

# SIDC Space Weather Briefing

27 April 2026-03 May 2026

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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 2026-04-27 00:00 to 2026-05-03 23:59

Active regions	12 NOAA Active Regions: SIDC Sunspot Groups 847 (NOAA AR 4420), SIDC Sunspot Groups 805 (NOAA AR 4425)
Flares	# C-class flare: >100 # M-class flare: 8 # X-class flare: 0
Coronal Holes	2 CH-
CMEs	-

Proton flux	Below 10 pfu threshold level
Electron flux	Exceeded 1000 pfu threshold level

## Solar wind and geomagnetic conditions

ICMEs	No ICME arrival
Solar wind conditions	B : 0.2 - 14.48 nT //Bz: -12.32 nT to 10.53 nT //Speed: 295 - 560 km/s
Geomagnetic conditions	max K <sub>Bel</sub> : 4.0, max K <sub>p</sub> (NOAA): 4.67, Minor Storm conditions

All Quiet Alert: All quiet off

# Solar Activity

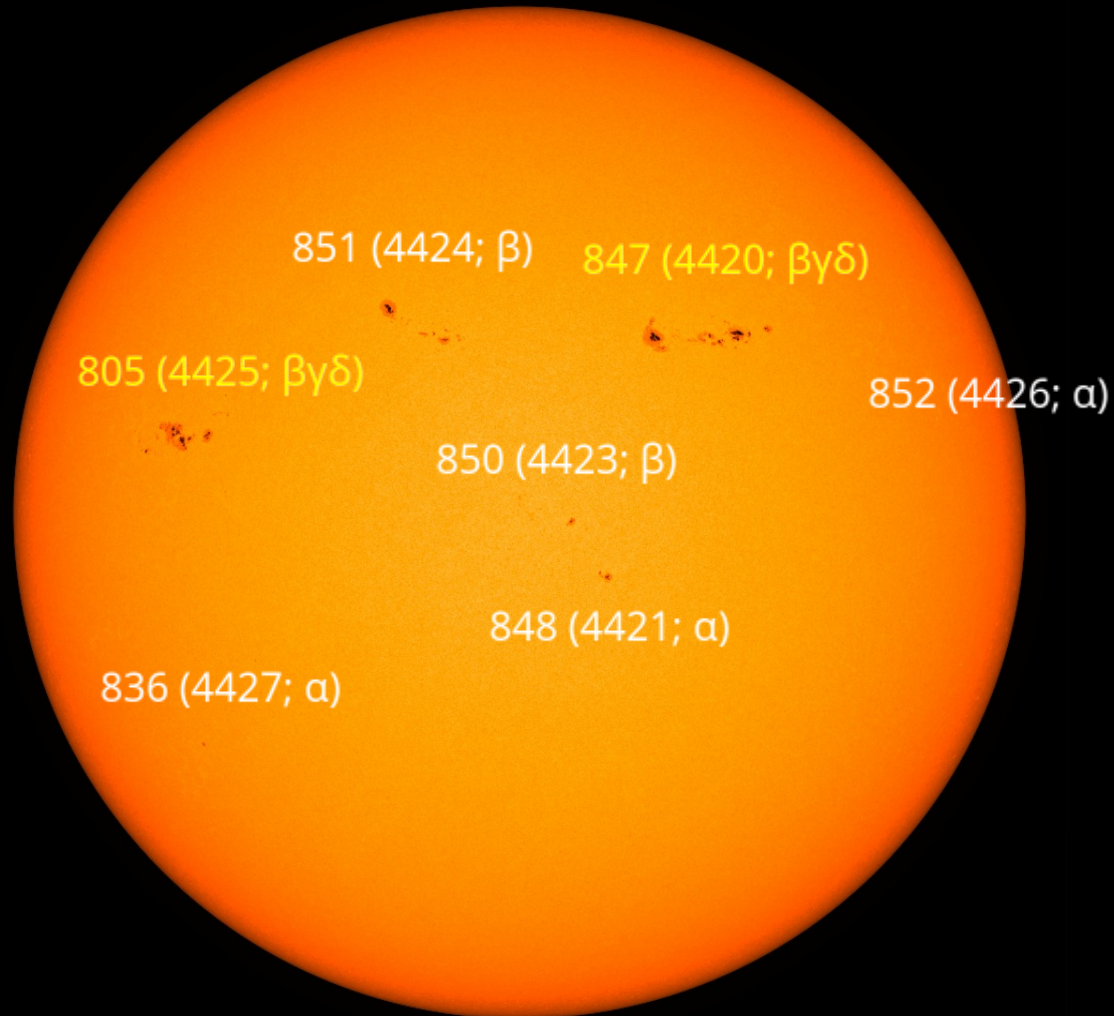


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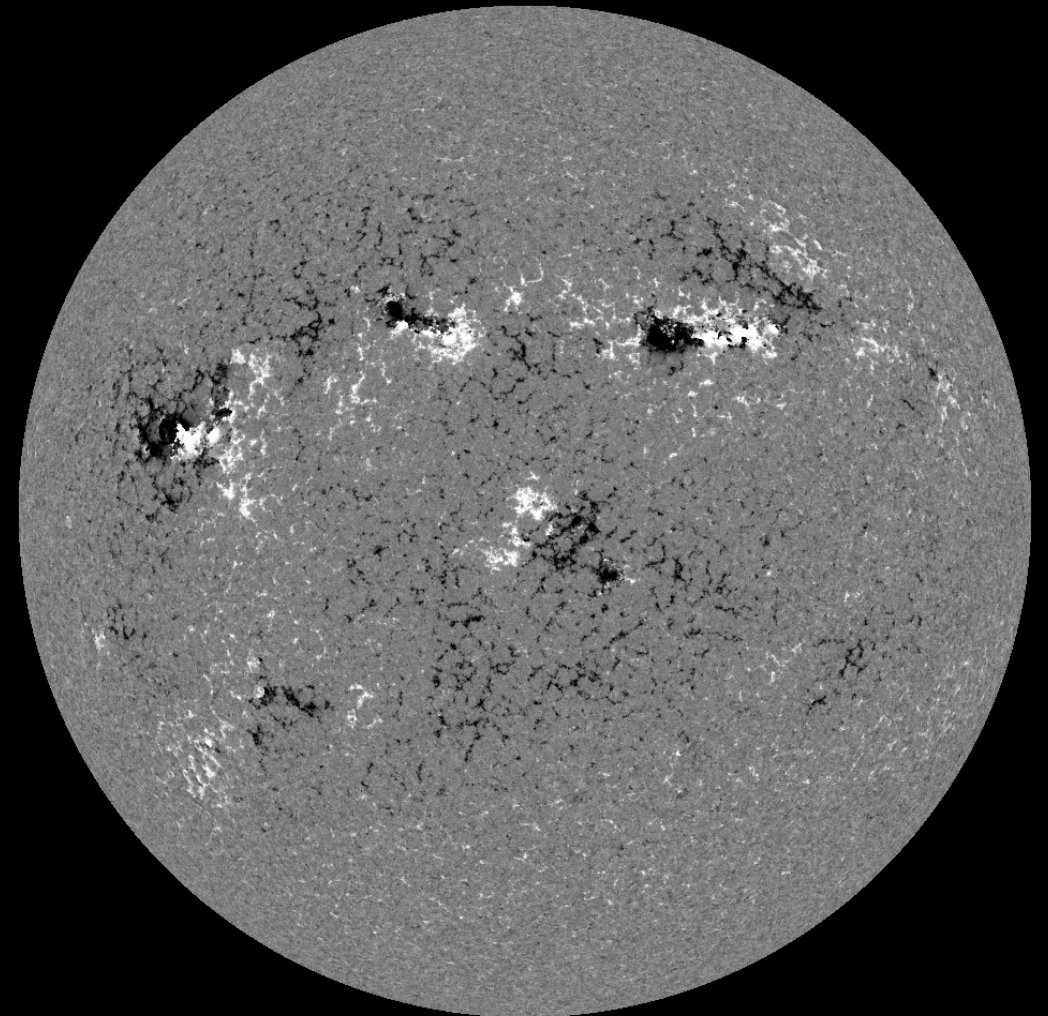
# Solar active regions

