

SIDC Space Weather Briefing

07 July 2025-13 July 2025

Vansintjan Robbe

& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2025-07-07 00:00 to 2025-07-13 23:59

Active regions	18 Active regions – NOAA 4127, 4136, 4140
Flares	# C-class flare: 54 # M-class flare: 5 # X-class flare: 0
Coronal Holes	CH- and CH+
CMEs	No Earth directed CMEs

Proton flux	At background level
Electron flux	The electron flux and fluence reached moderate levels

Solar wind and geomagnetic conditions

ICMEs	No ICMEs arrivals at Earth
Solar wind conditions	B : 0.07 - 14.45 nT //Bz: -11.03 nT to 11.61 nT //Speed: 323.5 - 730.9km/s
Geomagnetic conditions	max K _{Be} : 4.0, max K _p (NOAA): 5.33, Minor Storm conditions

All Quiet Alert: Off

Solar Activity

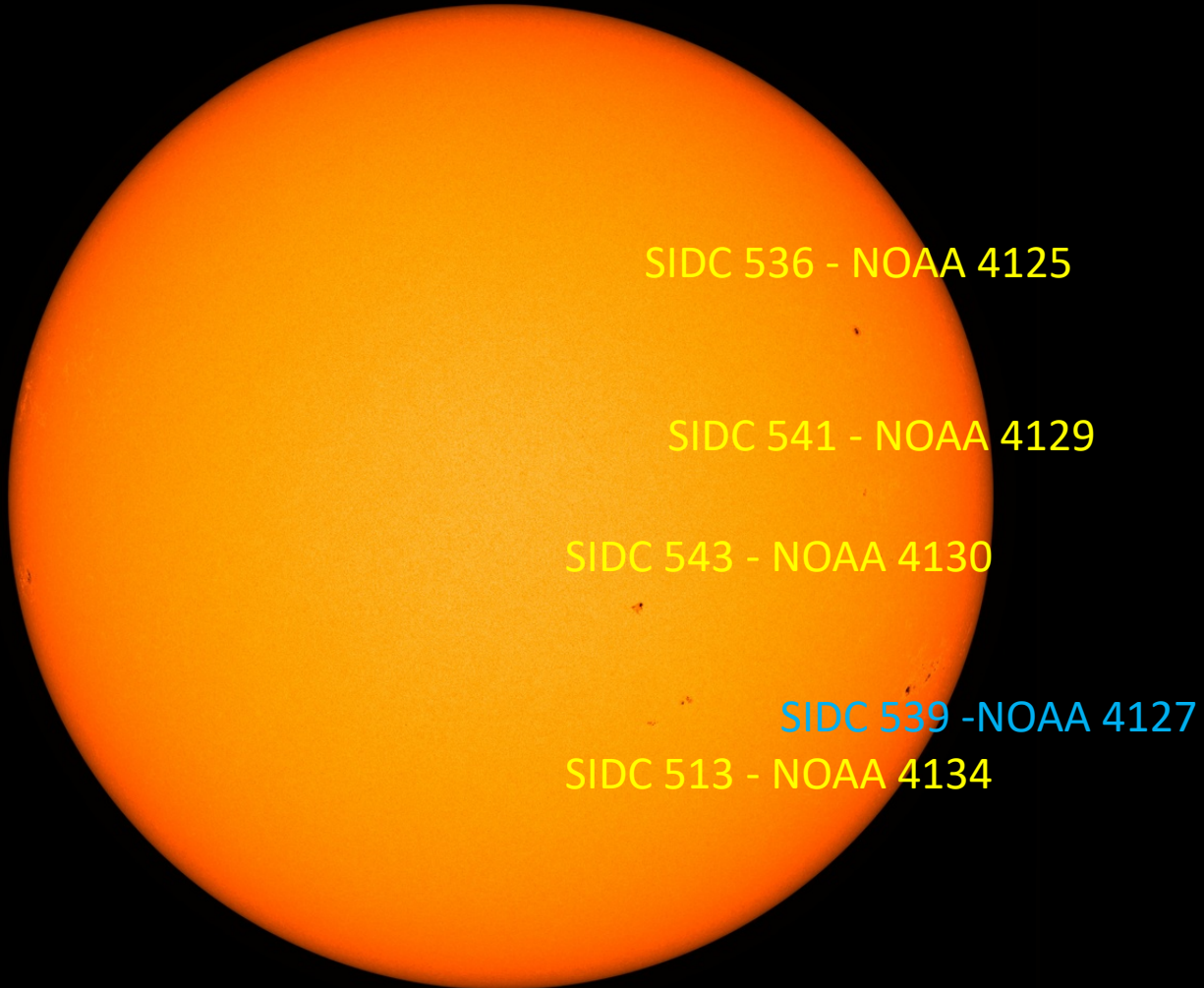


Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

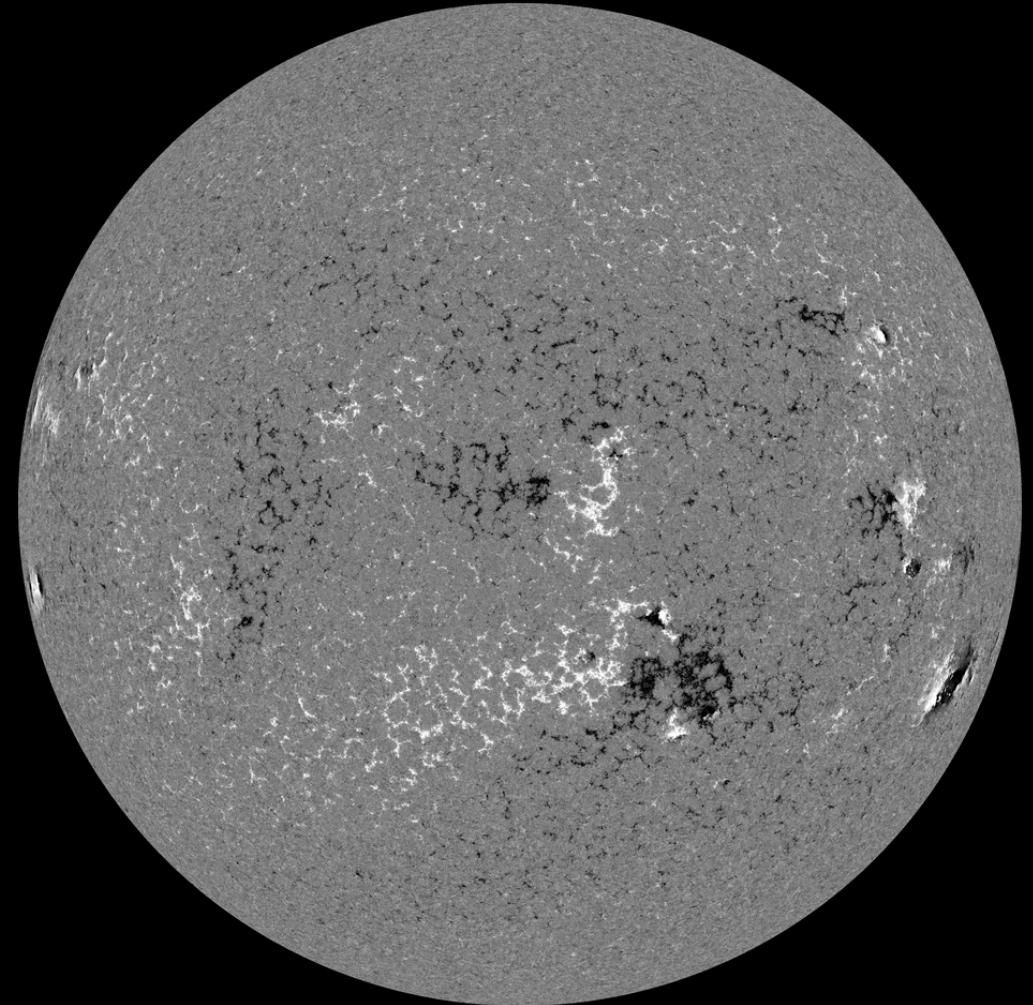
