SIDC Space Weather Briefing

15 June 2026-22 June 2026

Luciano Rodriguez

& the SIDC forecaster team

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-06-15 00:00 to 2026-06-21 23:59

Active regions	SIDC 873 (NOAA 4472) and SIDC 885 (NOAA 4473)
Flares	# C-class flare: 25 # M-class flare: 4 # X-class flare: 0
Coronal Holes	Only small ones
CMEs	None Earth directed

Proton flux	Below threshold
Electron flux	Mostly below threshold

Solar wind and geomagnetic conditions

ICMEs	One (from a CME in the previous week)
Solar wind conditions	|B|: 0.91 - 12.43 nT //Bz: -7.86 - 11.42 nT //Speed: 550 km/s
Geomagnetic conditions	max KBel: 3.0, max Kp(NOAA): 3.0, Unsettled conditions

All Quiet Alert: Off

Solar Activity

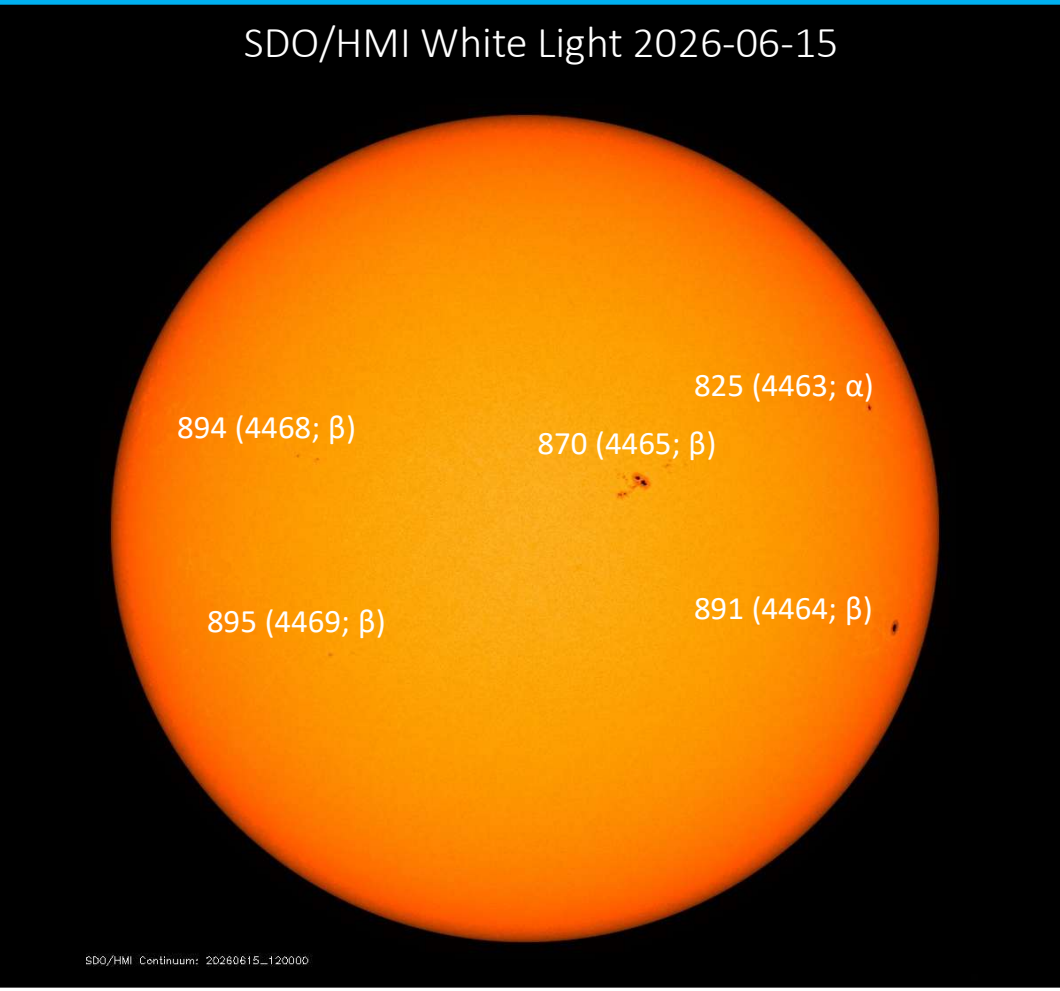


Royal Observatory
of Belgium

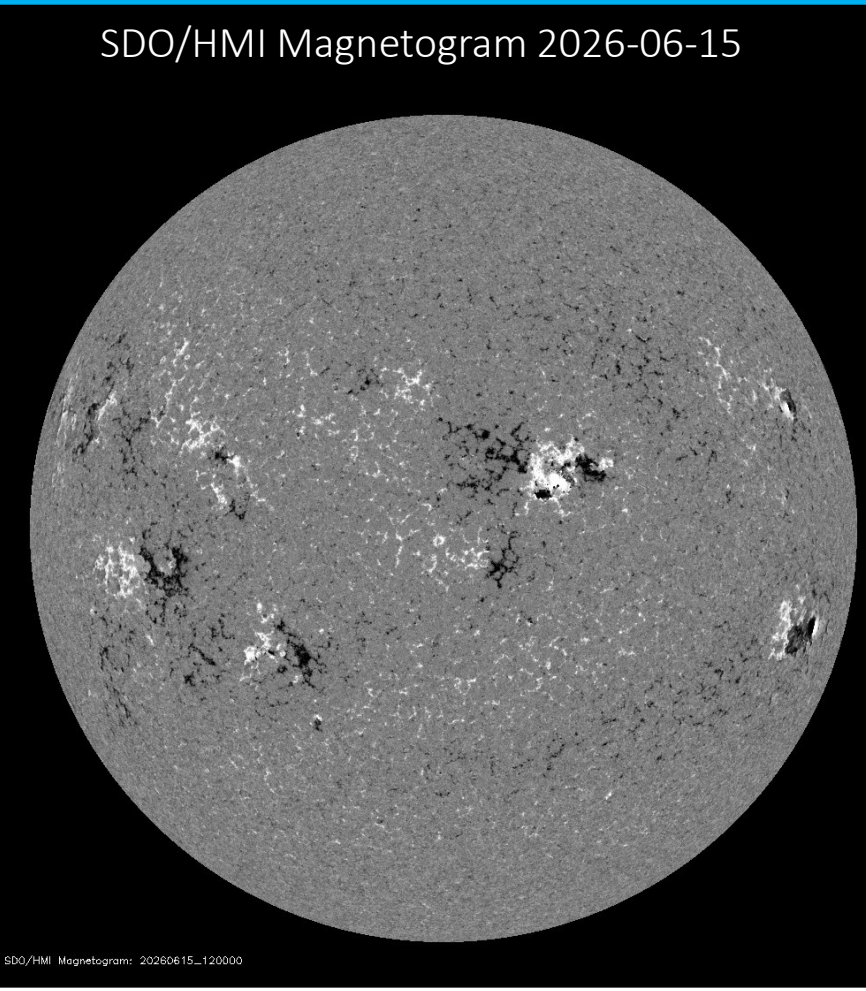
Solar Influences
Data analysis Centre
www.sidc.be

