

SIDC Space Weather Briefing

25 May 2026-31 May 2026

Dimitrios Millas

& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-05-25 00:00 to 2026-05-31 23:59

Active regions	21 ARs (mostly α , β) / SIDC 879 (NOAA 4452) $\beta\gamma$
Flares	# C-class: 24 # M-class: 1 # X-class: 0
Coronal Holes	3 negative polarity CH
CMEs	3 partial halo CMEs / none Earth-directed

Proton flux	Exceeded the 10 pfu threshold on May 26
Electron flux	Mostly below the 1000 pfu threshold

Solar wind and geomagnetic conditions

ICMEs	None
Solar wind conditions	B : 0.35 - 11.82 nT //Bz: -10.12 nT to 9.28 nT //Speed: 360 - 556.5km/s
Geomagnetic conditions	max K _{Be} : 4.0, max K _p (NOAA): 4.33, Active conditions

All Quiet Alert: Off

Solar Activity

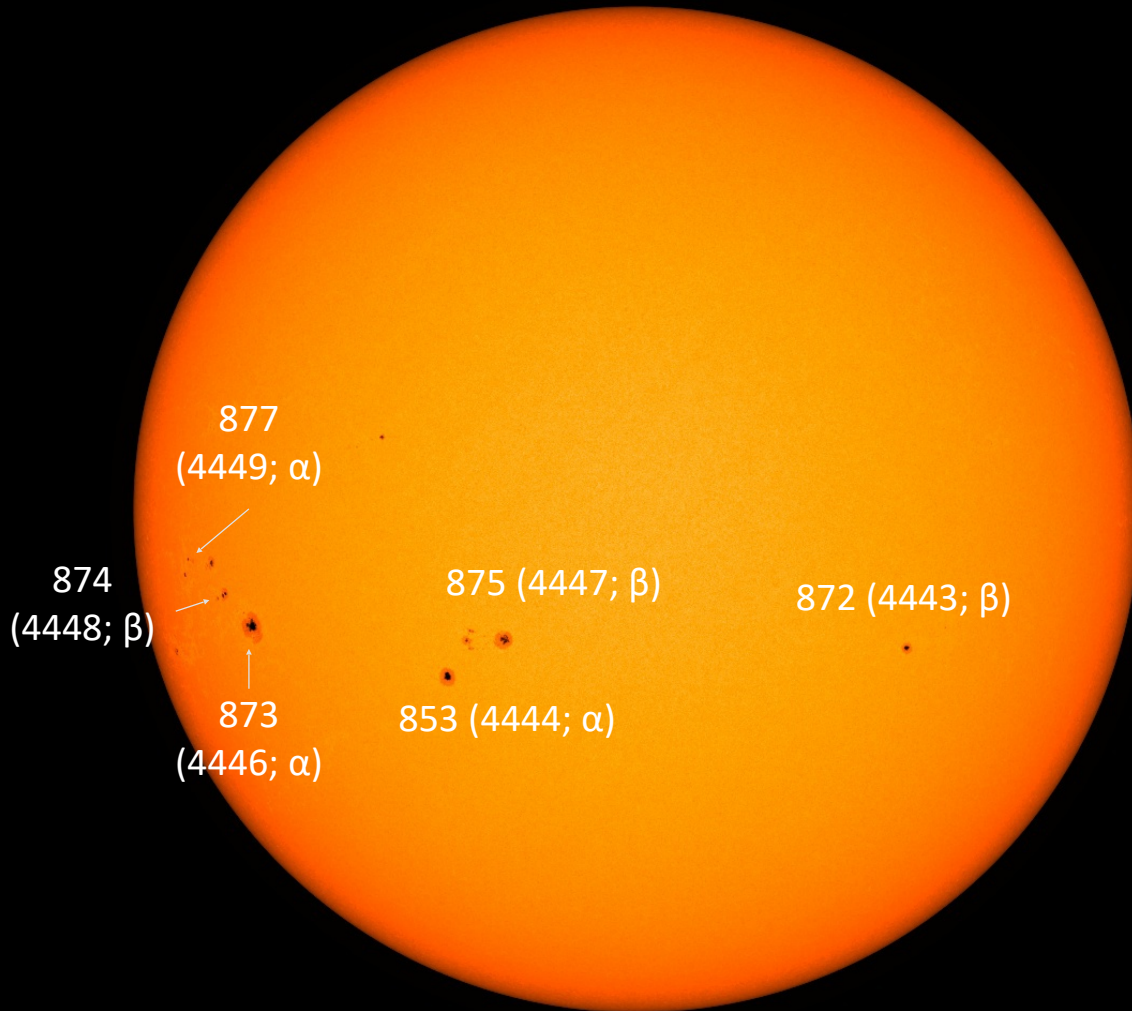


Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

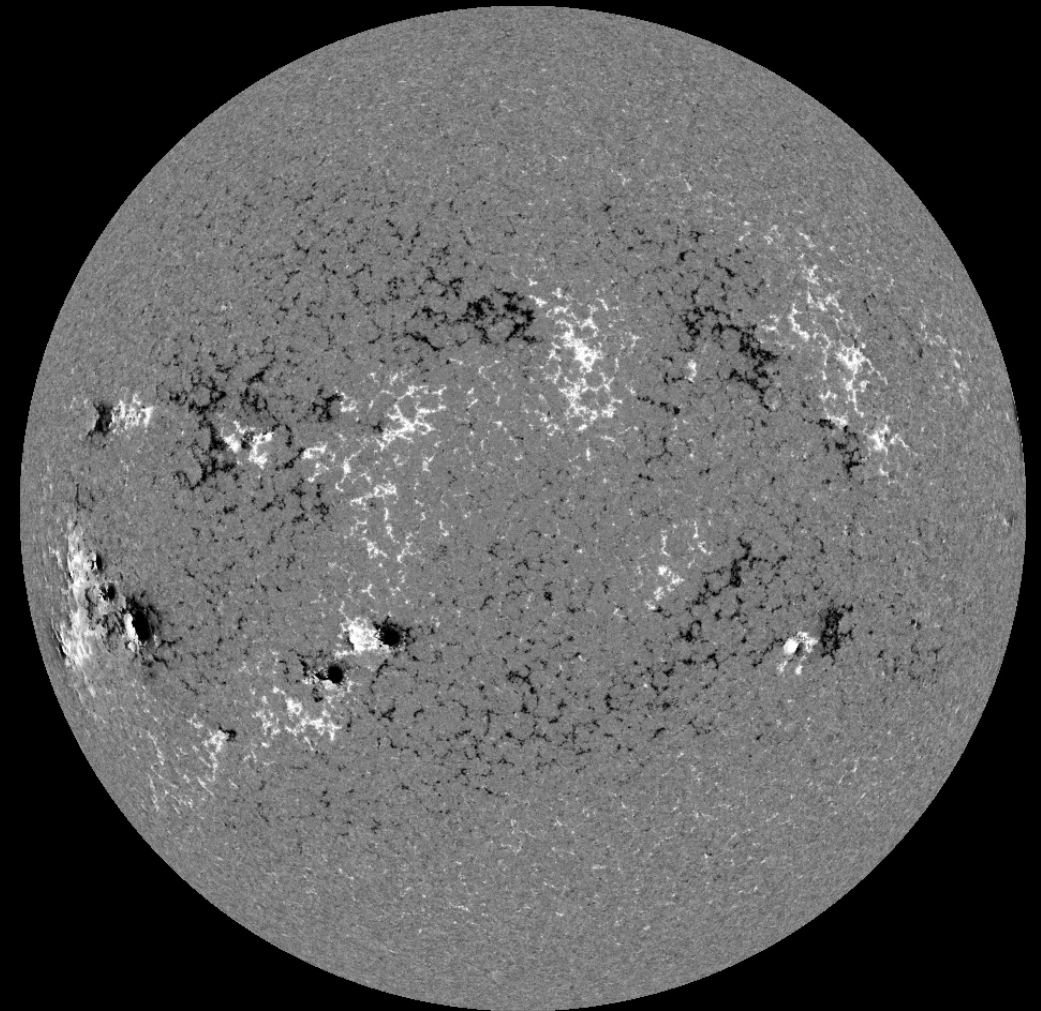