SDO/HMI White Light 2026-04-27



SDO/HMI Continuum: 20260427\_120000

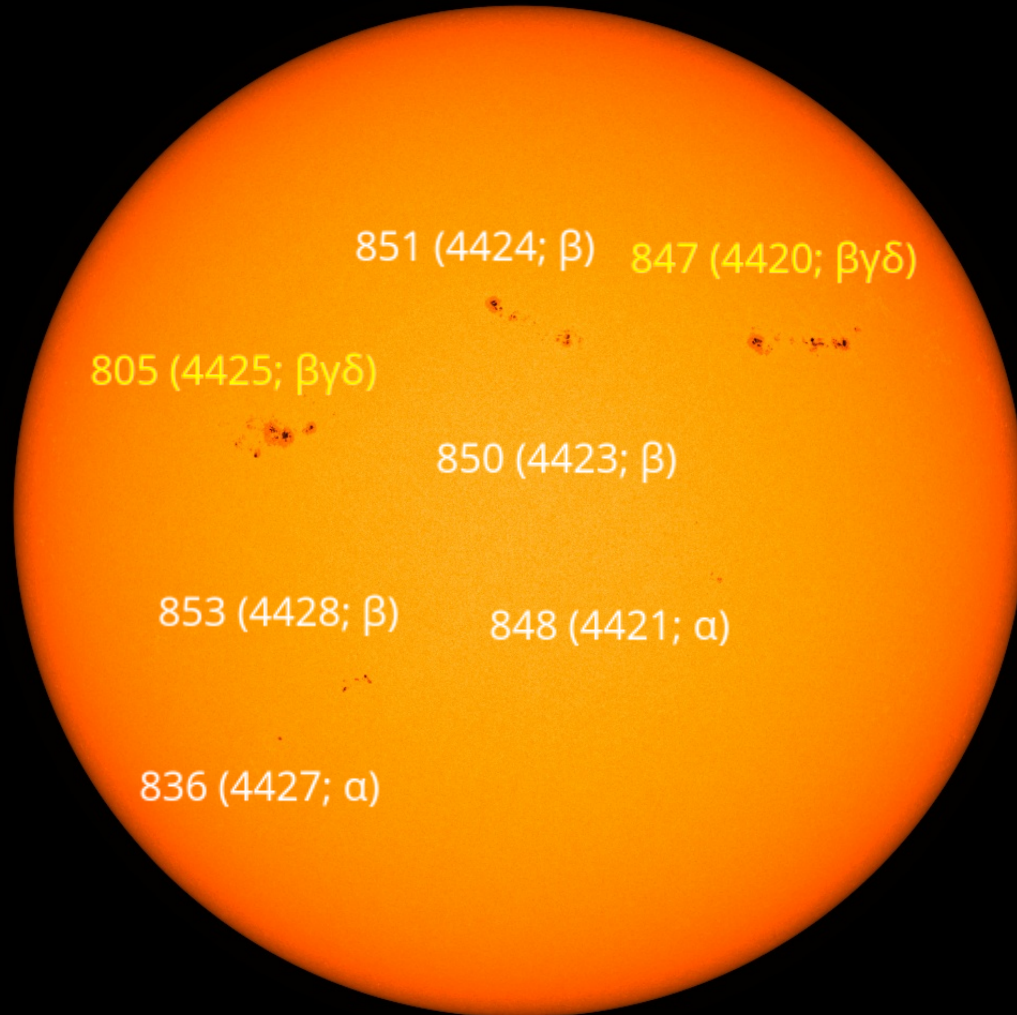
SDO/HMI Magnetogram 2026-04-27



SDO/HMI Magnetogram: 20260427\_120000

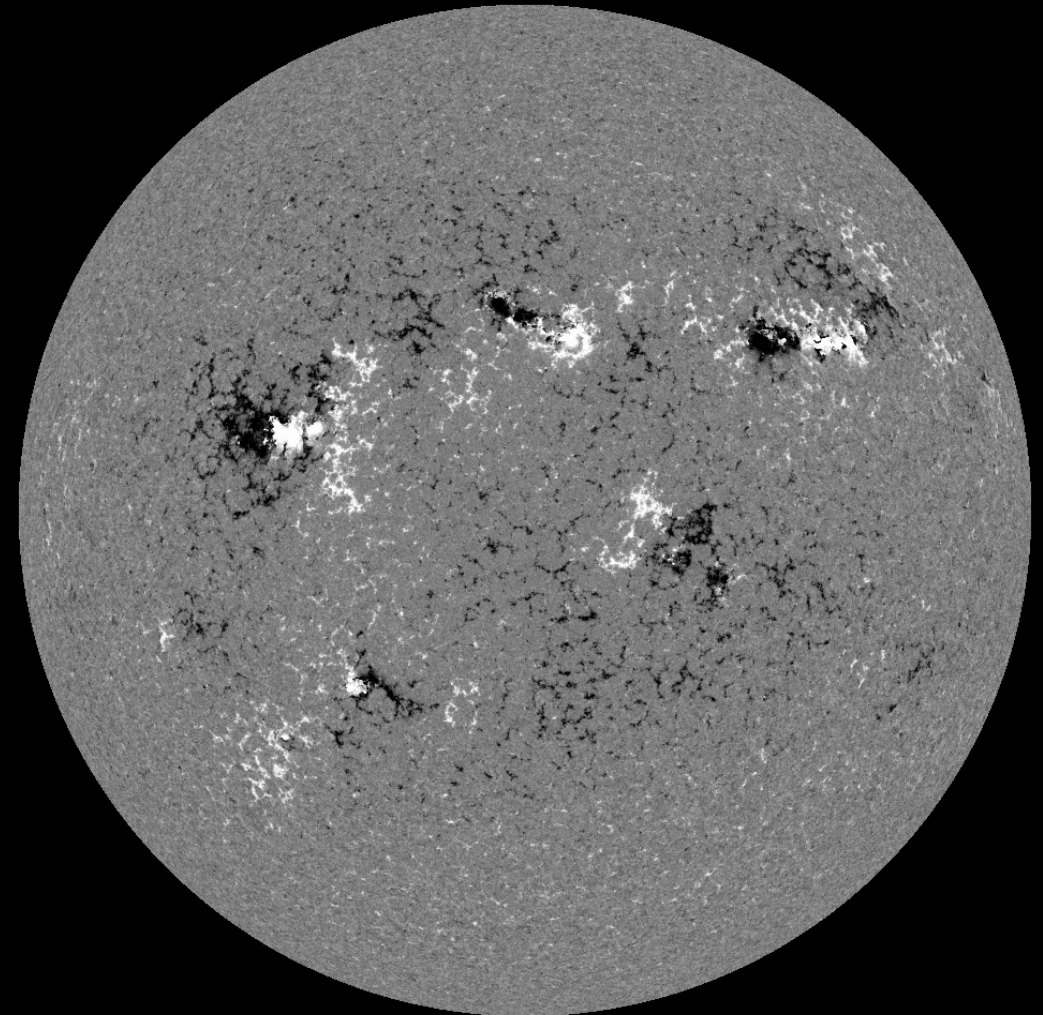
# Solar active regions

SDO/HMI White Light 2026-04-28



SDO/HMI Continuum: 20260428\_120000

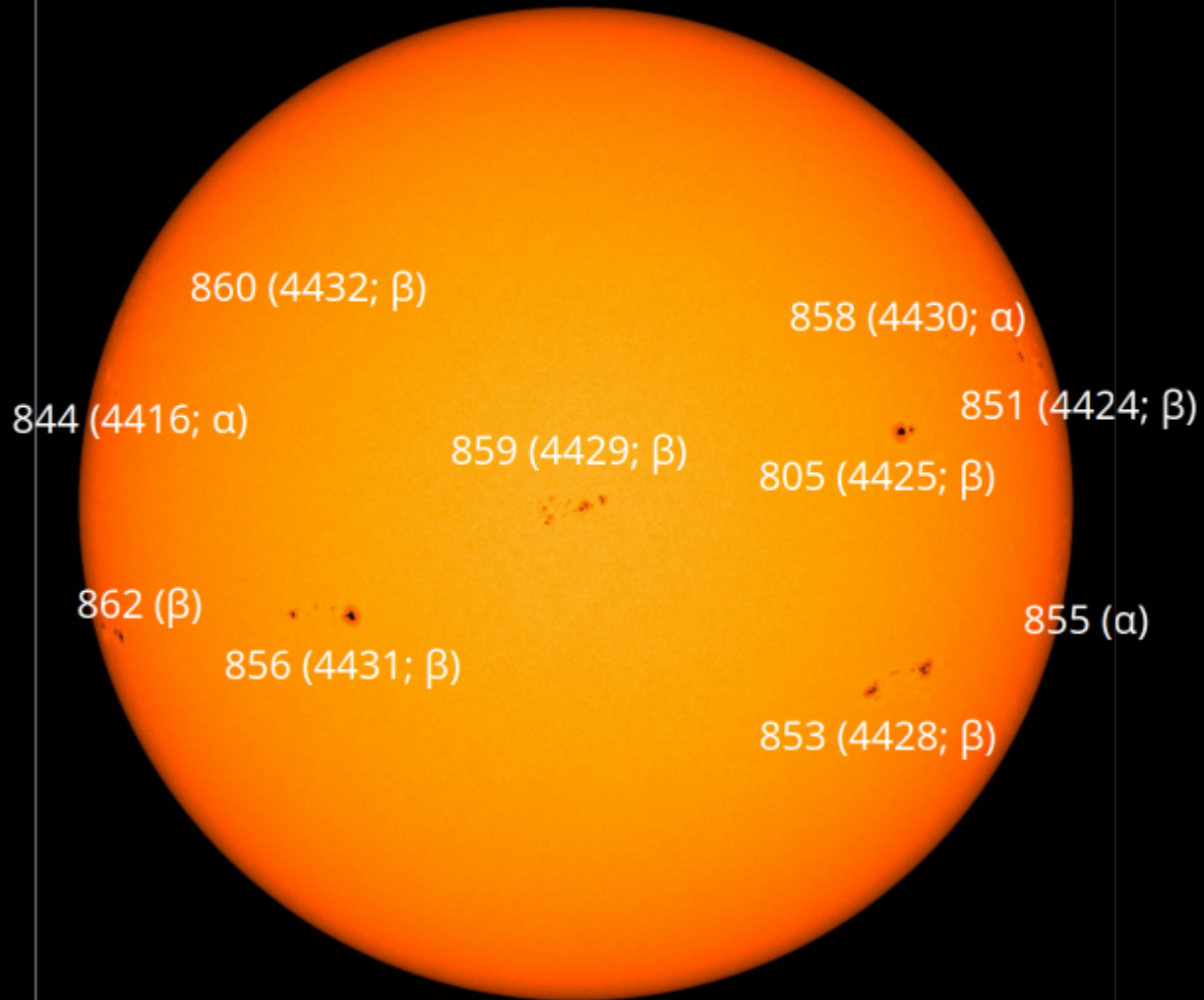
SDO/HMI Magnetogram 2026-04-28



SDO/HMI Magnetogram: 20260428\_120000

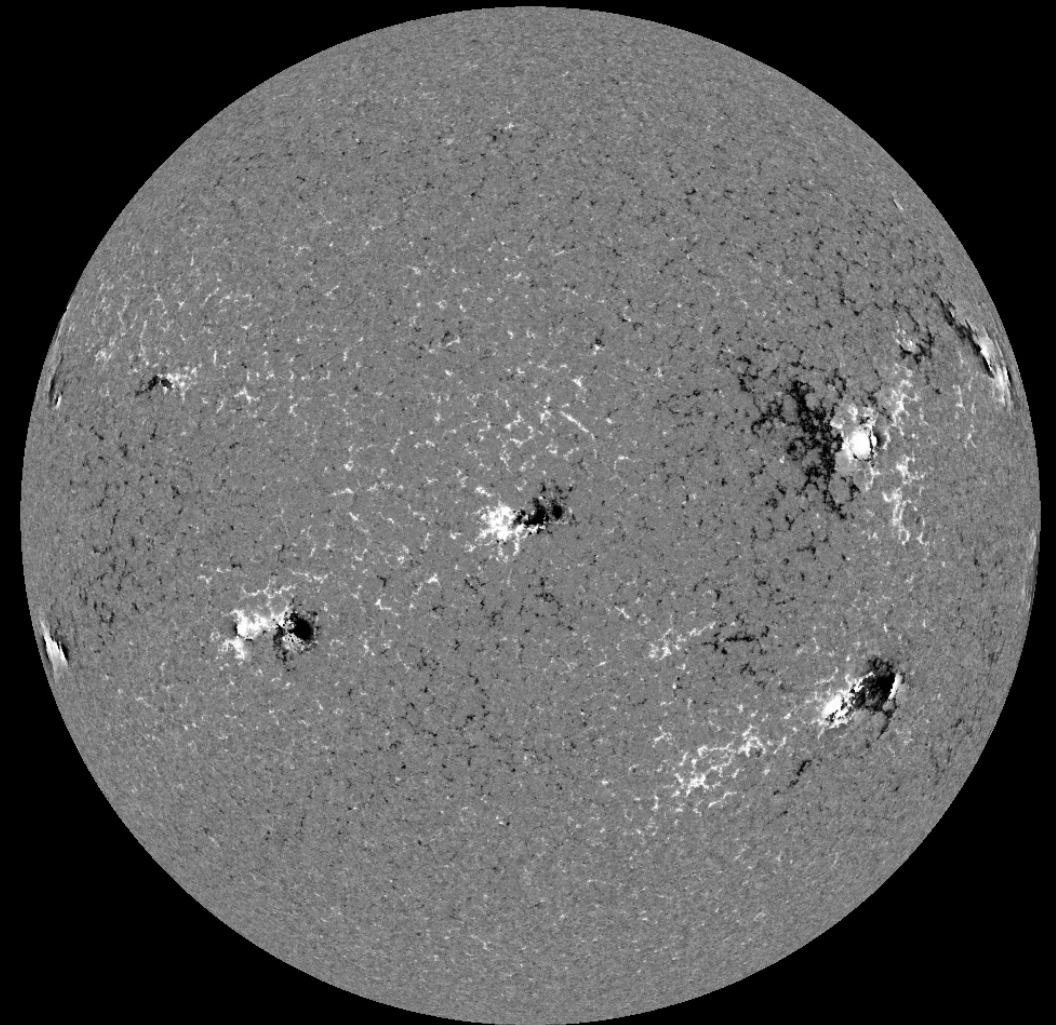
