

SIDC Space Weather Briefing

13 June 2021 - 20 June 2021

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& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2021-06-13 12:00 to 2021-06-20 23:59

Active regions	NOAA 2832, NOAA 2833 and NOAA 2834
Flares	# C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filament eruptions	NONE
Coronal Holes	Patchy extension of northern polar CH-

Proton flux	QUIET
Electron flux	th th

Solar Activity

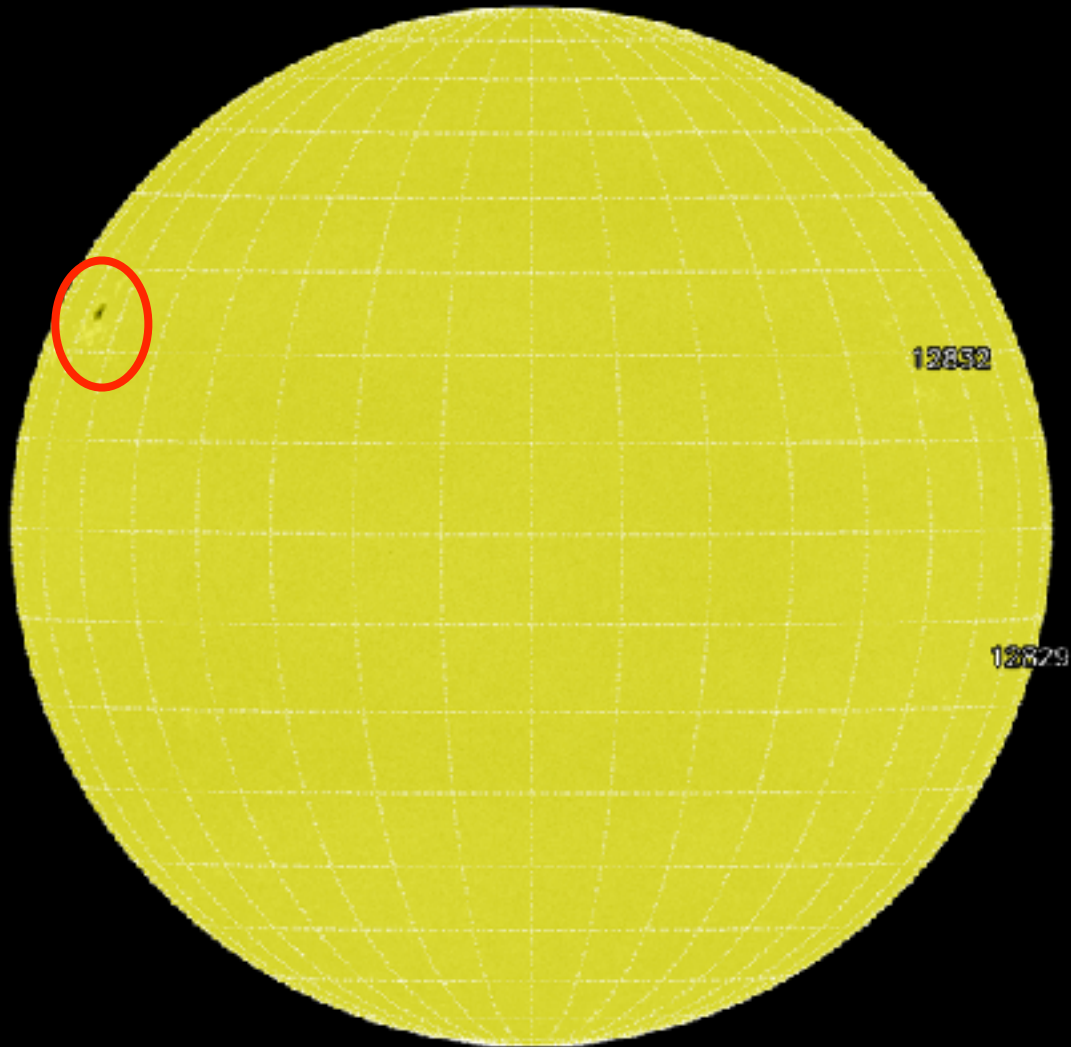


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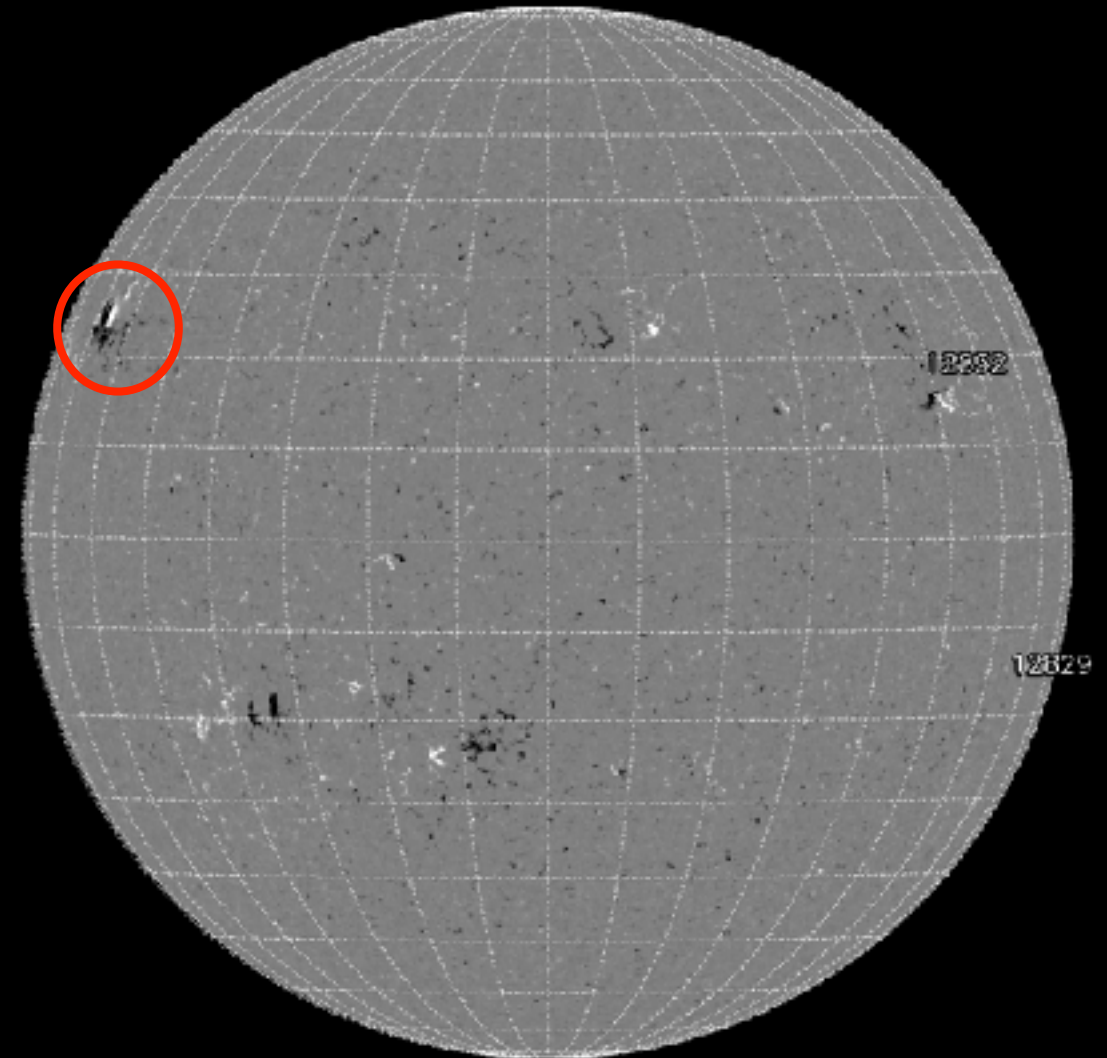
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Solar active regions