Solar active regions

SDO/HMI White Light 2026-06-15

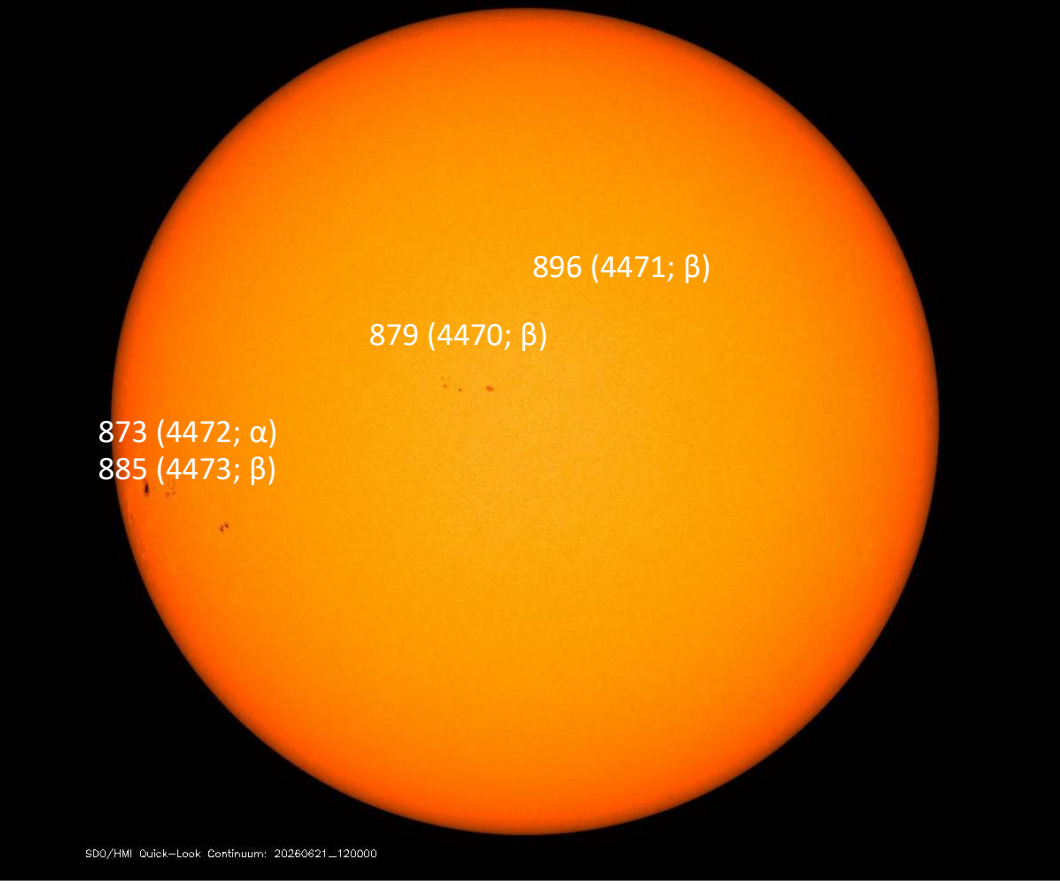


SDO/HMI Magnetogram 2026-06-15

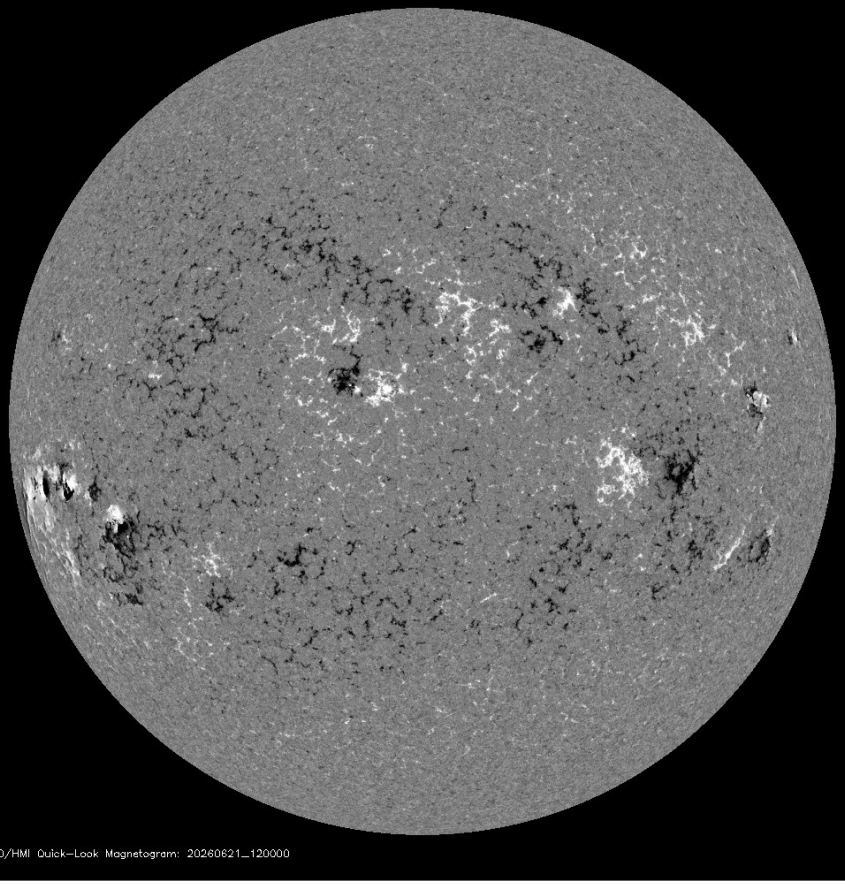


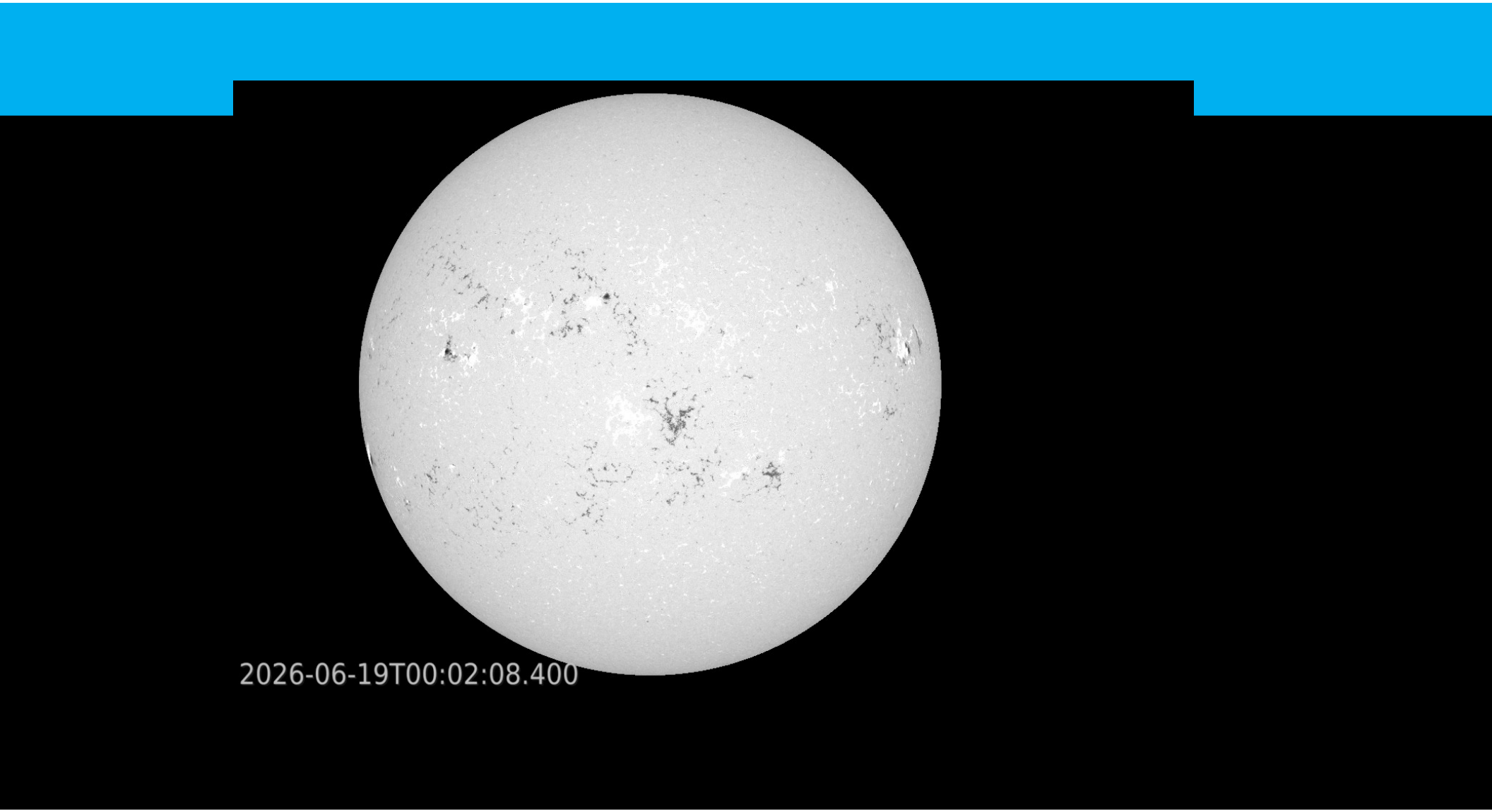
Solar active regions

SDO/HMI White Light 2026-06-21

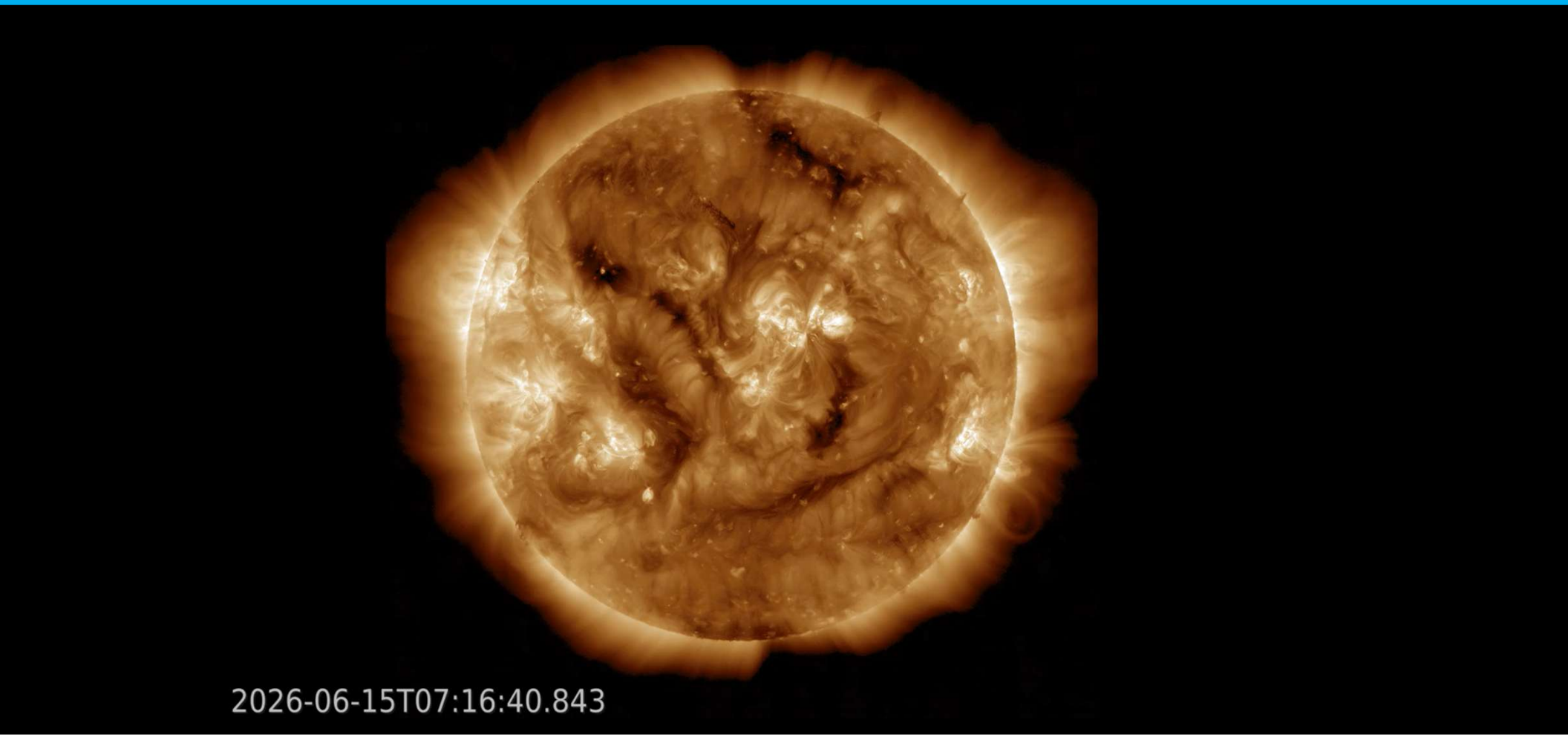


SDO/HMI Magnetogram 2026-06-21

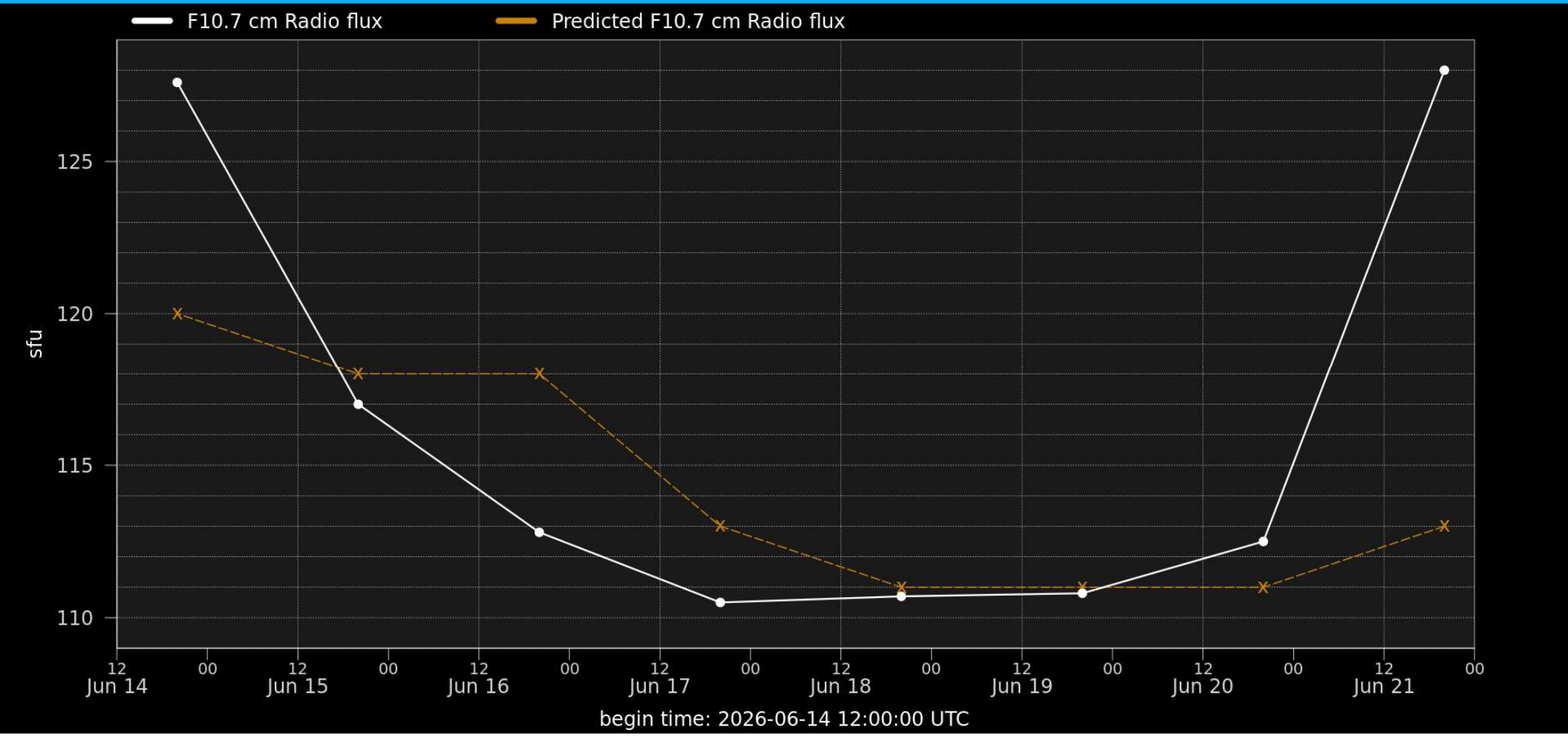



2026-06-19T00:02:08.400

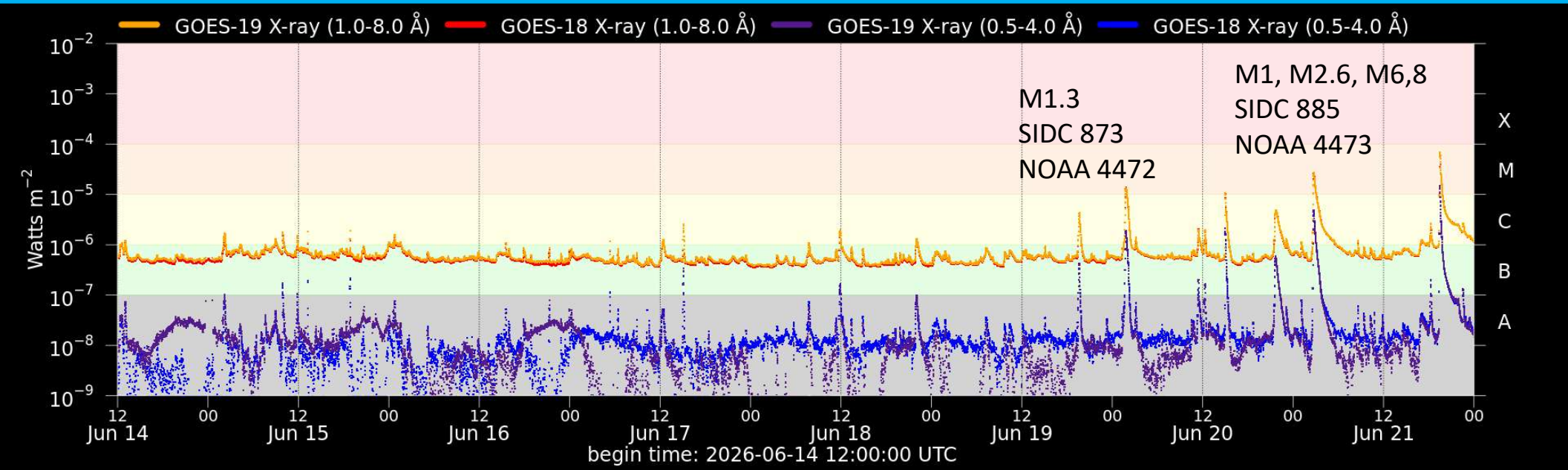
