

SIDC Space Weather Briefing

05 January -11 January 2026

Daria Shukhobodskaia & the SIDC forecaster team



Royal Observatory

Solar Influences
Data analysis Centre
www.sidc.be

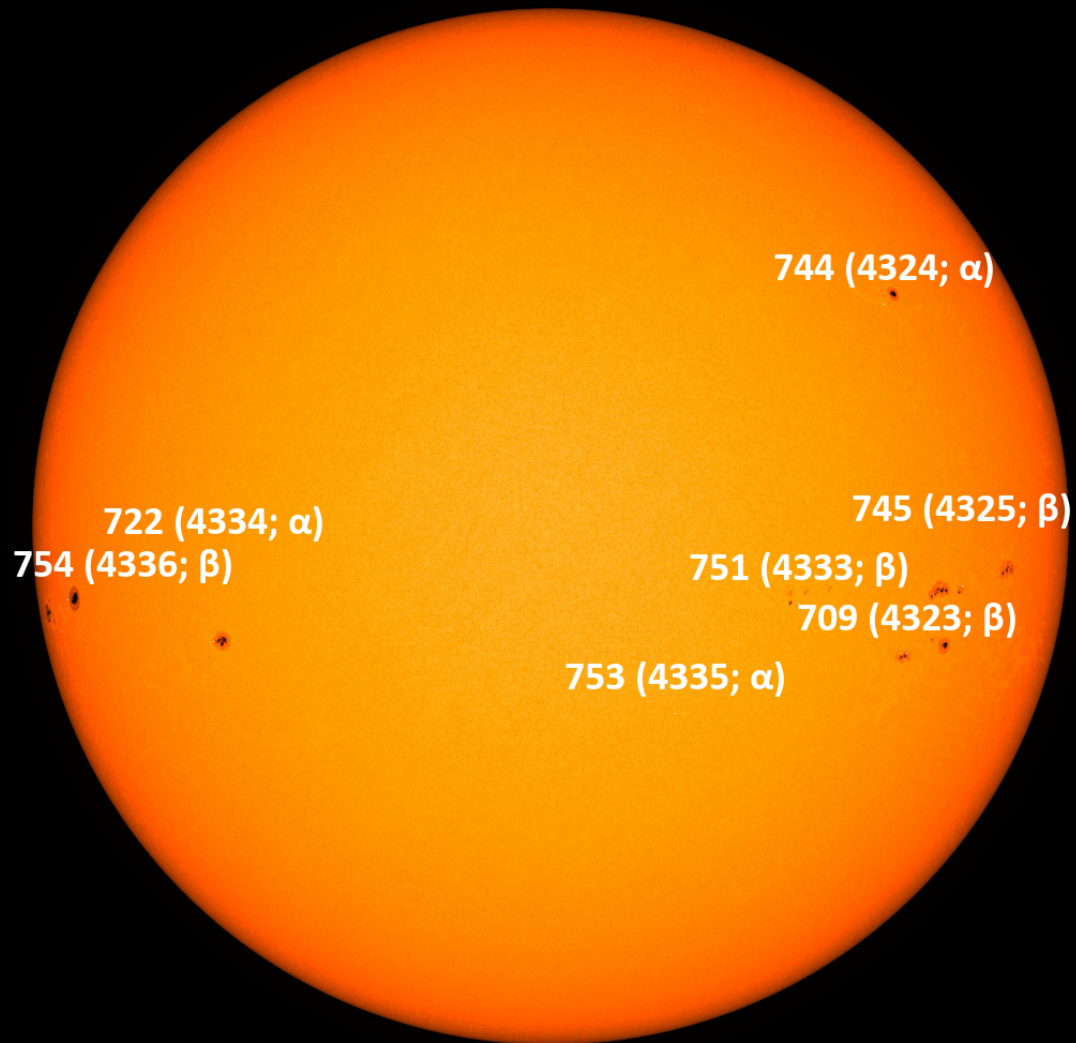
Summary Report

Active regions	13 SIDC Sunspot Groups: SIDC SG 722 (NOAA AR 4334), SIDC SG 754 (NOAA AR 4336)
Flares	# C-class flare: 51 # M-class flare: 1 # X-class flare: 0
Coronal Holes	Three negative polarities CHs
CMEs	2026-01-06T02:00:00 (SIDC CME 619), 2026-01-08T05:53:00 (SIDC CME 620), 2026-01-08T17:00:00 (SIDC CME 622)

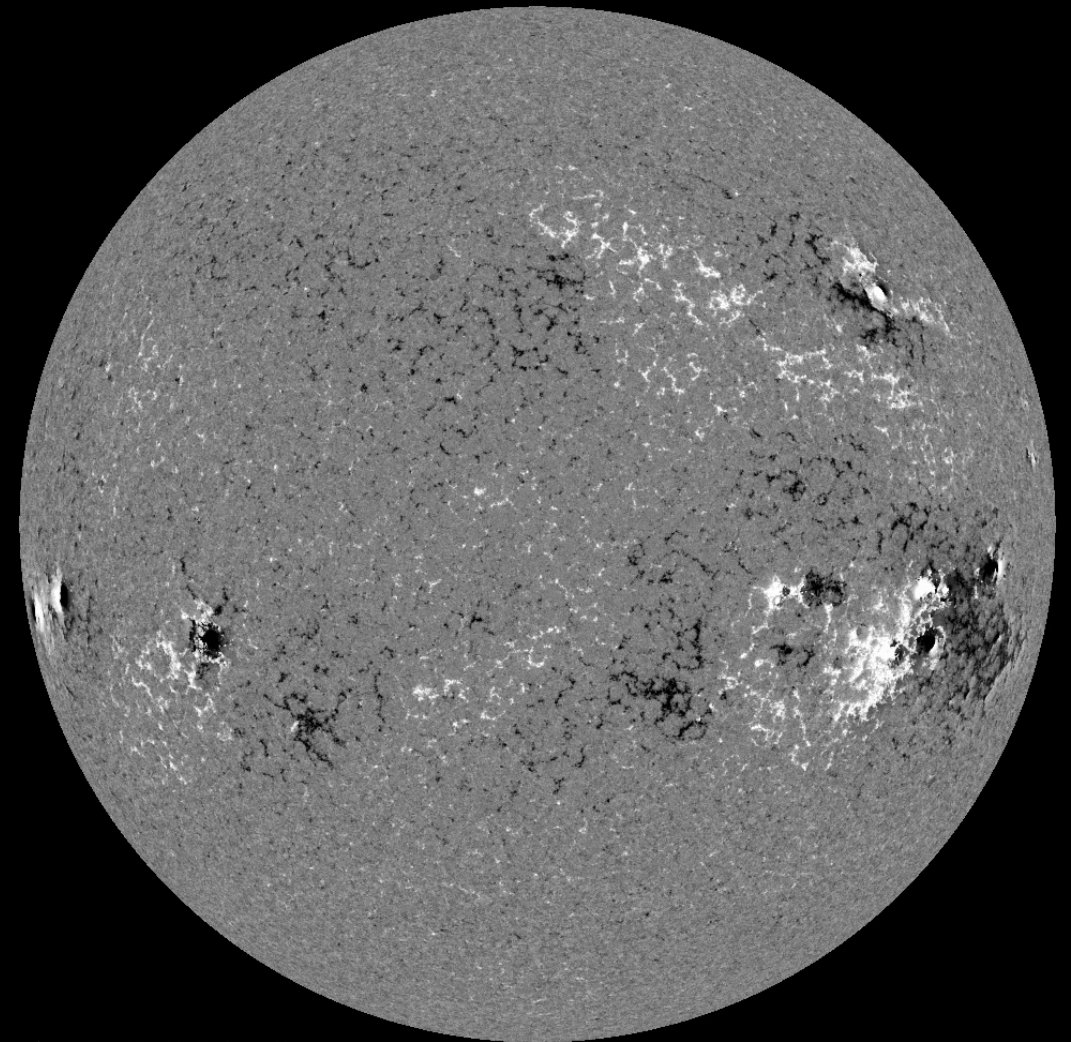
Proton flux	below the 10 pfu threshold
Electron flux	exceeded the 1000 pfu at the start of the week and on Jan 6-7 and Jan 10th

ICMEs	Several ICME arrivals on Jan 7- Jan 10
Solar wind conditions	B : 2.16 - 20.6 nT //Bz: -17.52 nT to 12.27 nT //Speed: 312.1 - 609.3km/s
Geomagnetic conditions	max K _{Be} : 5.0, max K _p (NOAA): 6.0, Moderate Storm conditions

Solar active regions

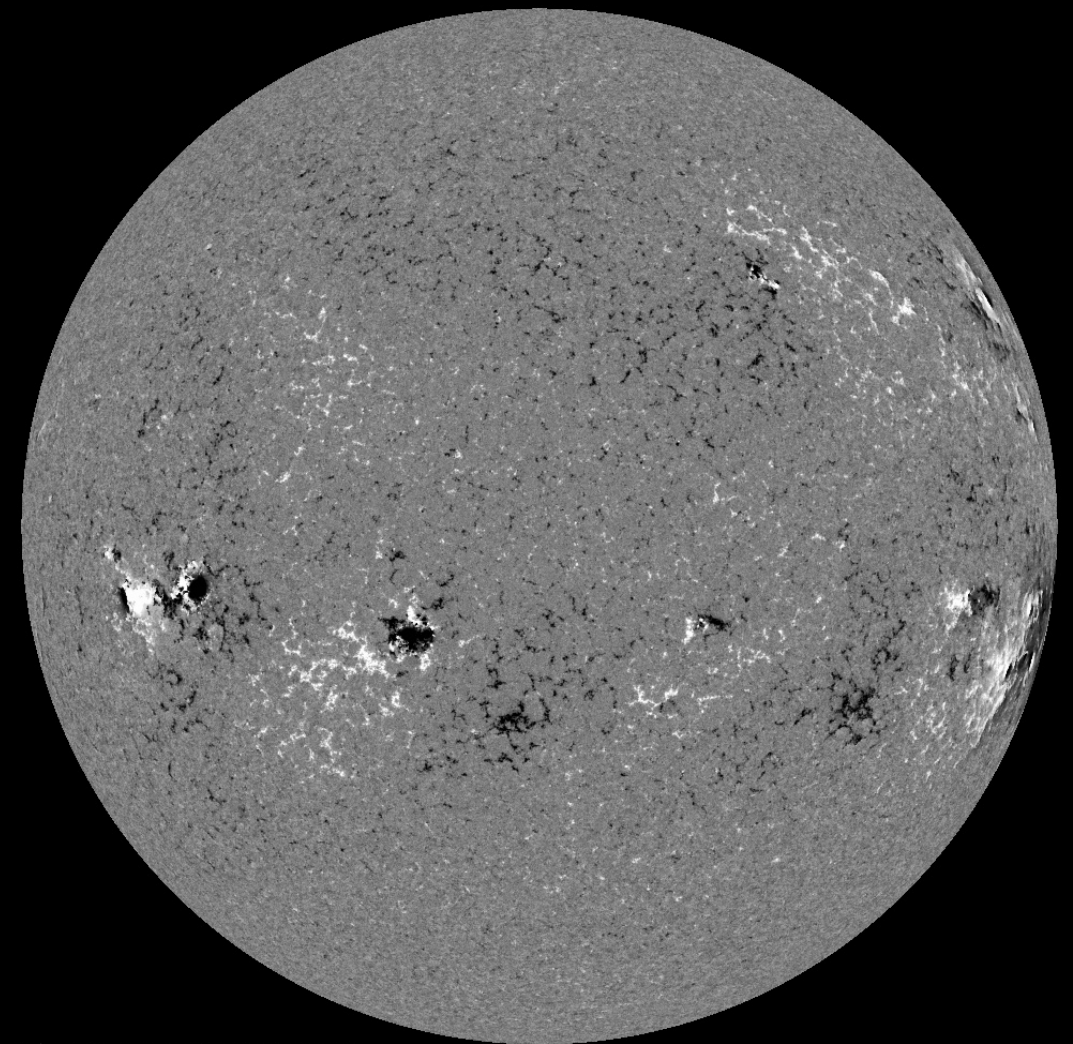
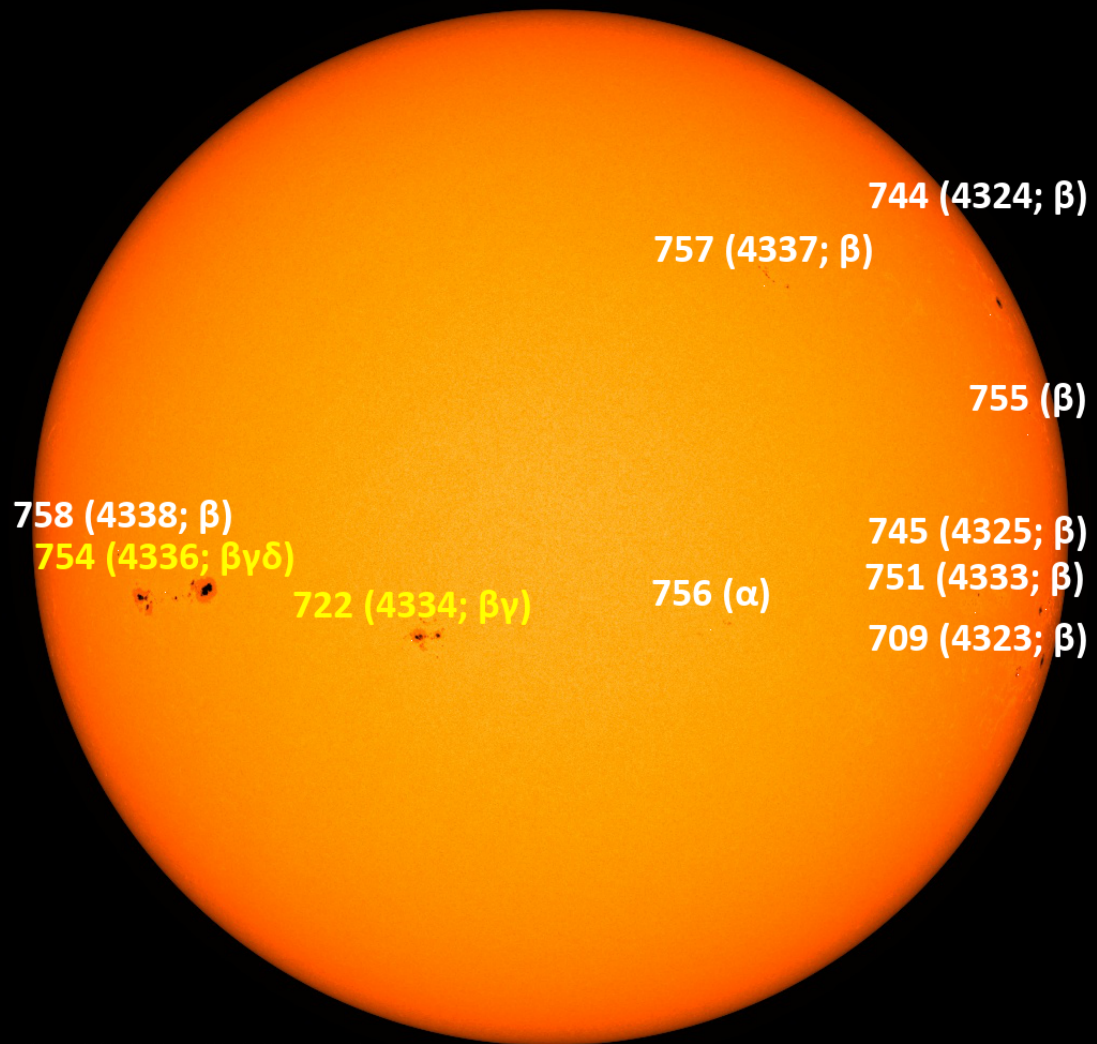


