

# SIDC Space Weather Briefing

11 May 2026-17 May 2026

Micera Alfredo

& 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 2026-05-11 00:00 to 2026-05-17 23:59

Active regions	12 numbered regions over the week, most active were SIDC Sunspot Group 860 (NOAA AR 4432), SIDC Group 825 (NOAA AR 4436) and SIDC Sunspot Group 844 (NOAA AR 4435)
Flares	# C-class flare: 43 # M-class flare: 4 # X-class flare: 0
Coronal Holes	SIDC CH 159 (+), SIDC CH 147 (-)
CMEs	2 CMEs with possible Earth directed components observed
Proton flux	Below 10 pfu threshold
Electron flux	Normal to moderate

## Solar wind and geomagnetic conditions

ICMEs	ICME signatures on May 13 - 14
Solar wind conditions	B : 0.73 - 17.27 nT //Bz: -14.05 nT to 13.31 nT //Speed: 312.4 - 717.4km/s
Geomagnetic conditions	max K <sub>Be</sub> : 5.0, max K <sub>p</sub> (NOAA): 6 +, Moderate Storm conditions

All Quiet Alert: Off/Not Quiet

# Solar Activity

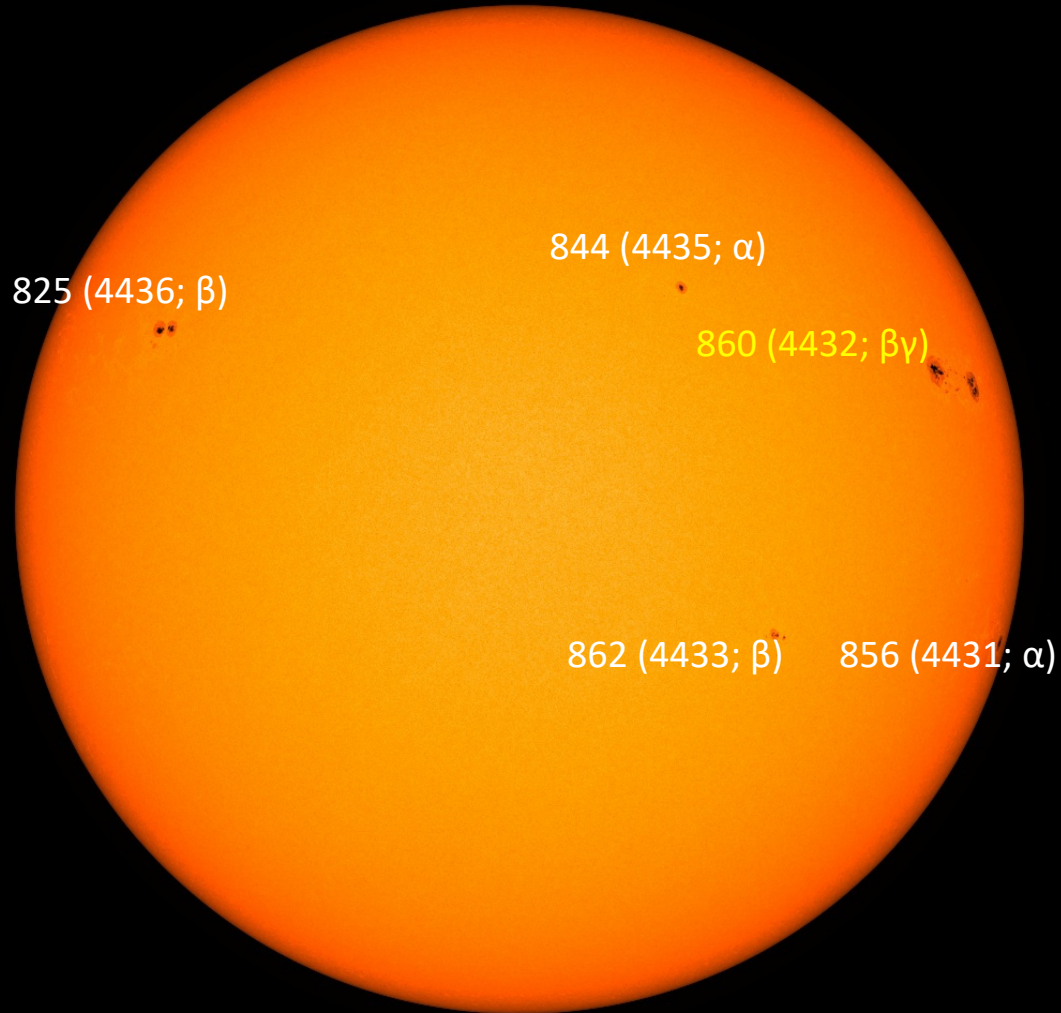


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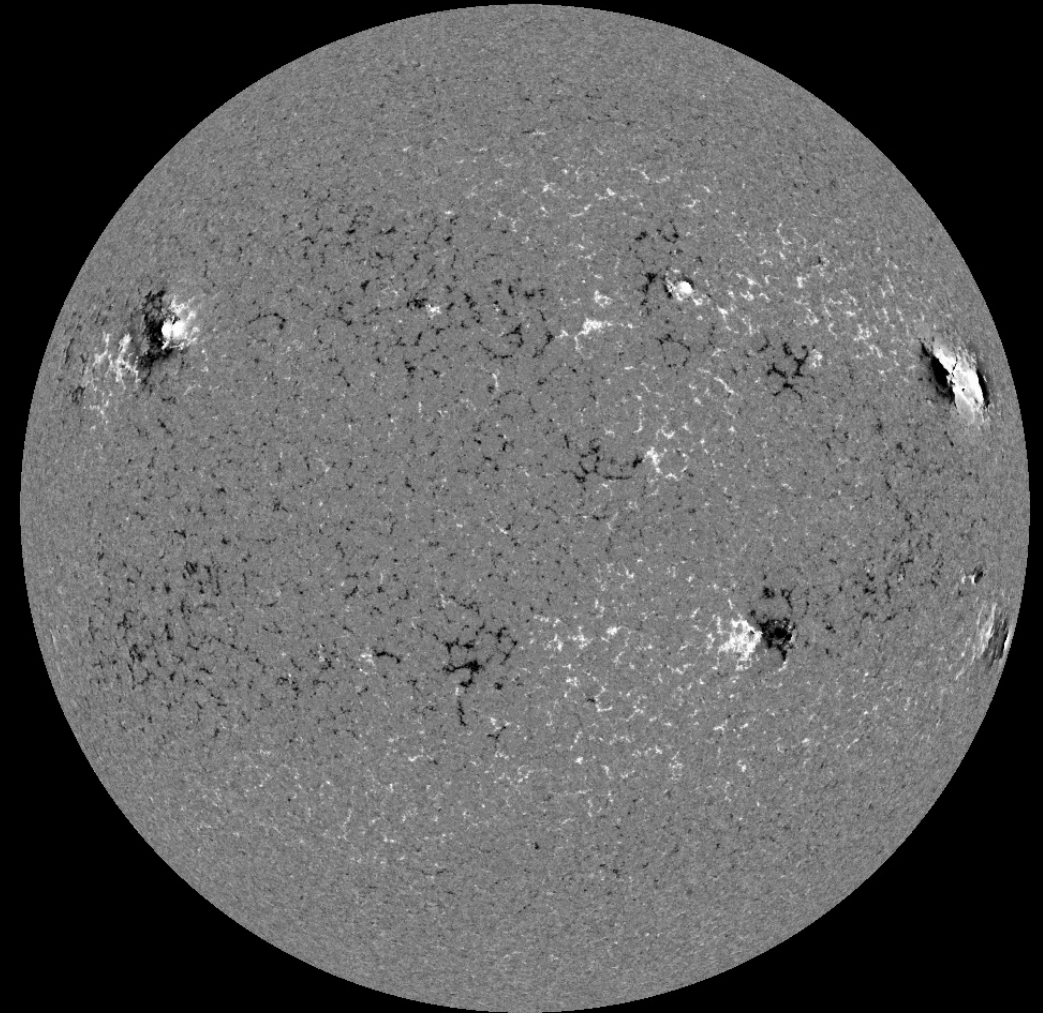
# Solar active regions

