

# SIDC Space Weather Briefing

28 May-04 June 2023

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& the SIDC forecaster team



Royal Observatory  
of Belgium

Solar Influences  
Data analysis Centre  
[www.sidc.be](http://www.sidc.be)

# Summary Report

Solar activity from 2023-05-28 12:00 to 2023-06-04 23:59

Active regions	NOAA ARs 3310 to 3326
Flares	# C-class flare: 42 # M-class flare: 7 # X-class flare: 0
Coronal Holes	2 small (no clear HSS at Earth)
CMEs	One partially Earth directed on 4 June

Proton flux	Below threshold
Electron flux	Below threshold

## Solar wind and geomagnetic conditions

ICMEs	None
Solar wind conditions	B : 0.97 - 11.95 nT //Bz: -11.75 nT to 9.87 nT //Speed: 295.7 - 506.8km/s
K-indices	max K-index (KBel): 4 max Kp-index (NOAA): 4

All Quiet Alert: Off

# Solar Activity

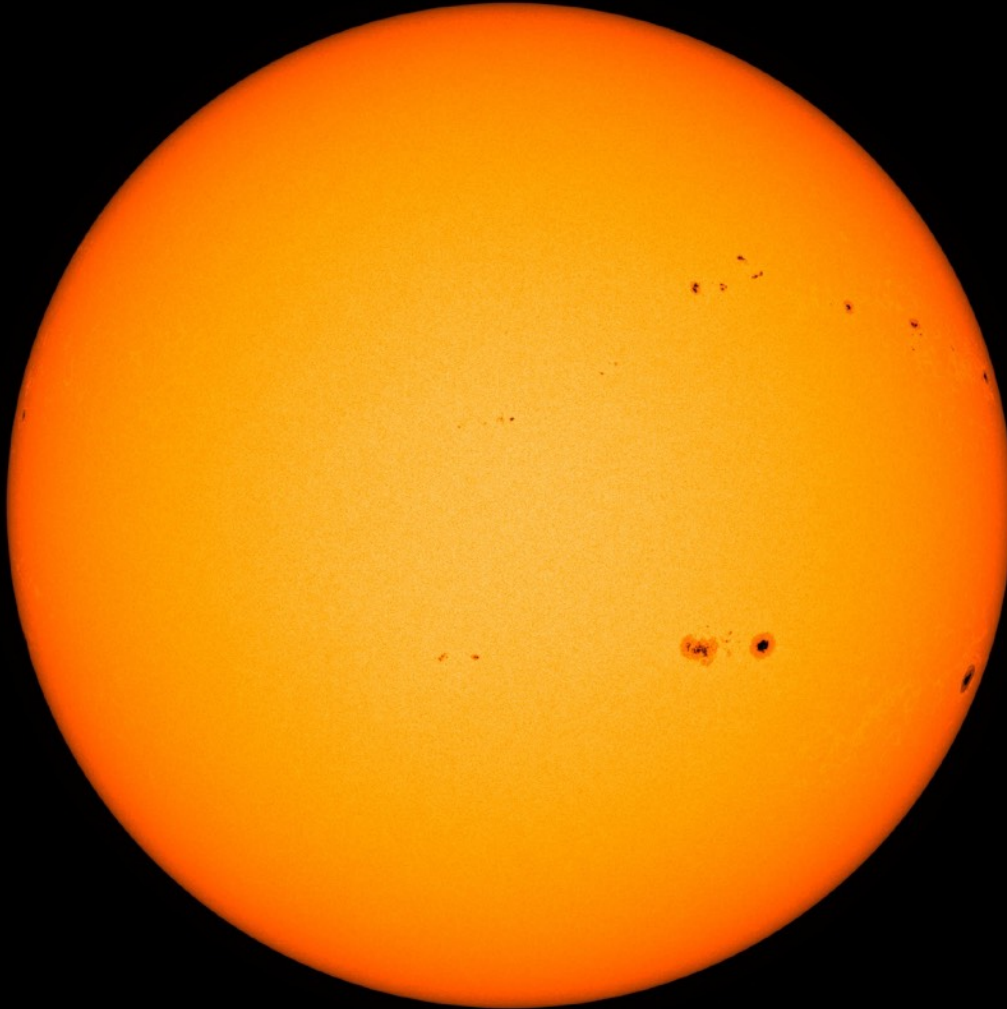


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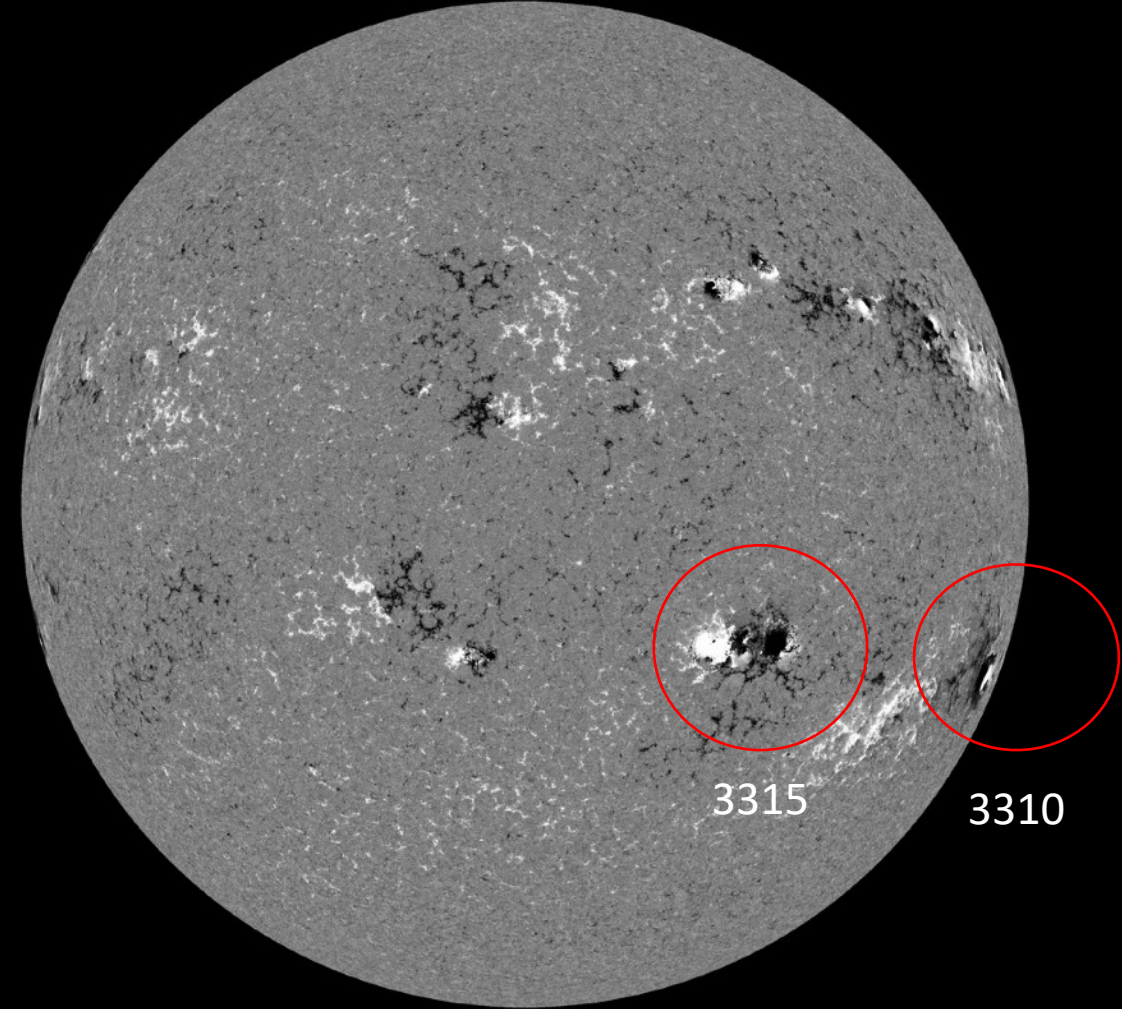
# Solar active regions