SDO/HMI Continuum: 20260105_120000

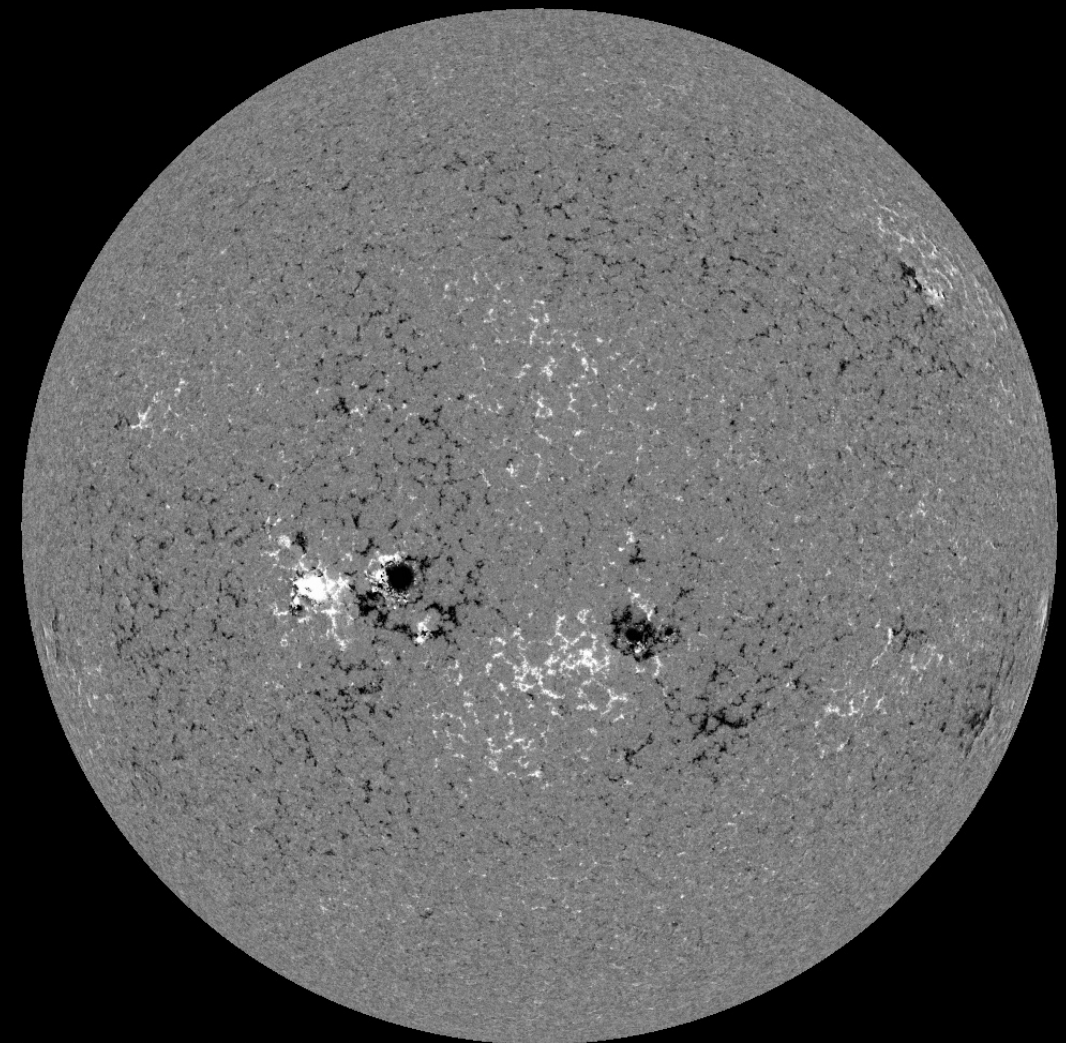
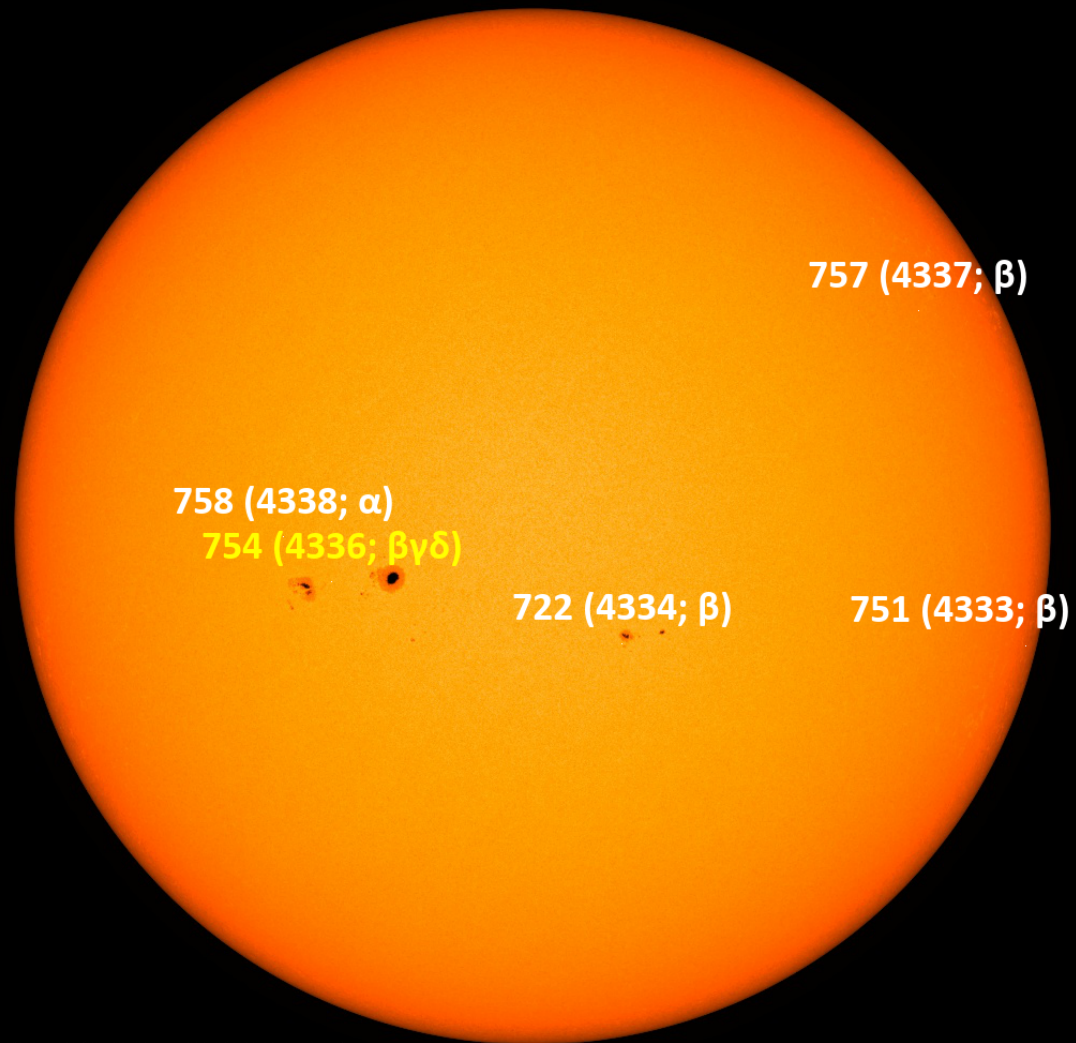


SDO/HMI Magnetogram: 20260105_120000

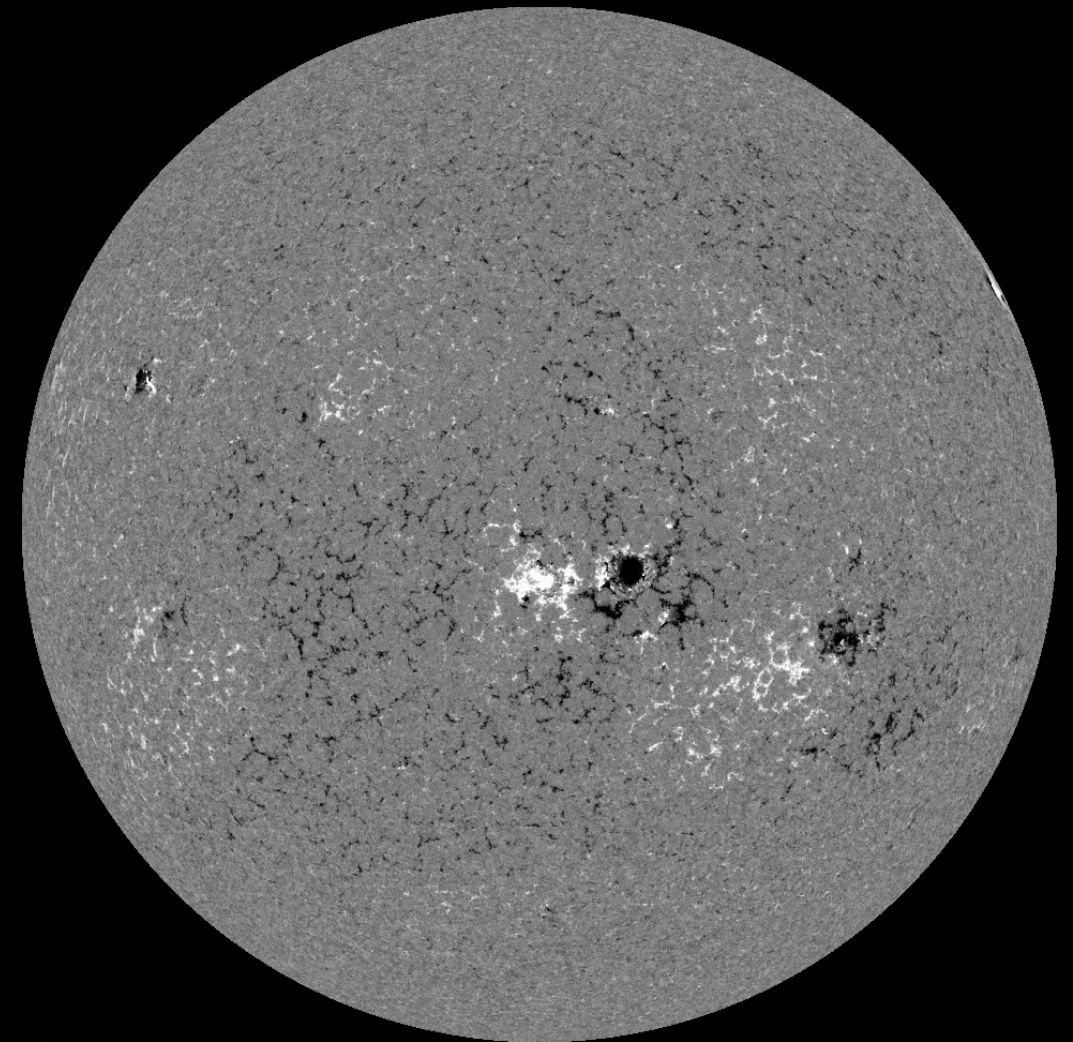
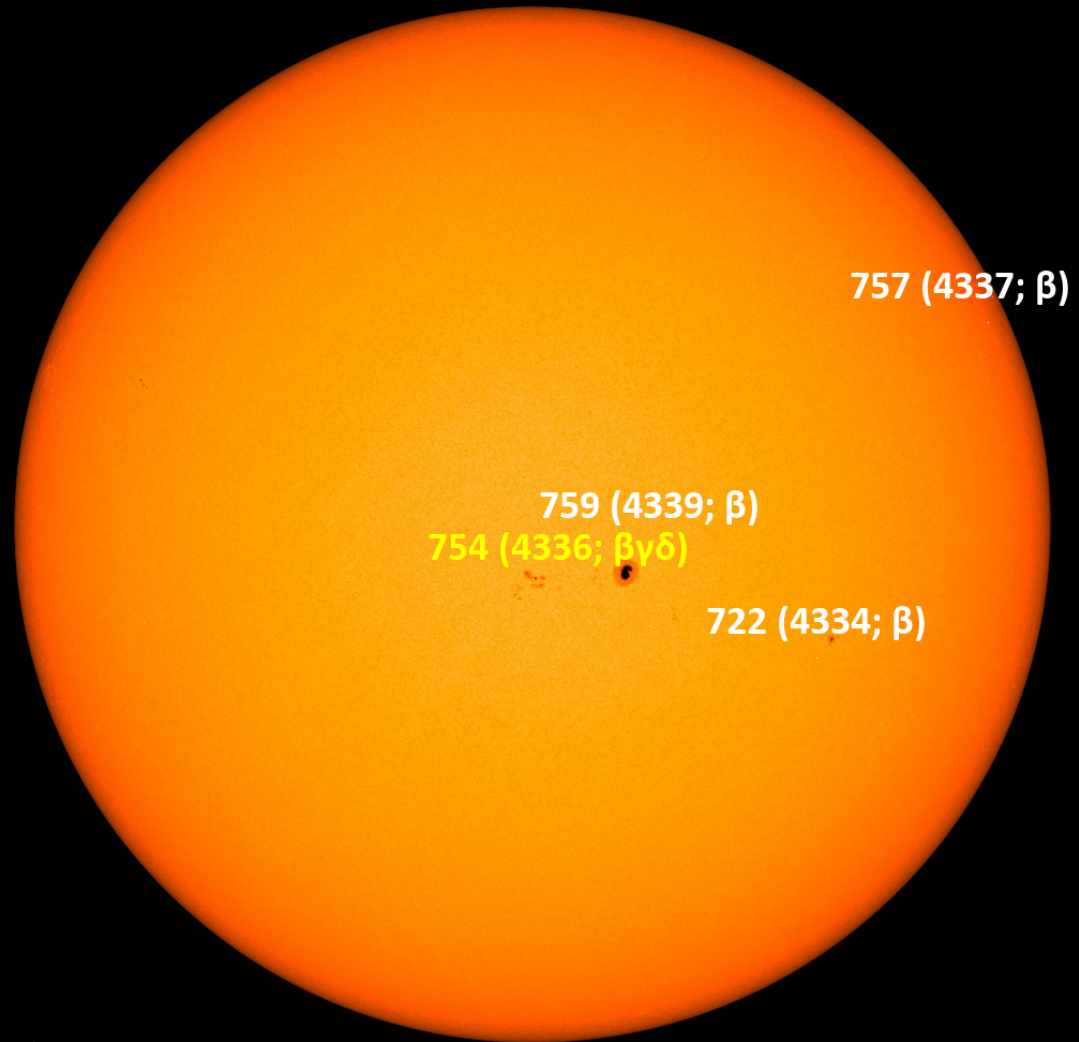
Solar active regions



