

SIDC Space Weather Briefing

02 February 2026-08 February 2026

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& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-02-02 00:00 to 2026-02-08 23:59

Active regions	12 SIDC sunspot groups, main one: SIDC 784 (NOAA 4366)
Flares	# C-class flare: 37 # M-class flare: 49 # X-class flare: 6
Coronal Holes	Three negative polarity
CMEs	1 Earth directed

Proton flux	Below threshold
Electron flux	Normal to moderate

Solar wind and geomagnetic conditions

ICMEs	One arriving at Earth
Solar wind conditions	B : 2.79 - 23.5 nT //Bz: -17.2 nT to 17.46 nT //Speed: 277.2 - 726.2km/s
Geomagnetic conditions	max K _{Be} : 5.0, max K _p (NOAA): 5.33, Minor Storm conditions

All Quiet Alert: Off

Solar Activity

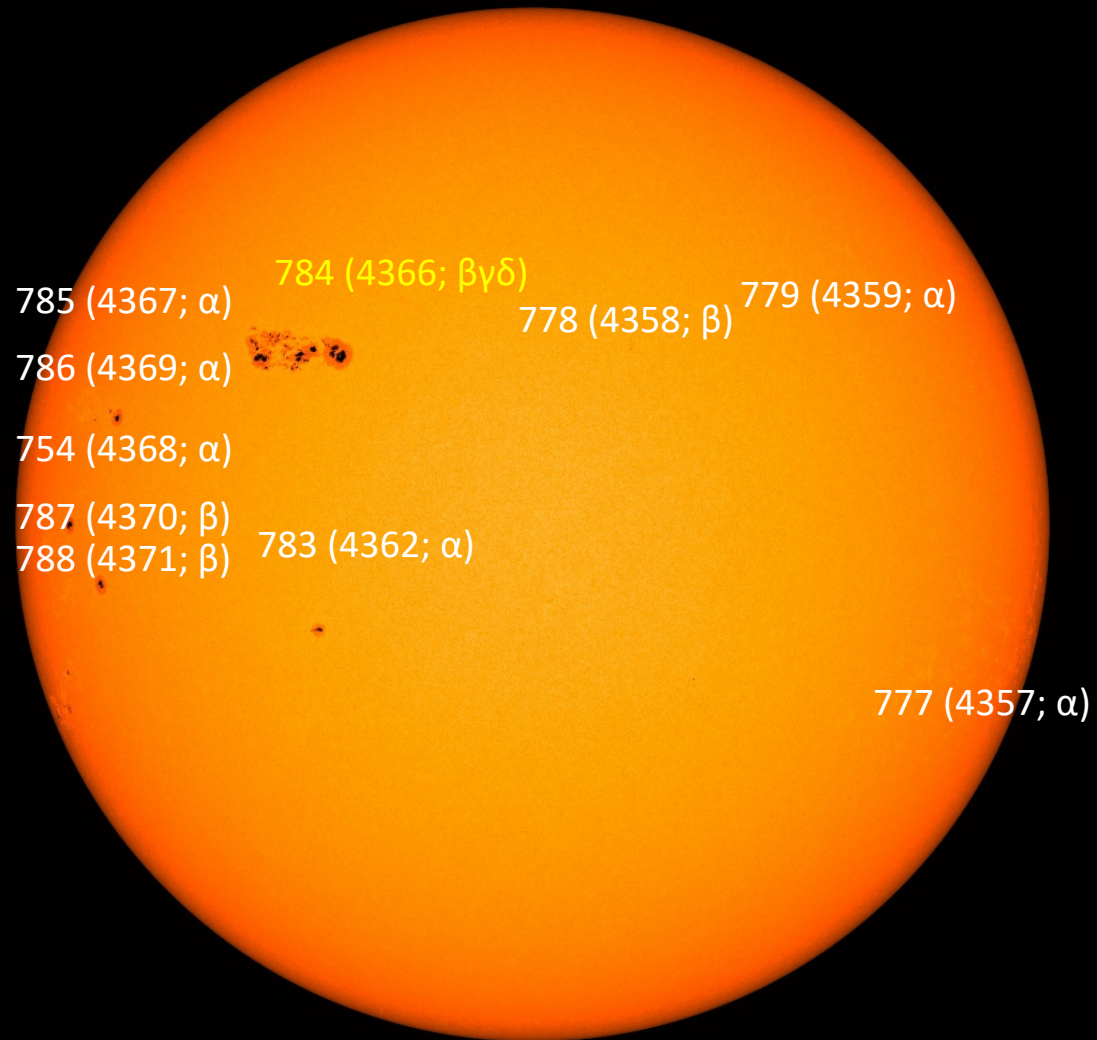


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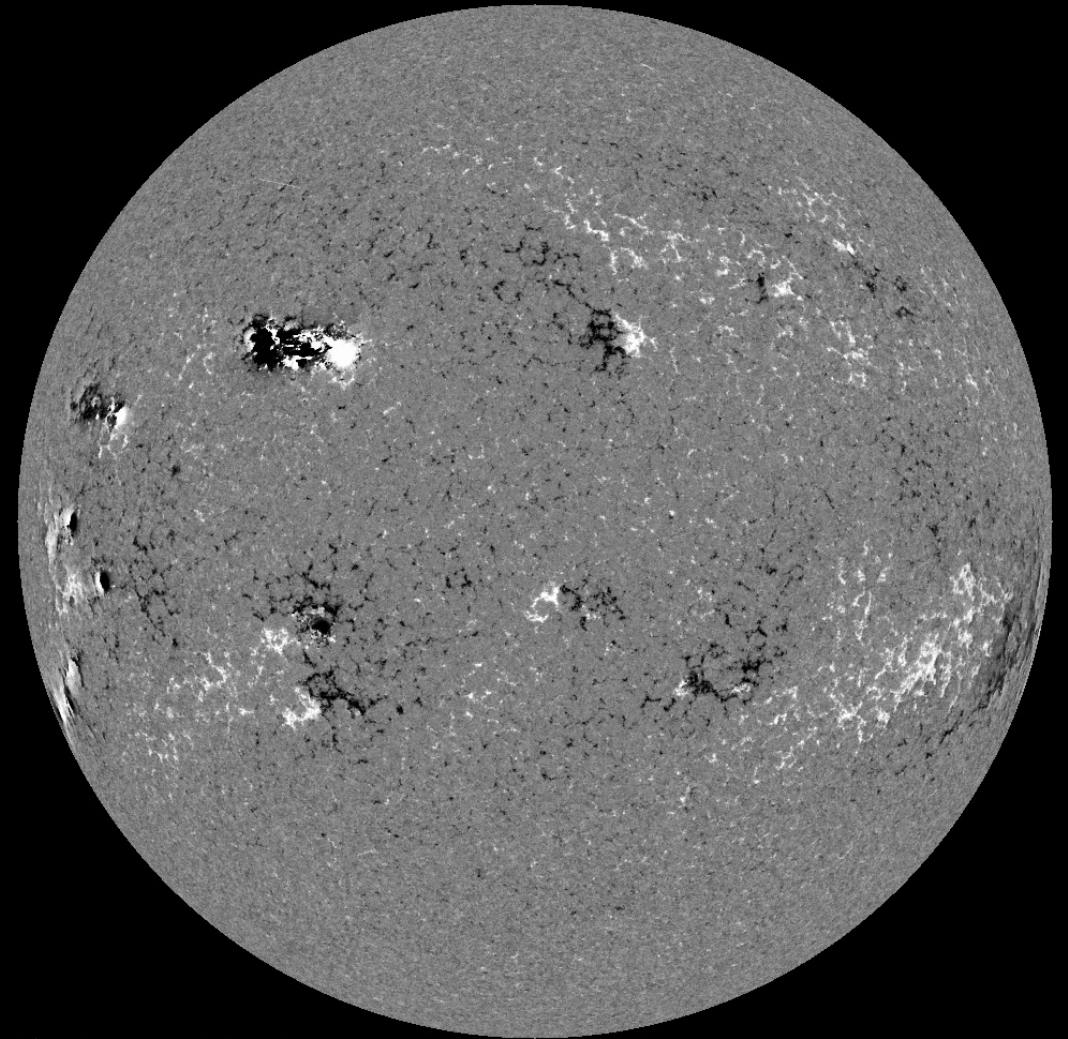
Solar active regions