SDO/HMI White Light 2023-05-29



SDO/HMI Quick-Look Continuum: 20230529\_114500

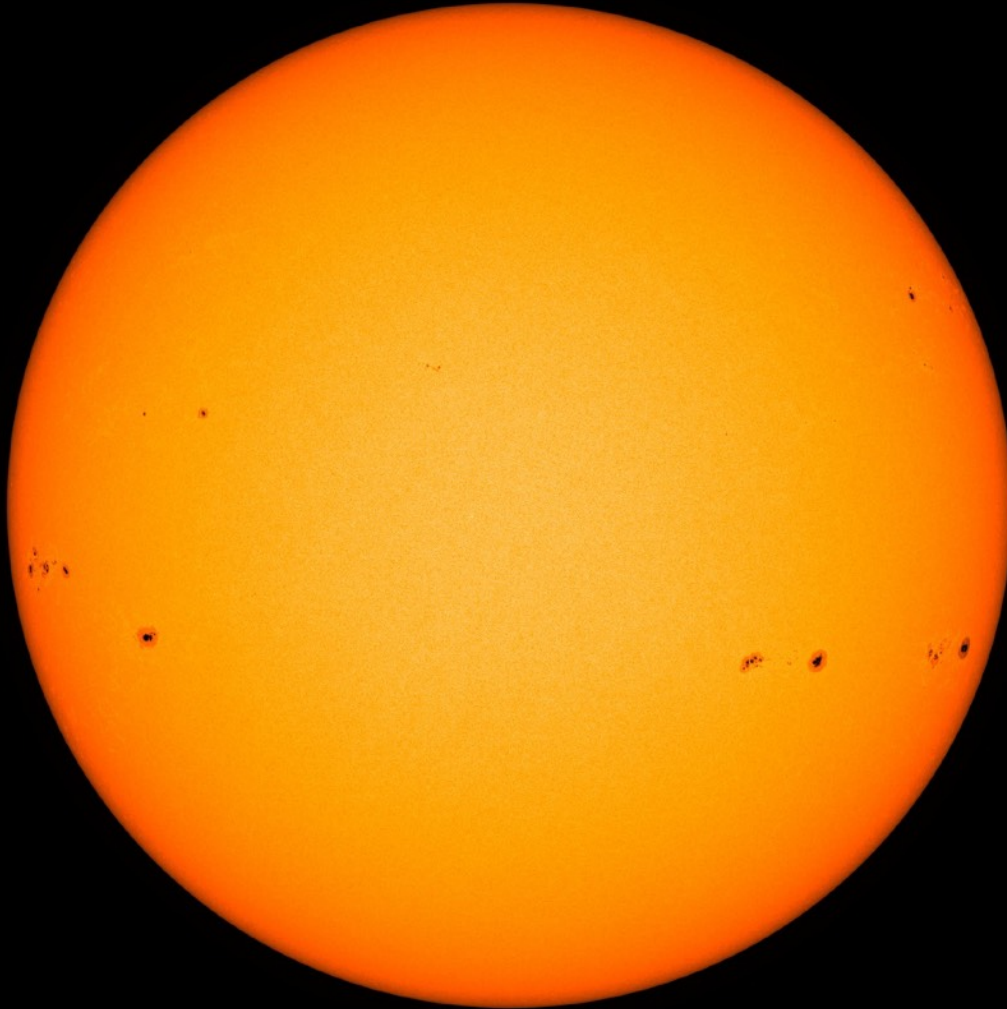
SDO/HMI Magnetogram 2023-05-29



SDO/HMI Quick-Look Magnetogram: 20230529\_114500

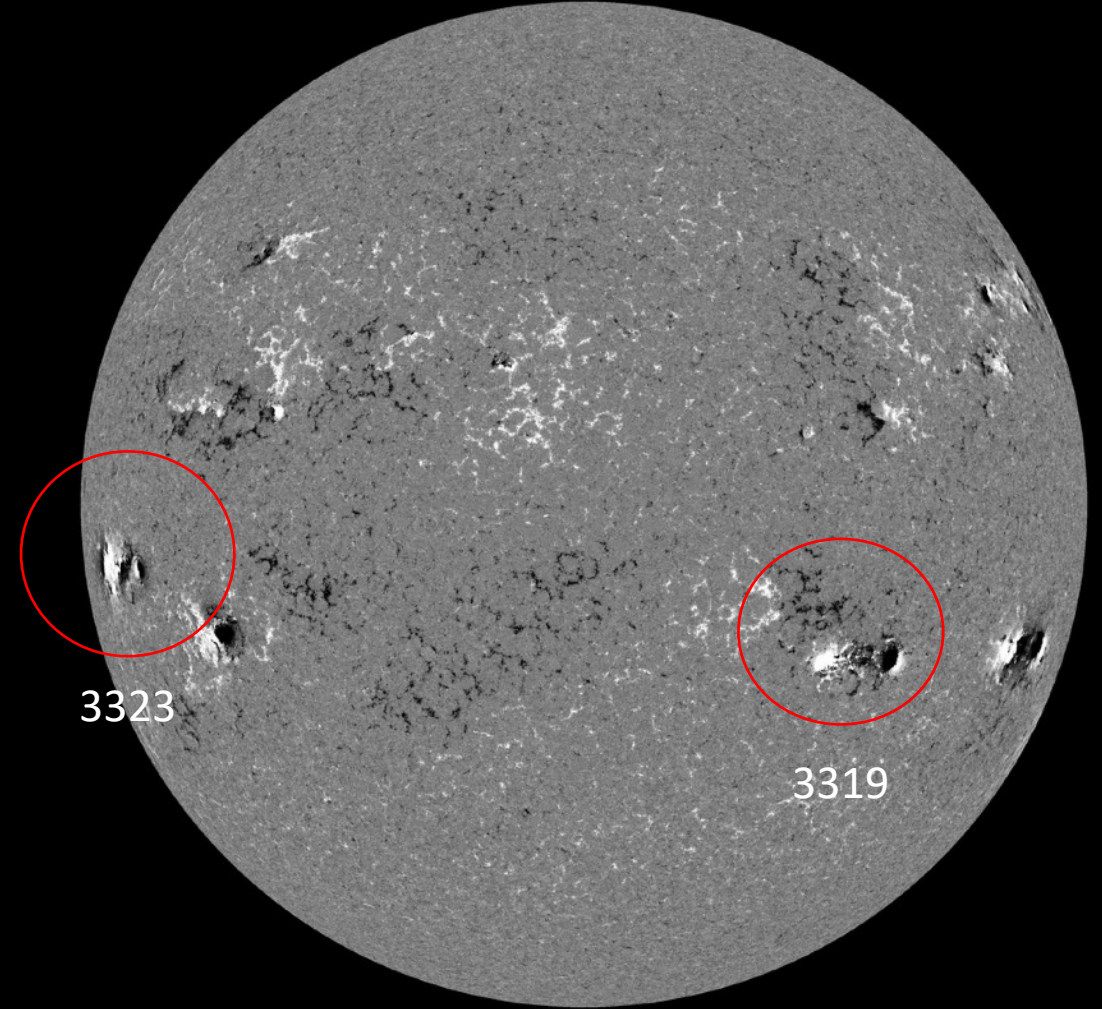
# Solar active regions

SDO/HMI White Light 2023-06-01



SDO/HMI Quick-Look Continuum: 20230601\_114500

SDO/HMI Magnetogram 2023-06-01