Solar active regions

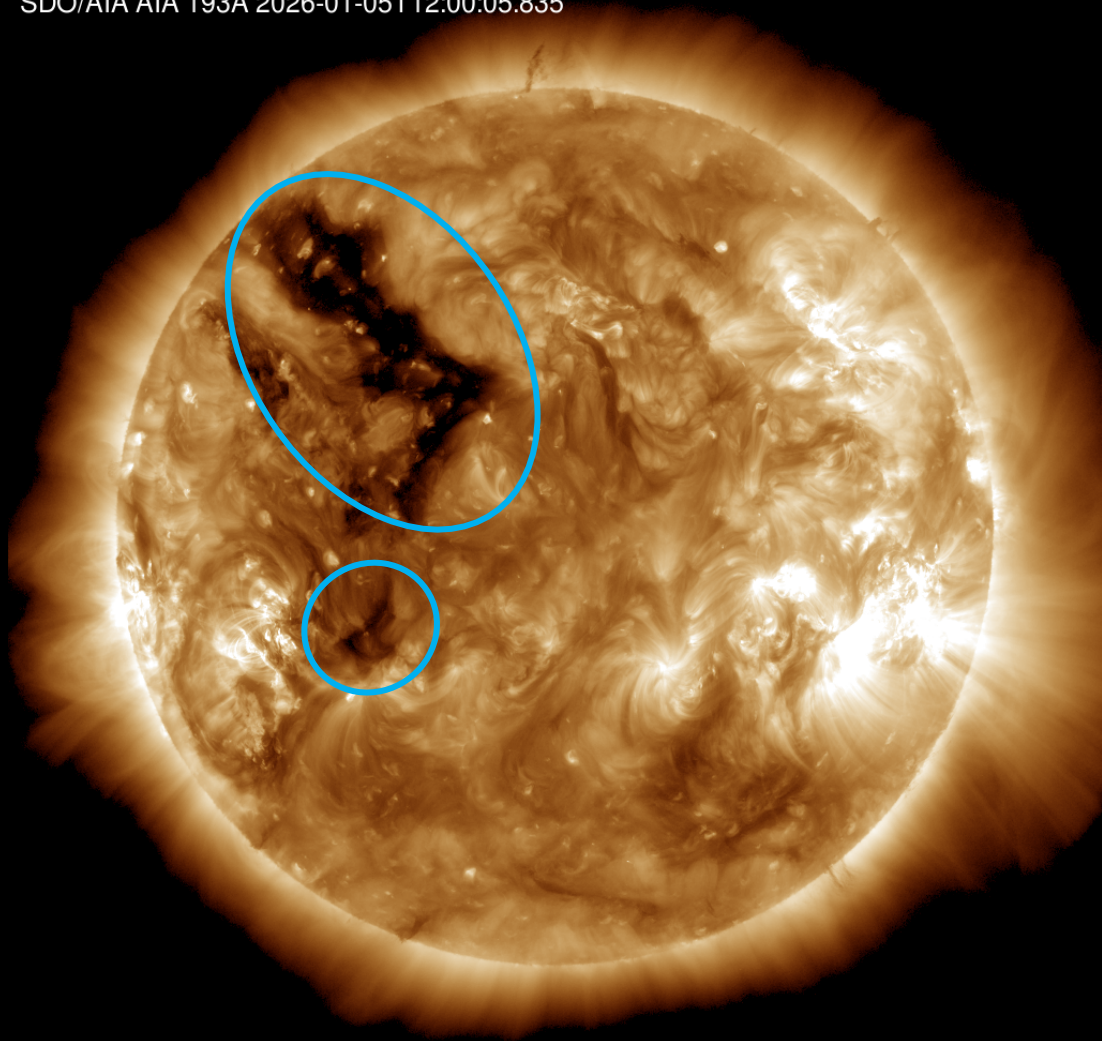


Solar active regions

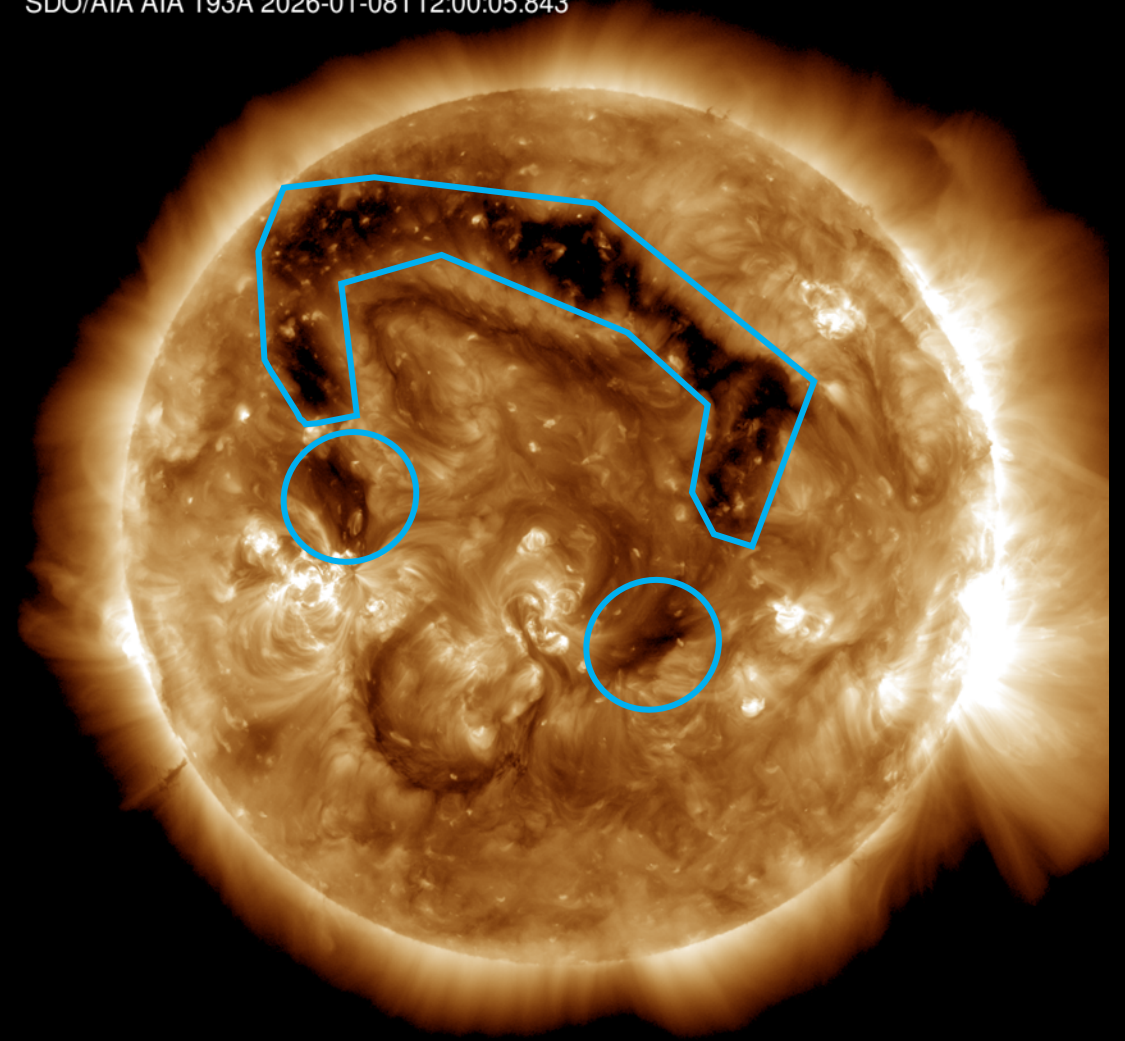


Coronal holes

SDO/AIA AIA 193Å 2026-01-05T12:00:05.835

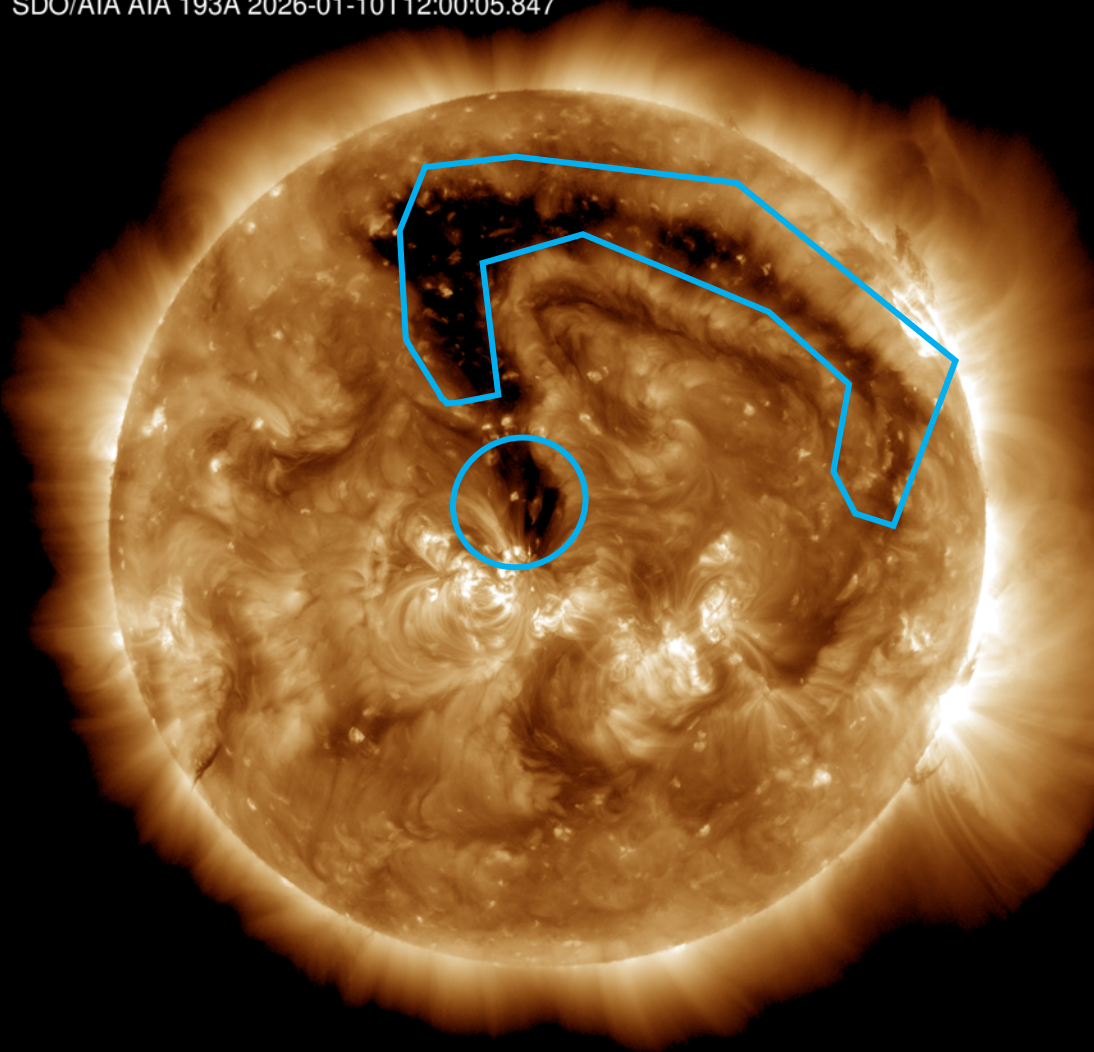


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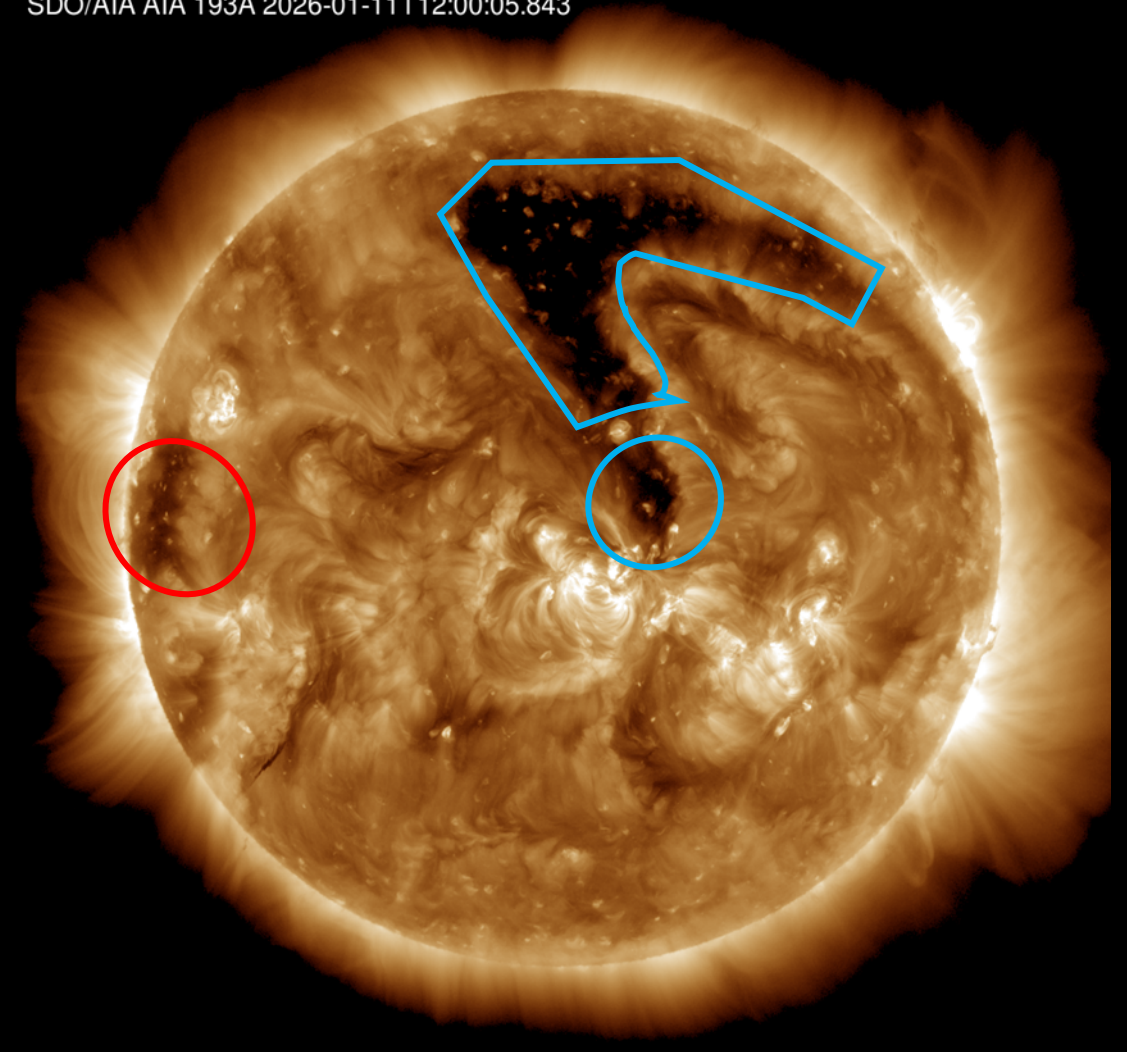


Coronal holes

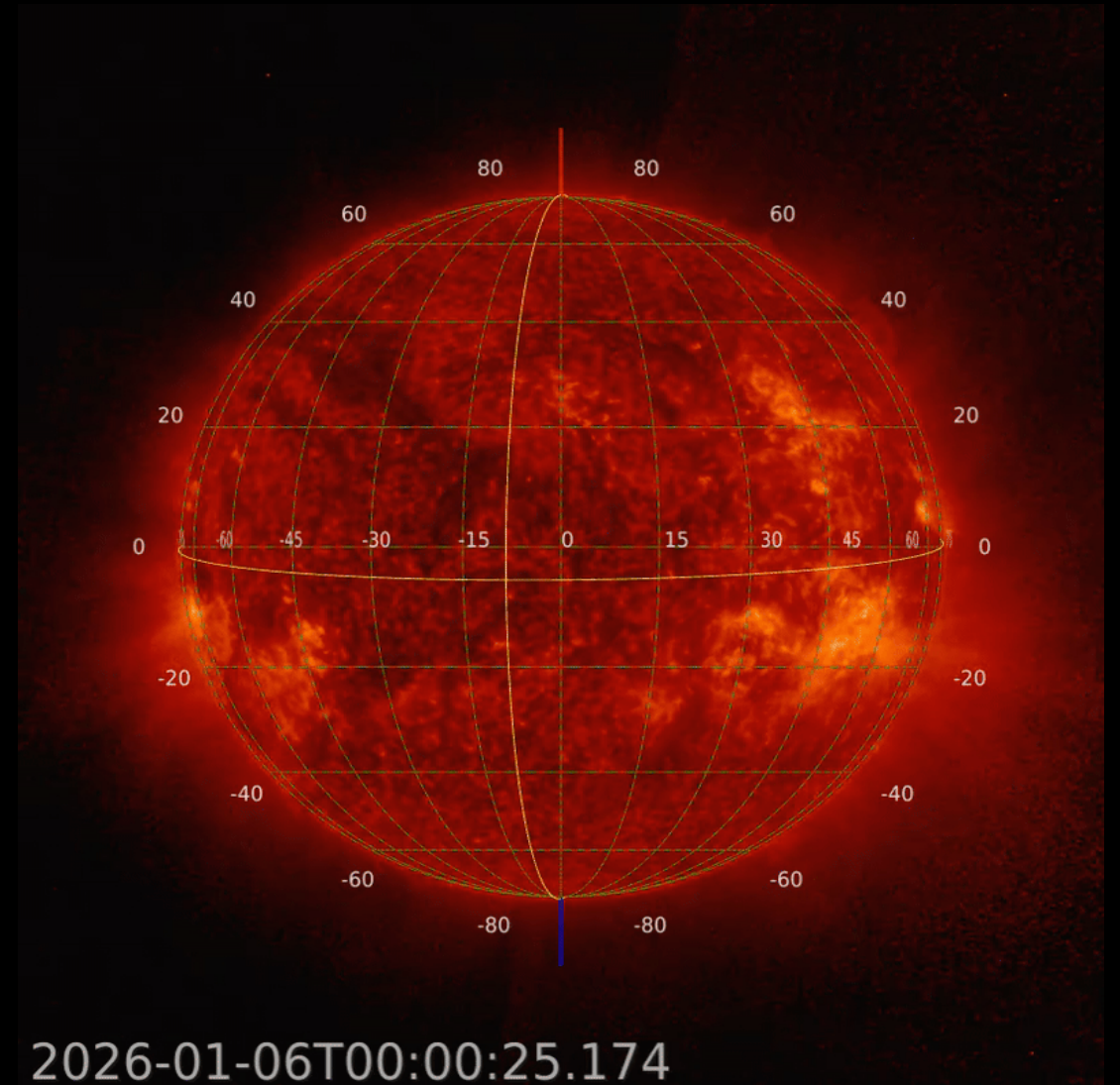
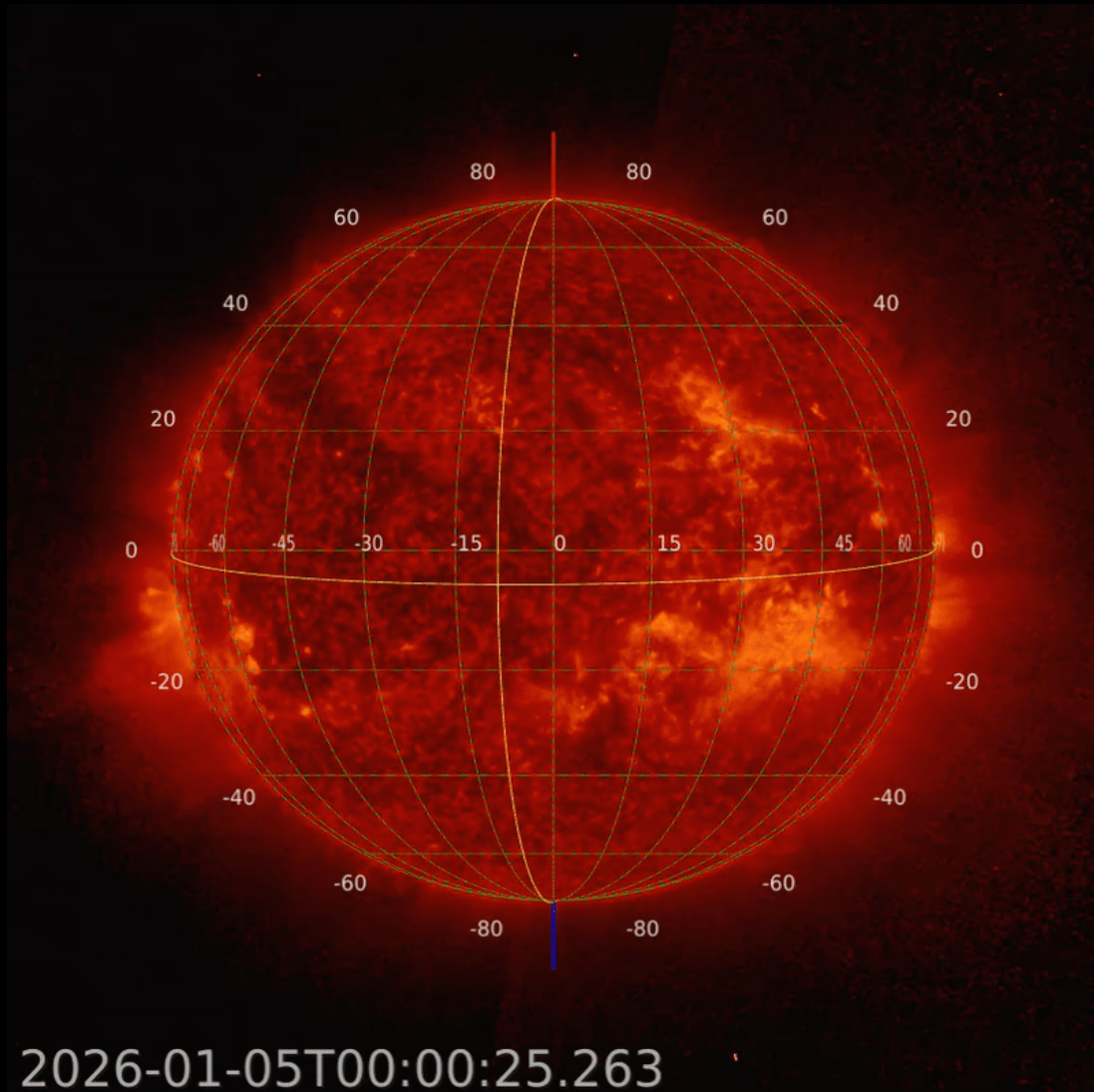
SDO/AIA AIA 193Å 2026-01-10T12:00:05.847