Solar active regions

SDO/HMI White Light 2025-07-07



SDO/HMI Quick-Look Continuum: 20250707_113000

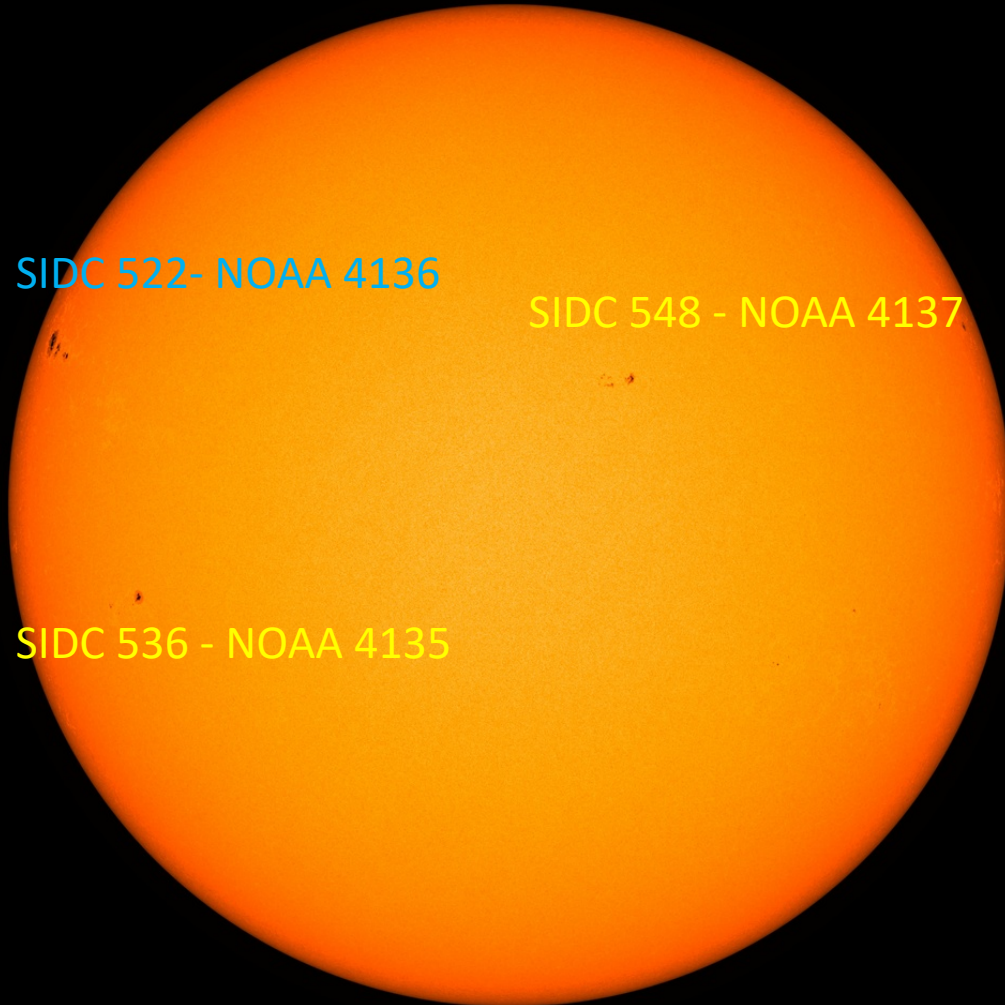
SDO/HMI Magnetogram 2025-07-07



SDO/HMI Quick-Look Magnetogram: 20250707_113000

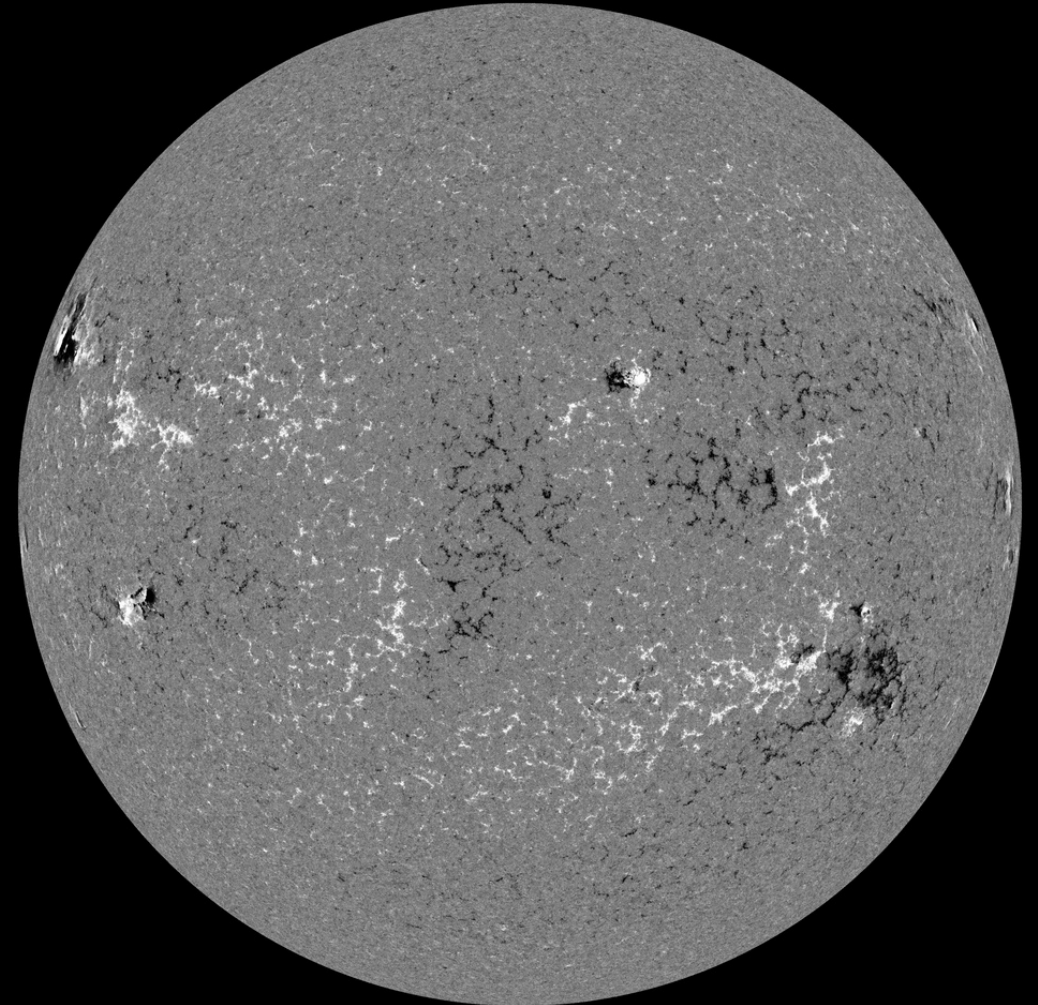
Solar active regions

SDO/HMI White Light 2025-07-09



SDO/HMI Quick-Look Continuum: 20250709_114500

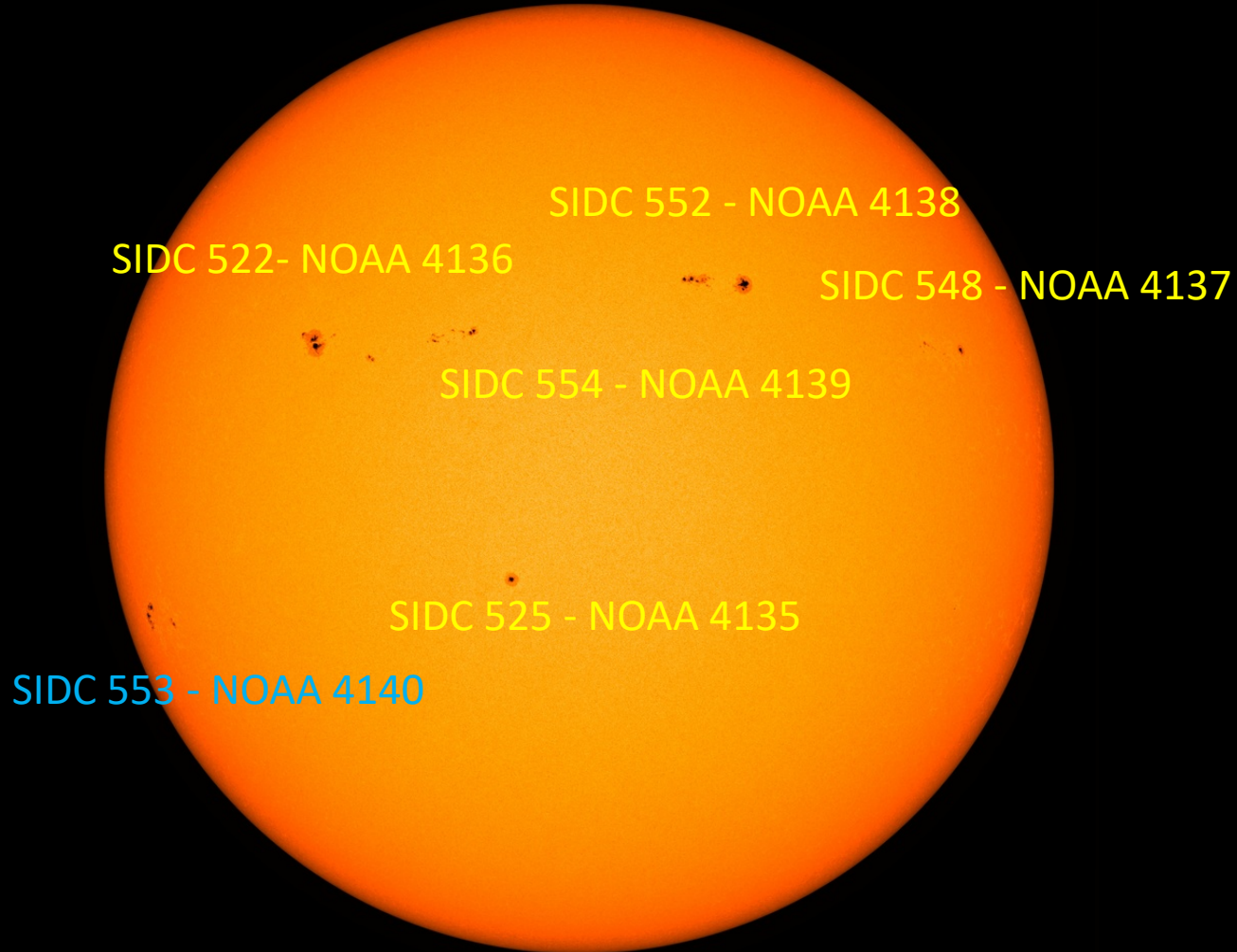
SDO/HMI Magnetogram 2025-07-09



SDO/HMI Quick-Look Magnetogram: 20250709_114500

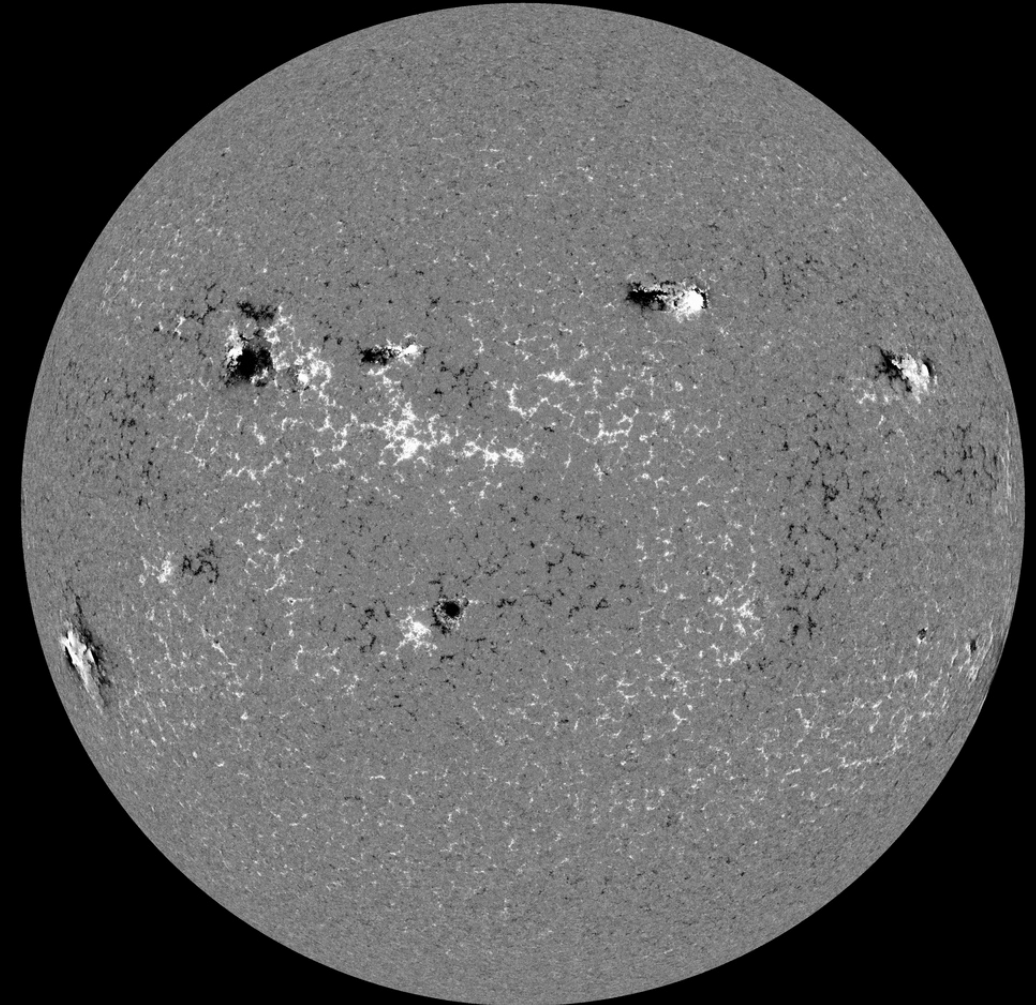
Solar active regions

SDO/HMI White Light 2025-07-12



SDO/HMI Quick-Look Continuum: 20250712_114500

SDO/HMI Magnetogram 2025-07-12

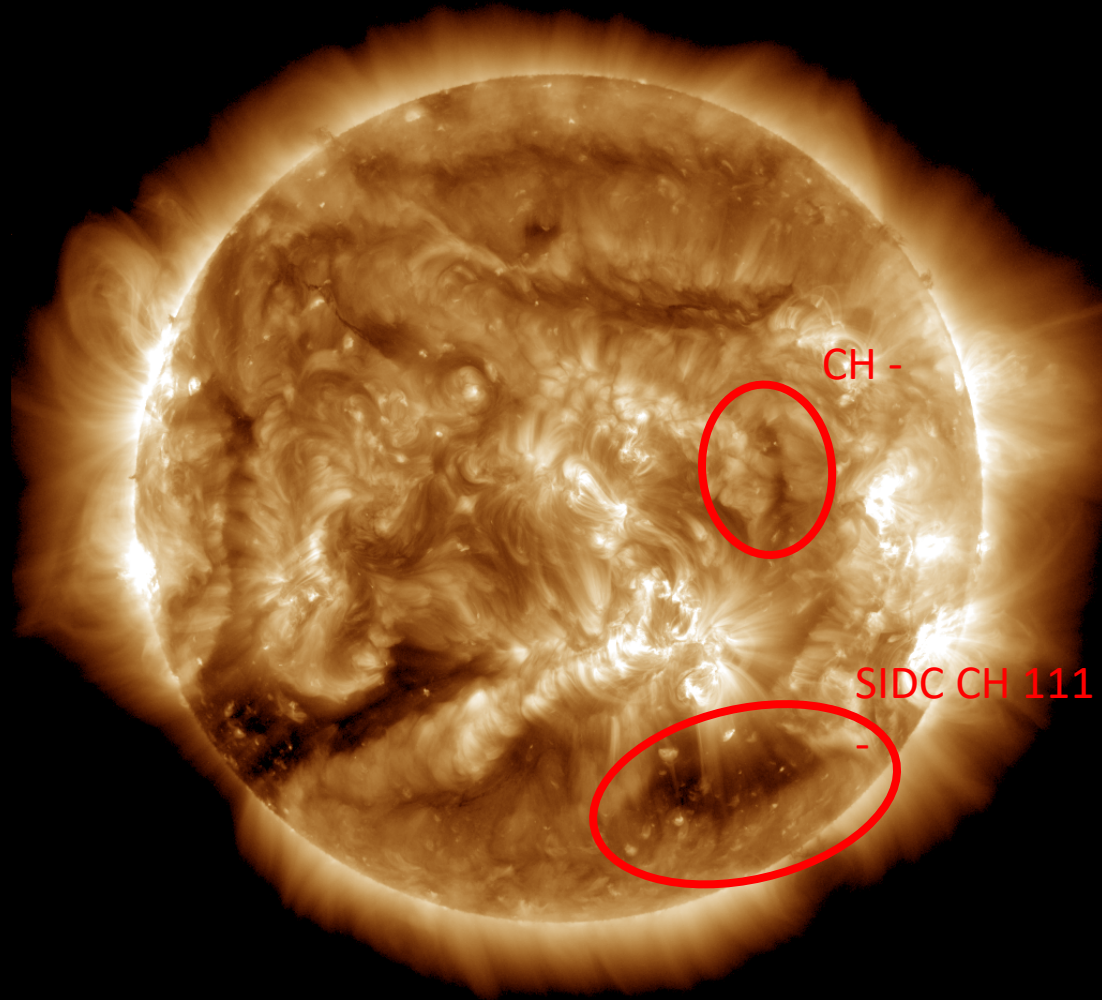


SDO/HMI Quick-Look Magnetogram: 20250712_114500

Coronal holes

SDO/AIA 19.3 nm 2025-07-07

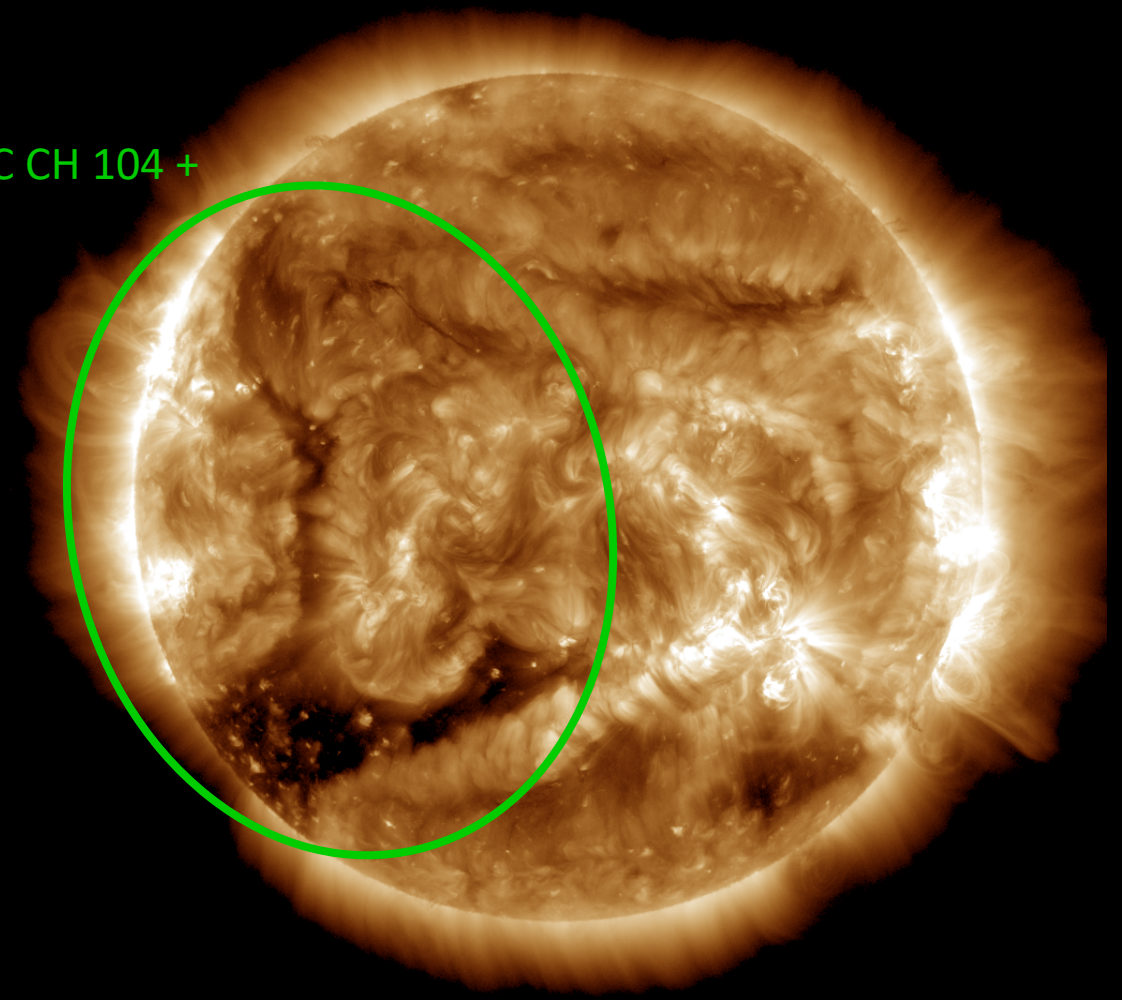
SDO/AIA AIA 193Å 2025-07-07T12:00:05.843