SDO/HMI White Light 2026-02-02



SDO/HMI Continuum: 20260202_120000

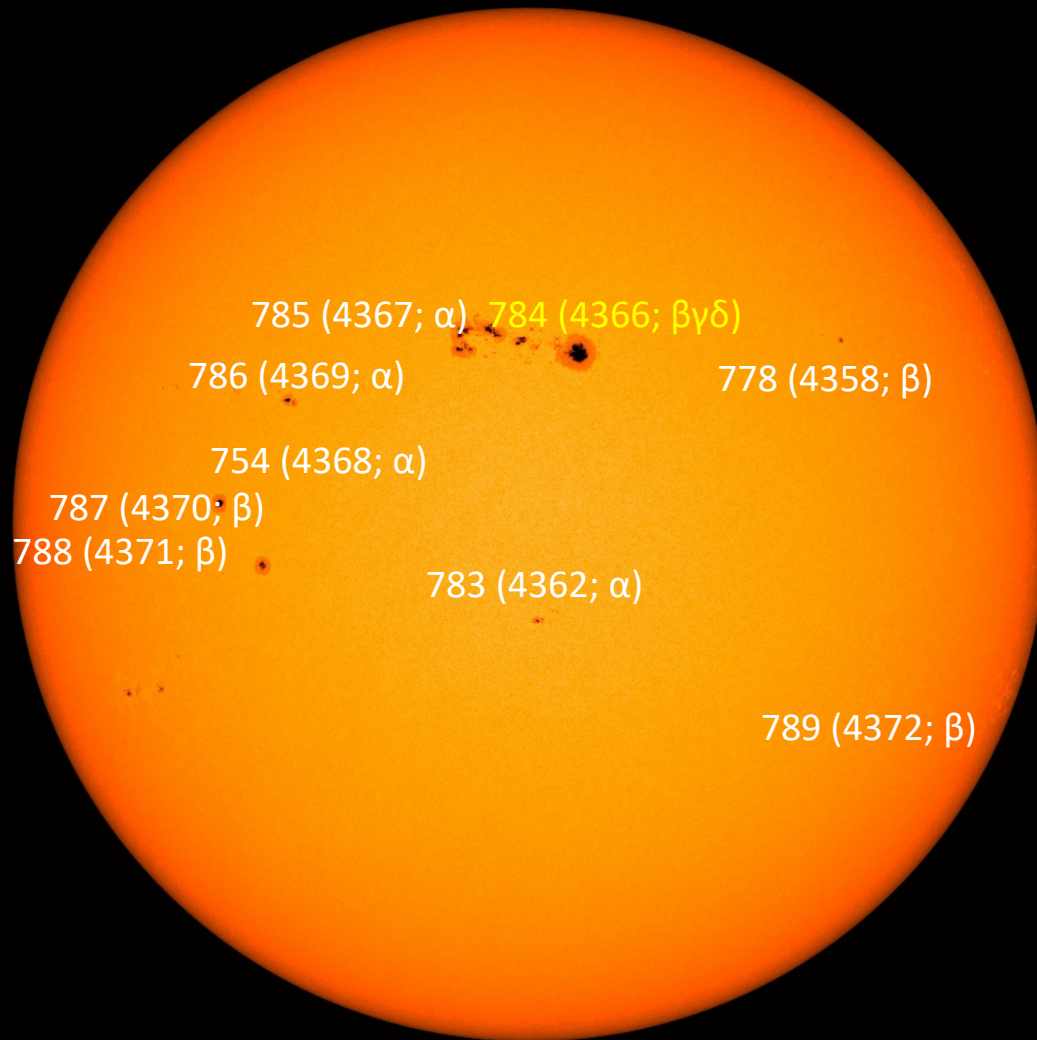
SDO/HMI Magnetogram 2026-02-02