# Solar active regions

SDO/HMI White Light 2026-05-03



SDO/HMI Quick-Look Continuum: 20260503\_120000

SDO/HMI Magnetogram 2026-05-03

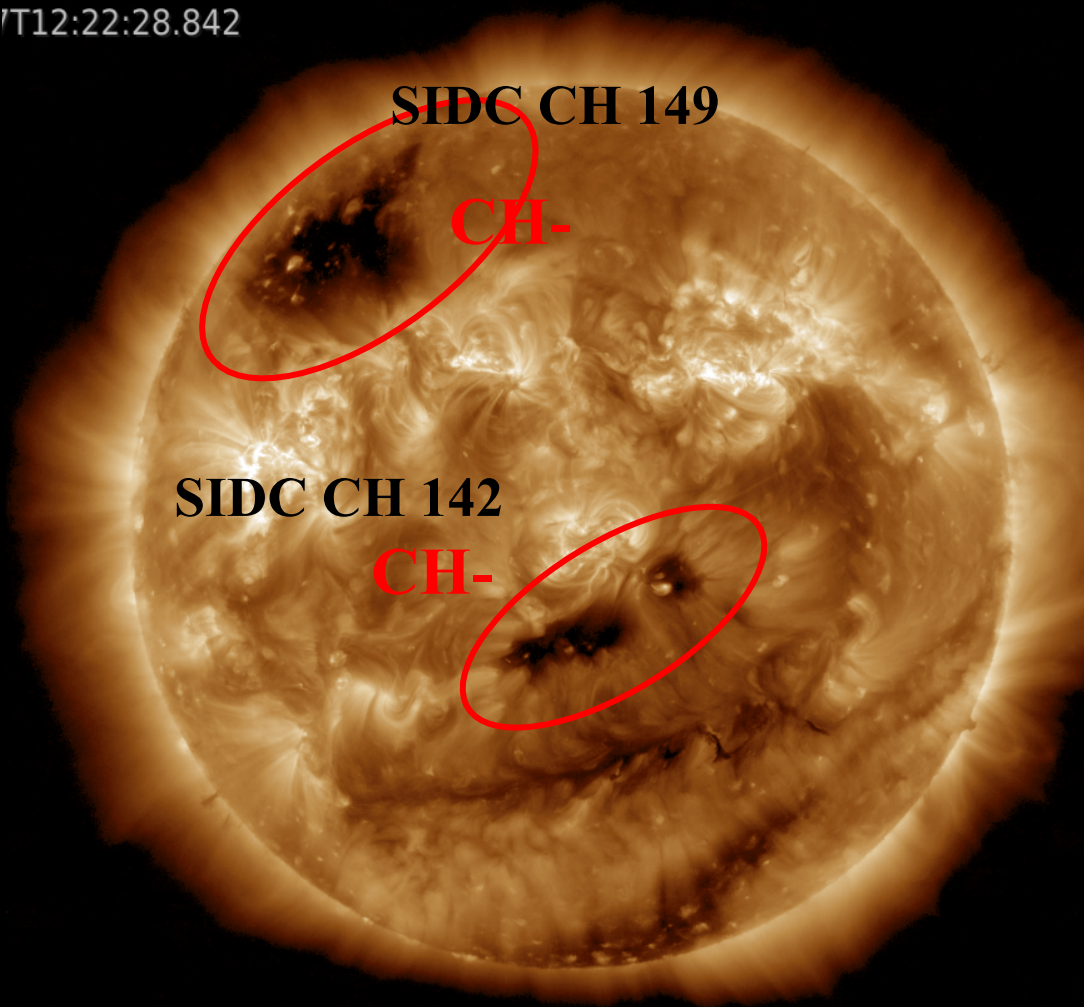


SDO/HMI Quick-Look Magnetogram: 20260503\_120000

# Coronal holes

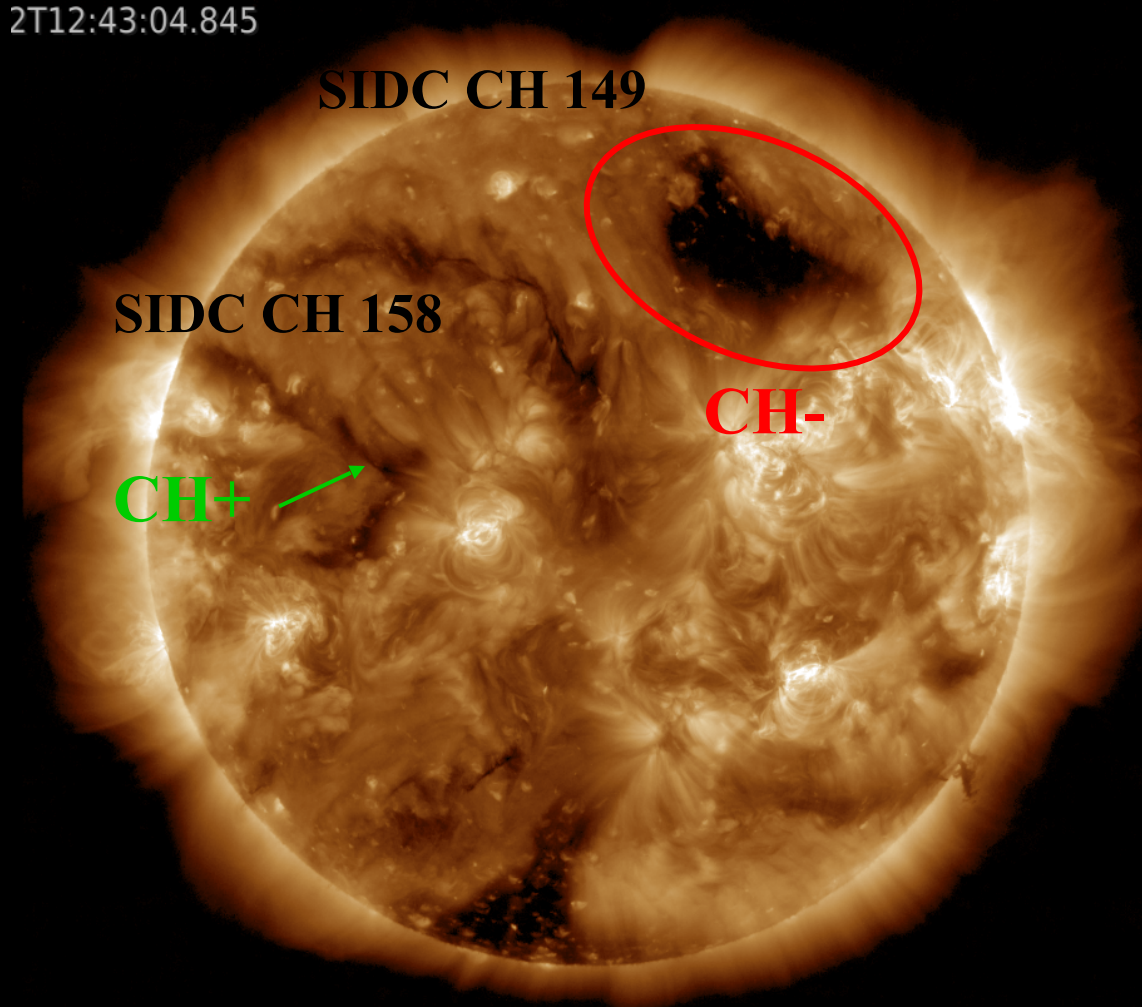
SDO/AIA 19.3 nm 2026-04-27T12:22

7T12:22:28.842



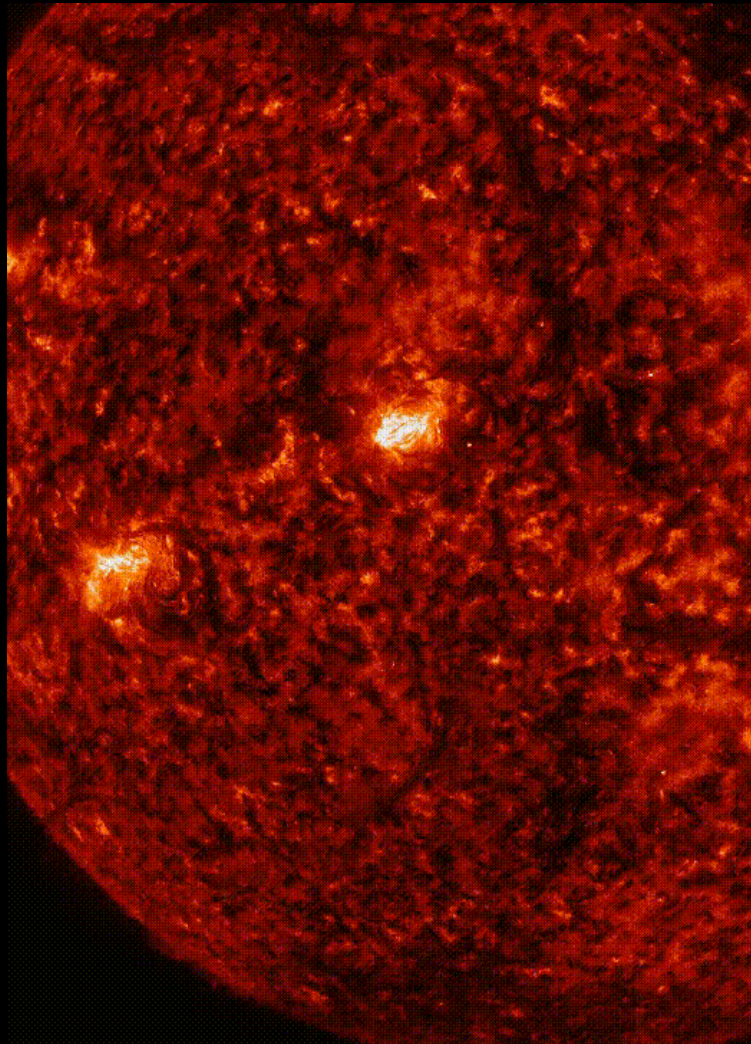
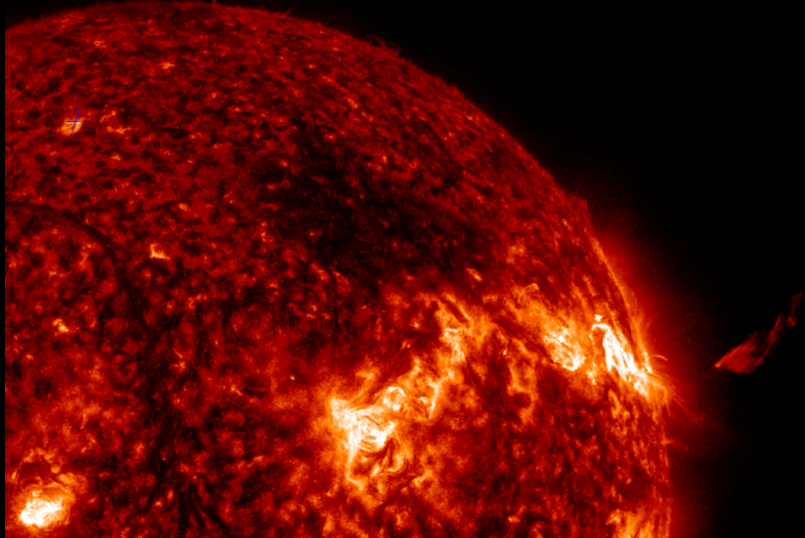
SDO/AIA 19.3 nm 2026-04-28