SDO/HMI White Light 2026-05-11



SDO/HMI Continuum: 20260511\_120000

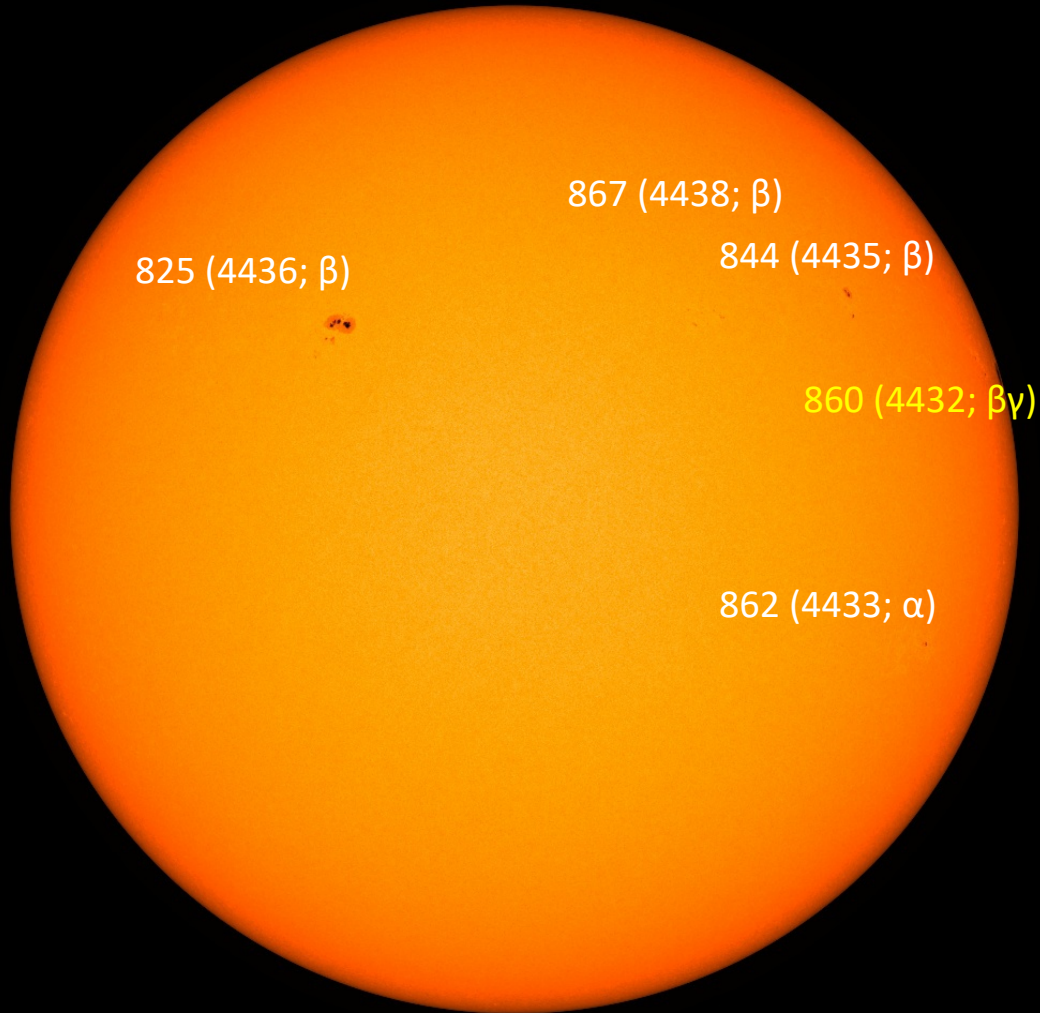
SDO/HMI Magnetogram 2026-05-11



SDO/HMI Magnetogram: 20260511\_120000

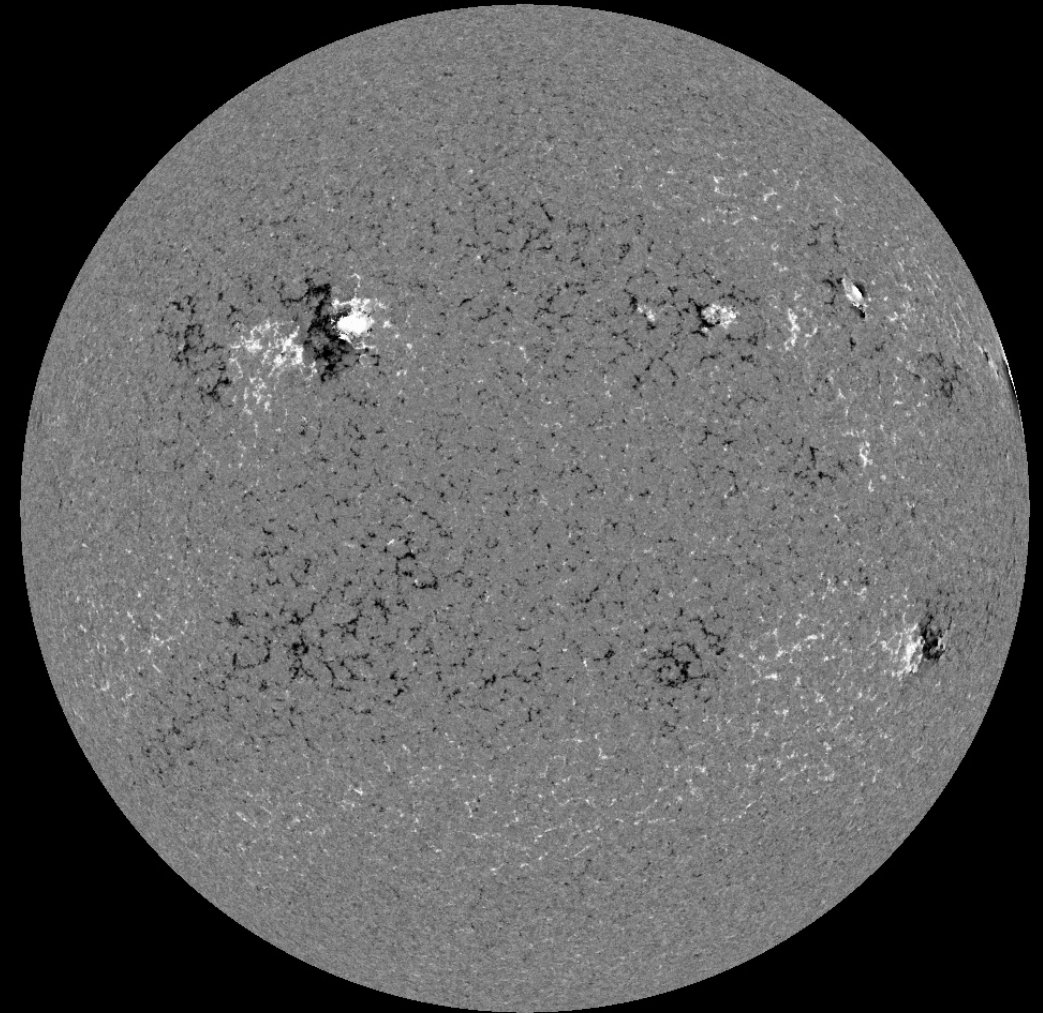
# Solar active regions

SDO/HMI White Light 2026-05-13



SDO/HMI Continuum: 20260513\_120000

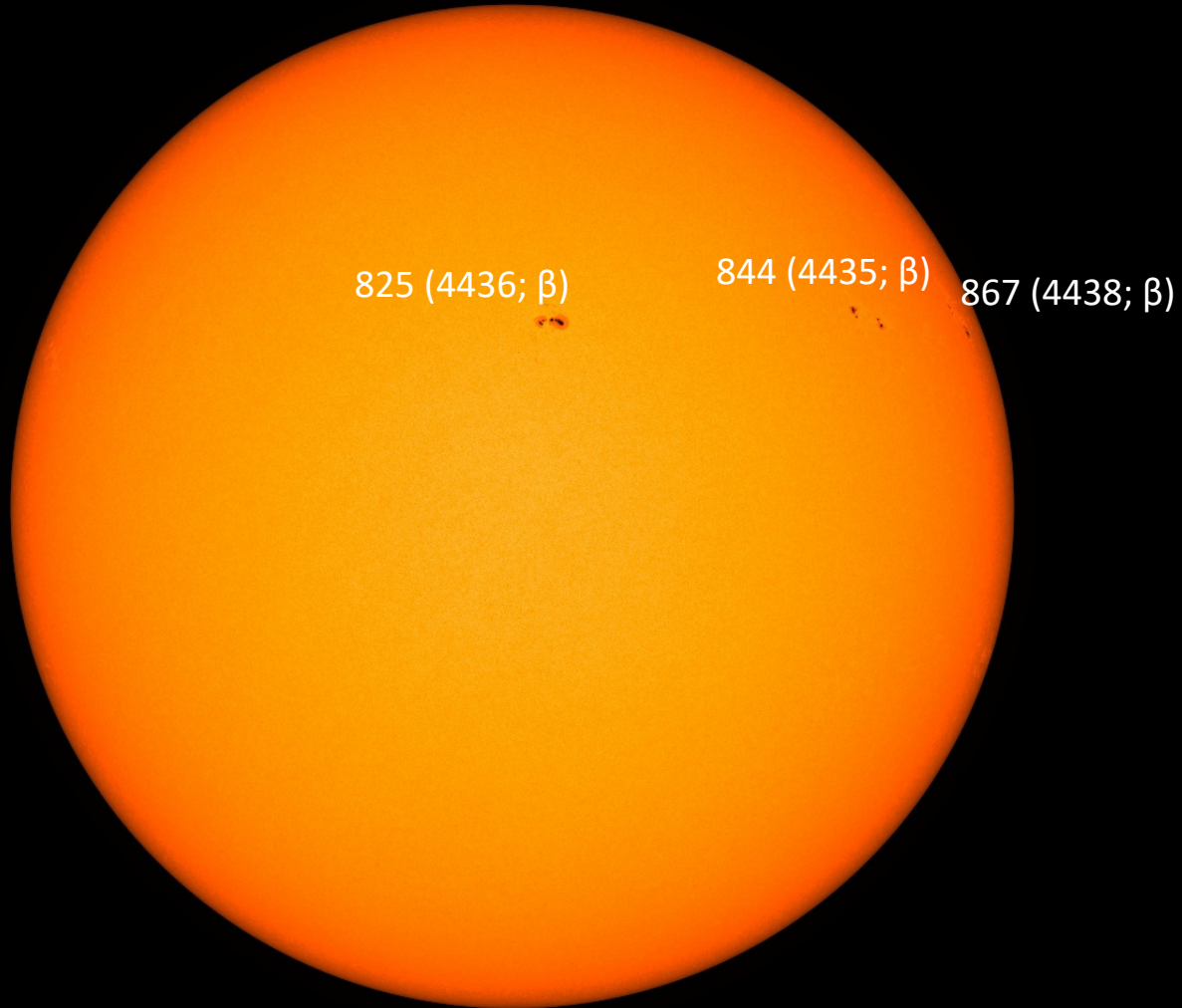
SDO/HMI Magnetogram 2026-05-13



SDO/HMI Magnetogram: 20260513\_120000

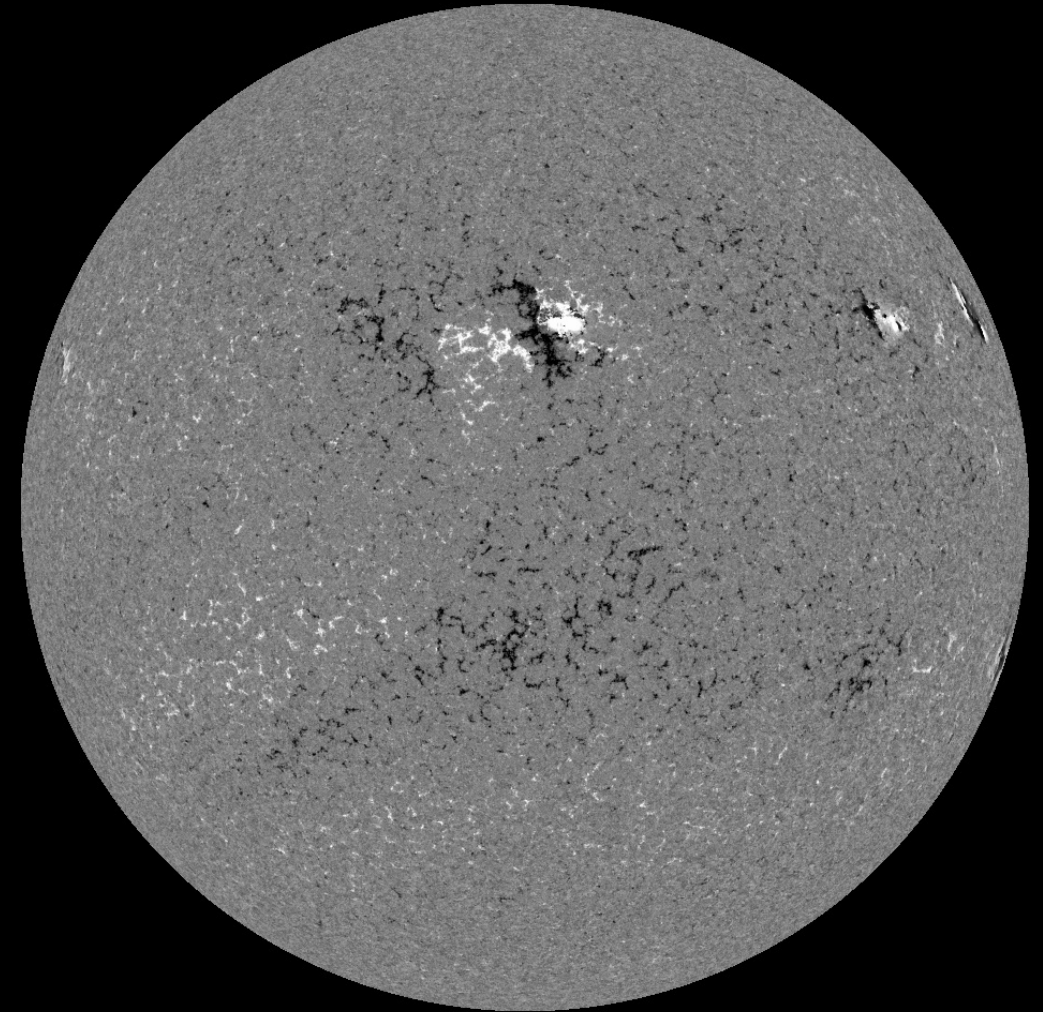
# Solar active regions

SDO/HMI White Light 2026-05-15