SDO/HMI 617.3nm 2021-06-13

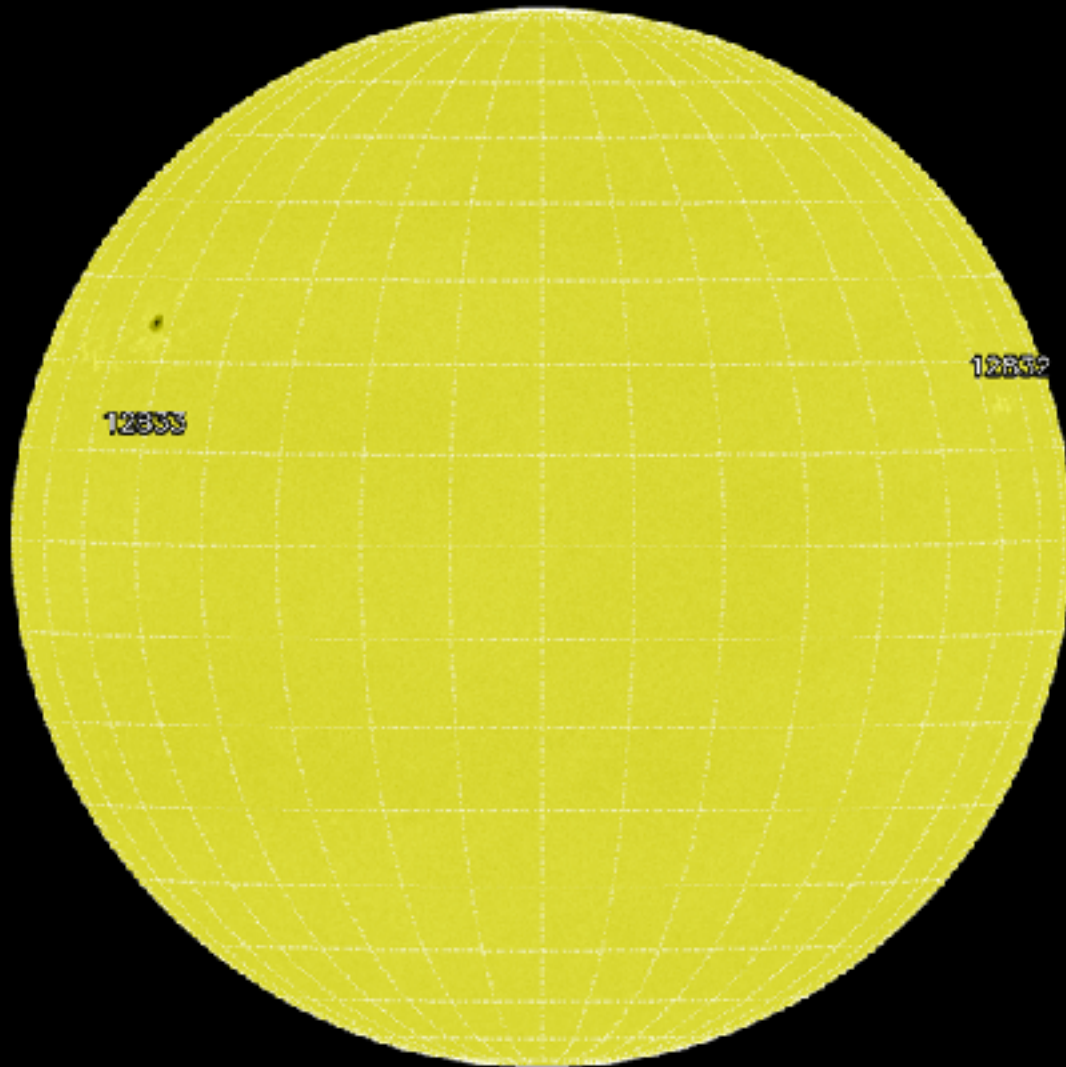


SDO/HMI Magnetogram 2021-06-13

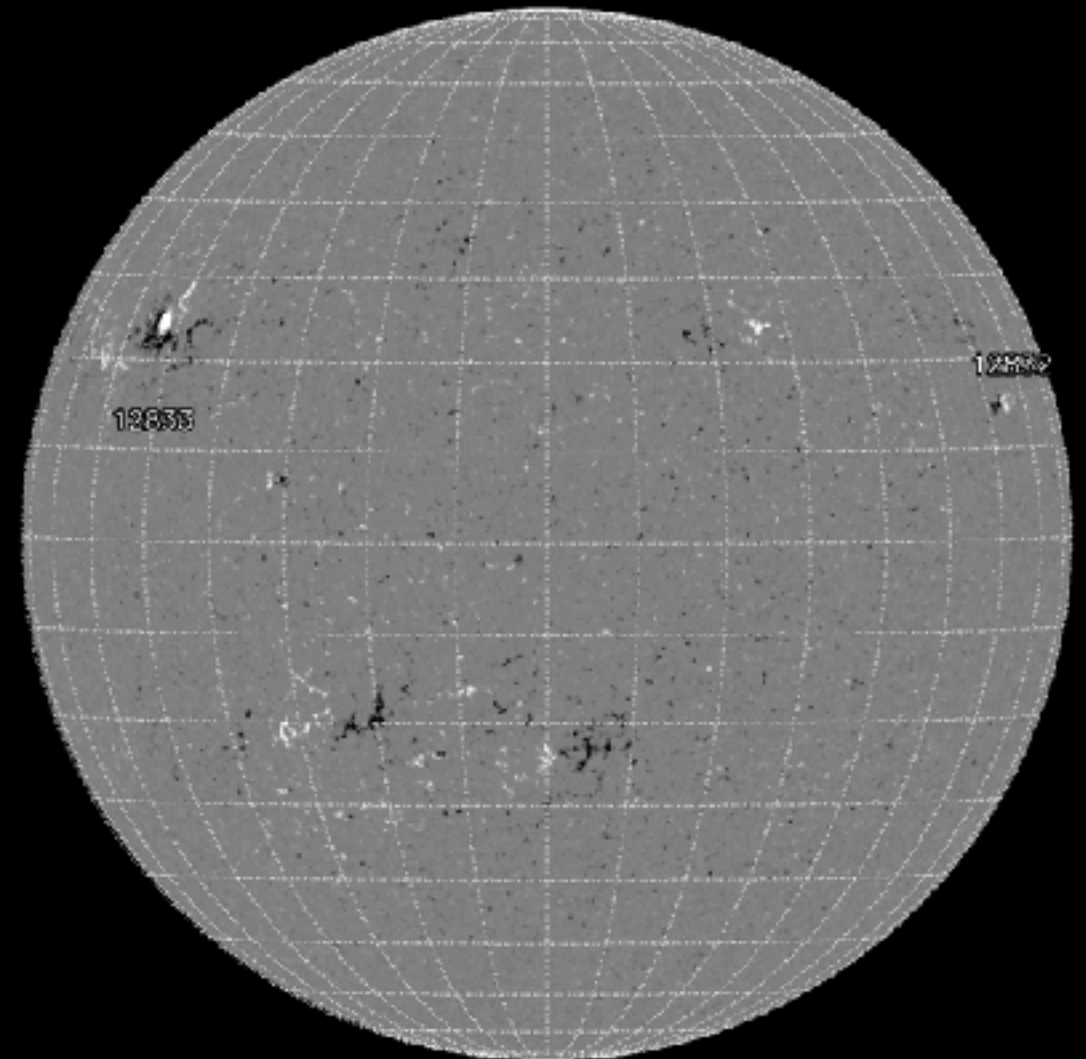


Solar active regions

SDO/HMI 617.3nm 2021-06-14

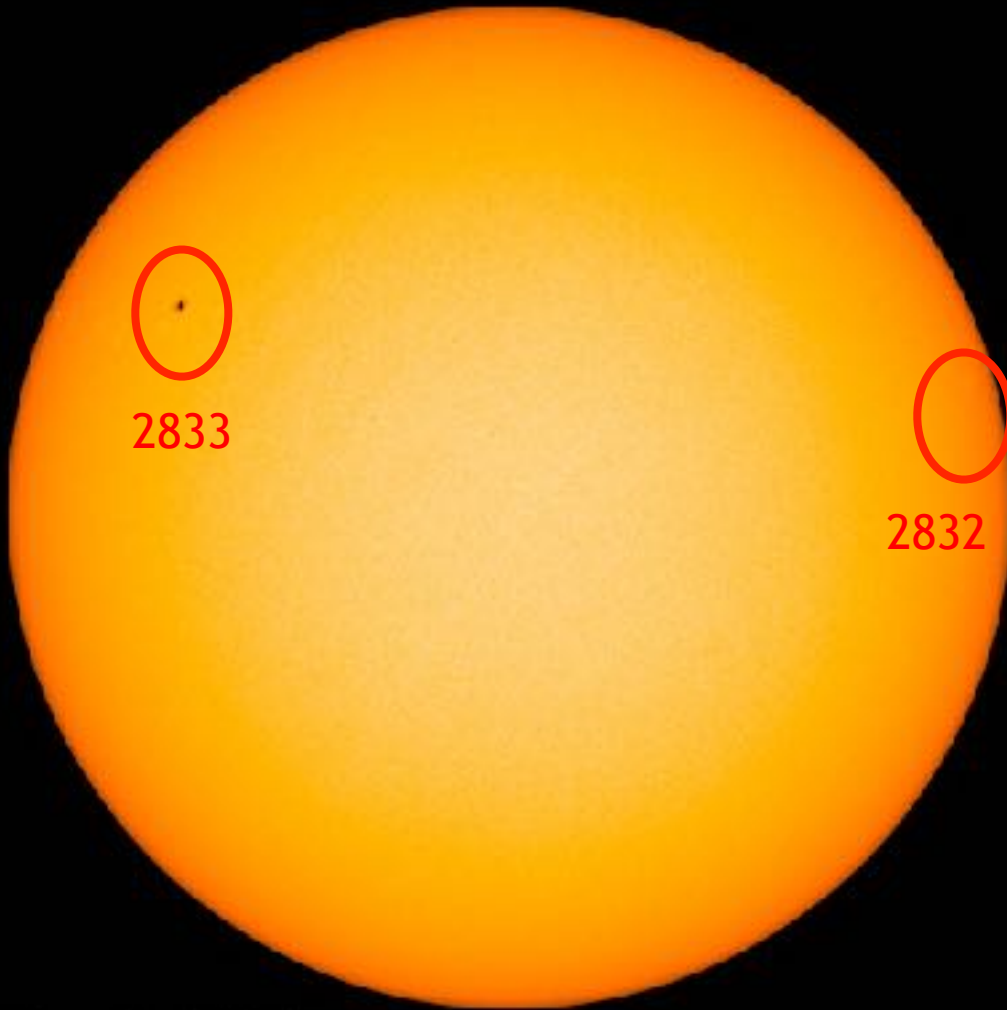


SDO/HMI Magnetogram 2021-06-14

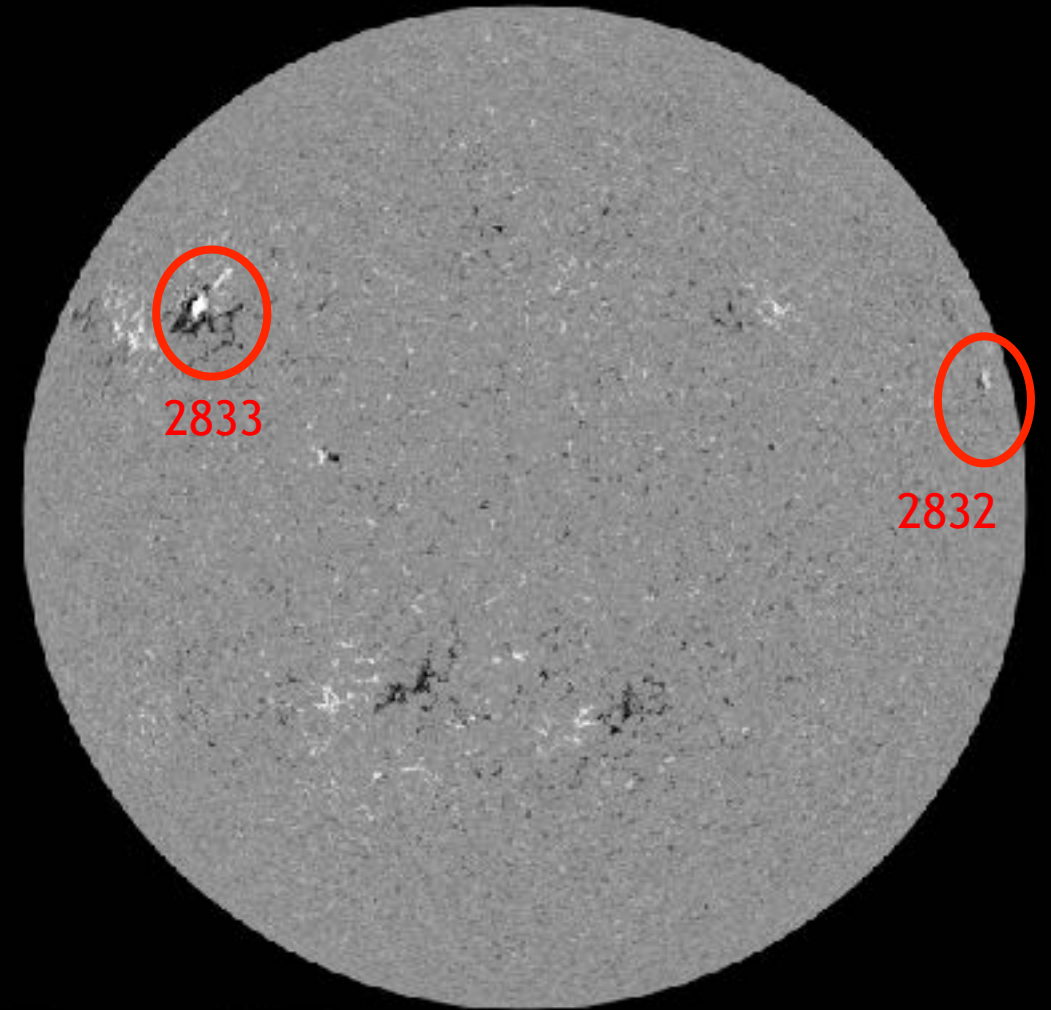


Solar active regions

SDO/HMI White Light 2021-06-15

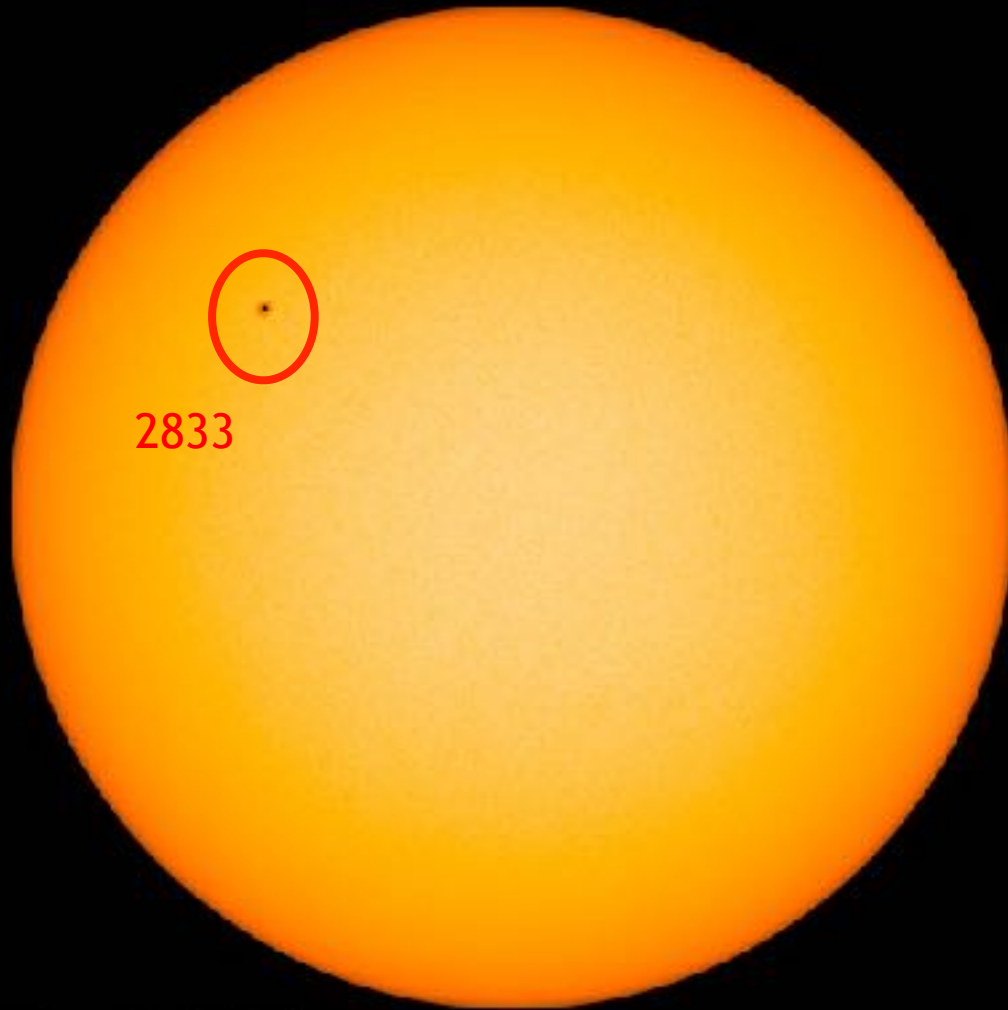


SDO/HMI Magnetogram 2021-06-15