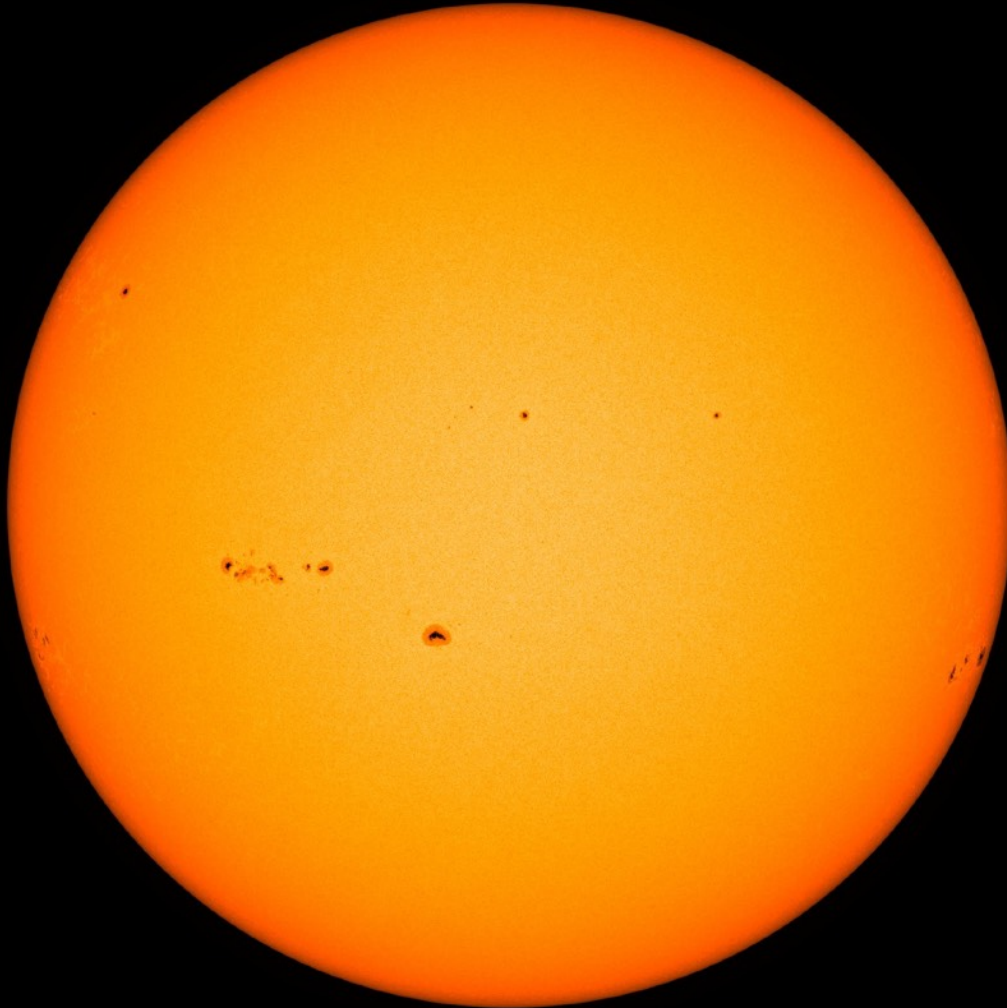
3323

3319

SDO/HMI Quick-Look Magnetogram: 20230601\_114500

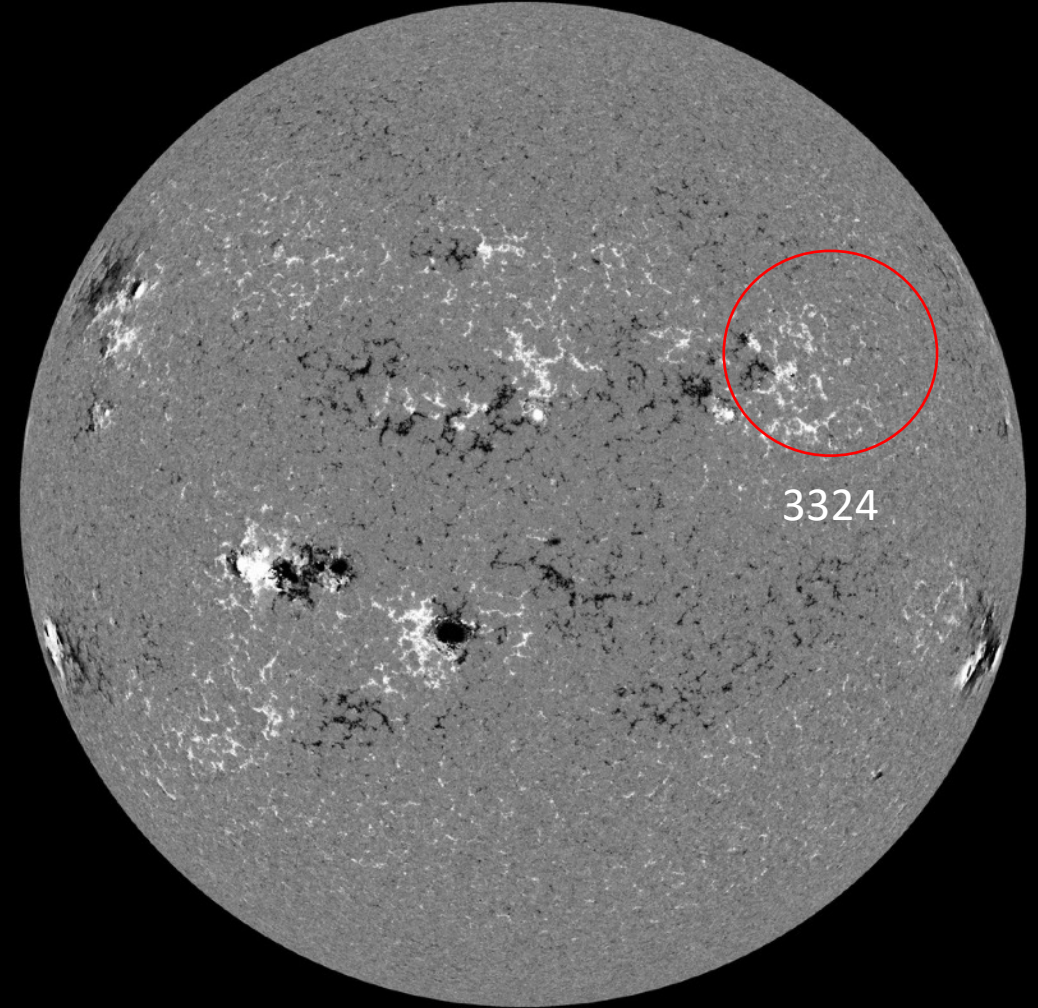
# Solar active regions

SDO/HMI White Light 2023-06-04



SDO/HMI Quick-Look Continuum: 20230604\_114500

SDO/HMI Magnetogram 2023-06-04

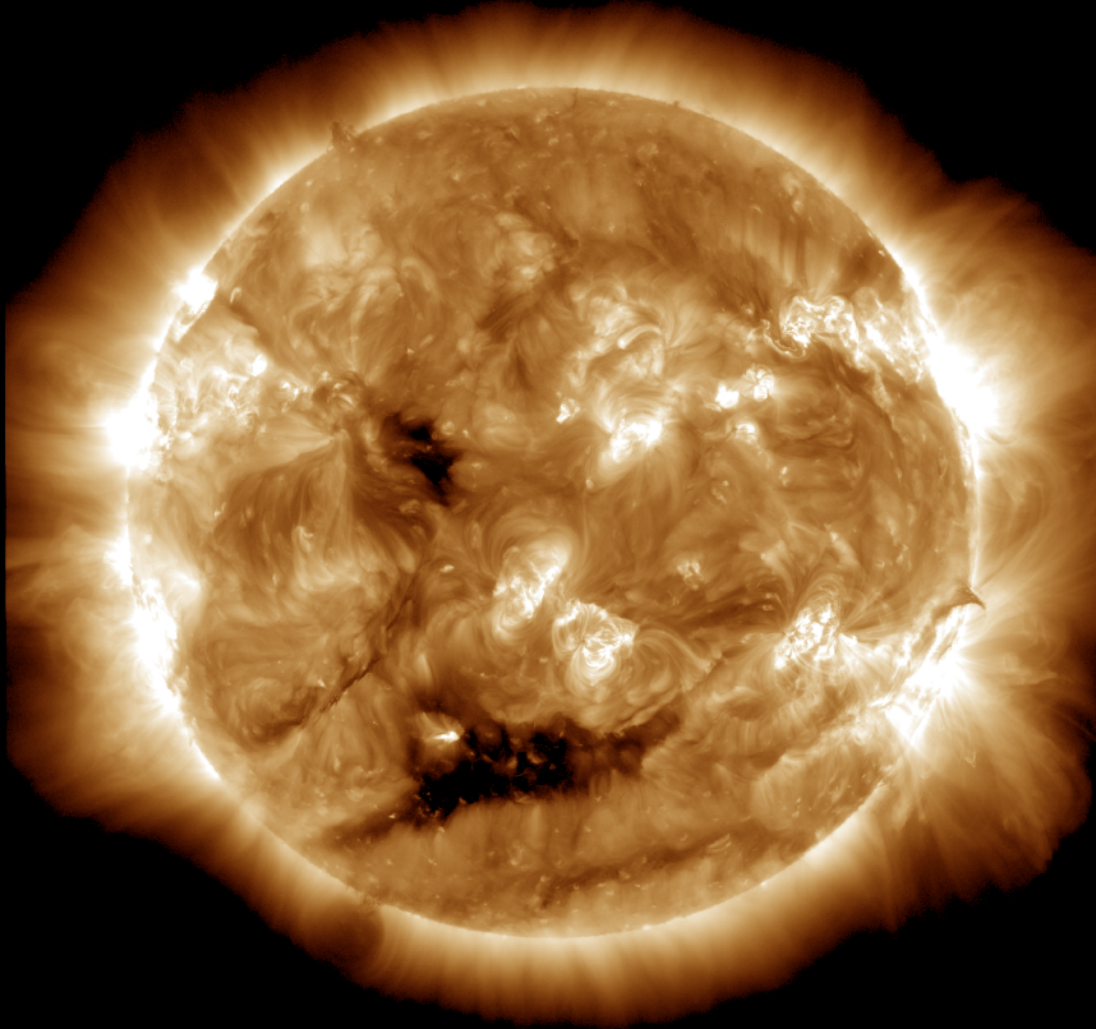


SDO/HMI Quick-Look Magnetogram: 20230604\_114500

# Coronal holes

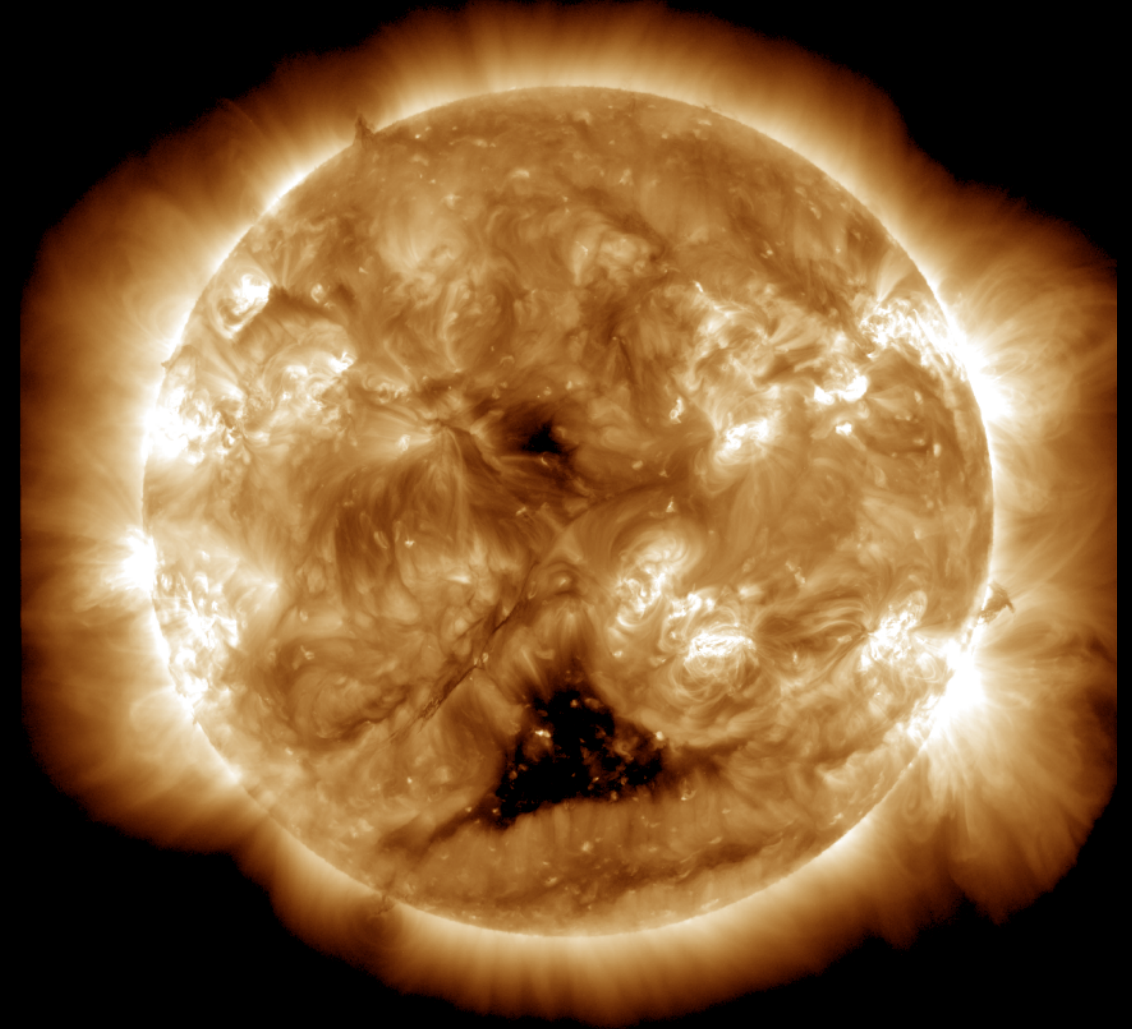