SDO/AIA 19.3 nm 2025-07-08

SDO/AIA AIA 193Å 2025-07-08T12:00:05.843

SIDC CH 104 +

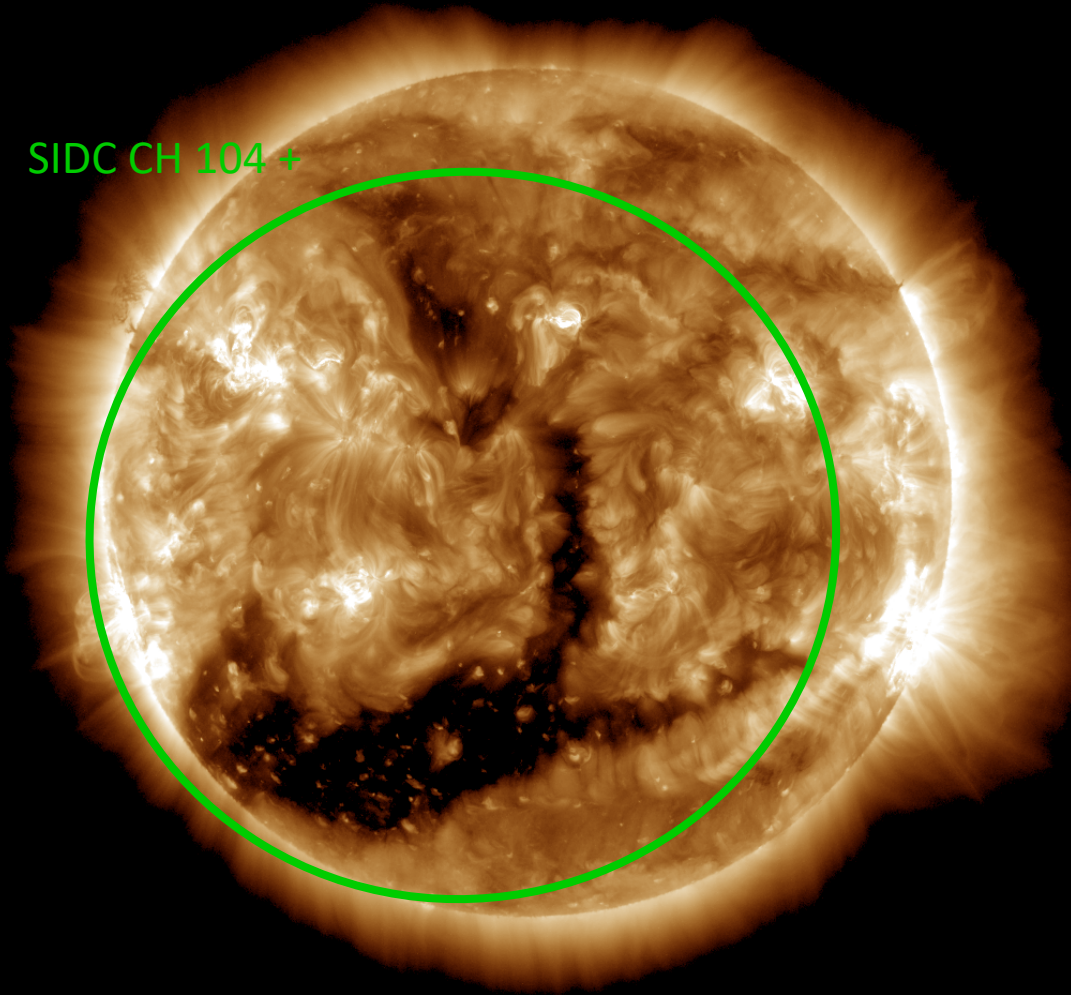


Coronal holes

SDO/AIA 19.3 nm 2025-07-11

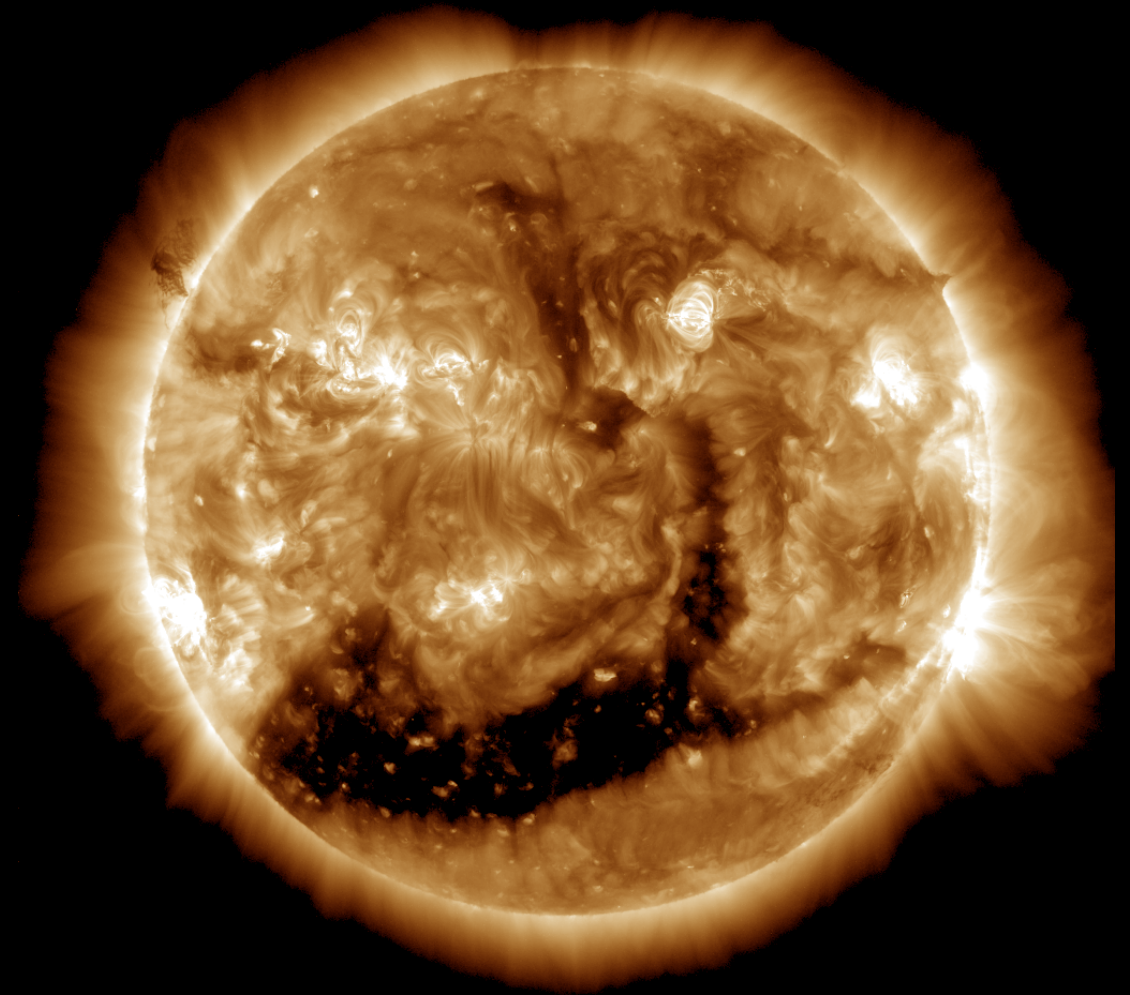
SDO/AIA AIA 193Å 2025-07-11T12:00:05.843

SIDC CH 104 +



SDO/AIA 19.3 nm 2025-07-12

SDO/AIA AIA 193Å 2025-07-12T12:00:05.843



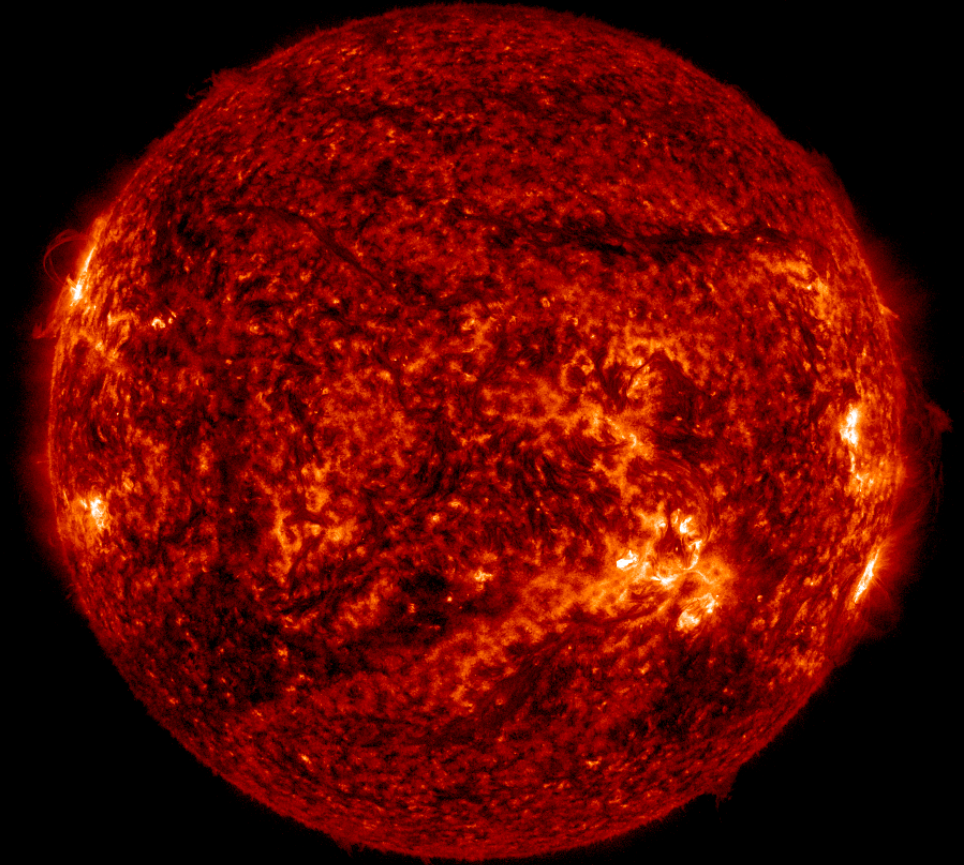
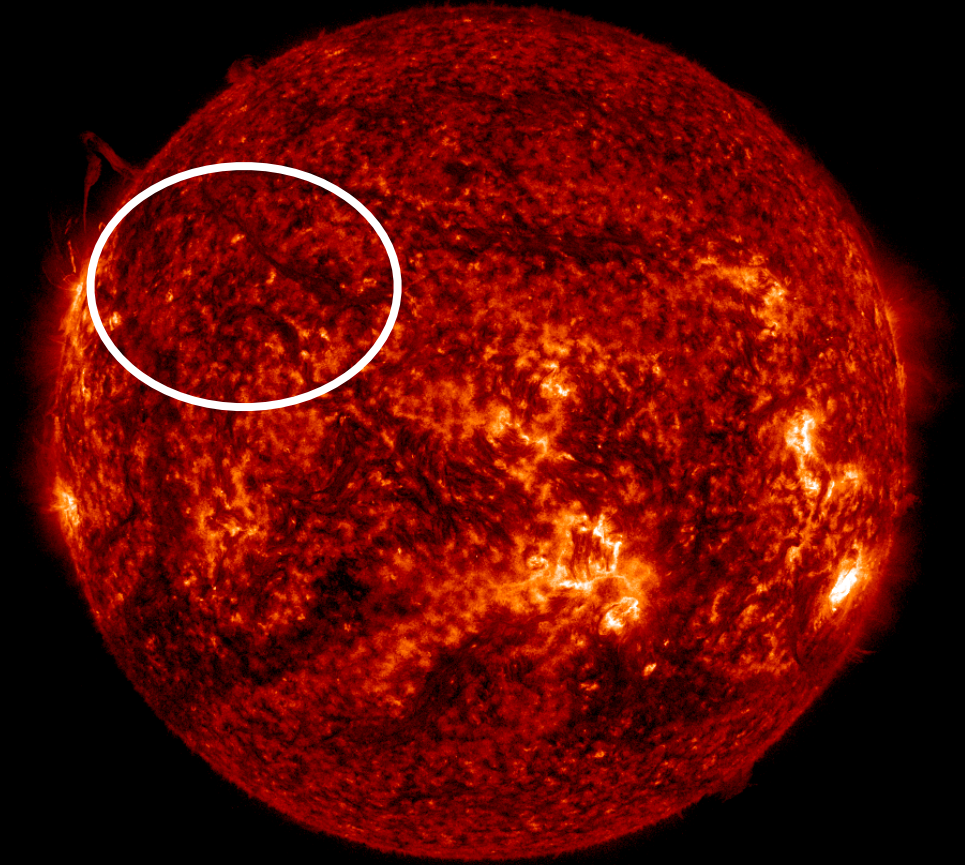
Filaments