SDO/HMI Quick-Look Continuum: 20260515\_120000

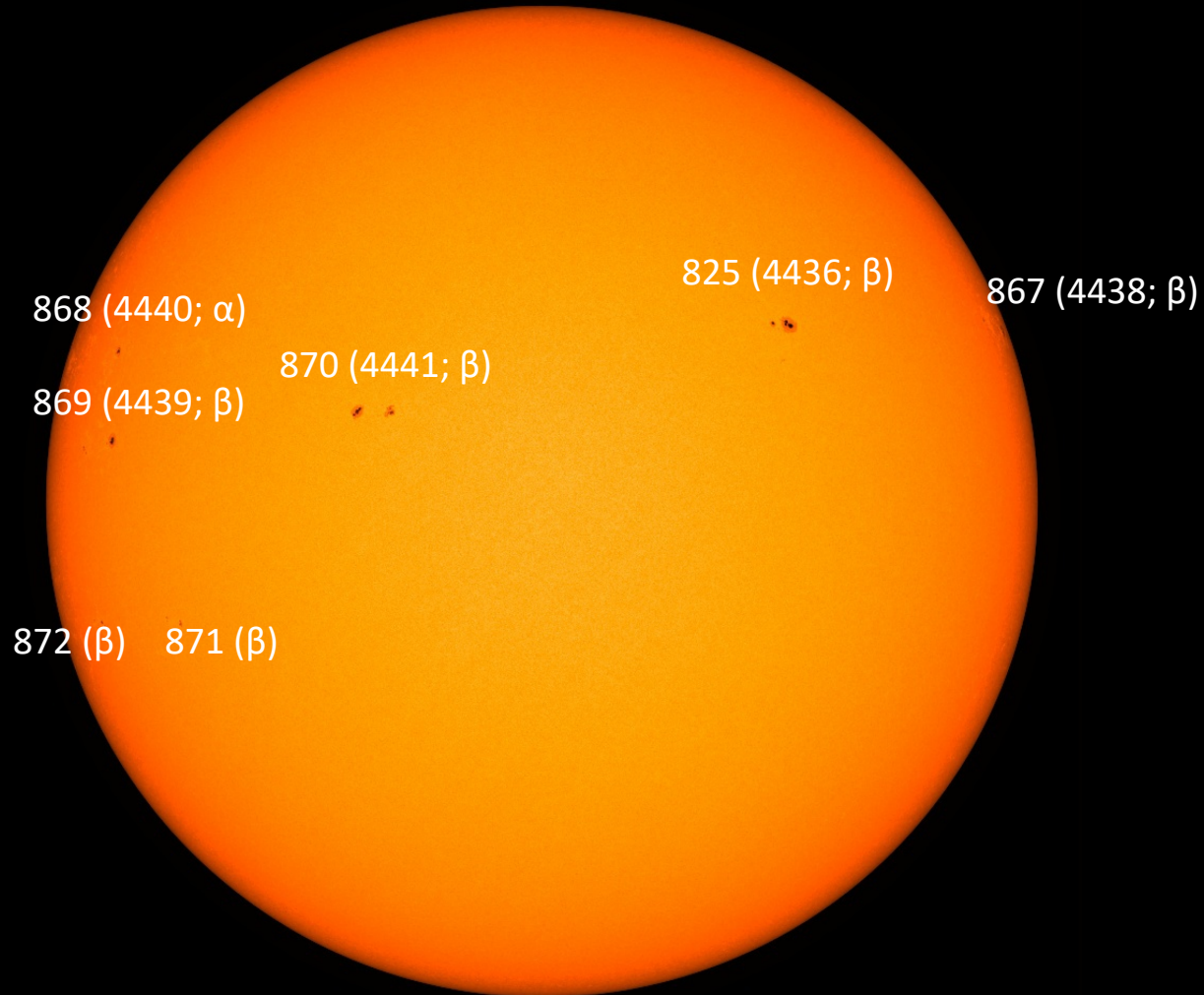
SDO/HMI Magnetogram 2026-05-15



SDO/HMI Quick-Look Magnetogram: 20260515\_120000

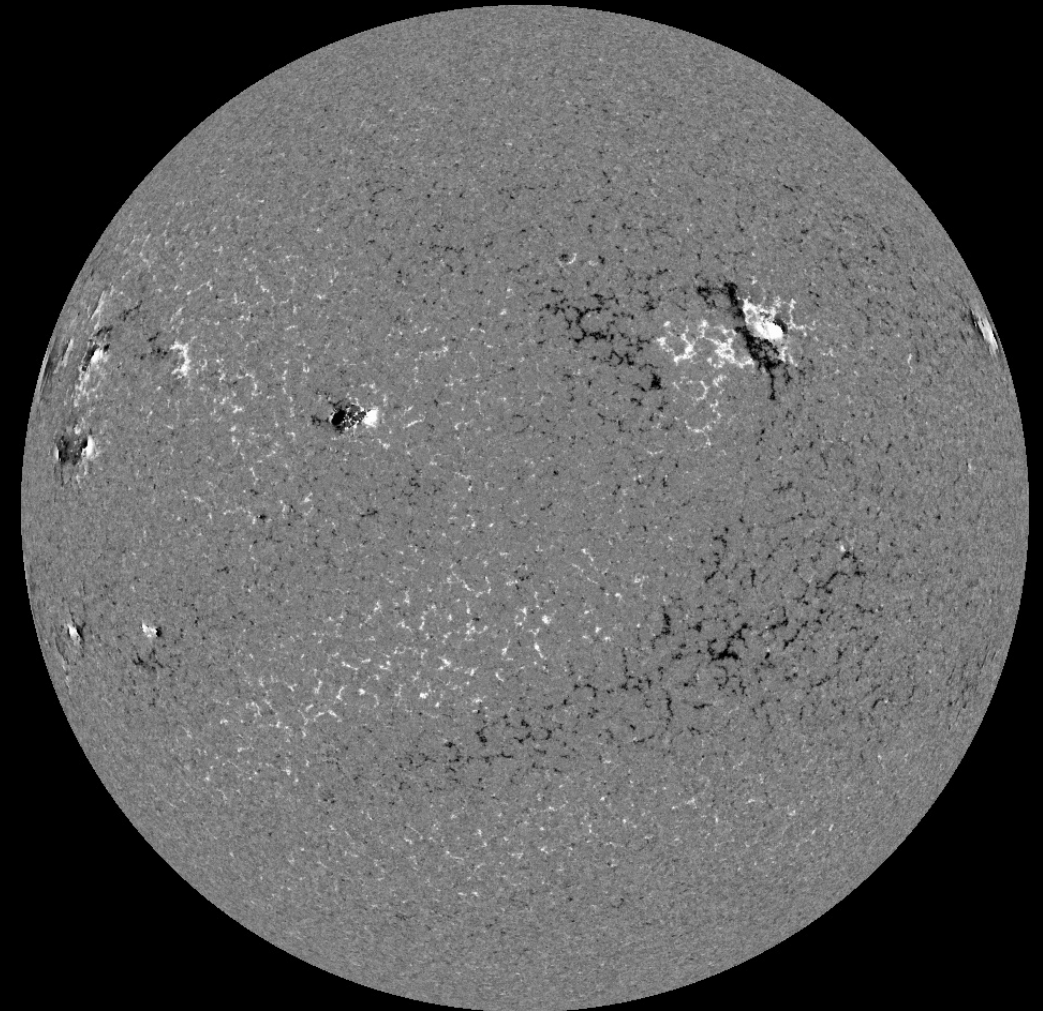
# Solar active regions

SDO/HMI White Light 2026-05-17



SDO/HMI Quick-Look Continuum: 20260517\_120000

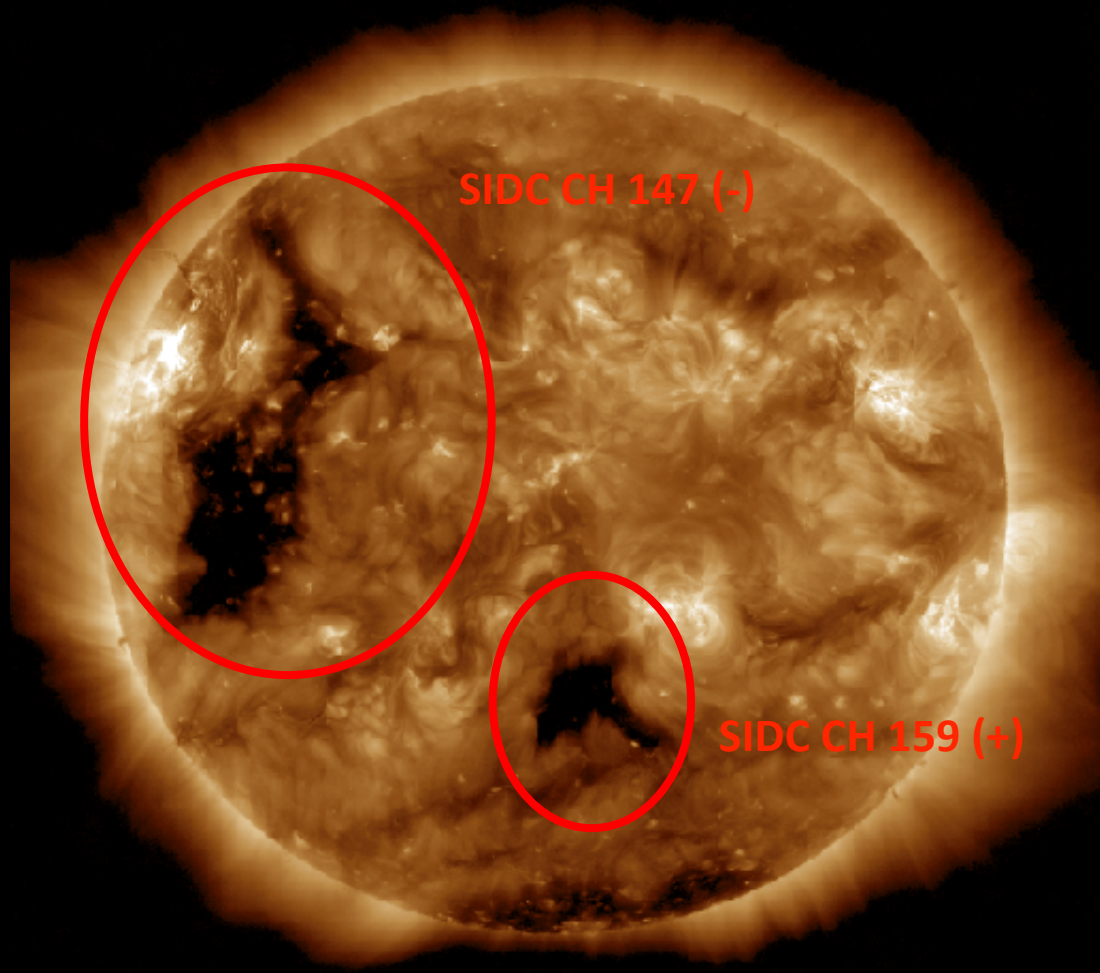
SDO/HMI Magnetogram 2026-05-17



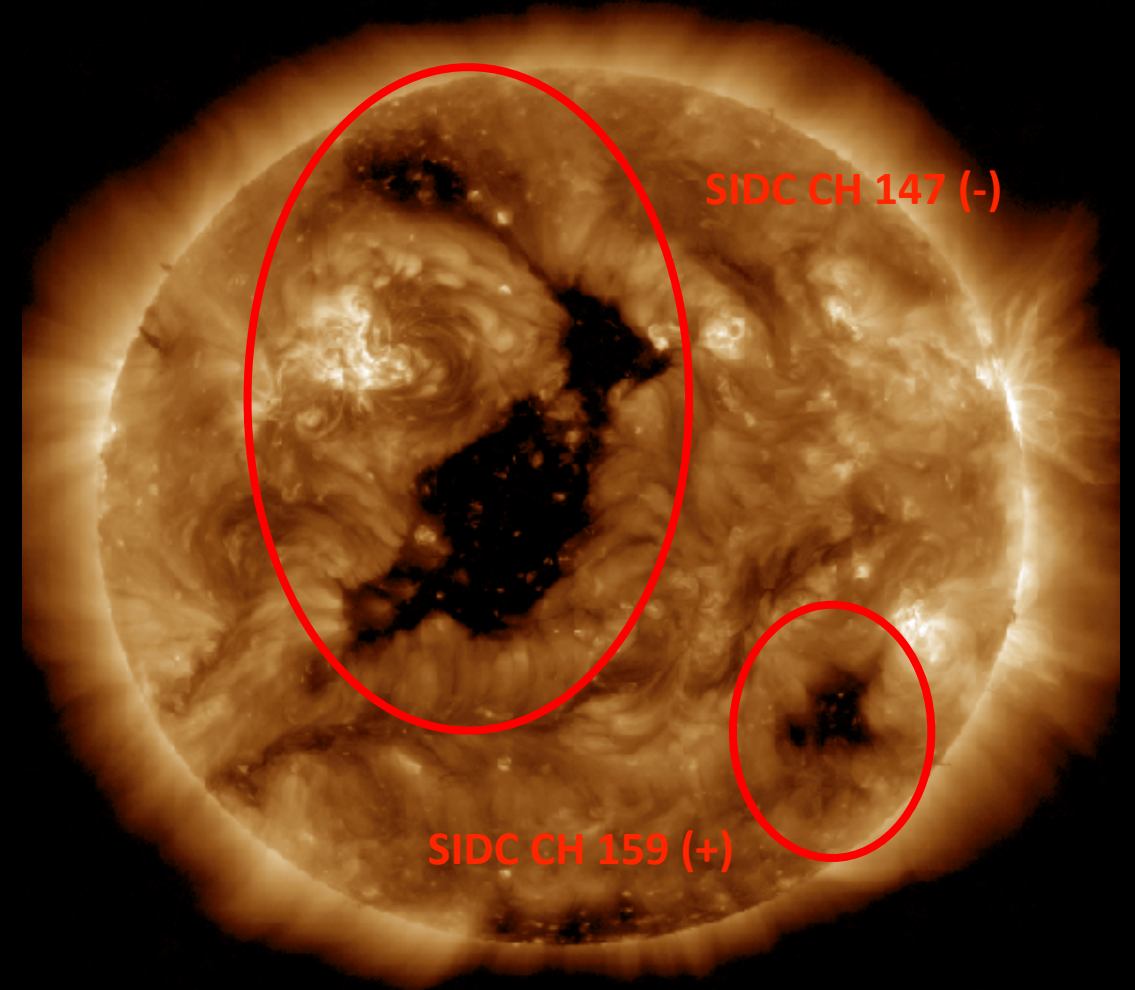
SDO/HMI Quick-Look Magnetogram: 20260517\_120000