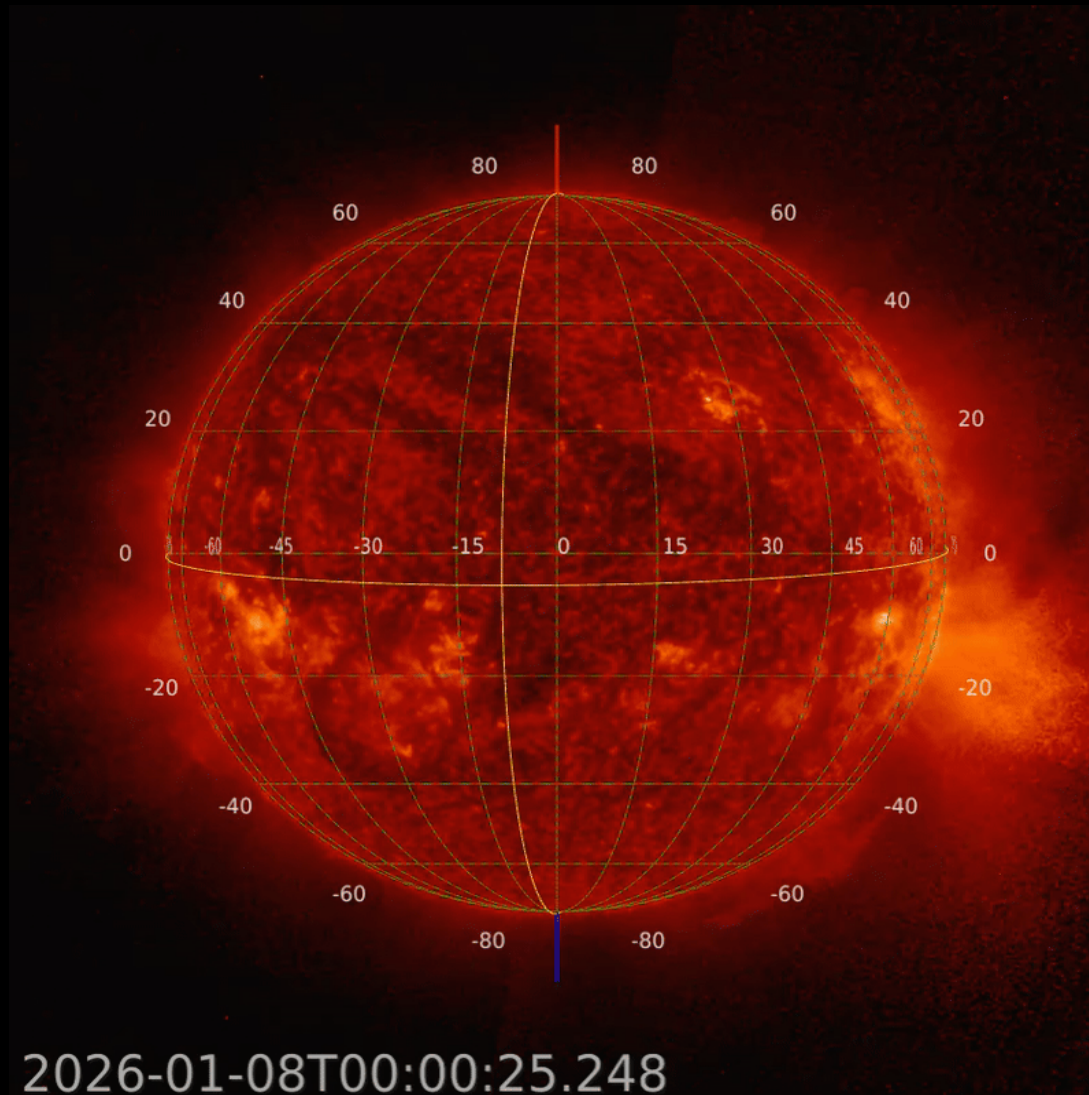
SDO/AIA AIA 193Å 2026-01-11T12:00:05.843



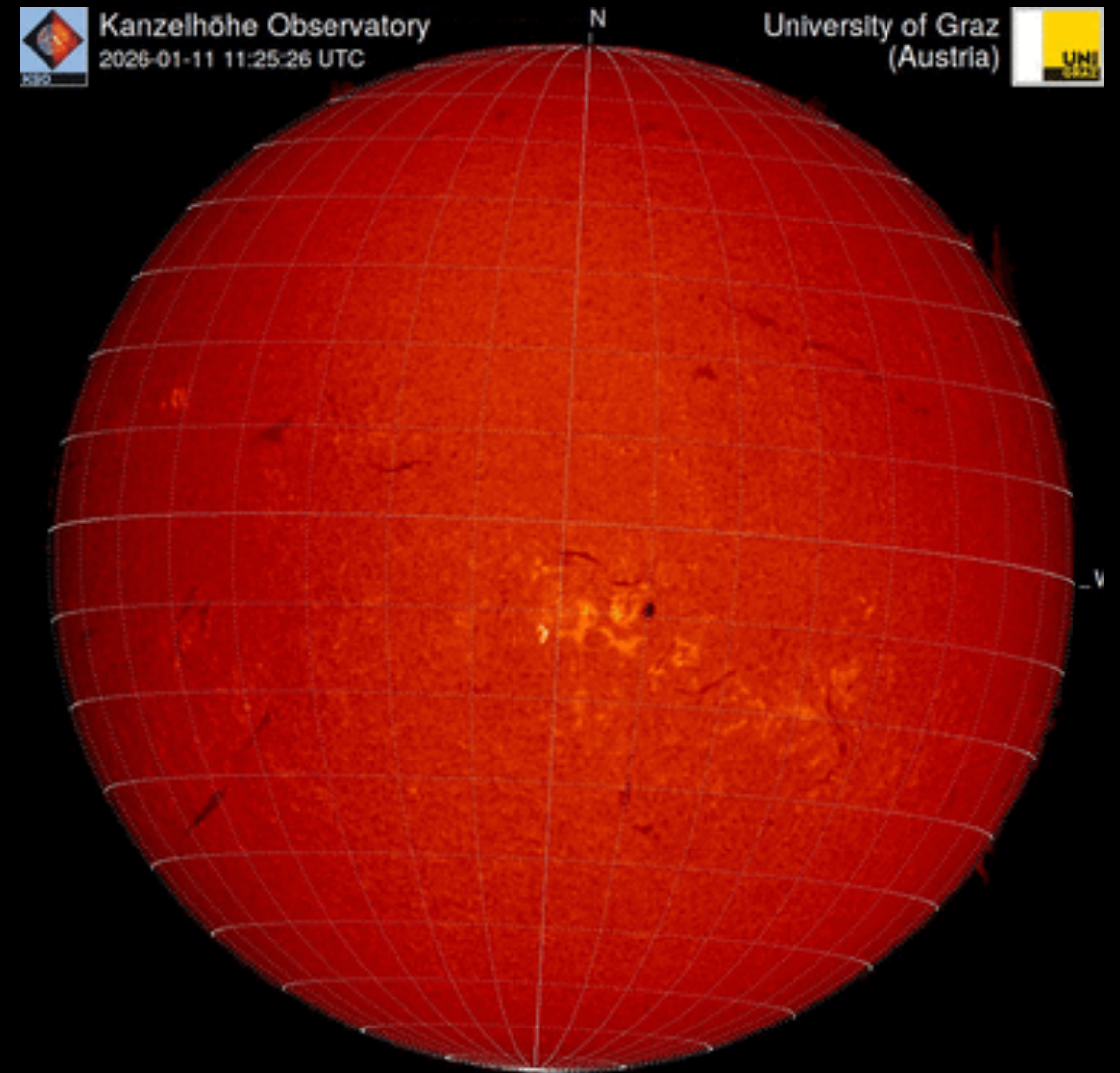
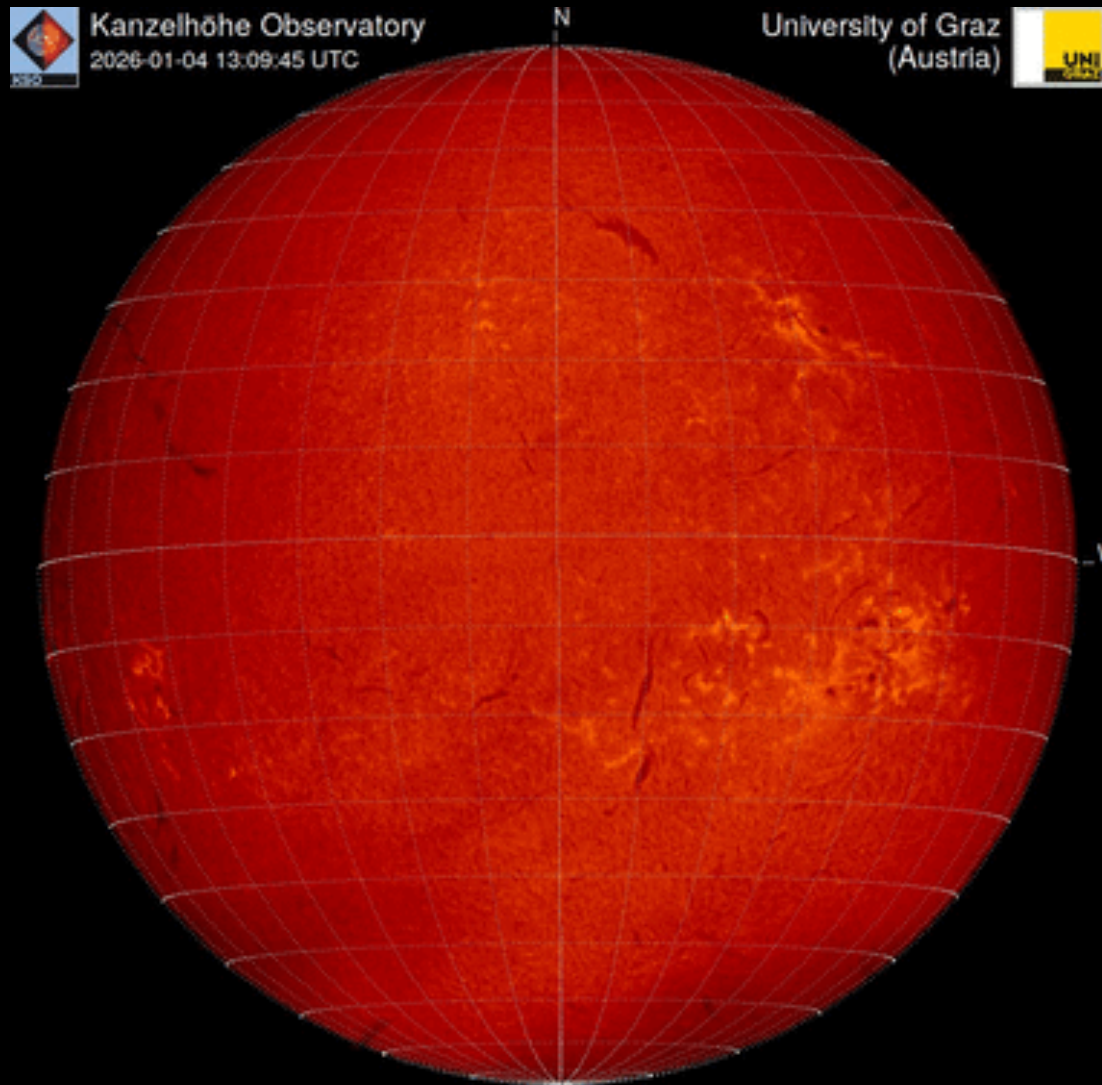
Filaments