SDO/AIA 30.4 nm 2025-07-07

SDO/AIA AIA 304Å 2025-07-07T12:00:06.580

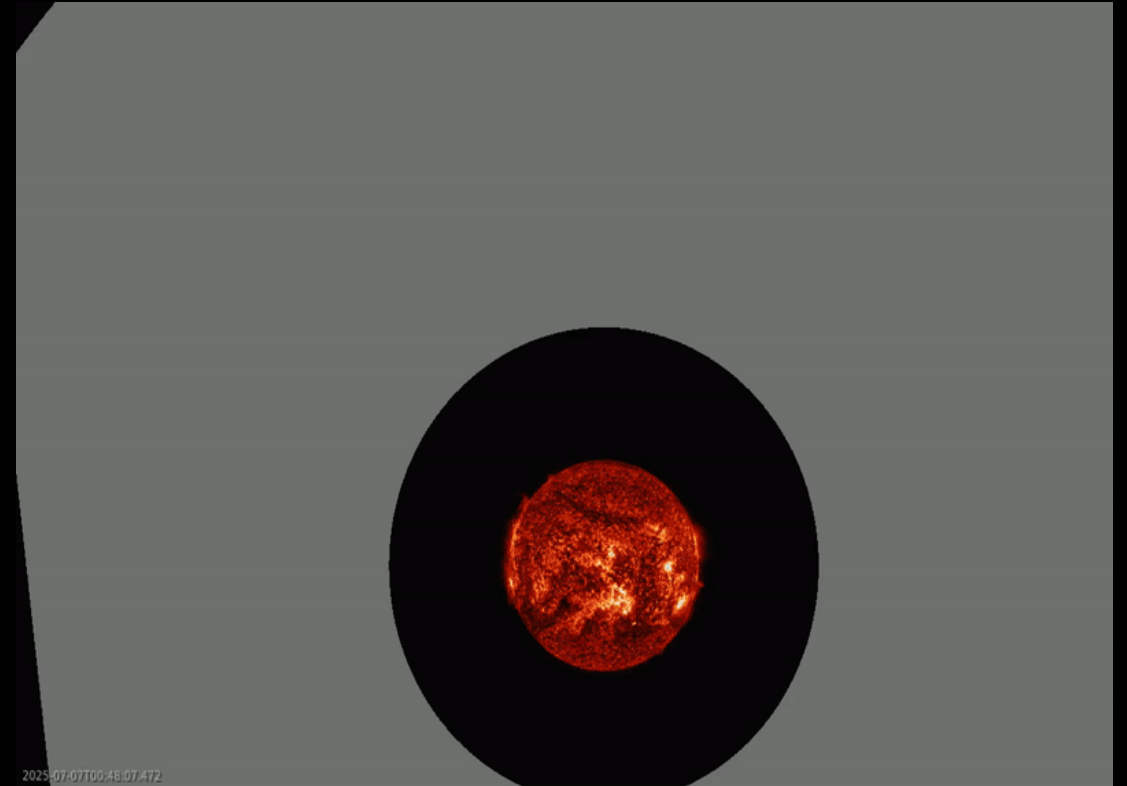
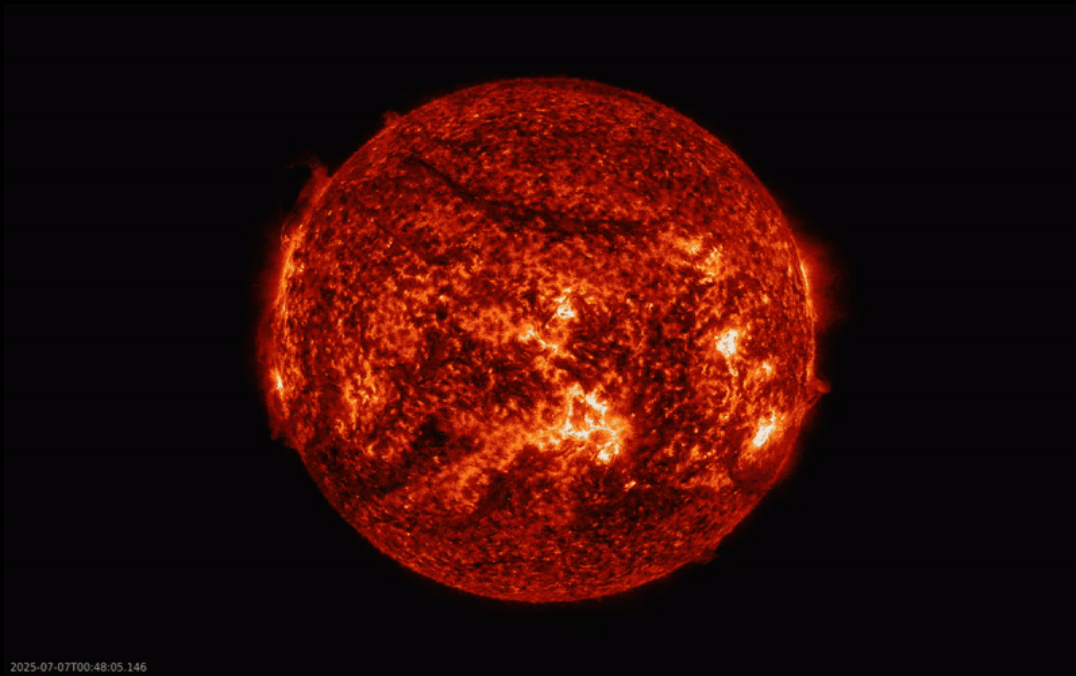
SDO/AIA 30.4 nm 2025-07-08