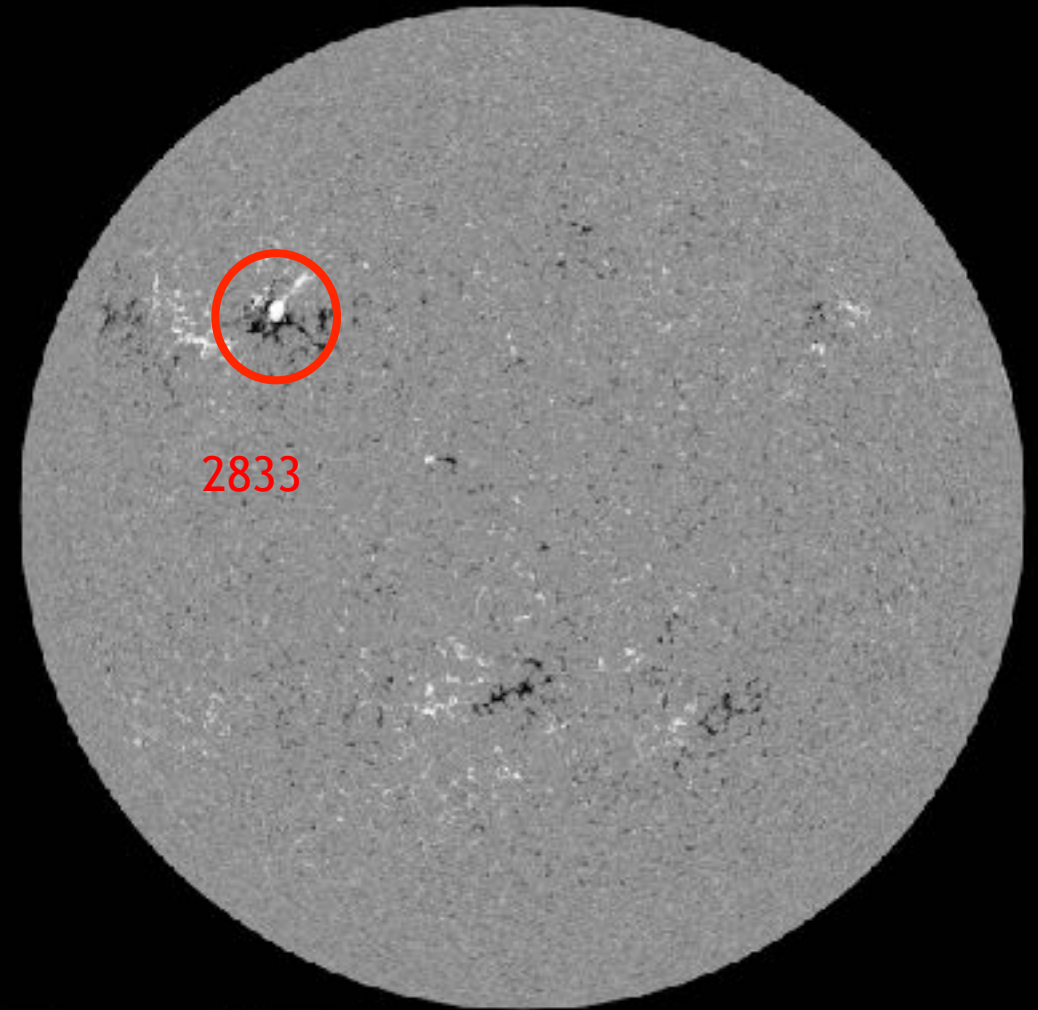


Solar active regions

SDO/HMI White Light 2021-06-16

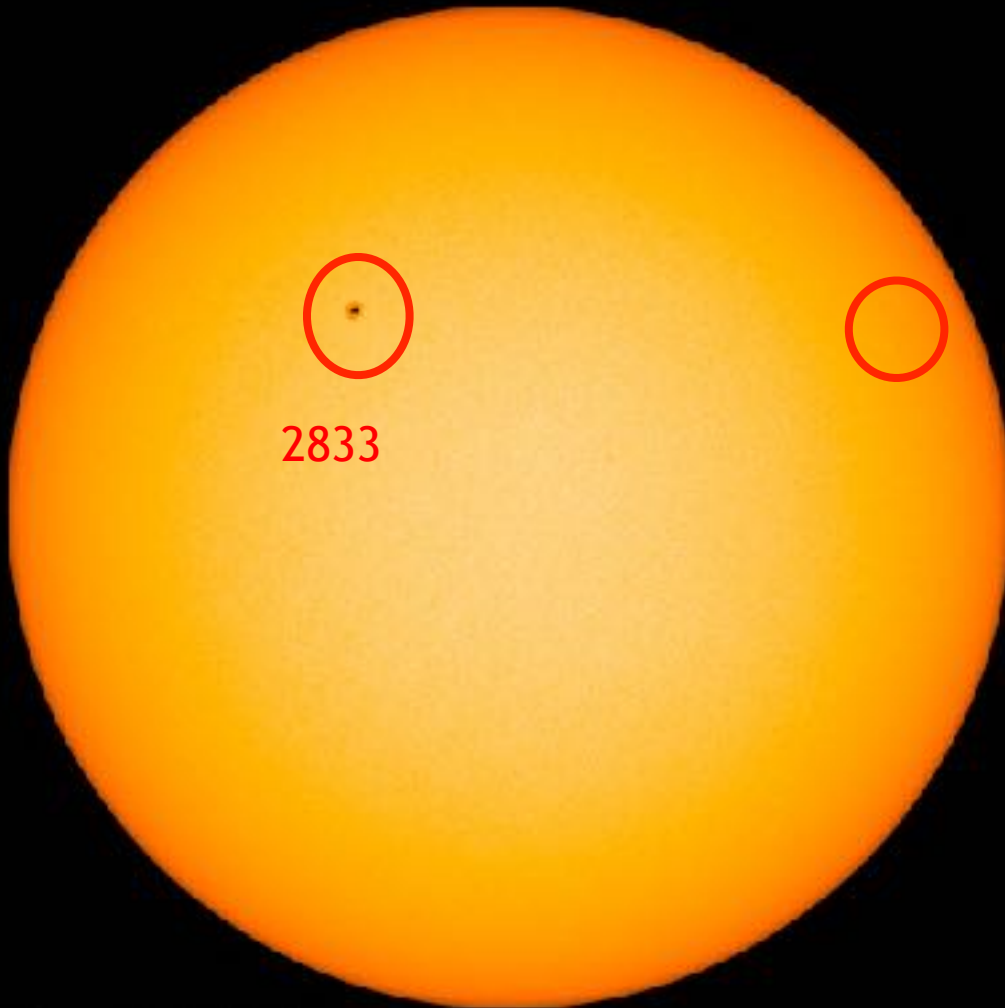


SDO/HMI Magnetogram 2021-06-16

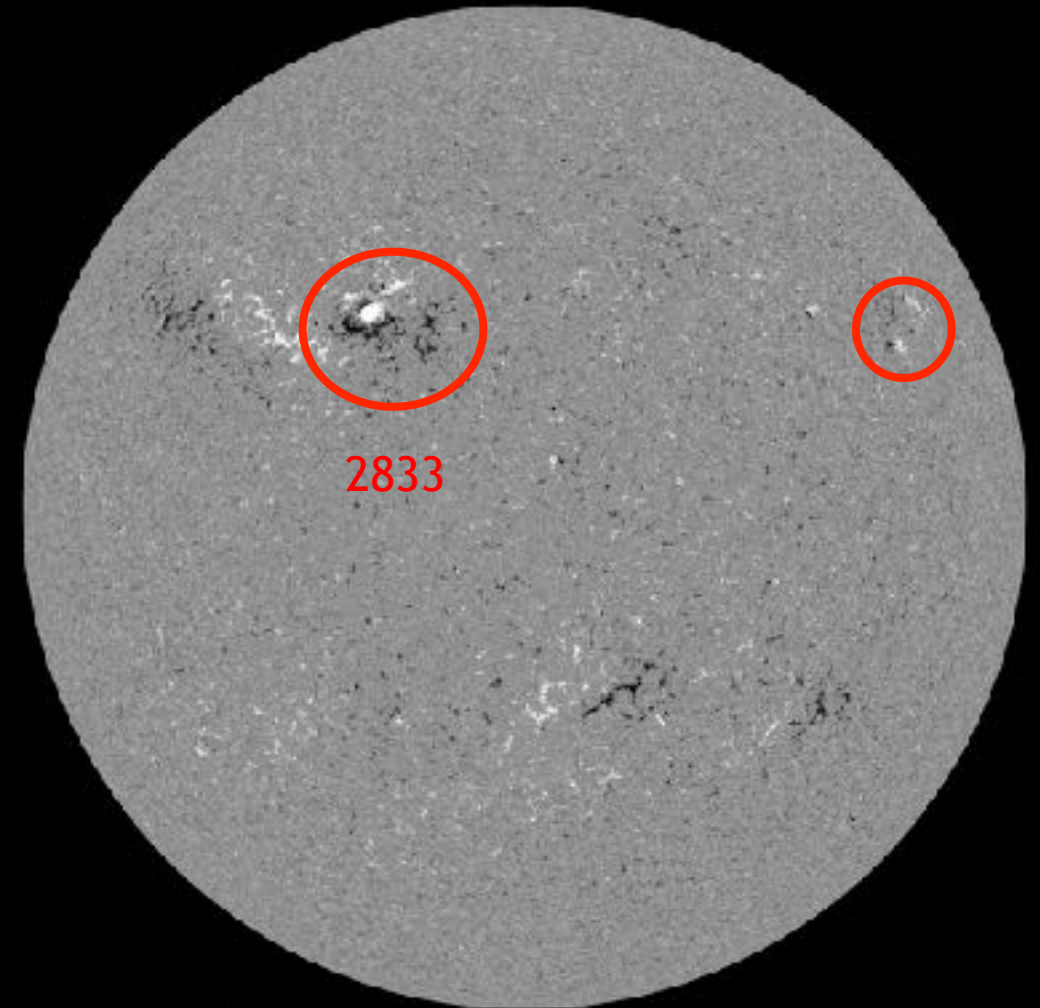


Solar active regions

SDO/HMI White Light 2021-06-17

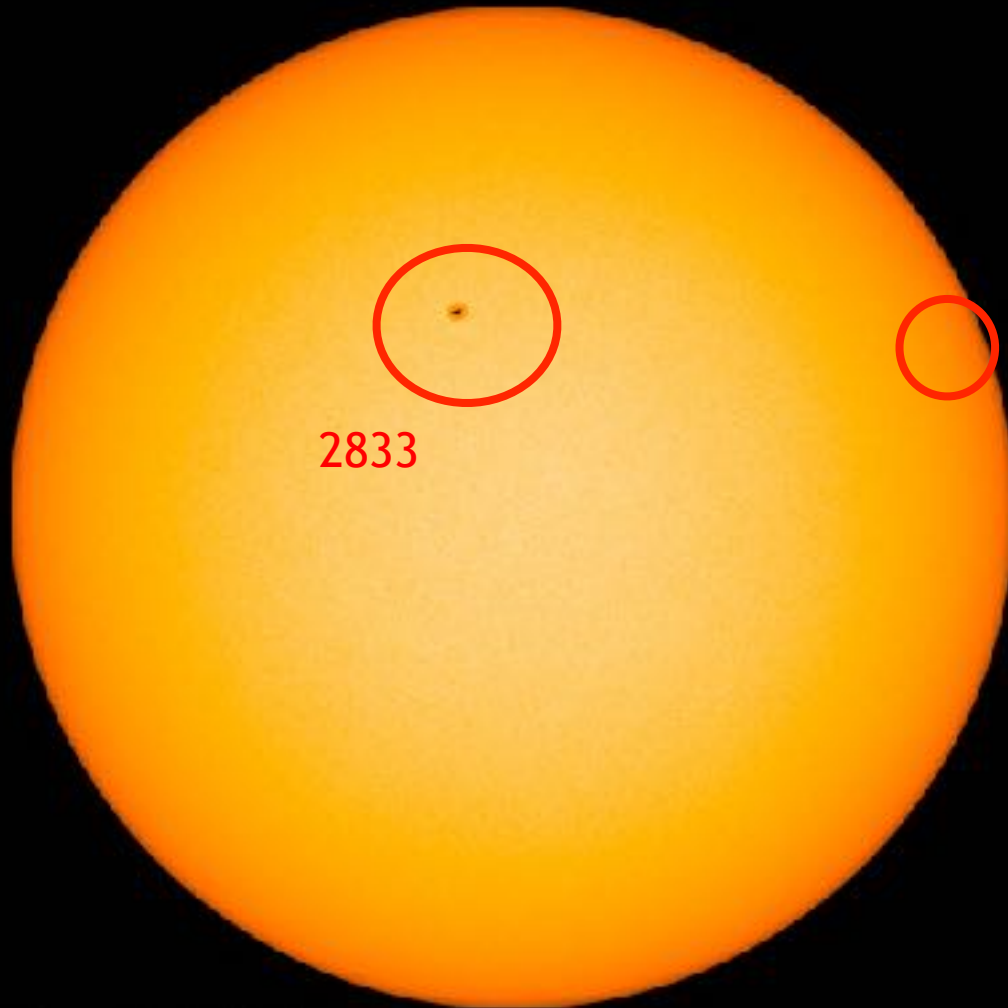


SDO/HMI Magnetogram 2021-06-17

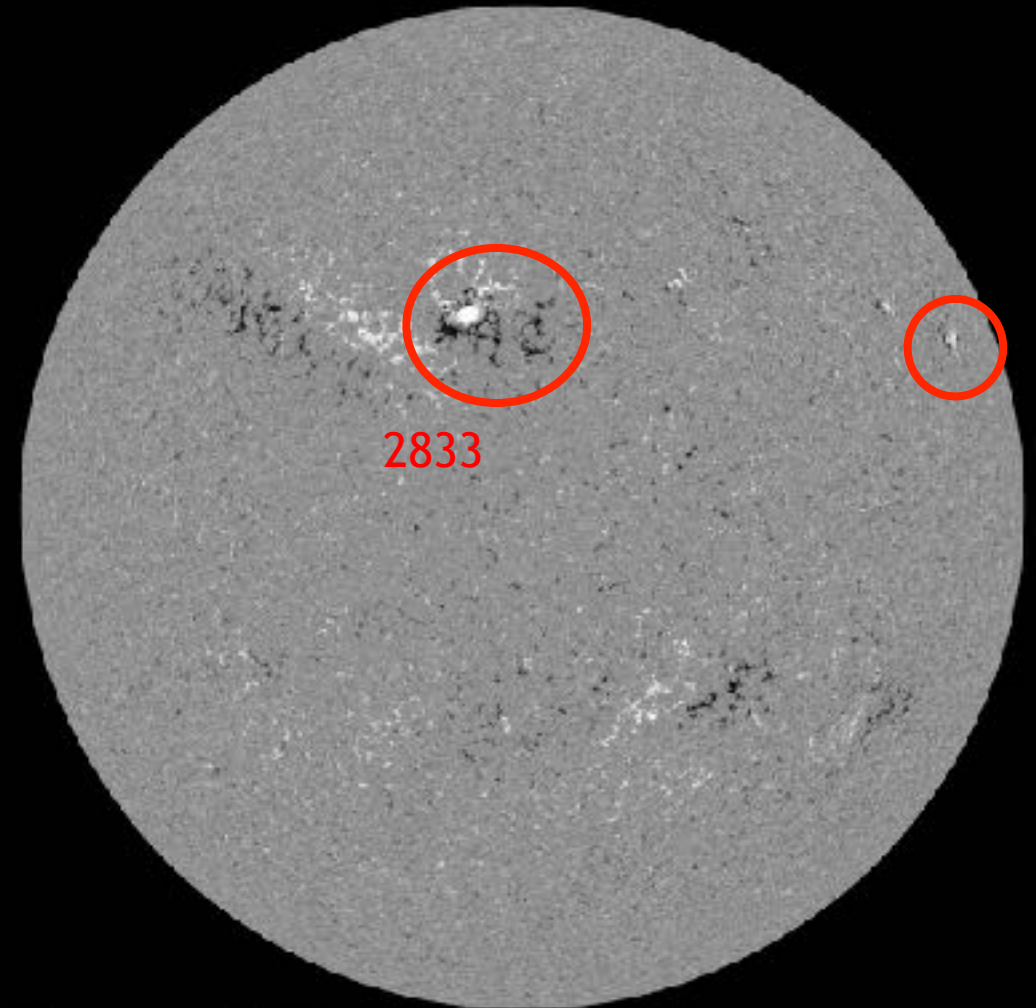


Solar active regions

SDO/HMI White Light 2021-06-18