2T12:43:04.845

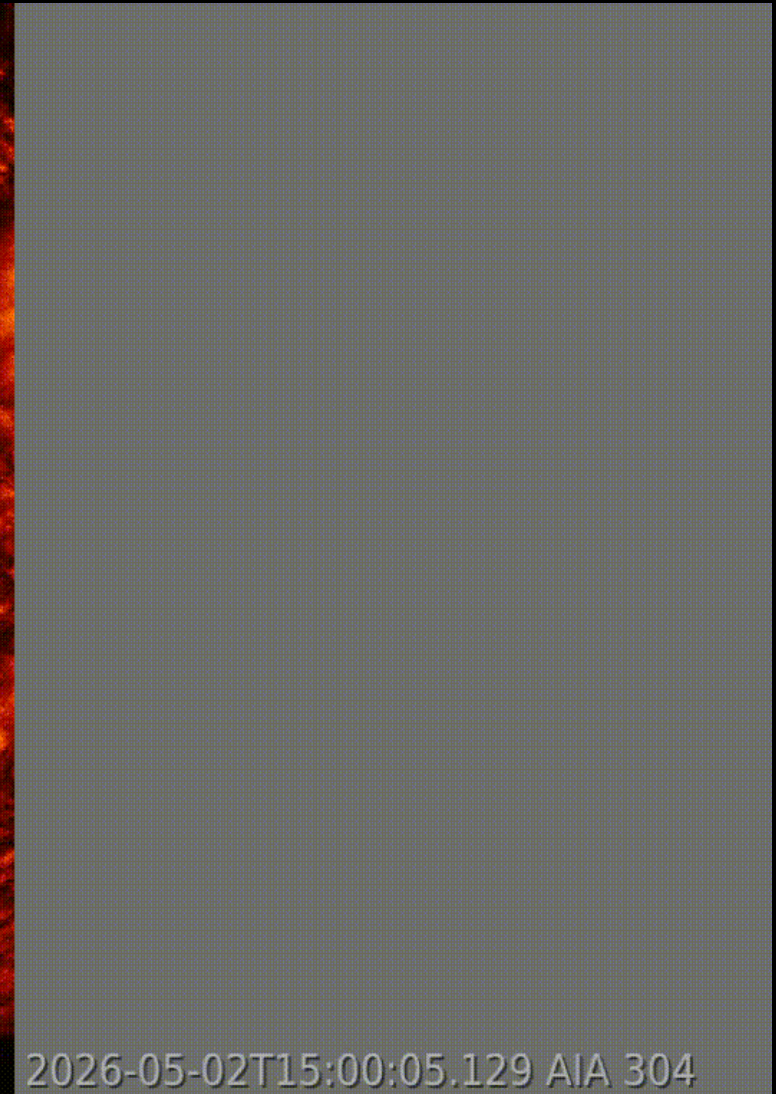


# Filaments

2026-05-02T10:59:29.134 AIA 304



2026-05-02T15:00:05.129 AIA 304



2026-05-02T15:00:05.129 AIA 304

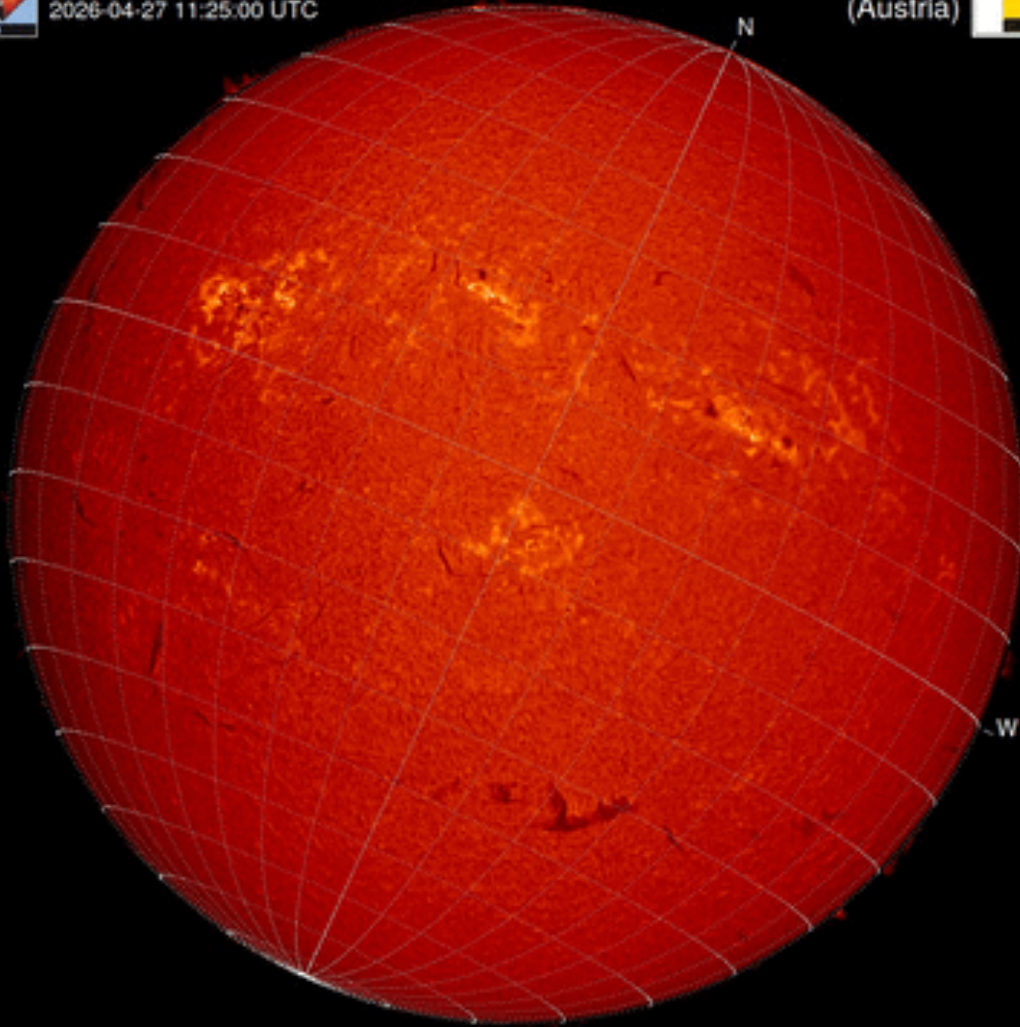
# Filaments & Filament eruptions

H-alpha 2026-04-27



Kanzelhöhe Observatory  
2026-04-27 11:25:00 UTC

University of Graz  
(Austria)

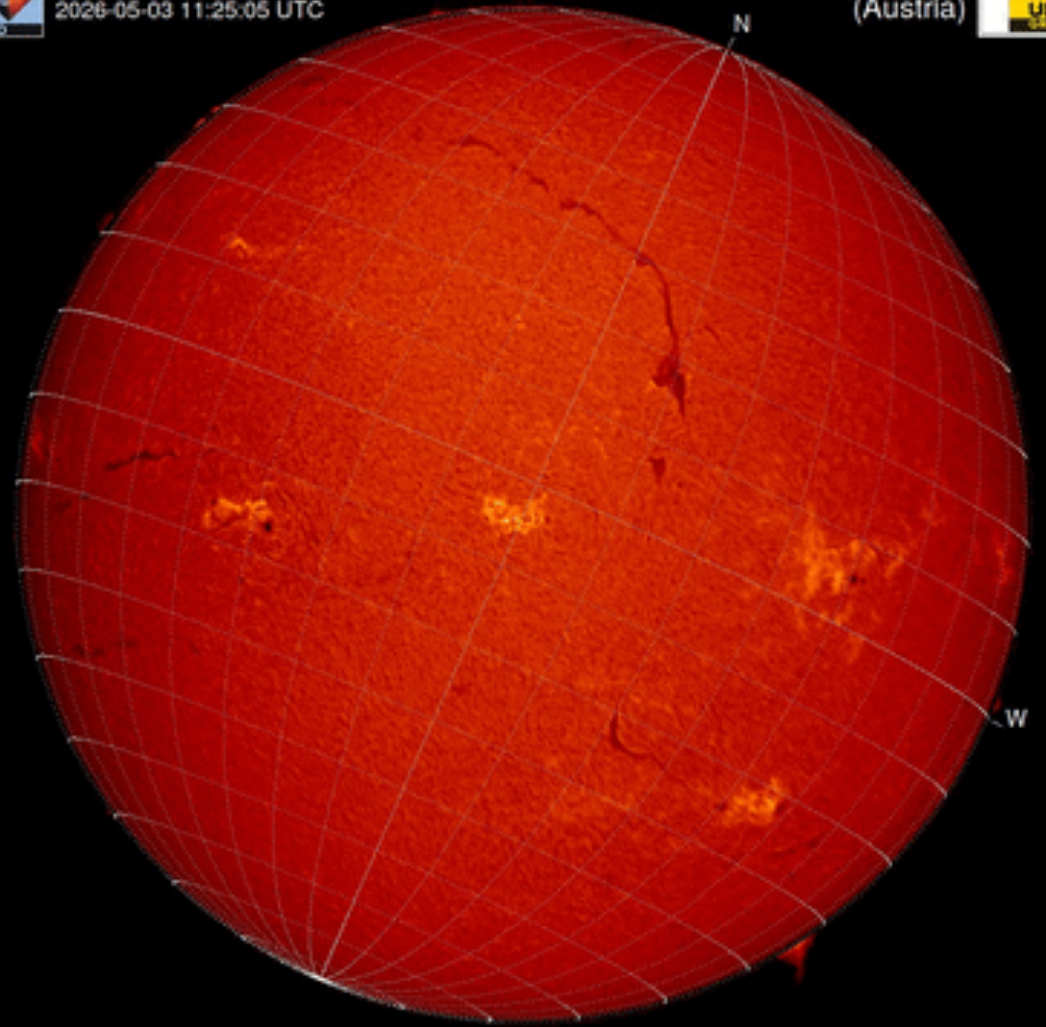


H-alpha 2026-05-03

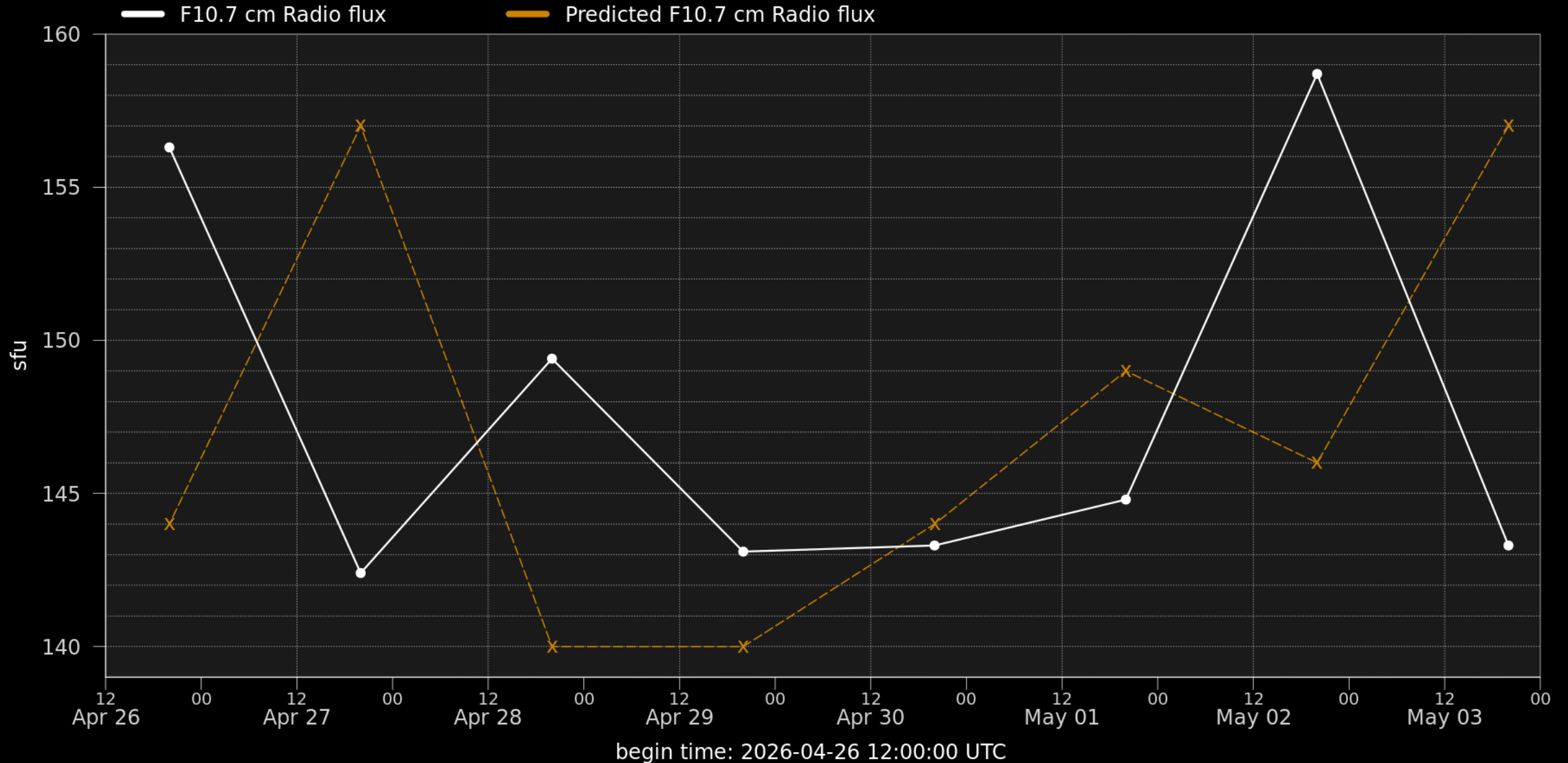


Kanzelhöhe Observatory  
2026-05-03 11:25:05 UTC

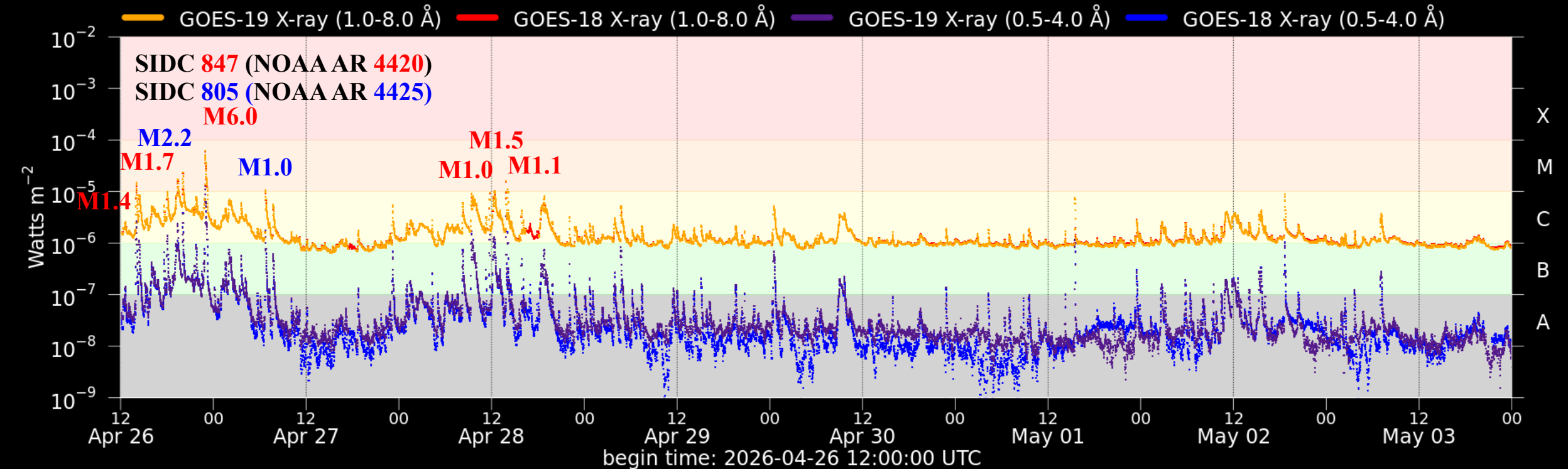
University of Graz  
(Austria)