SDO/AIA AIA 304Å 2025-07-08T12:00:06.580



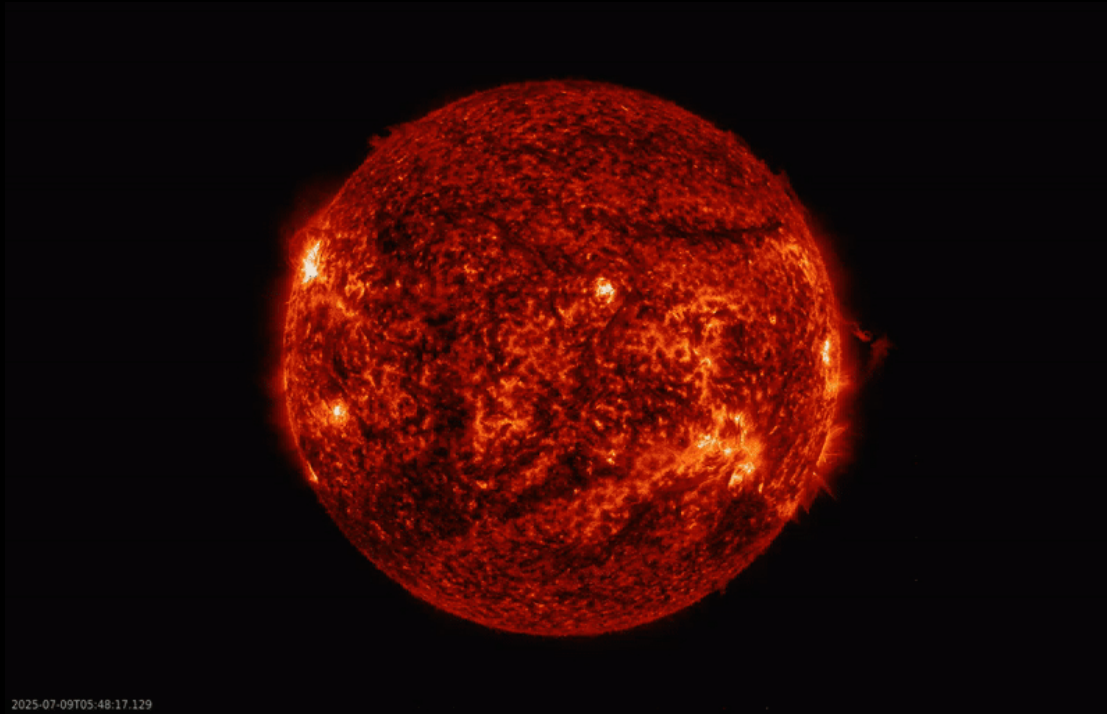
Filaments

SDO/AIA 30.4 nm 2025-07-07



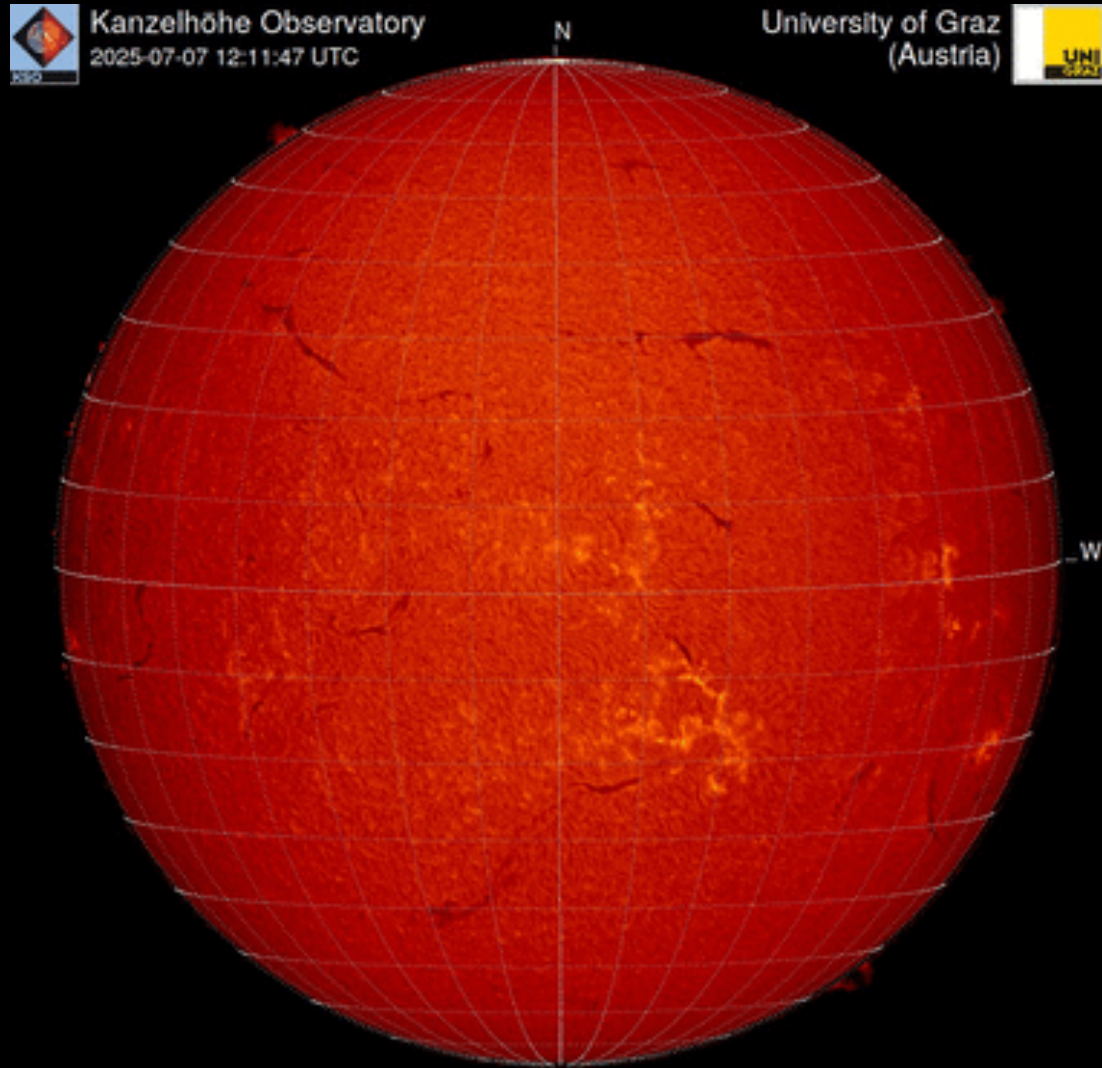
Filaments

SDO/AIA 30.4 nm 2025-07-09

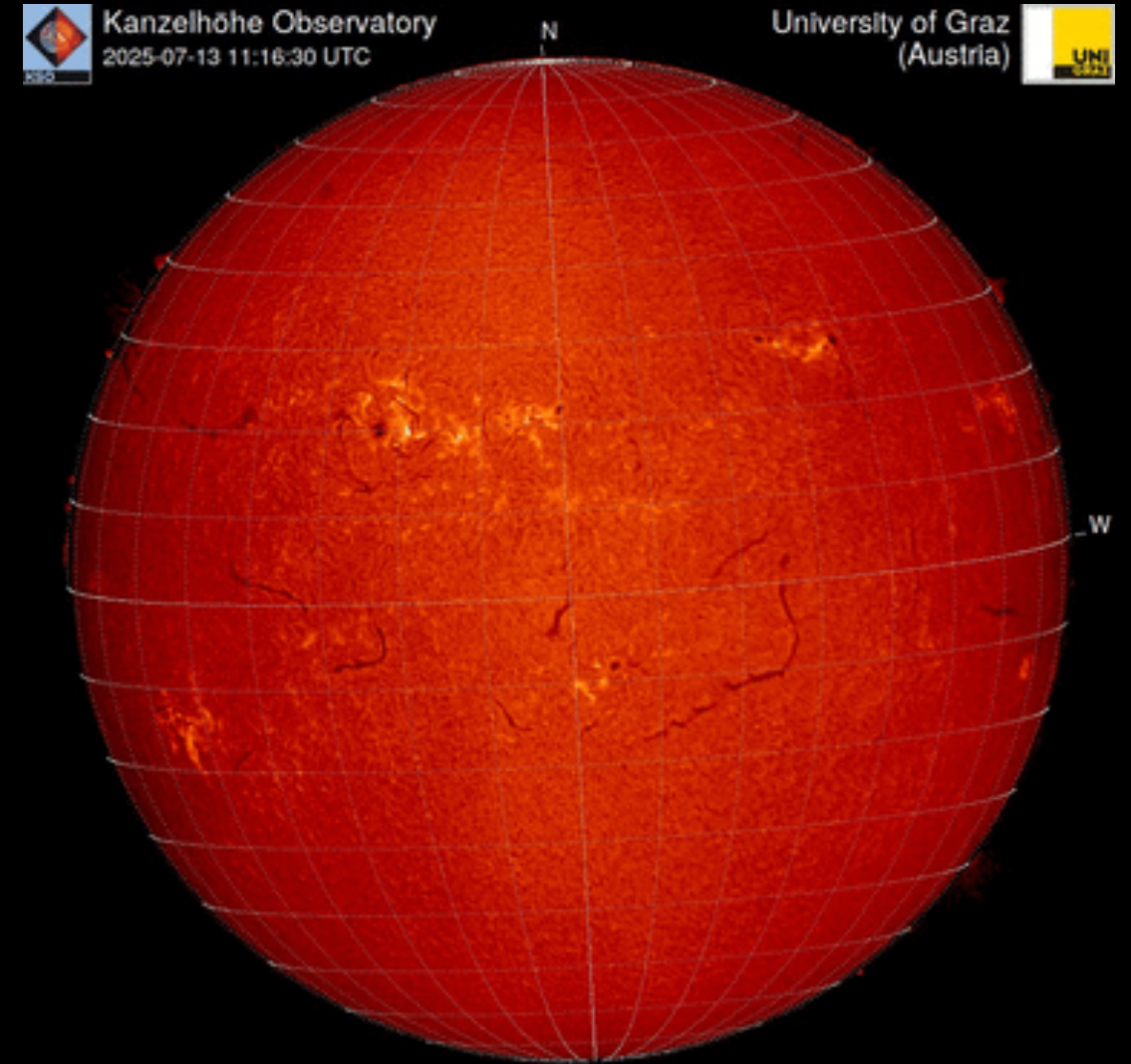


Filaments & Filament eruptions

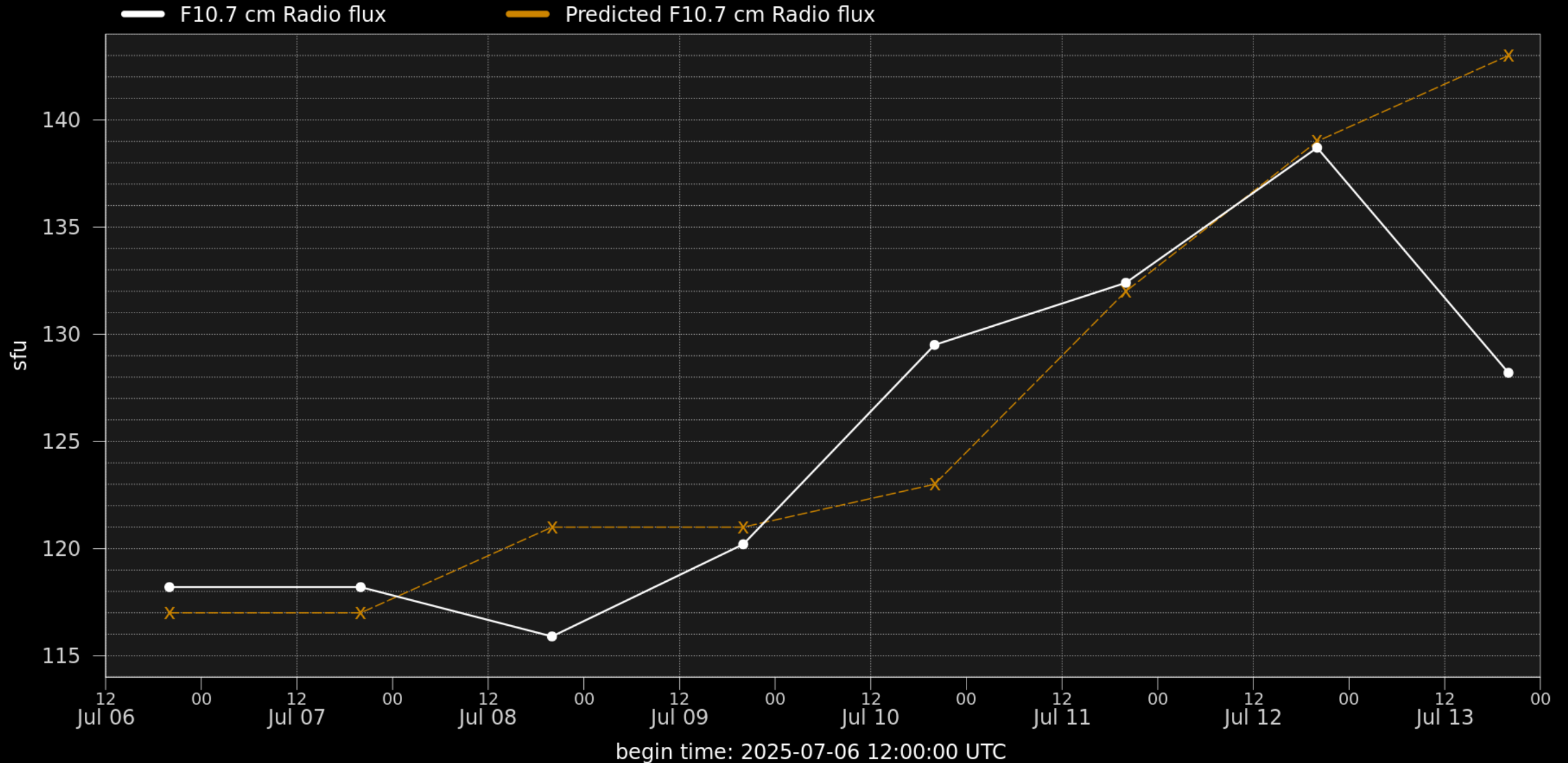
H-alpha 2025-07-07



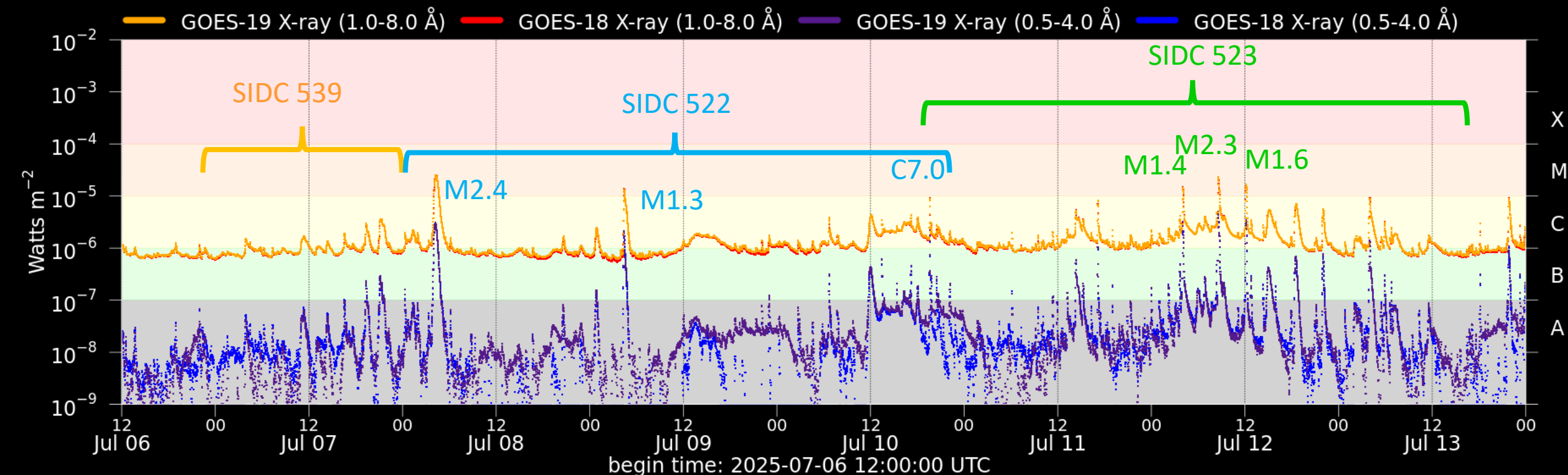
H-alpha 2025-07-13



Solar F10.7cm radio flux



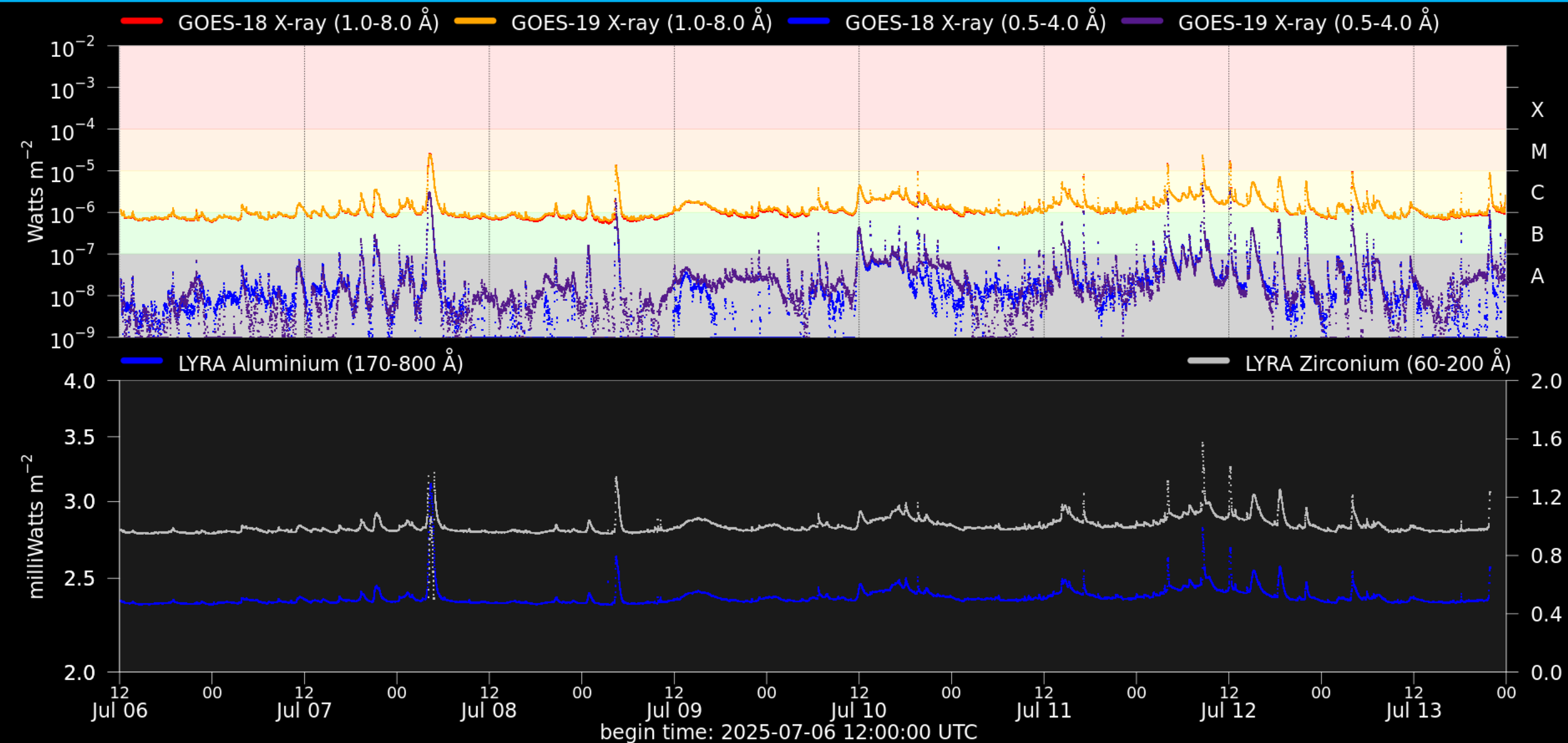
Flaring activity



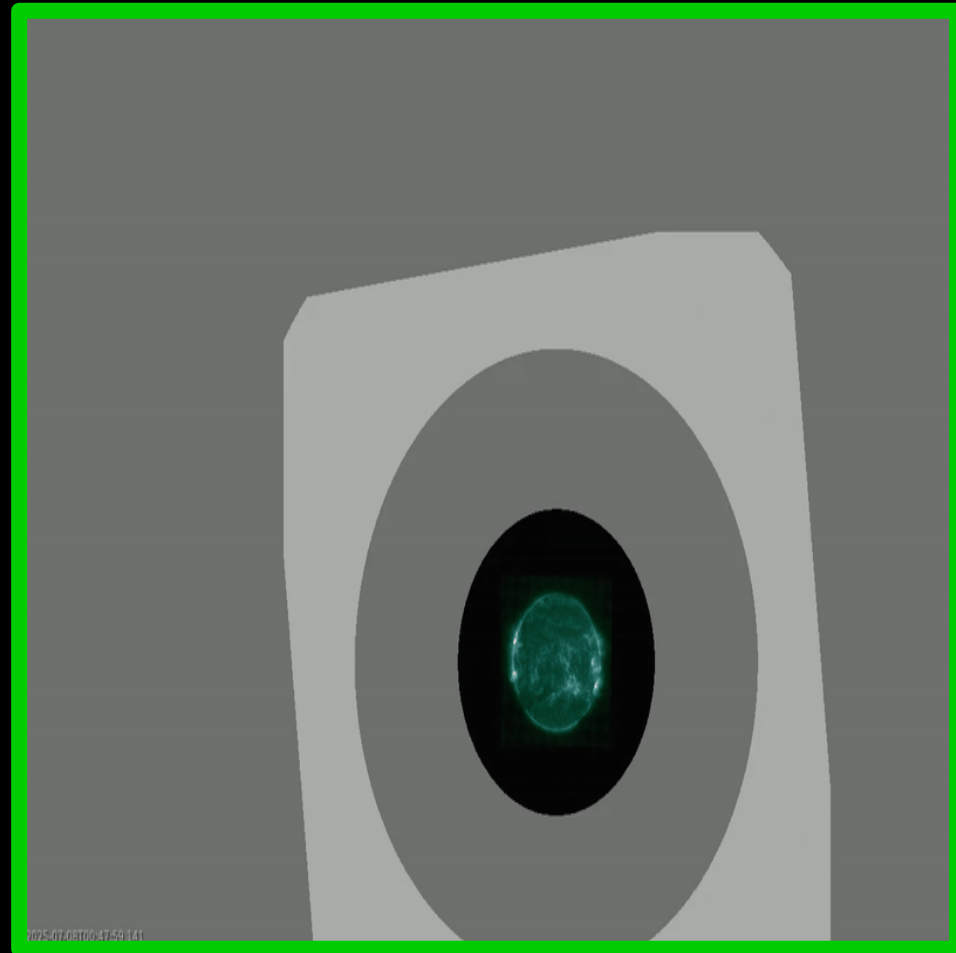
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2025-07-06	2025-07-07	2025-07-08	2025-07-09	2025-07-10	2025-07-11	2025-07-12	2025-07-13
Probability (%)	80 05 01	94 43 01	90 39 01	98 54 04	96 51 09	99 60 04	99 63 04	99 84 20
Observed (#)	02 00 00	06 01 00	01 01 00	05 00 00	11 00 00	12 02 00	12 01 00	05 00 00