Coronal holes



Solar F10.7cm radio flux

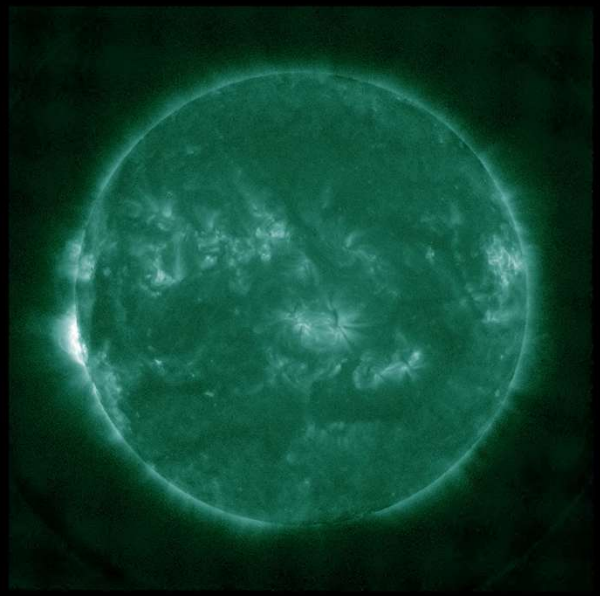


Flaring activity

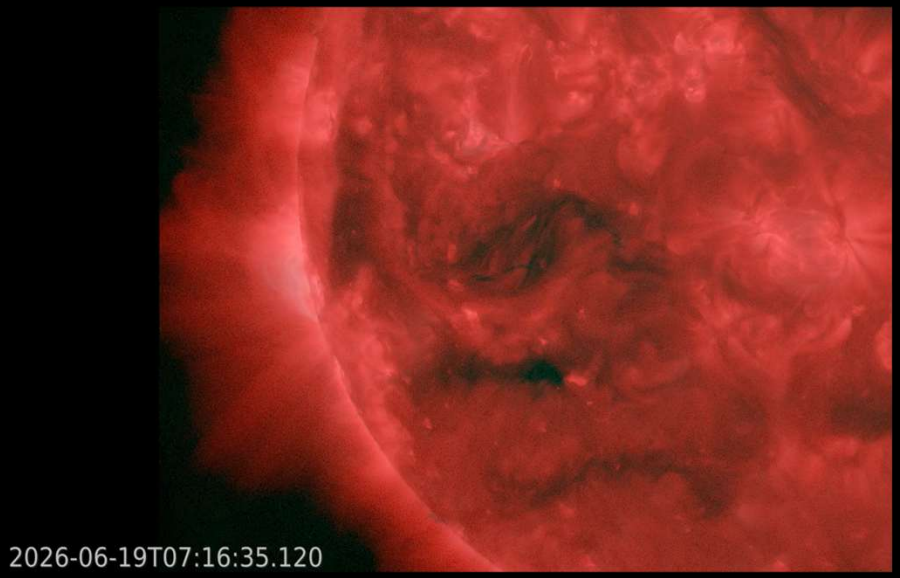


Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2026-06-14	2026-06-15	2026-06-16	2026-06-17	2026-06-18	2026-06-19	2026-06-20	2026-06-21
Probability (%)	80|15|01	66|17|01	76|10|01	77|19|01	62|11|01	56|11|01	94|52|13	97|63|15
Observed (#)	05|00|00	03|00|00	02|00|00	04|00|00	01|00|00	03|01|00	05|02|00	02|01|00