# Coronal holes

SDO/AIA 19.3 nm 2026-05-11

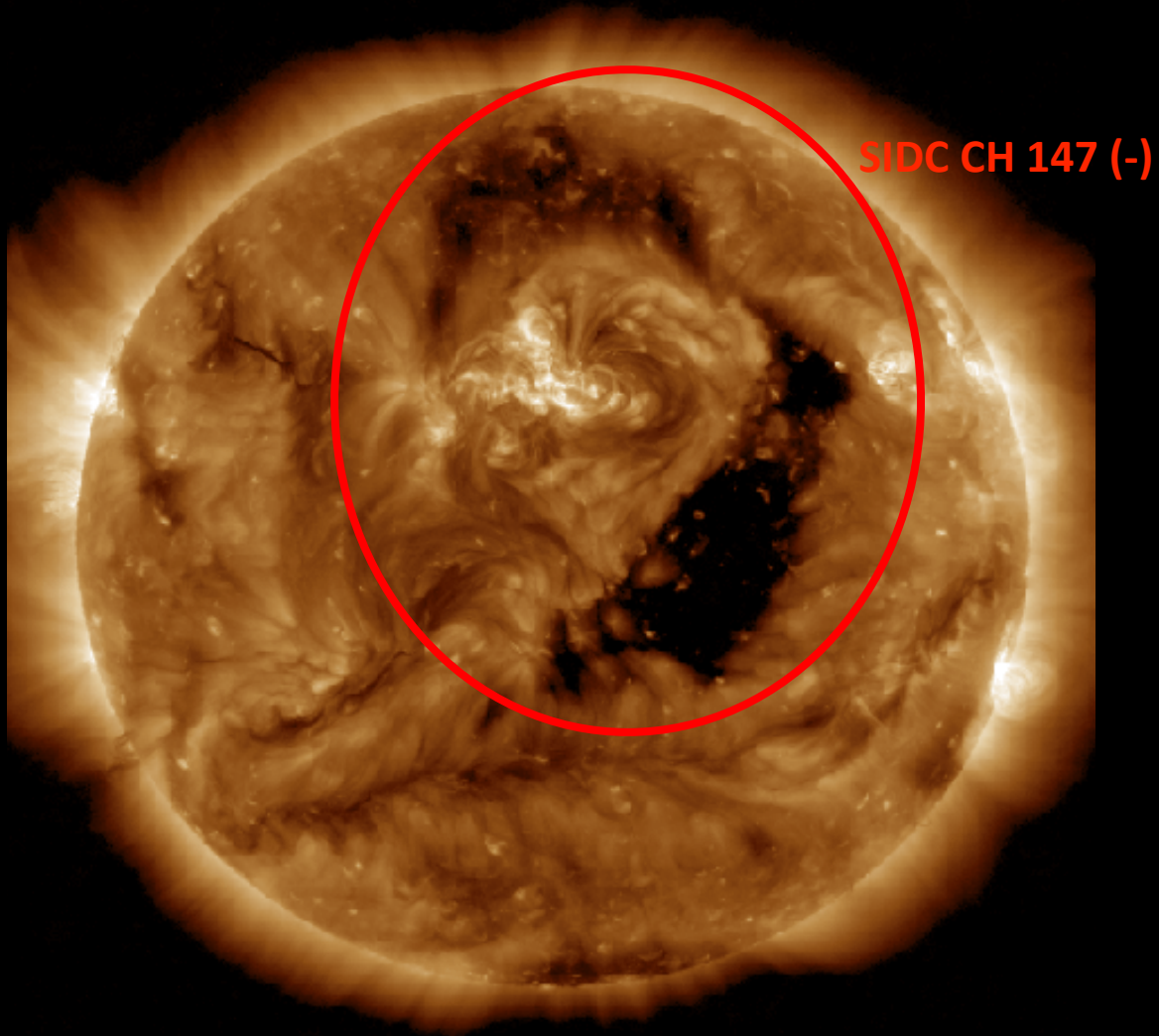


SDO/AIA 19.3 nm 2026-05-13

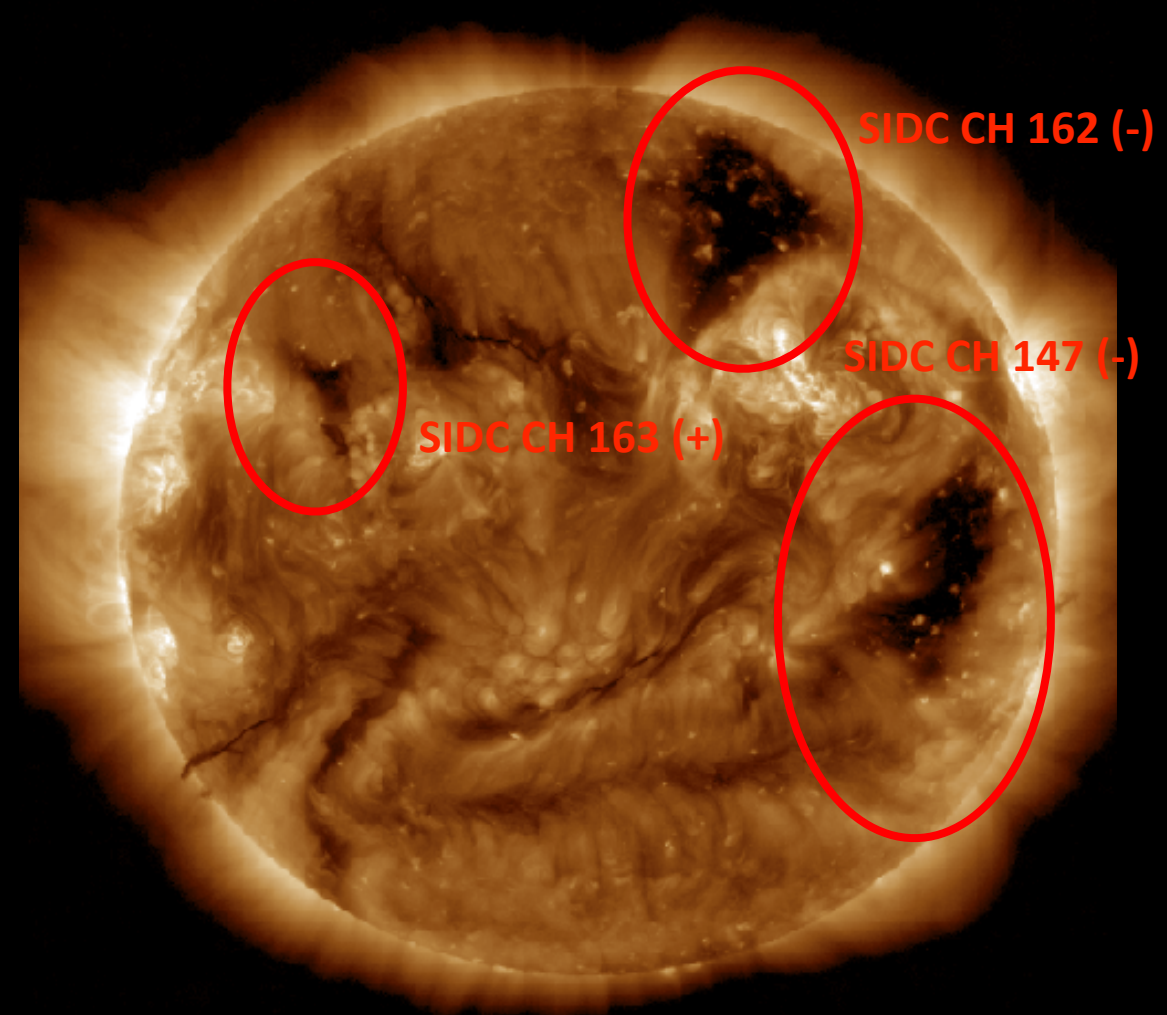


# Coronal holes

SDO/AIA 19.3 nm 2026-05-15

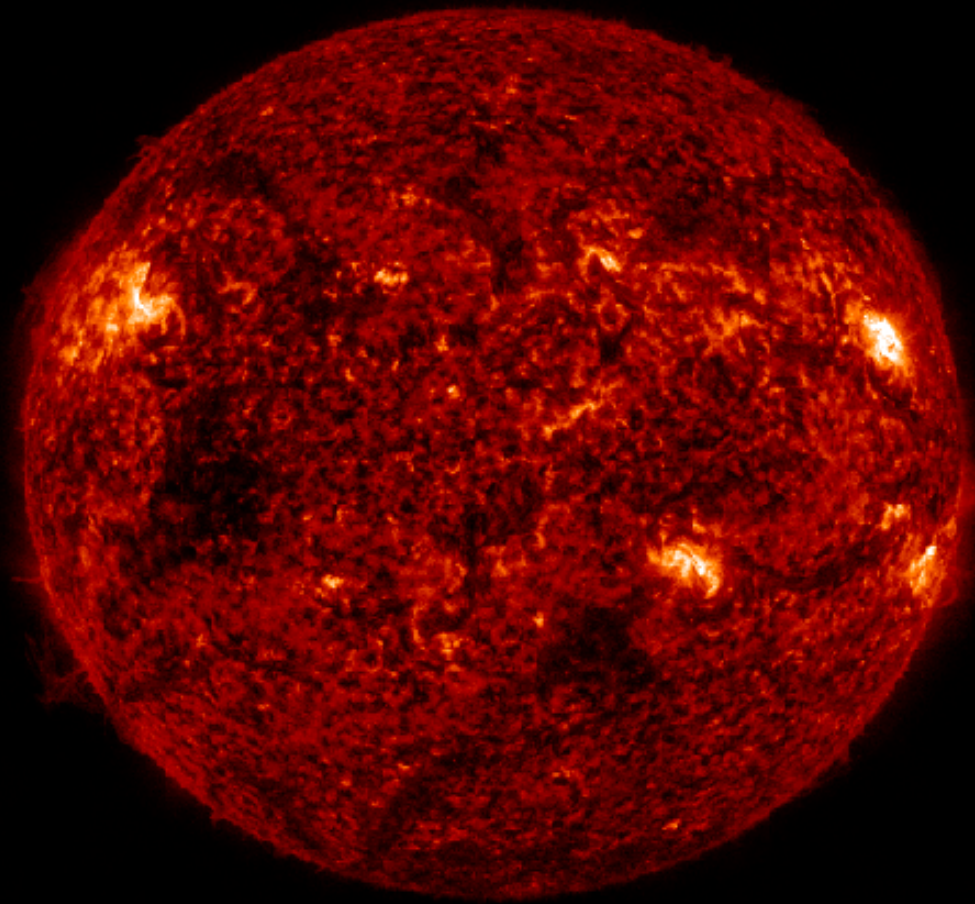


SDO/AIA 19.3 nm 2026-05-17

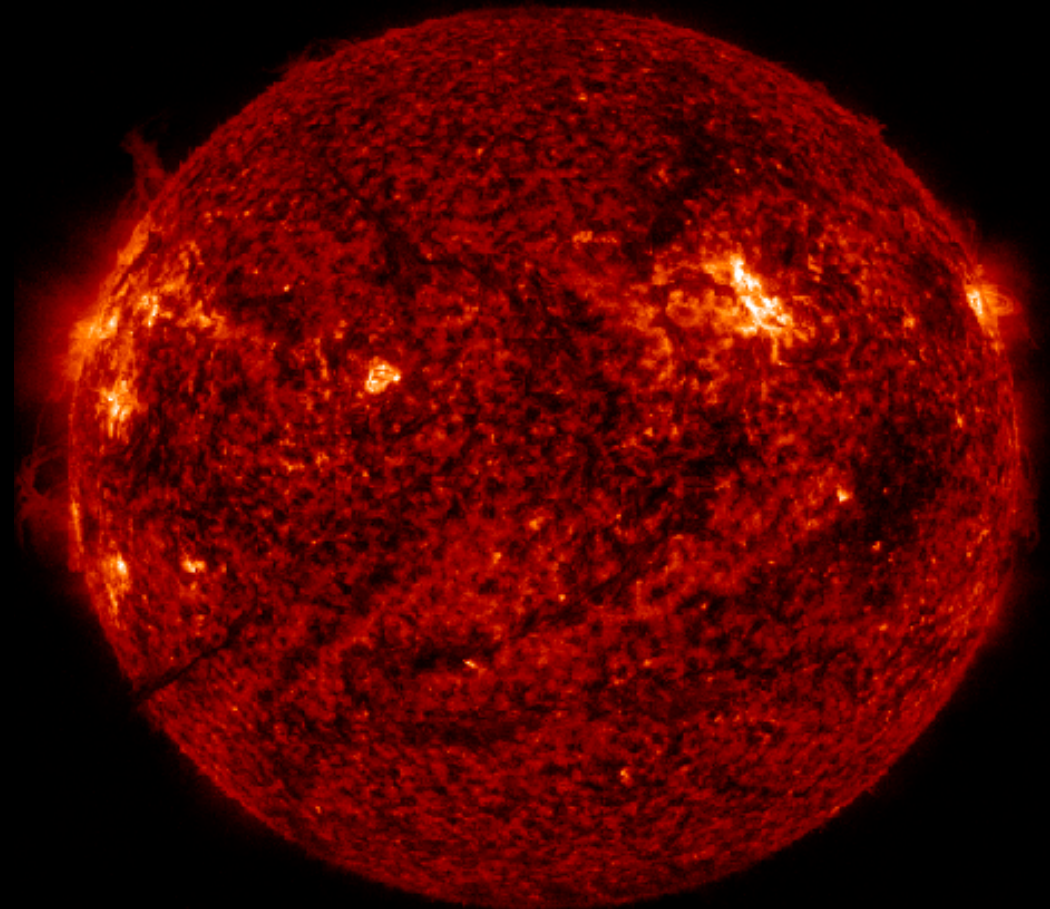


# Filaments

SDO/AIA 30.4 nm 2026-05-11



SDO/AIA 30.4 nm 2026-05-17



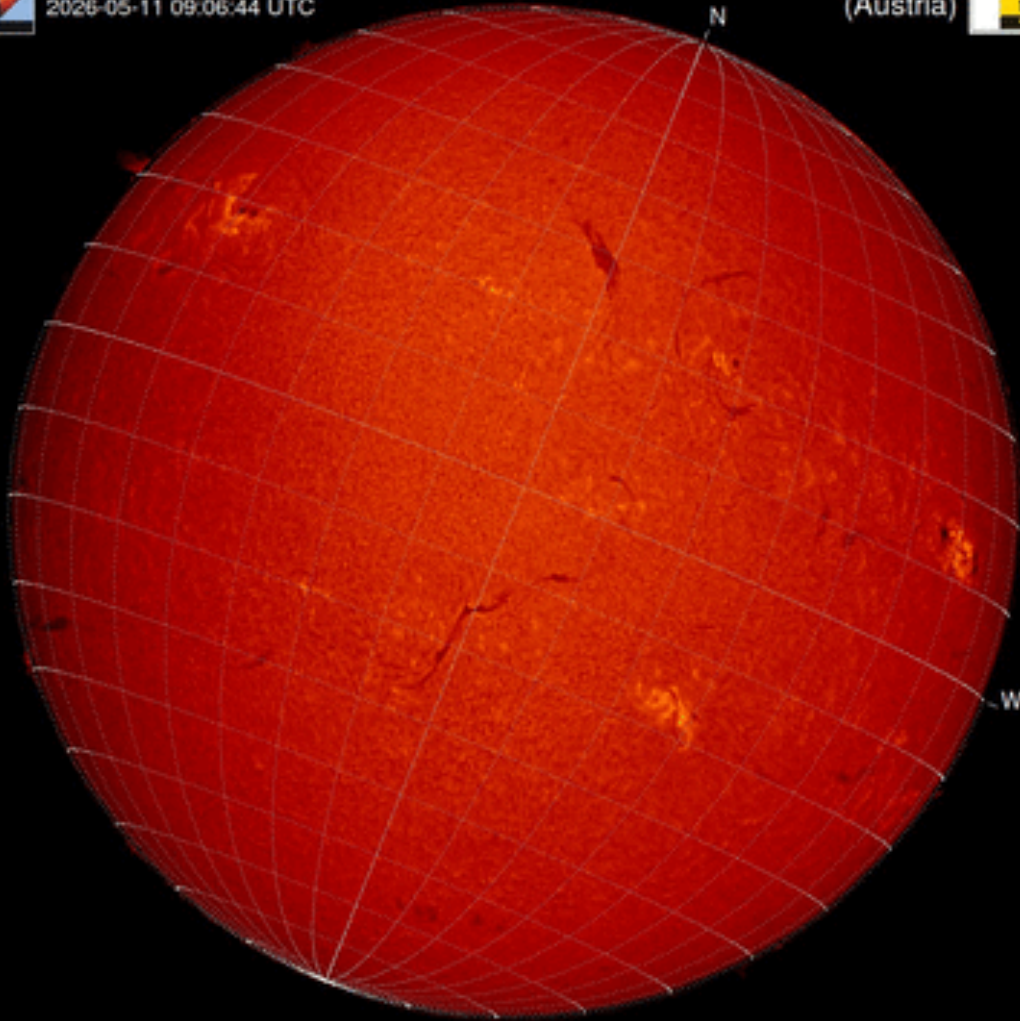
# Filaments & Filament eruptions

H-alpha 2026-05-11



Kanzelhöhe Observatory  
2026-05-11 09:06:44 UTC

University of Graz  
(Austria)