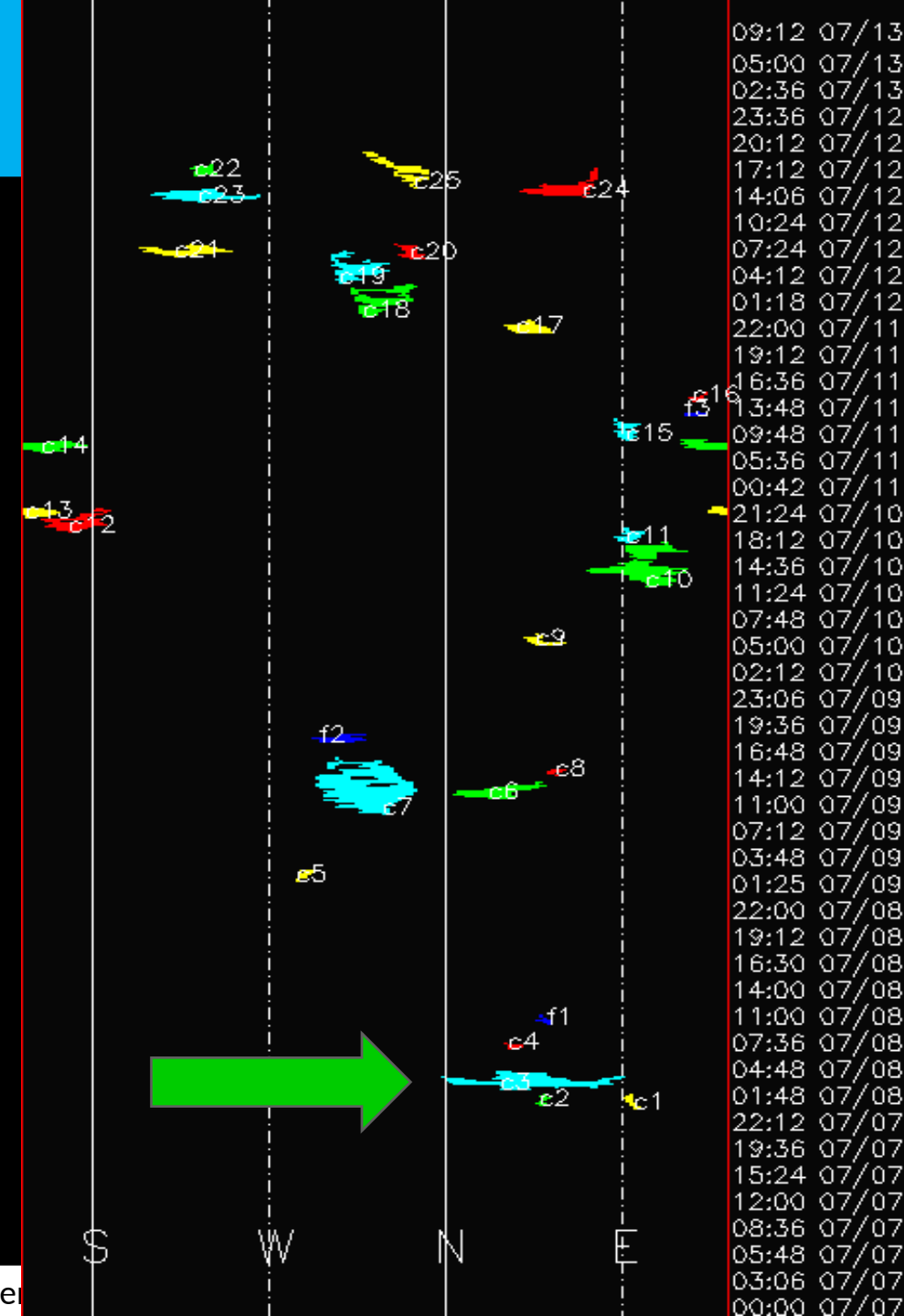
Solar X-Ray and UV flux



Coronal Mass Ejections



CME associated with M2.4 flare (SIDC Flare 4813) July 08 at 04:17 UTC
and SIDC SG 522 – Not Earth directed



Solar Wind and

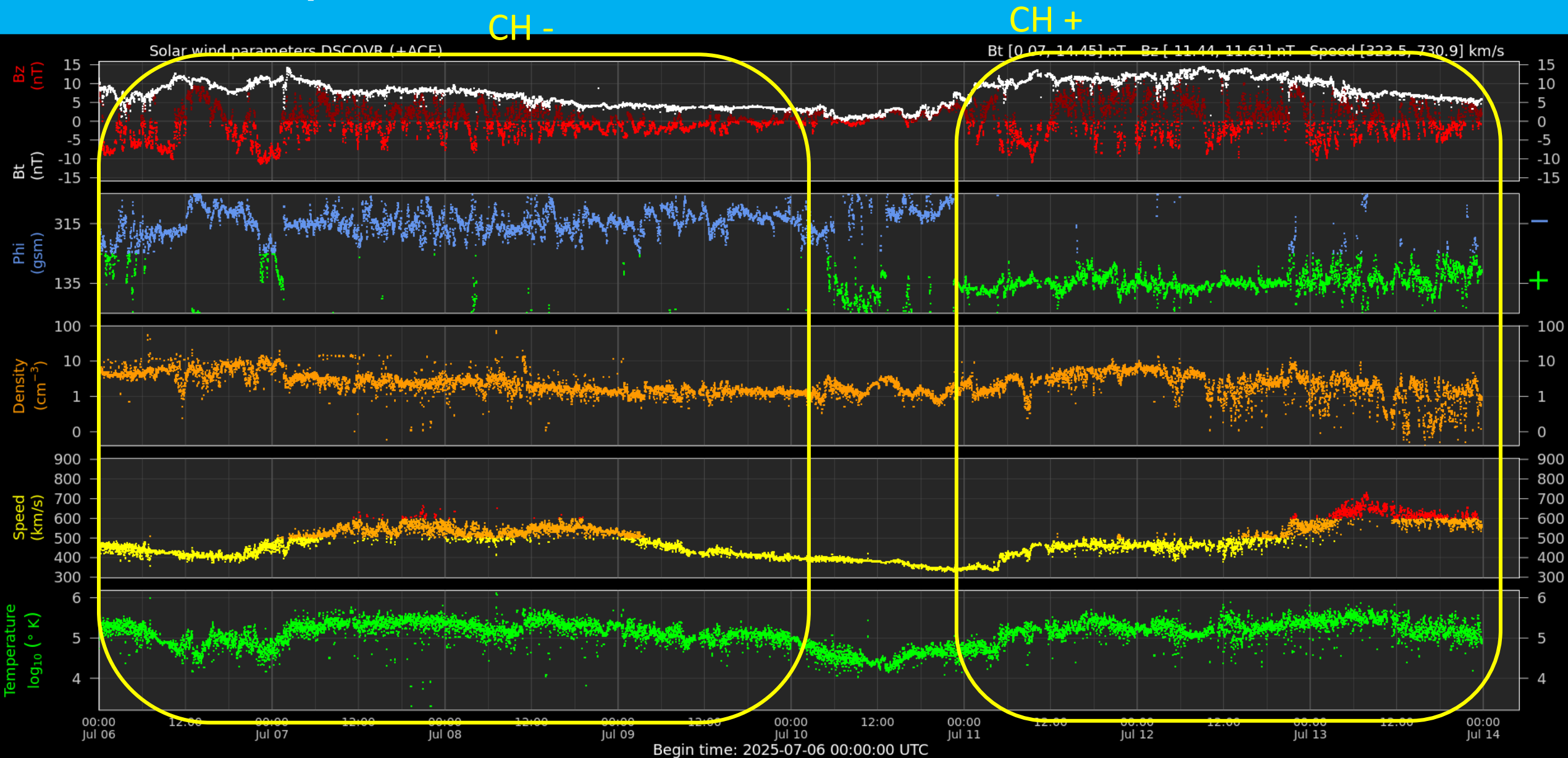
Geomagnetic Activity



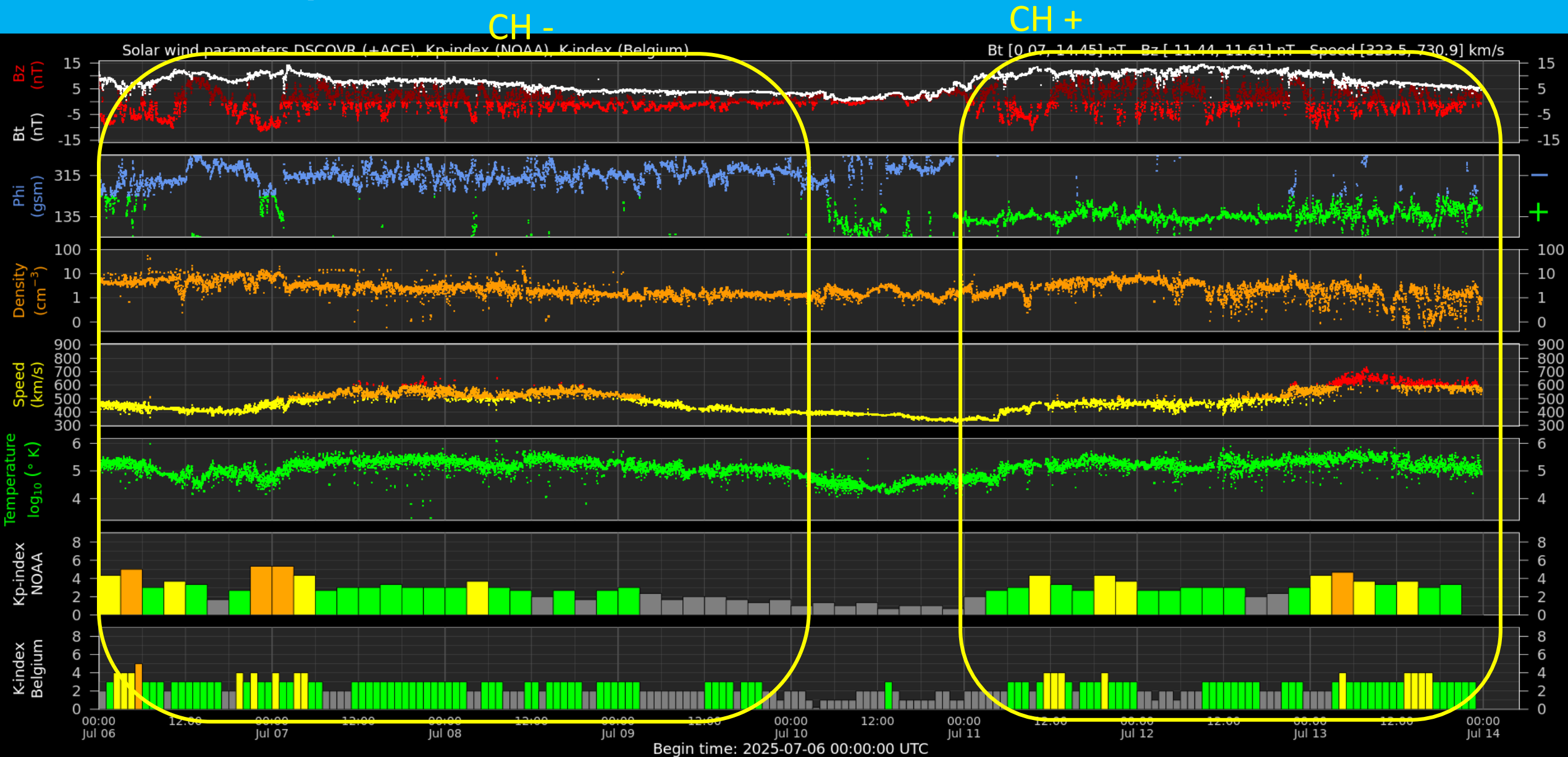
Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