SDO/AIA 19.3 nm 2023-05-30

SDO/AIA AIA 193Å 2023-05-30T12:00:41.843

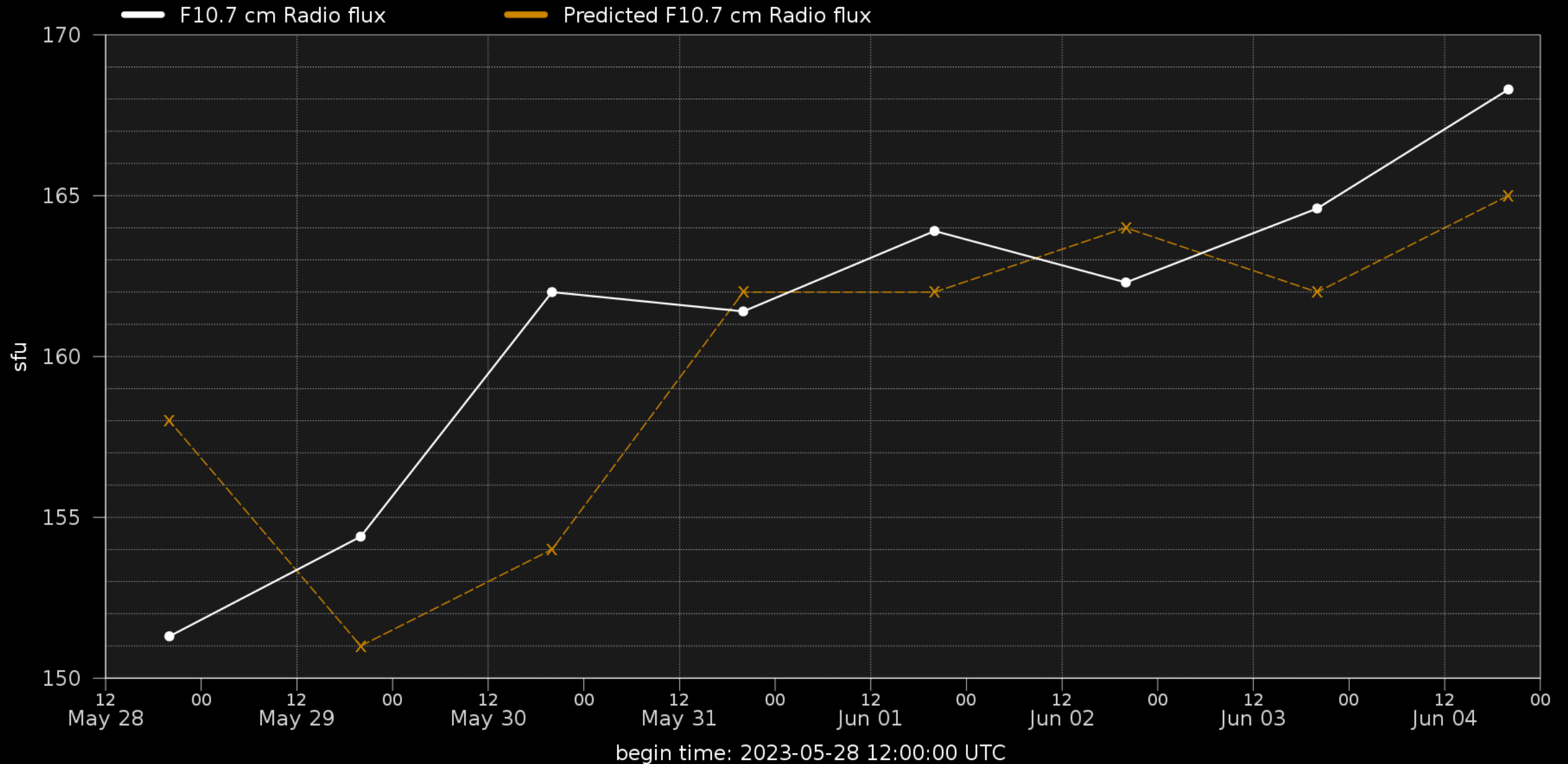


SDO/AIA 19.3 nm 2023-05-31

SDO/AIA AIA 193Å 2023-05-31T12:00:05.843

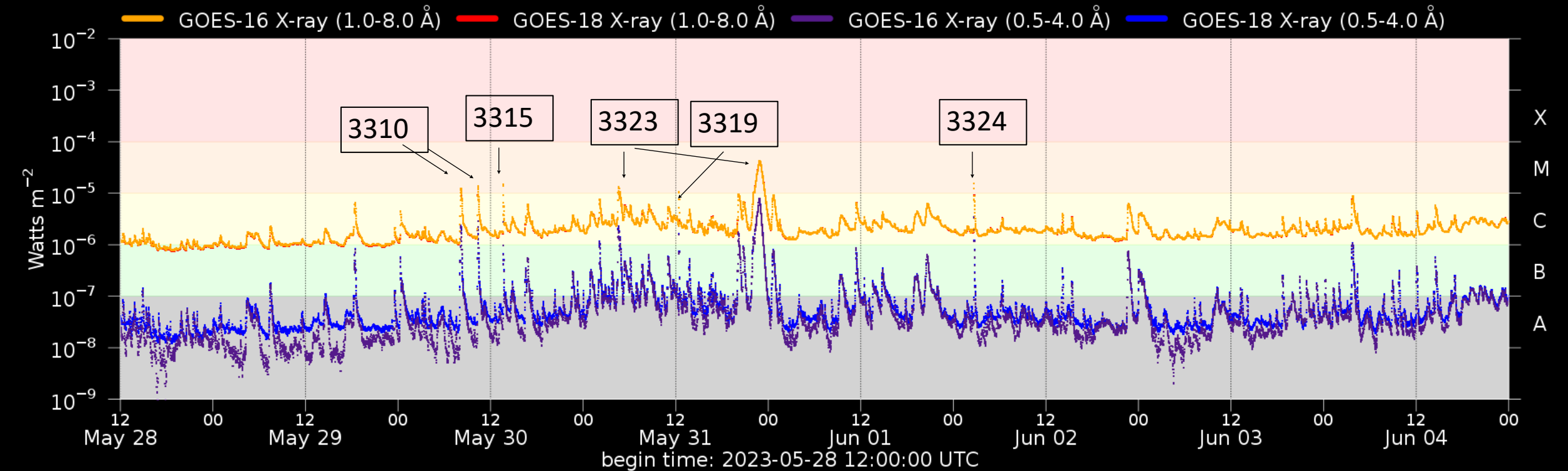


# Solar F10.7cm radio flux





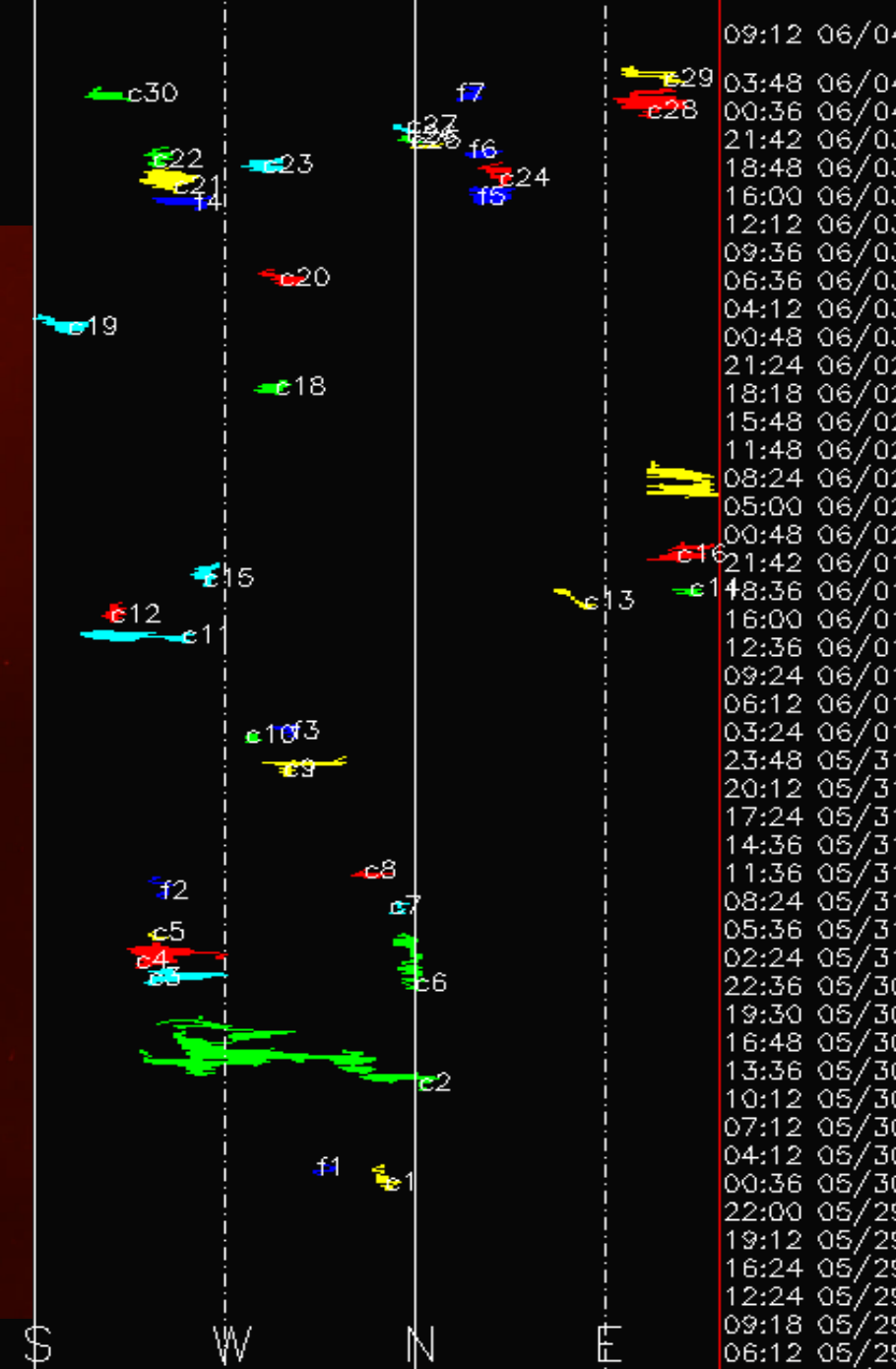
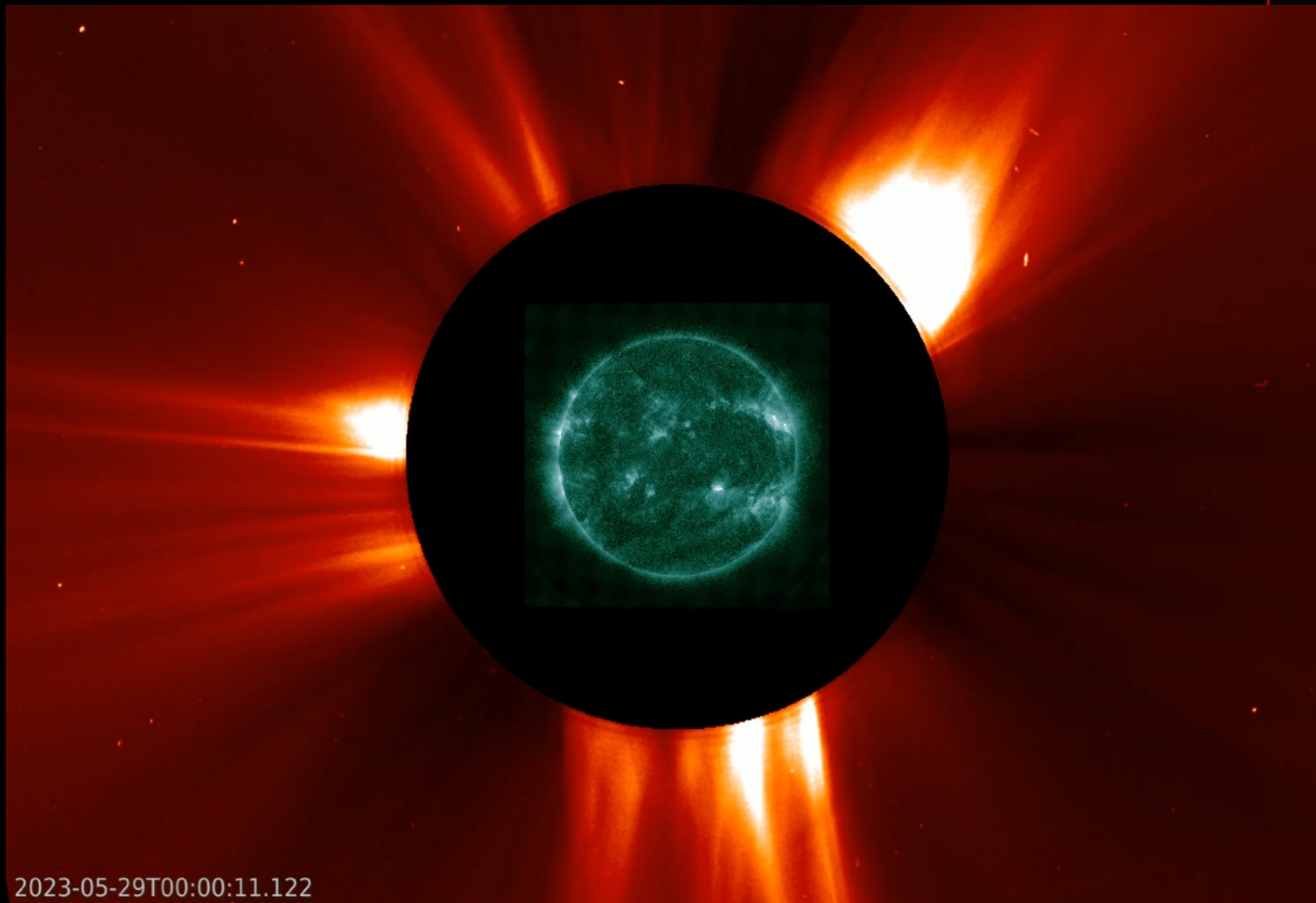