# Solar F10.7cm radio flux



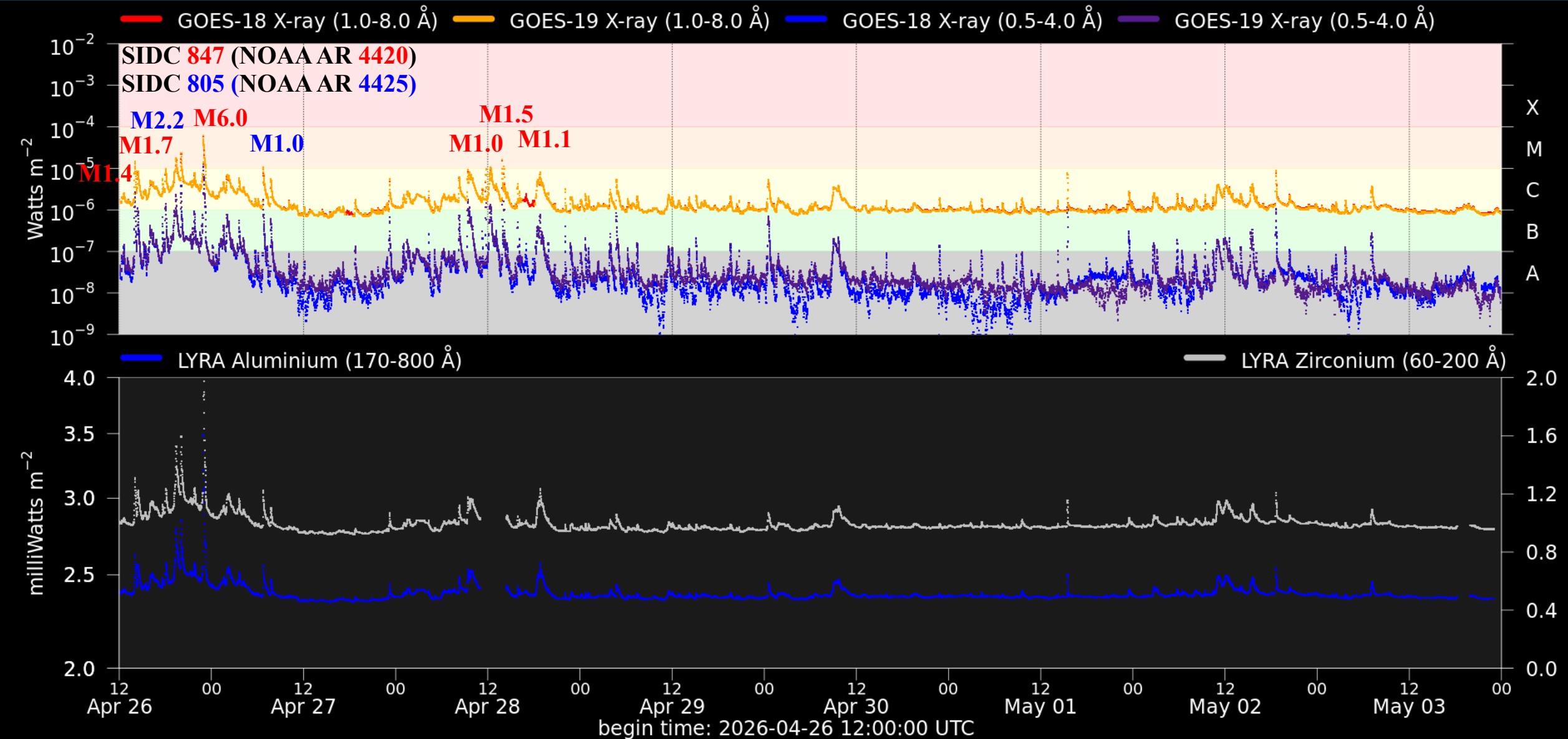
# Flaring activity



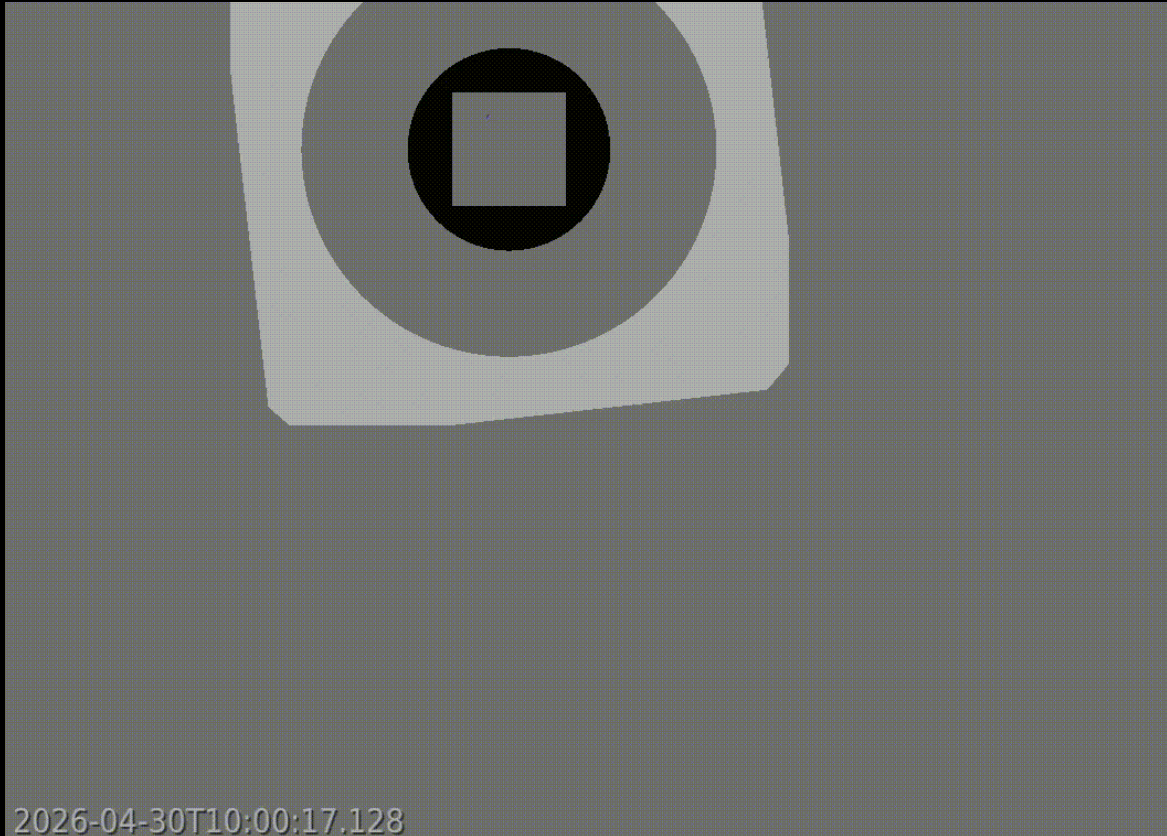
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2026-04-26	2026-04-27	2026-04-28	2026-04-29	2026-04-30	2026-05-01	2026-05-02	2026-05-03
Probability (%)	99 96 24	90 82 28	90 70 28	90 65 30	90 60 30	90 65 30	90 55 01	90 55 01
Observed (#)	13 05 00	10 00 00	15 02 00	10 00 00	05 00 00	08 00 00	09 00 00	00 01 00