Solar active regions

SDO/HMI White Light 2026-05-25



SDO/HMI Continuum: 20260525_120000

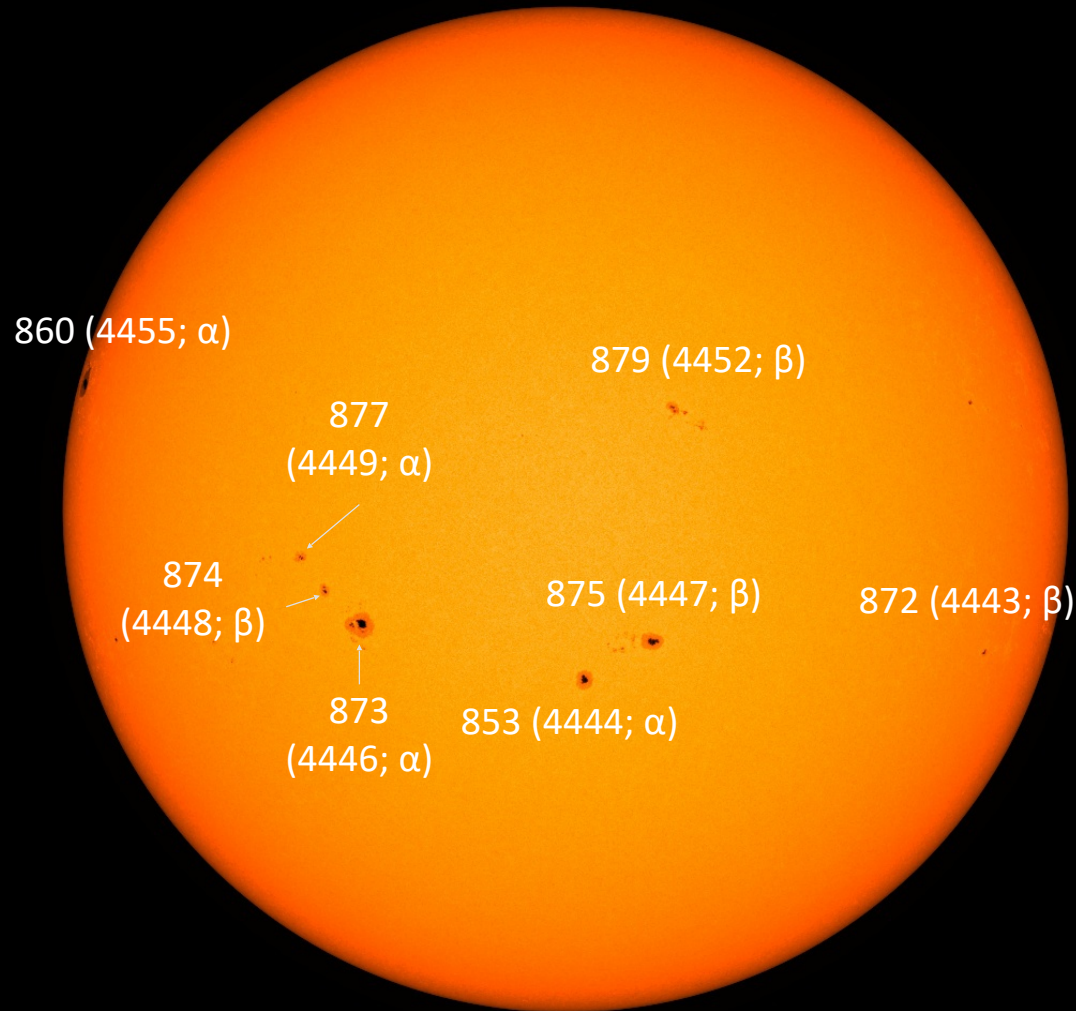
SDO/HMI Magnetogram 2026-05-25



SDO/HMI Magnetogram: 20260525_120000

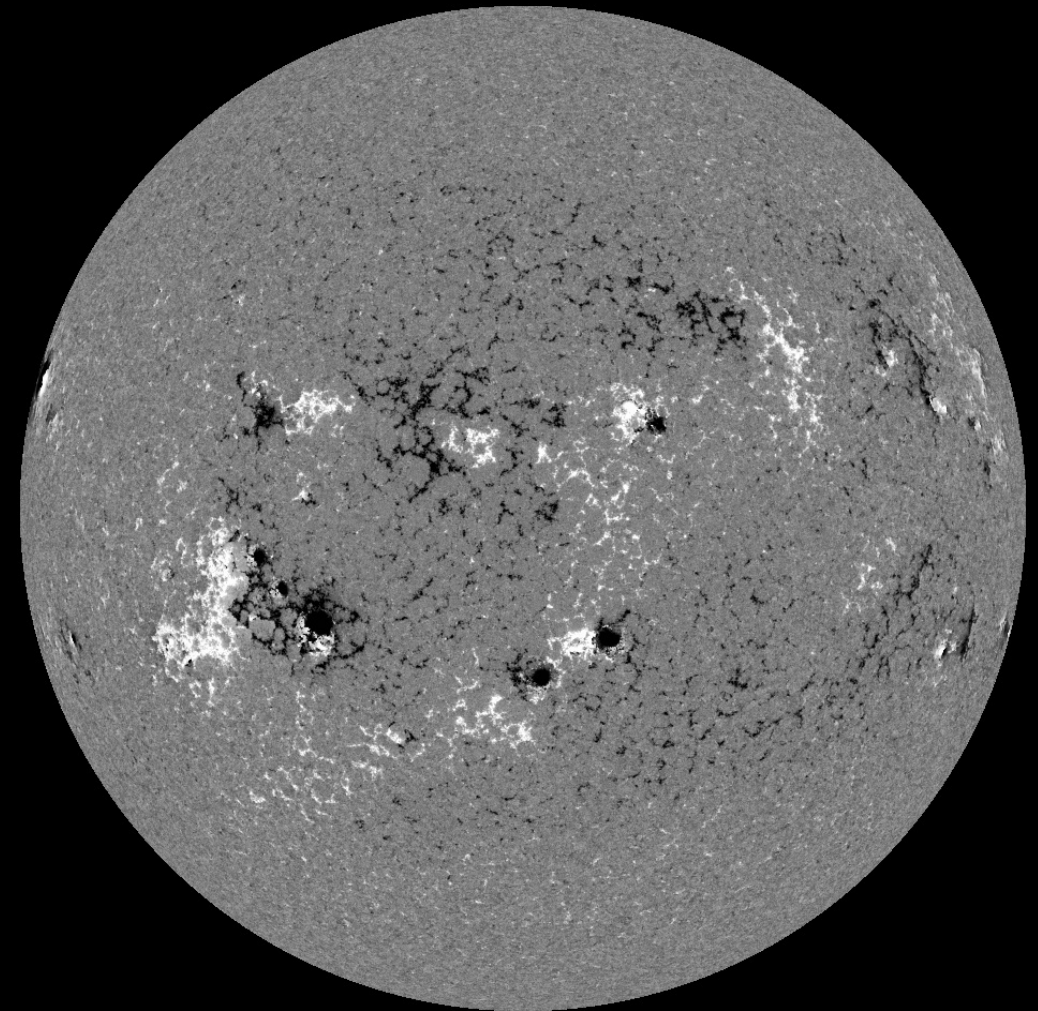
Solar active regions

SDO/HMI White Light 2026-05-27



SDO/HMI Continuum: 20260527_120000

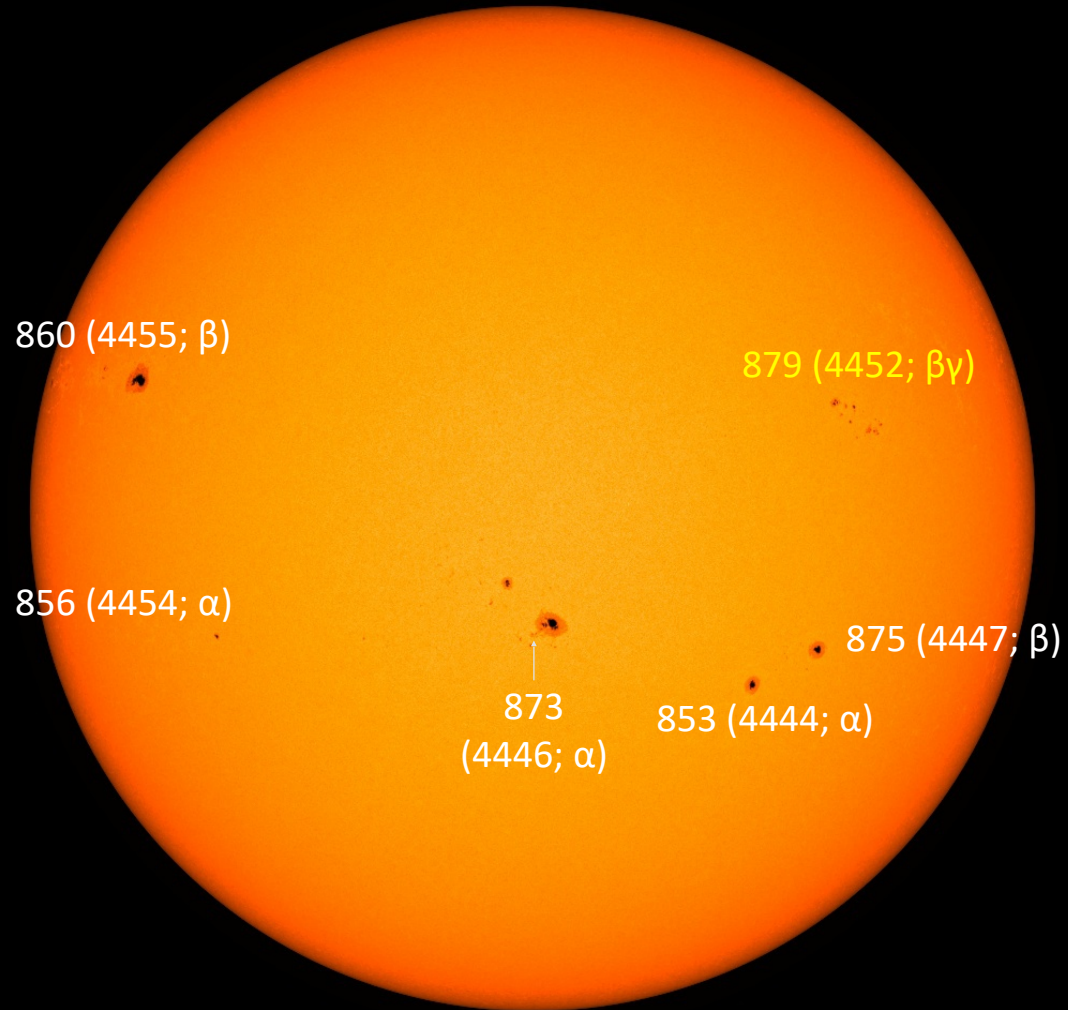
SDO/HMI Magnetogram 2026-05-27



SDO/HMI Magnetogram: 20260527_120000

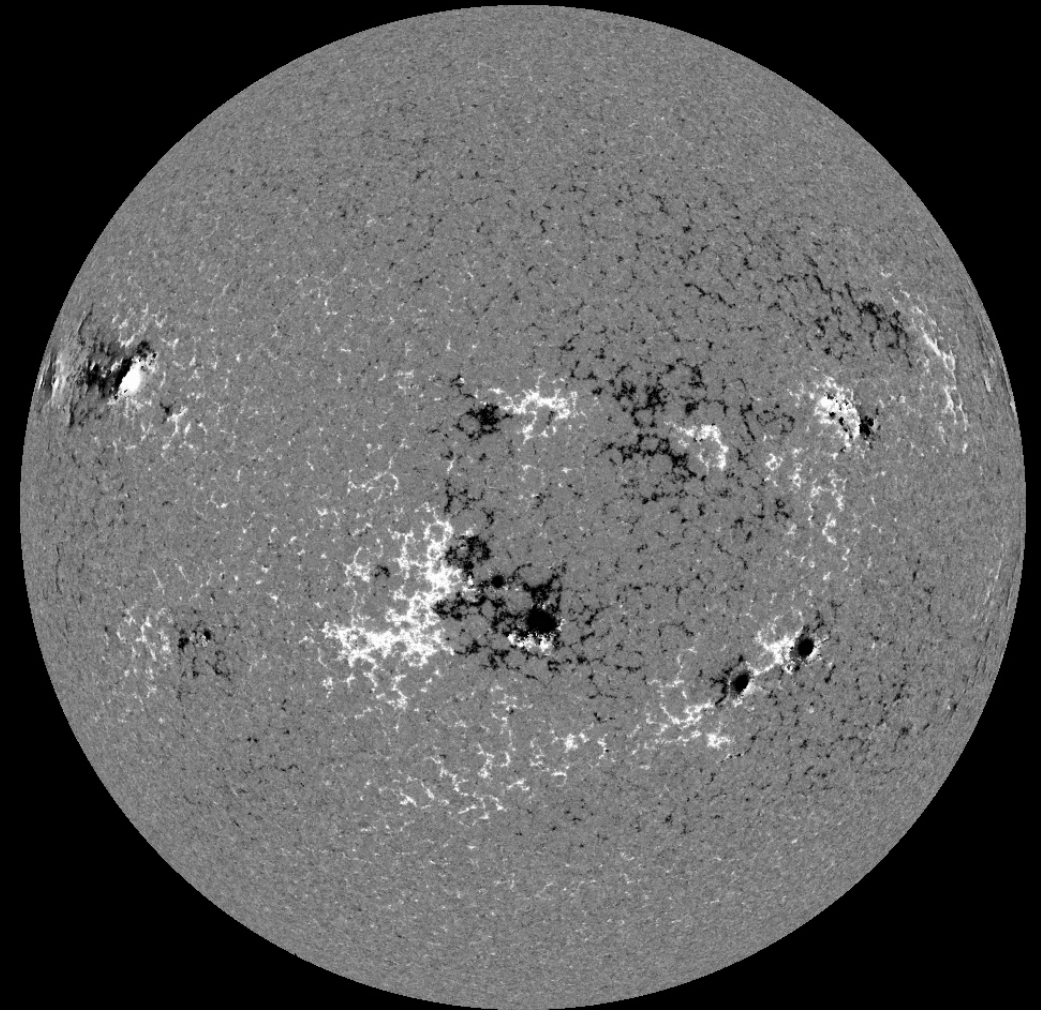
Solar active regions

SDO/HMI White Light 2026-05-29



SDO/HMI Quick-Look Continuum: 20260529_120000

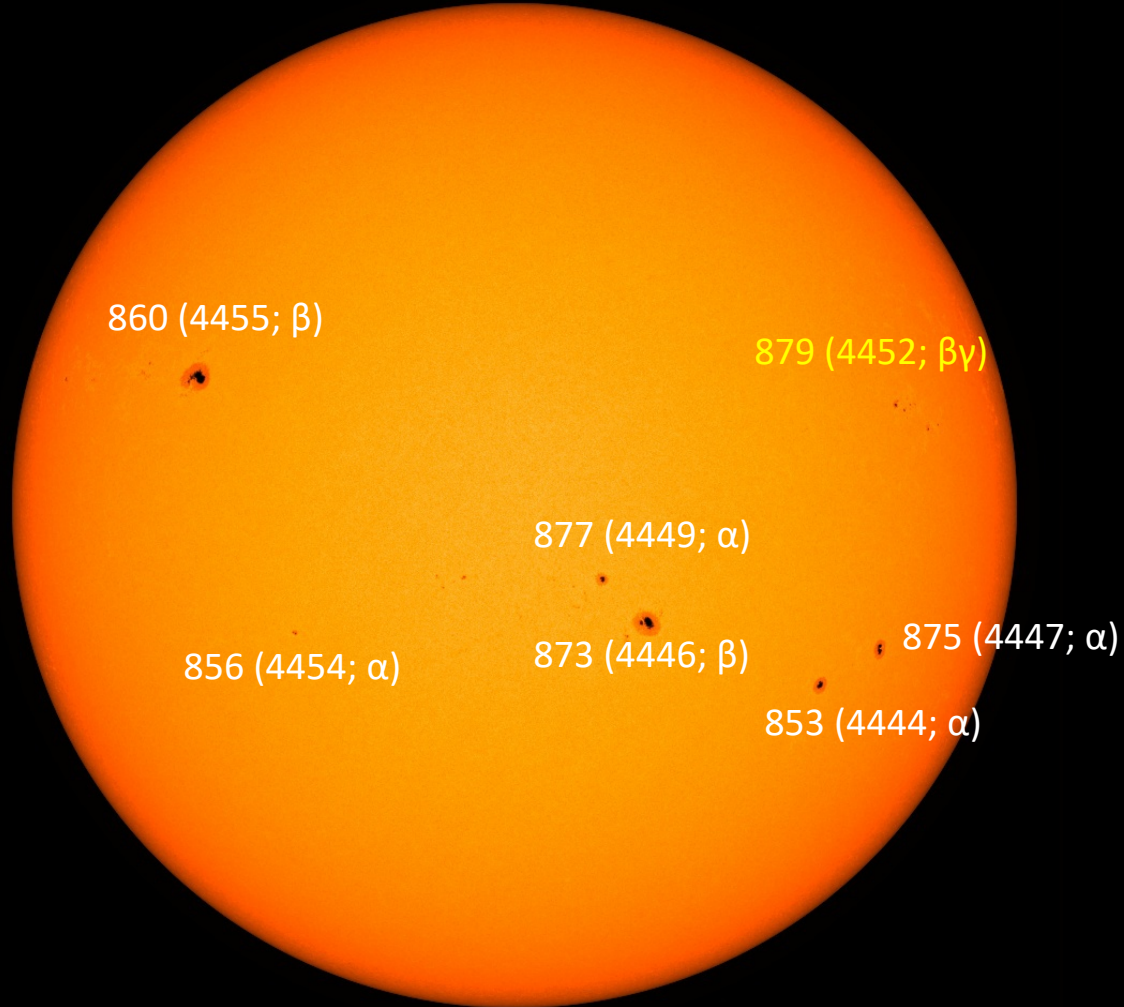
SDO/HMI Magnetogram 2026-05-29



SDO/HMI Quick-Look Magnetogram: 20260529_120000

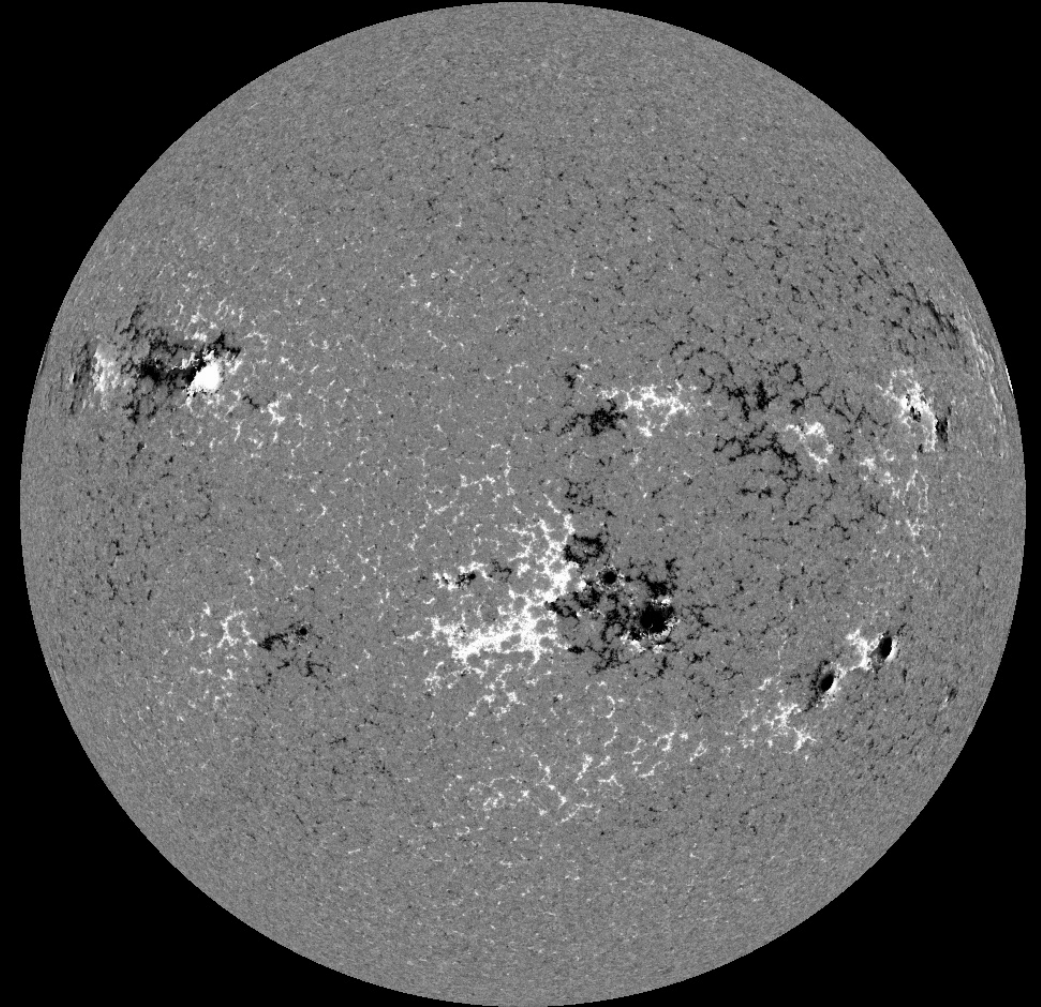
Solar active regions

SDO/HMI White Light 2026-05-30



SDO/HMI Quick-Look Continuum: 20260530_120000