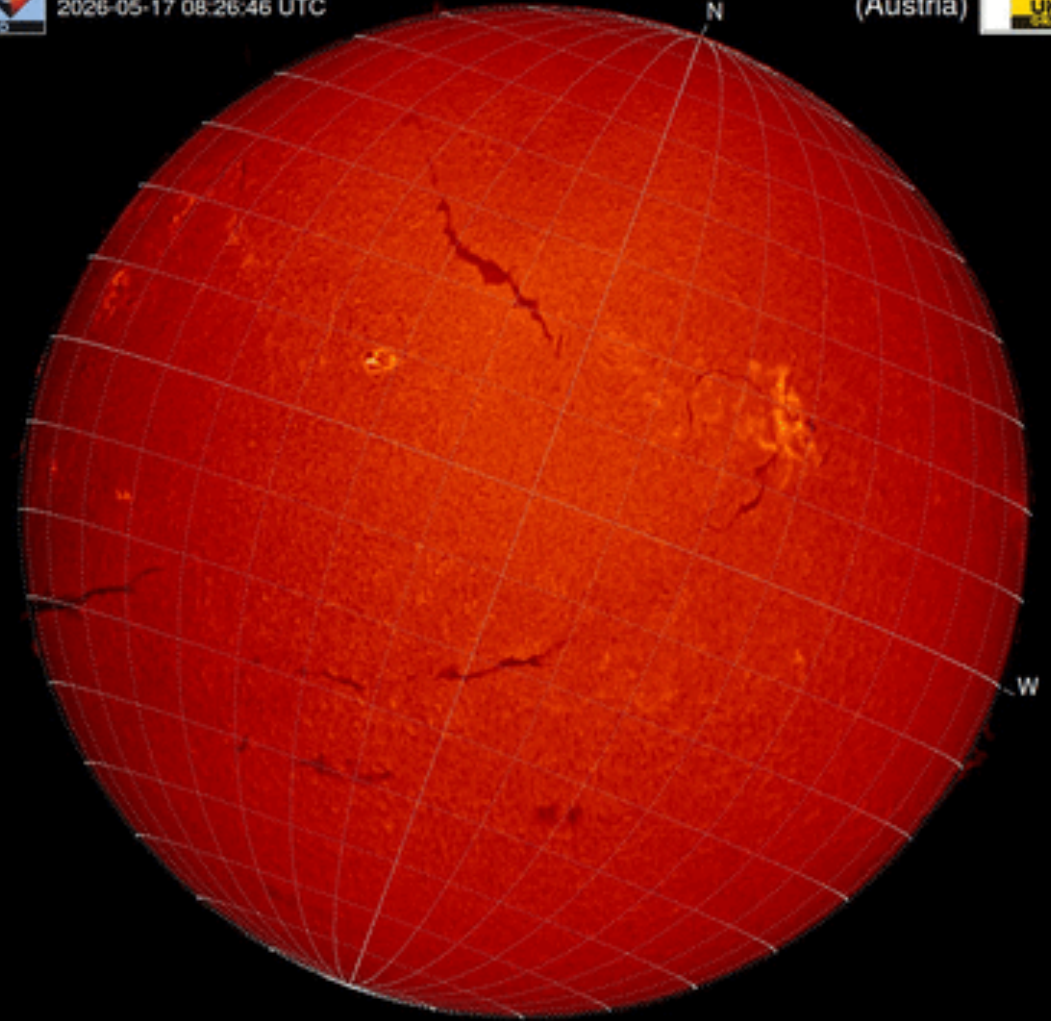


H-alpha 2026-05-17

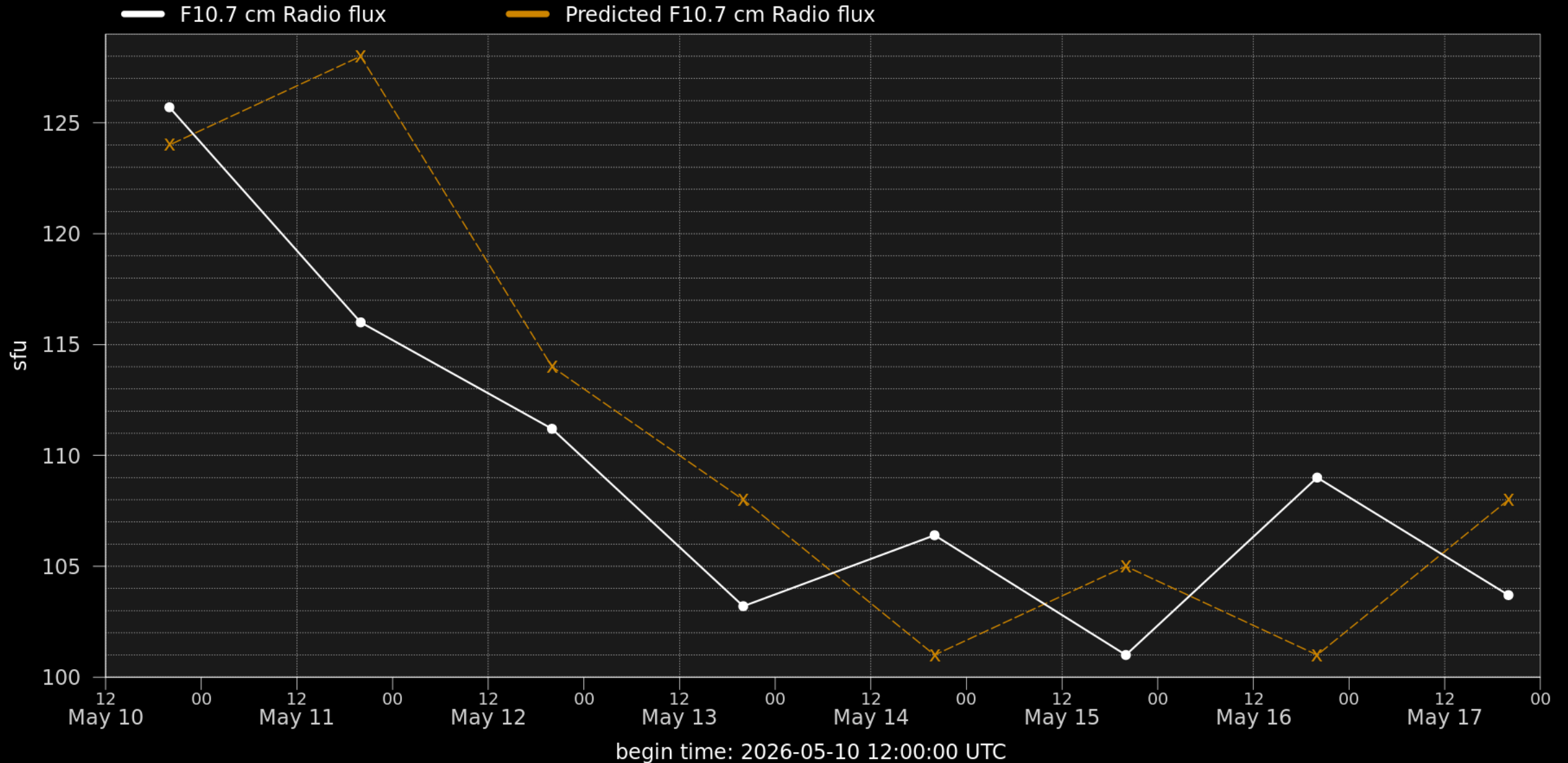


Kanzelhöhe Observatory  
2026-05-17 08:26:46 UTC

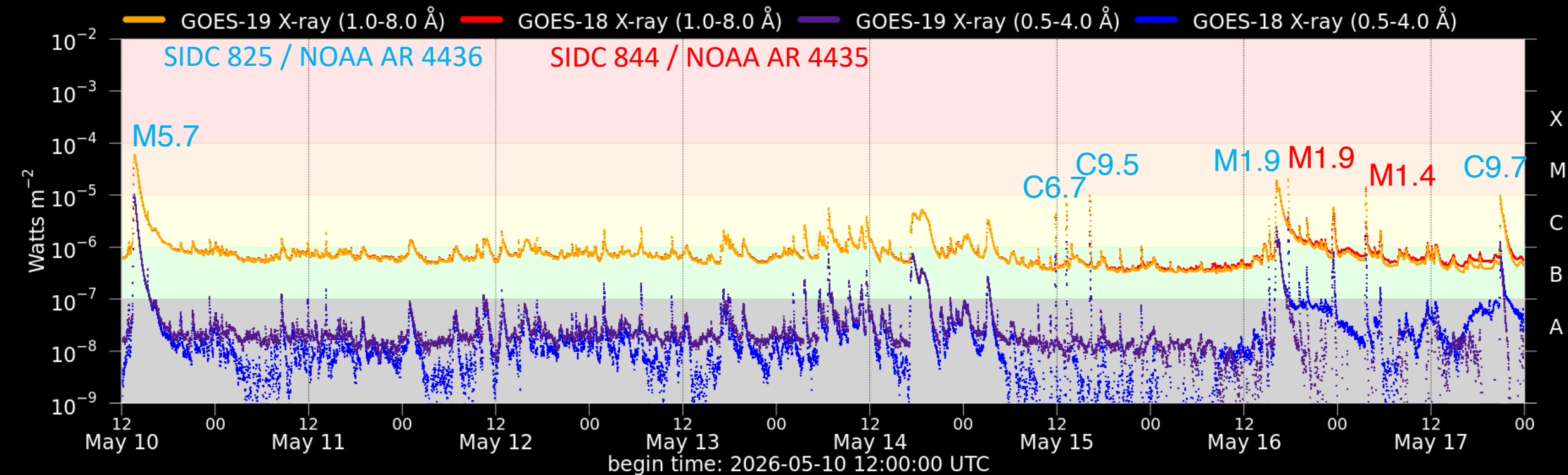
University of Graz  
(Austria)