# Flaring activity



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

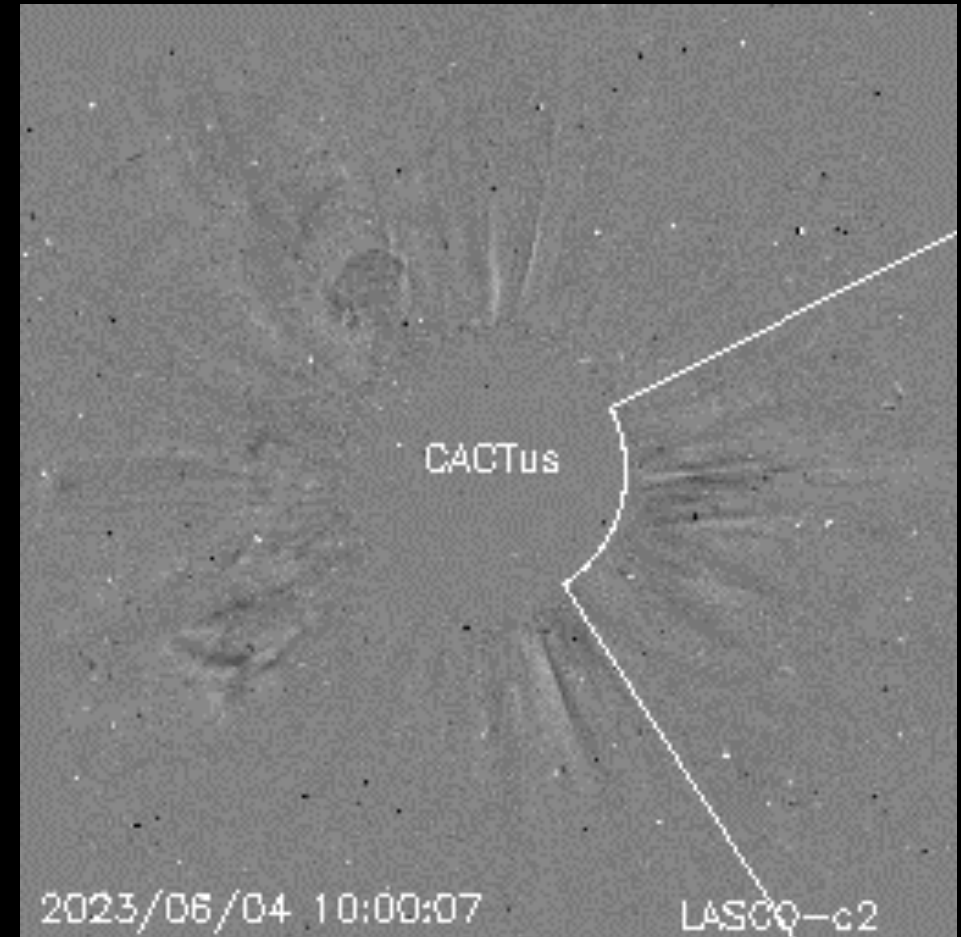
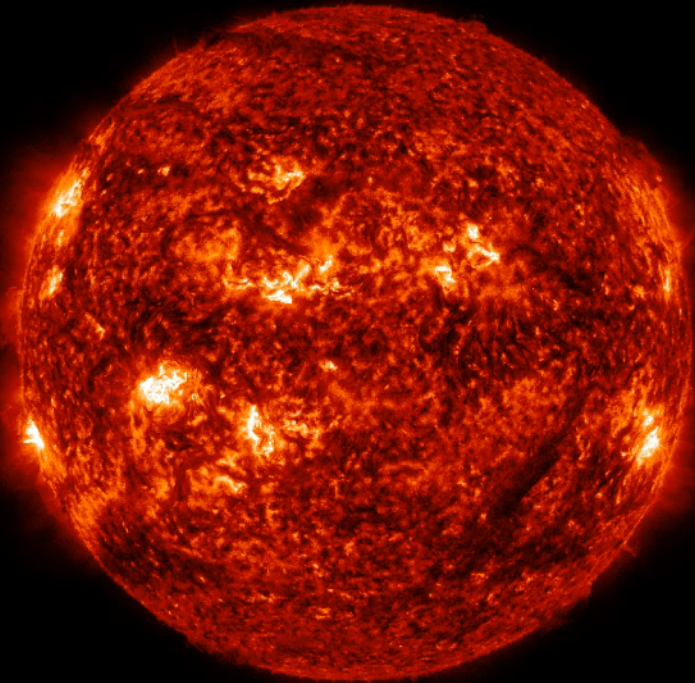
Issue date	2023-05-28	2023-05-29	2023-05-30	2023-05-31	2023-06-01	2023-06-02	2023-06-03	2023-06-04
Probability (%)	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	00 00 00	90 60 15
Observed (#)	02 00 00	05 02 00	08 02 00	08 02 00	03 01 00	05 00 00	09 00 00	02 00 00