SDO/HMI Magnetogram: 20260202_120000

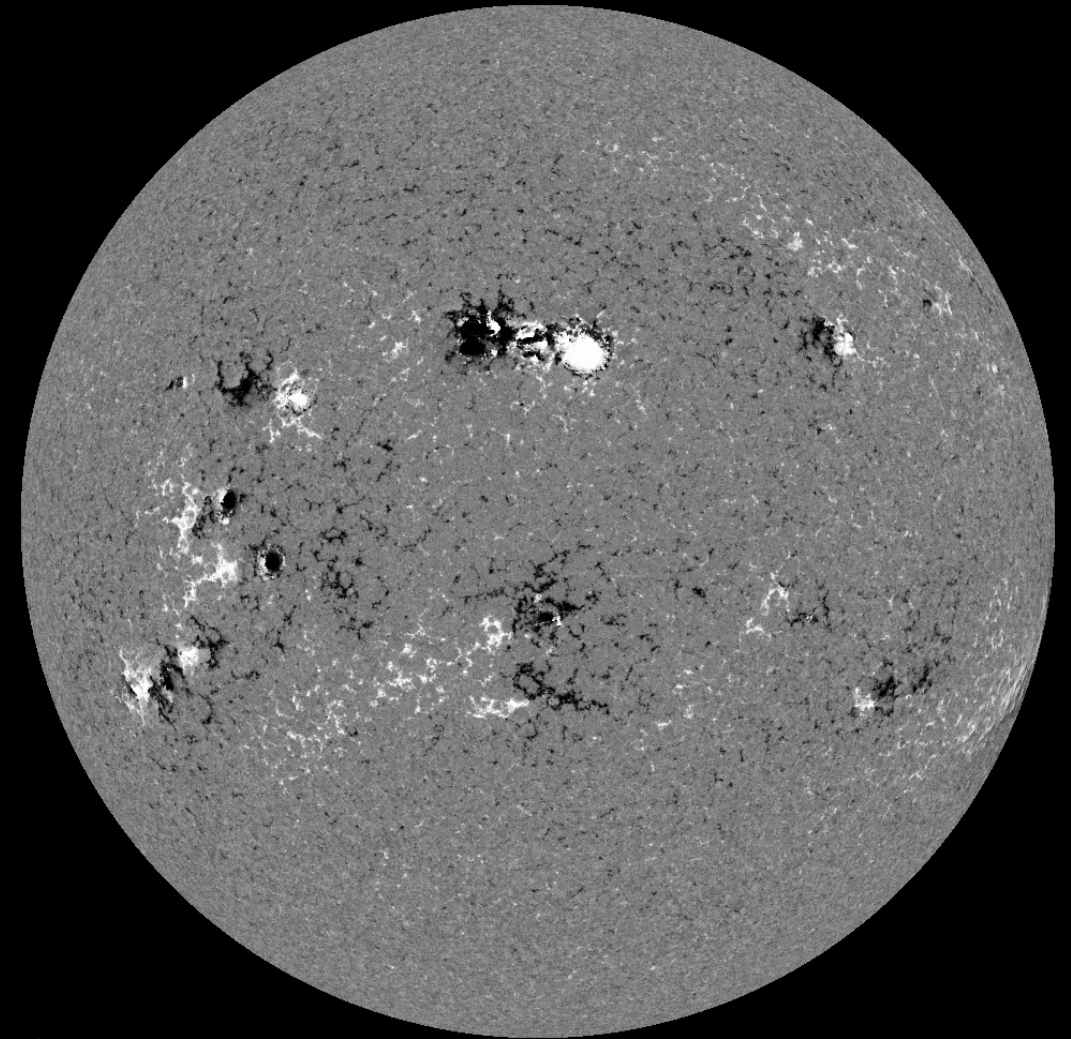
Solar active regions

SDO/HMI White Light 2026-02-04