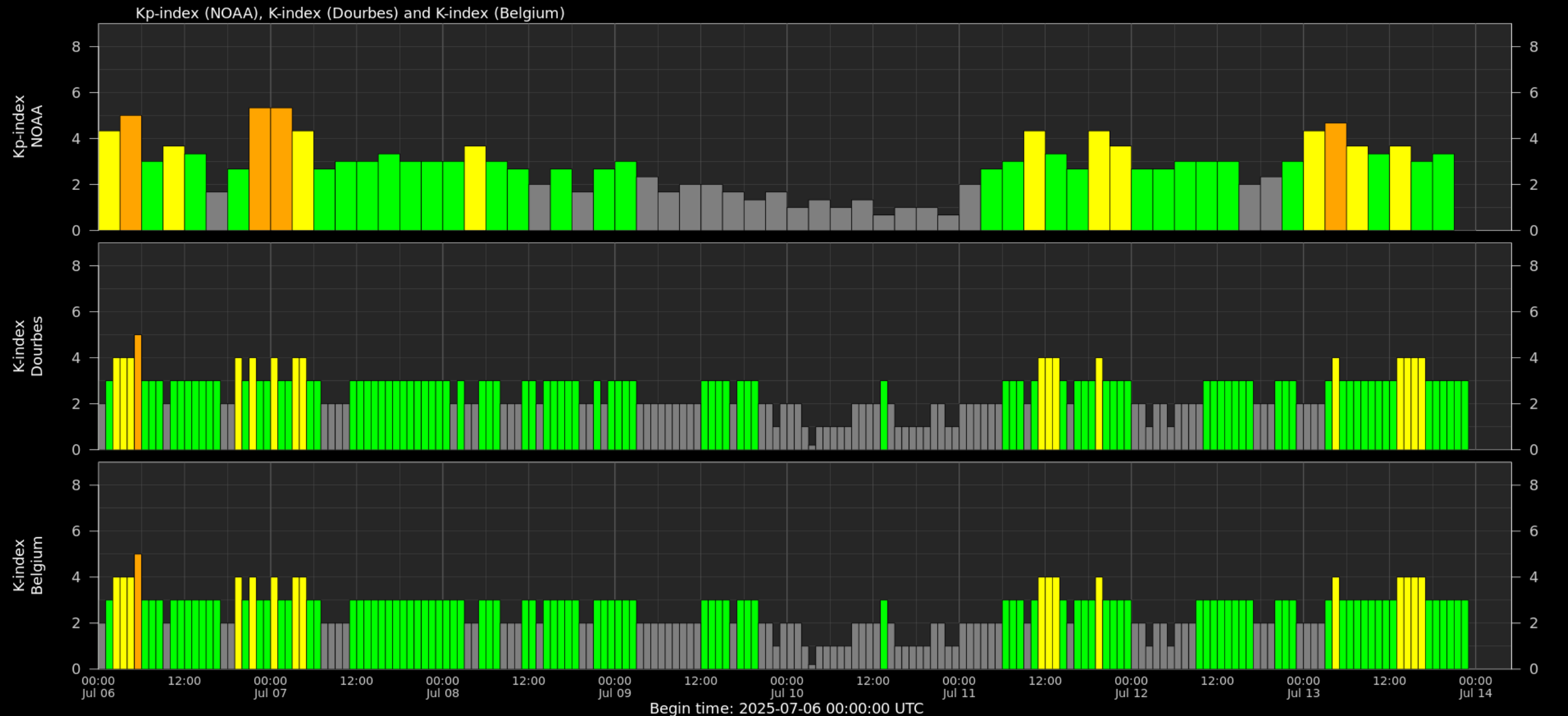
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



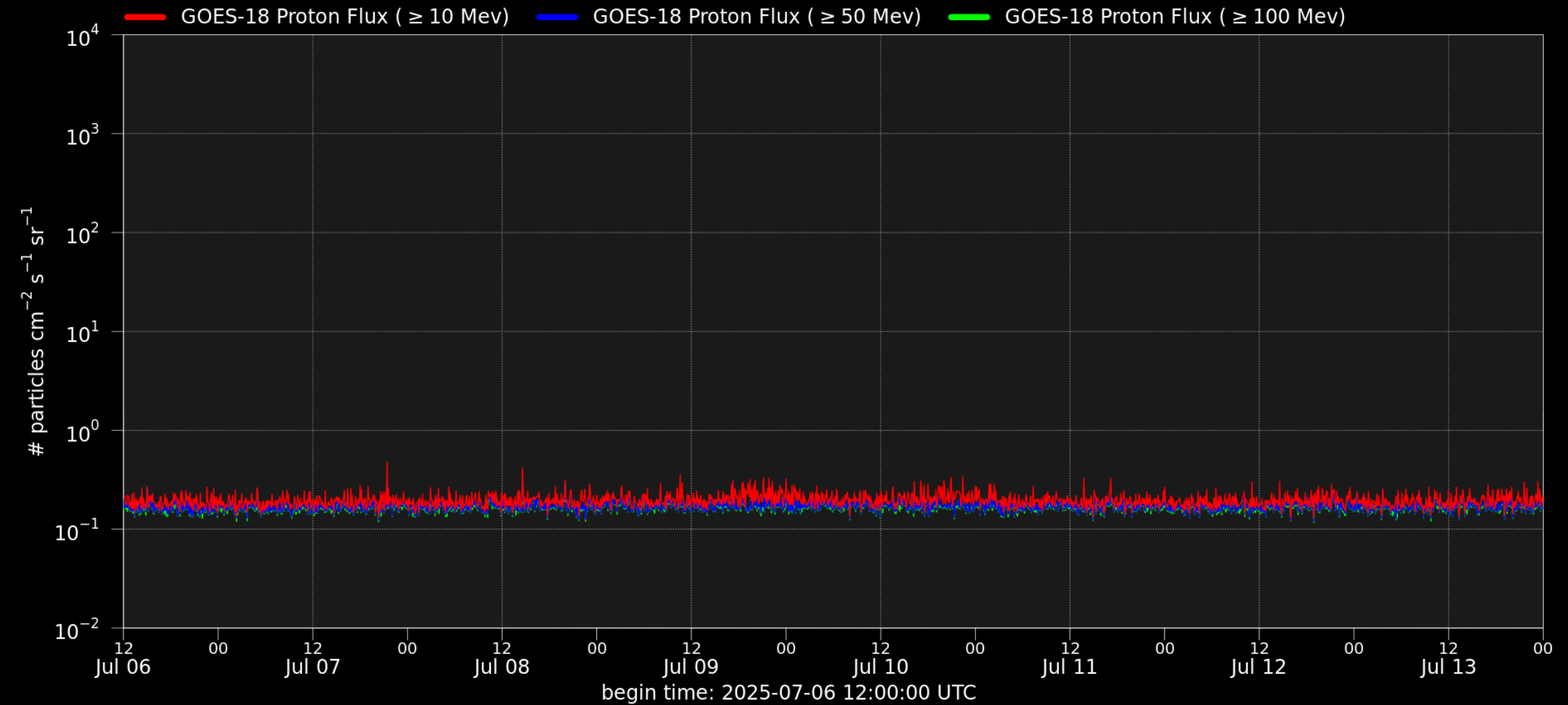
Energetic Particles



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

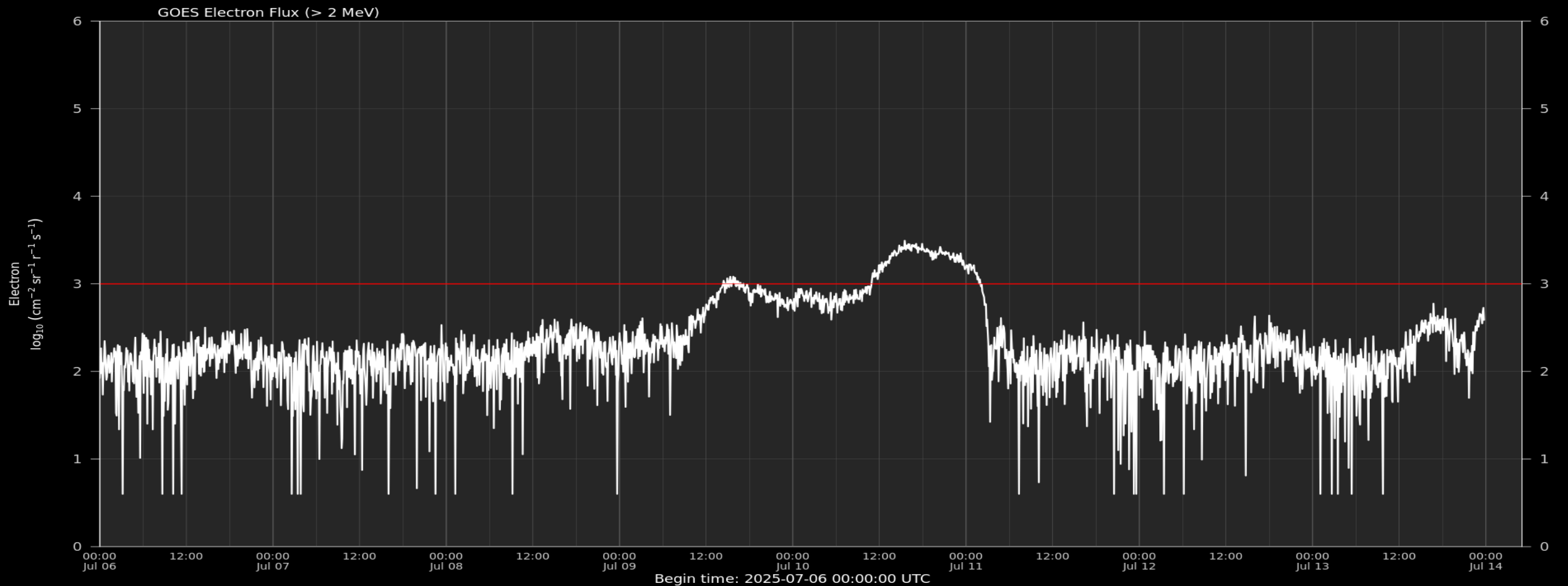
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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