# Coronal Mass Ejections



# Coronal Mass Ejections

# CME	t0	dt0	pa	da	v	dv	minv	maxv	halo?
0026	2023/06/04 10:36	02	255	084	0379	0075	0192	0529	



2023-06-04T00:00:05.129

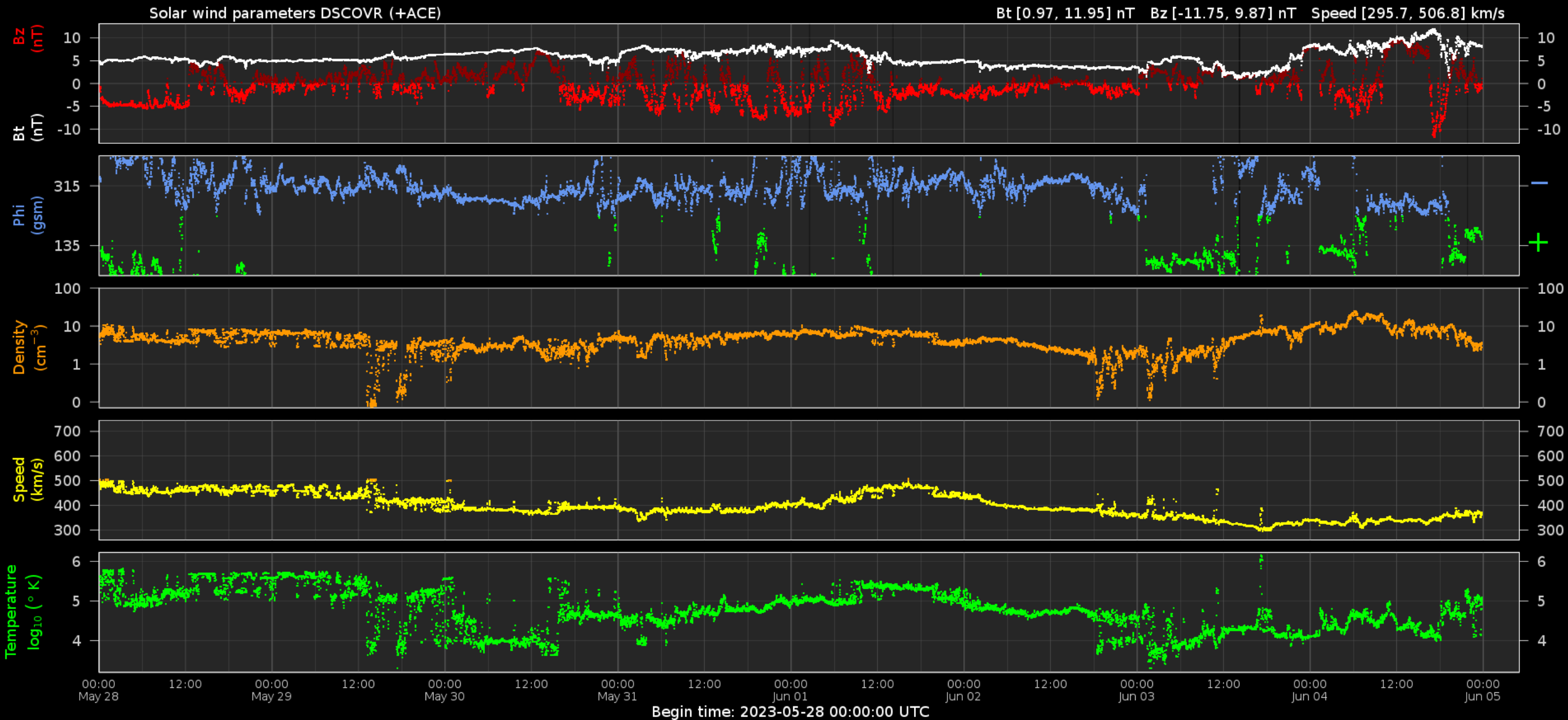
# Solar Wind and Geomagnetic Activity



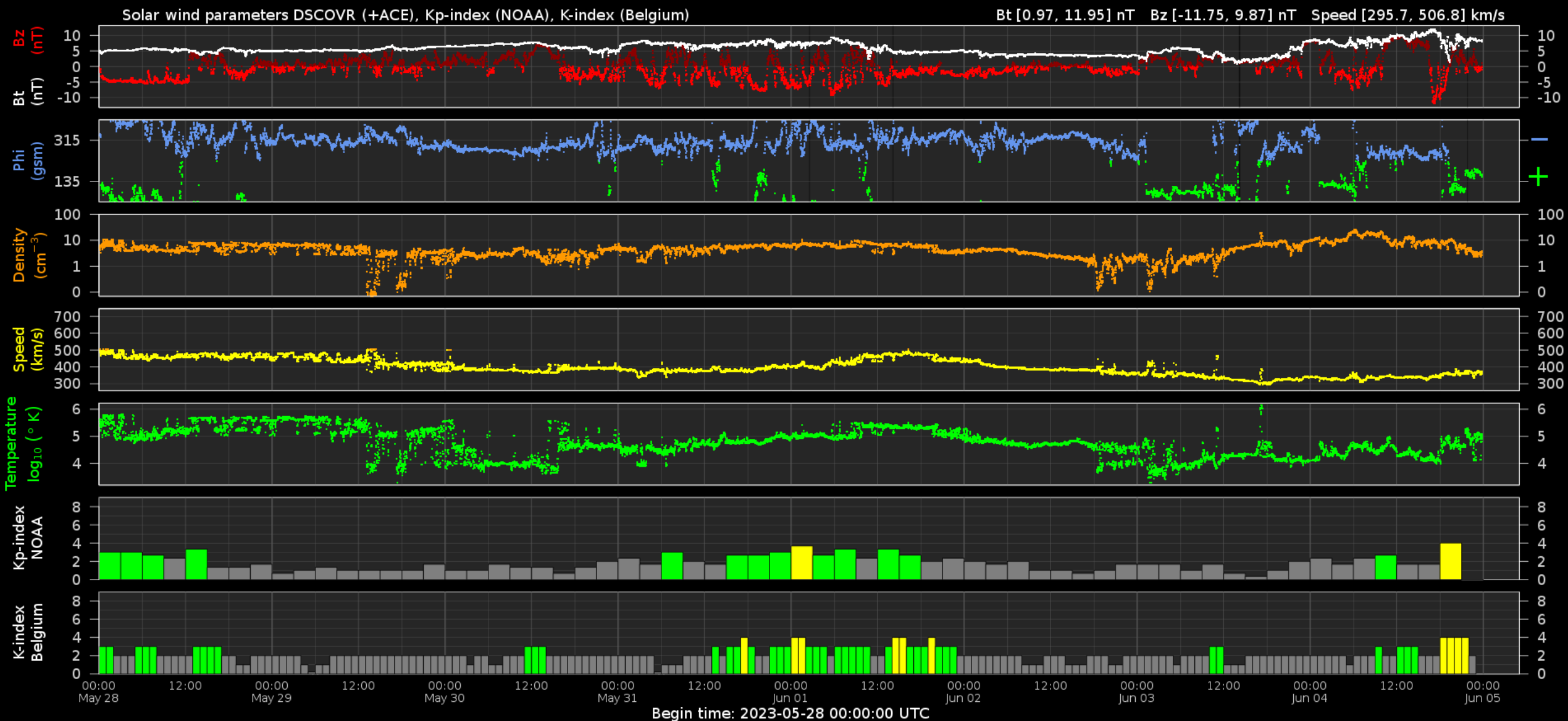