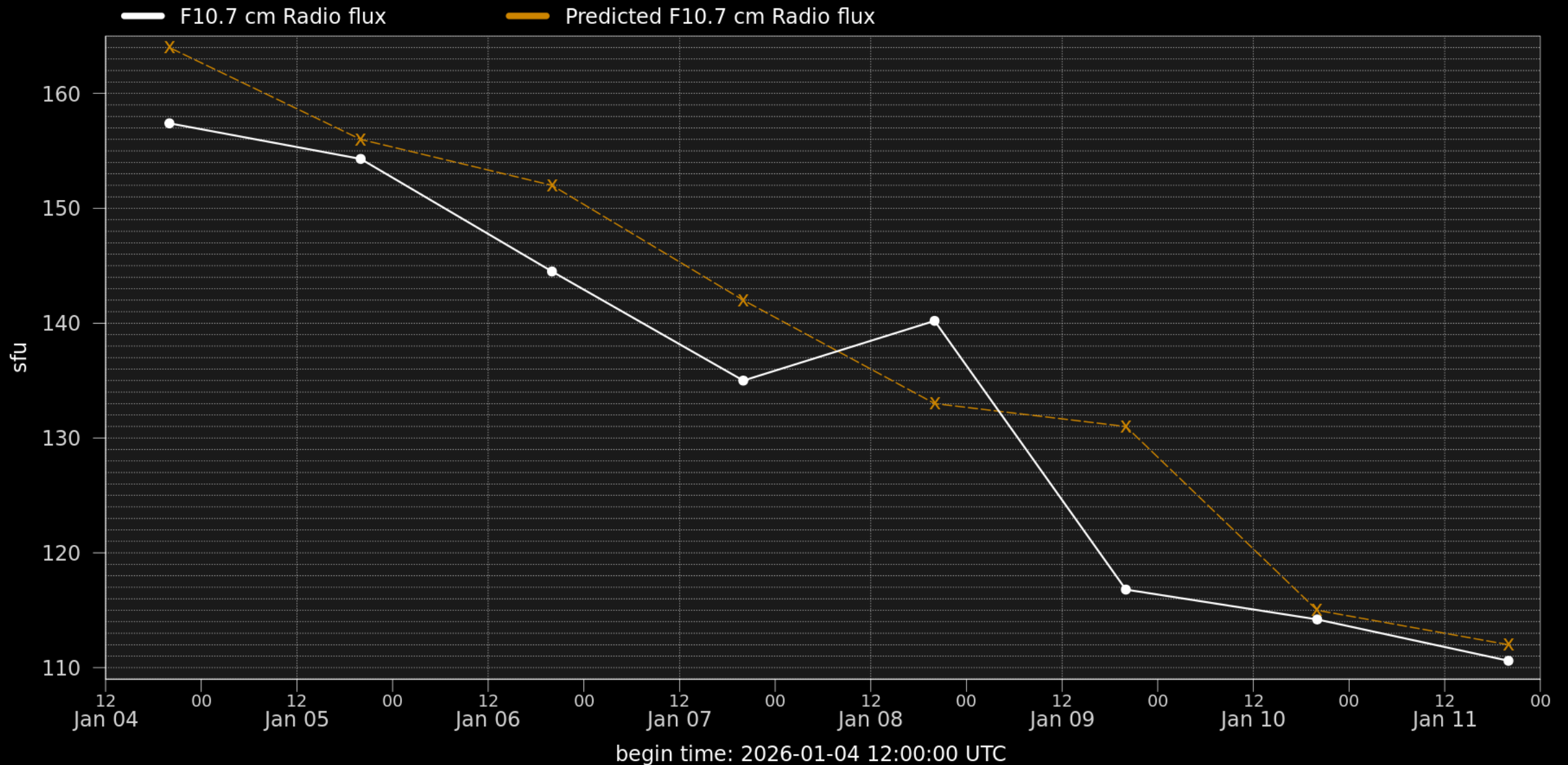
Filaments



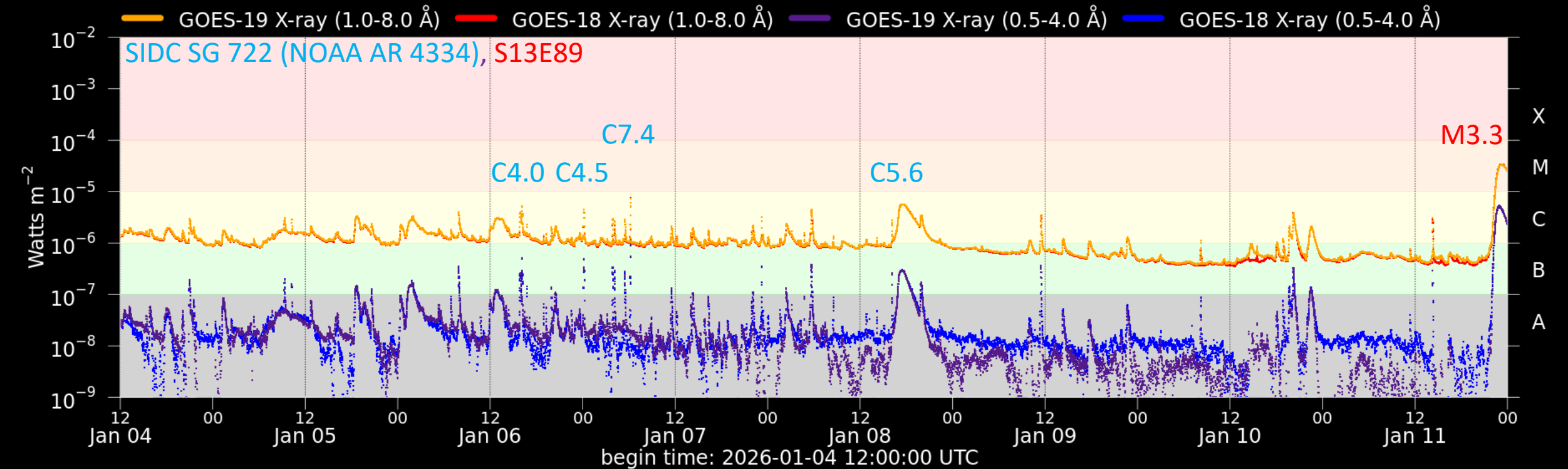
Filaments & Filament eruptions



Solar F10.7cm radio flux

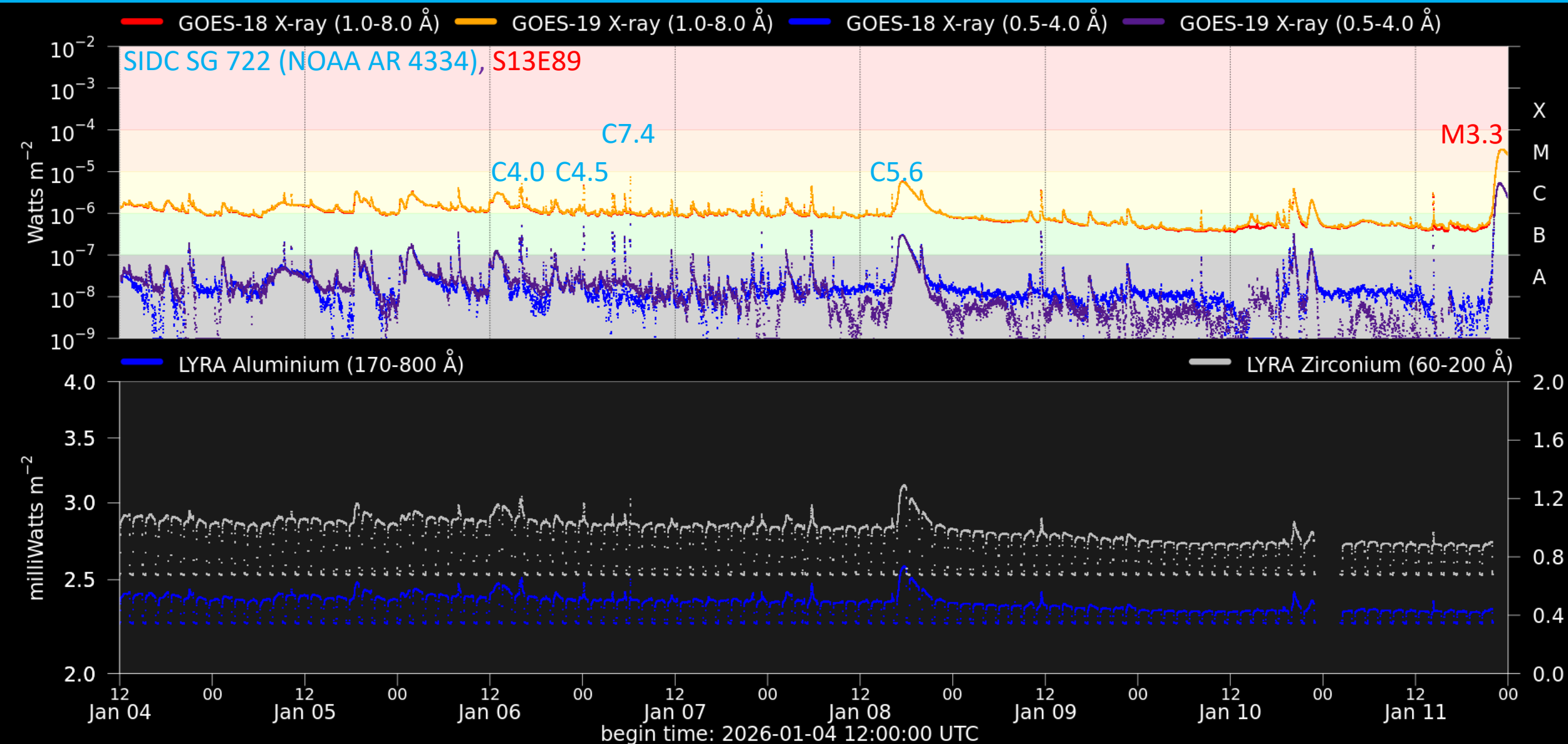


Flaring activity



Issue date	2026-01-04	2026-01-05	2026-01-06	2026-01-07	2026-01-08	2026-01-09	2026-01-10	2026-01-11
Probability (%)	99 60 05	99 45 05	99 45 05	99 45 10	99 50 10	90 25 05	85 18 01	90 35 01
Observed (#)	07 00 00	06 00 00	12 00 00	14 00 00	06 00 00	04 00 00	05 00 00	01 01 00

Solar X-Ray and UV flux



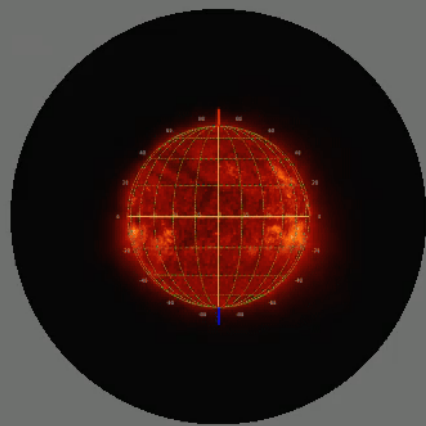
Coronal Mass Ejections

SIDC CME 619

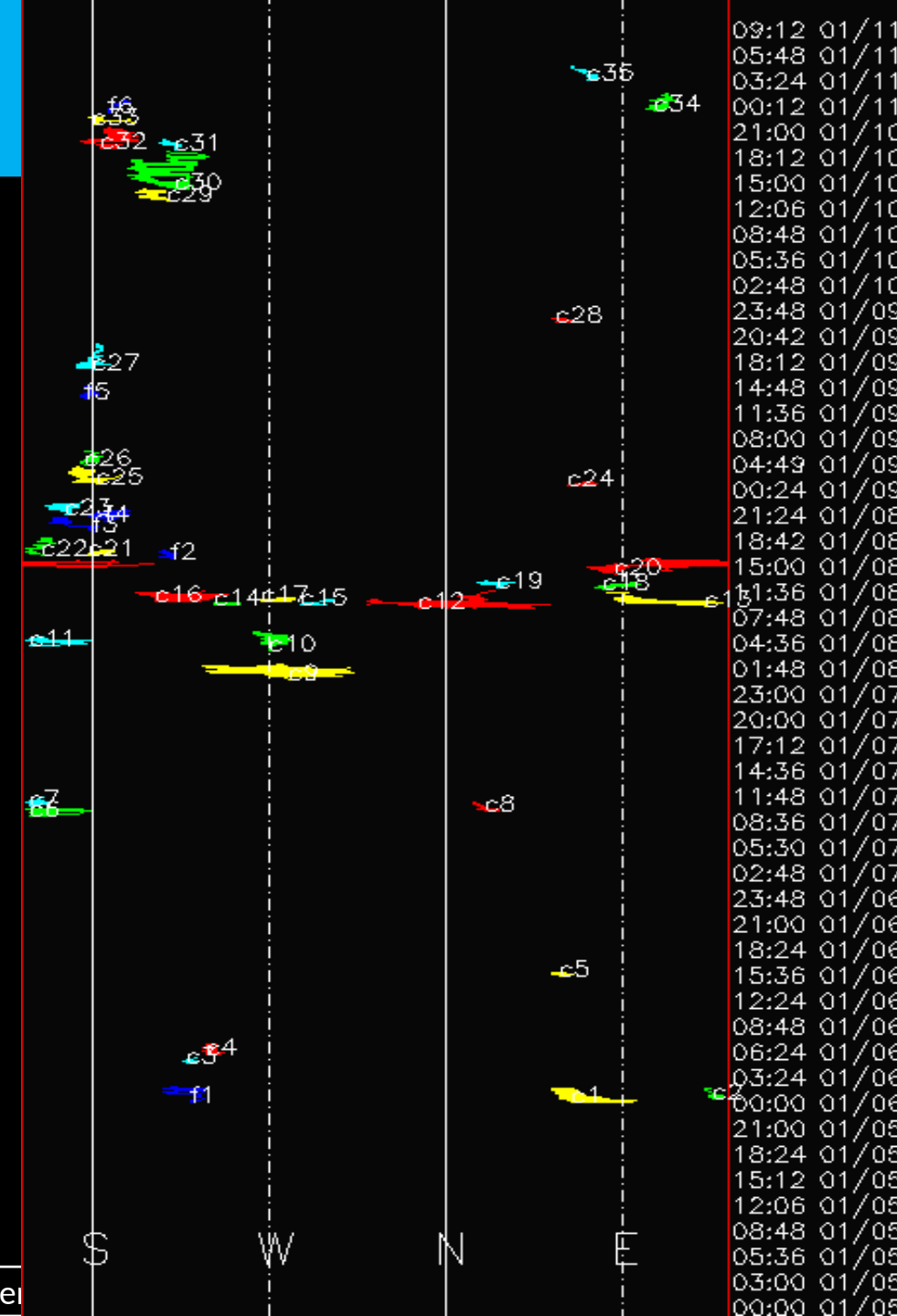
When: 02:12 UTC on January 6

Associated with C2.1 flare, produced by
SIDC SG 722 (NOAA AR 4334)

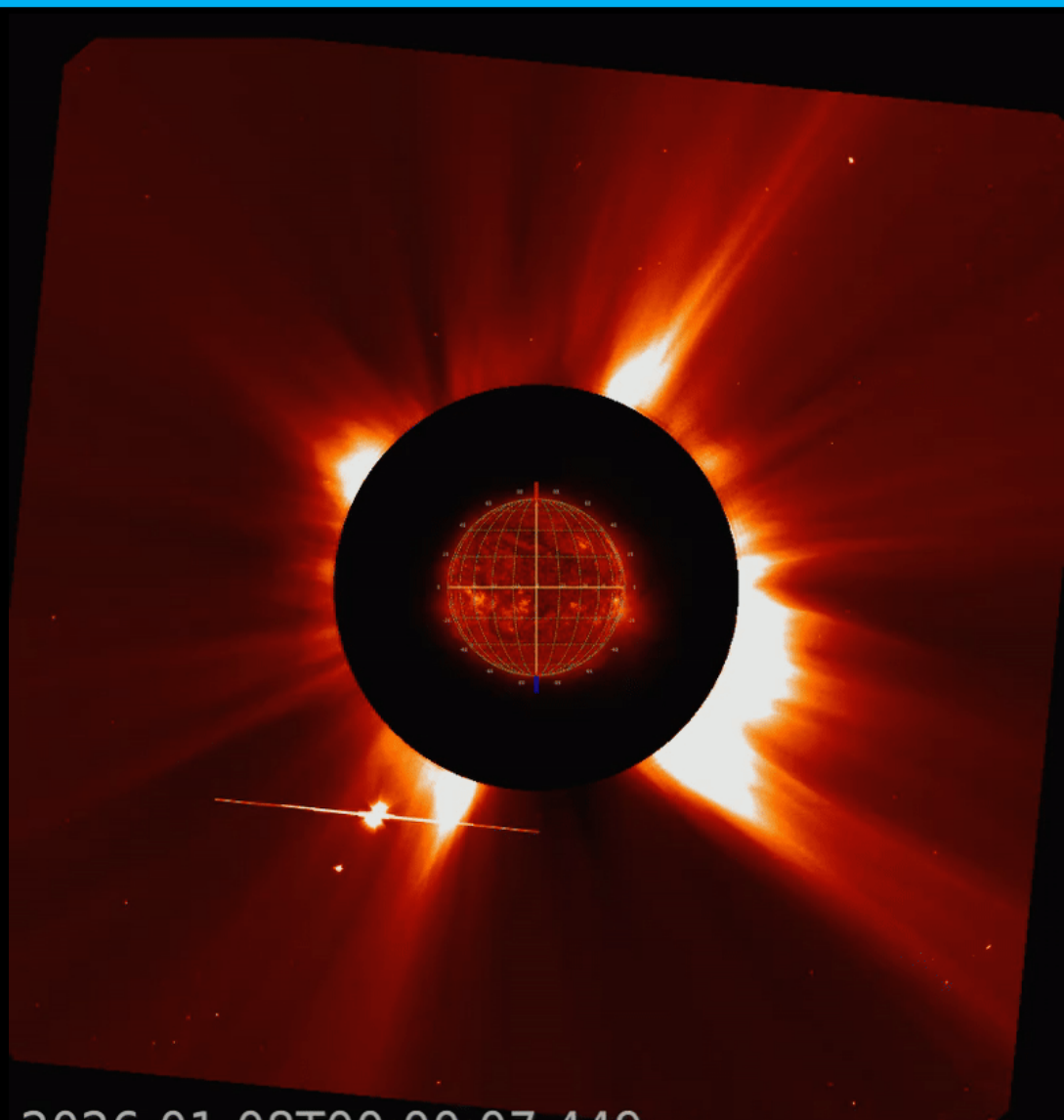
Prediction: Predicted arrival at Earth early on Jan 09th