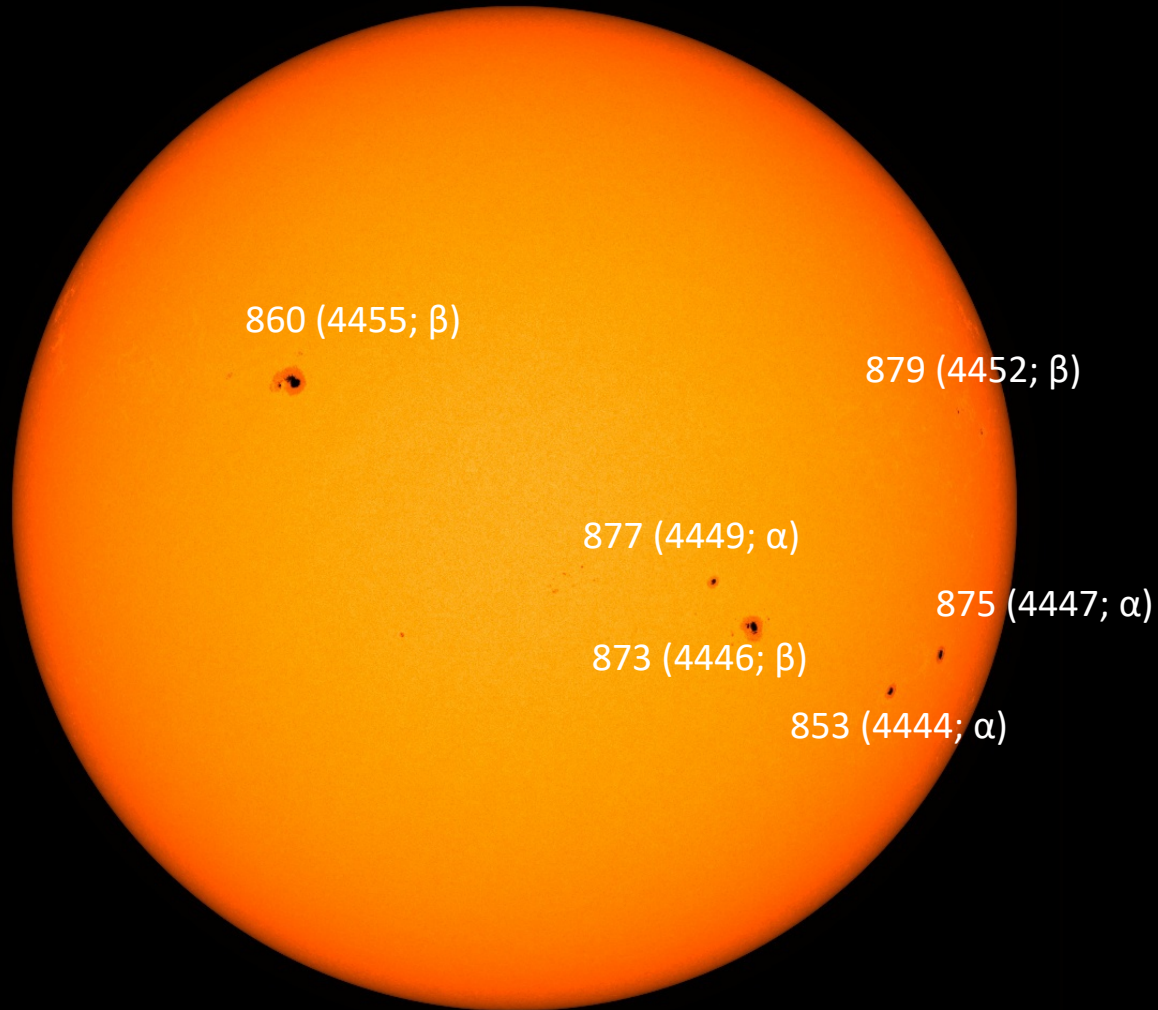
SDO/HMI Magnetogram 2026-05-30



SDO/HMI Quick-Look Magnetogram: 20260530_120000

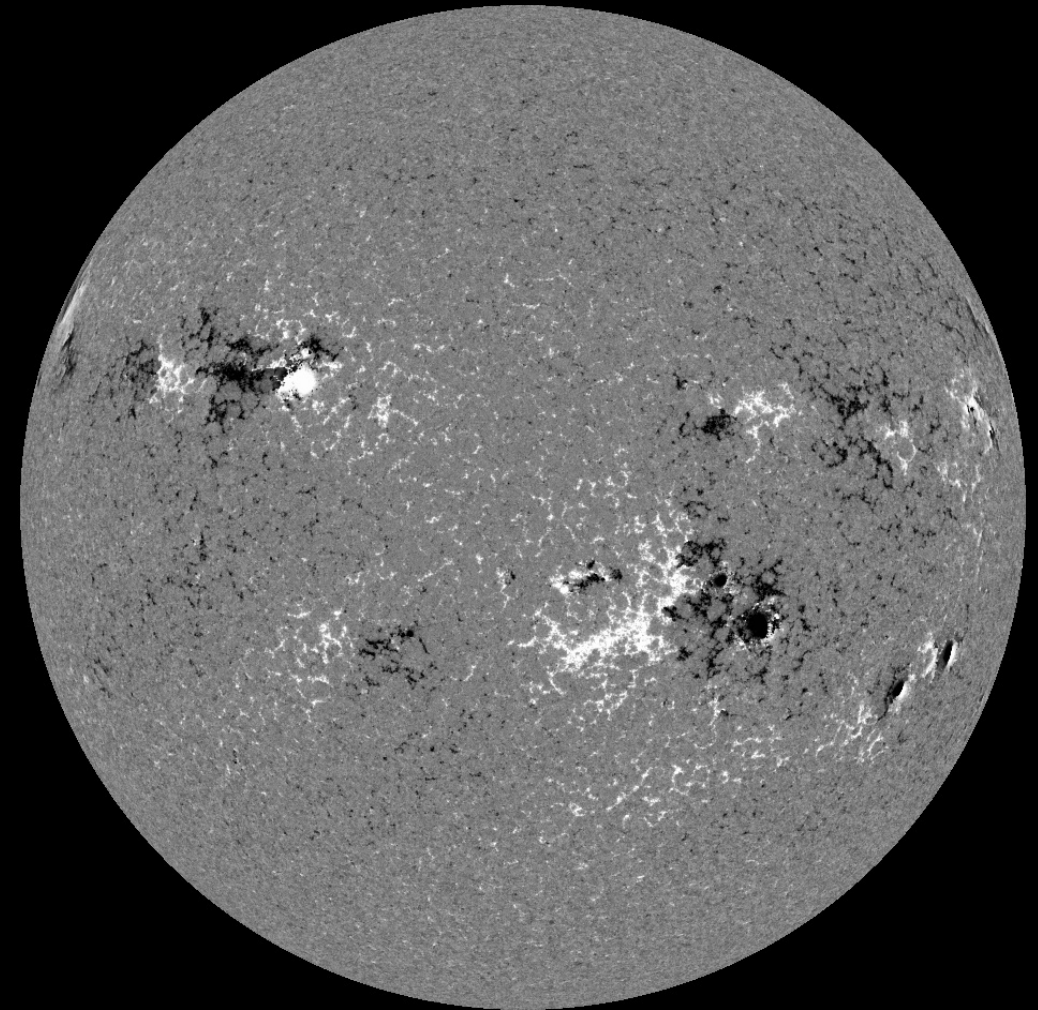
Solar active regions

SDO/HMI White Light 2026-05-31



SDO/HMI Quick-Look Continuum: 20260531_120000

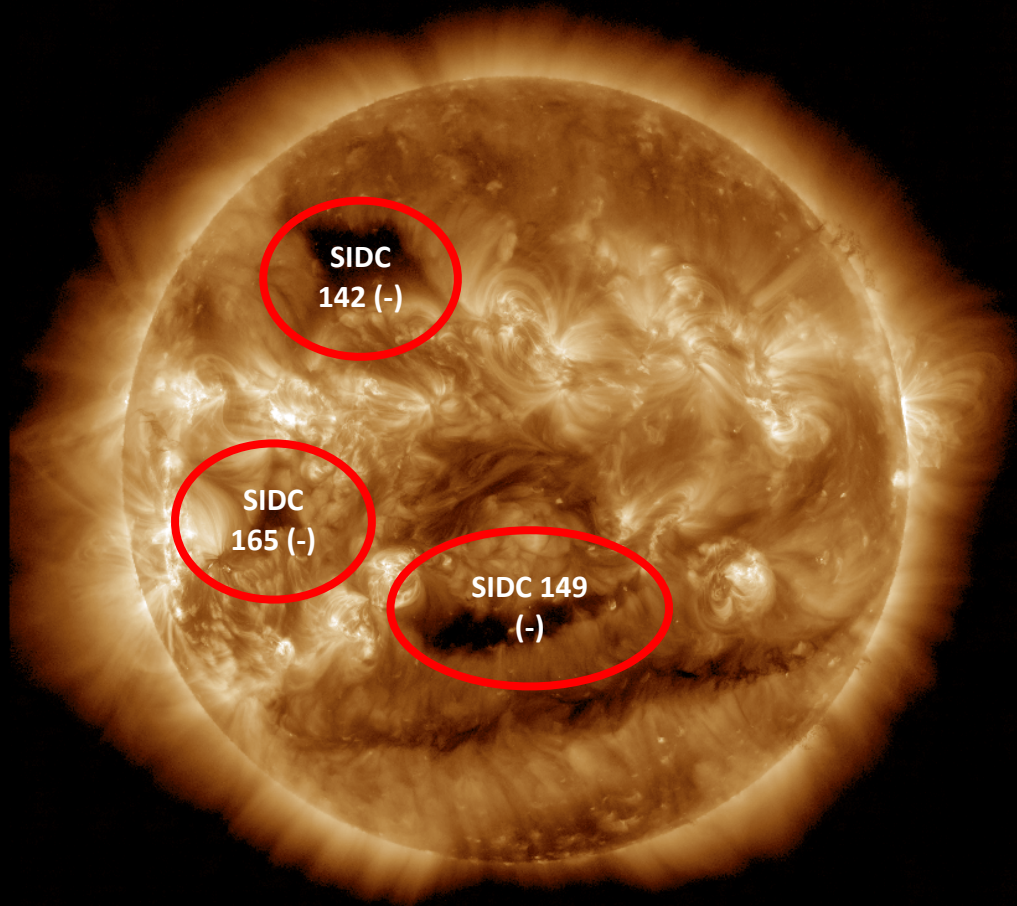
SDO/HMI Magnetogram 2026-05-31



SDO/HMI Quick-Look Magnetogram: 20260531_120000

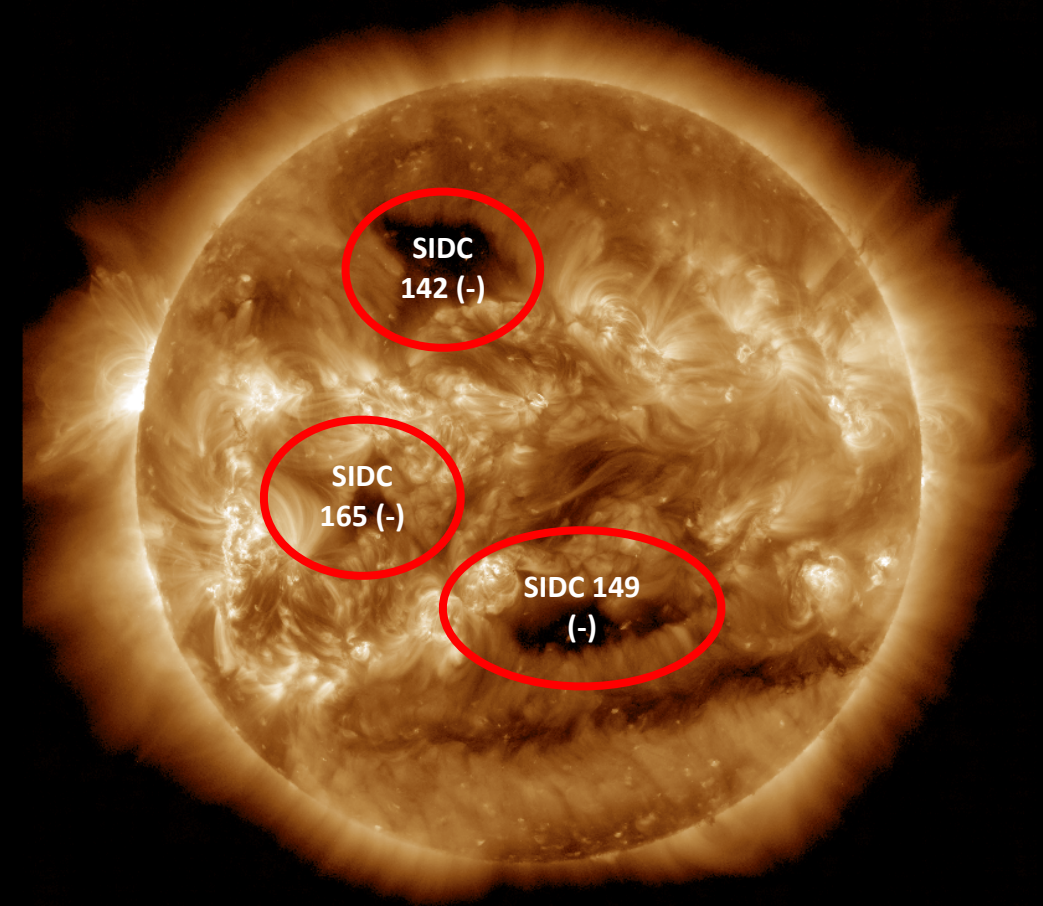
Coronal holes

SDO/AIA 19.3 nm 2026-05-25



2026-05-25T12:00:17.129

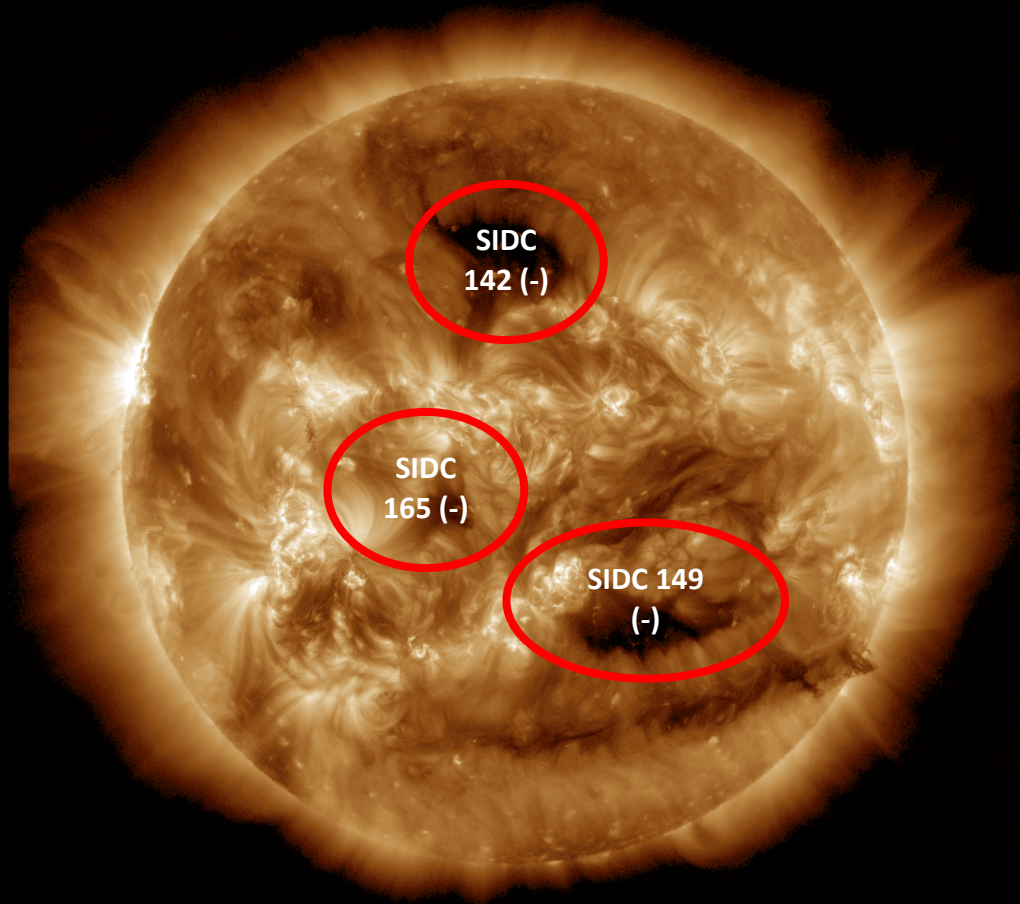
SDO/AIA 19.3 nm 2026-05-26



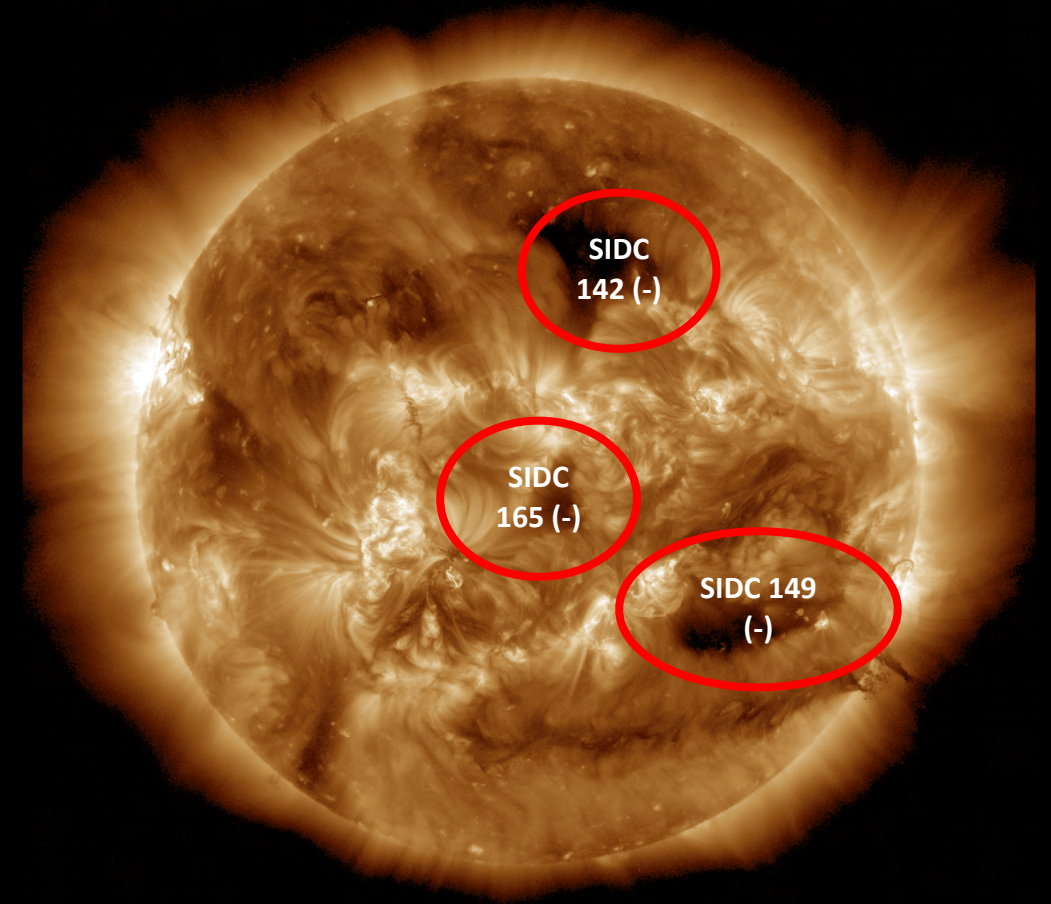
2026-05-26T11:59:29.128

Coronal holes

SDO/AIA 19.3 nm 2026-05-27



SDO/AIA 19.3 nm 2026-05-28

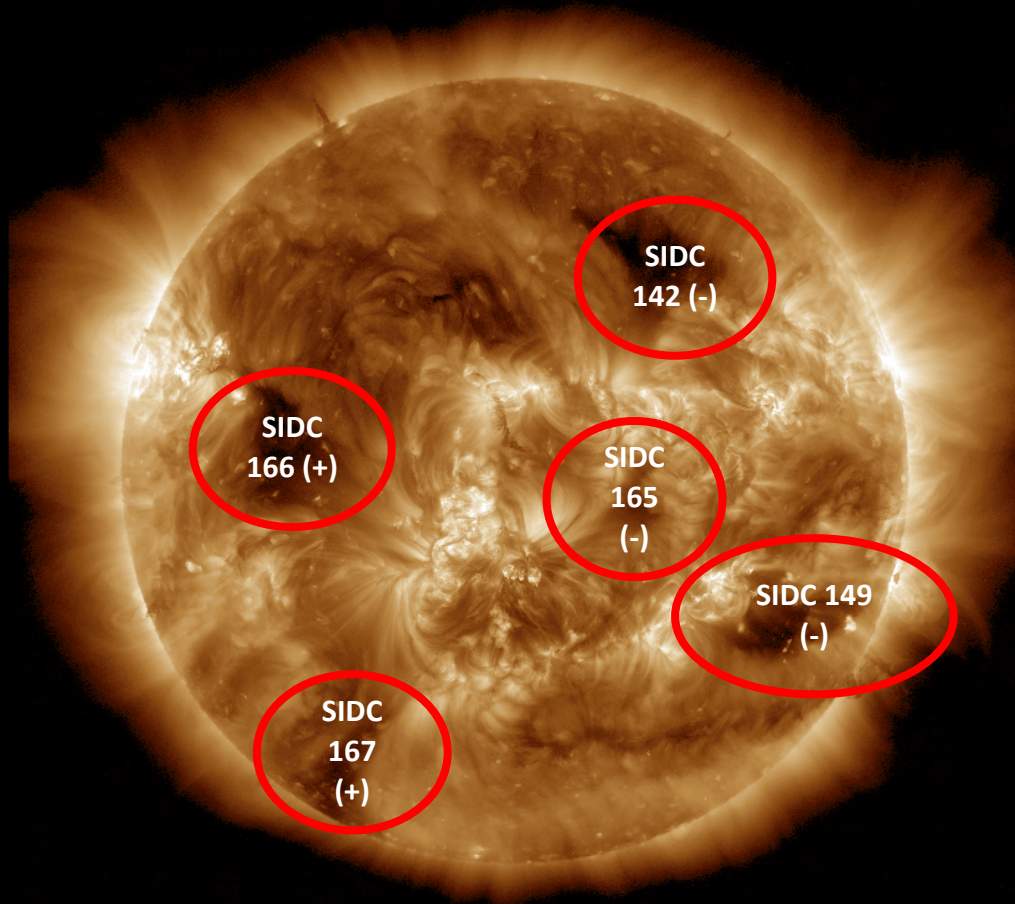


2026-05-27T11:59:29.136

2026-05-28T11:59:17.132

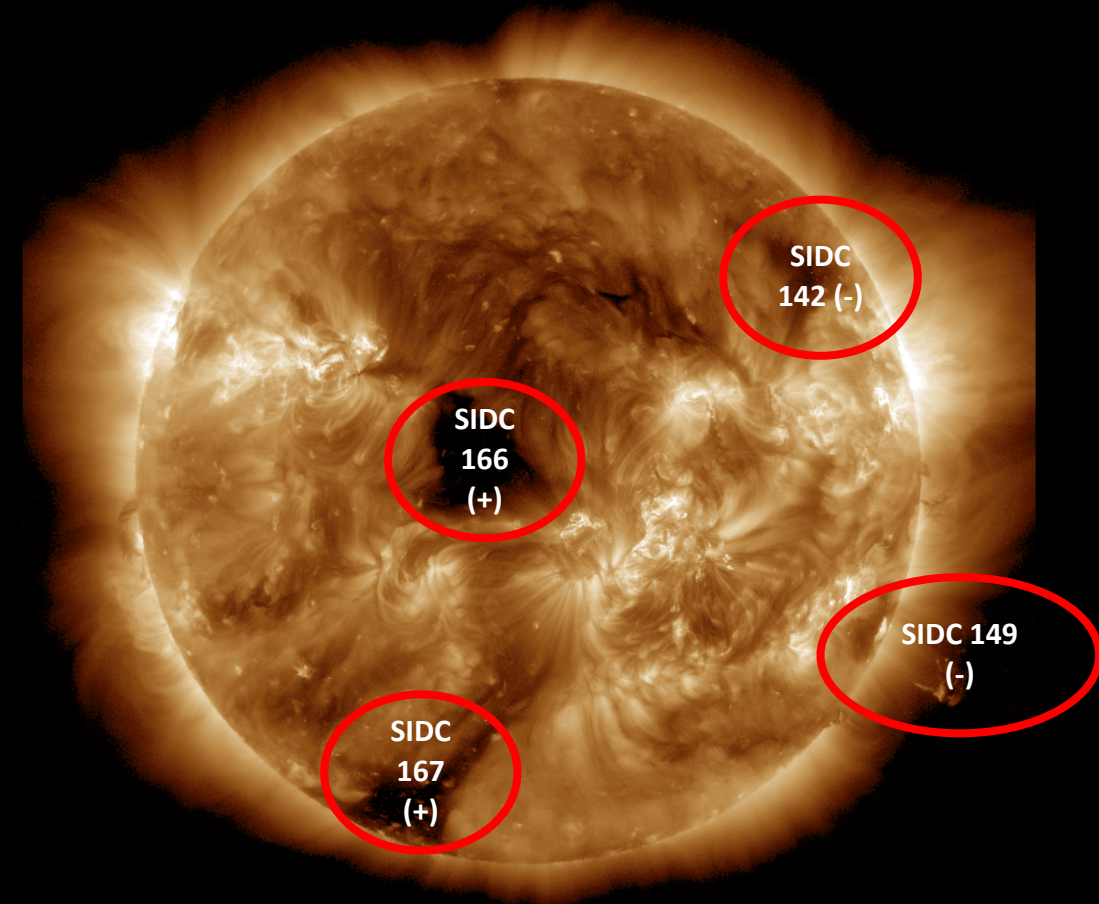
Coronal holes

SDO/AIA 19.3 nm 2026-05-29