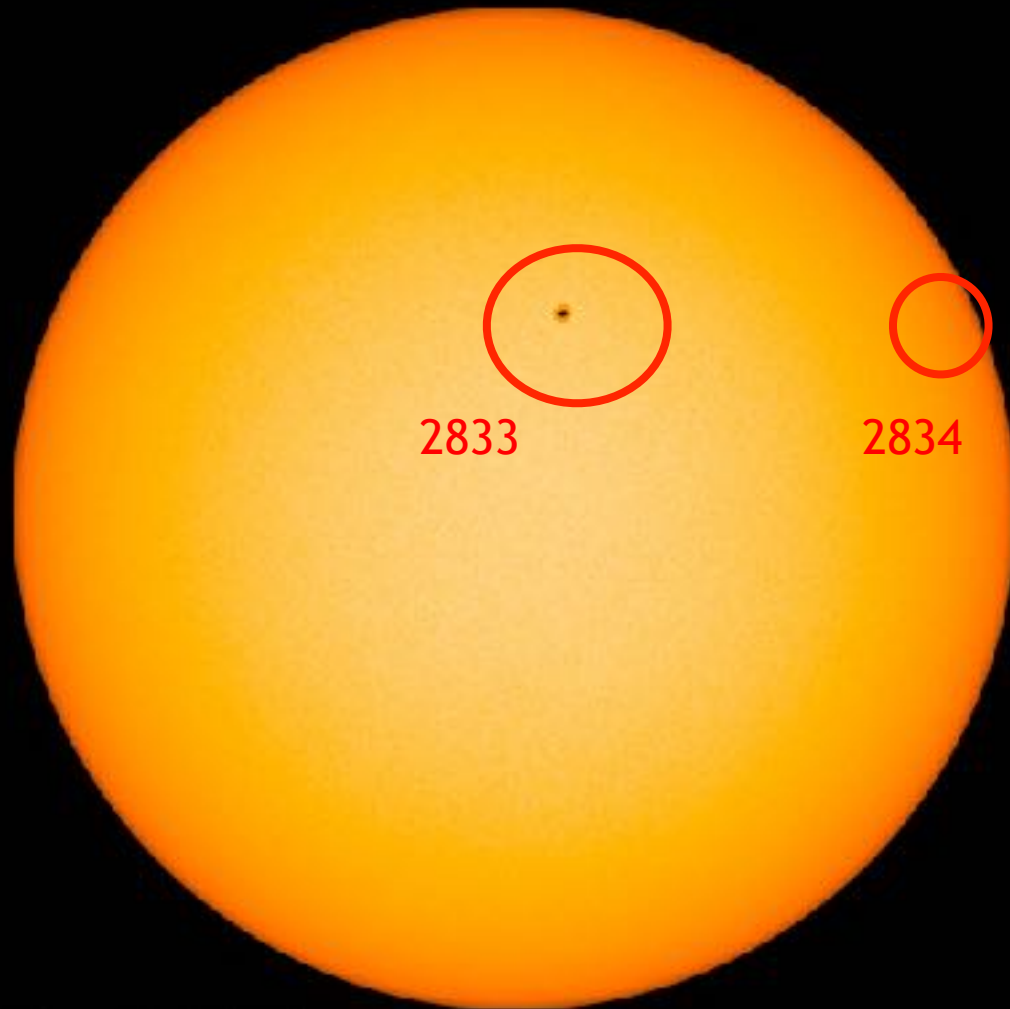


SDO/HMI Magnetogram 2021-06-18

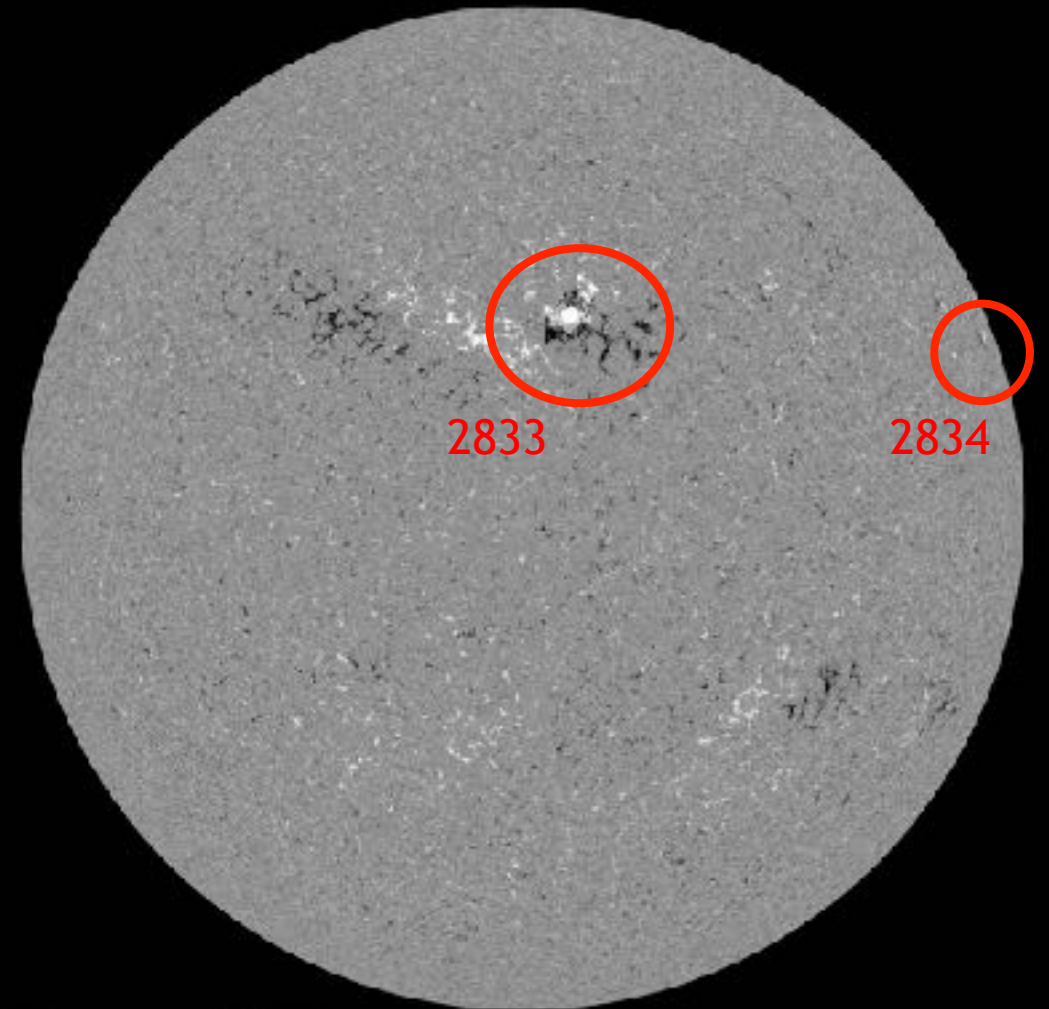


Solar active regions

SDO/HMI White Light 2021-06-19

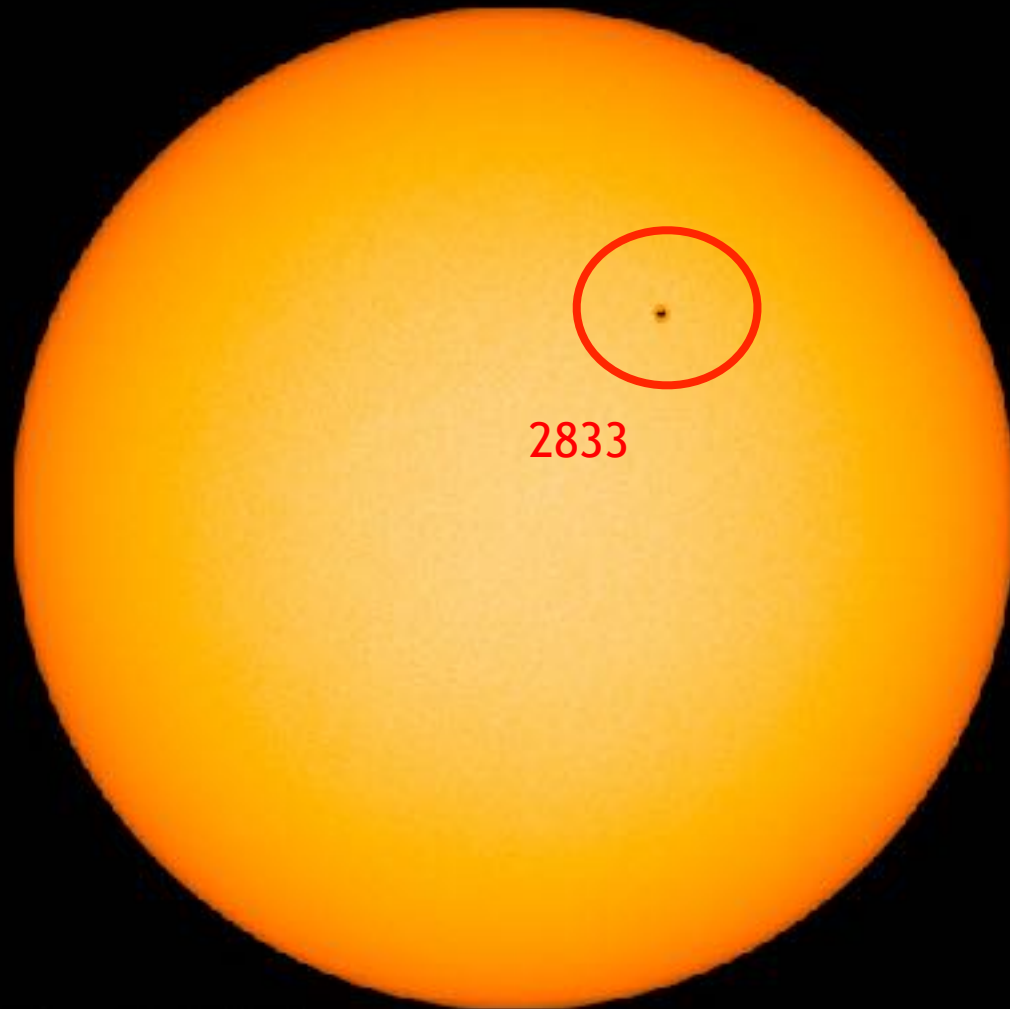


SDO/HMI Magnetogram 2021-06-19

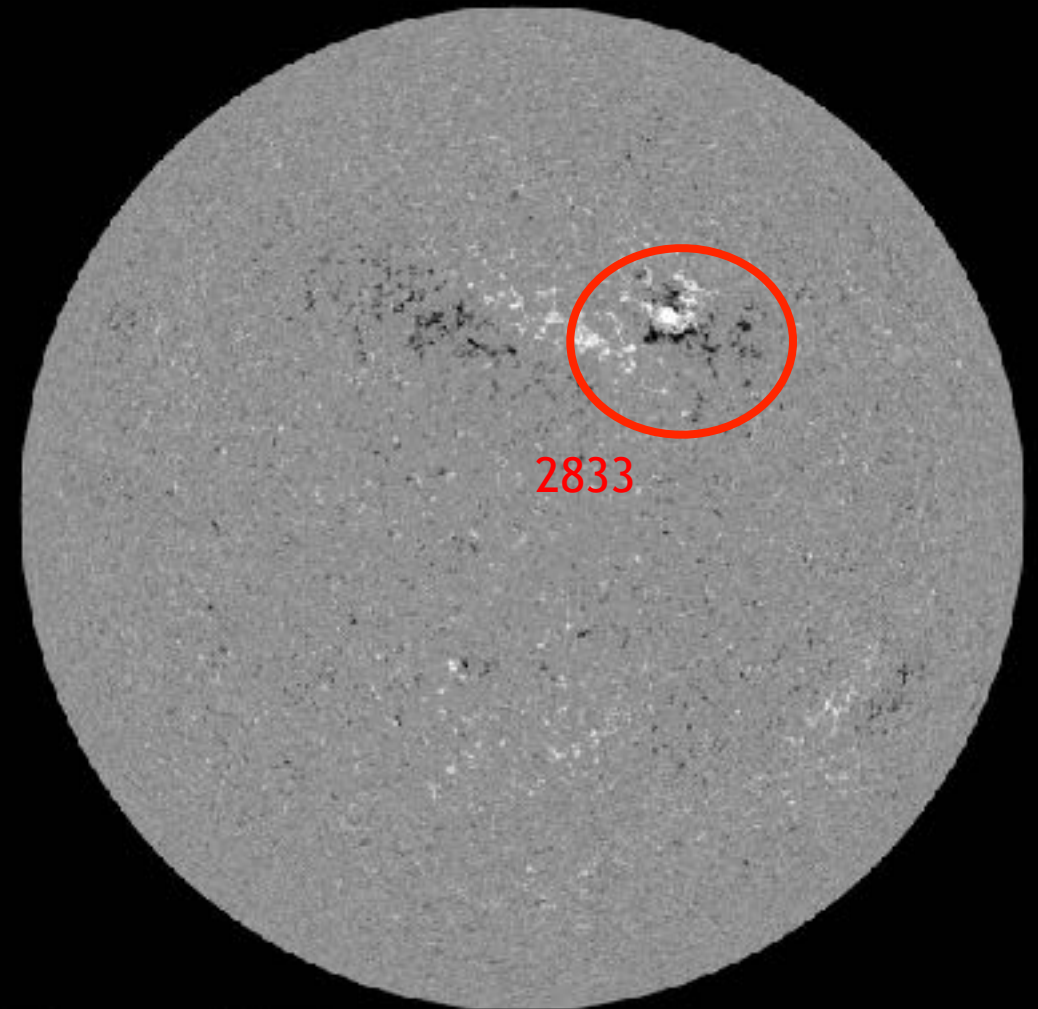


Solar active regions

SDO/HMI White Light 2021-06-20



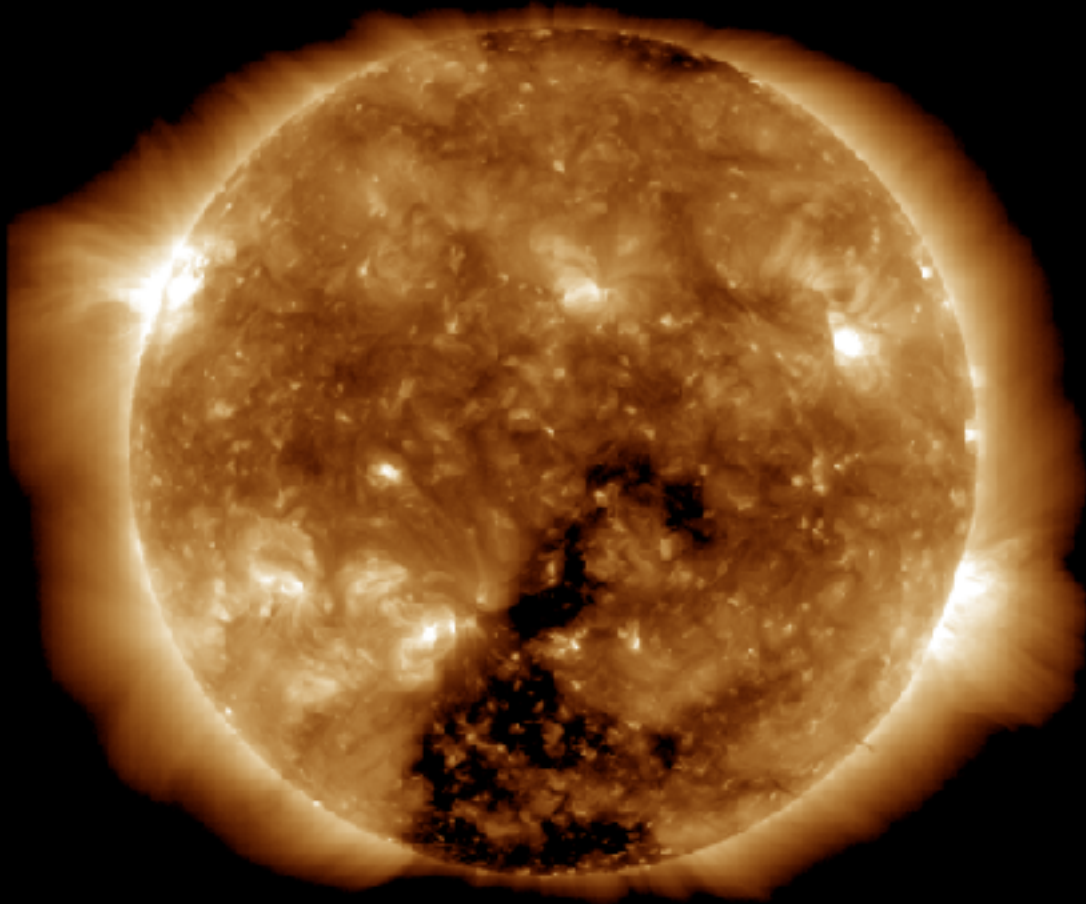
SDO/HMI Magnetogram 2021-06-20



Coronal holes