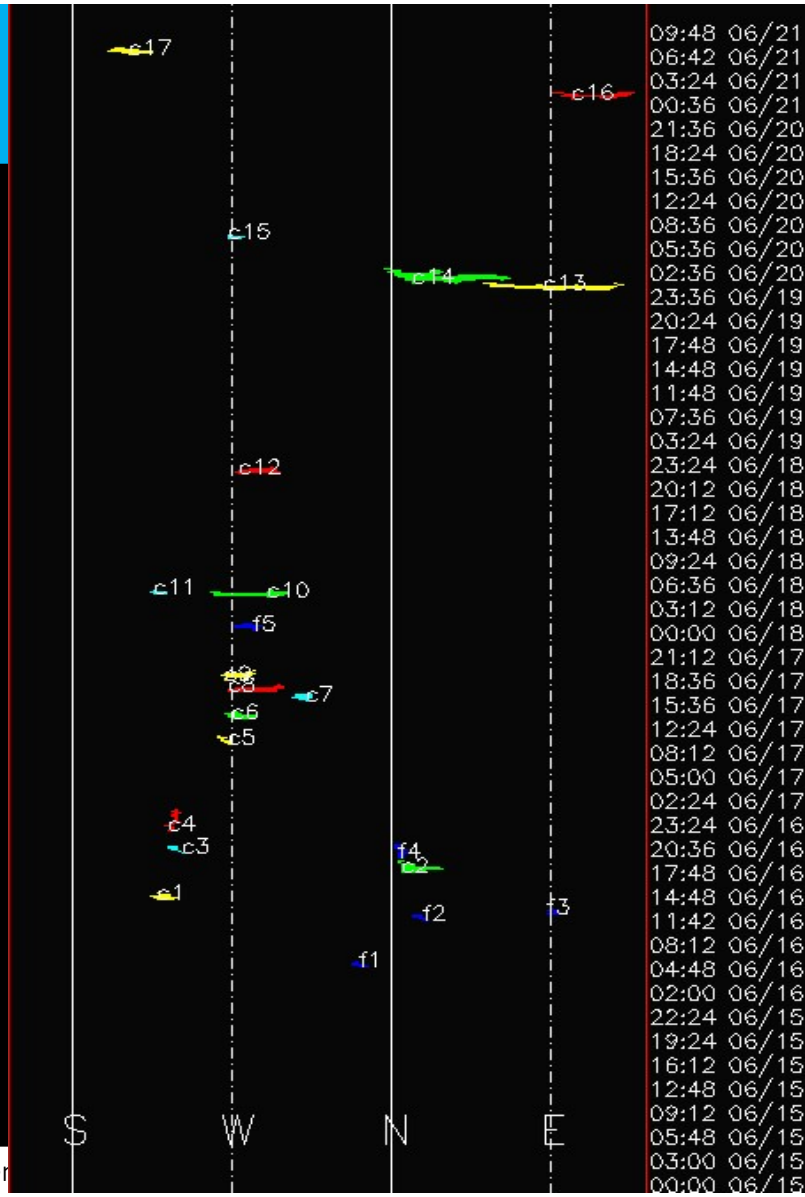


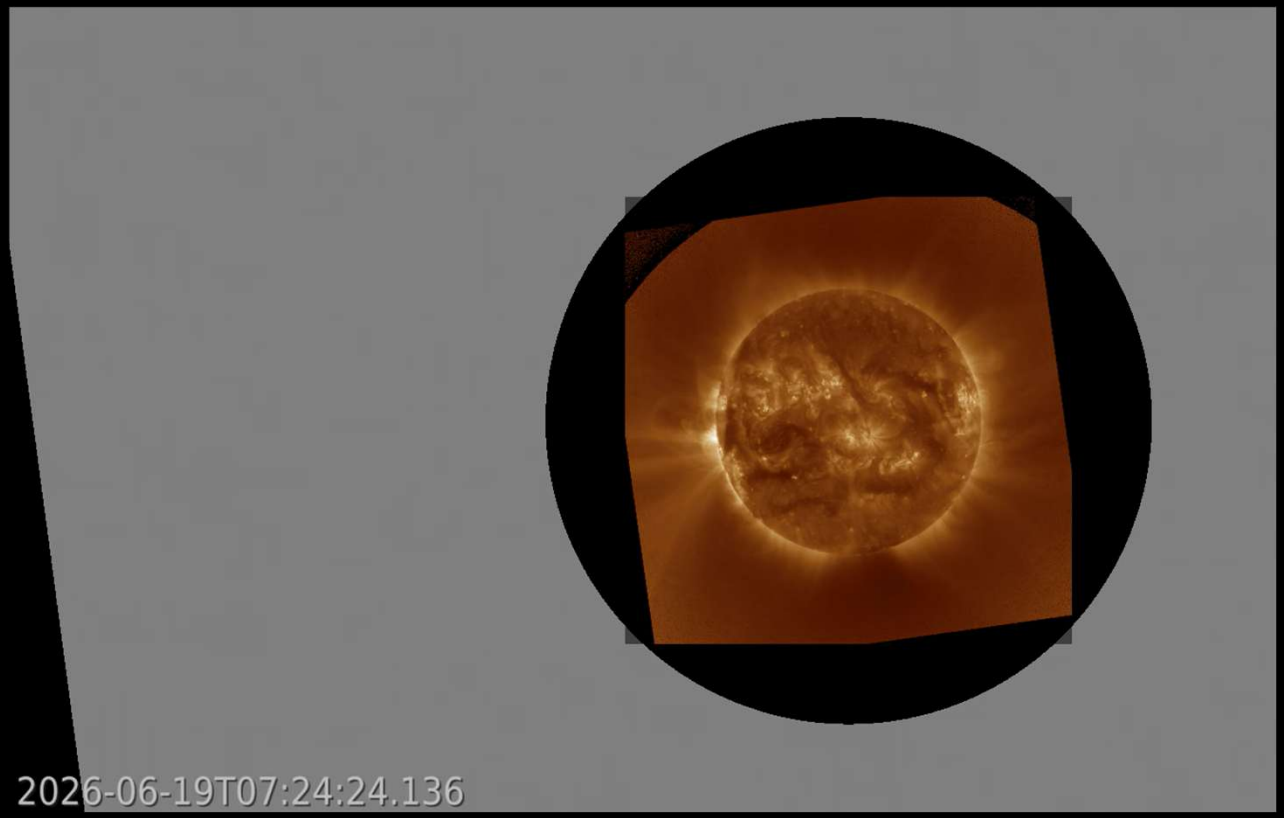
2026-06-19T07:16:35.120


2026-06-19T07:16:35.120

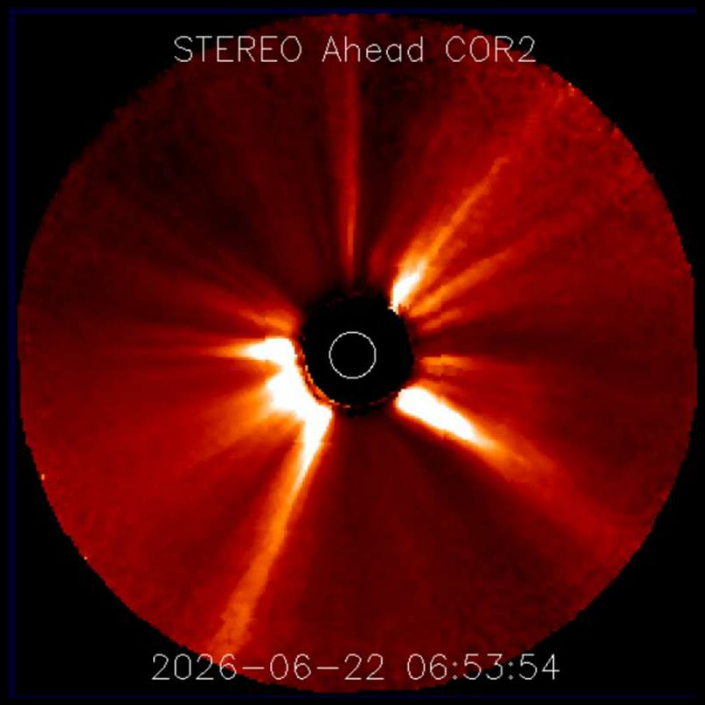
Coronal Mass Ejections

- Three CMEs related to the M class flares on 20 and 21 June.
- The M2.6 flare on June 20 had no associated CME.
- Only the last one with a posible Earth component.




2026-06-19T07:24:24.136

Coronal Mass Ejections

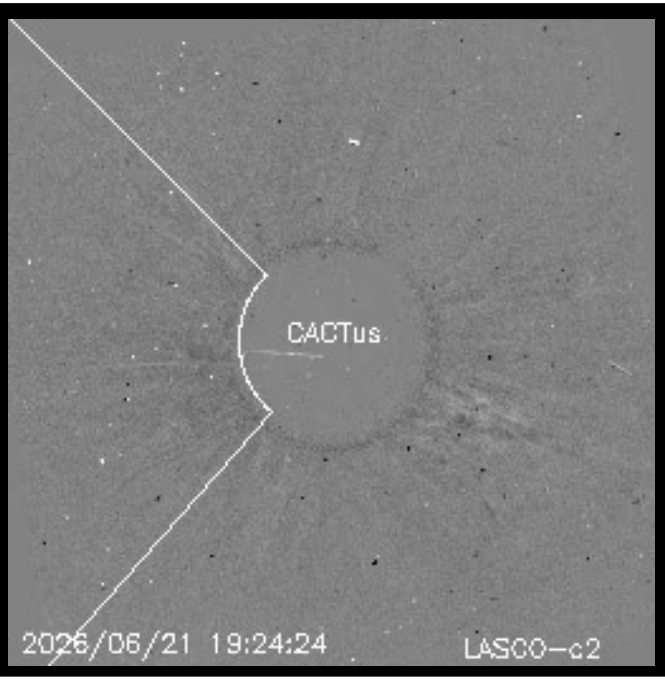