2026-05-29T11:59:29.129

SDO/AIA 19.3 nm 2026-05-31

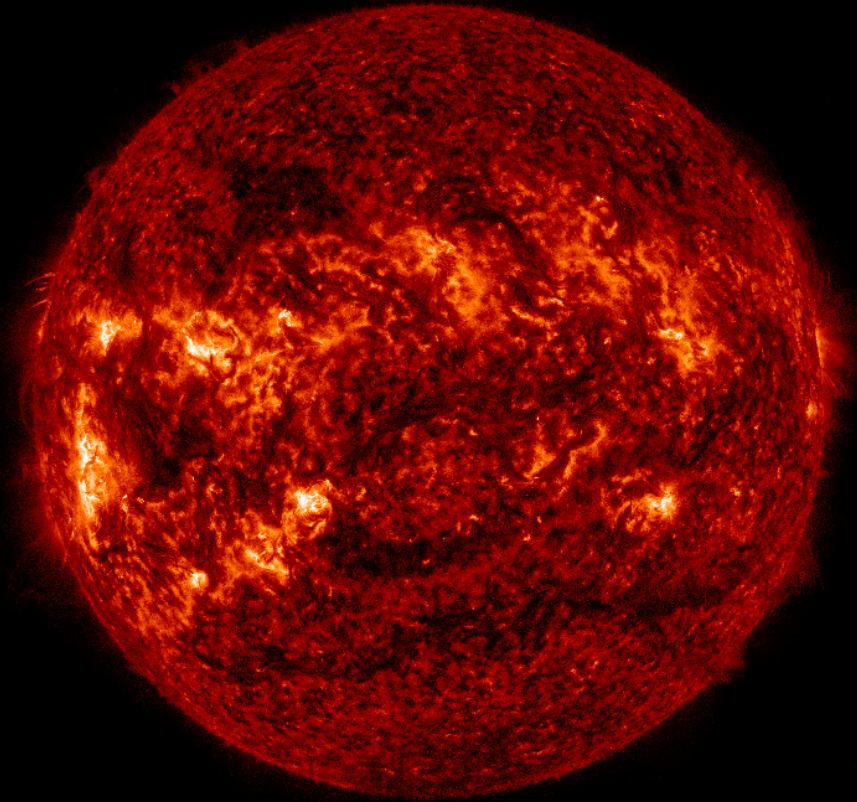


2026-05-31T11:59:29.129

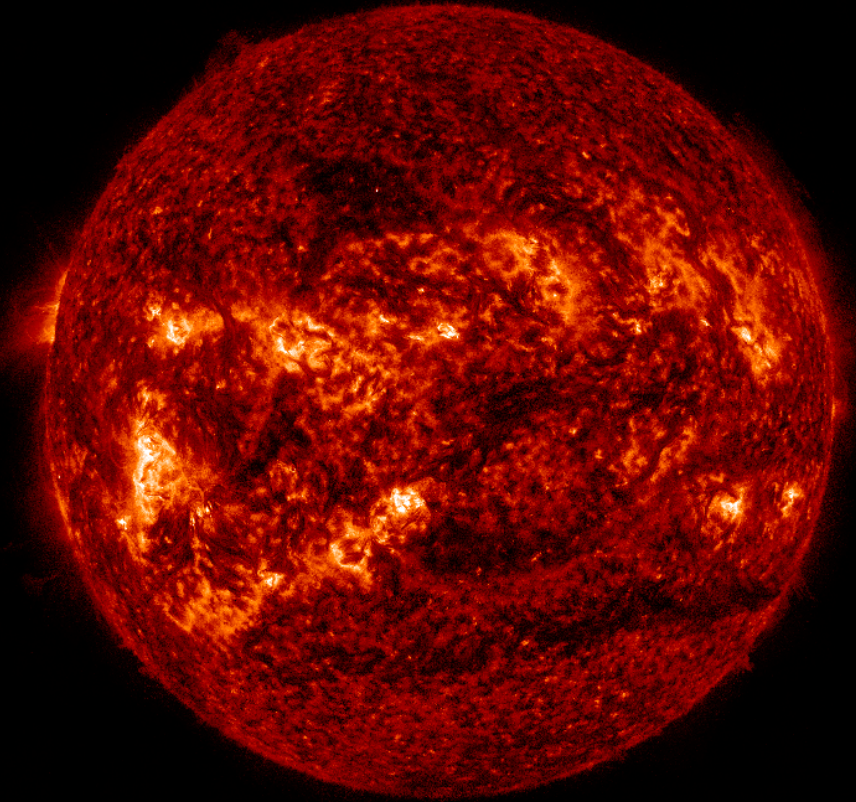
Filaments

SDO/AIA 30.4 nm 2026-05-25

SDO/AIA 30.4 nm 2026-05-26



2026-05-25T12:00:17.129

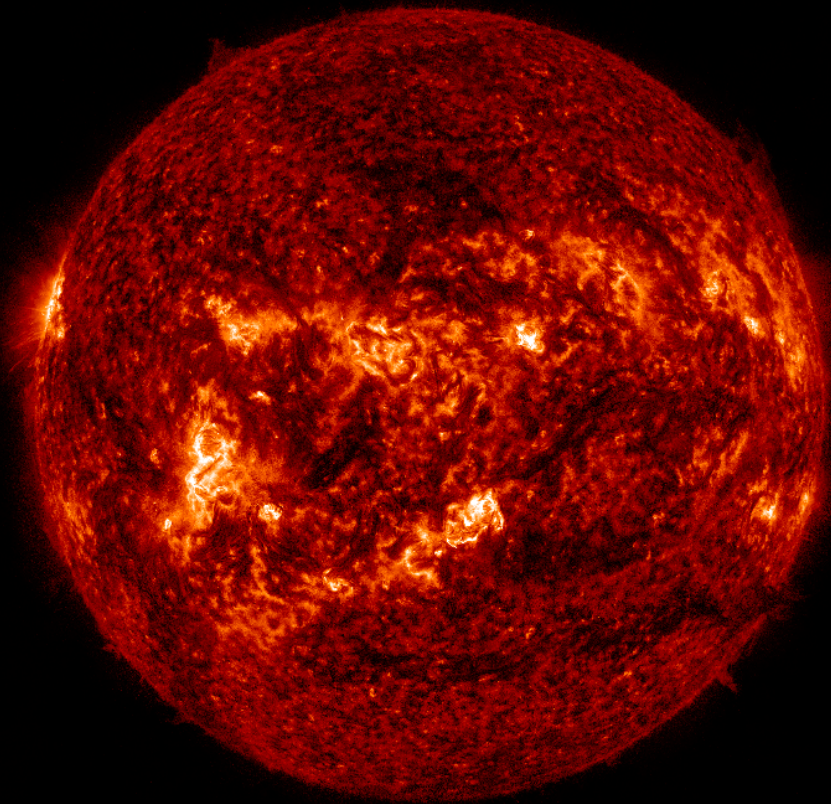


2026-05-26T11:59:29.128

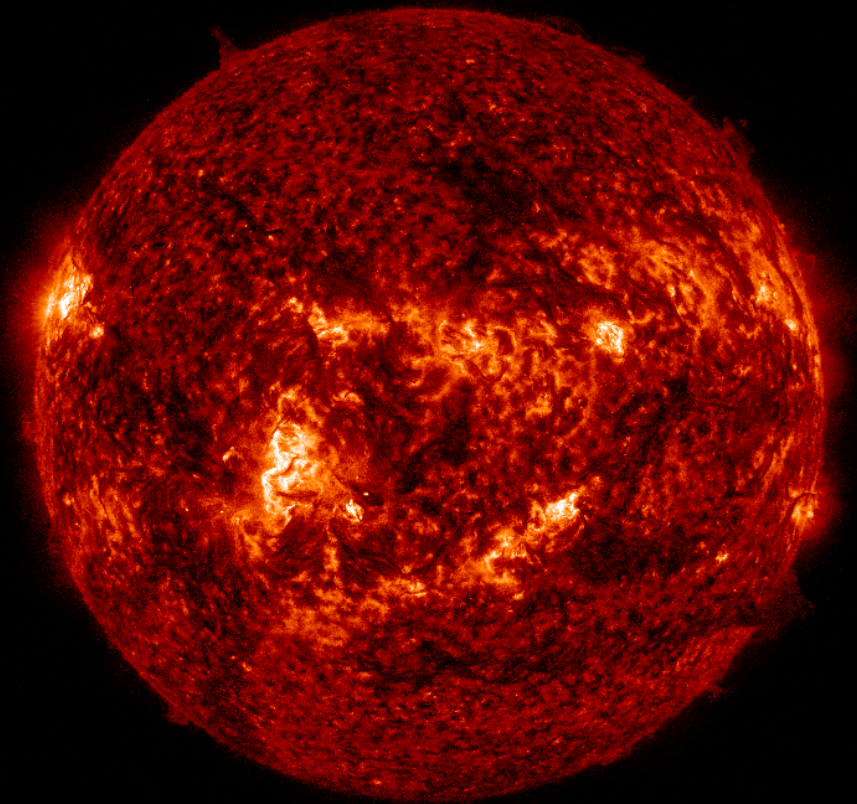
Filaments

SDO/AIA 30.4 nm 2026-05-27

SDO/AIA 30.4 nm 2026-05-28



2026-05-27T11:59:29.136

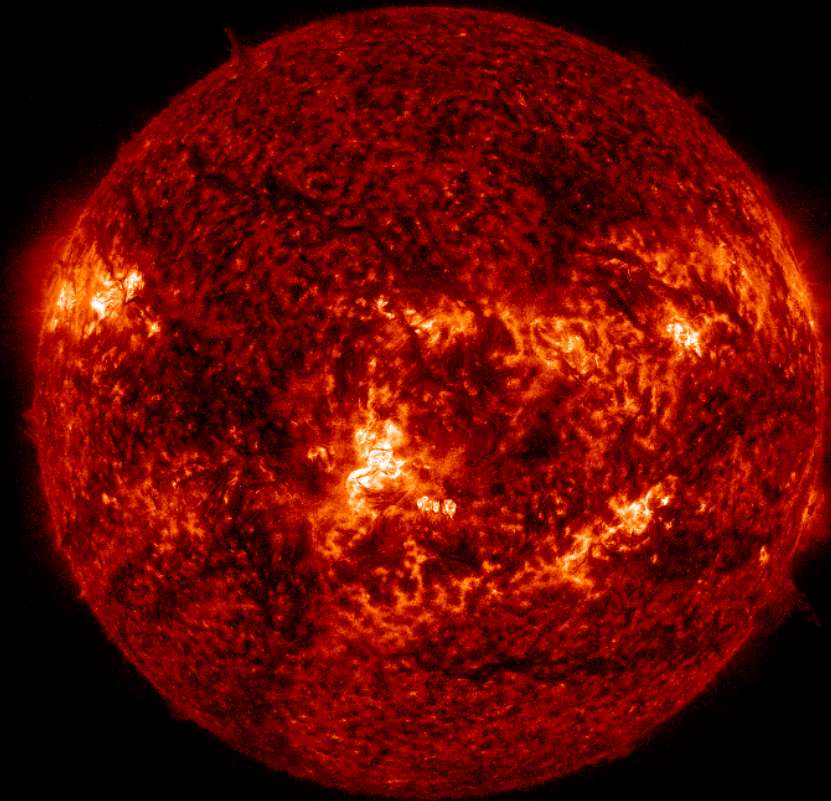


2026-05-28T11:59:17.132

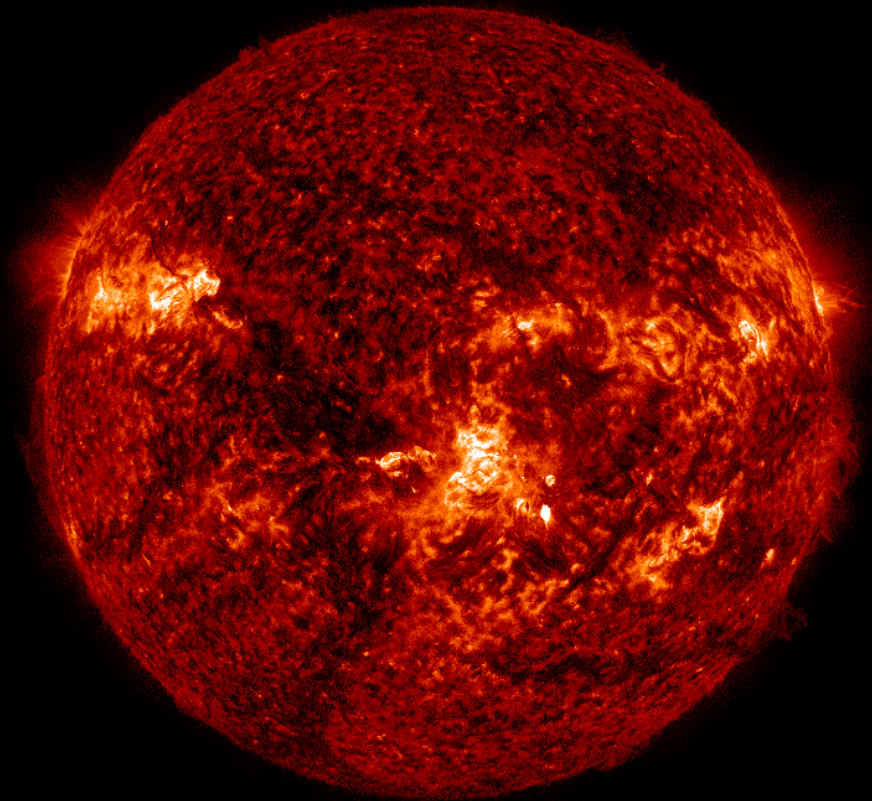
Filaments

SDO/AIA 30.4 nm 2026-05-29

SDO/AIA 30.4 nm 2026-05-30



2026-05-29T11:59:29.129



2026-05-30T11:59:41.129

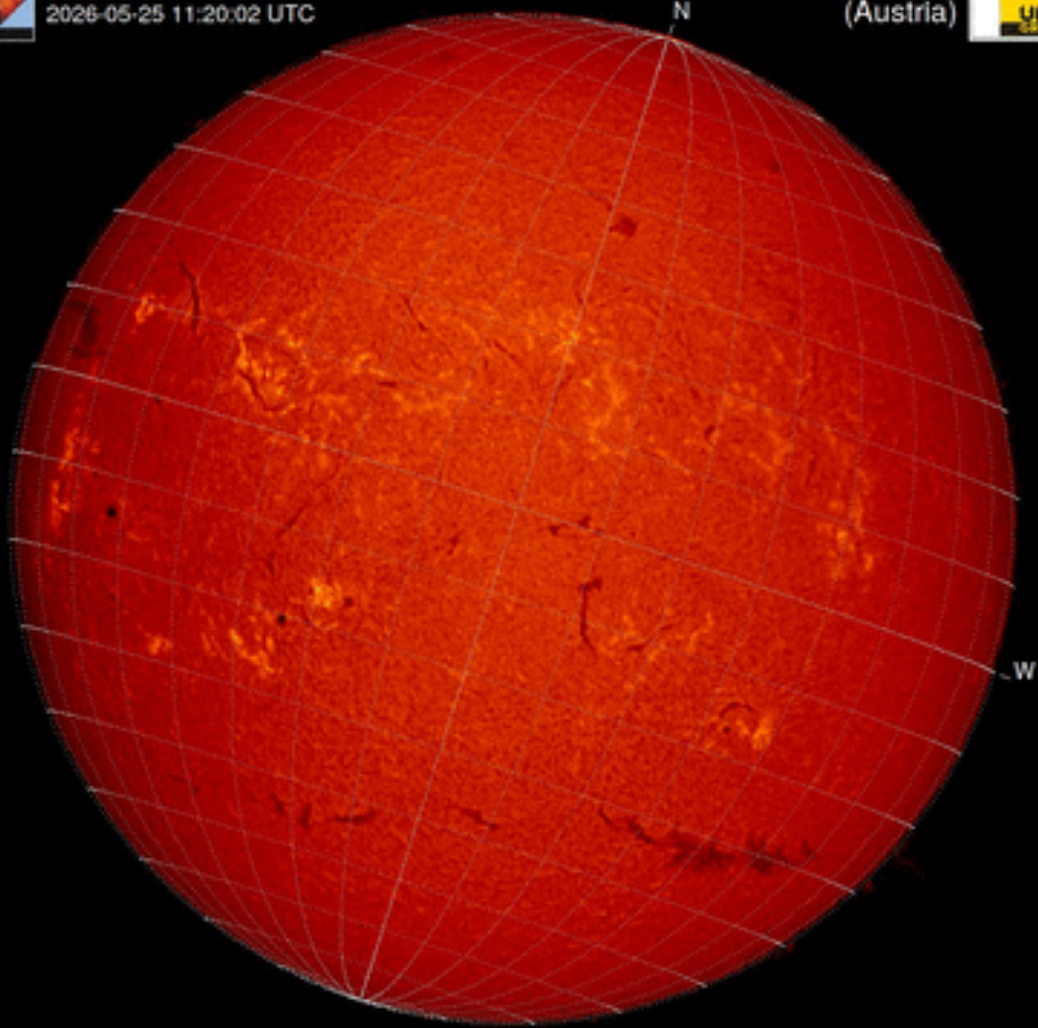
Filaments & Filament eruptions

H-alpha 2026-05-25



Kanzelhöhe Observatory
2026-05-25 11:20:02 UTC

University of Graz
(Austria)