# Solar X-Ray and UV flux

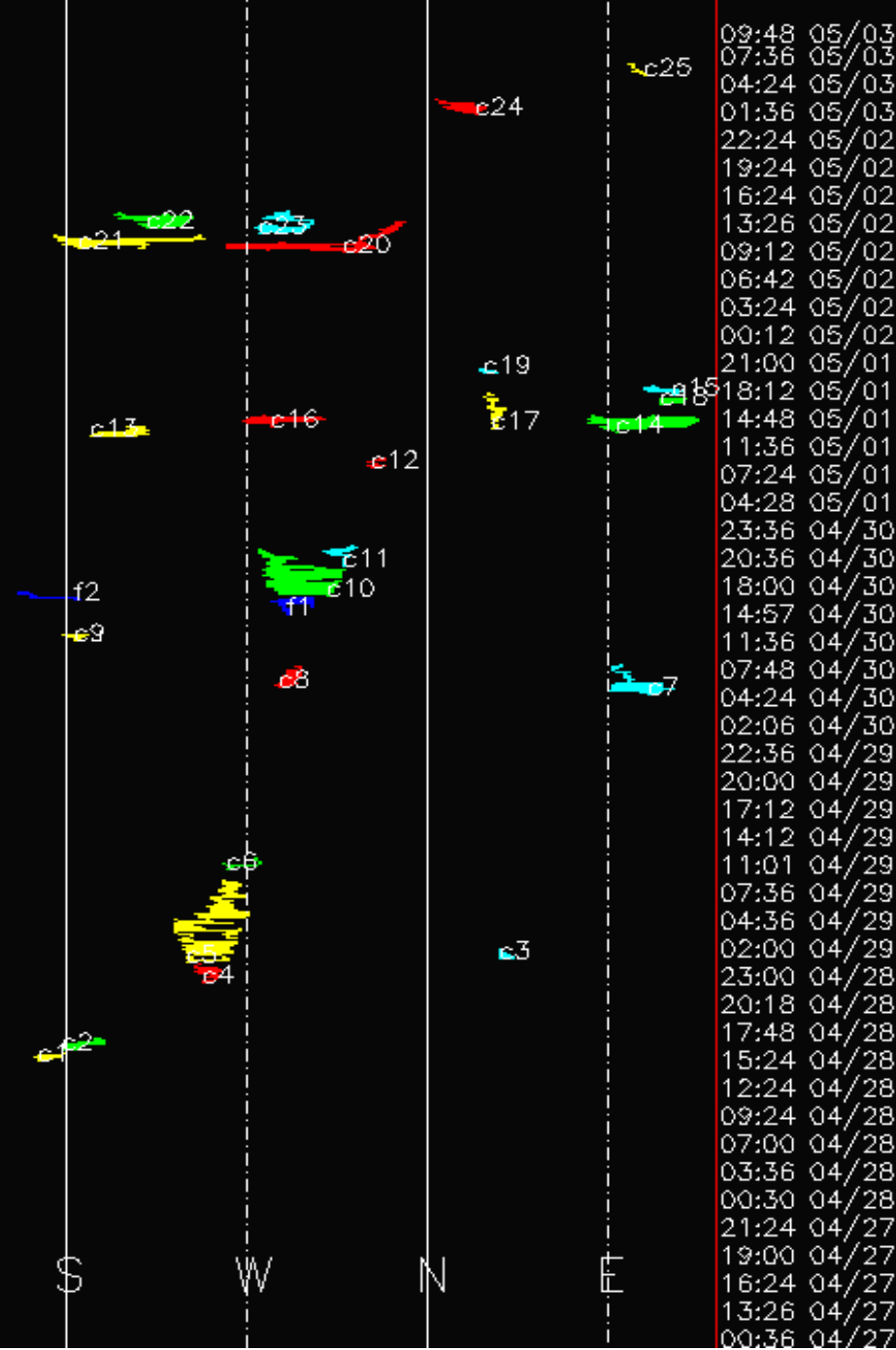


# Coronal Mass Ejections

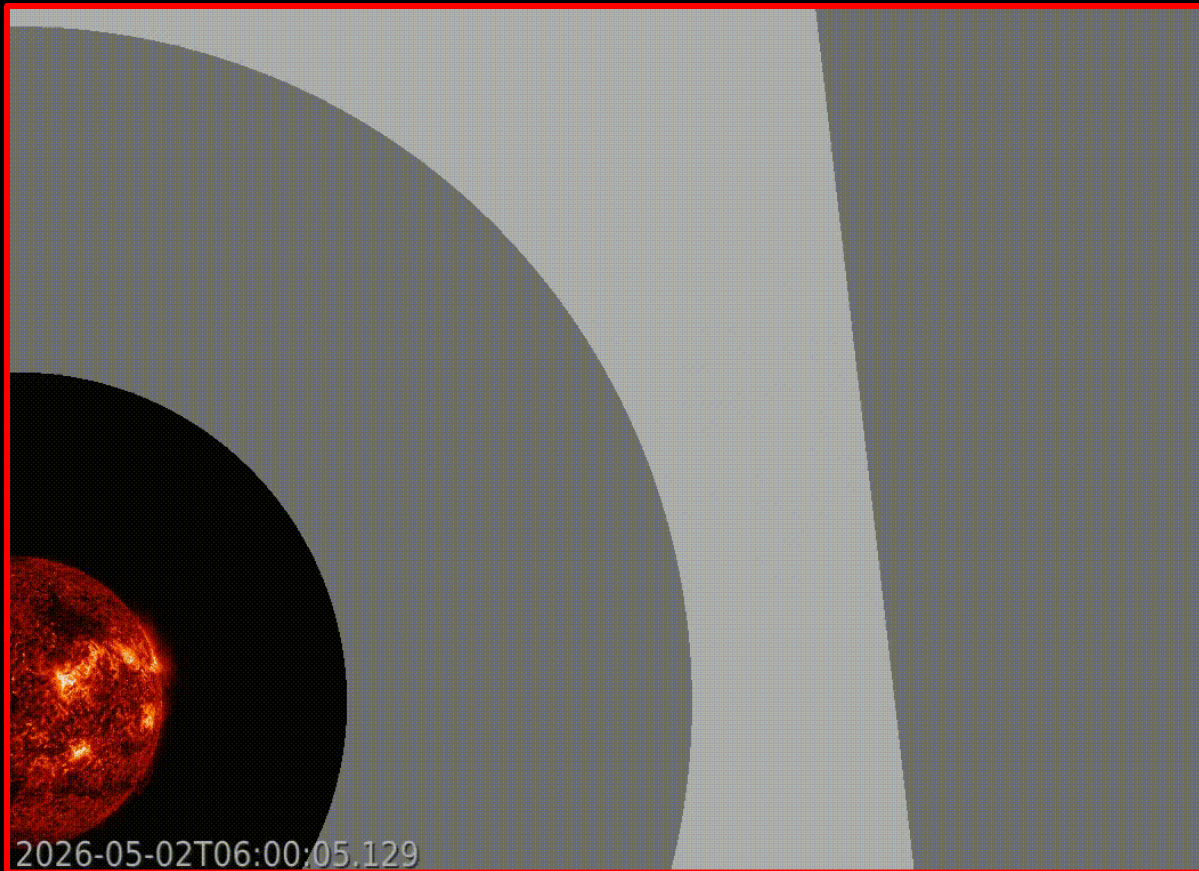


**CME Observation:** 12:30 UTC & 18:30 UTC on Apr 30  
Speed = ~250 km/s

**Prediction:** No significant impact expected

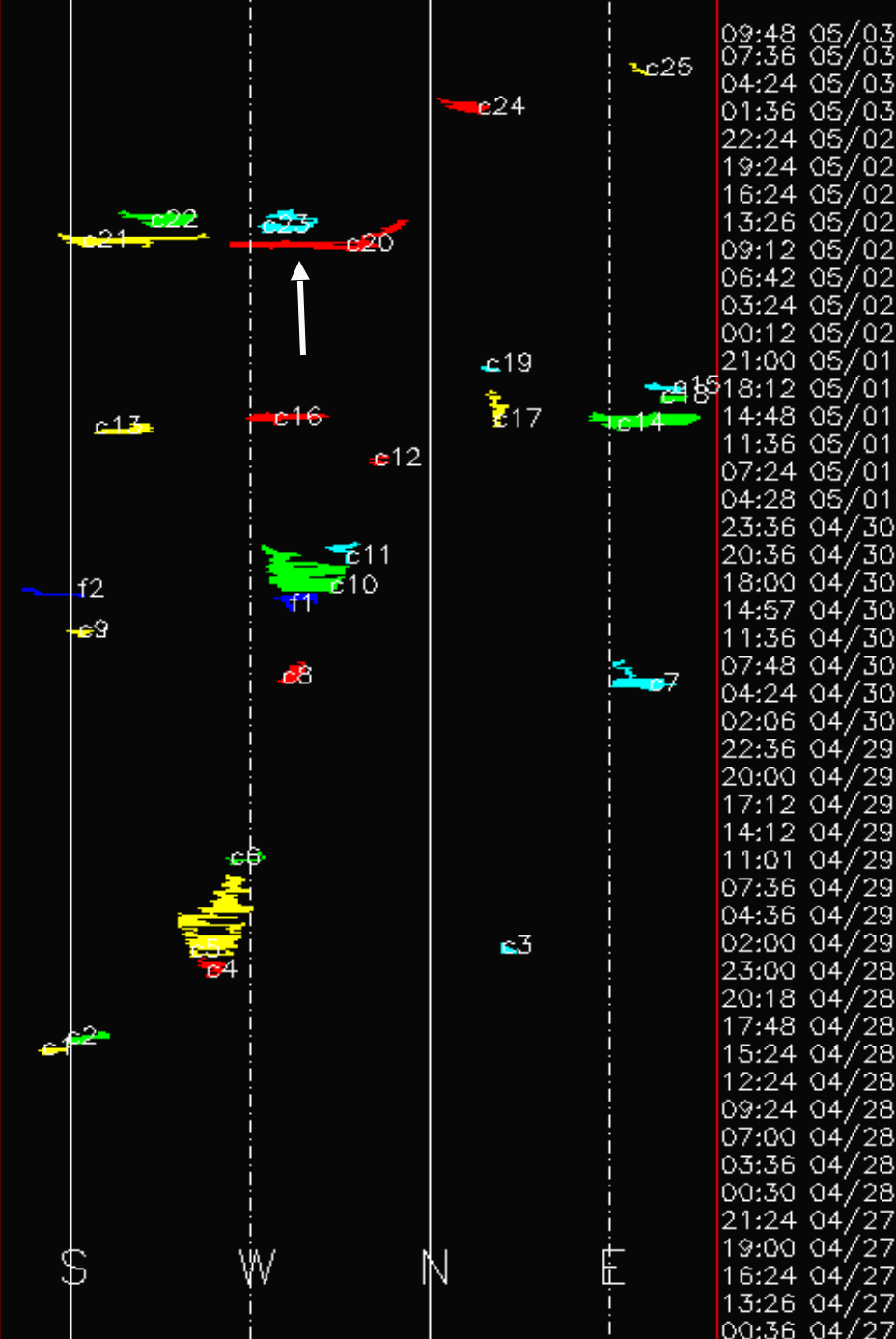


# Coronal Mass Ejections



**CME Observation:** 11:12 UTC on May 02  
Possibly associated with a small filament eruption on the NW limb.  
Associated with type II radio burst  
Speed = 425 km/s, Ang. width = ~90 deg

**Prediction:** No impact expected



Solar Wind and

# Geomagnetic Activity



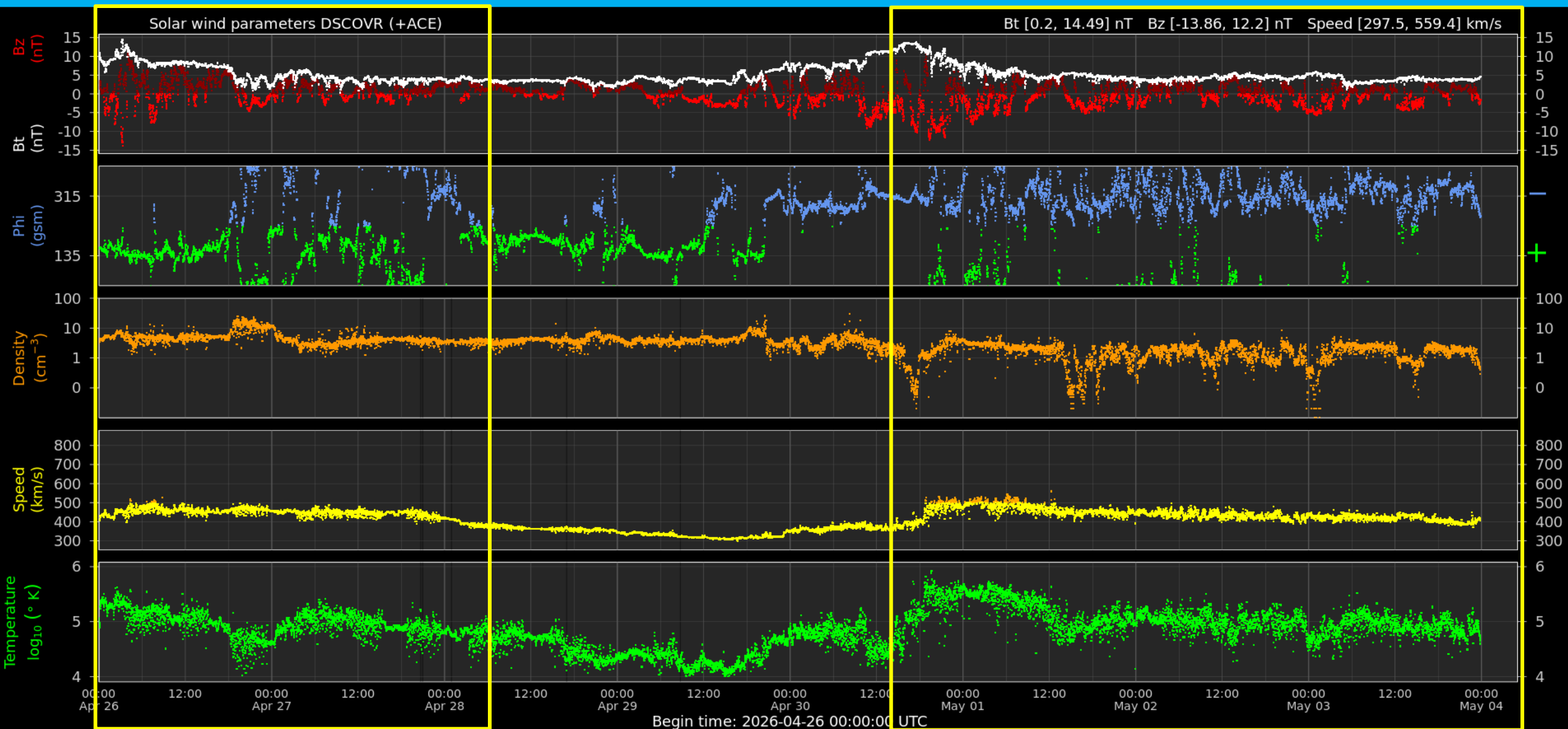
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# Solar wind parameters