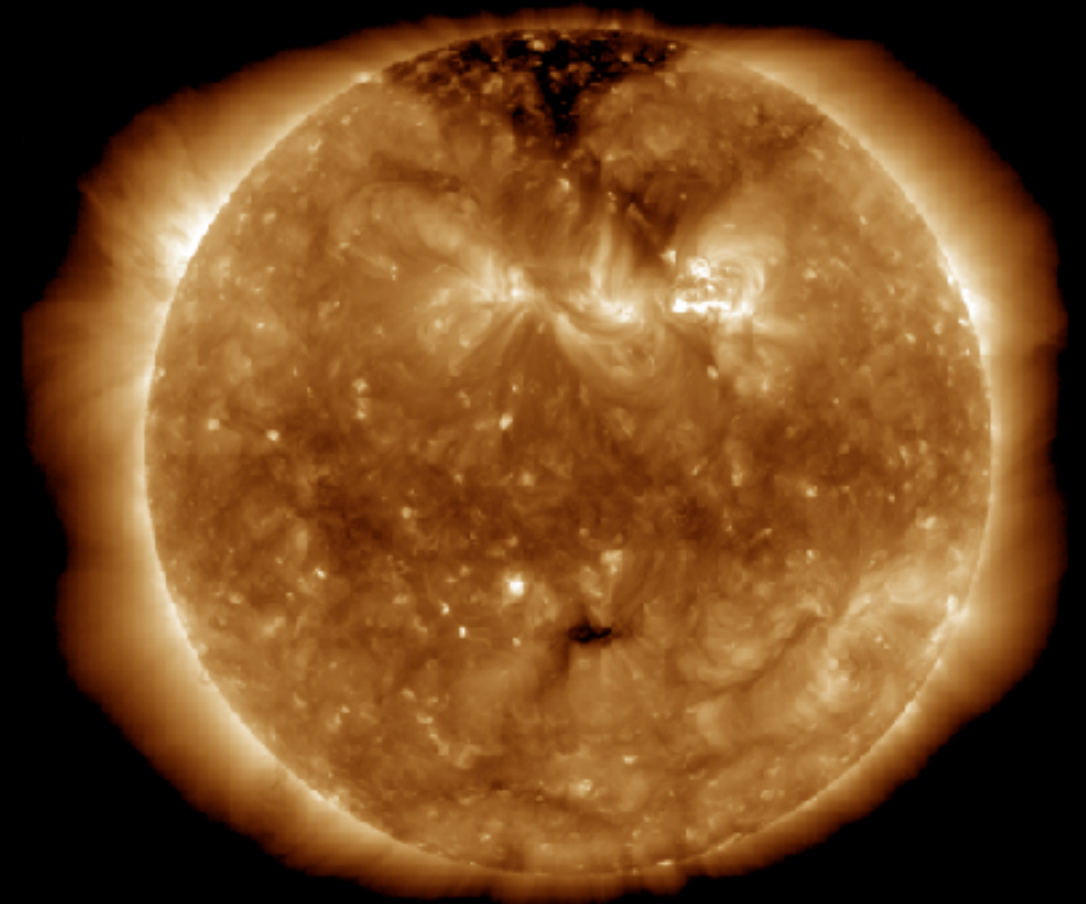
SDO/AIA 19.3 nm 2021-06-13

SDO/AIA AIA_193Å 2021-06-13T12:00:05.843



SDO/AIA 19.3 nm 2021-06-20

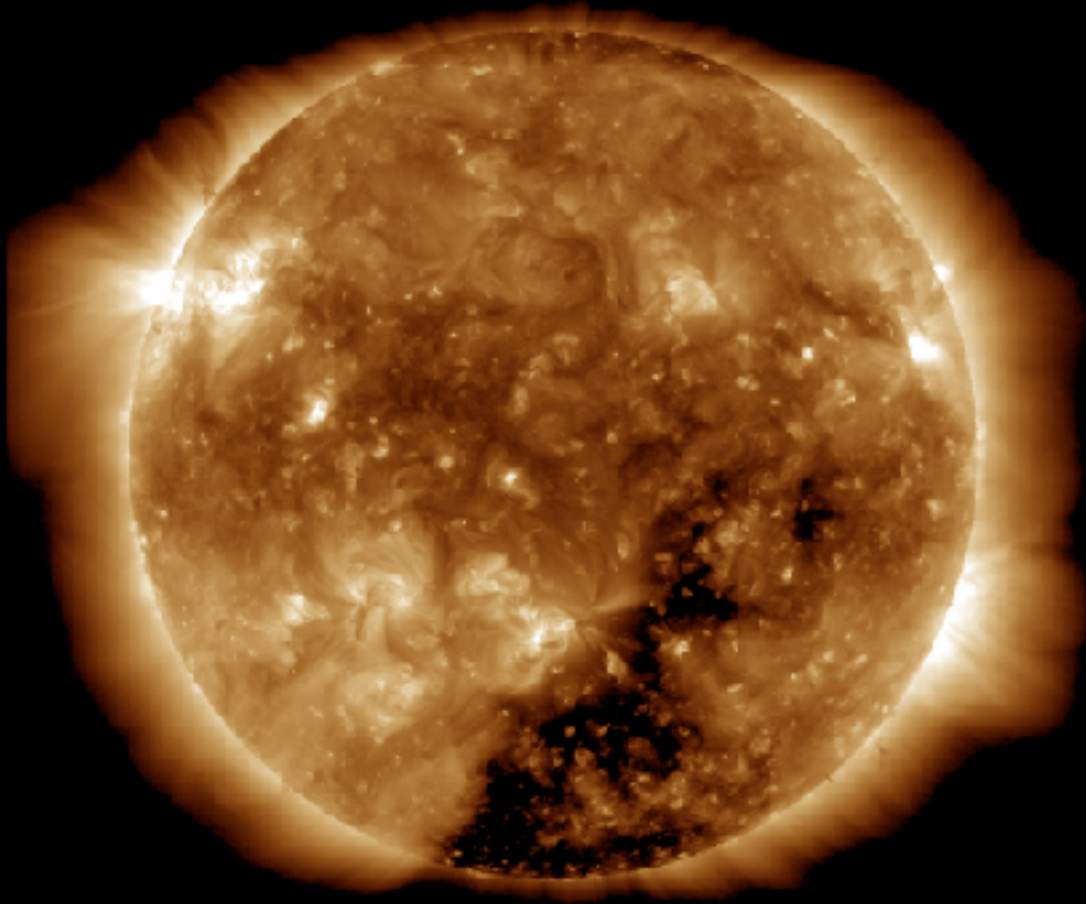
SDO/AIA AIA_193Å 2021-06-20T12:00:05.847



Coronal holes

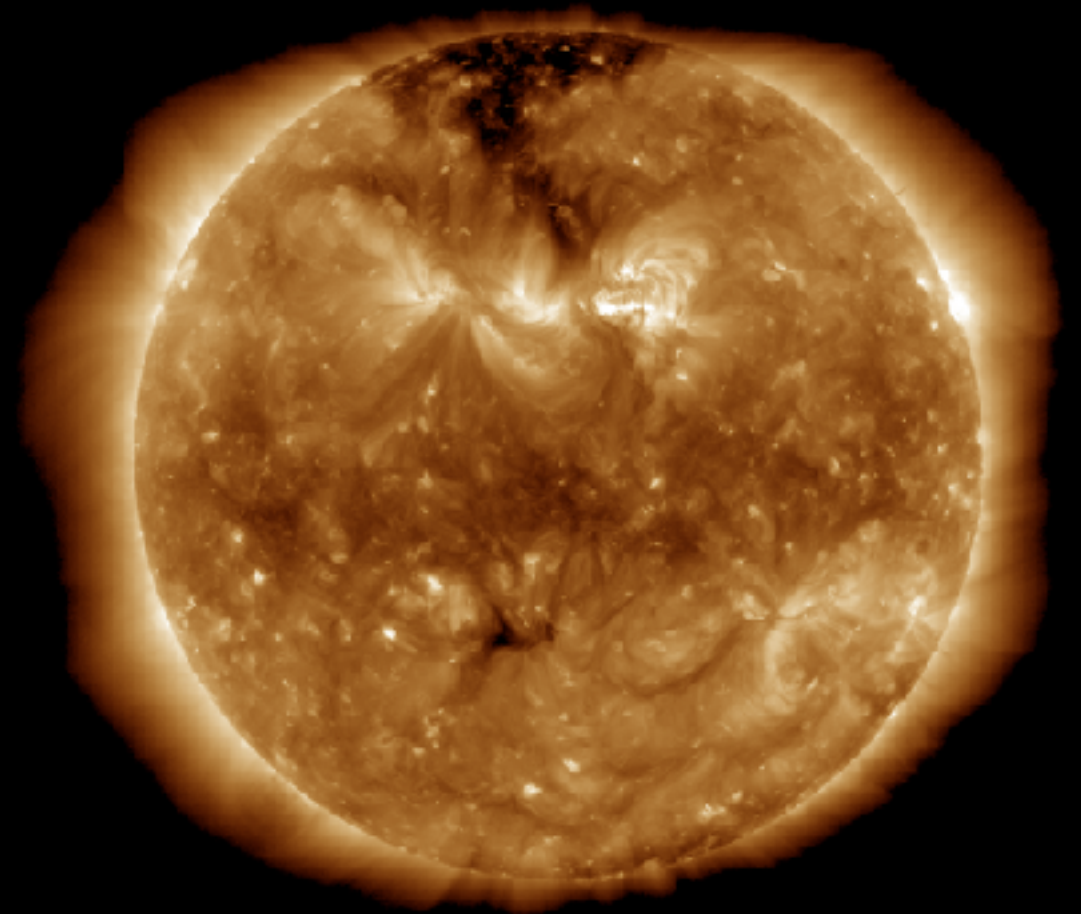
SDO/AIA 19.3 nm 2021-06-14

SDO/AIA AIA_193Å 2021-06-14T18:00:05.843



SDO/AIA 19.3 nm 2021-06-19

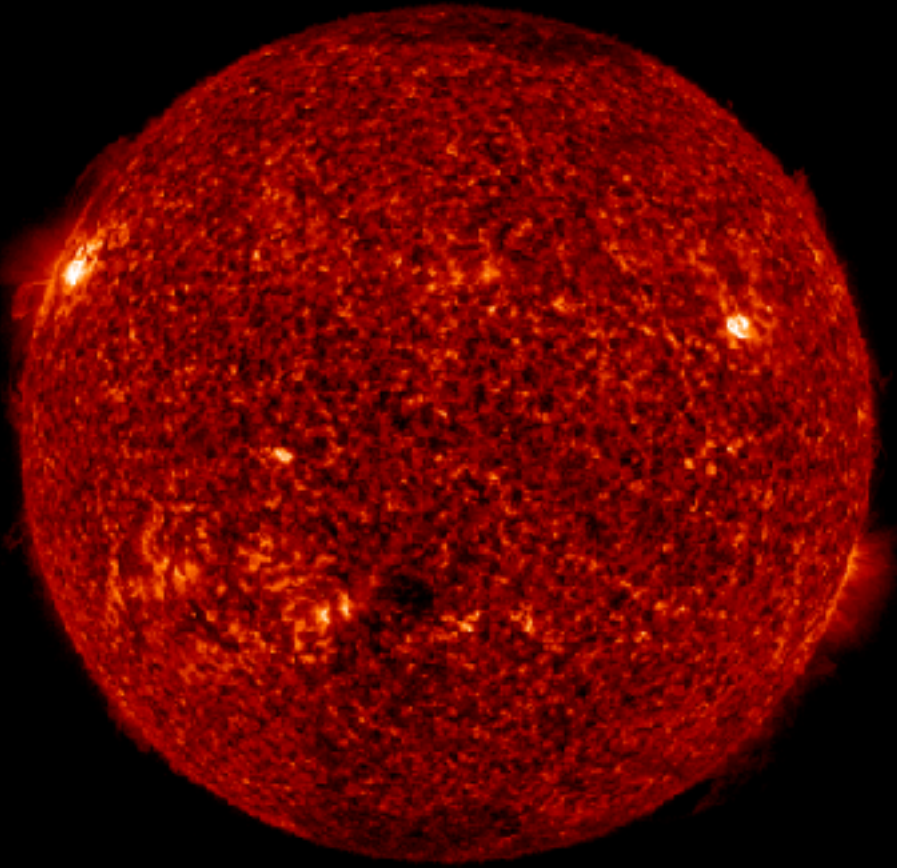
SDO/AIA AIA_193Å 2021-06-19T18:00:05.843