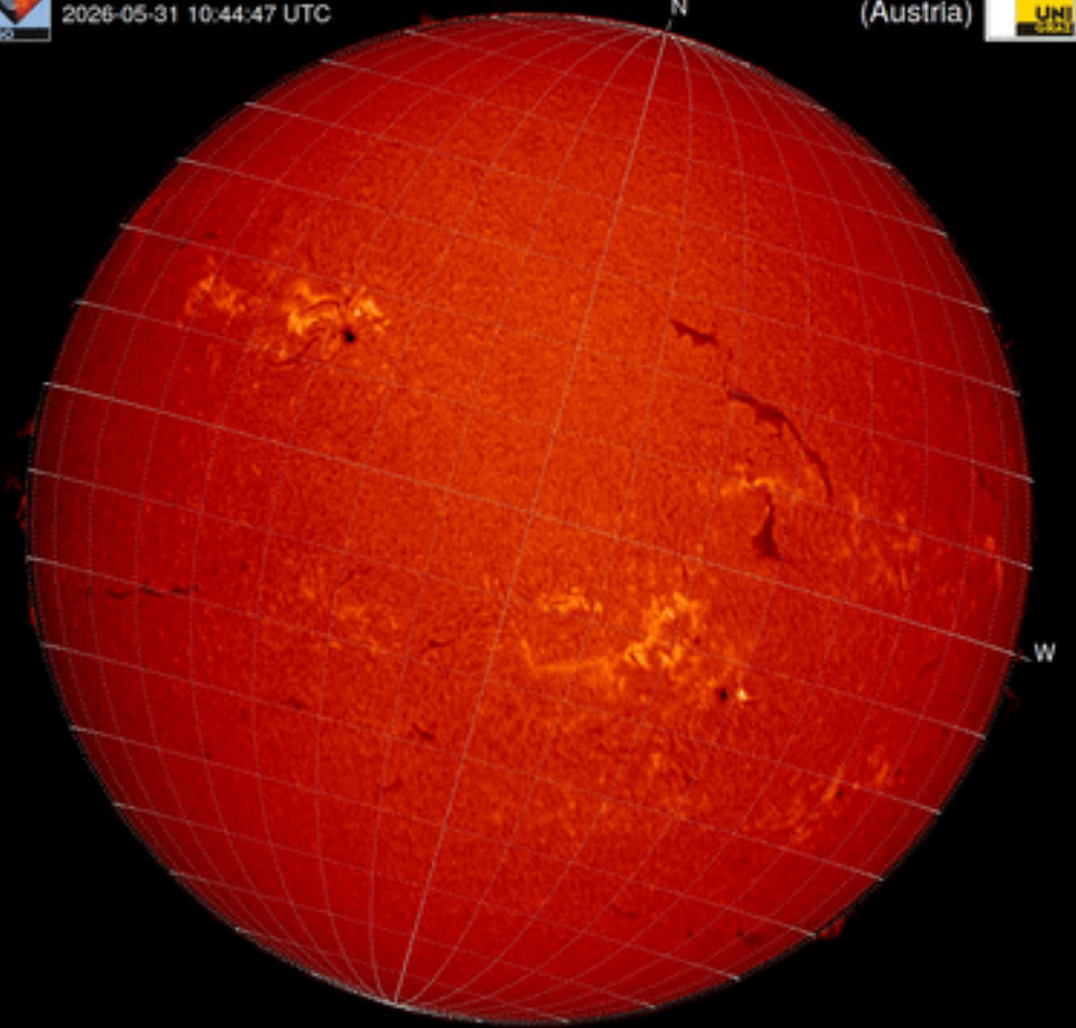


H-alpha 2026-05-31

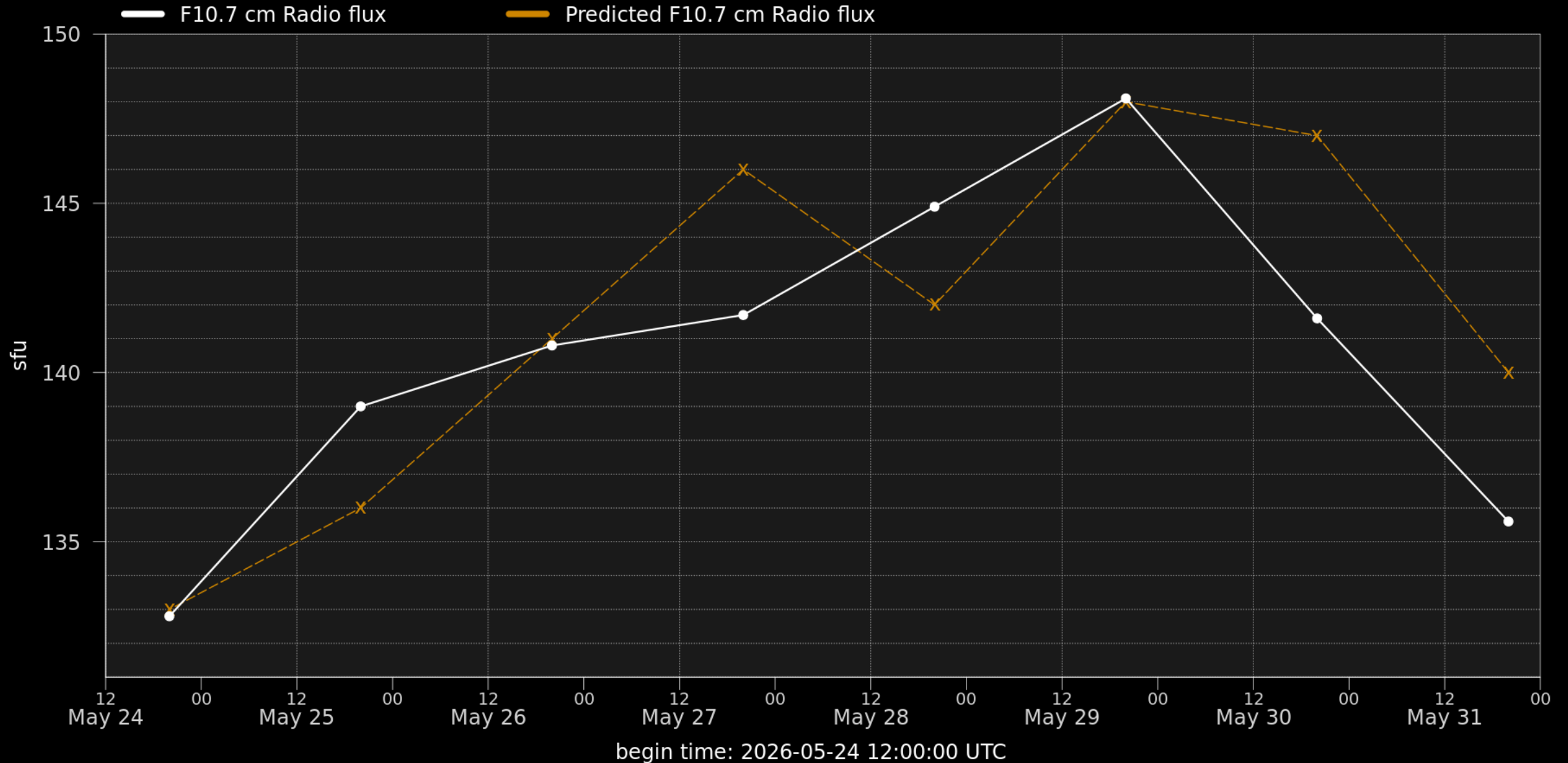


Kanzelhöhe Observatory
2026-05-31 10:44:47 UTC

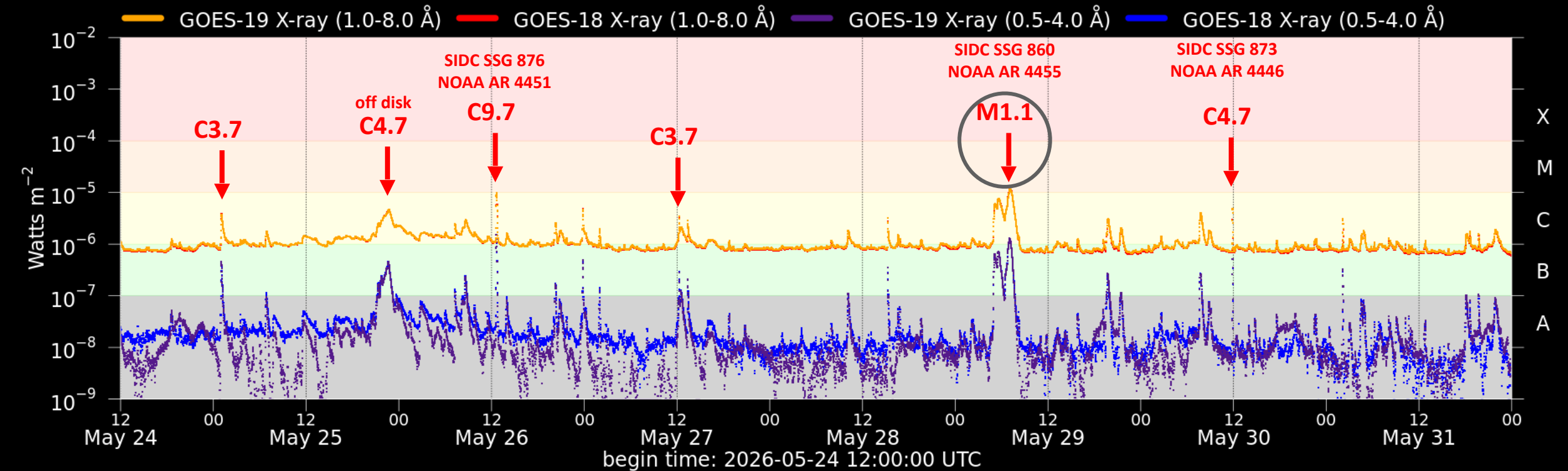
University of Graz
(Austria)