SDO/HMI Quick-Look Continuum: 20260204_120000

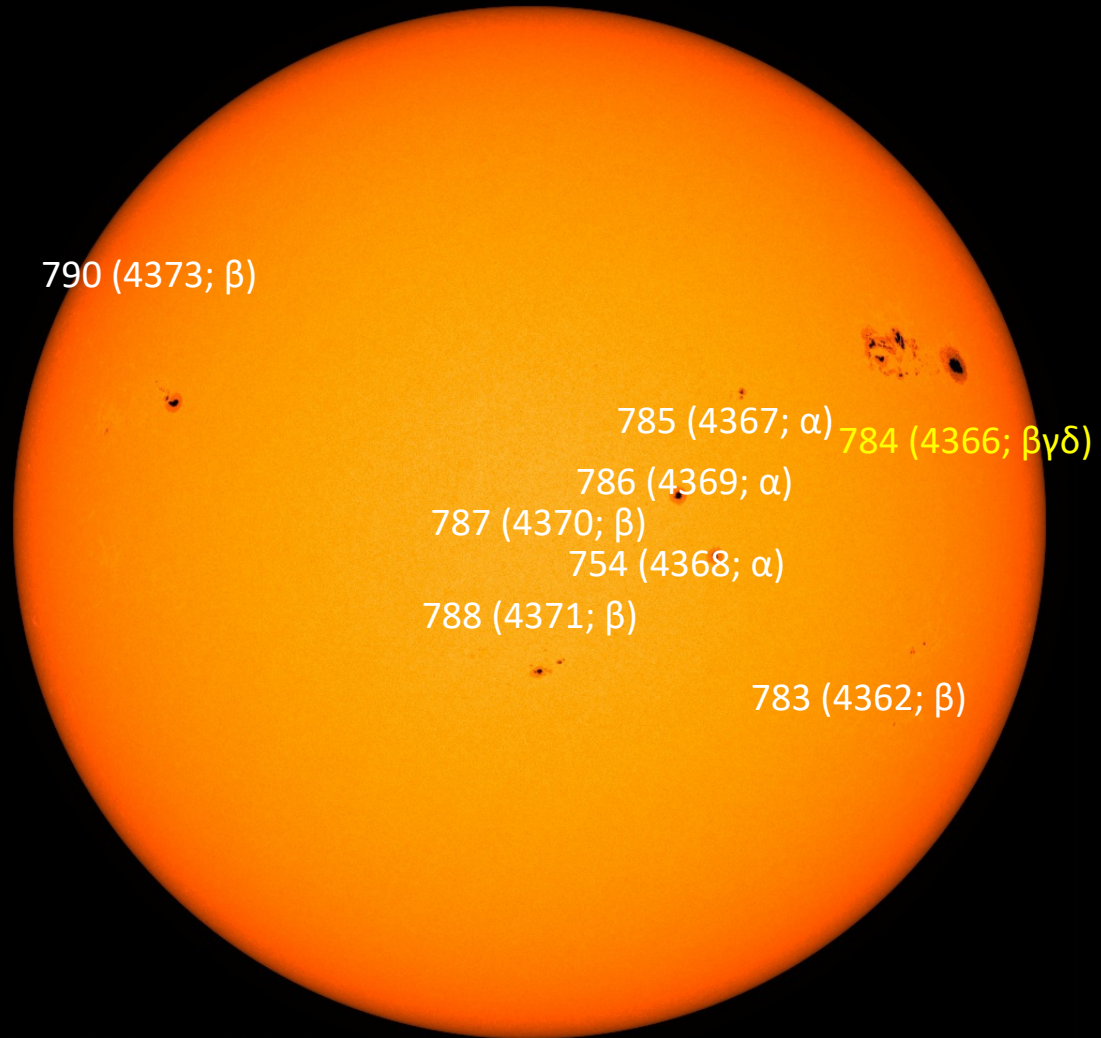
SDO/HMI Magnetogram 2026-02-04



SDO/HMI Quick-Look Magnetogram: 20260204_120000