# Solar F10.7cm radio flux



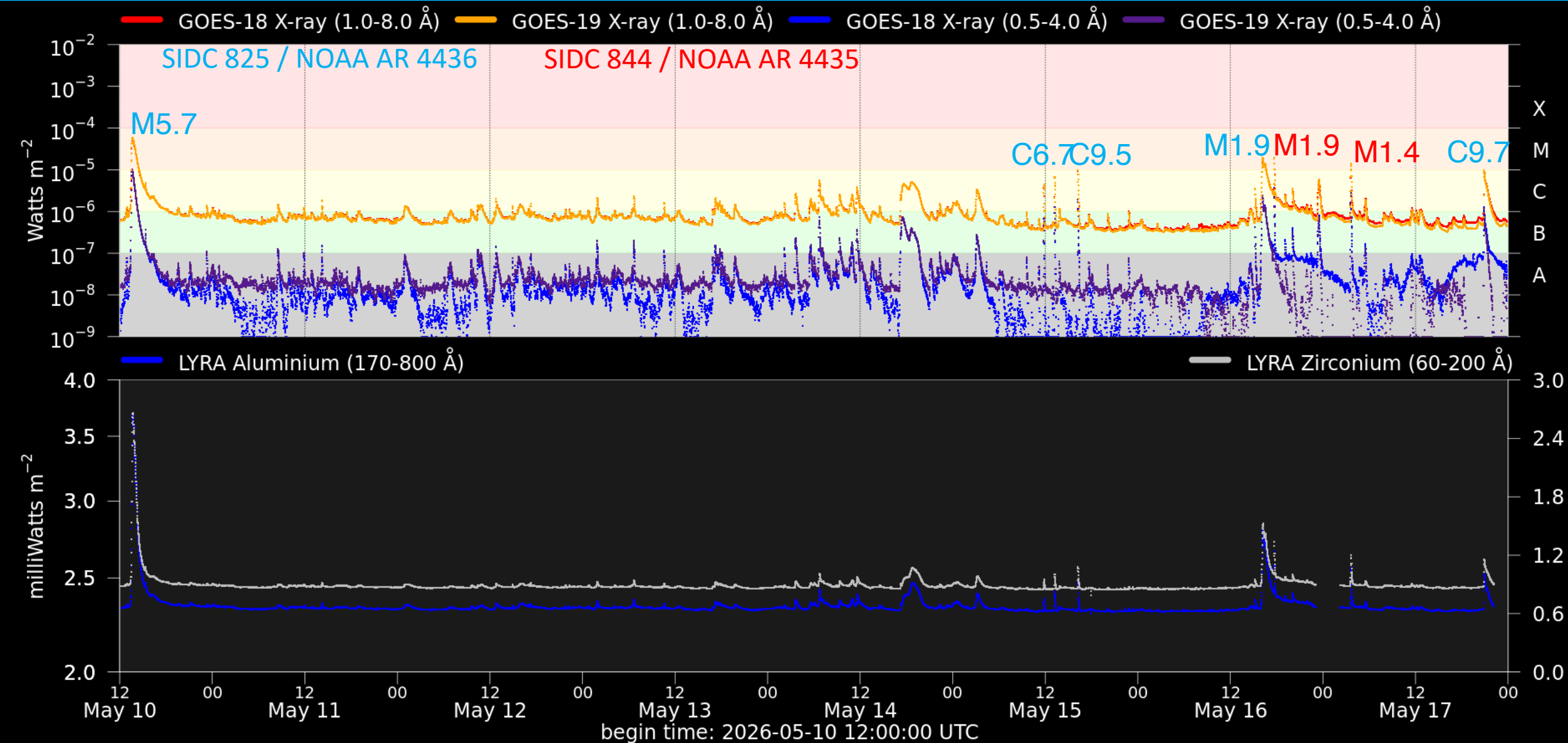
# Flaring activity



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

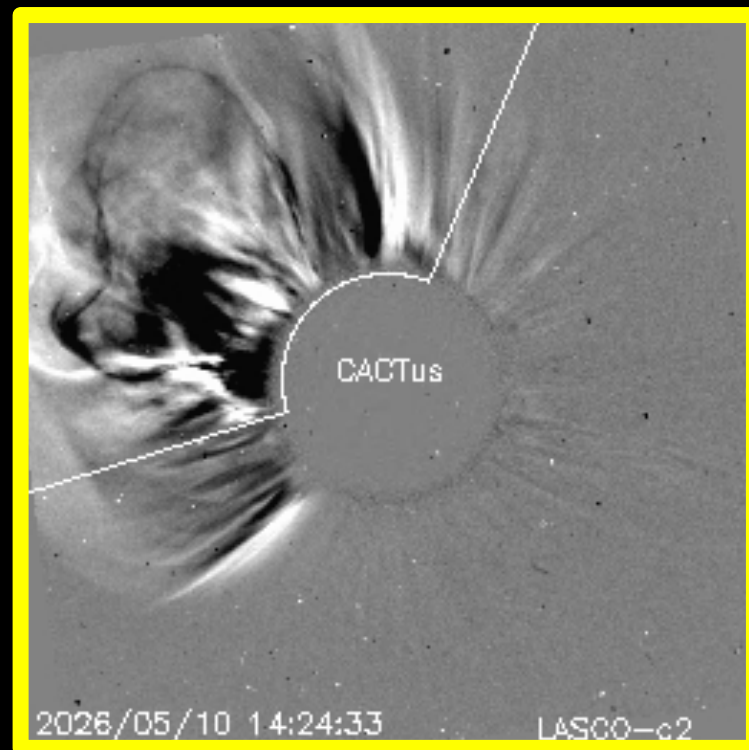
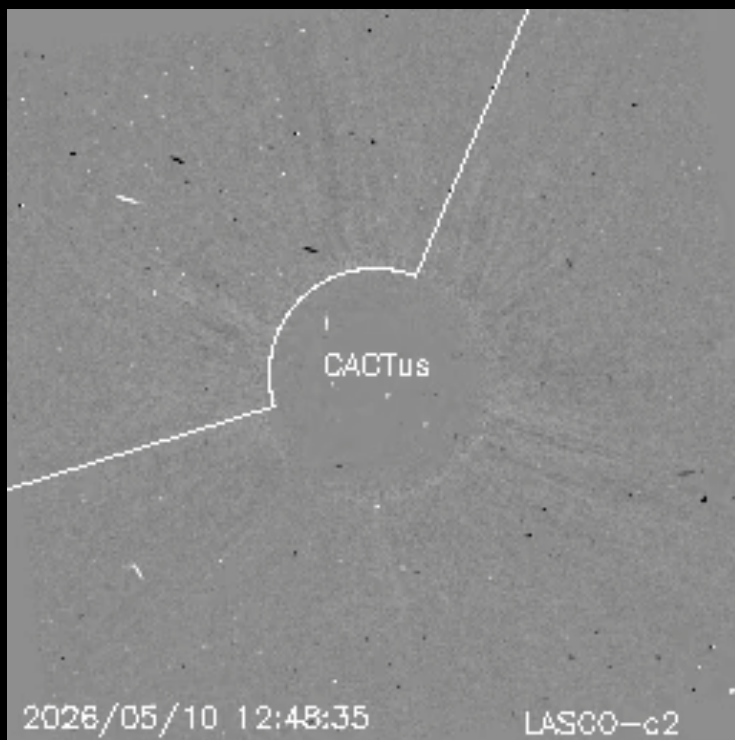
Issue date	2026-05-10	2026-05-11	2026-05-12	2026-05-13	2026-05-14	2026-05-15	2026-05-16	2026-05-17
Probability (%)	99 69 10	99 74 10	99 76 10	94 50 07	80 24 01	91 39 01	88 37 01	95 43 01
Observed (#)	04 01 00	04 00 00	06 00 00	11 00 00	06 00 00	04 00 00	06 03 00	02 00 00

# Solar X-Ray and UV flux

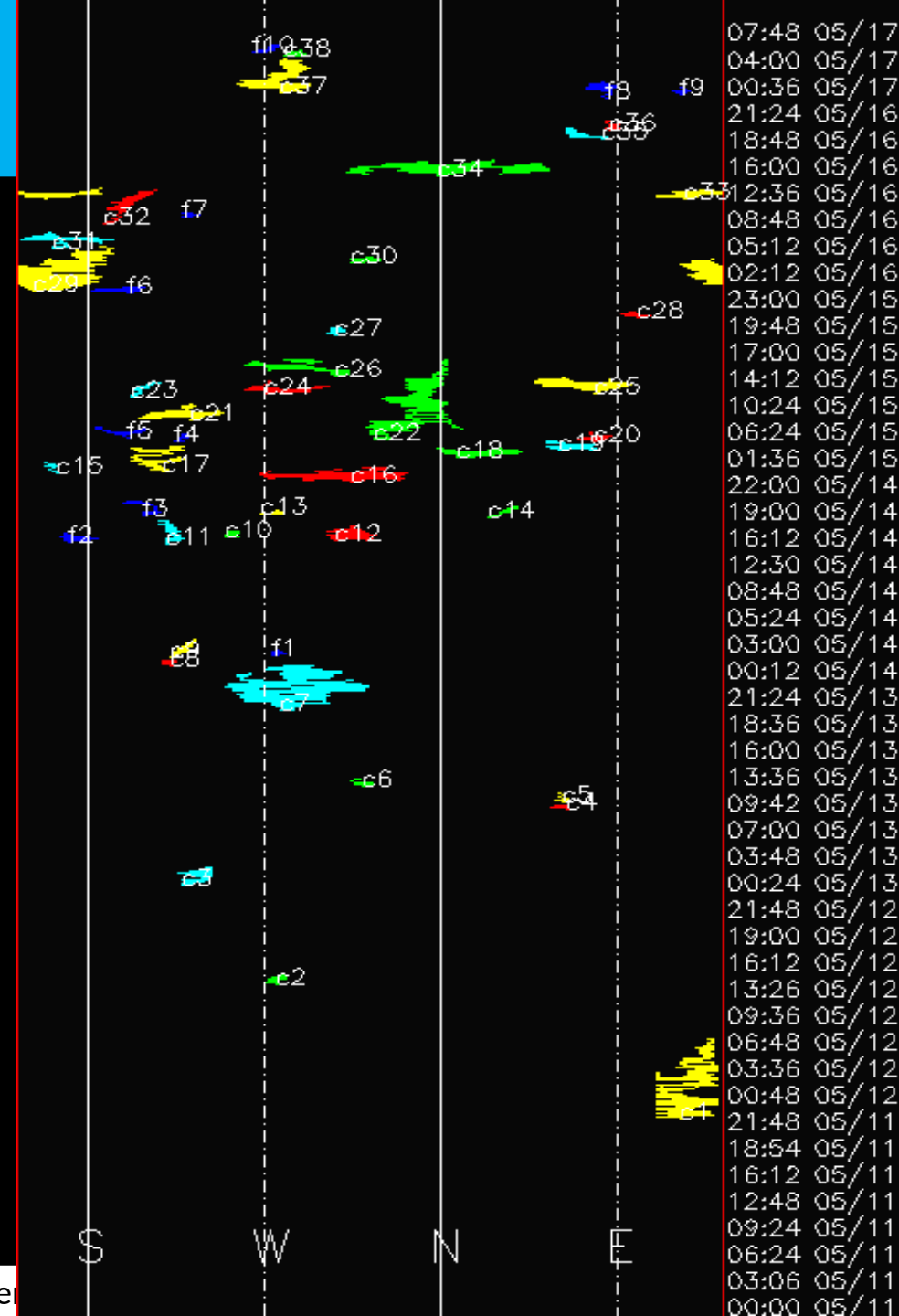


# Coronal Mass Ejections

1 PARTIAL HALO (SIDC CME 650) starting from around 13:48 UTC on May 10 associated with an M5.7 flare from SIDC Sunspot Group 825 (NOAA 4436)



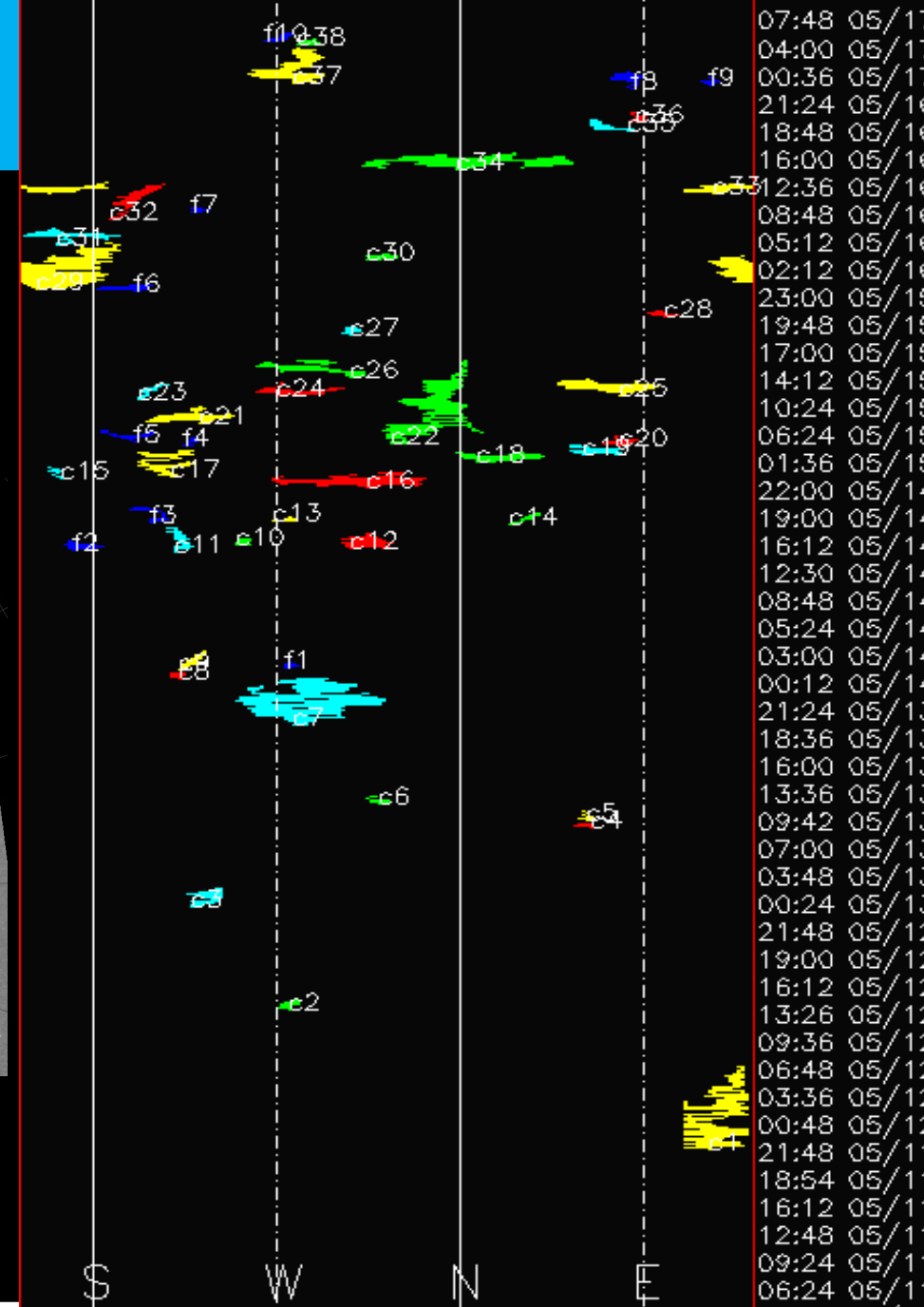
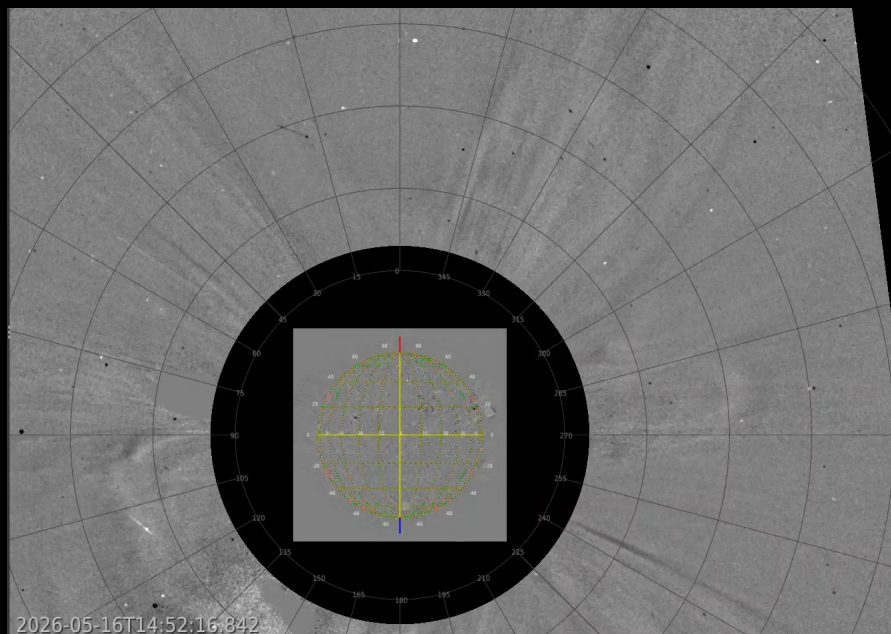
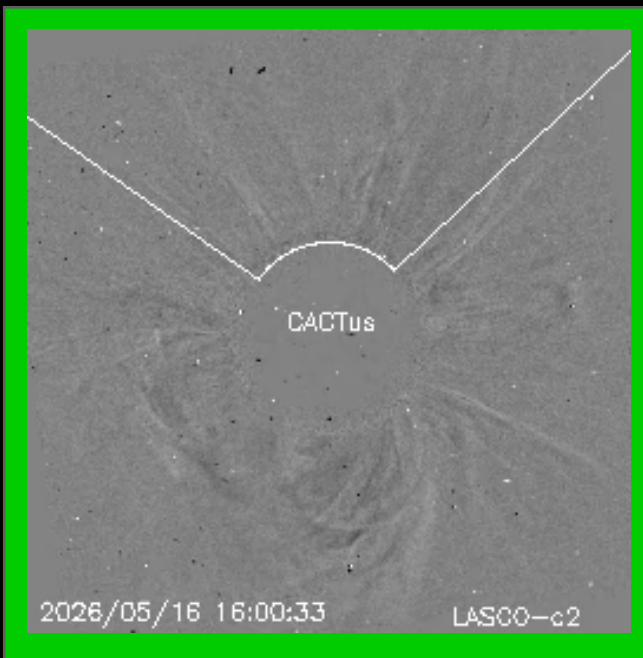
Type II radio emission 13:29  
Glancing blow arrival on May 13