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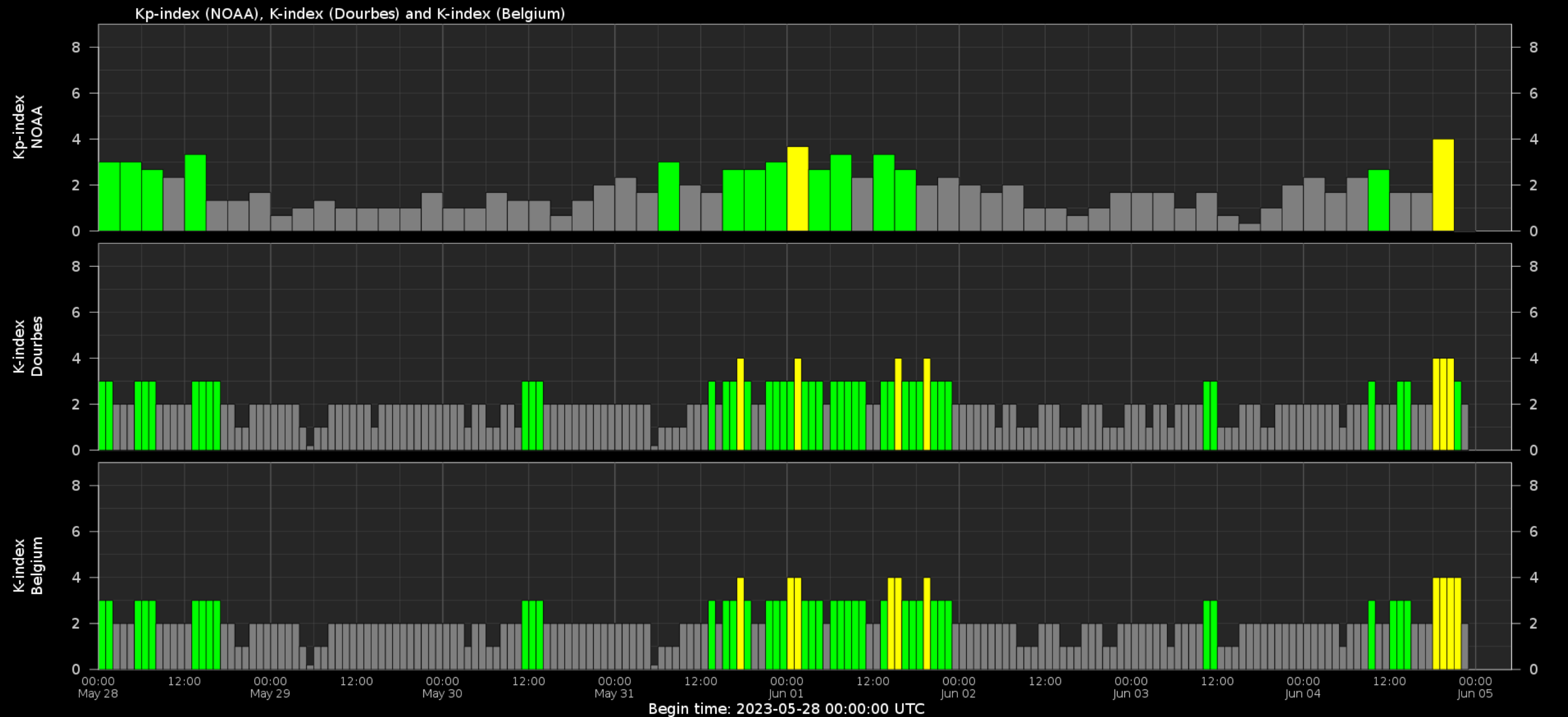
# Solar wind parameters



# Solar wind parameters & K-indices



# Geomagnetic activity (K-indexes)



# Energetic Particles

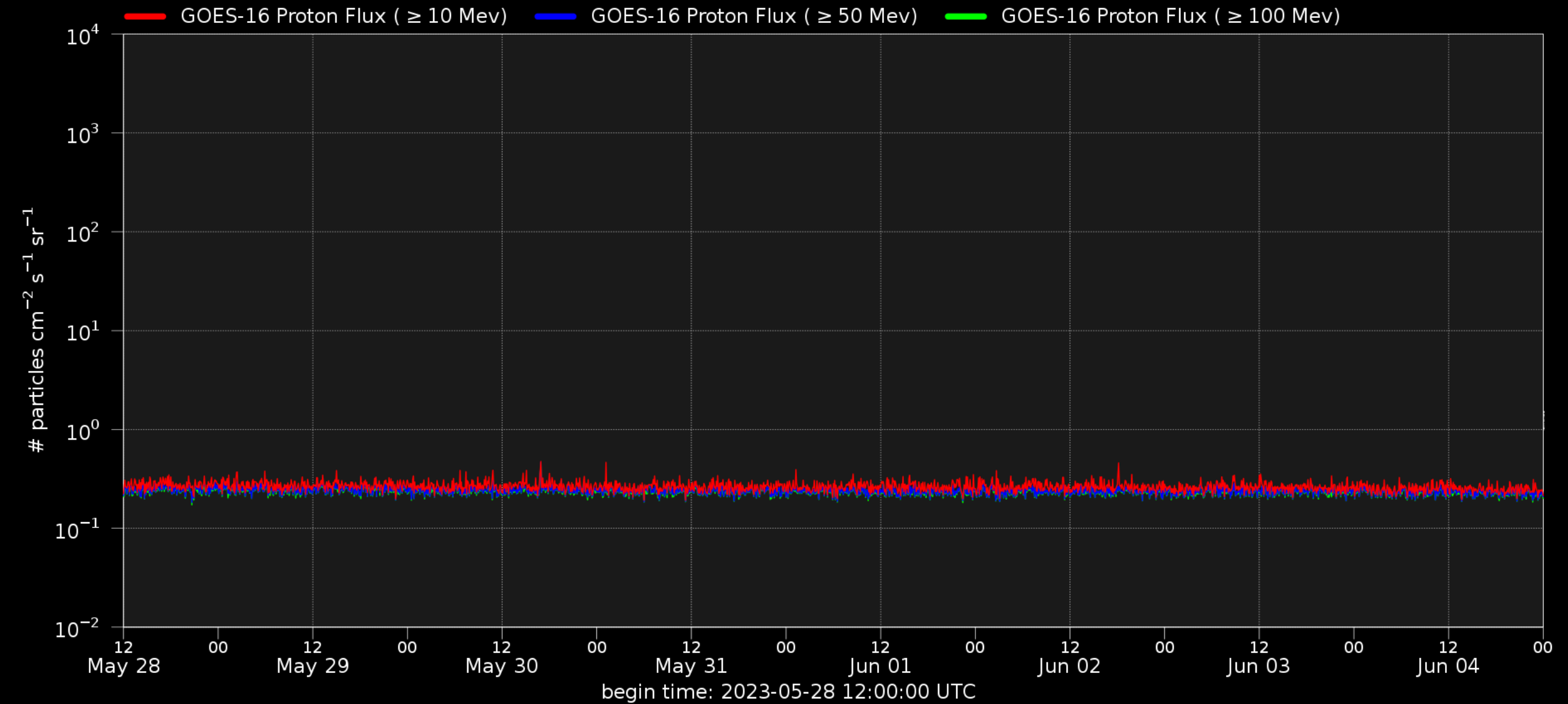


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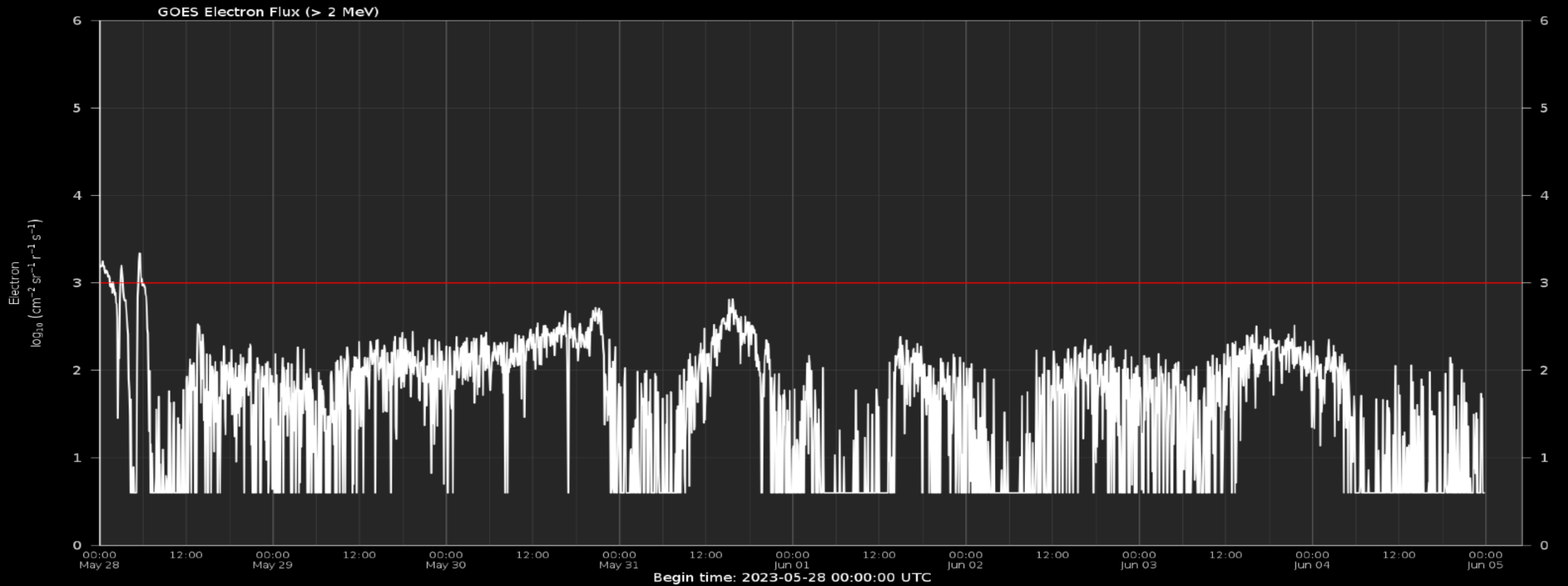
# Solar proton flux