Solar F10.7cm radio flux



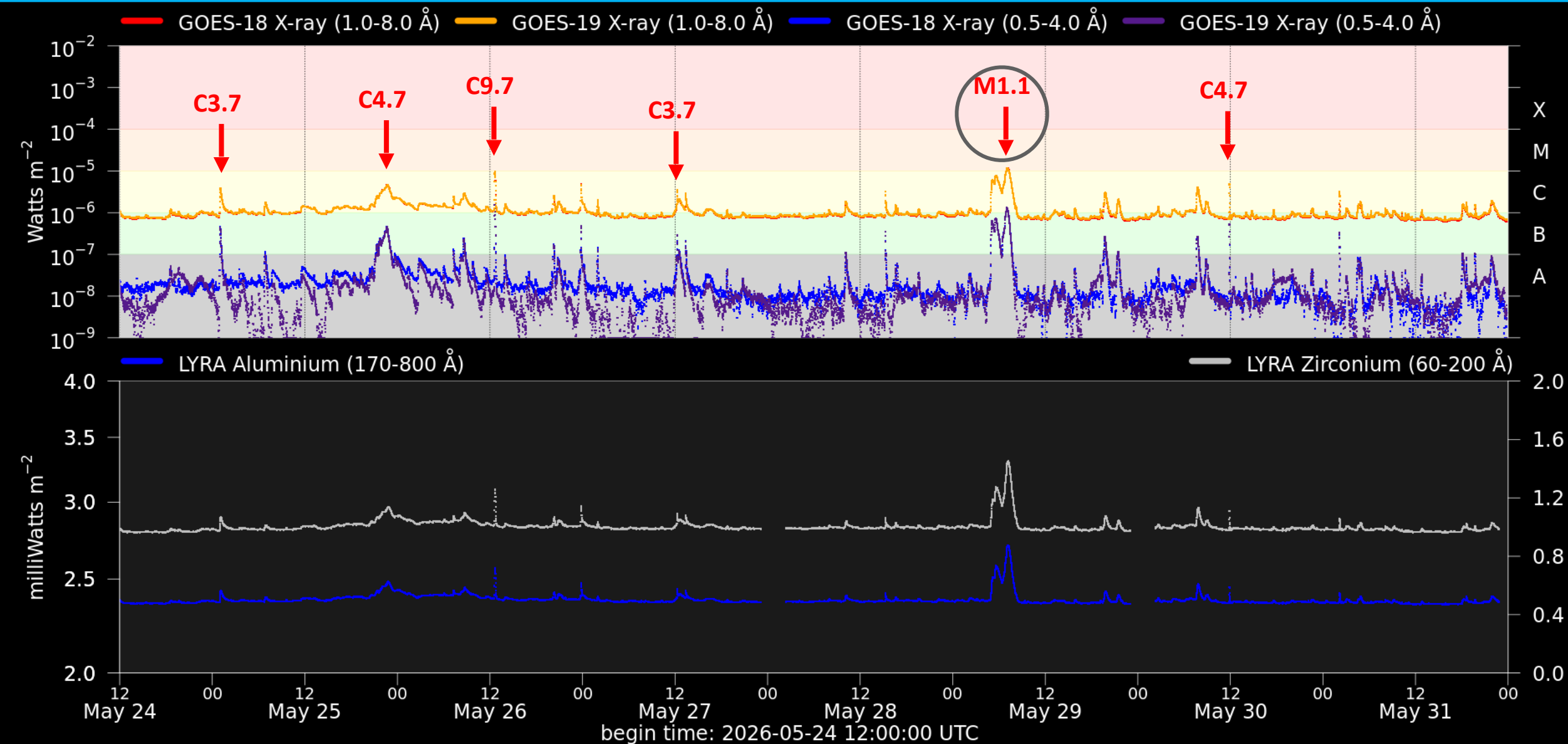
Flaring activity



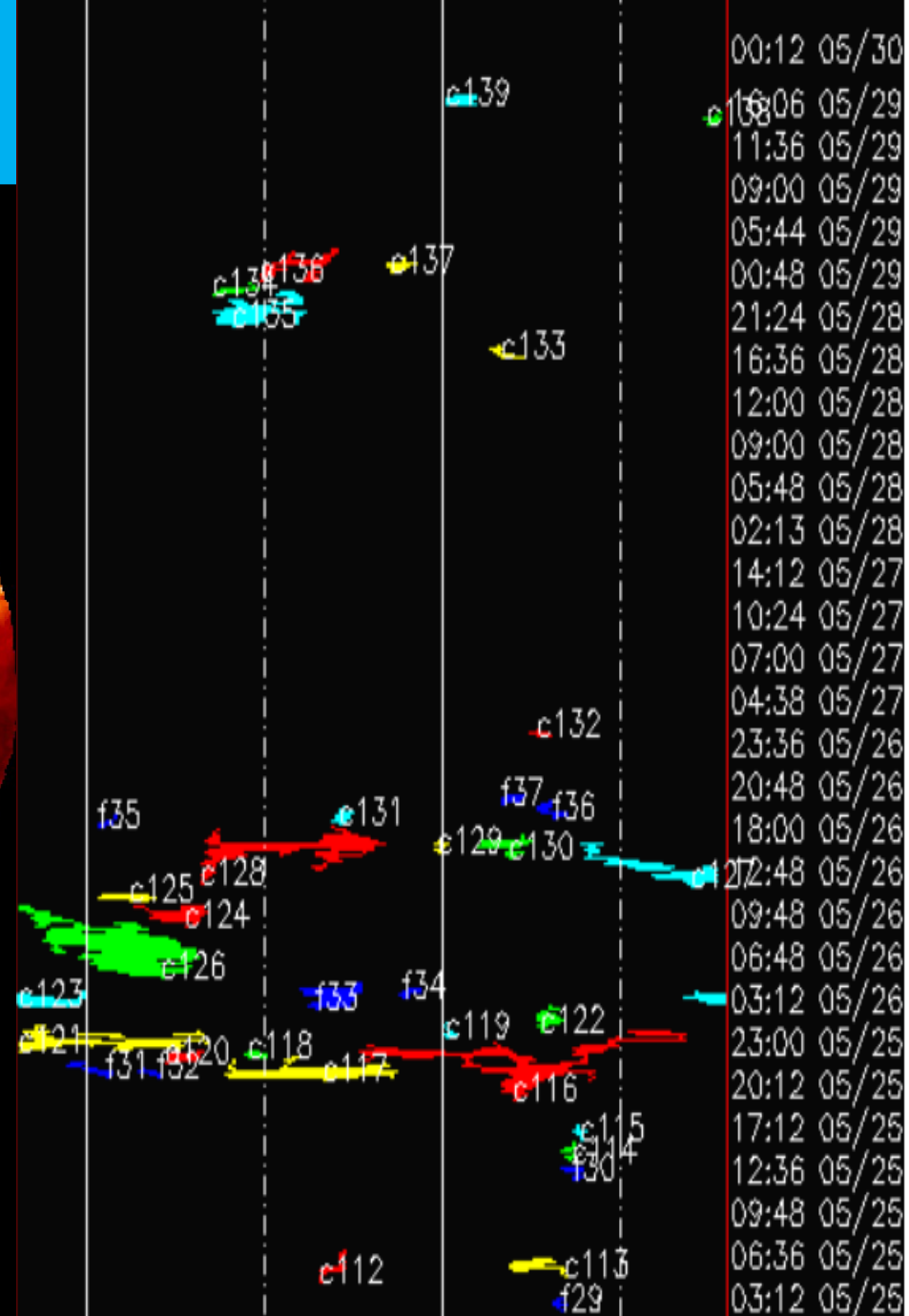
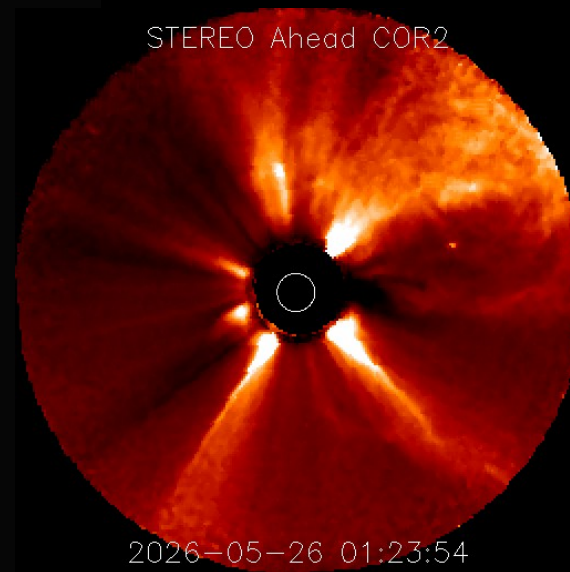
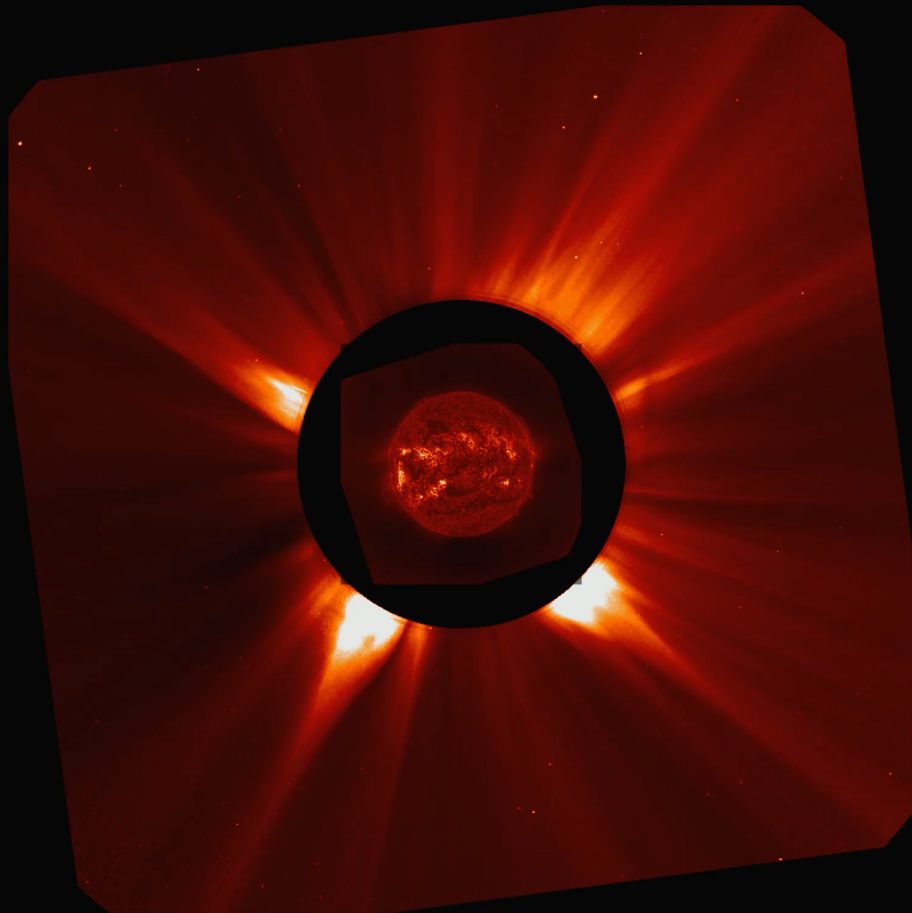
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2026-05-24	2026-05-25	2026-05-26	2026-05-27	2026-05-28	2026-05-29	2026-05-30	2026-05-31
Probability (%)	99 15 01	99 67 02	97 41 01	96 36 01	97 44 01	95 44 01	91 36 01	82 25 01
Observed (#)	02 00 00	01 00 00	04 00 00	03 00 00	01 01 00	04 00 00	04 00 00	05 00 00

Solar X-Ray and UV flux

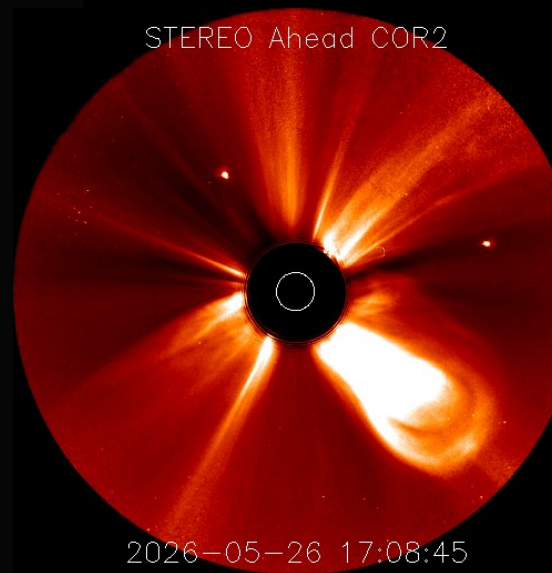
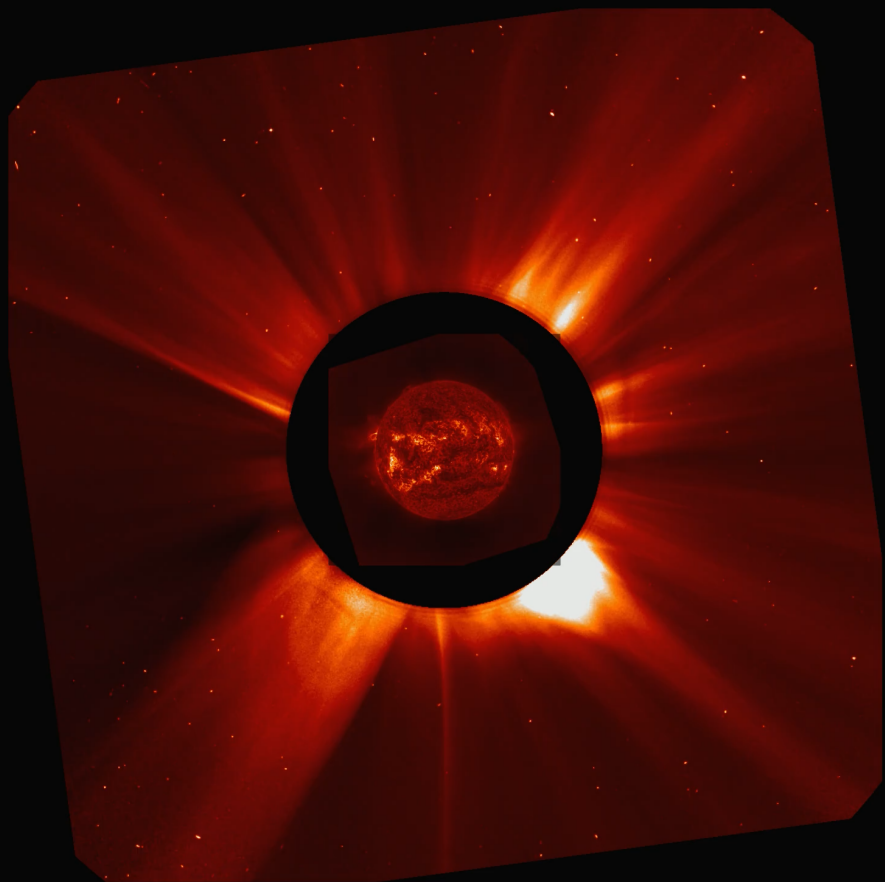


Coronal Mass Ejections

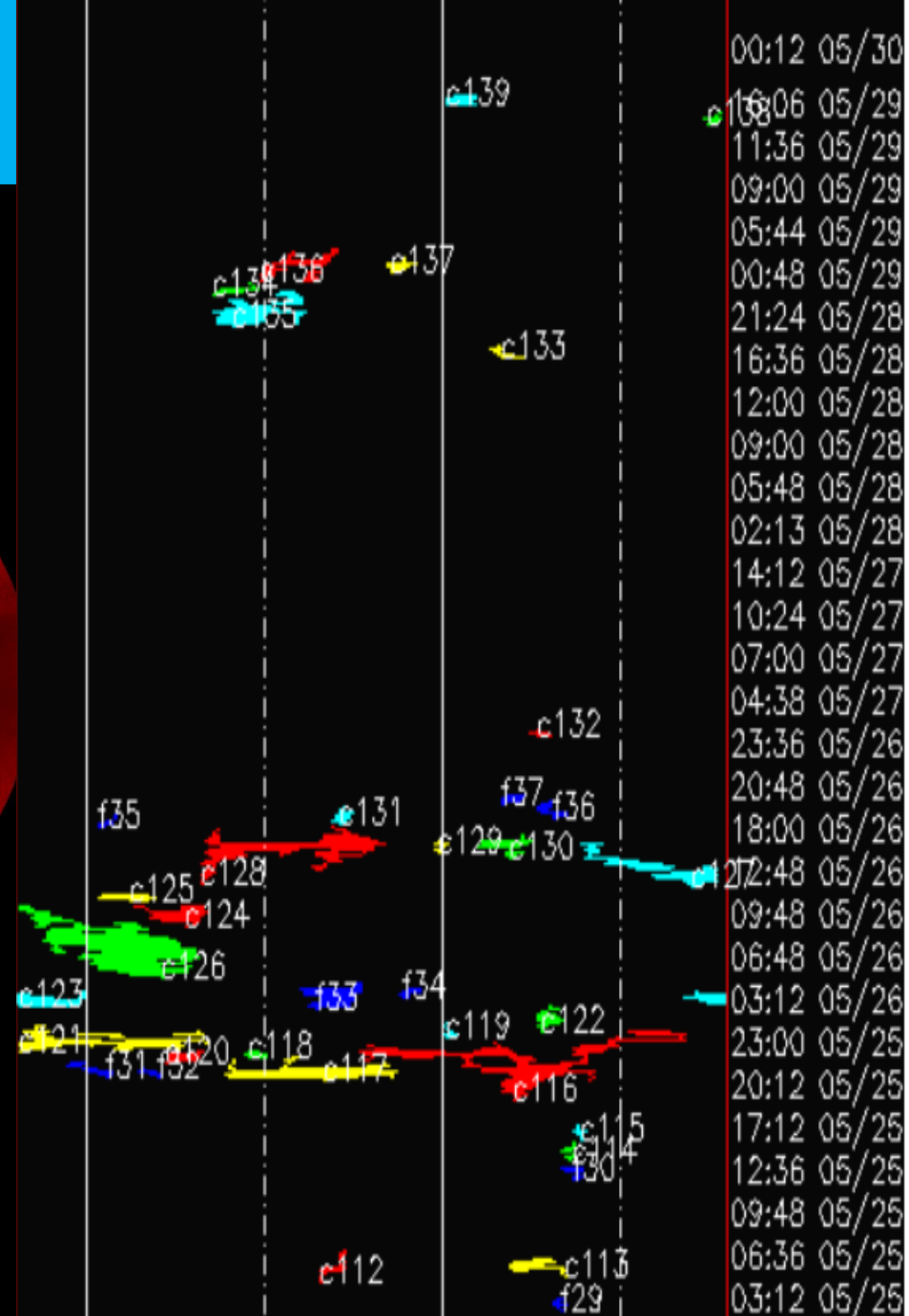


SIDC CME 658: Partial halo, $v \geq 1200$ km/s, backsided
Proton flux exceeded 10 pfu

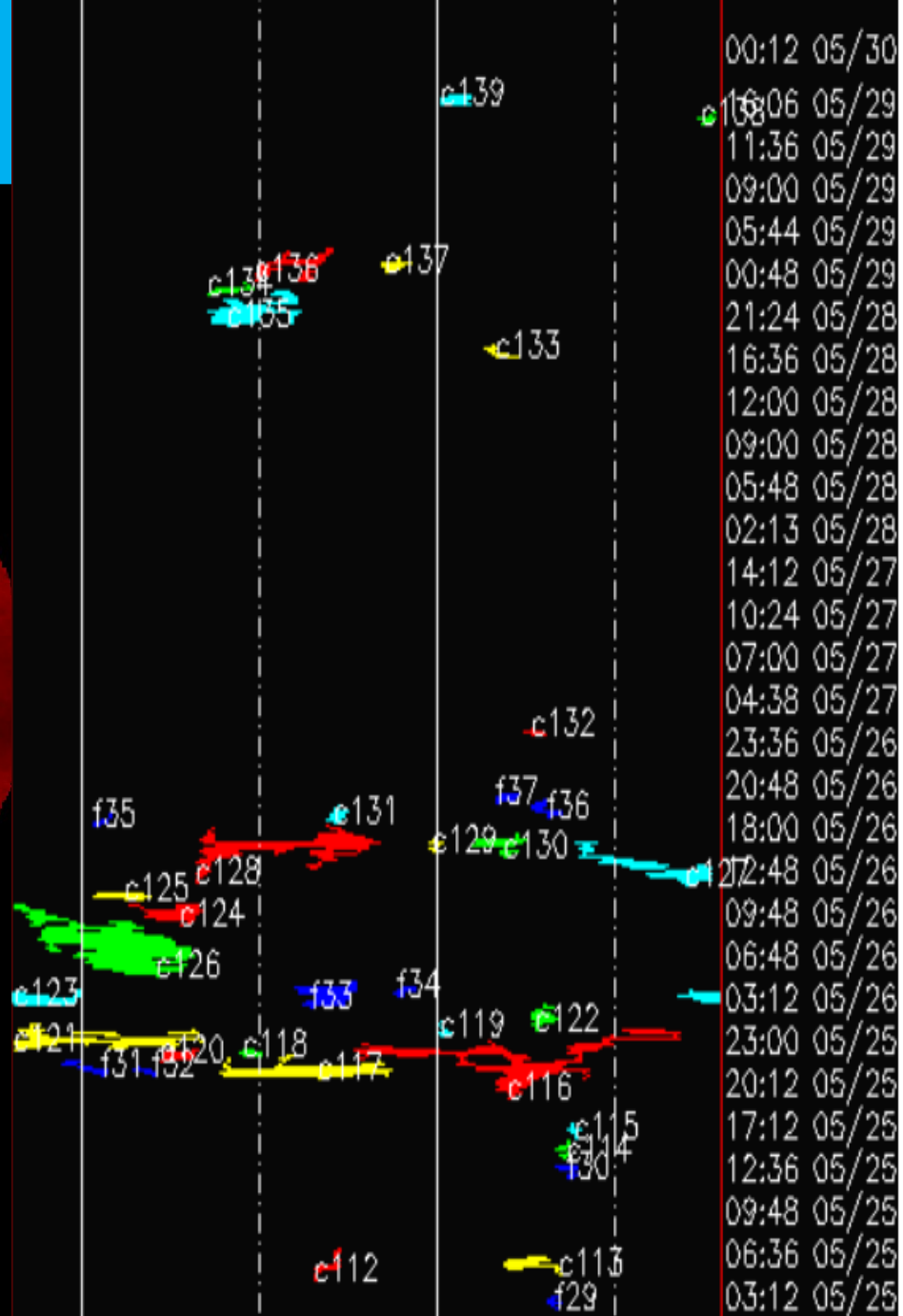
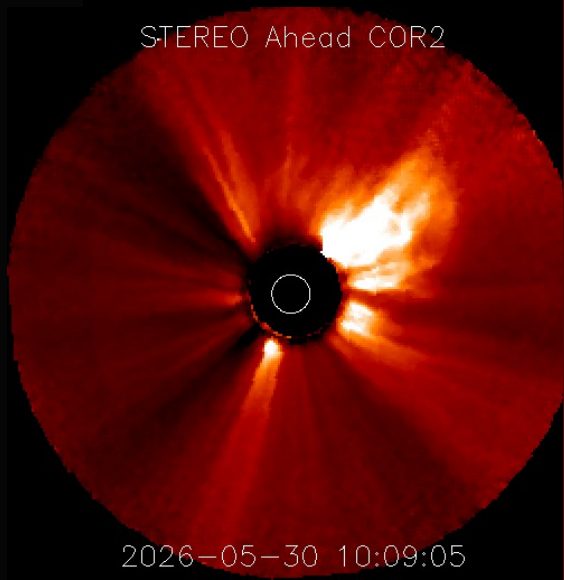
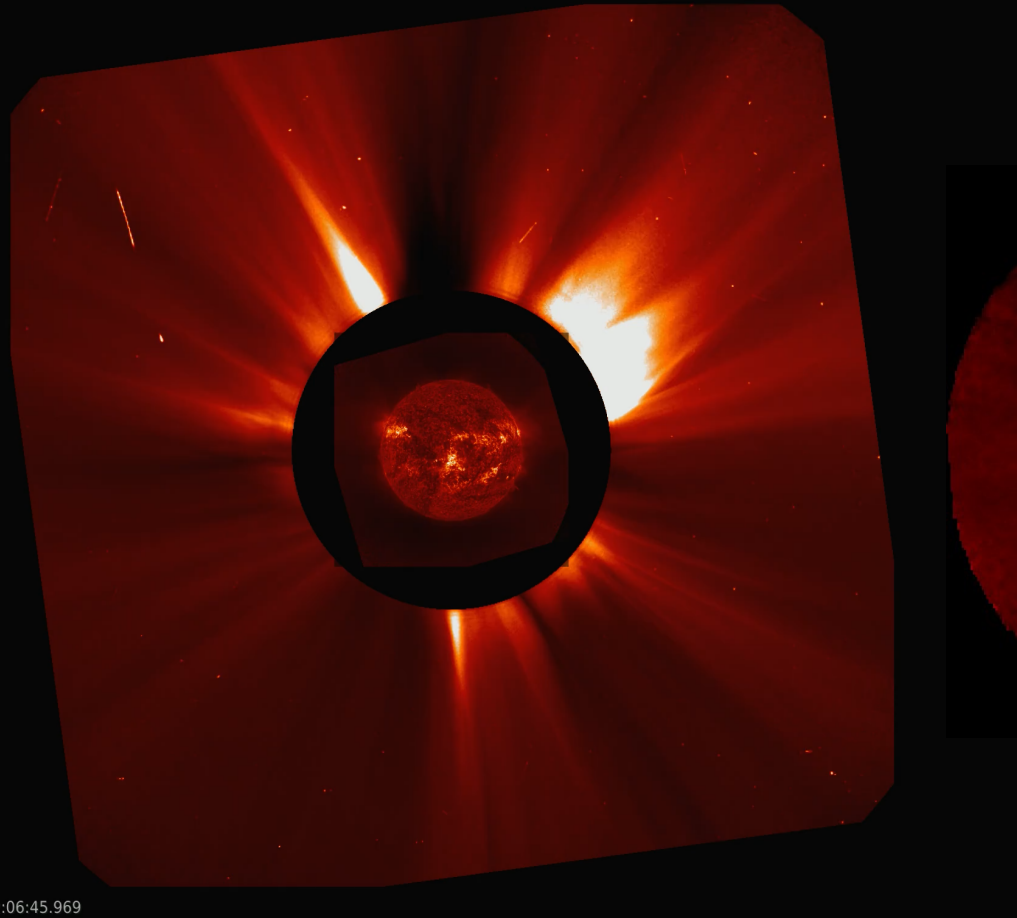
Coronal Mass Ejections