CACTUS

A software package for 'Computer Aided CME Tracking'

Details and graphs for CME0015

# CME	t0	dt0	pa	da	v	dv	minv	maxv	halo?
0015	2026/06/21 20:00	01	092	094	0222	0057	0107	0374	II



Solar Wind and

Geomagnetic Activity



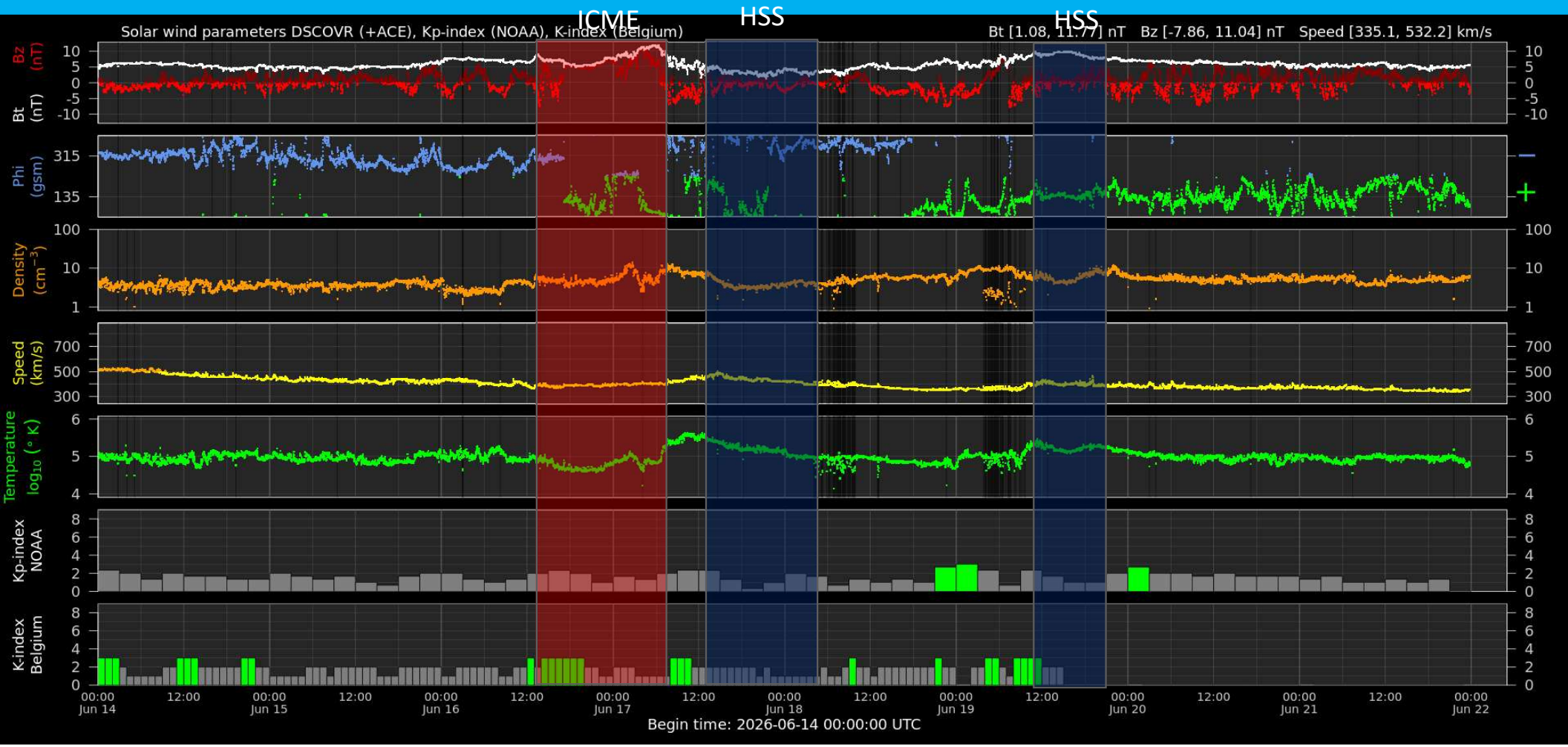
Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

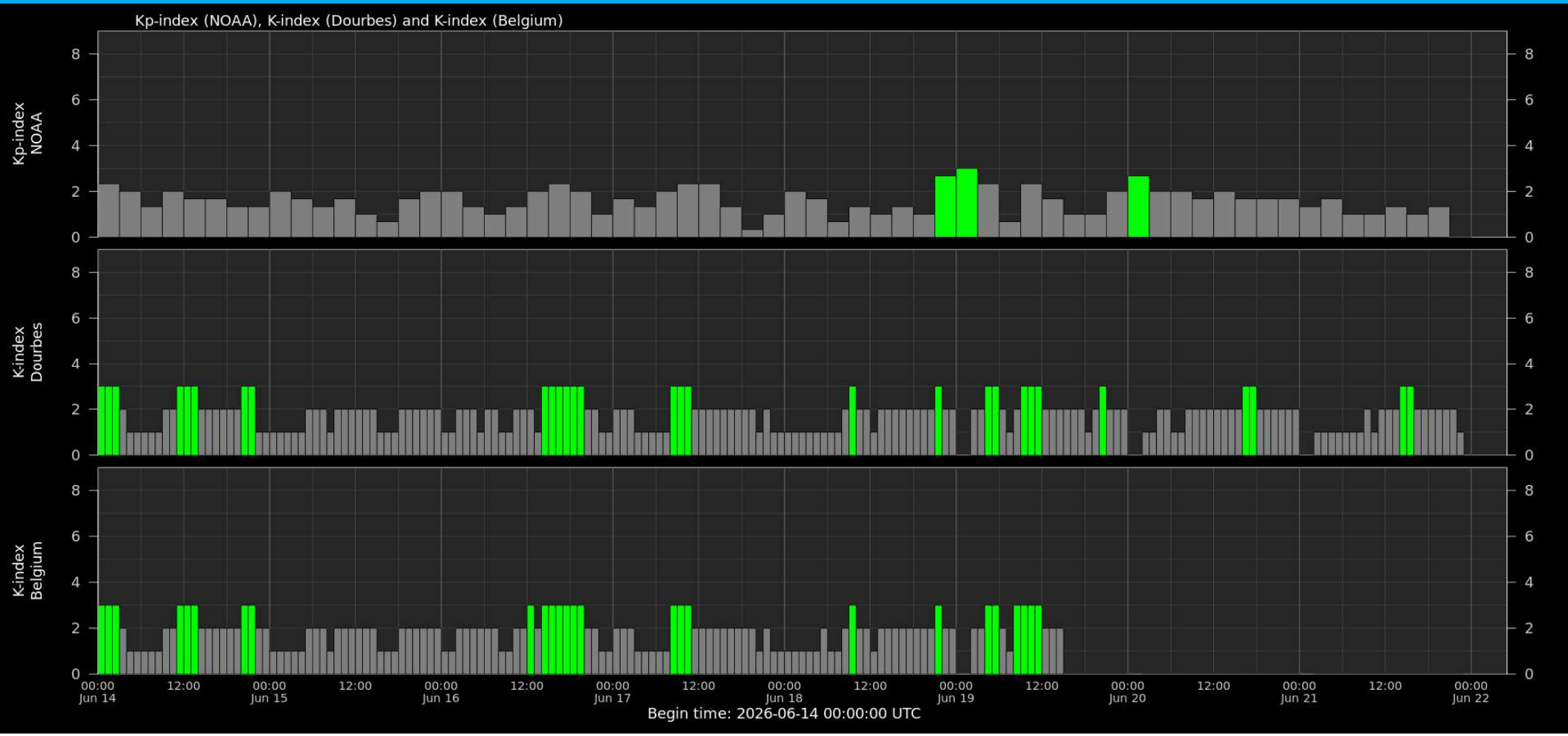
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