# Electron flux at GEO

[www.stce.be/educational/classification#electrons](http://www.stce.be/educational/classification#electrons)

[www.spaceweather.gc.ca/forecast-prevision/space-spatiale/sffl-en.php](http://www.spaceweather.gc.ca/forecast-prevision/space-spatiale/sffl-en.php)



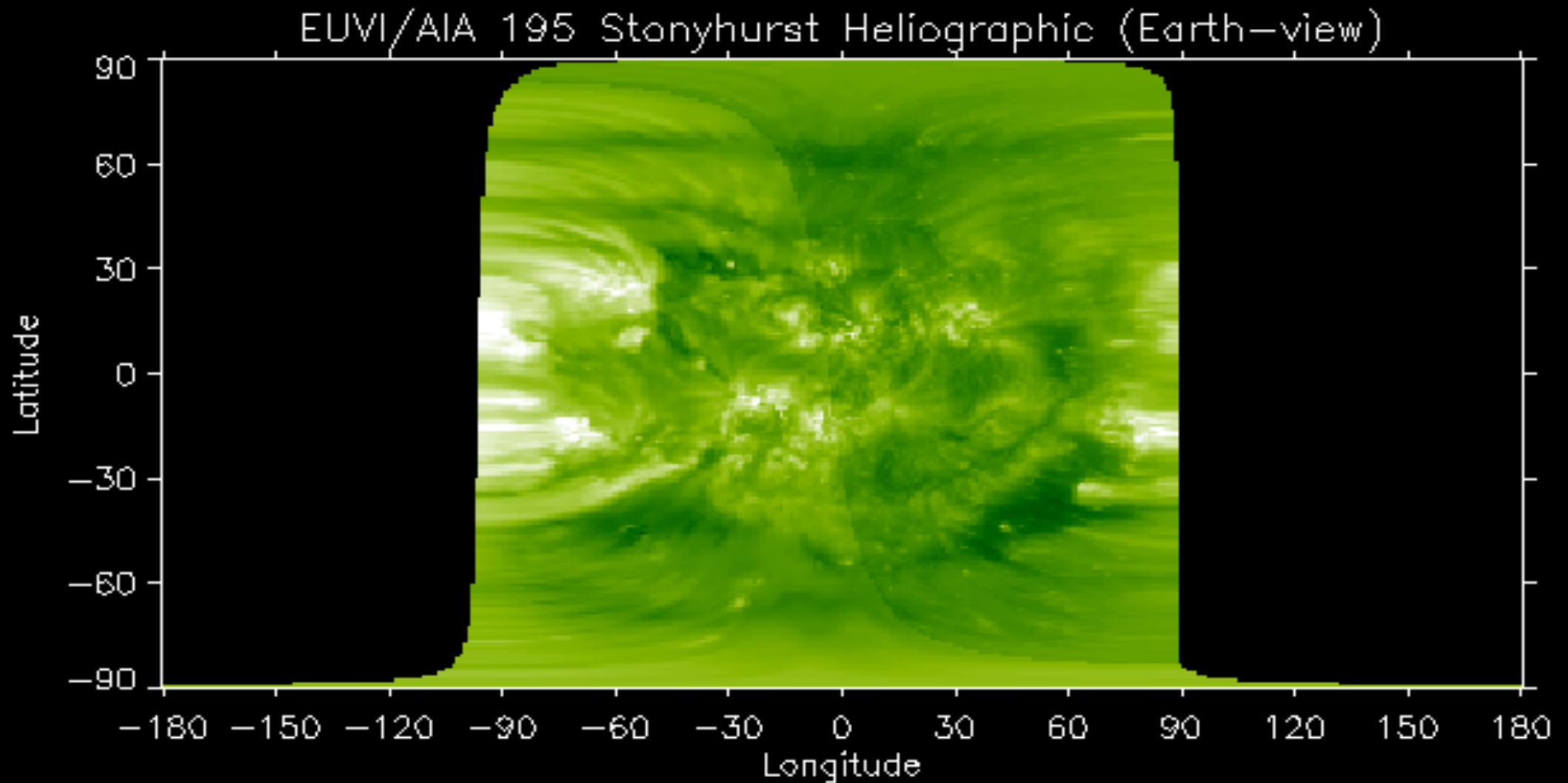
# Outlook



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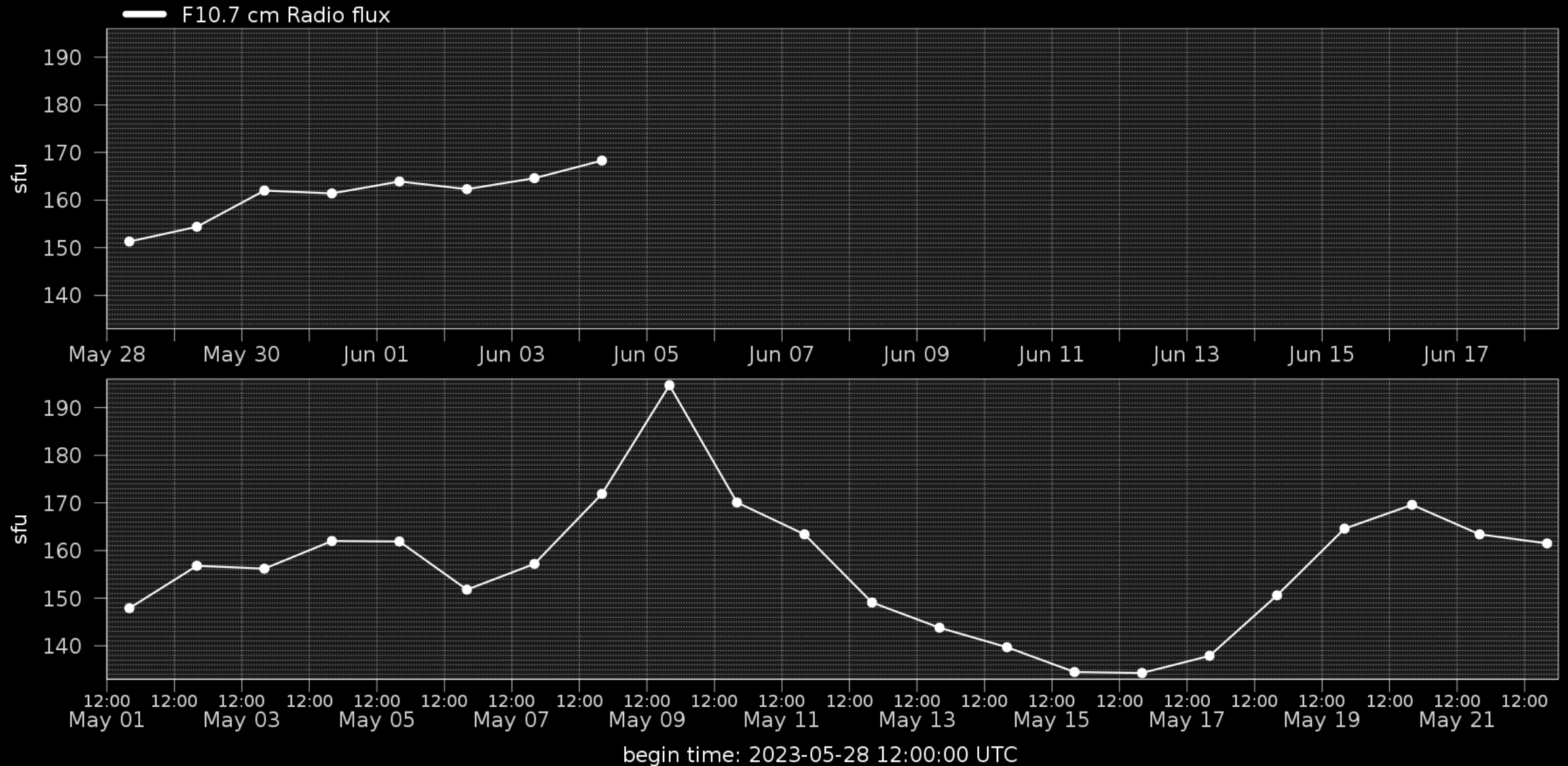
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# Outlook: Solar activity



Observation date: 2023/06/04 23:05:00

# Outlook: Solar F10.7cm radio flux



# Outlook: Solar wind parameters



# Outlook: Geomagnetic activity



# Pegasus



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# Pegasus related events

No advisories sent during the week

# SIDC Space Weather Briefing

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