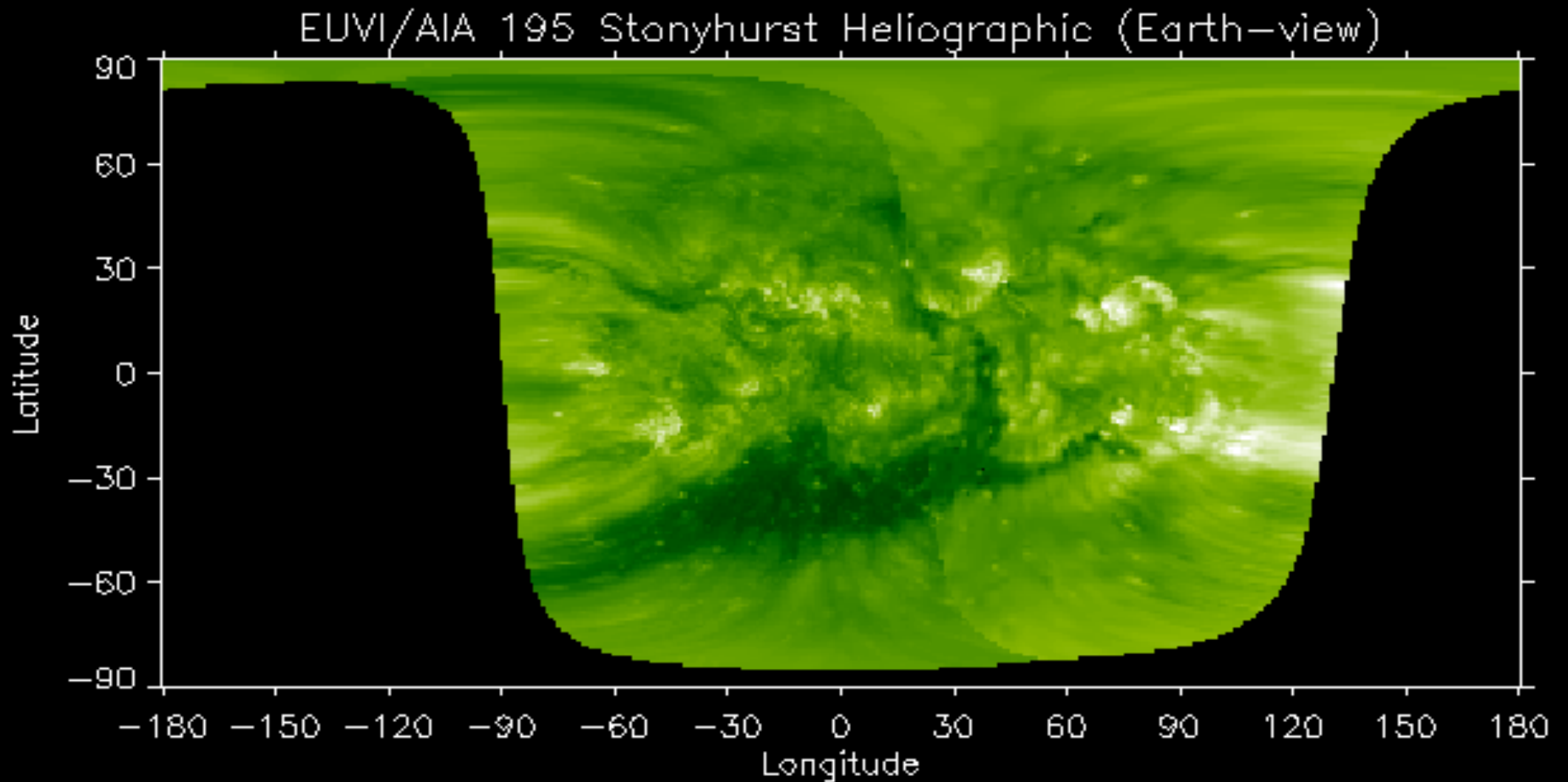
Outlook



Royal Observatory
of Belgium

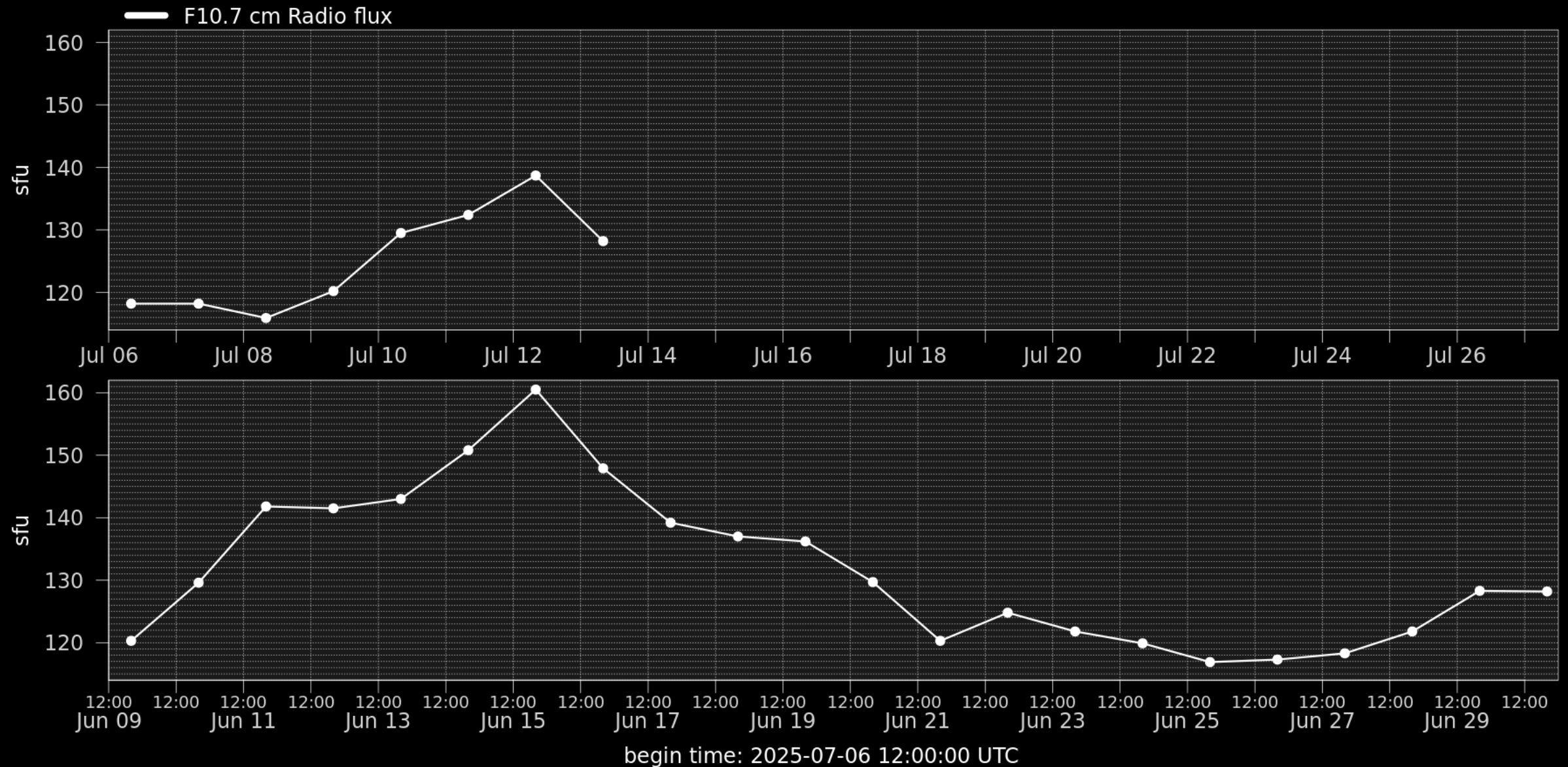
Solar Influences
Data analysis Centre
www.sidc.be

Outlook: Solar activity

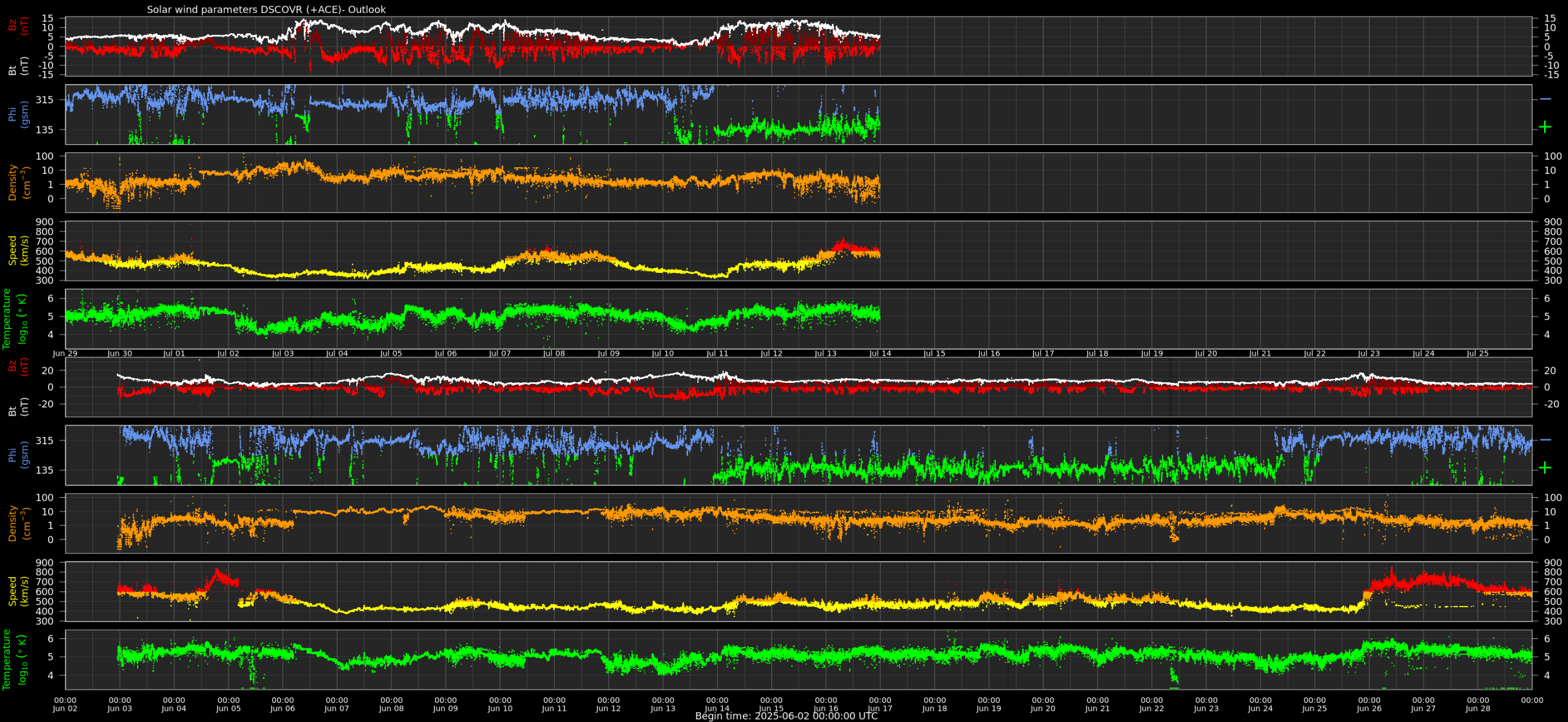


Observation date: 2025/07/13 23:05:00

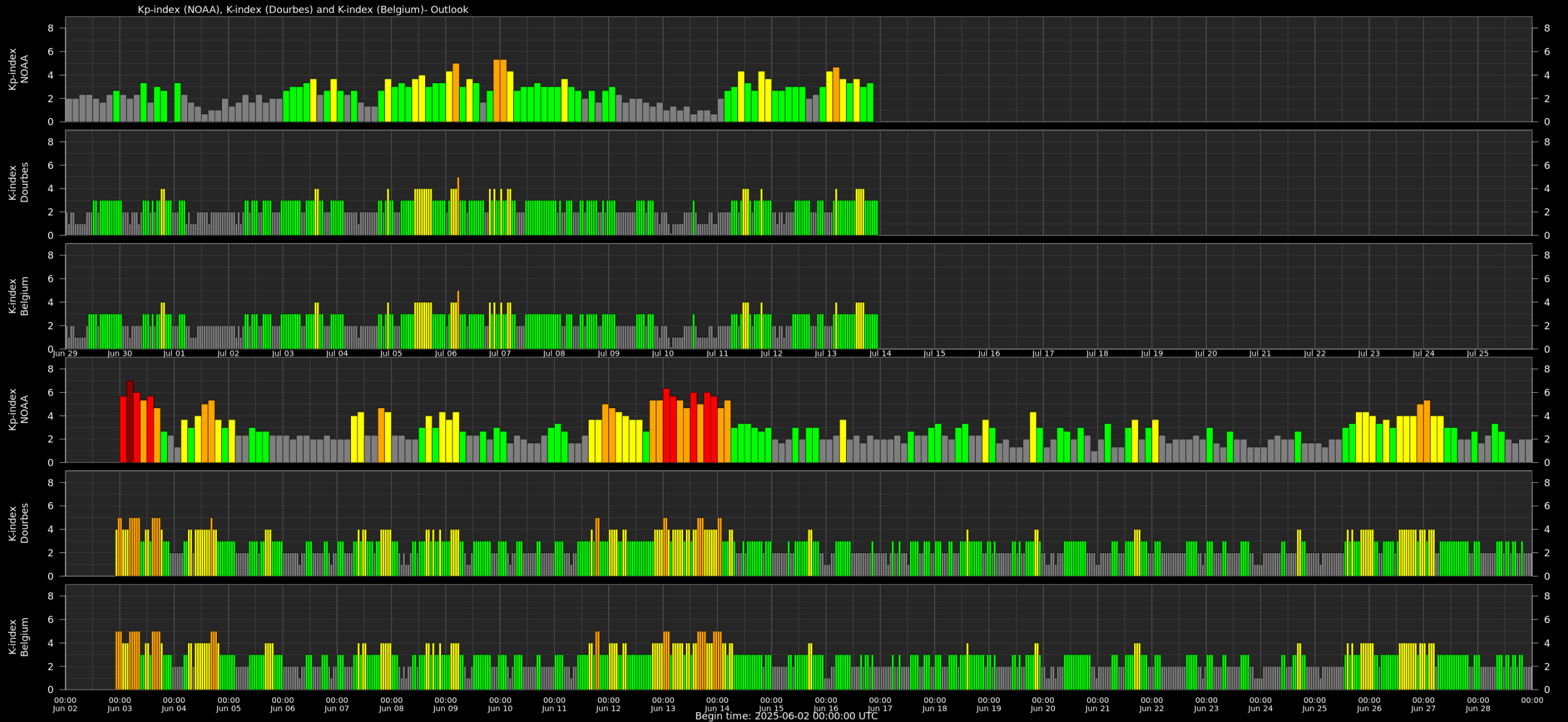
Outlook: Solar F10.7cm radio flux



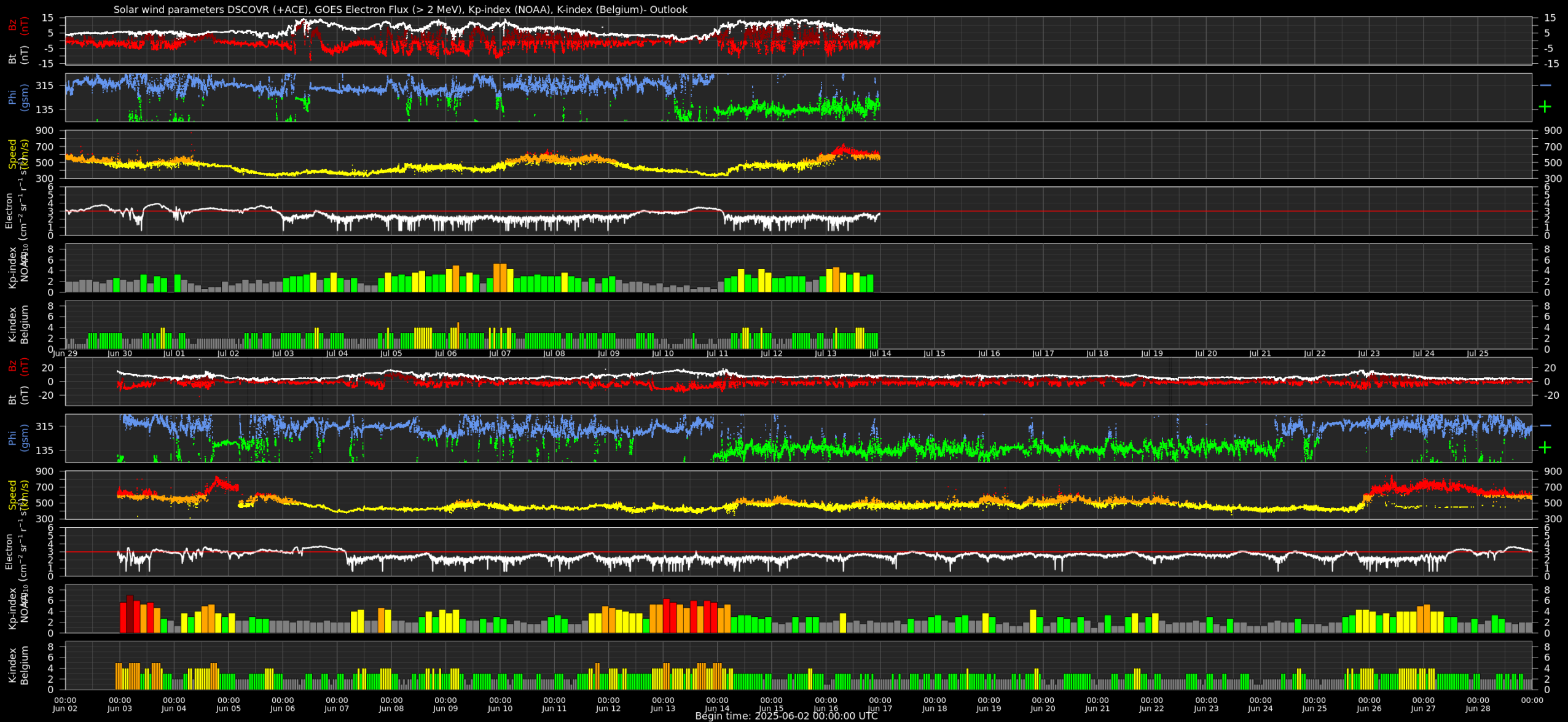
Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Pecaus related events

No Pecaus advisories were issued throughout the 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