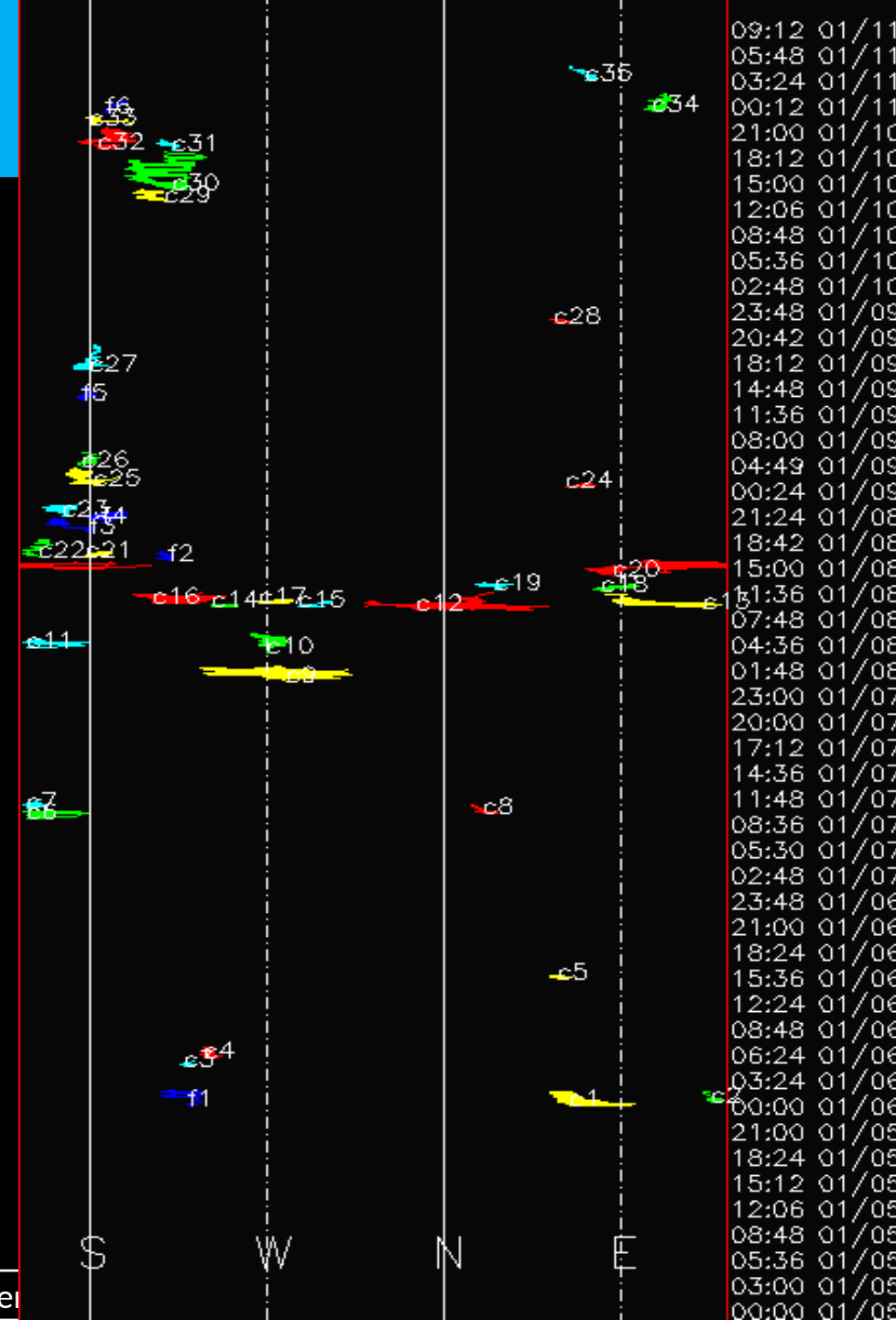
2026-01-06T00:00:07.499



Coronal Mass Ejections



2026-01-08T00:00:07.449



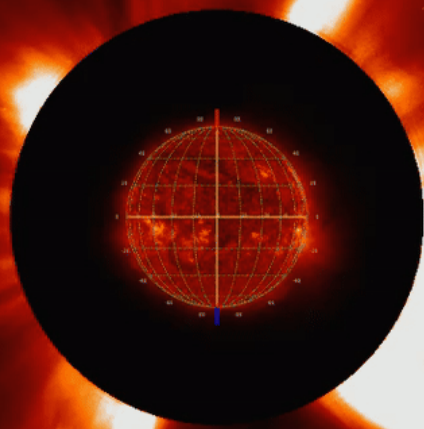
Coronal Mass Ejections

SIDC CME 620

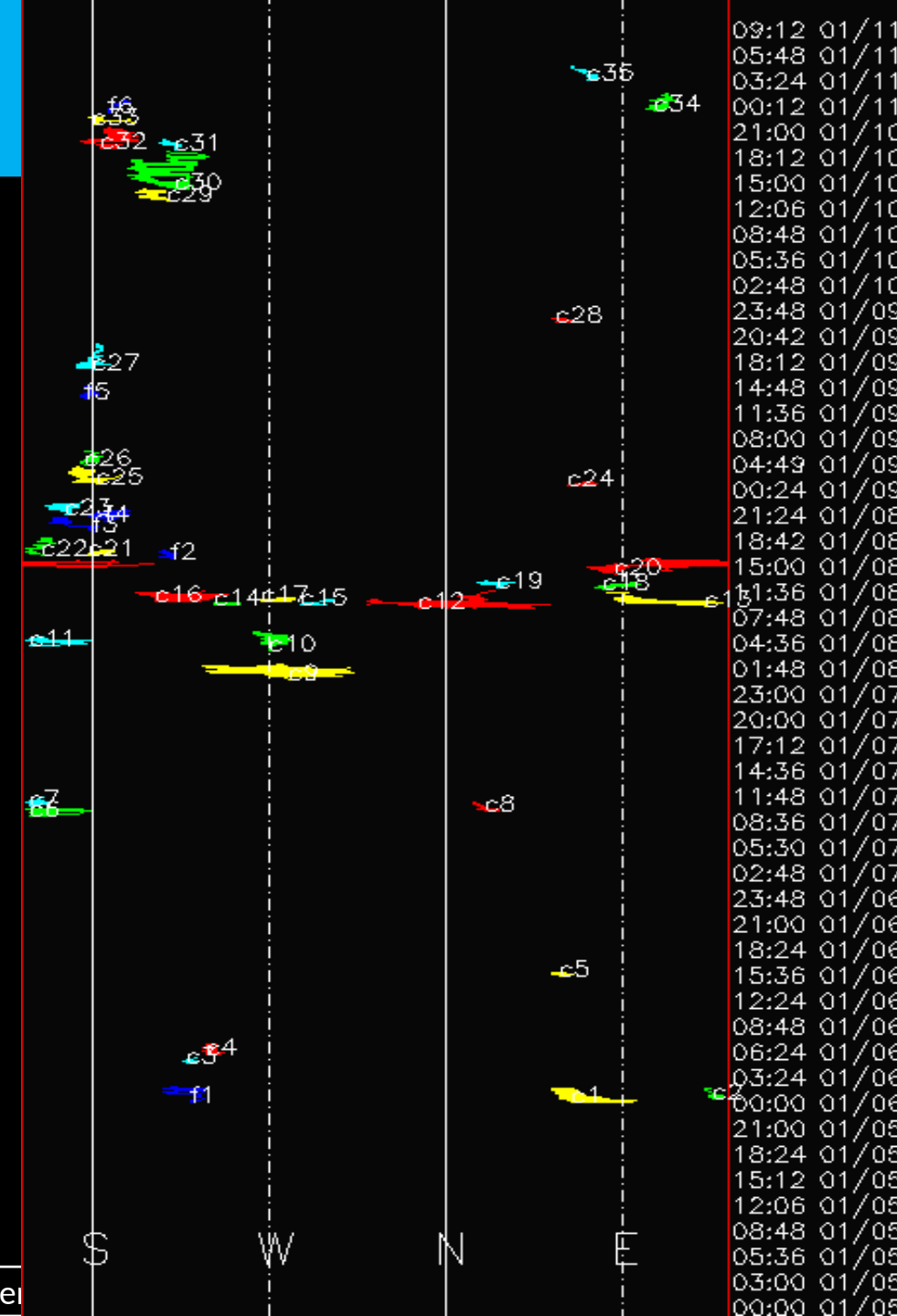
When: 05:53 UTC on January 8

**Associated with C4.4 flare, produced by
SIDC SG 722 (NOAA AR 4334)**

Prediction: Predicted arrival at Earth late on Jan 10th



2026-01-08T00:00:07.449



Coronal Mass Ejections

SIDC CME 622

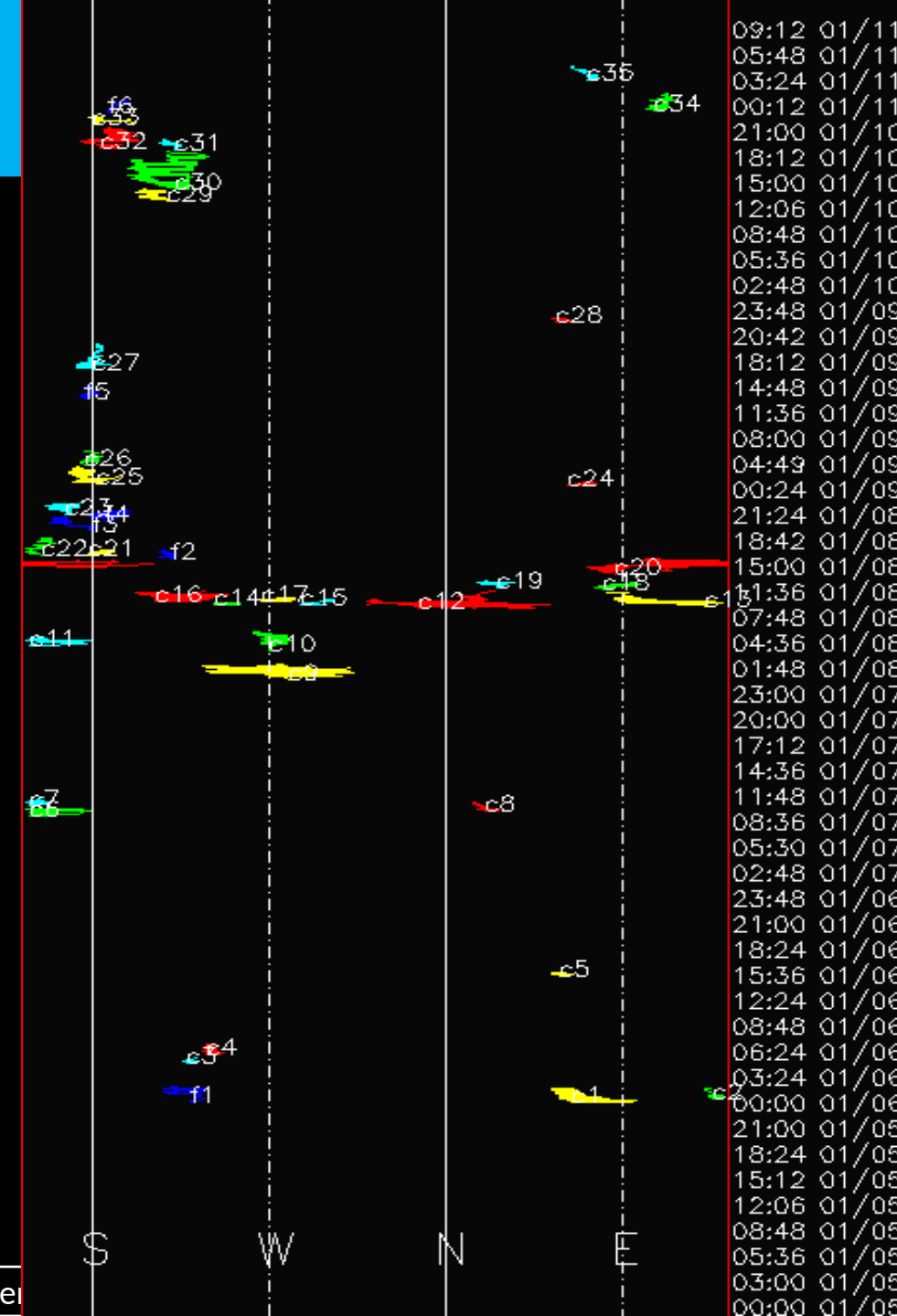
When: 17:00 UTC on January 8

Associated with filament eruption and C5.4 flare,
produced by **SIDC SG 722 (NOAA AR 4334)**

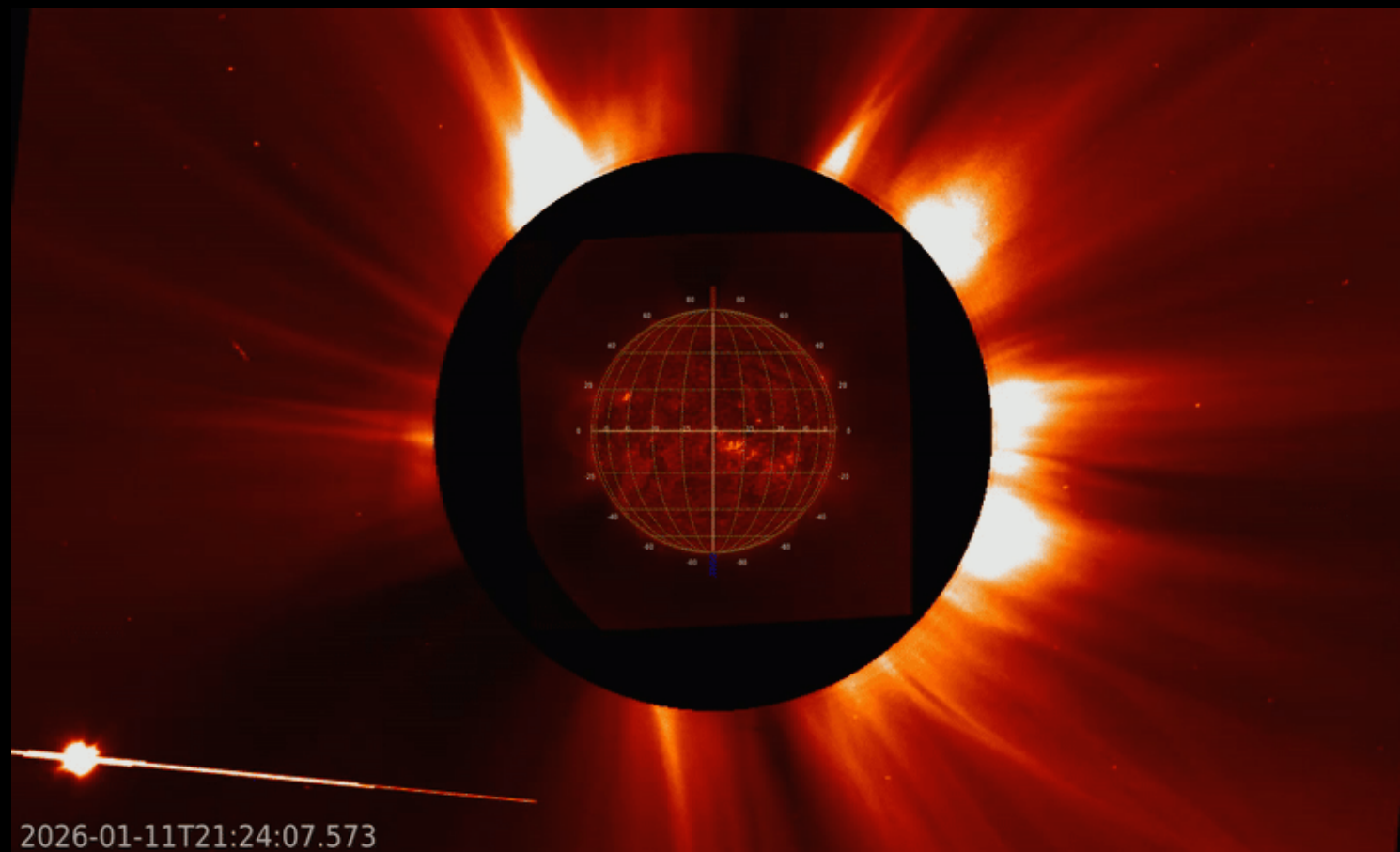
Prediction: Predicted arrival at Earth early on Jan 11th



2026-01-08T00:00:07.449



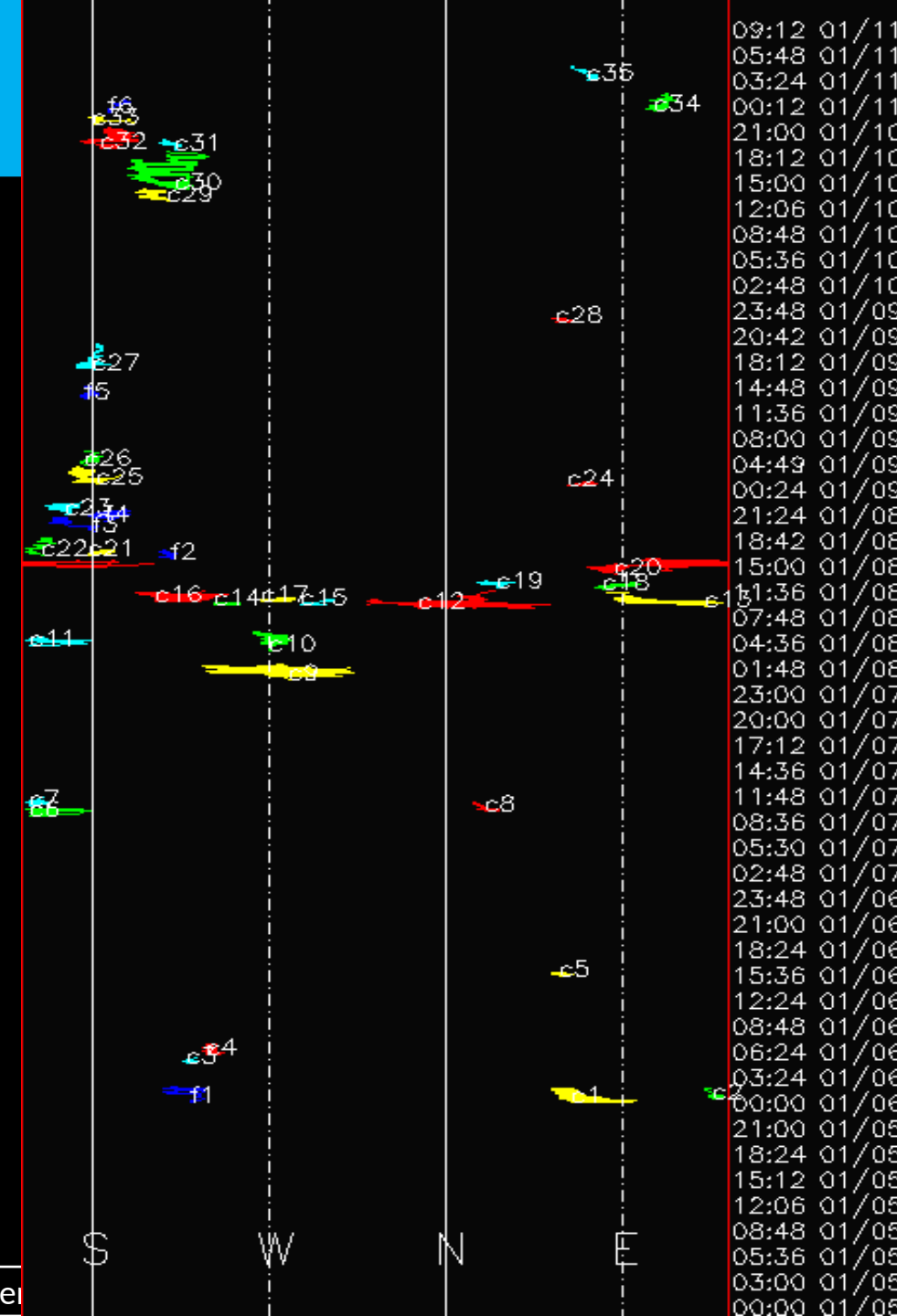
Coronal Mass Ejections



When: 23:36 UTC on January 11

Associated with M3.3 flare

Predicted Earth Impact: no impact to Earth

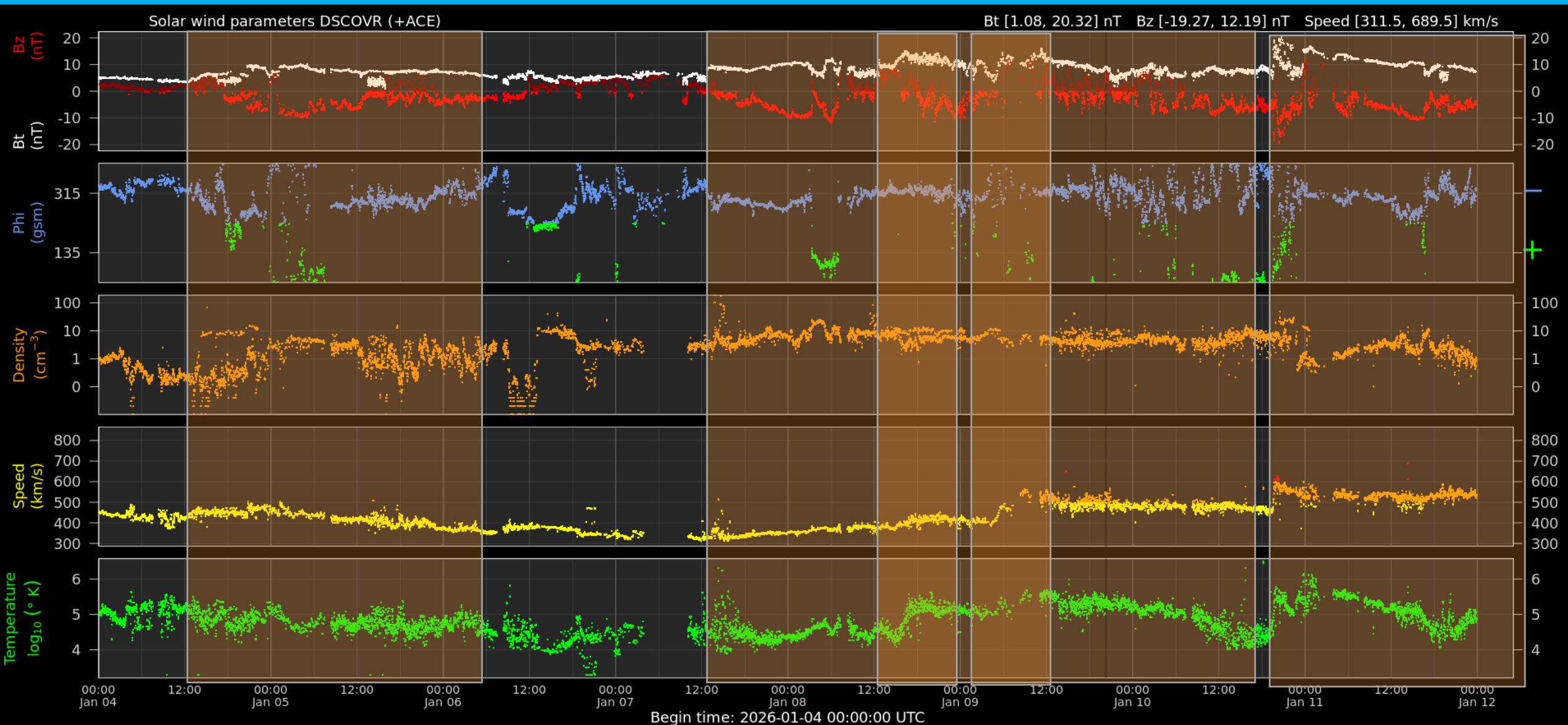


Solar wind parameters

ICME (SIDC CME 618)