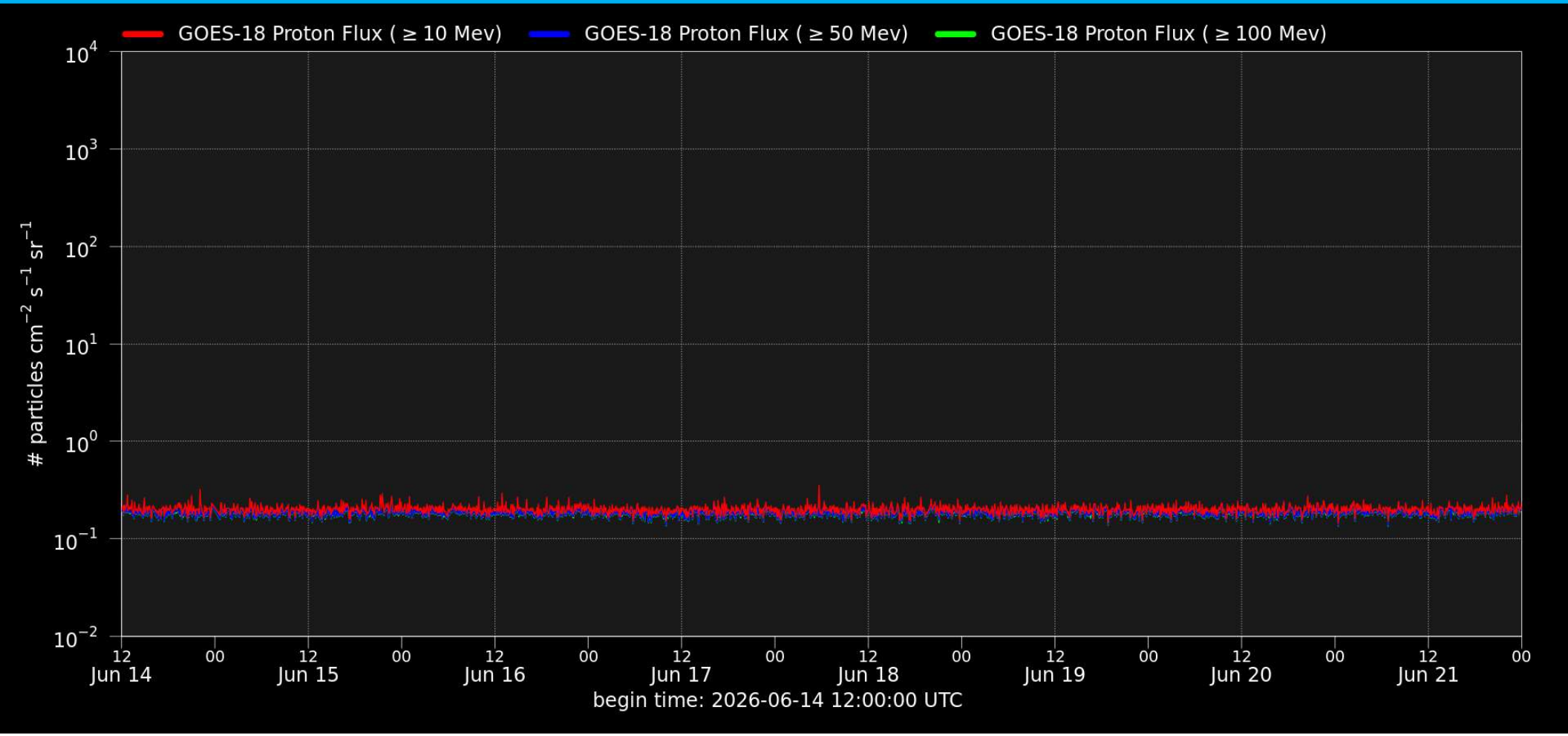
Energetic Particles



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

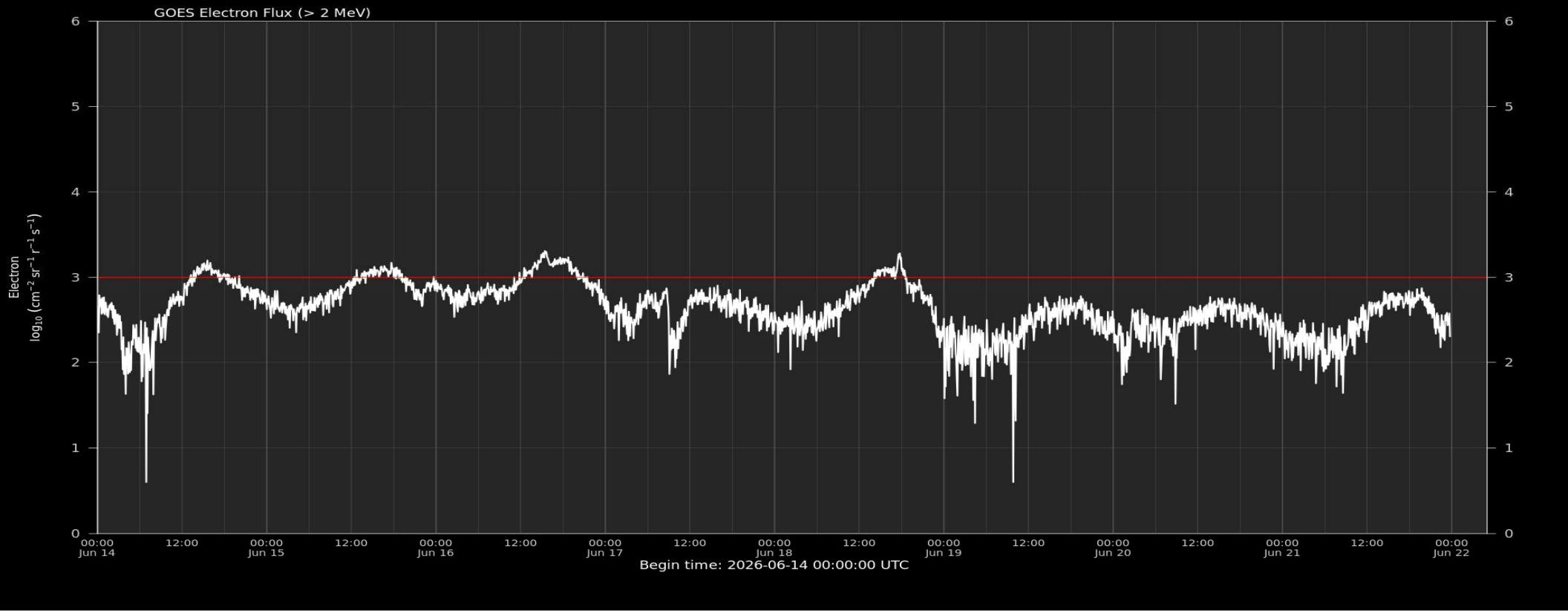
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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