HSS: CH+ 156 & 157

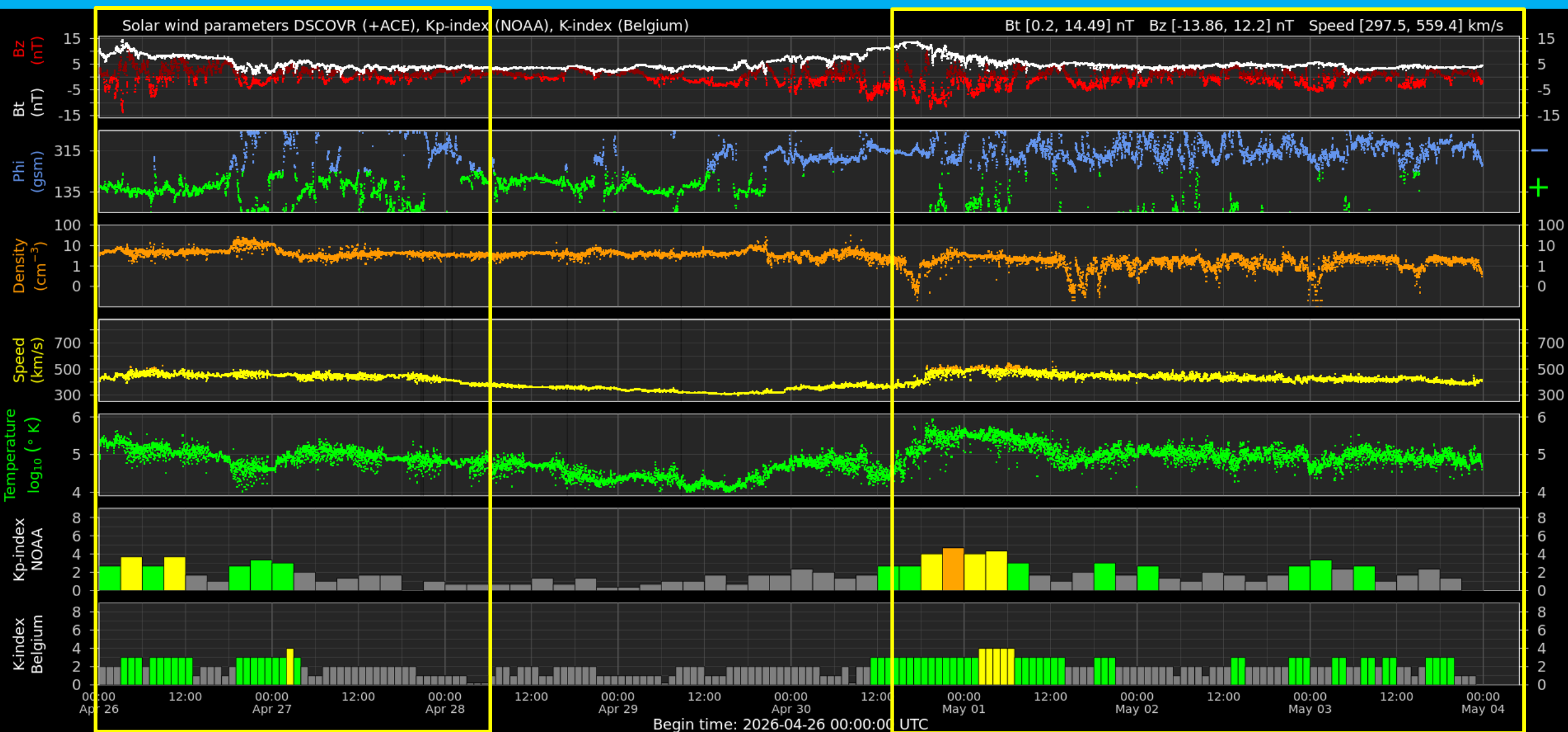
HSS: CH- 142



# Solar wind parameters & K-indices

HSS: CH+ 156 & 157

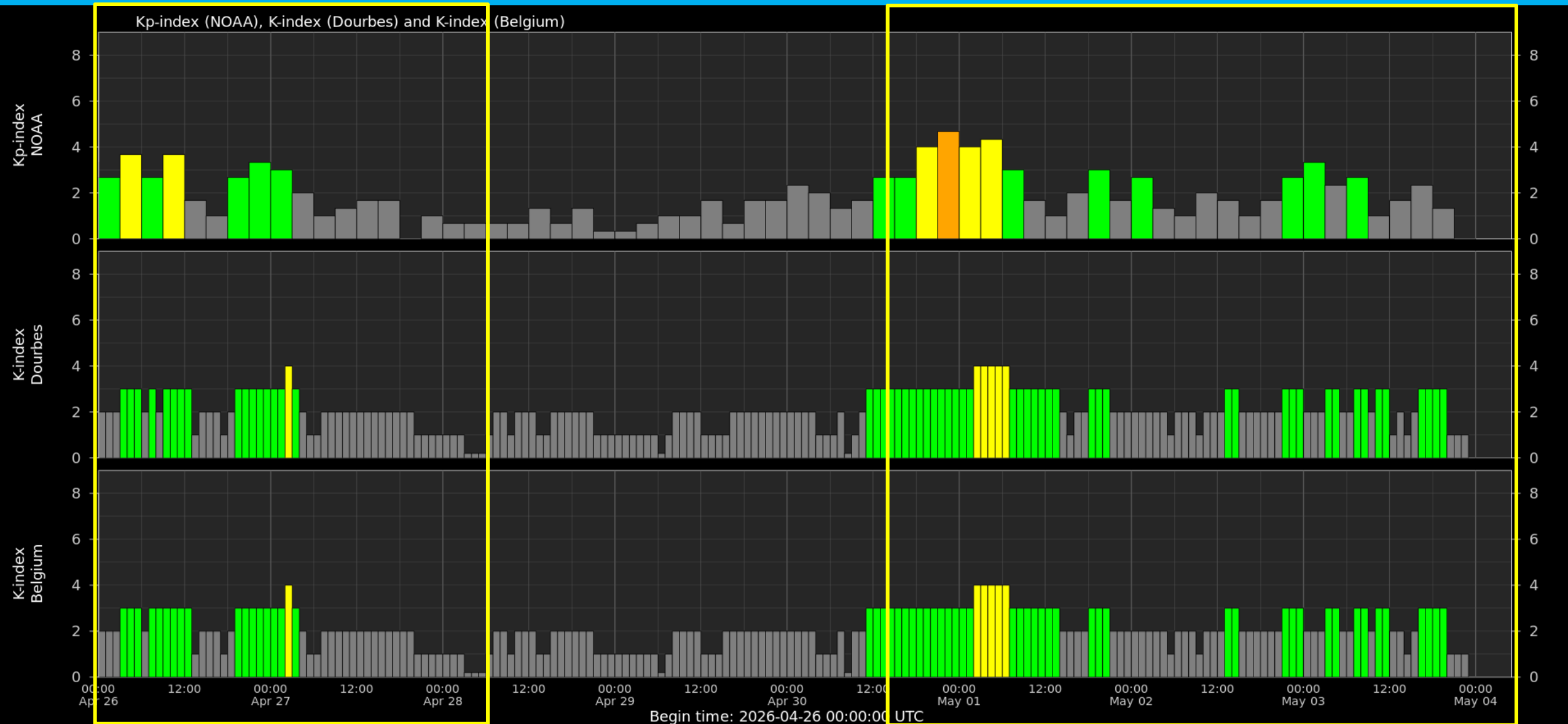
HSS: CH- 142



# Geomagnetic activity (K-indexes)

HSS: CH+ 156 & 157

HSS: CH- 142



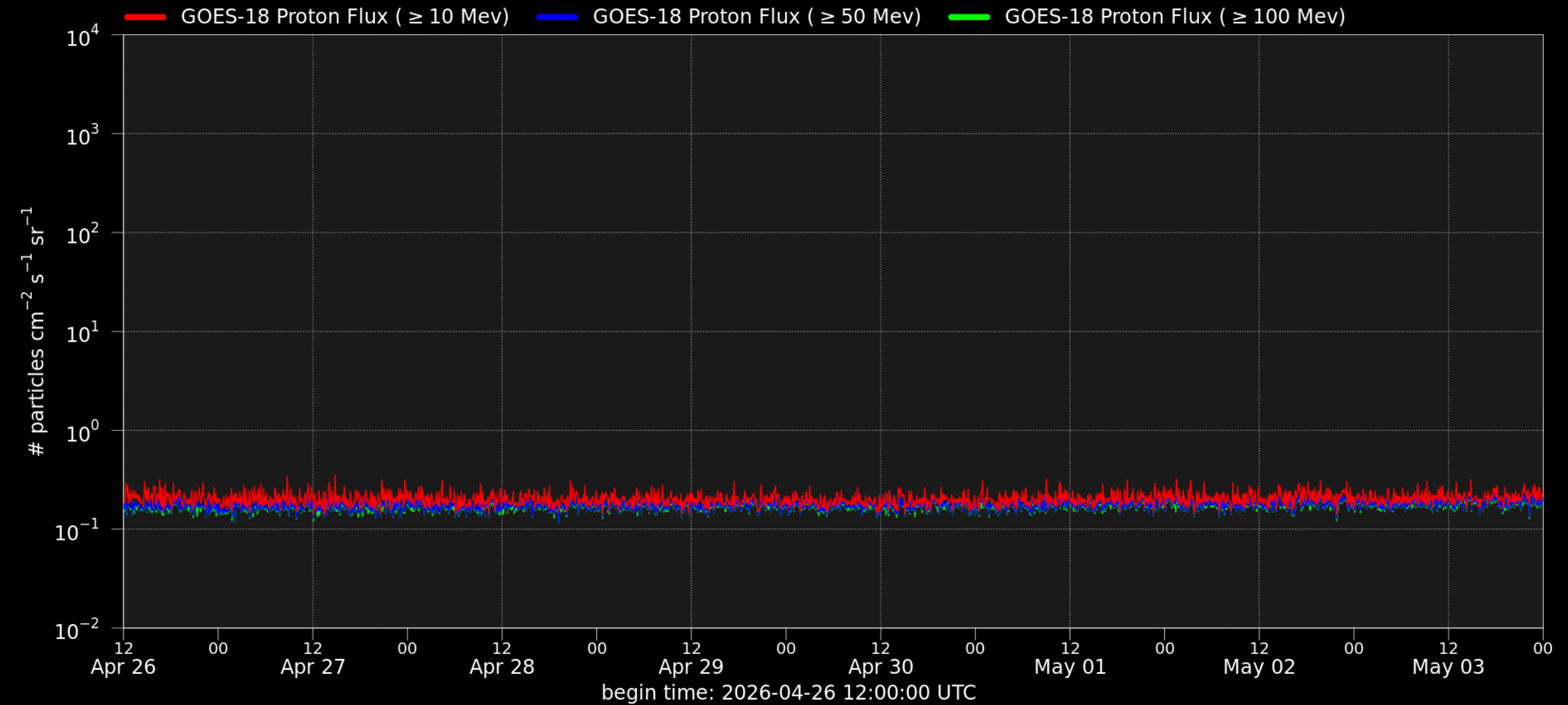
# Energetic Particles



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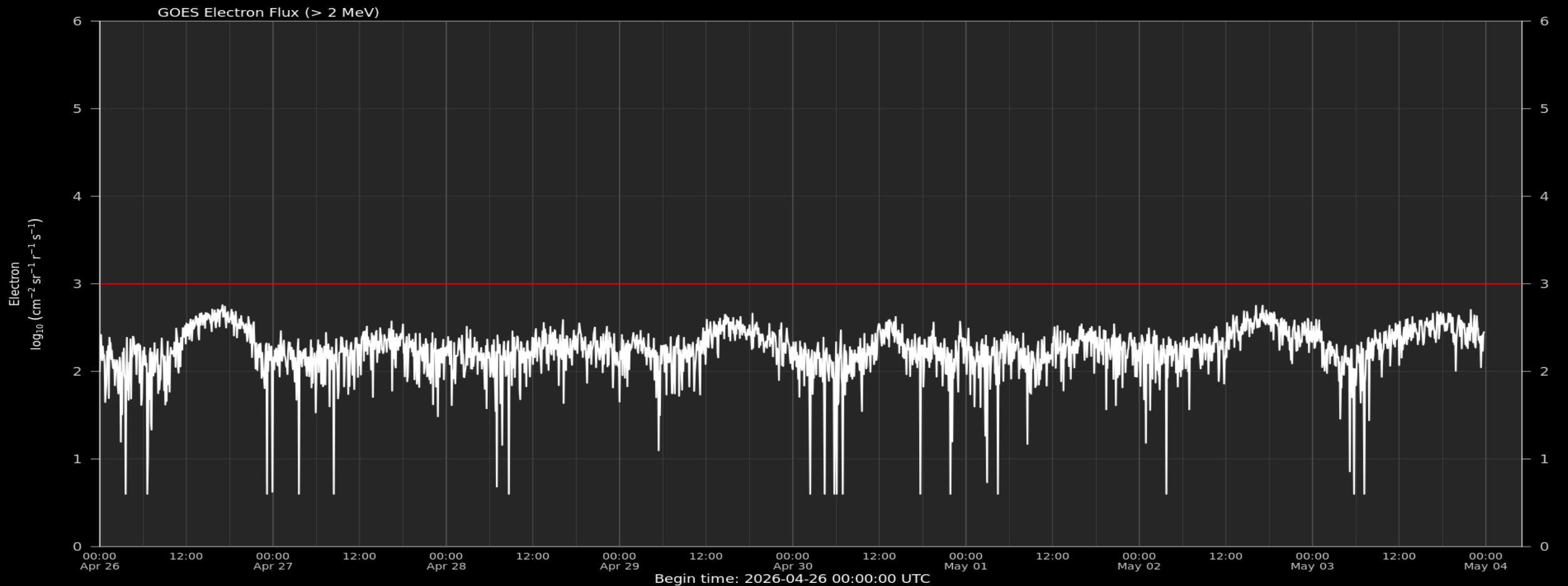
# Solar proton flux