ICME (SIDC CMEs 619 +?) & HSS

ICME (SIDC CMEs 620&622)

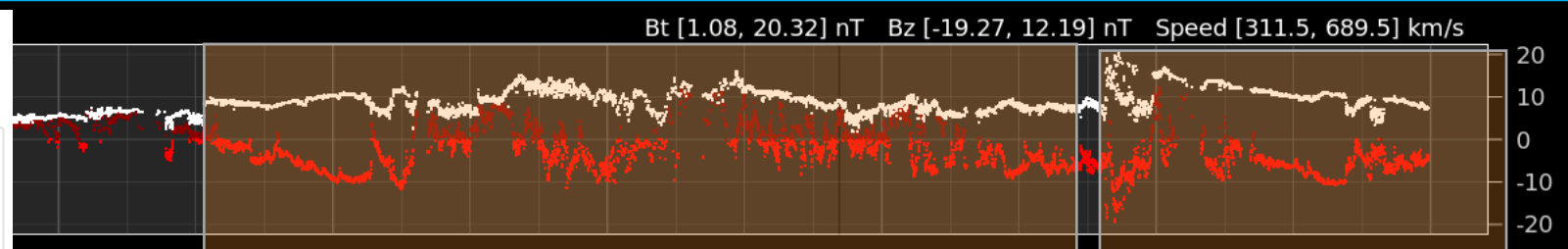
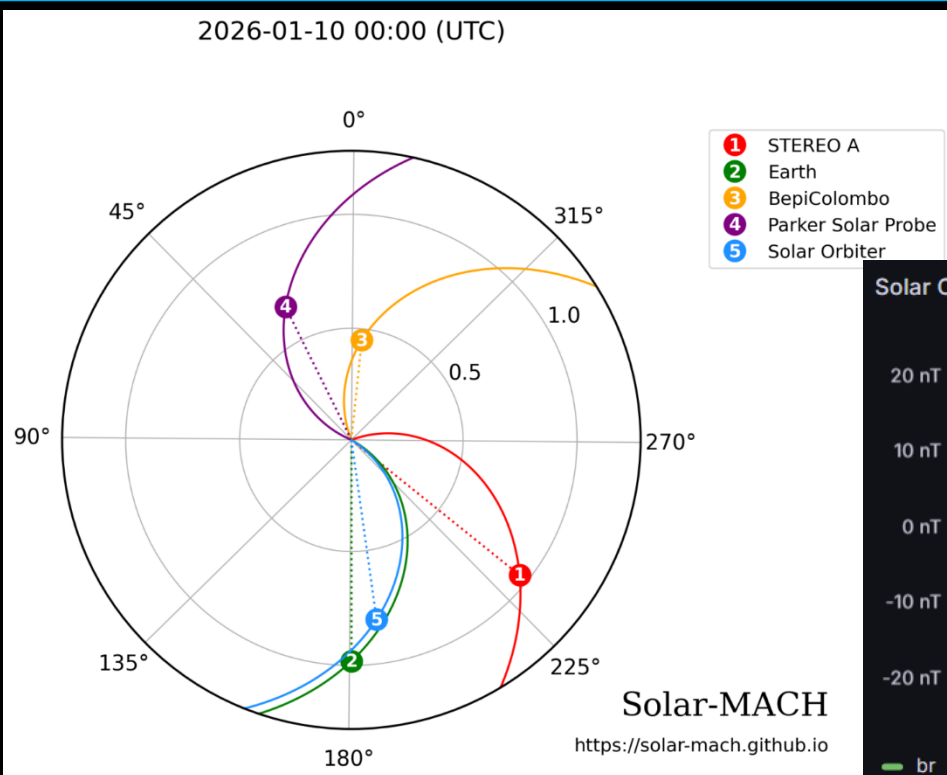


Solar wind parameters

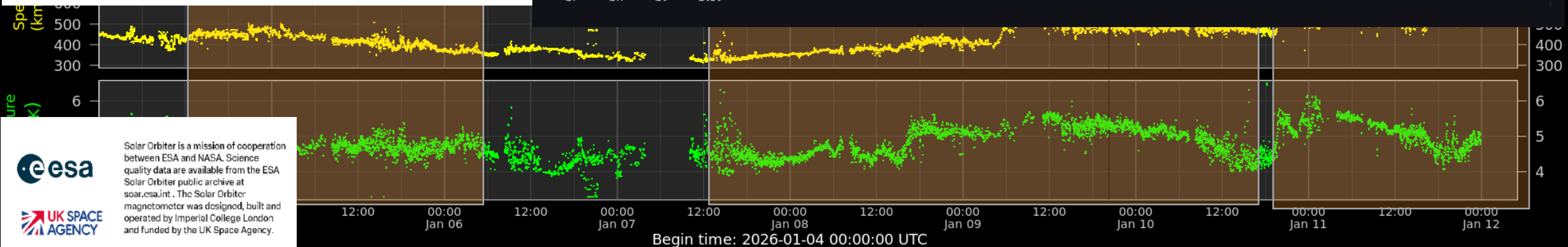
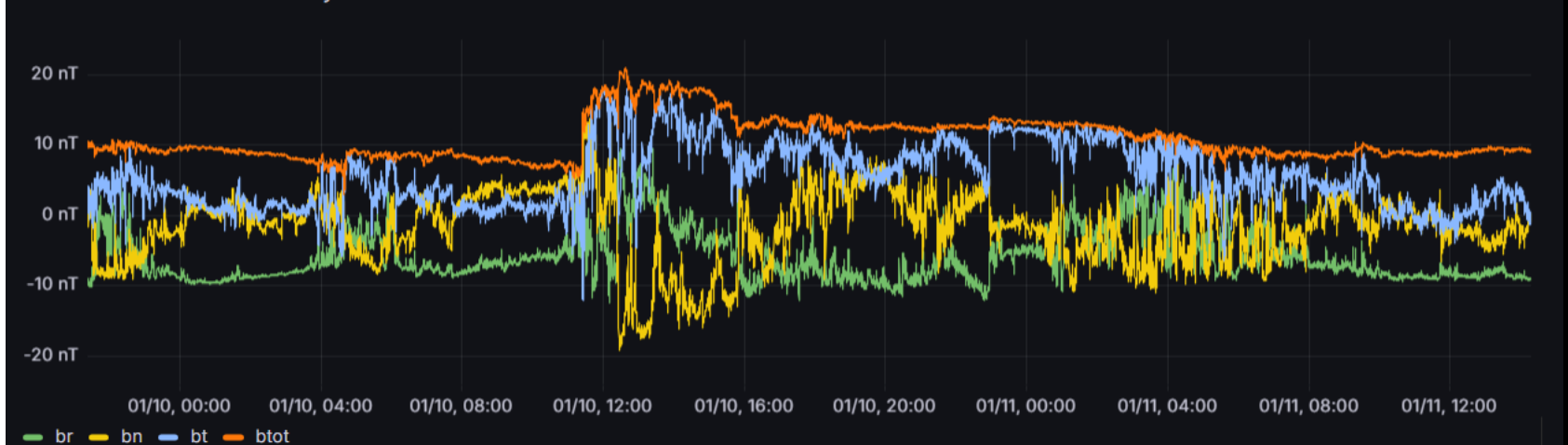
ICME (SIDC CME 618)

ICME (SIDC CMEs 619) + HSS

ICME (SIDC CMEs 620&622)



Solar Orbiter MAG Low Latency



Solar wind parameters & K-indices

ICME (SIDC CME 618)

ICME (SIDC CMEs 619) + HSS

ICME (SIDC CMEs 620&622)

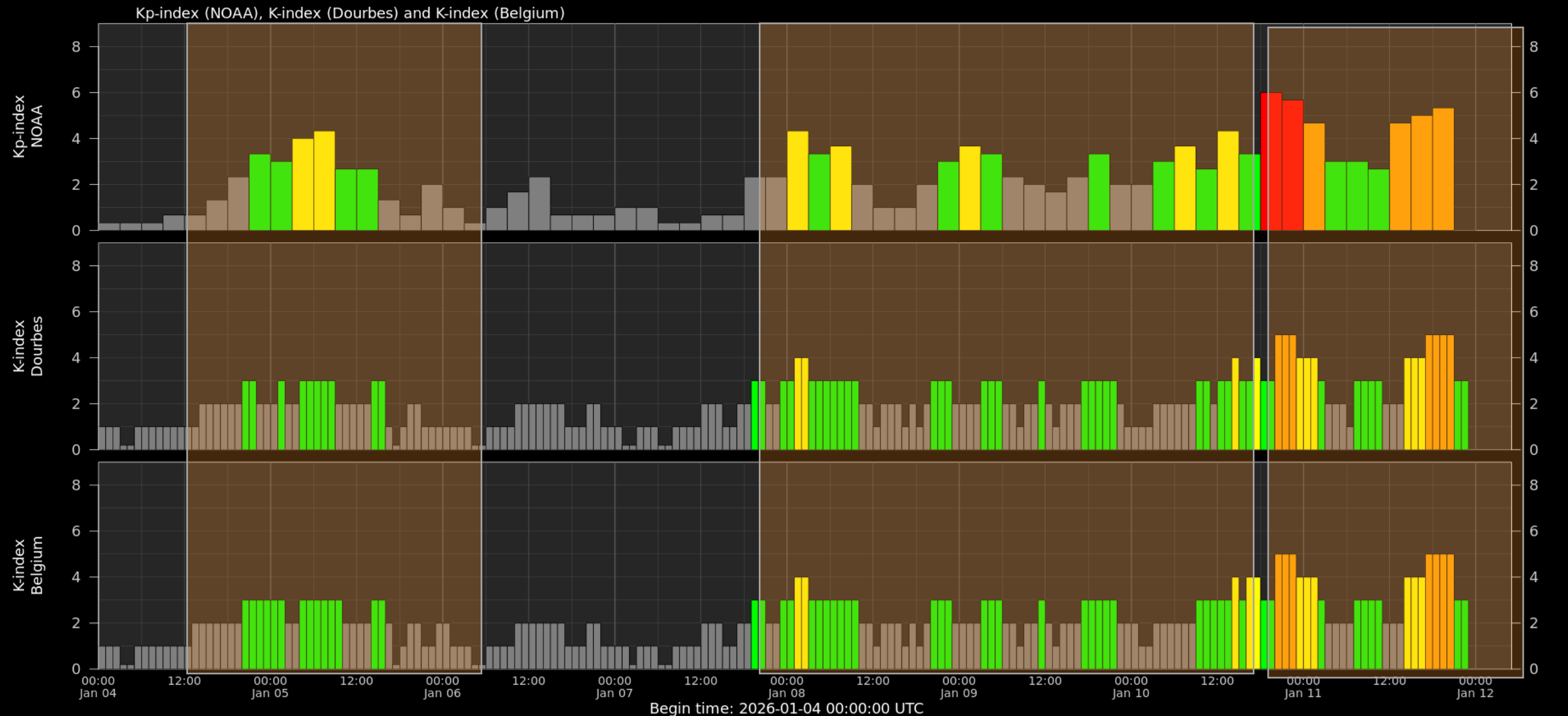


Geomagnetic activity (K-indexes)

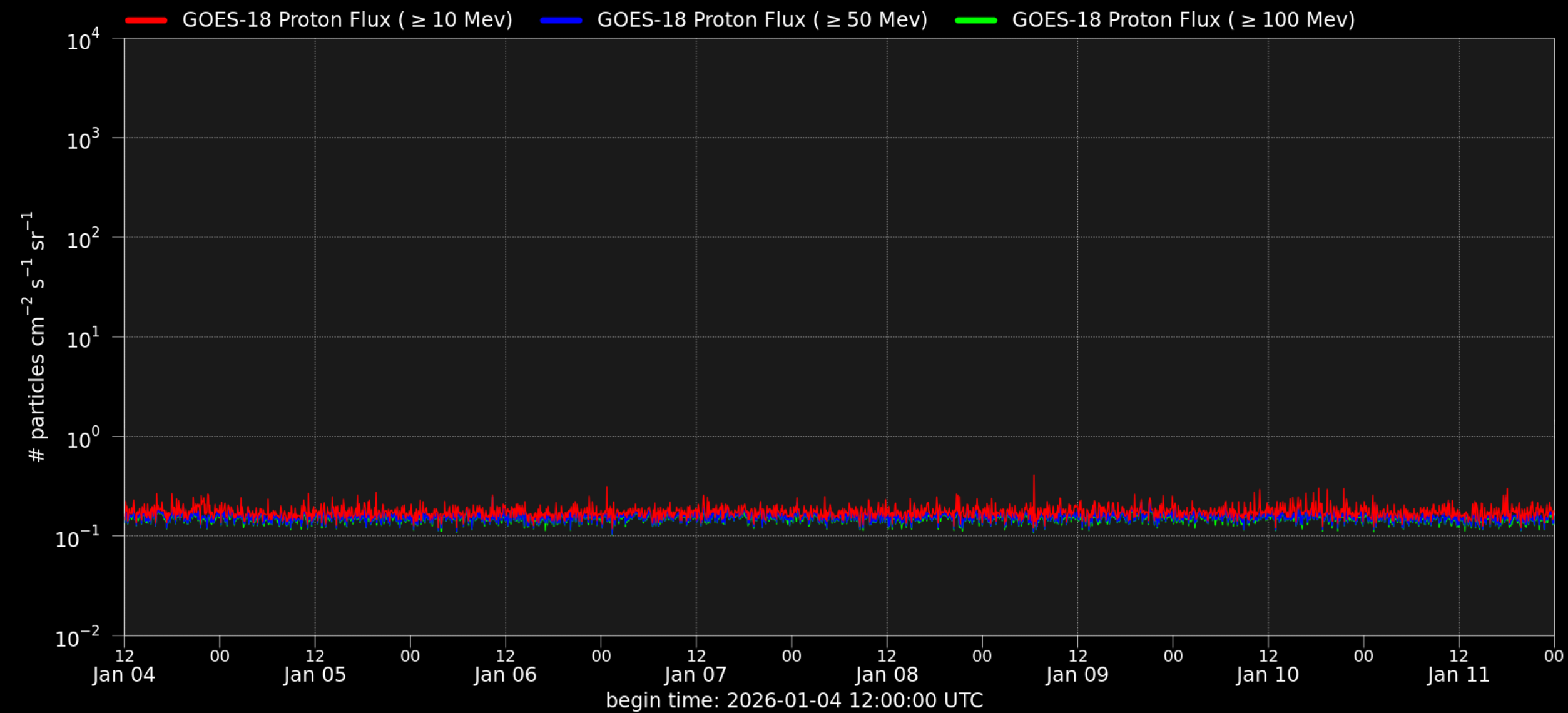
ICME (SIDC CME 618)