SIDC CME 660: Slow partial halo, backsided



Coronal Mass Ejections



SIDC CME 662: (Partial) halo, backsided

Solar Wind and

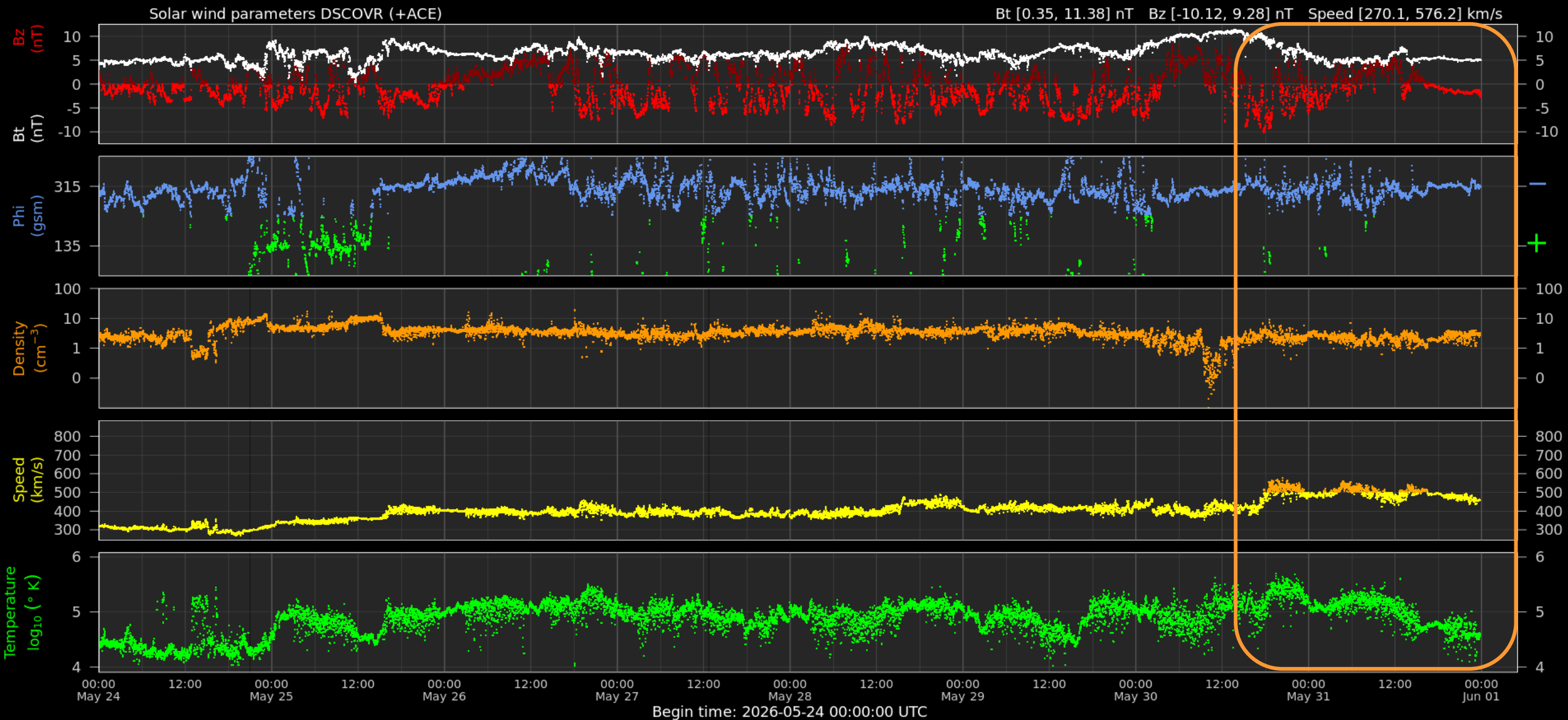
Geomagnetic Activity



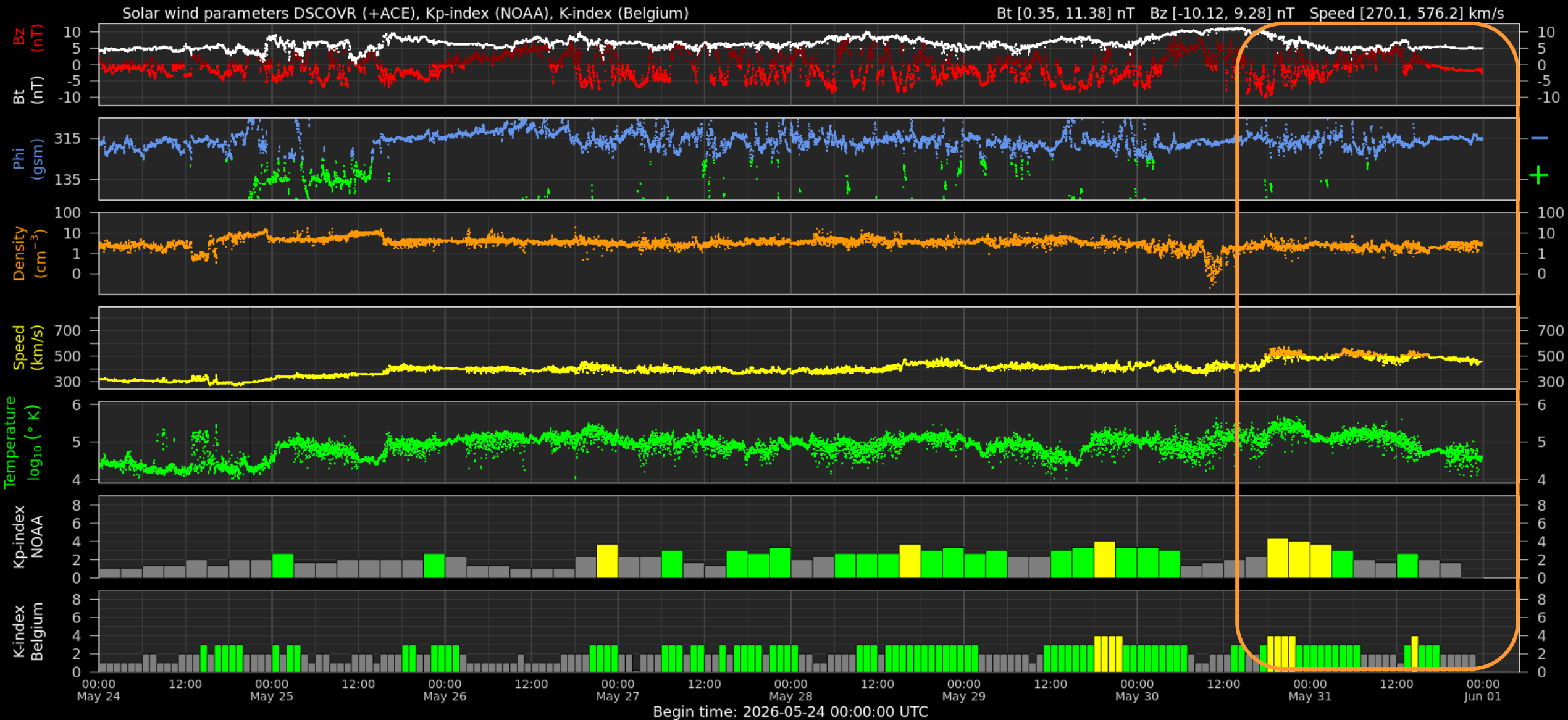
Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

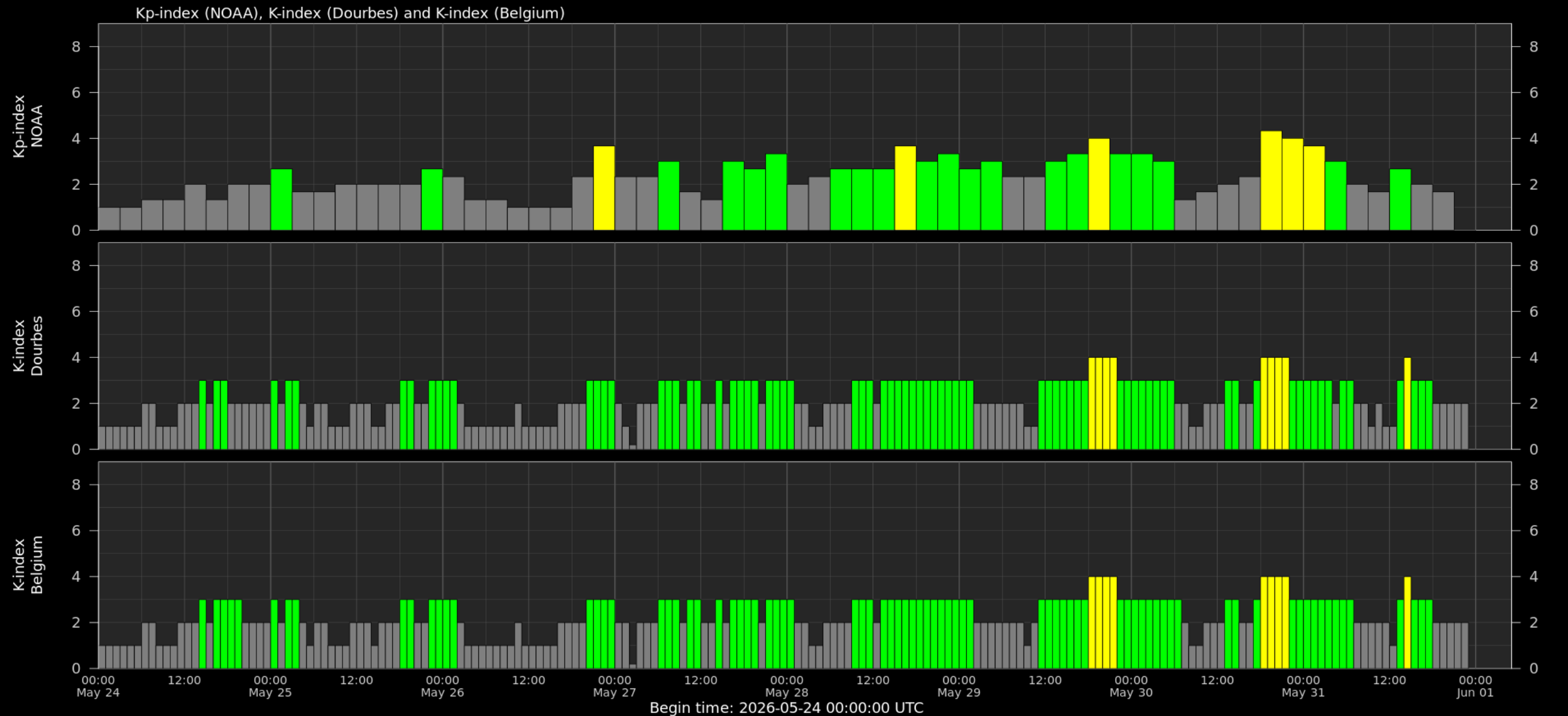
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