# 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)



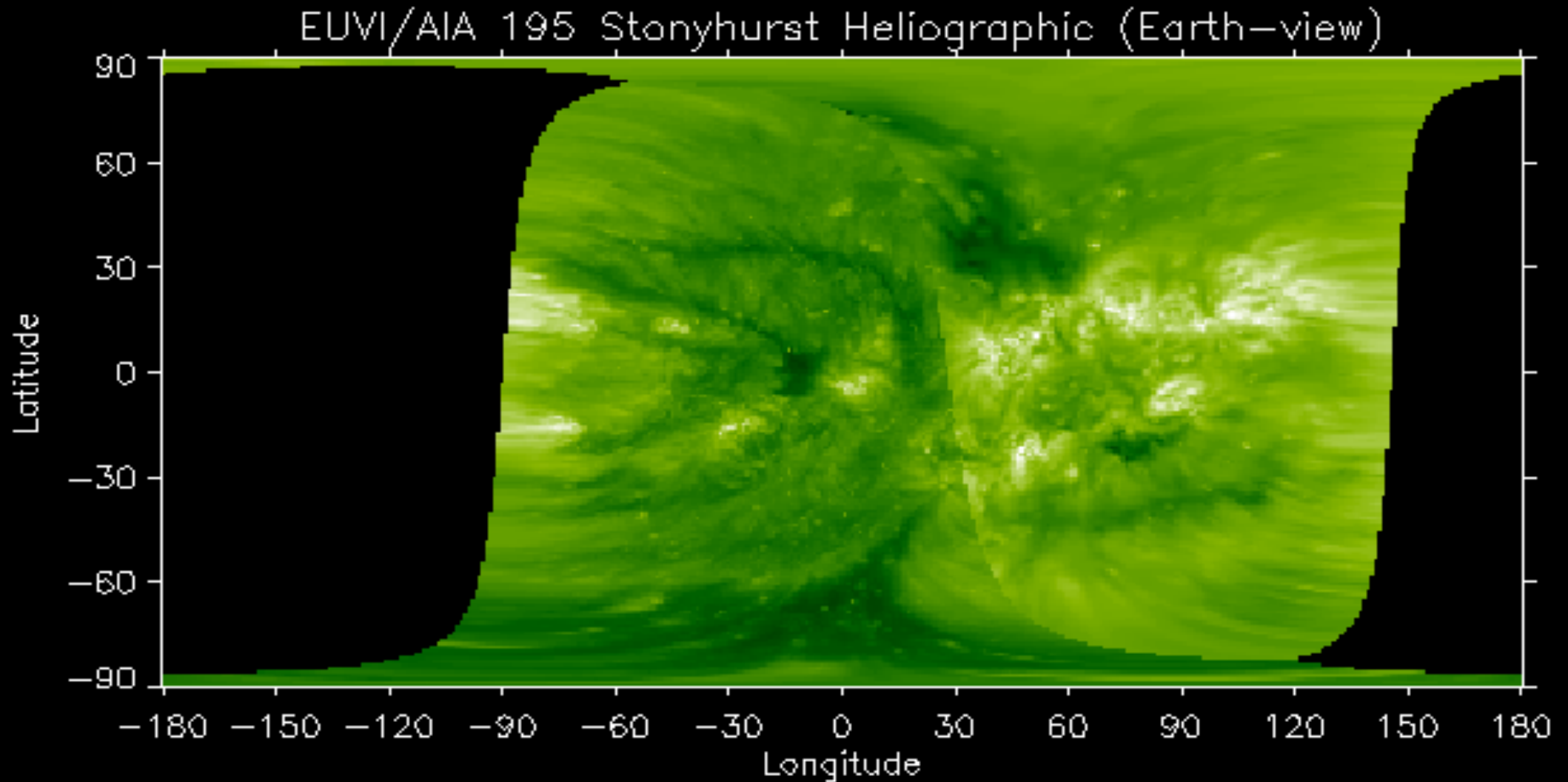
# Outlook



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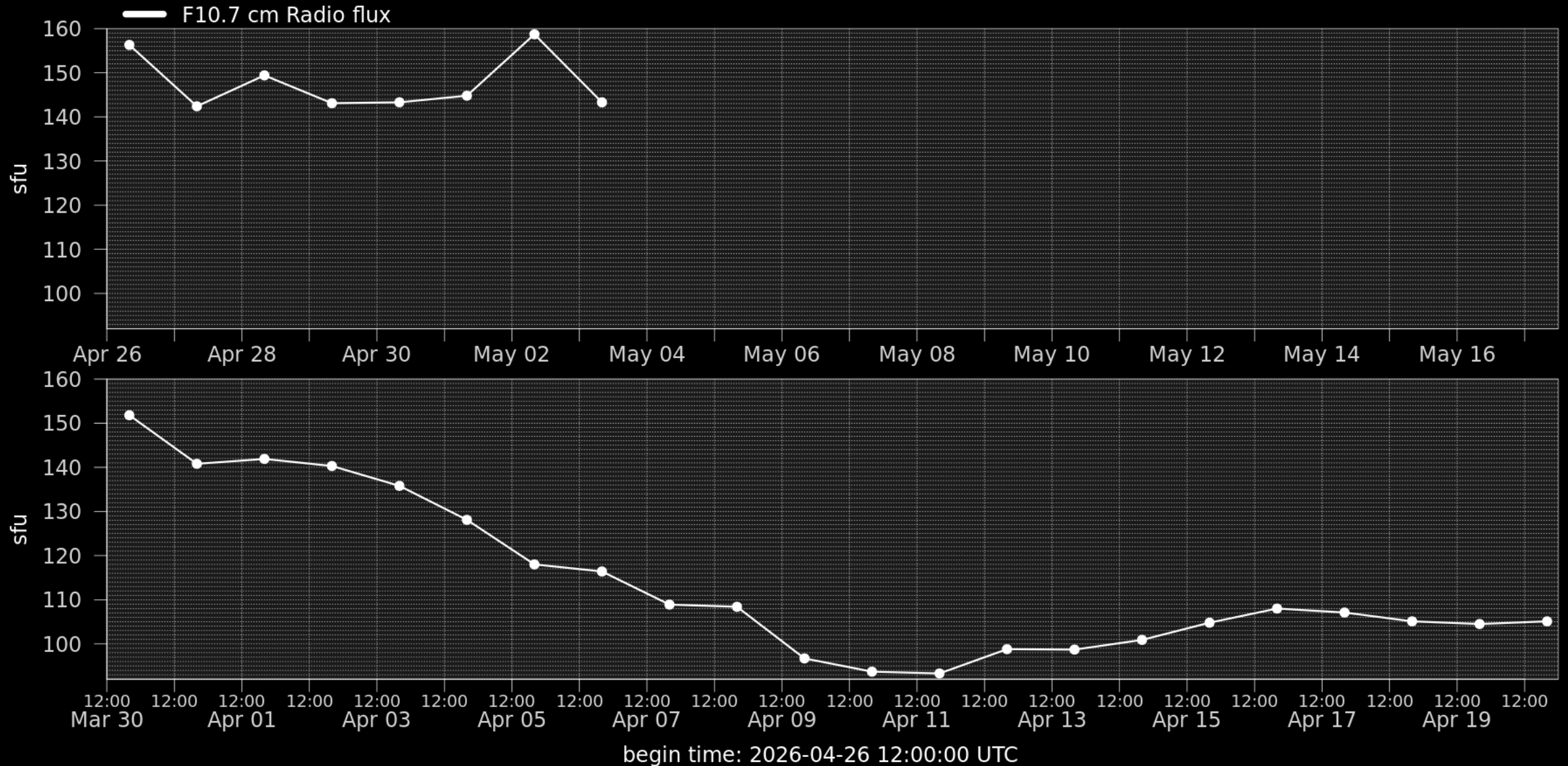
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Data analysis Centre  
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# Outlook: Solar activity

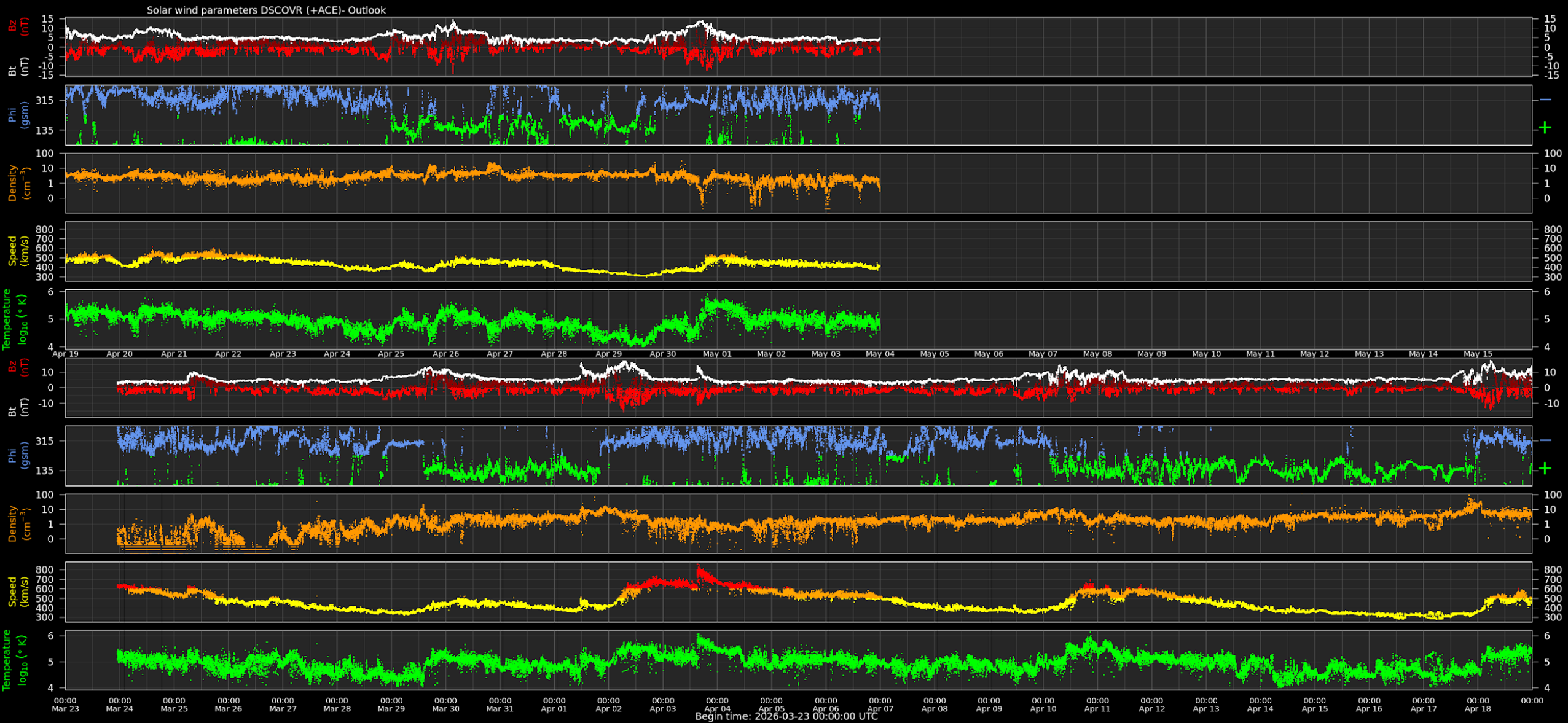


Observation date: 2026/05/03 20:35:00

# Outlook: Solar F10.7cm radio flux



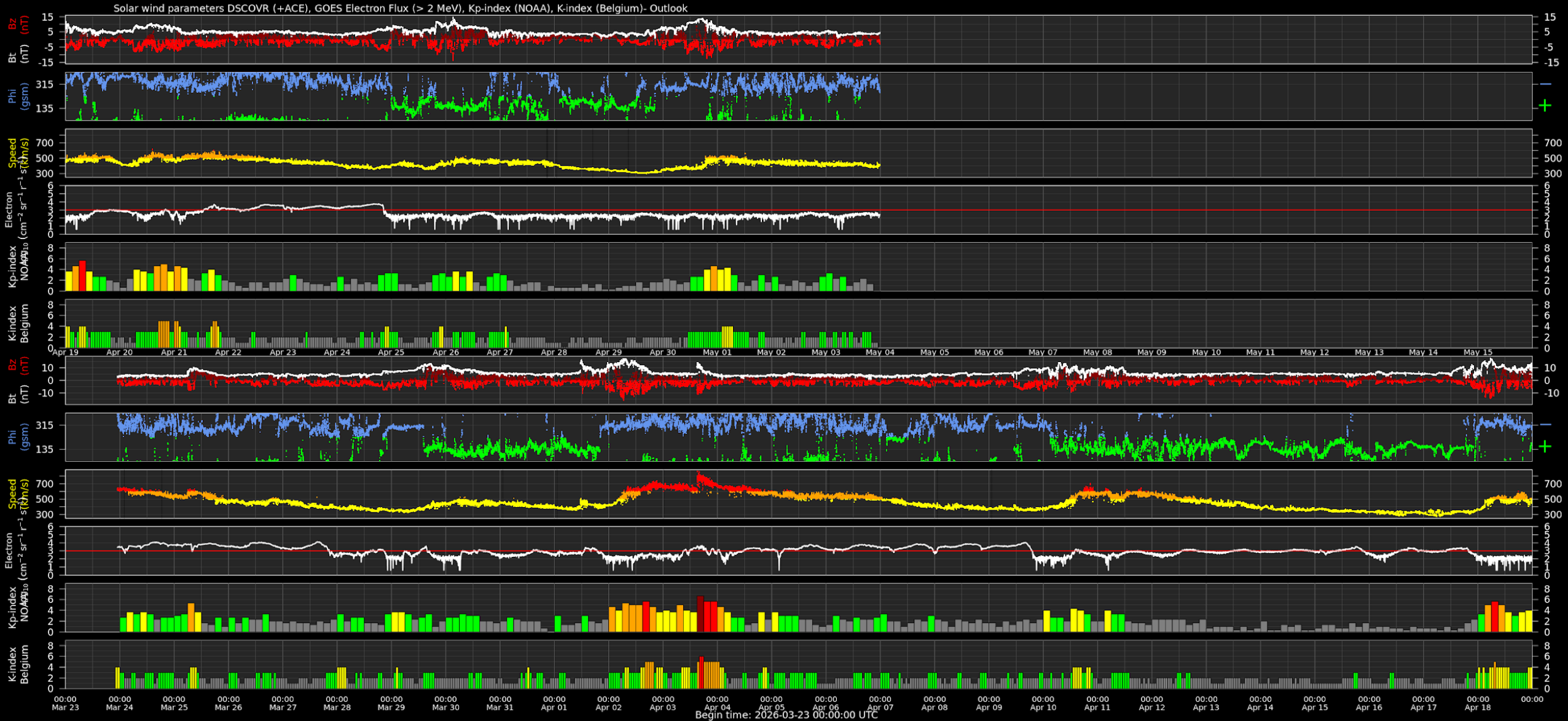
# Outlook: Solar wind parameters



# Outlook: Geomagnetic activity



# Outlook: Electron Flux at GEO Outlook



PECASUS



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# Pecarus related events

GNSS Scintillation 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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