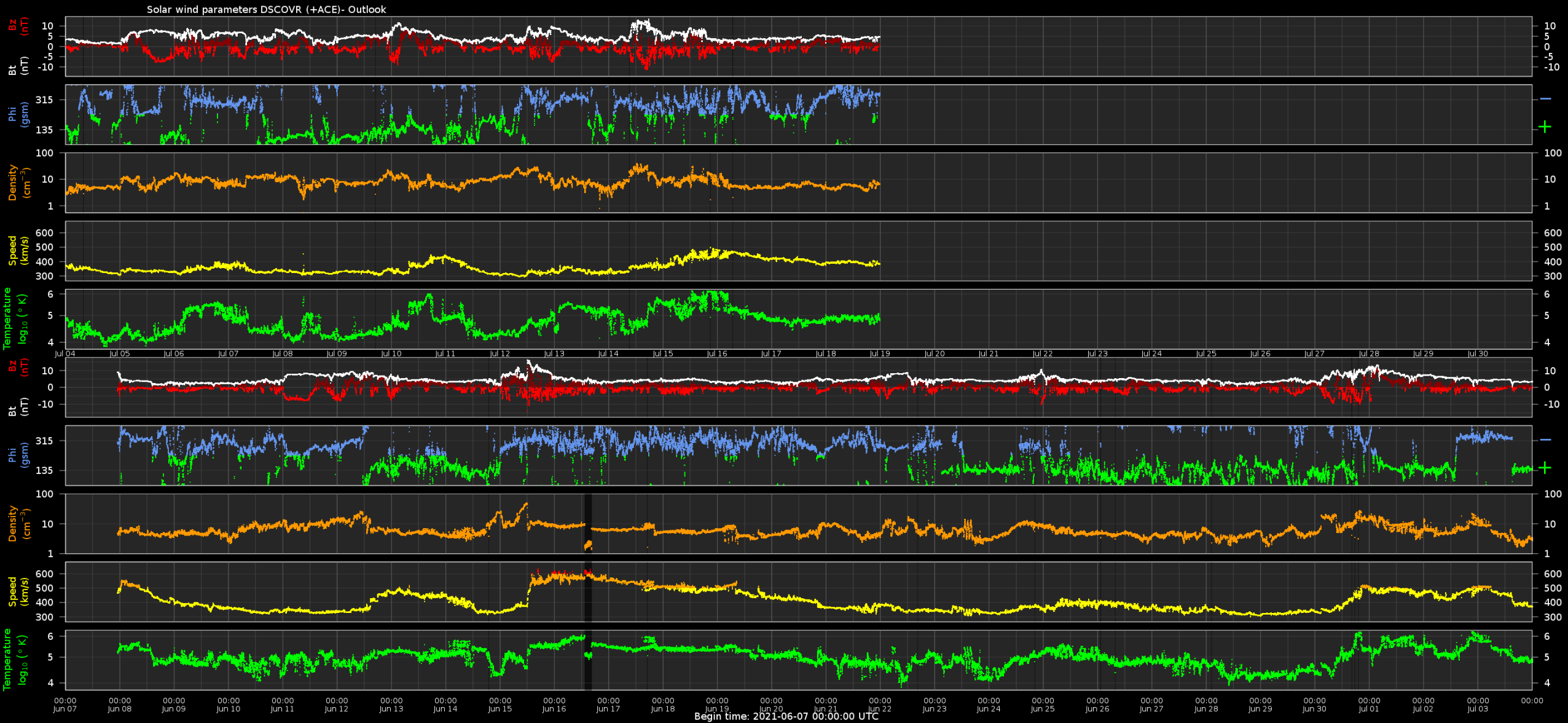
Outlook: Solar activity



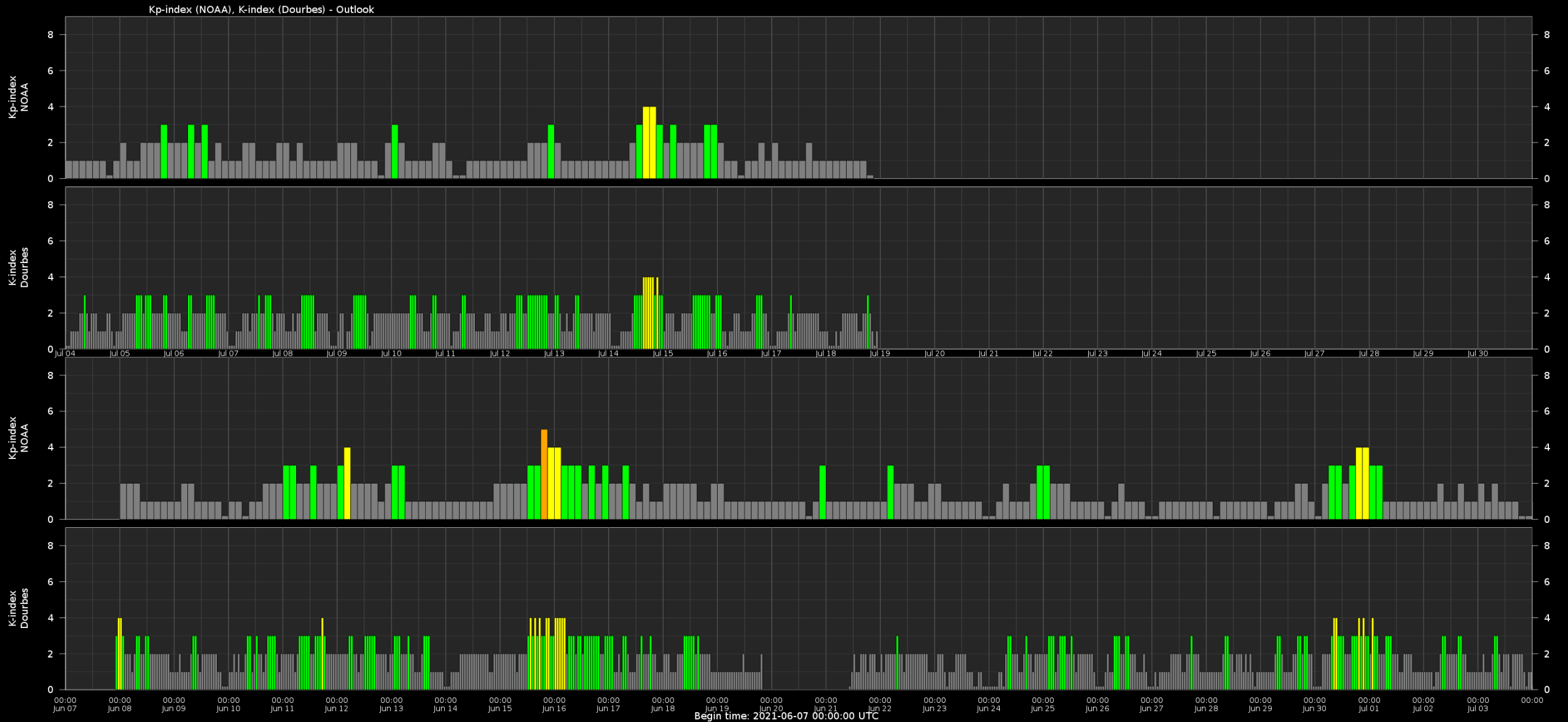
Outlook: Solar F10.7cm radio flux



Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



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See you at our next briefing!

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