Filaments

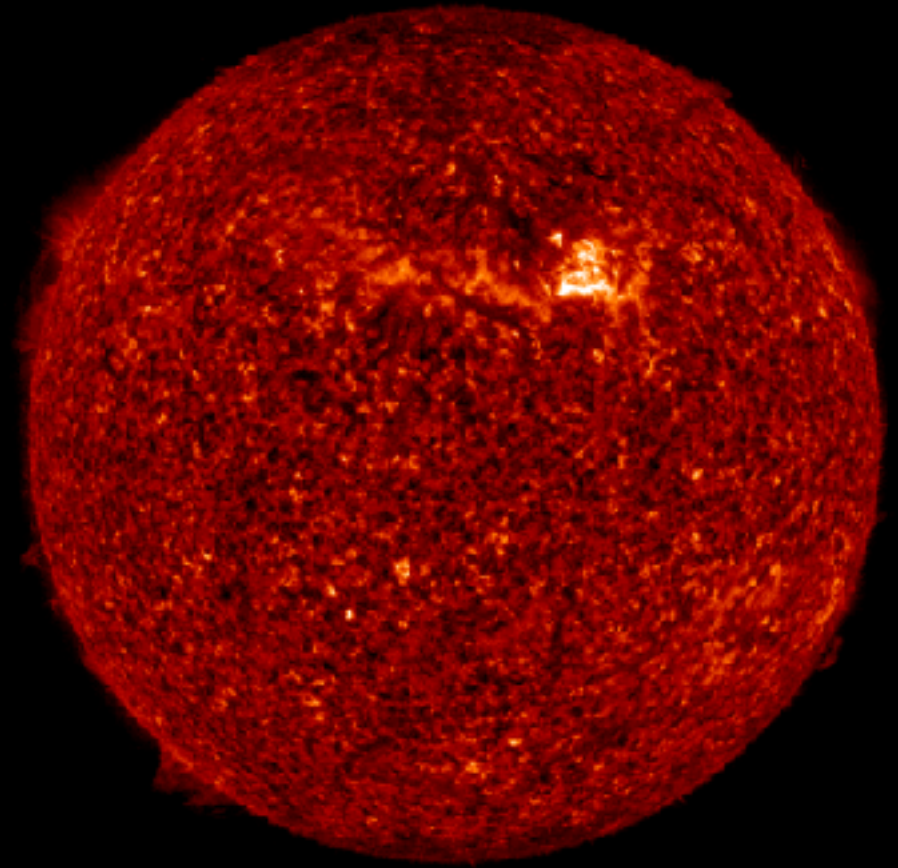
SDO/AIA 30.4 nm 2021-06-13

SDO/AIA AIA 304Å 2021-06-13T12:00:06.580



SDO/AIA 30.4 nm 2021-06-20

SDO/AIA AIA 304Å 2021-06-20T12:00:06.580

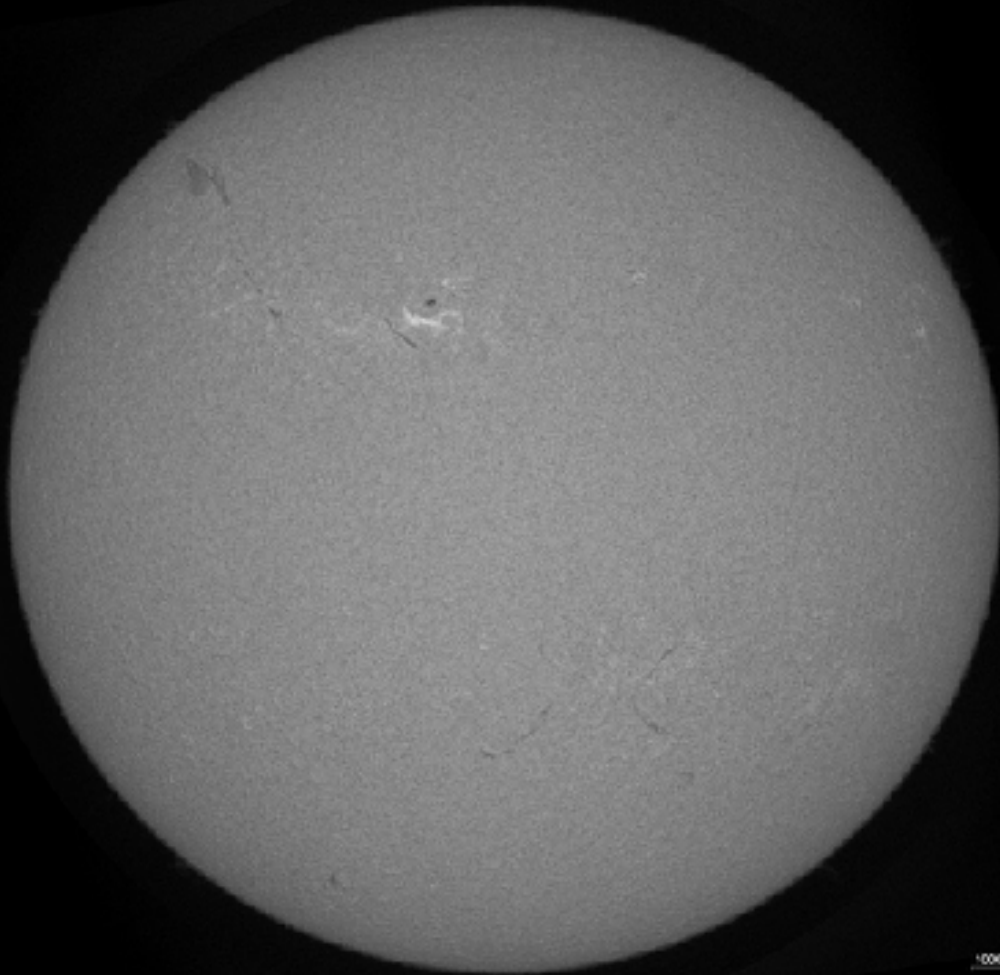


Filaments & Filament eruptions

H-alpha 2021-06-18

KANZELHOEHE OBSERVATORY

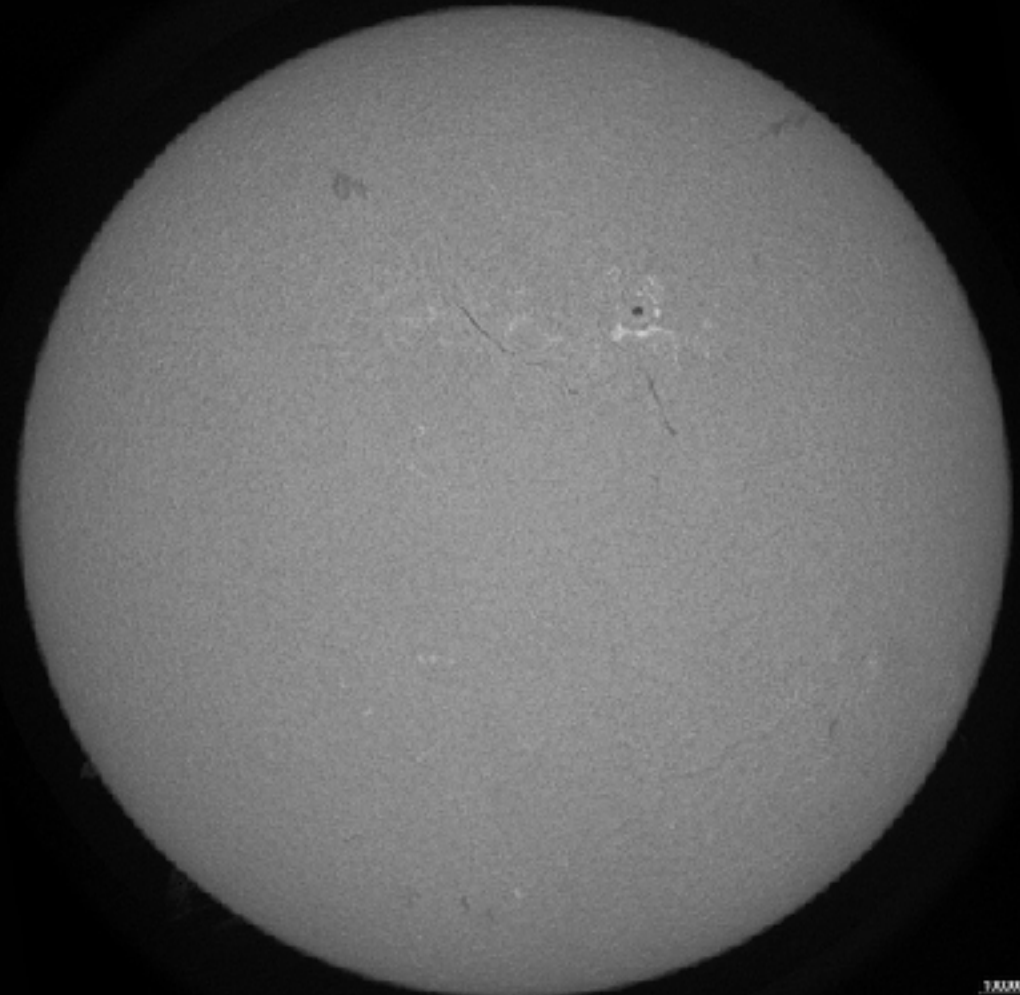
H α 2021-06-18T06:52:27Z



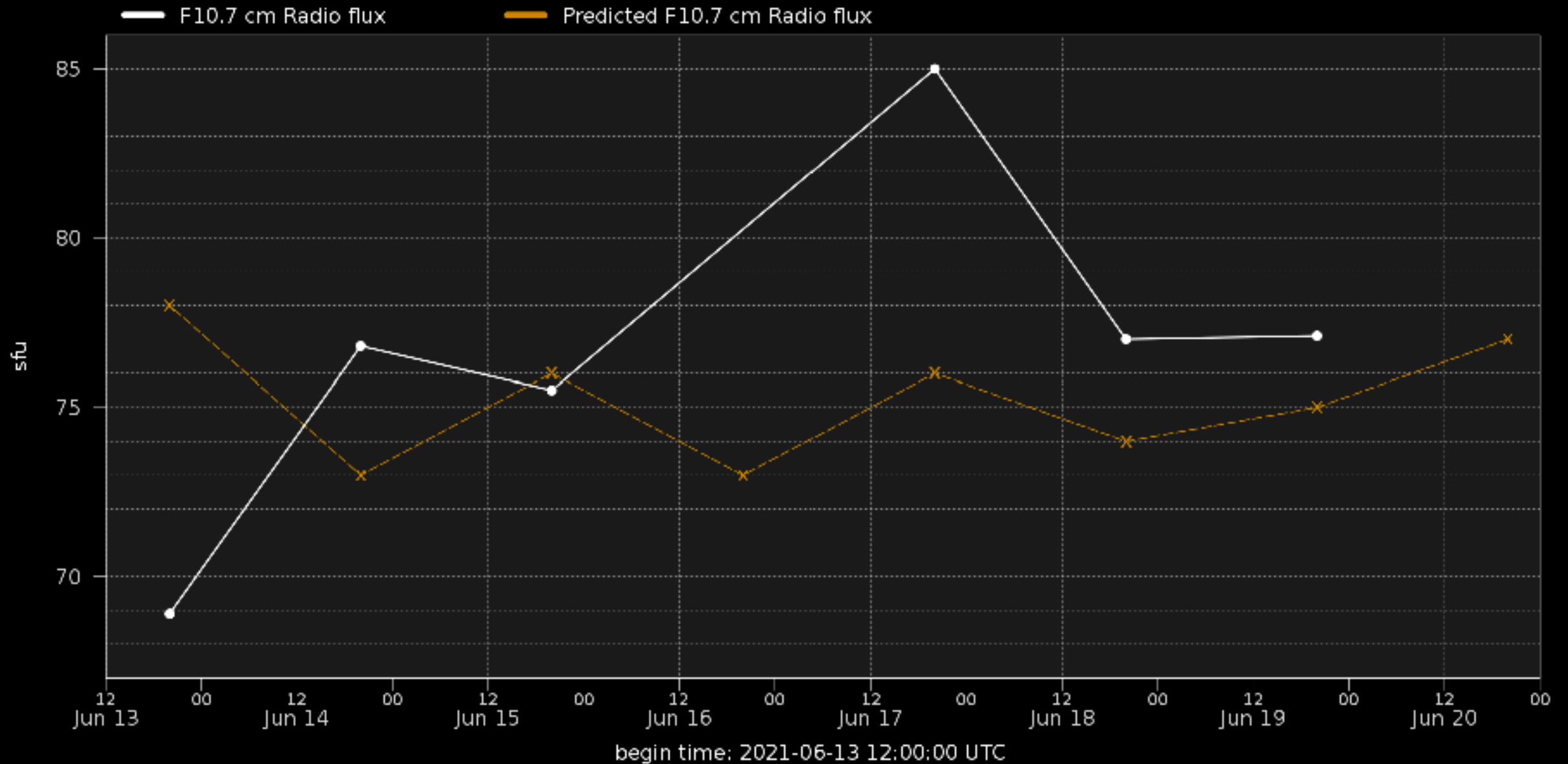
H-alpha 2021-06-20

KANZELHOEHE OBSERVATORY

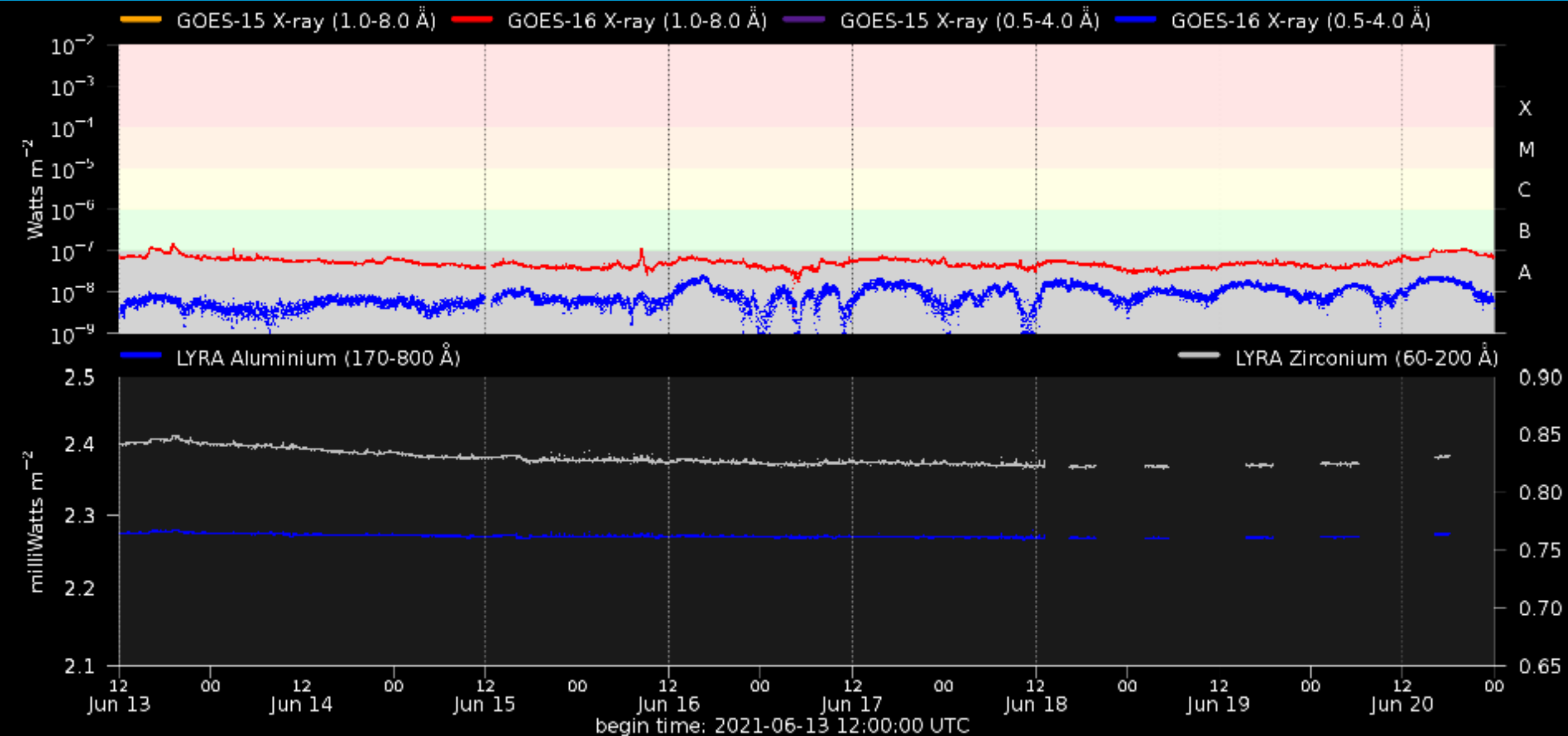
H α 2021-06-20T06:49:35Z



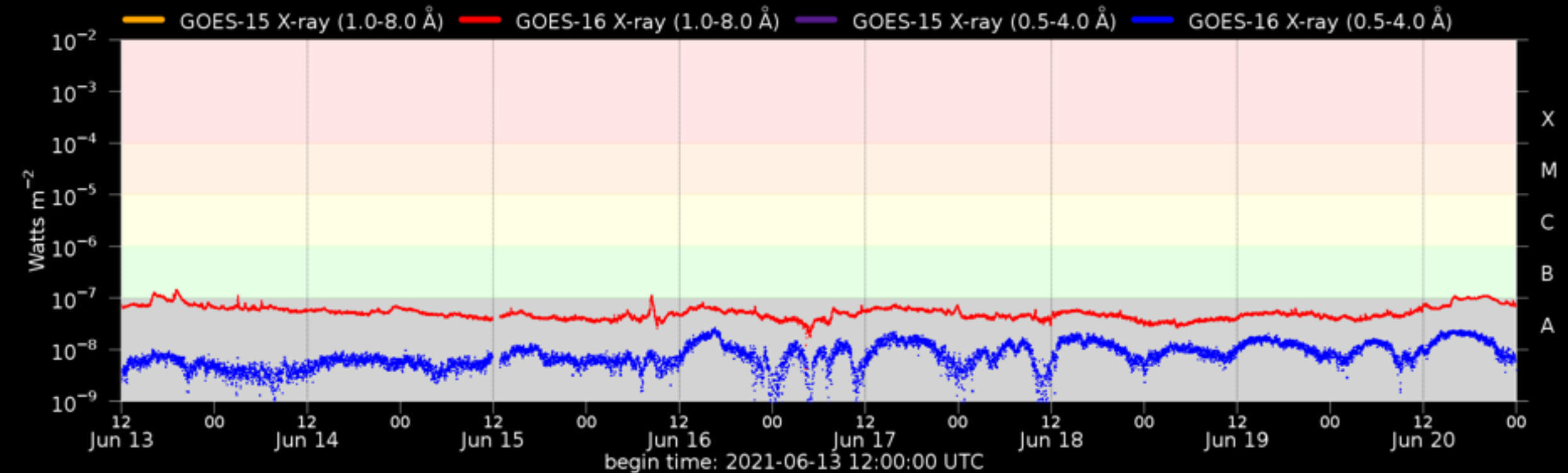
Solar F10.7cm radio flux



Solar X-Ray and UV flux



Flaring activity



Probabilities (%) and occurrences (#) of C/M/X-flares issued at 12:30 and over the next 24h:

Issue date	2021-06-13	2021-06-14	2021-06-15	2021-06-16	2021-06-17	2021-06-18	2021-06-19	2021-06-20
Probability (%)	05 01 01	10 01 01	05 01 01	01 01 01	05 01 01	05 01 01	10 01 01	05 01 01
Observed (#)	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00