# Coronal Mass Ejections

A wide and fast Coronal Mass Ejection (SIDC CME 656) starting from around 16:36 UTC on May 16 associated with an M1.9 flare from SIDC Sunspot Group 825 (NOAA 4436). A glancing blow can be expected at Earth around May 19.

associated dimming and field line movement observed in SDO/AIA data



Type IV radio emission 16:05

CME has a fitted speed around 1200 km/s

Solar Wind and

# Geomagnetic Activity



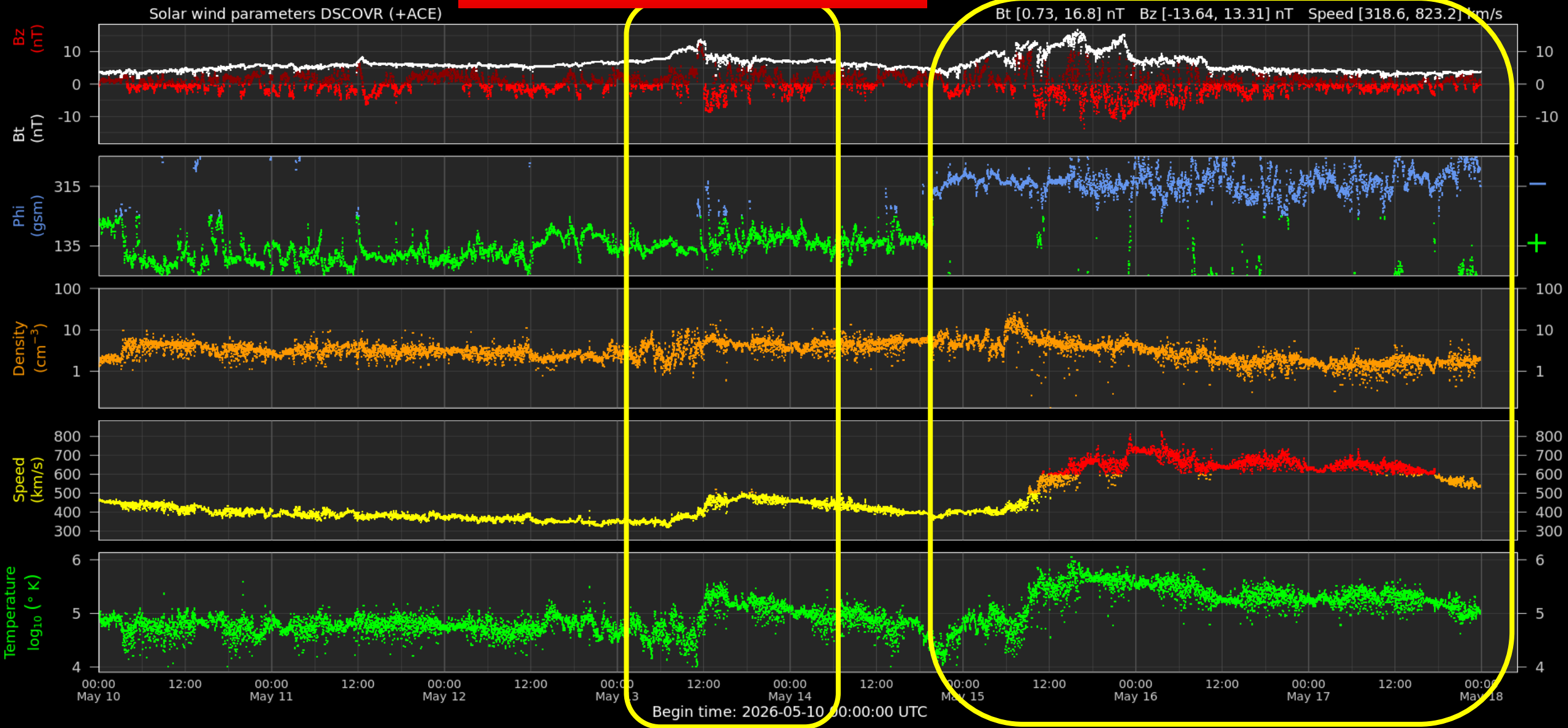
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# Solar wind parameters

HSS (SIDC CH 159 +) + (SIDC CME 650)

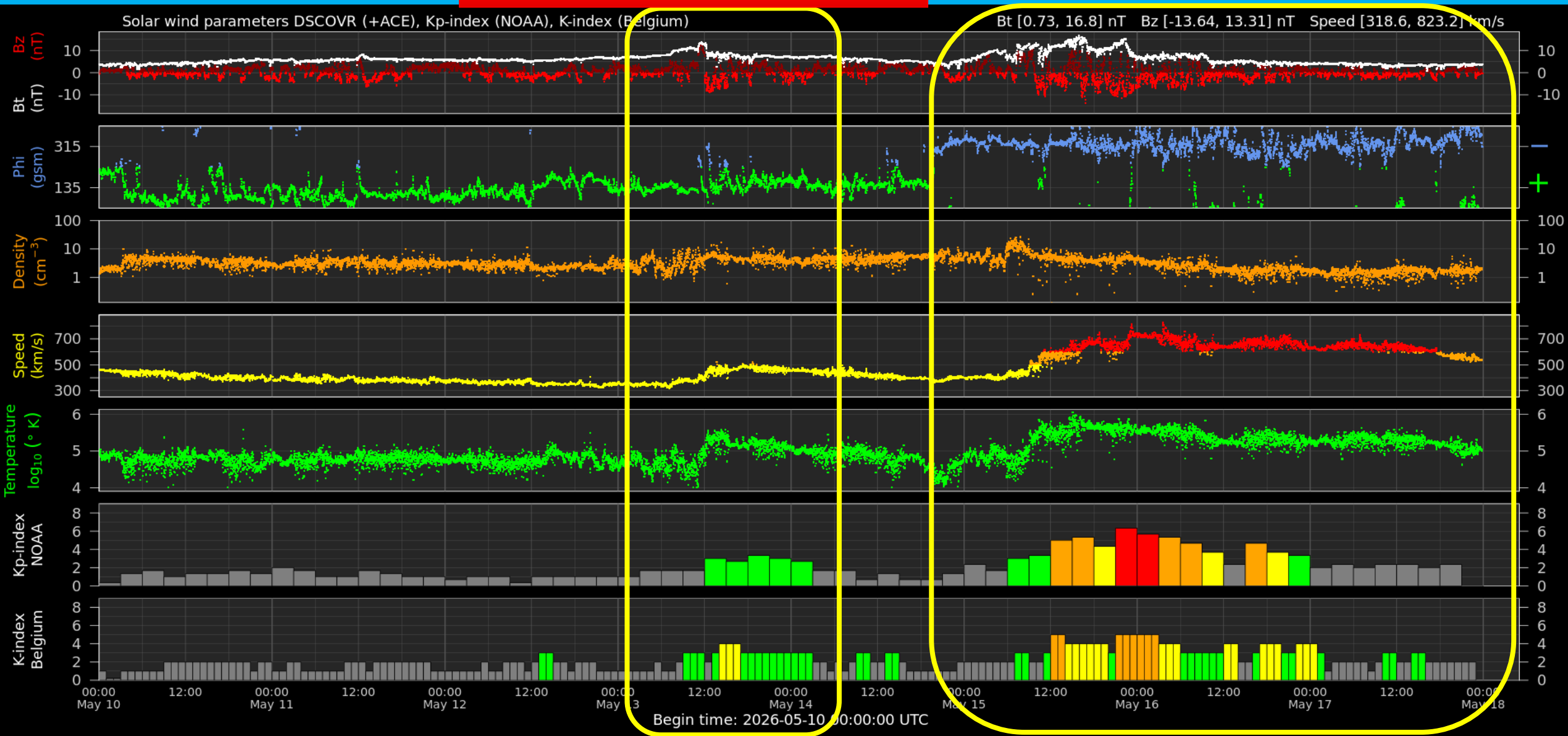
HSS (SIDC CH 147 -)



# Solar wind parameters & K-indices

HSS (SIDC CH 159 +) + (SIDC CME 650)

HSS (SIDC CH 147 -)



# Geomagnetic activity (K-indexes)

HSS (SIDC CH 159 +) + (SIDC CME 650)

HSS (SIDC CH 147 -)



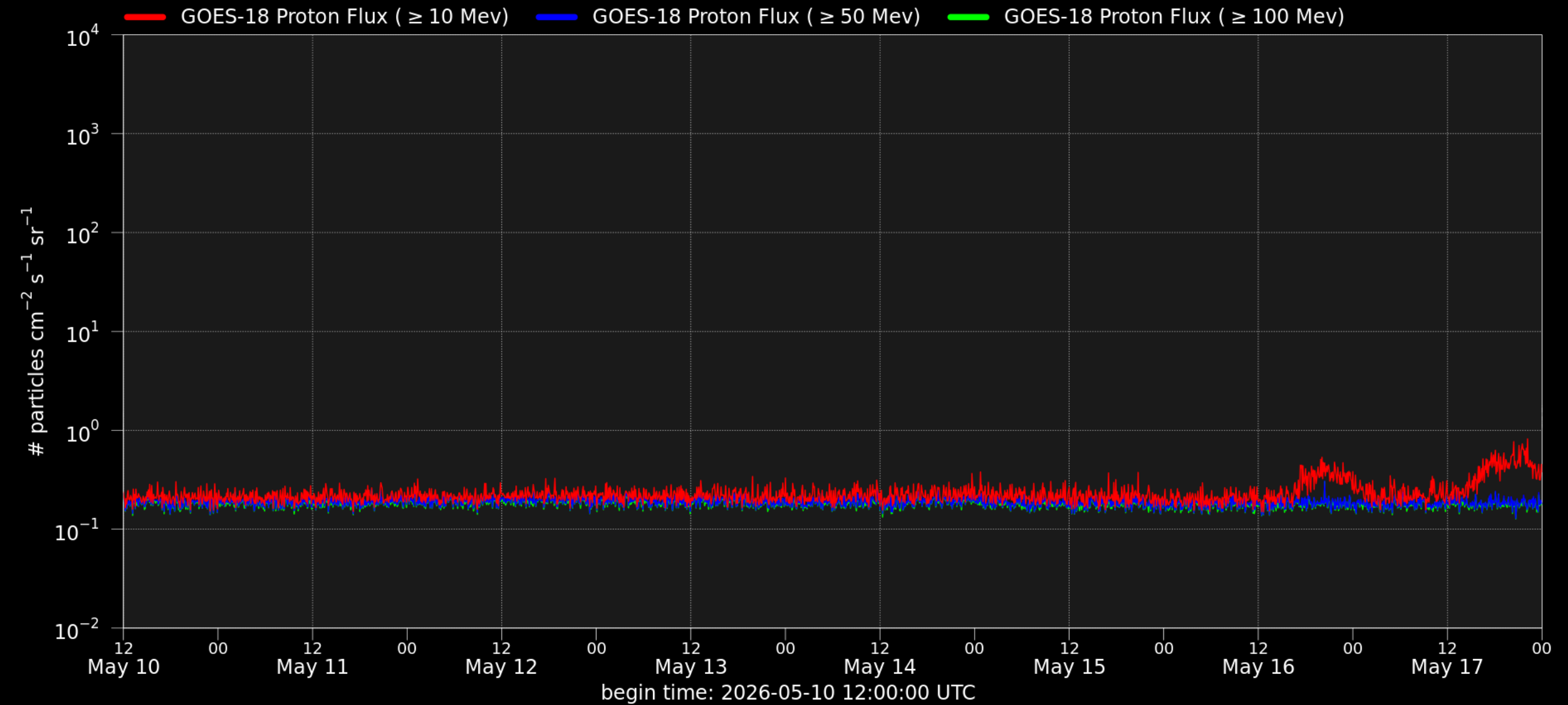
# Energetic Particles



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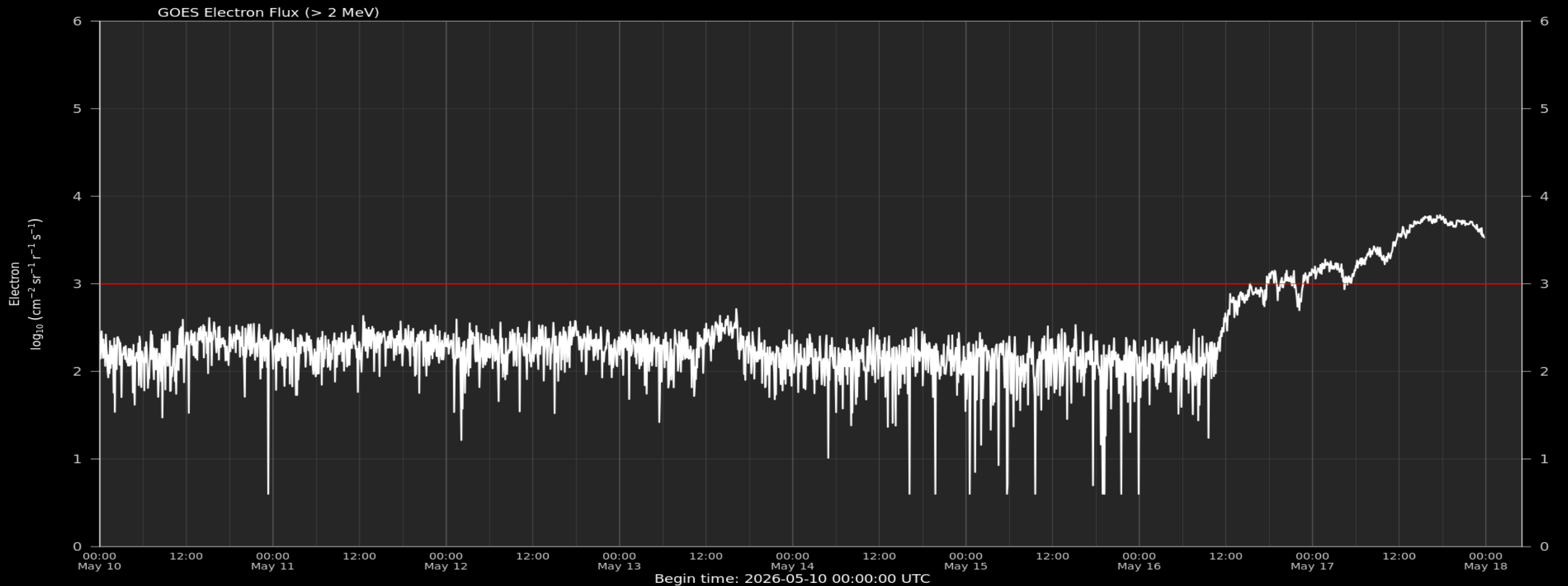
# Solar proton flux