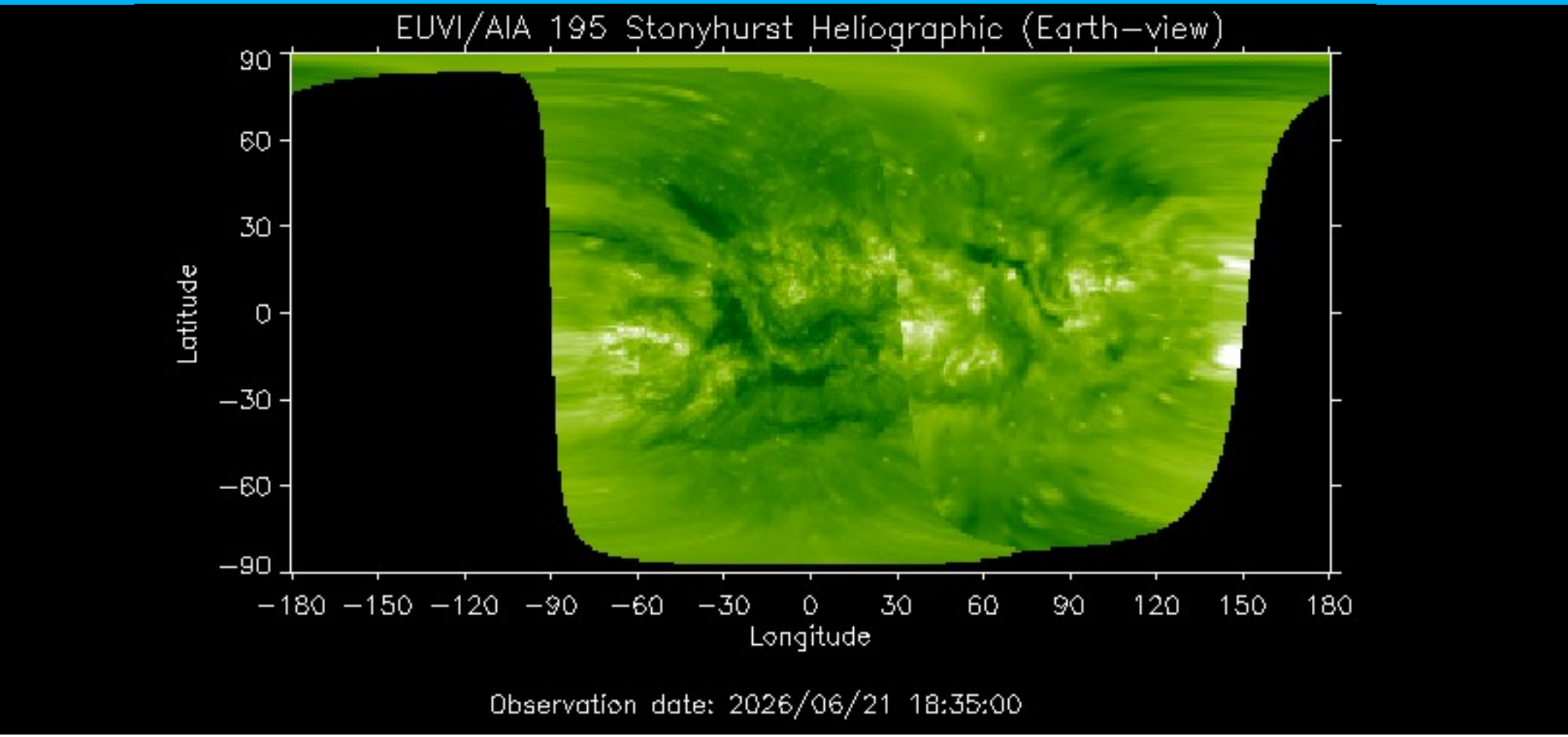


Outlook

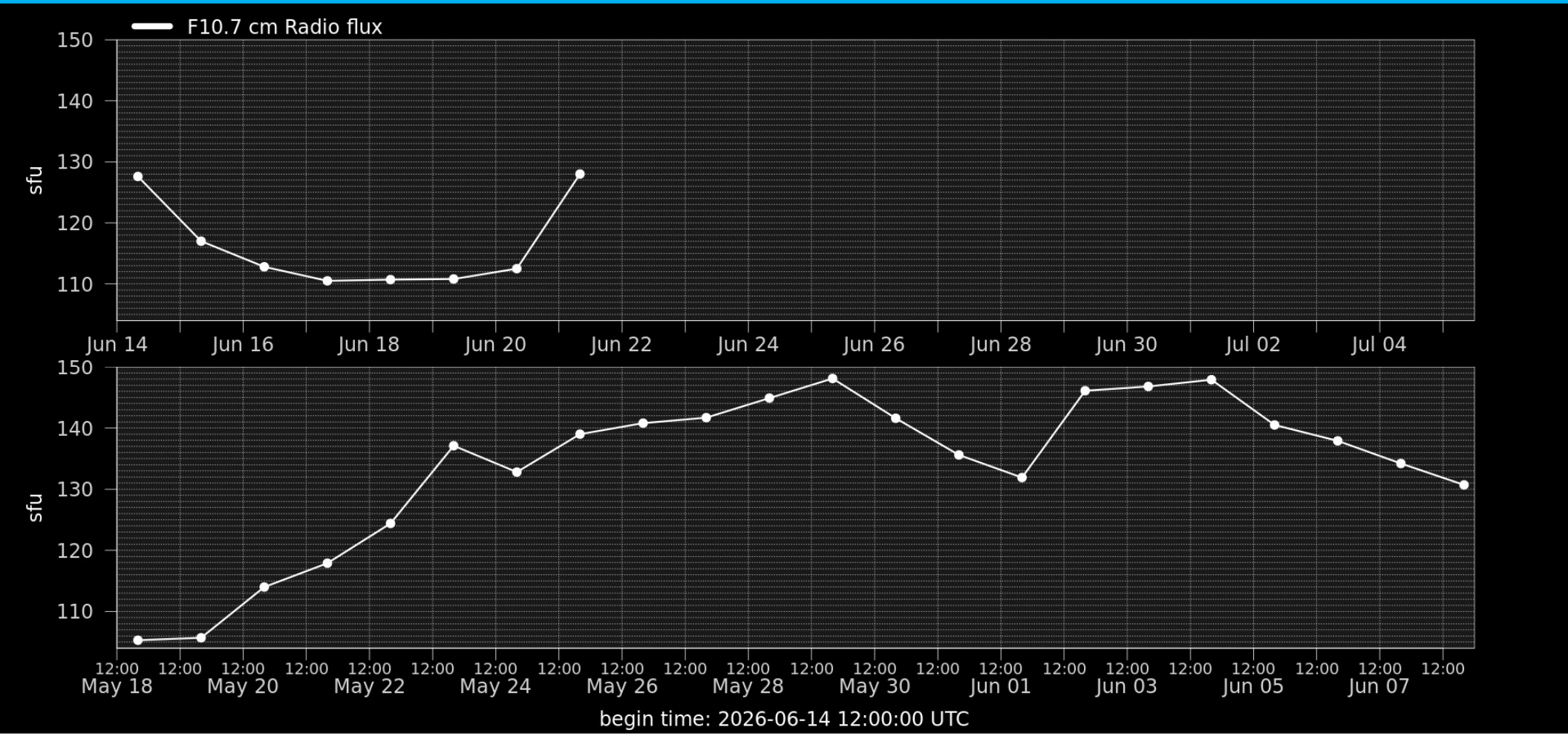
Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