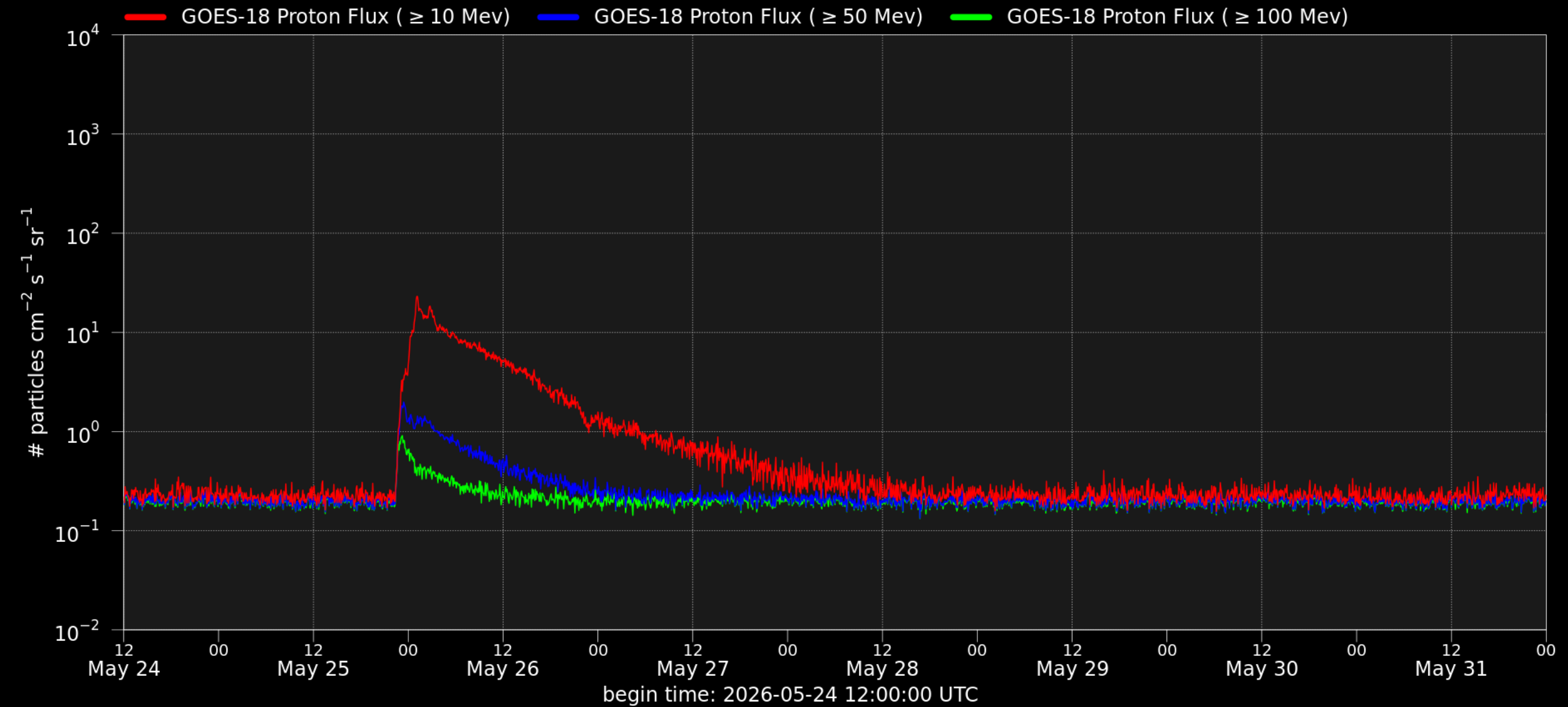
Energetic Particles



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

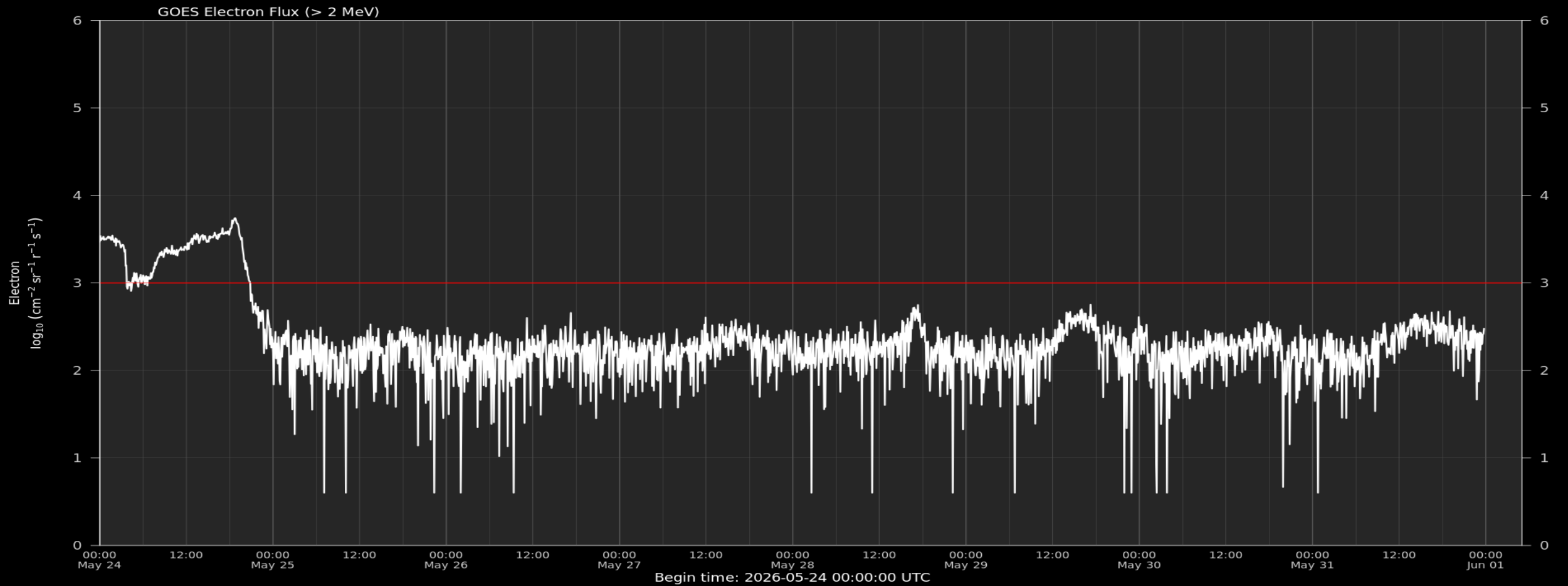
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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



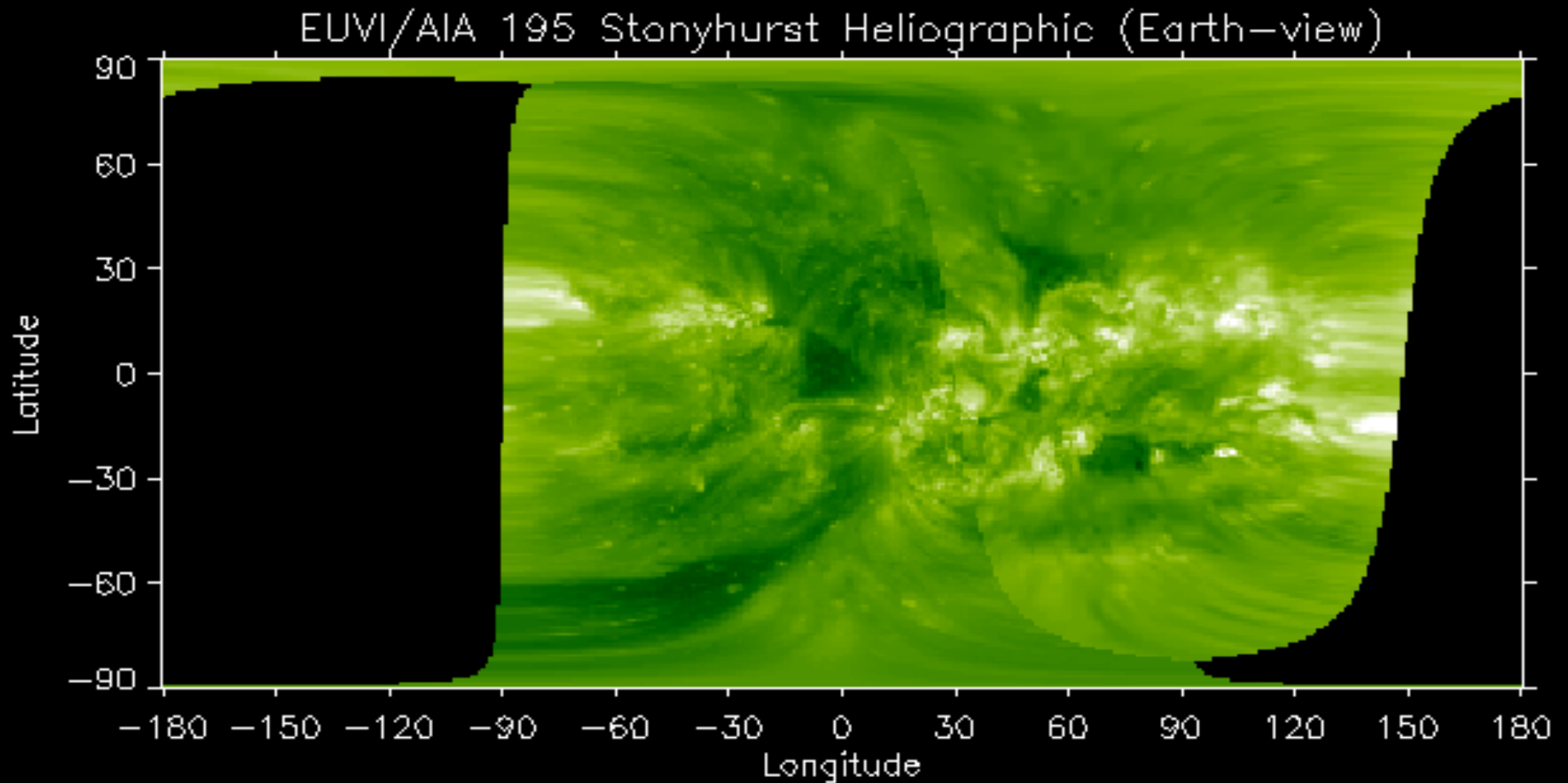
Outlook



Royal Observatory
of Belgium

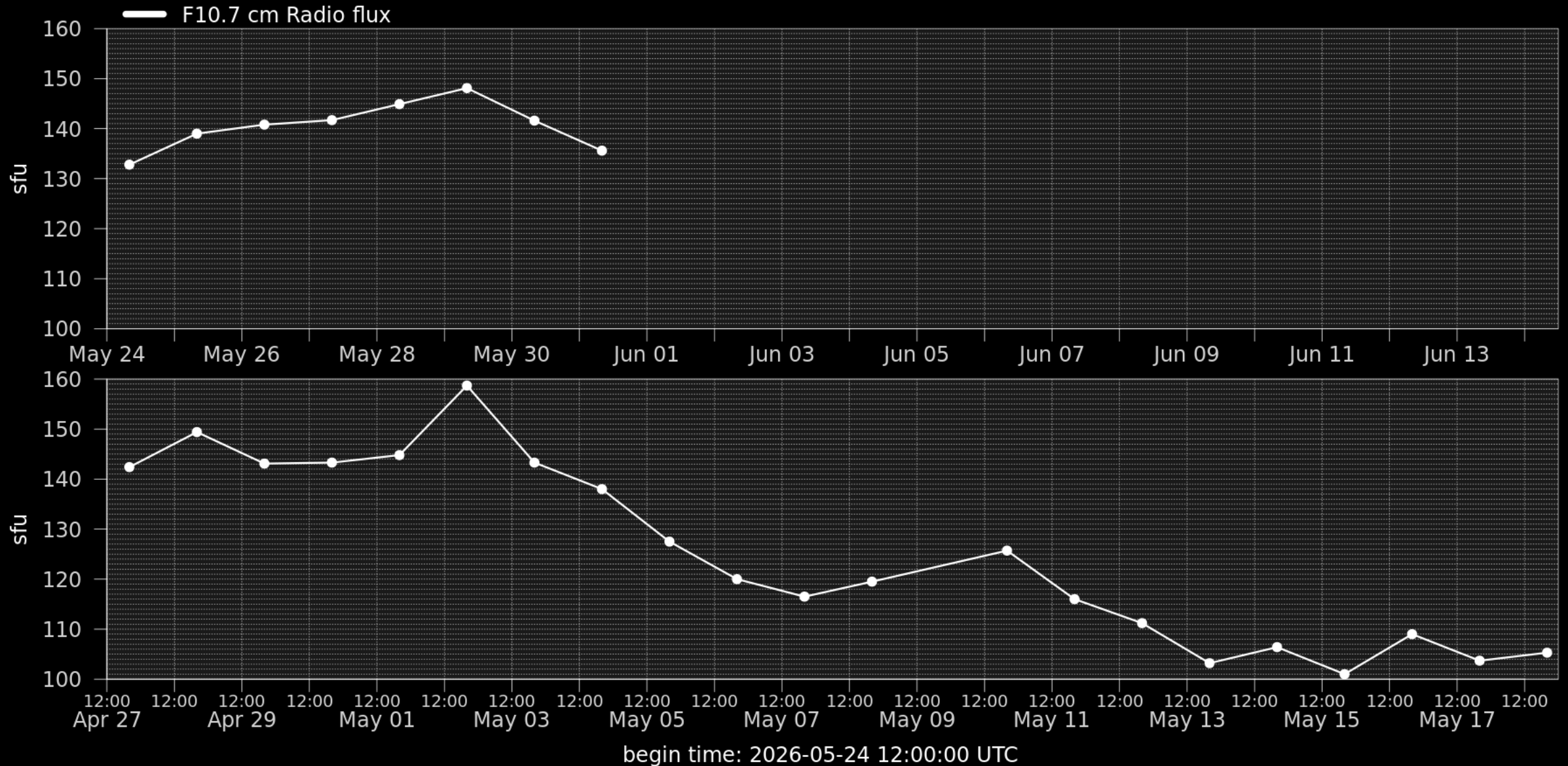
Solar Influences
Data analysis Centre
www.sidc.be

Outlook: Solar activity

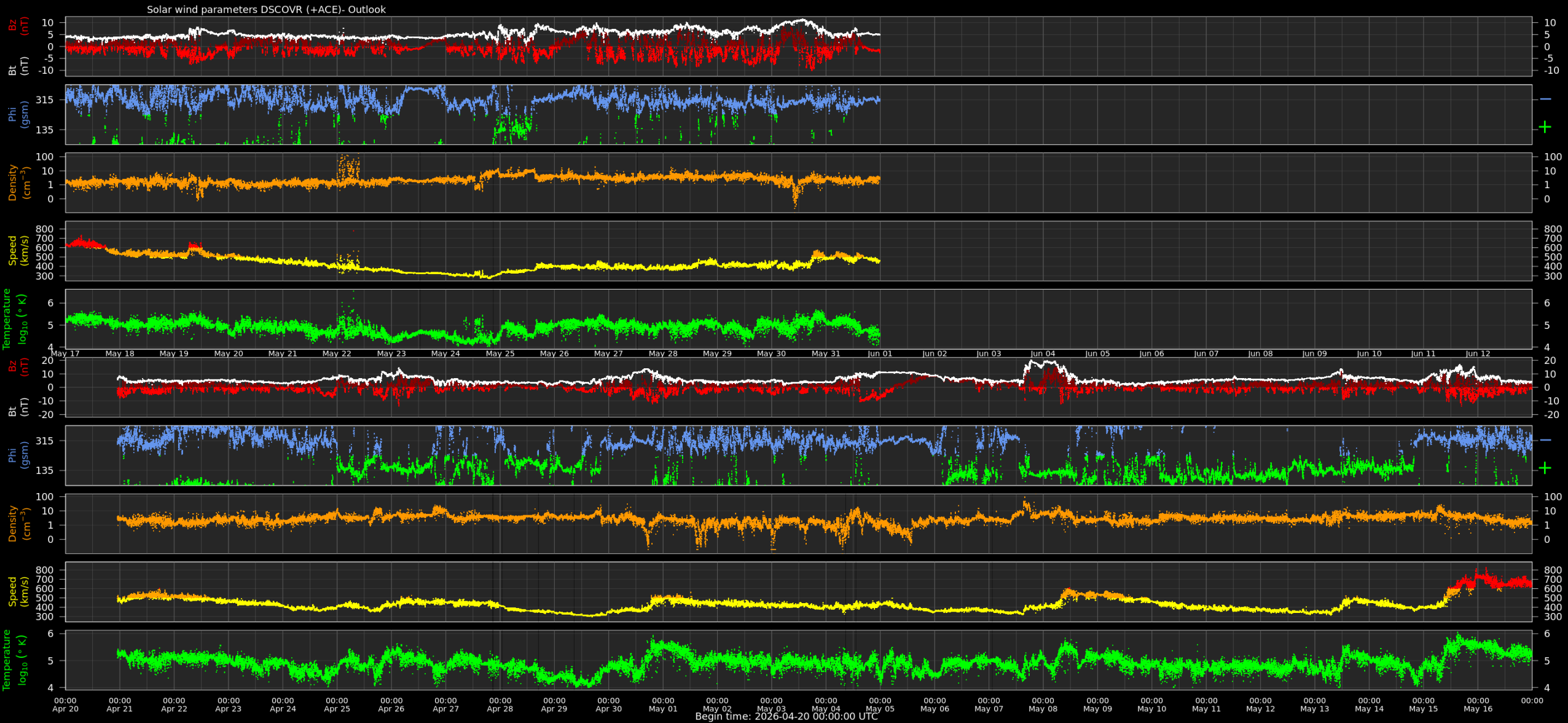


Observation date: 2026/05/31 20:05:00

Outlook: Solar F10.7cm radio flux



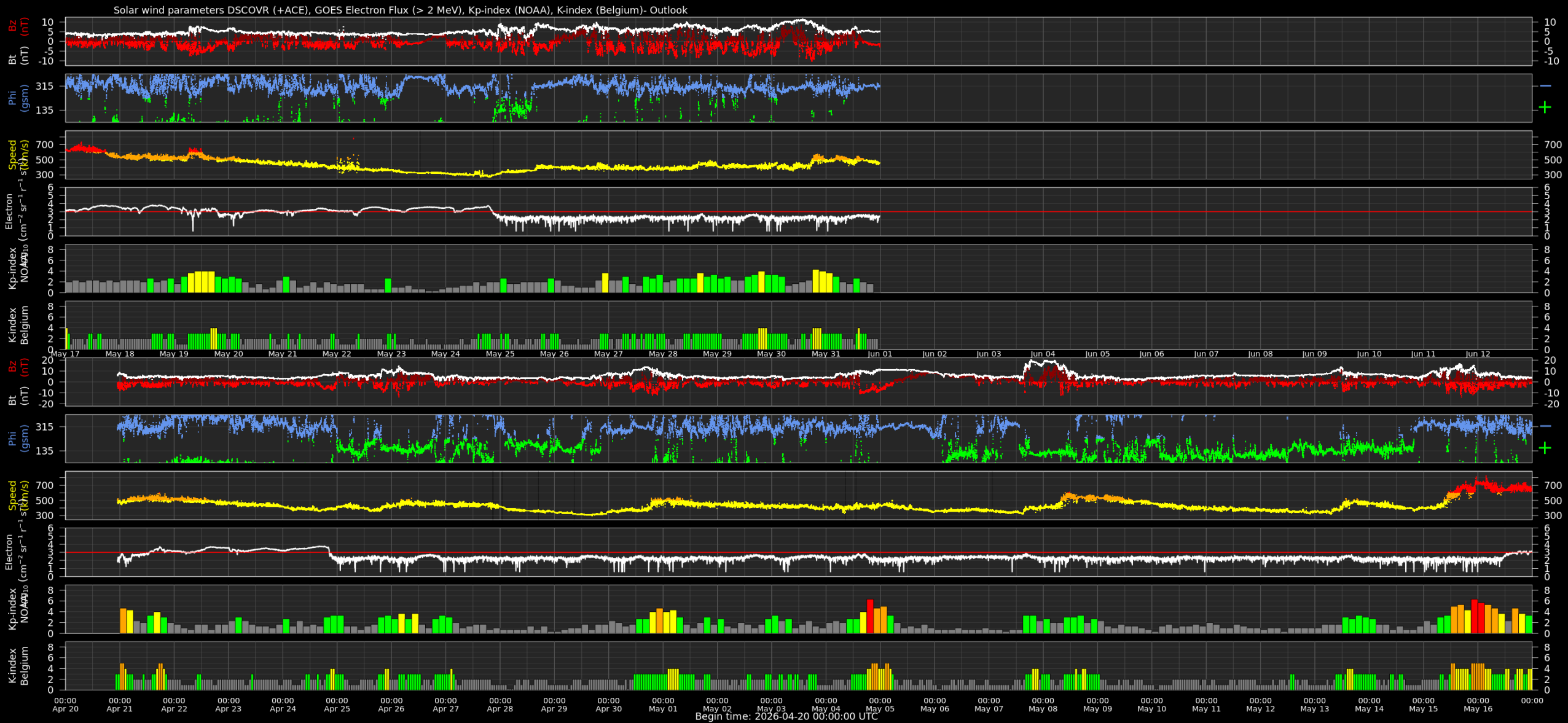
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Pegasus related events

MOC since 26/5

No advisories issued last week

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