# 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)



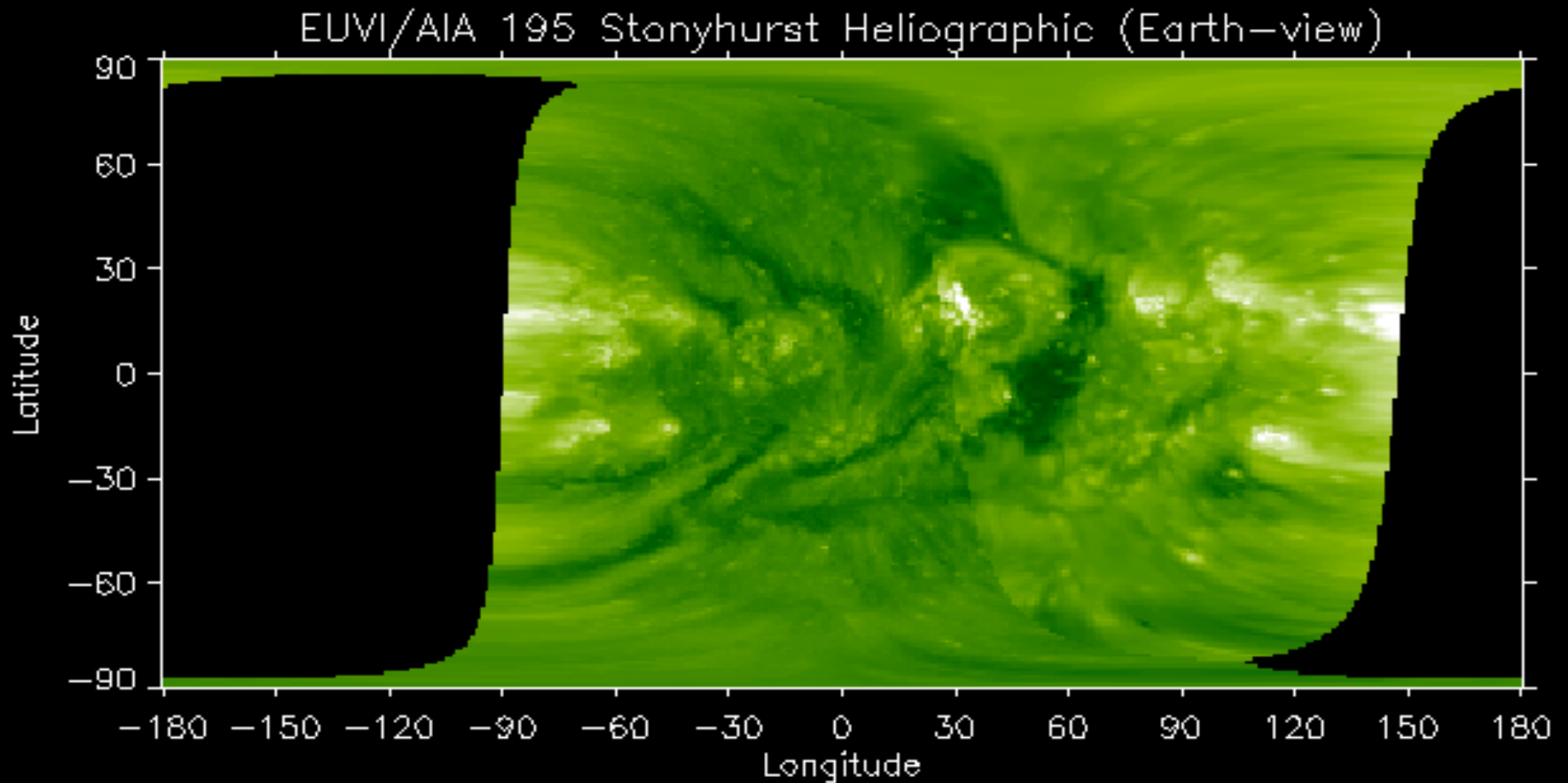
# Outlook



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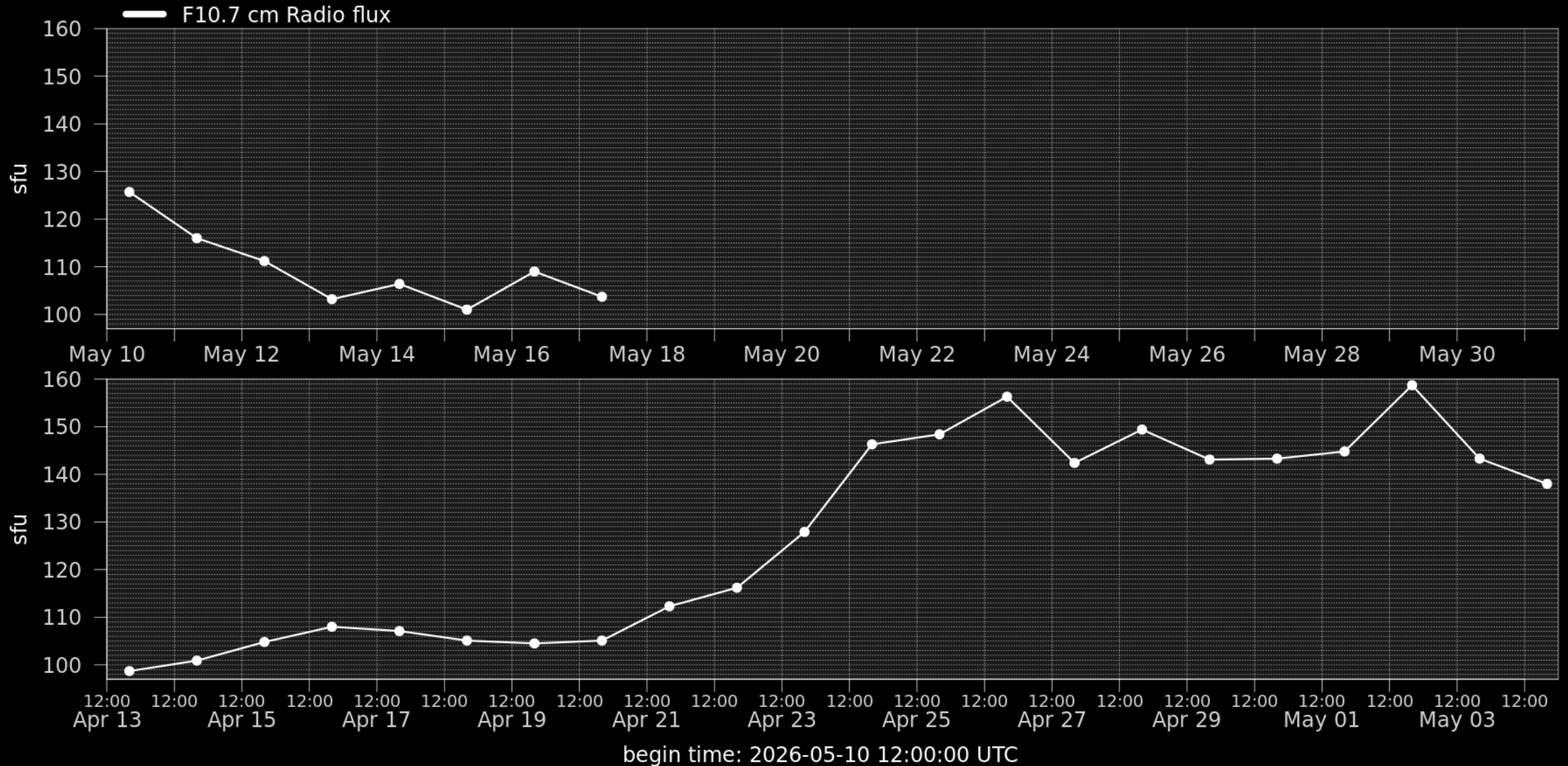
Solar Influences  
Data analysis Centre  
[www.sidc.be](http://www.sidc.be)

# Outlook: Solar activity

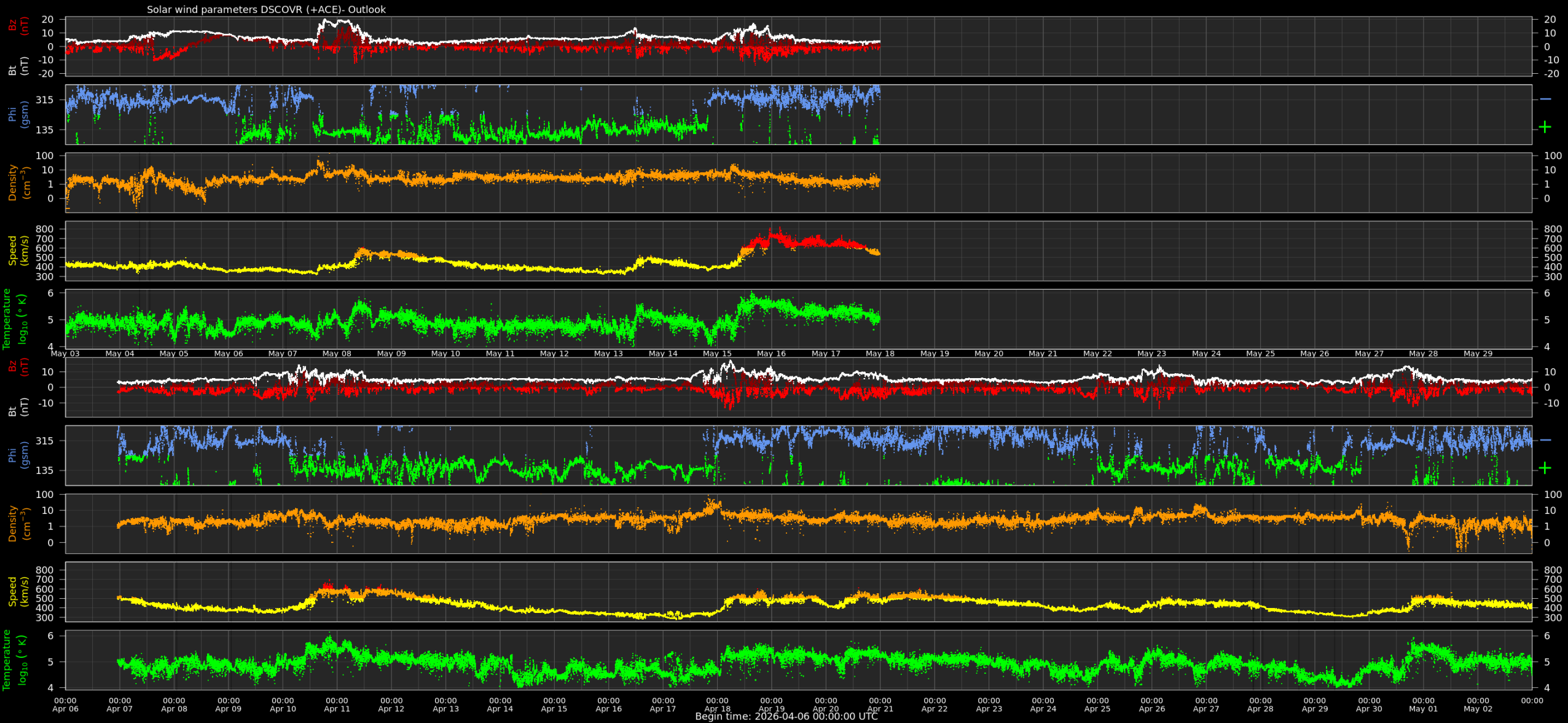


Observation date: 2026/05/17 20:55:00

# Outlook: Solar F10.7cm radio flux



# Outlook: Solar wind parameters



# Outlook: Geomagnetic activity



# Outlook: Electron Flux at GEO Outlook



PECASUS



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# Pegasus related events

On Duty Centre role since 12 May and will remain on duty until 26 May

- PSD Advisories

SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at [www.sidc.be](http://www.sidc.be)



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