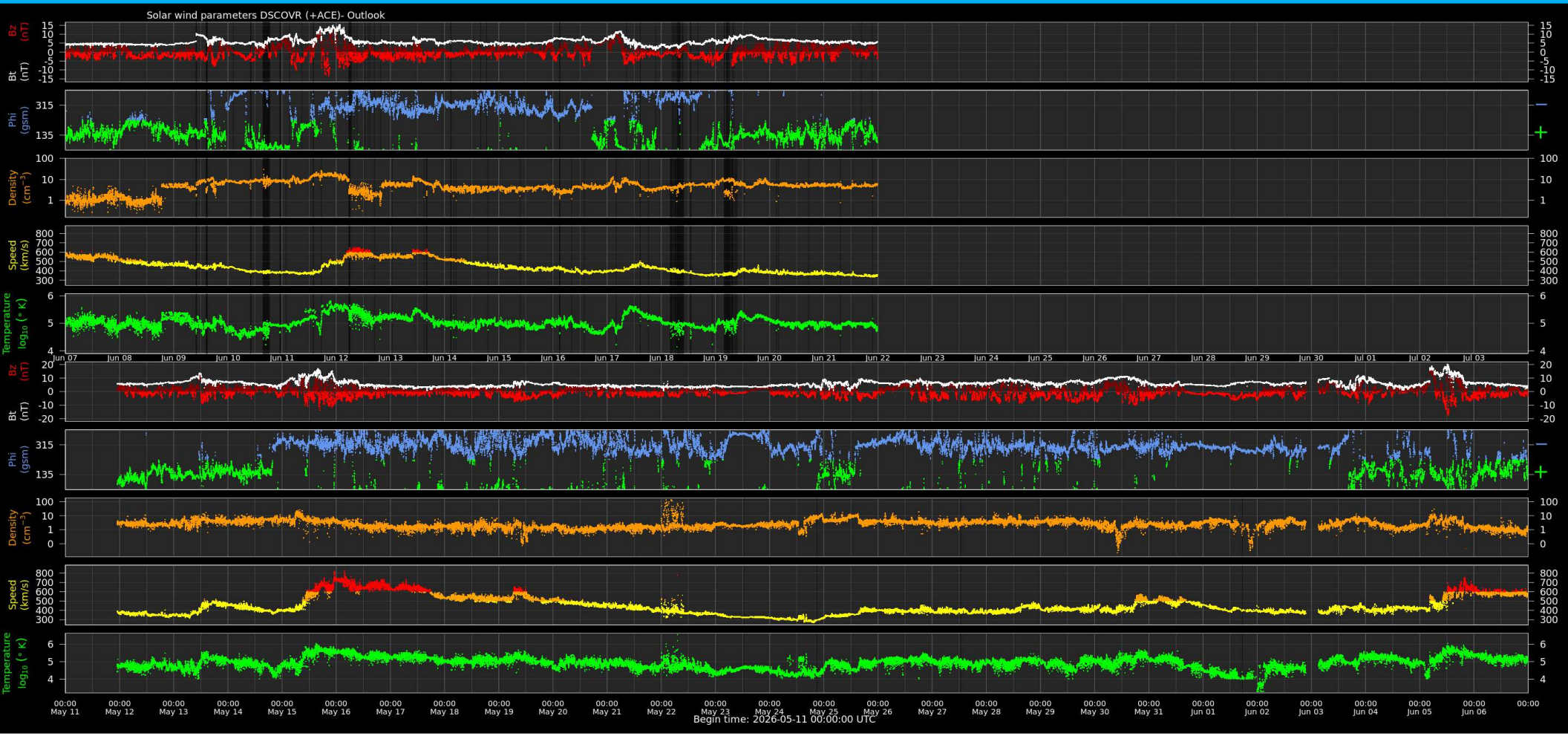
Outlook: Solar activity



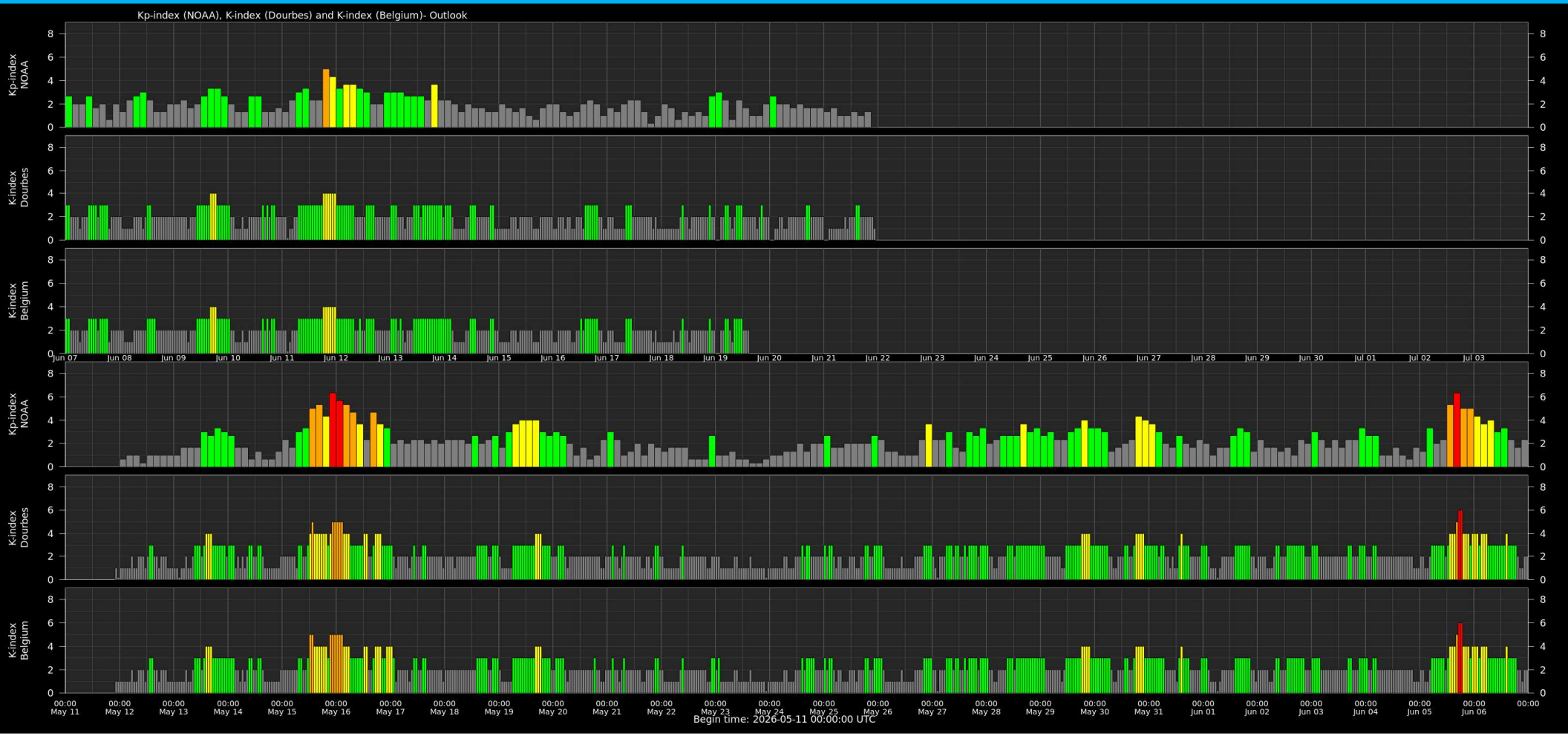
Outlook: Solar F10.7cm radio flux



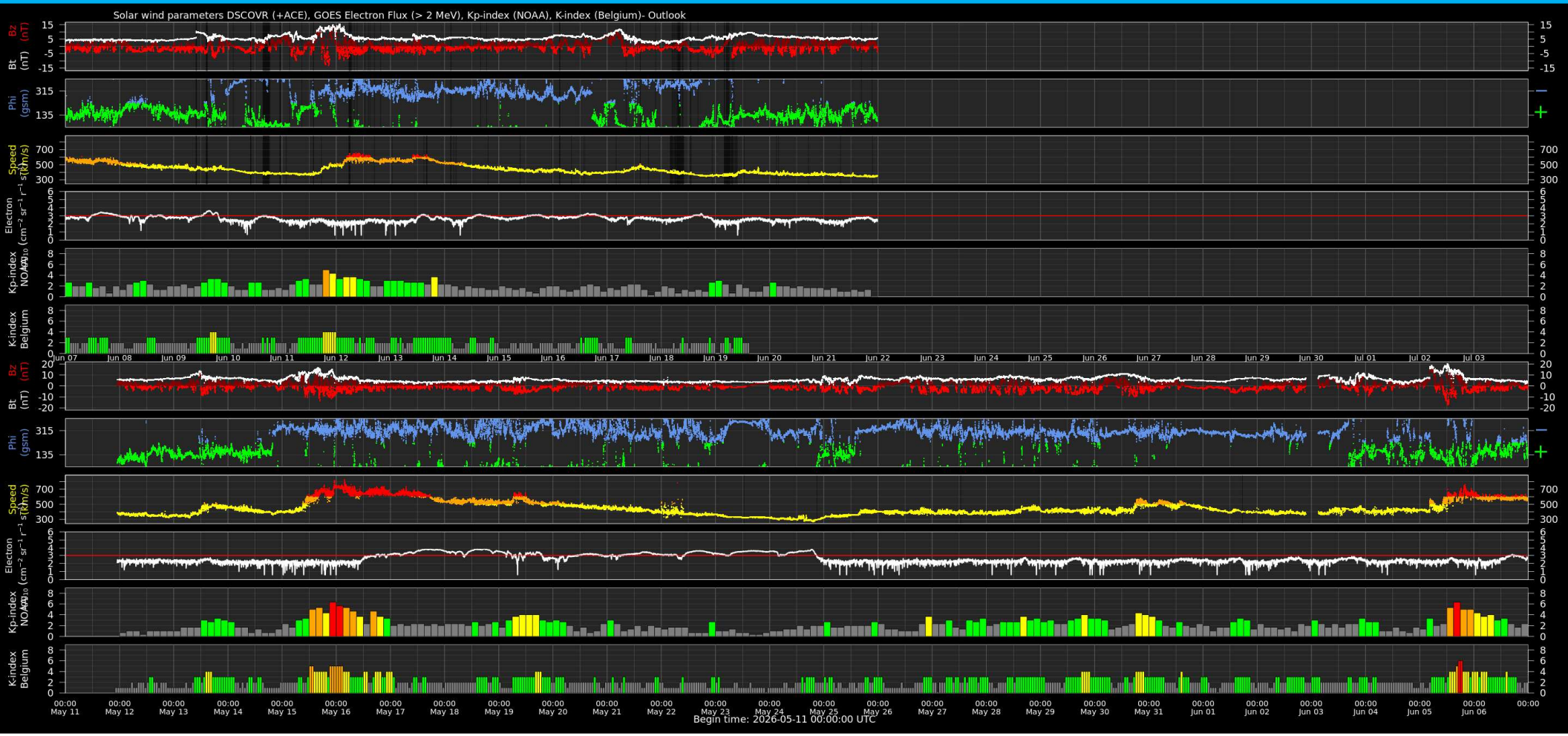
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Pecasus related events

Nothing

SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at www.sidc.be



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be