ICME (SIDC CMEs 619) + HSS

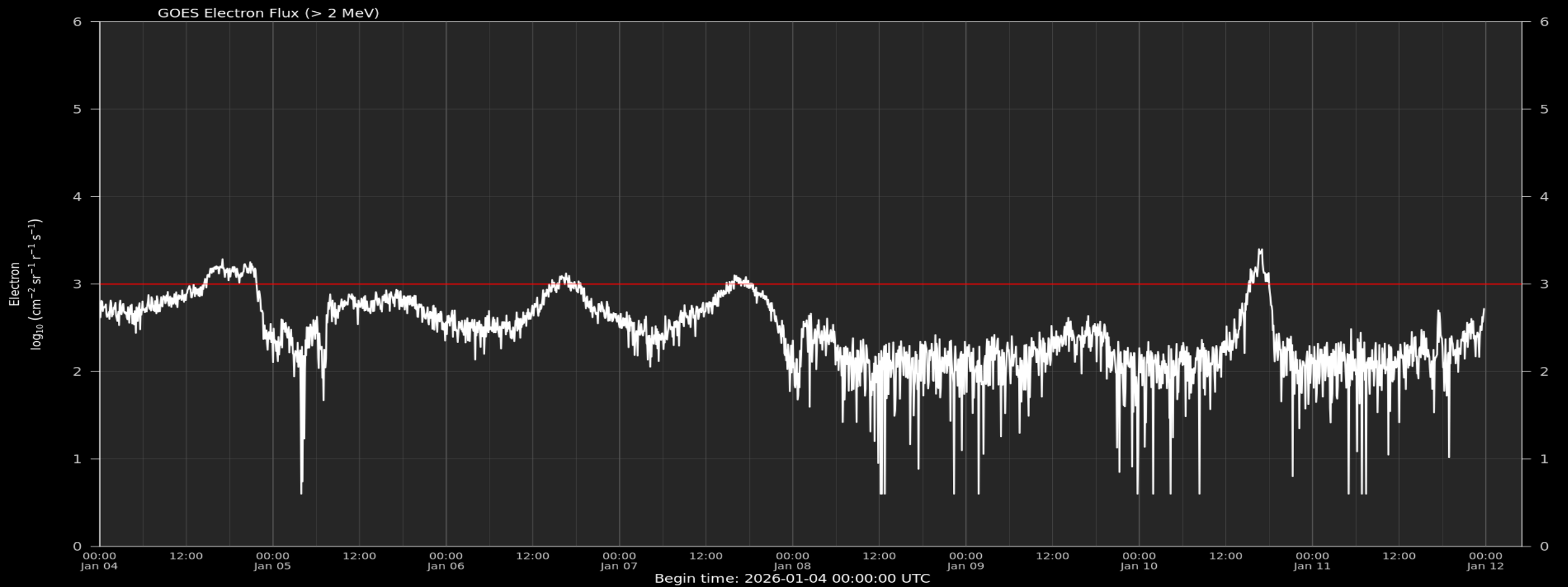
ICME (SIDC CMEs 620&622)



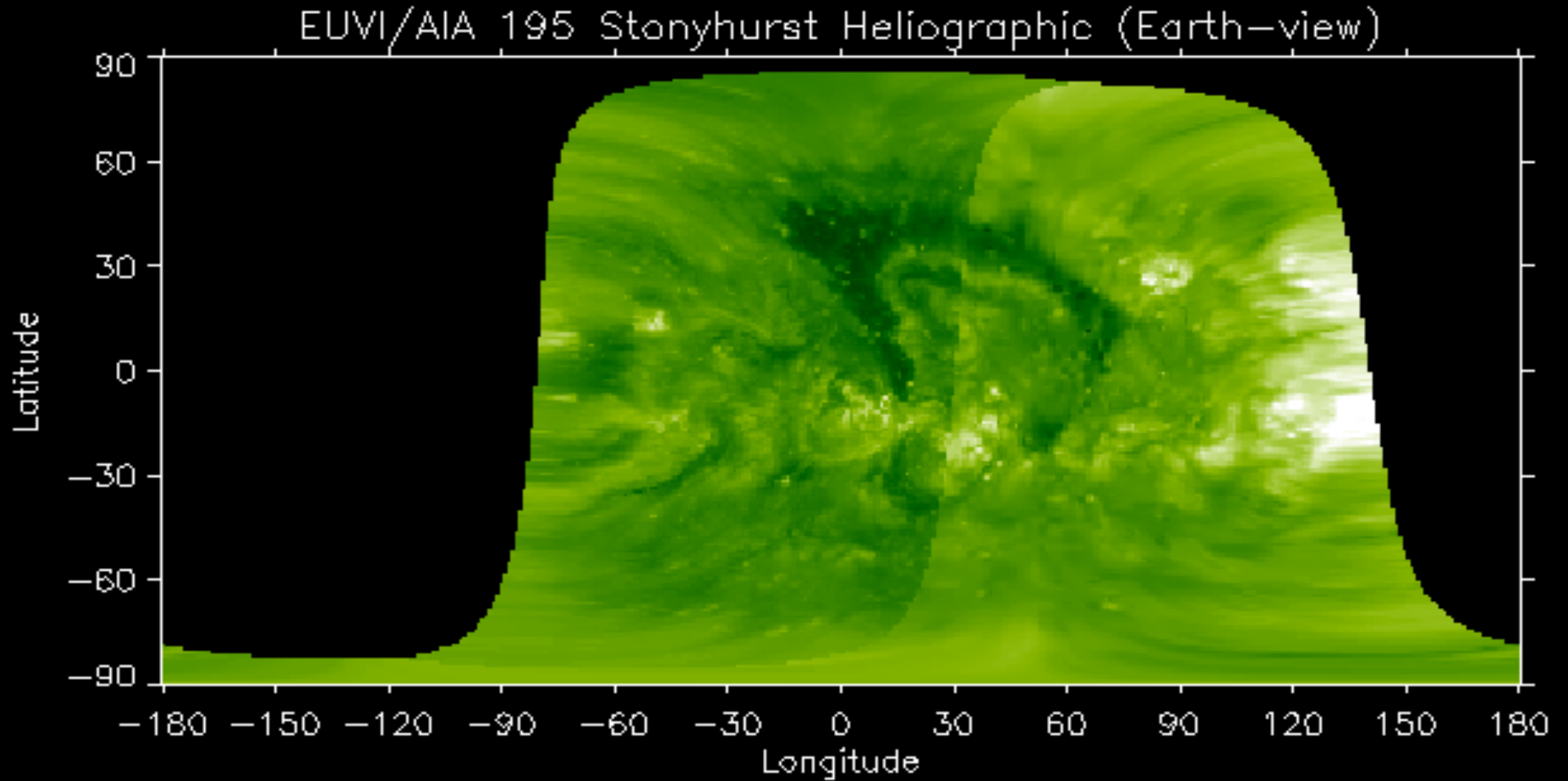
Solar proton flux



Electron flux at GEO

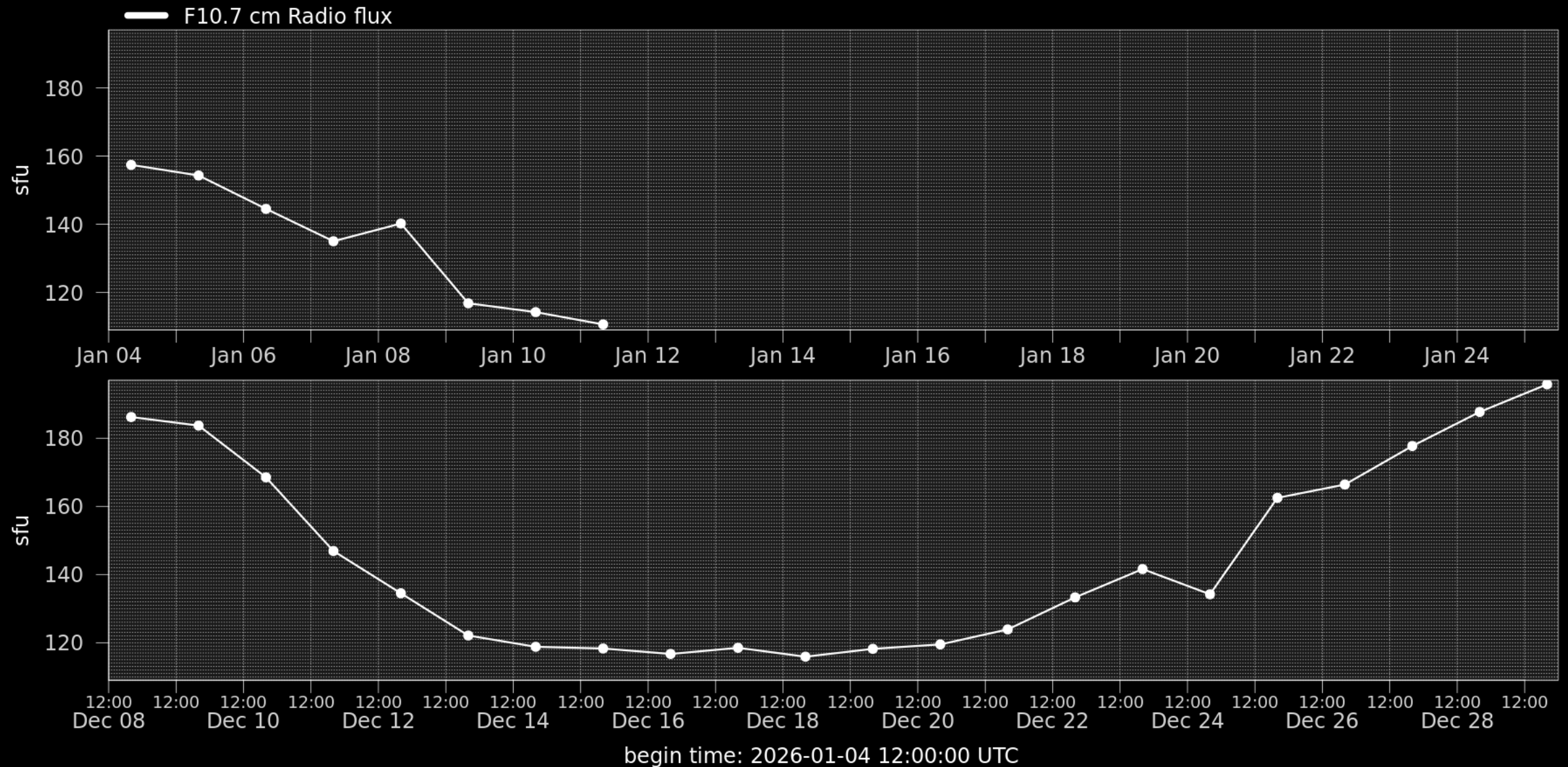


Outlook: Solar activity

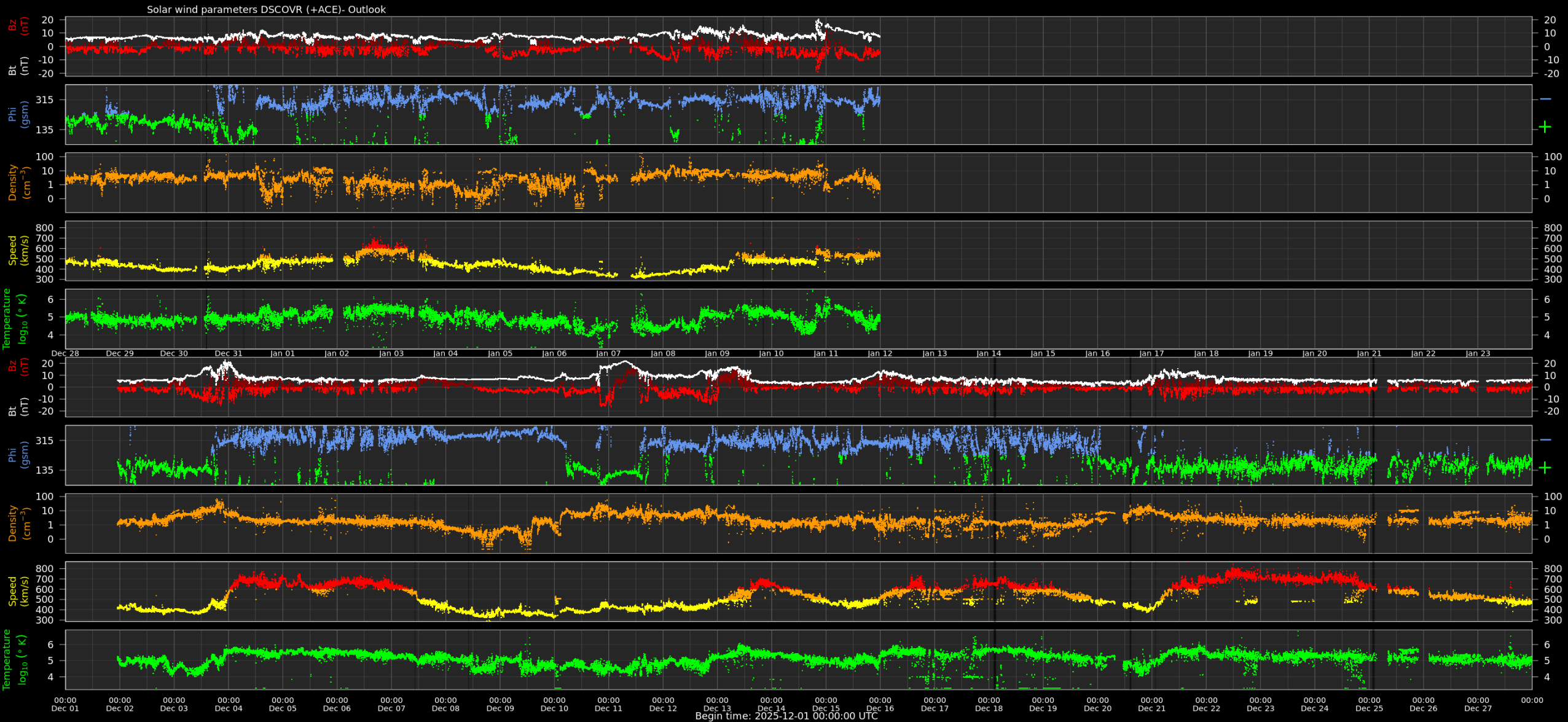


Observation date: 2026/01/11 19:35:00

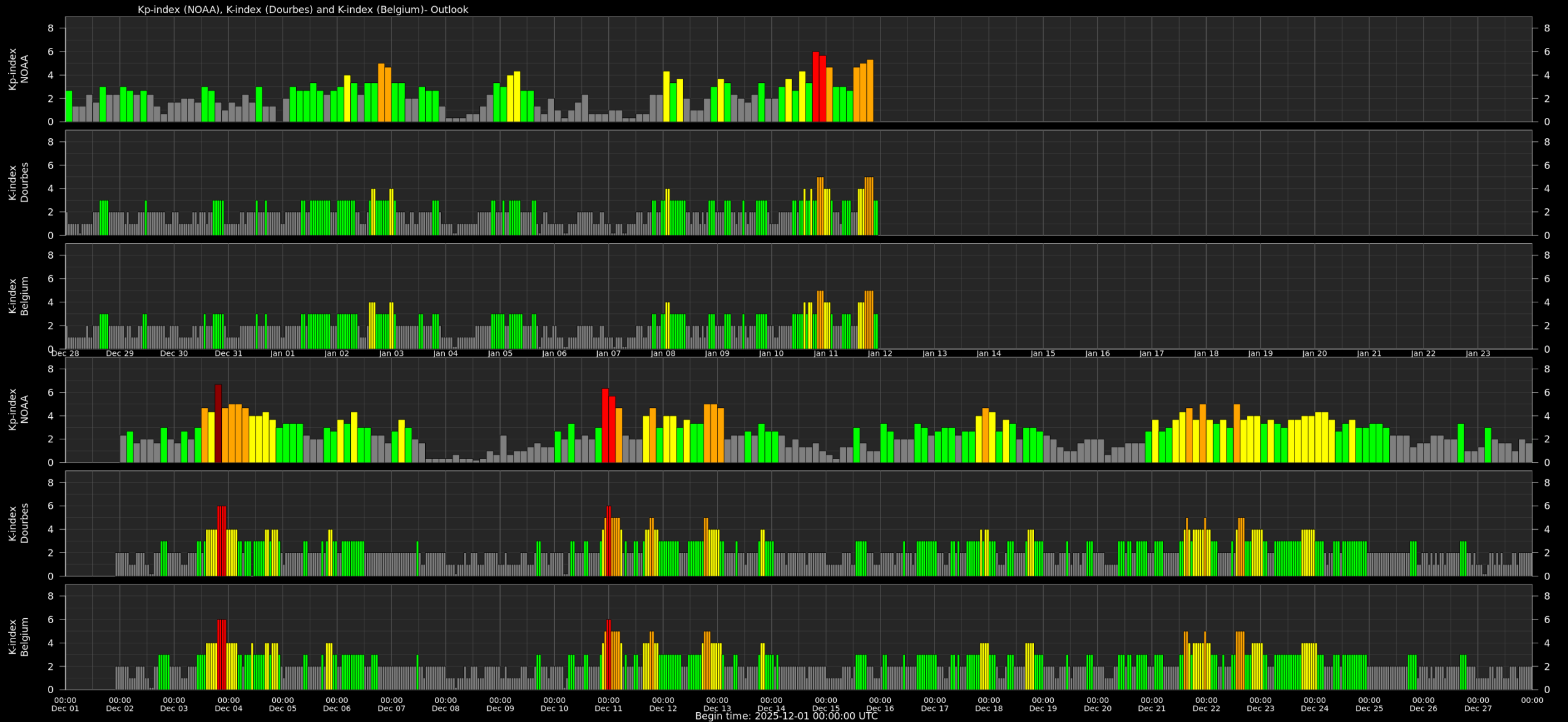
Outlook: Solar F10.7cm radio flux



Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook