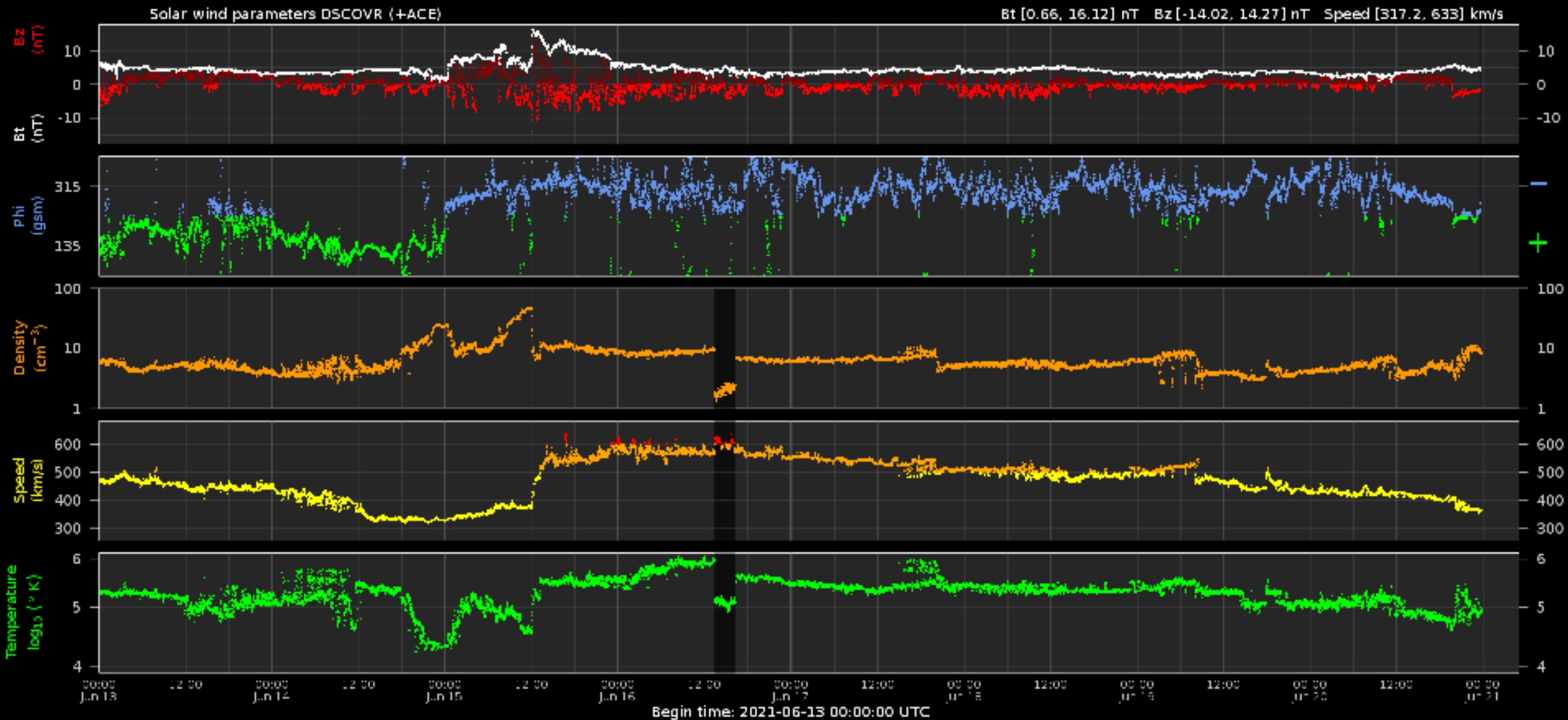
Solar Wind and Geomagnetic Activity



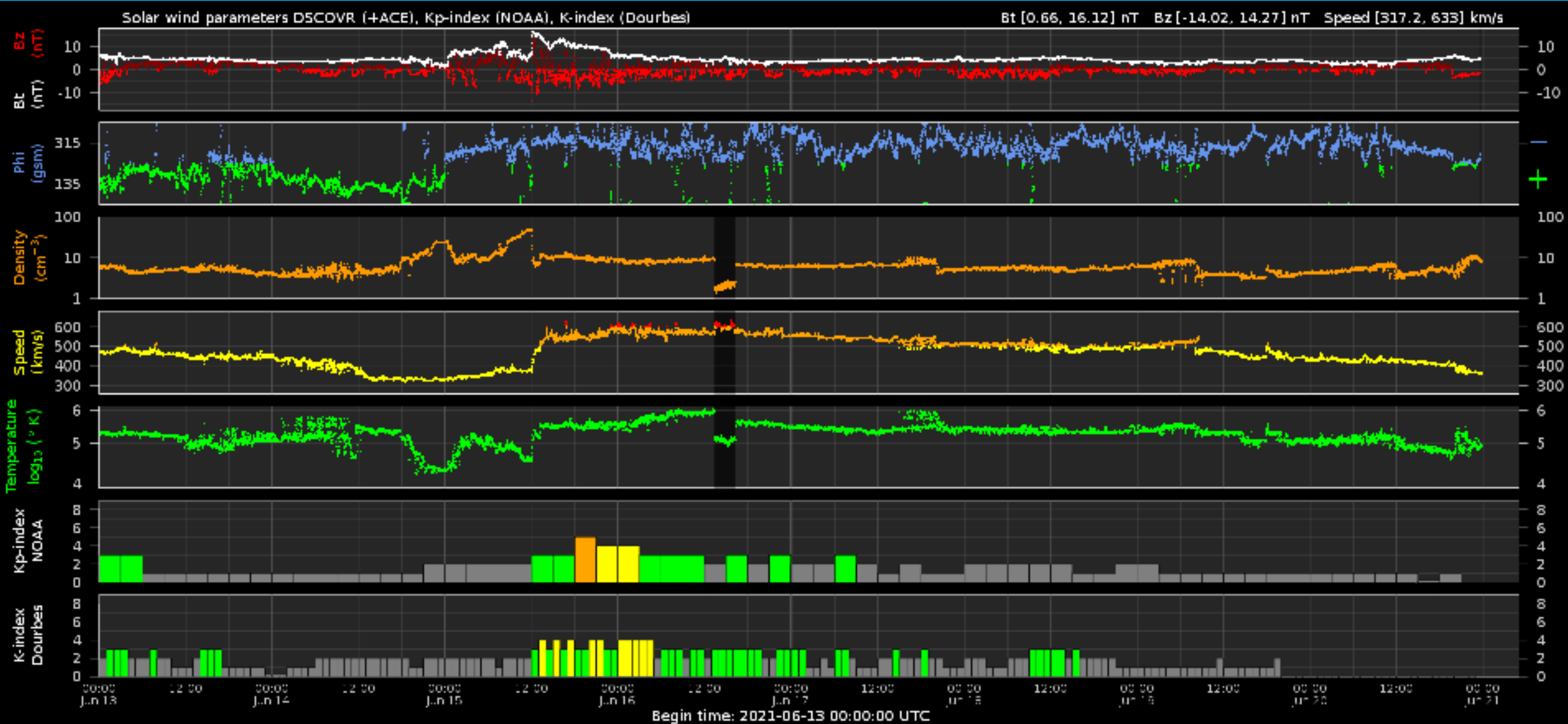
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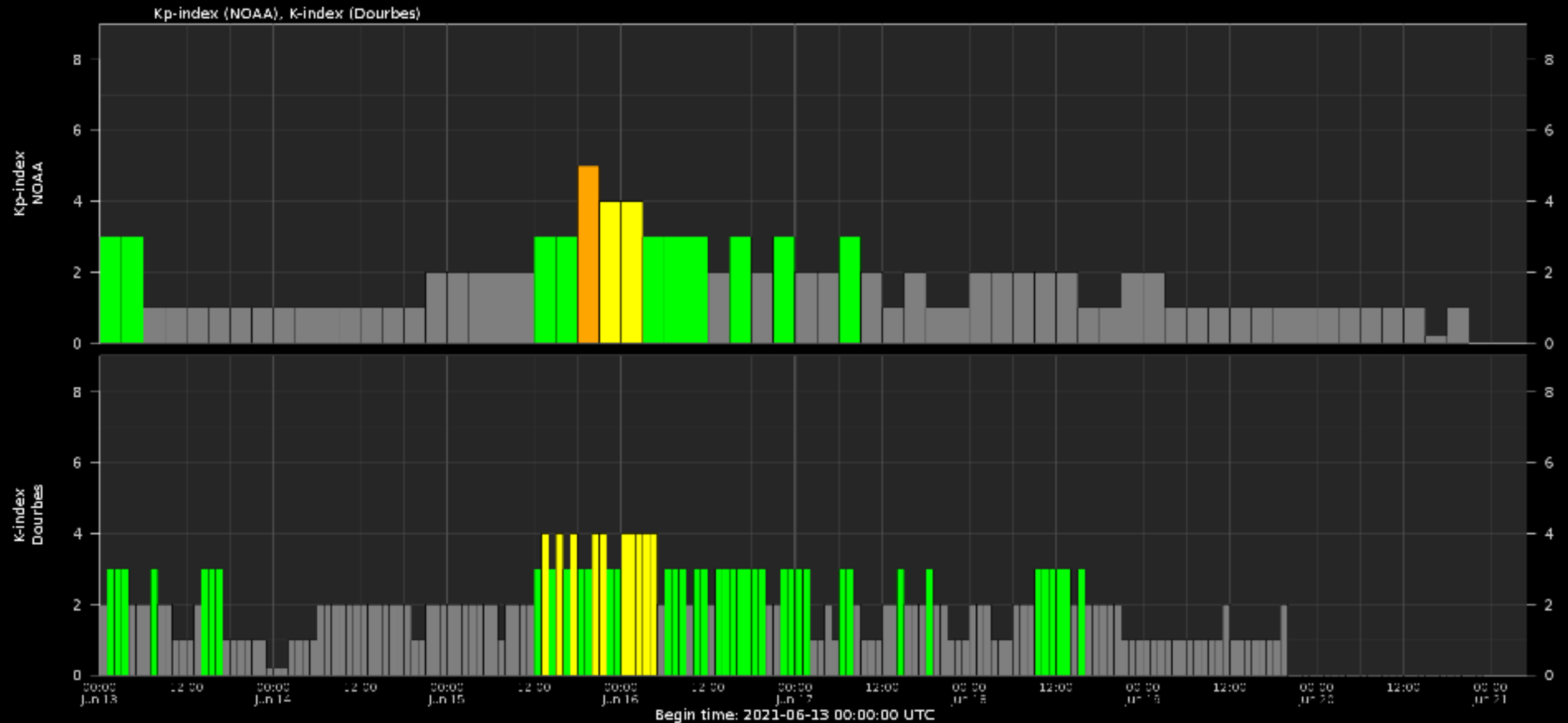
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



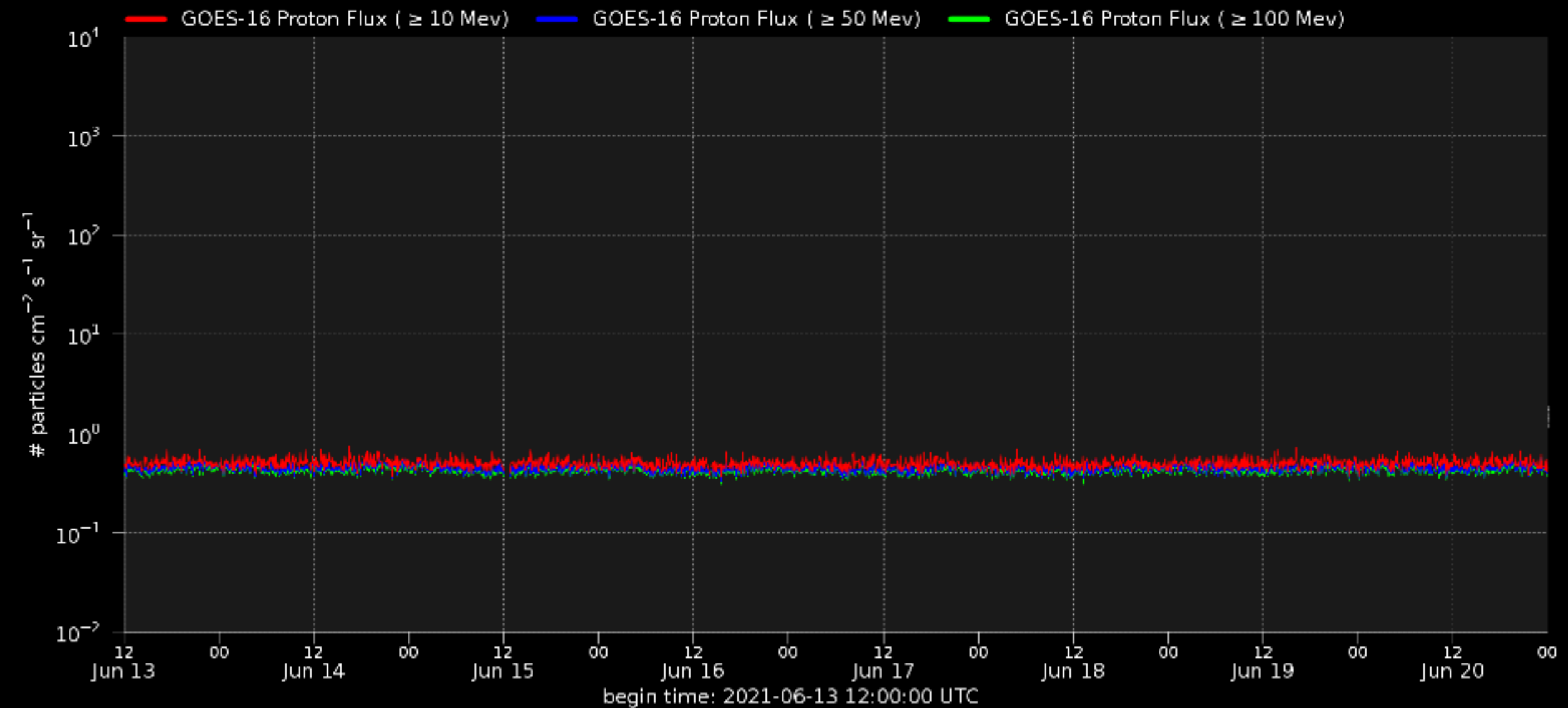
Energetic Particles



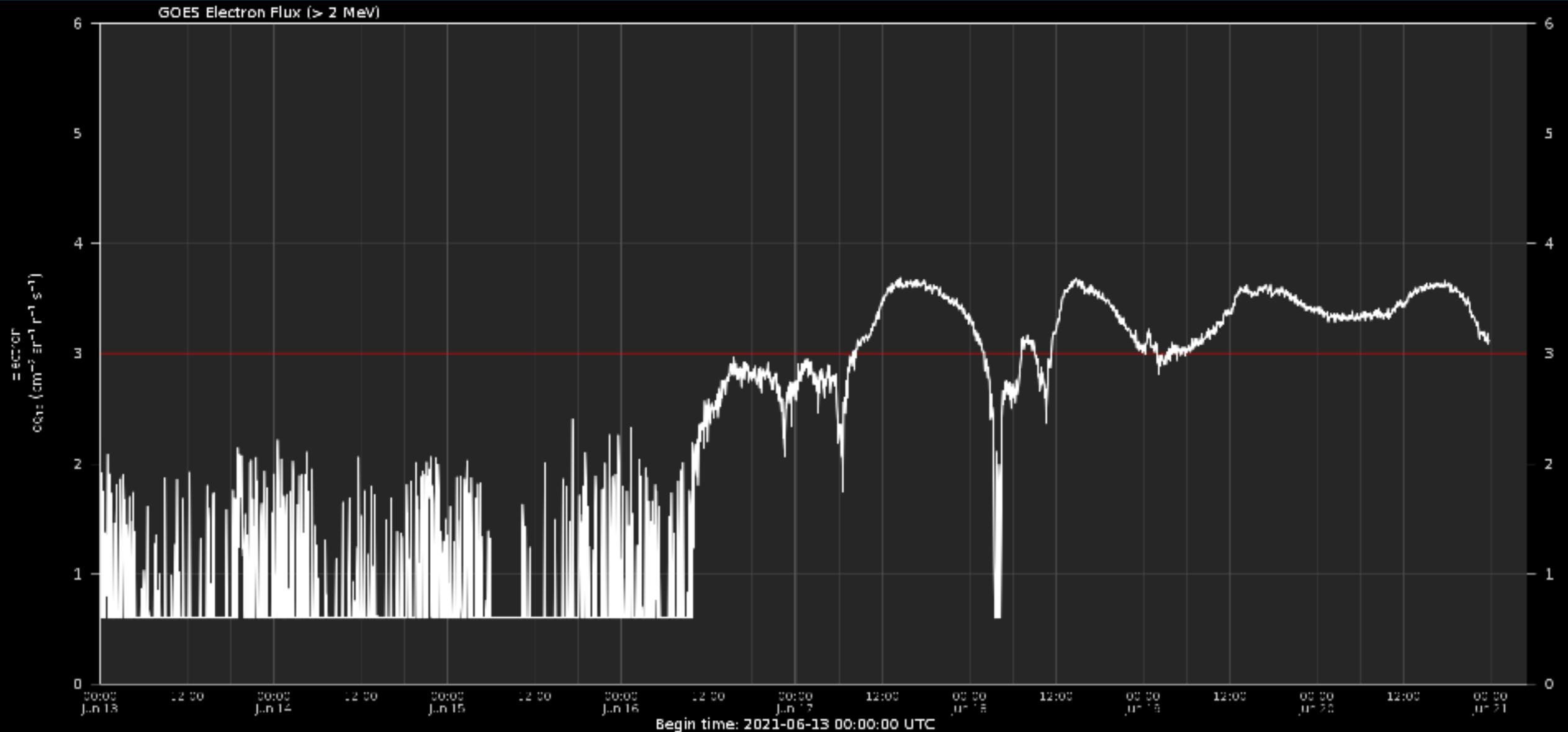
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Solar proton flux



Electron flux at GEO



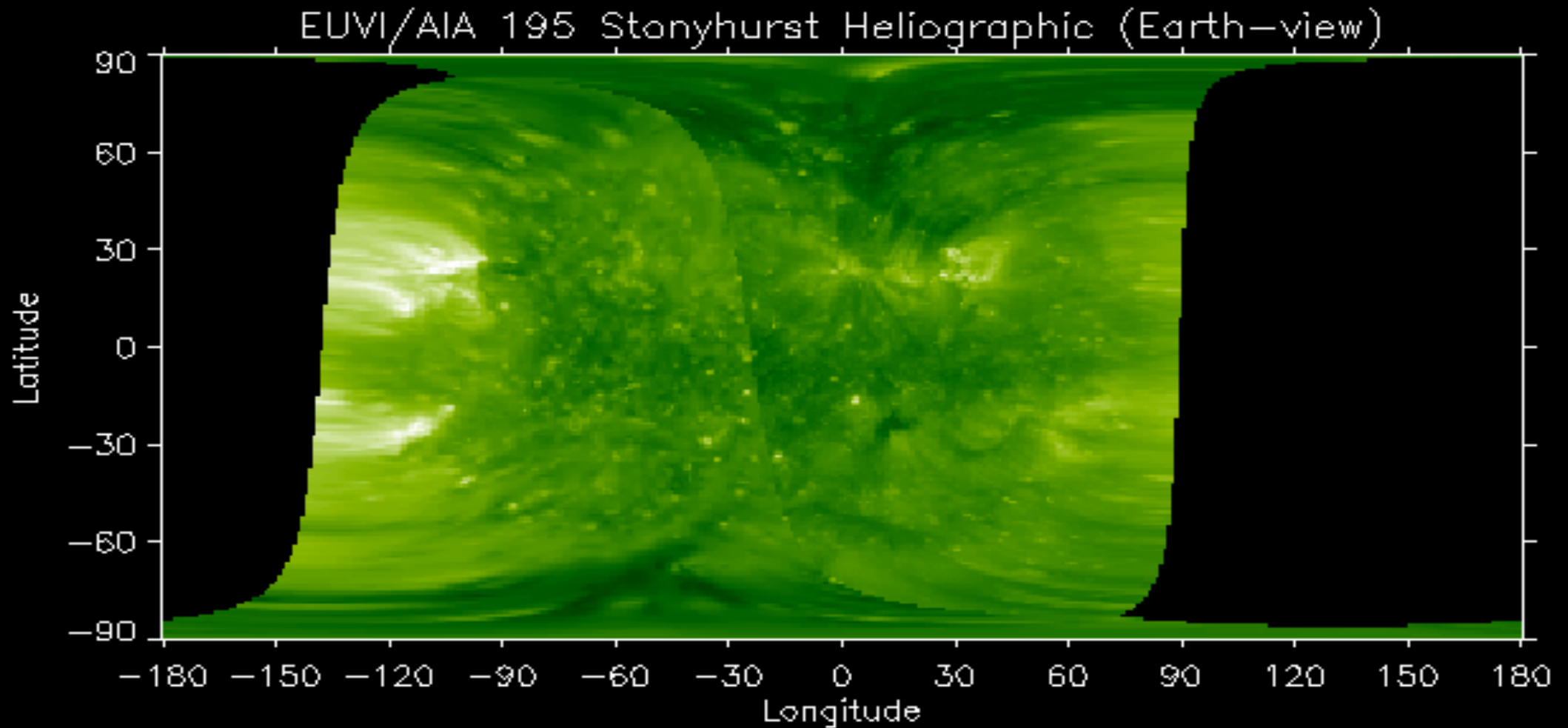
Outlook



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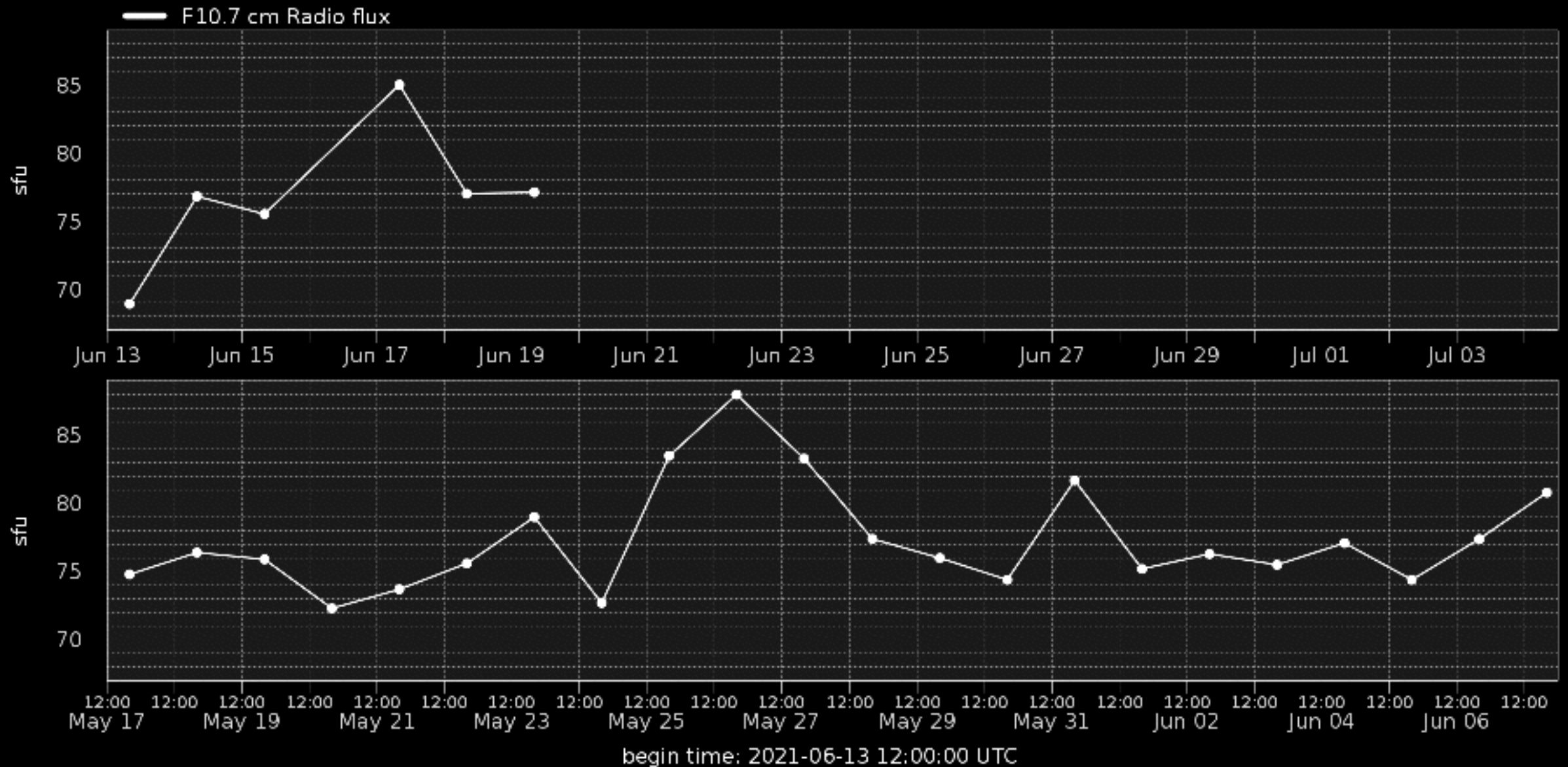
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Outlook: Solar activity

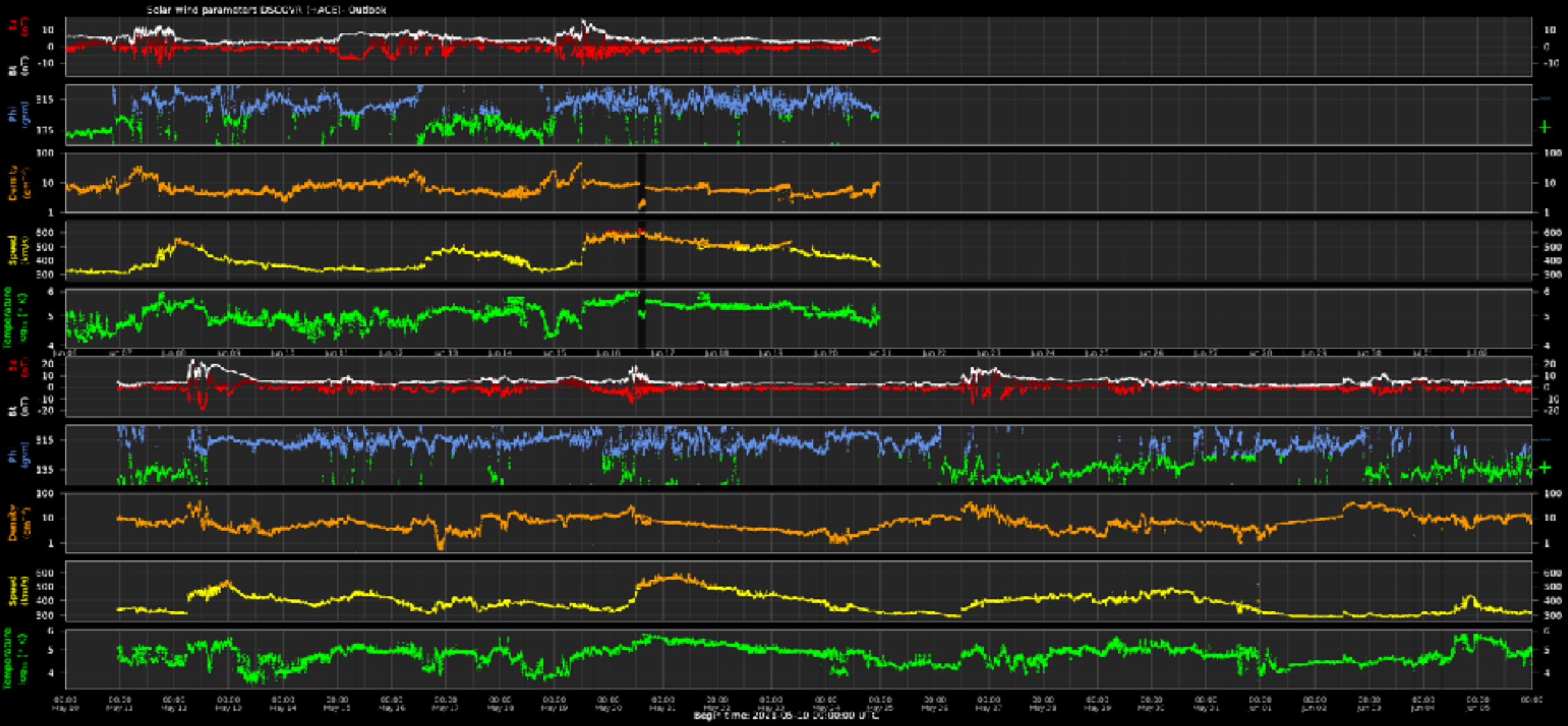


Observation date: 2021/06/21 07:55:00

Outlook: Solar F10.7cm radio flux



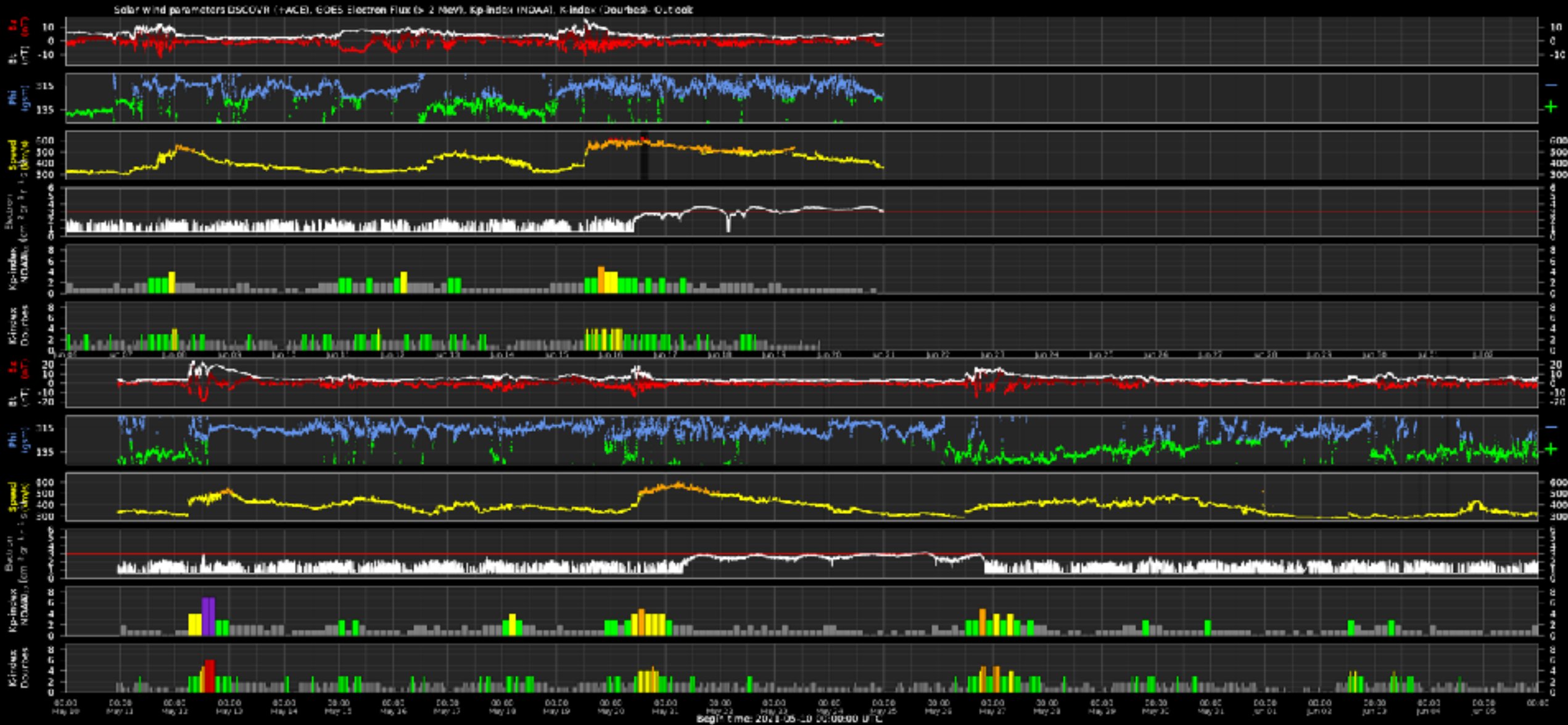
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



SIDC Space Weather Briefing

See you at our next briefing!

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