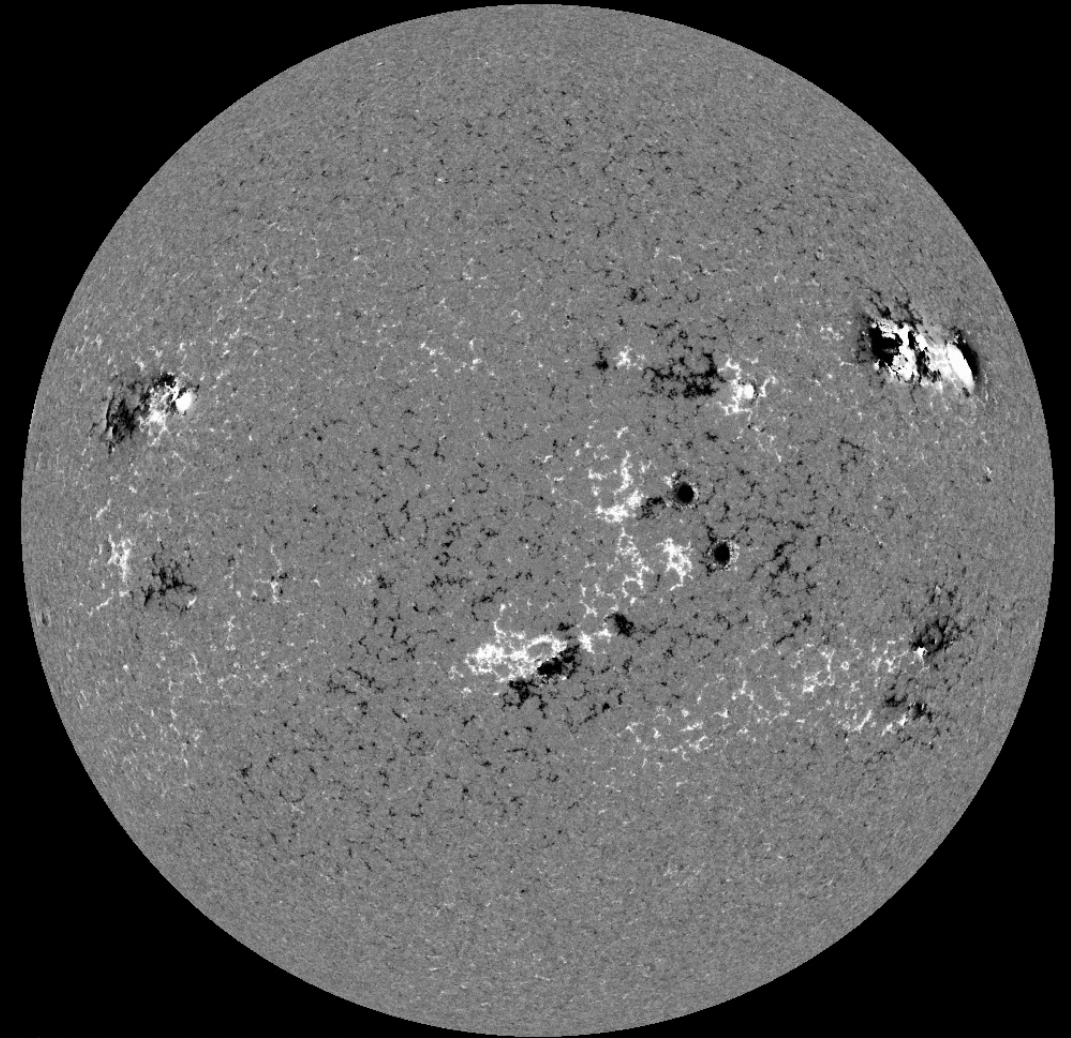
Solar active regions

SDO/HMI White Light 2026-02-08



SDO/HMI Quick-Look Continuum: 20260208_120000

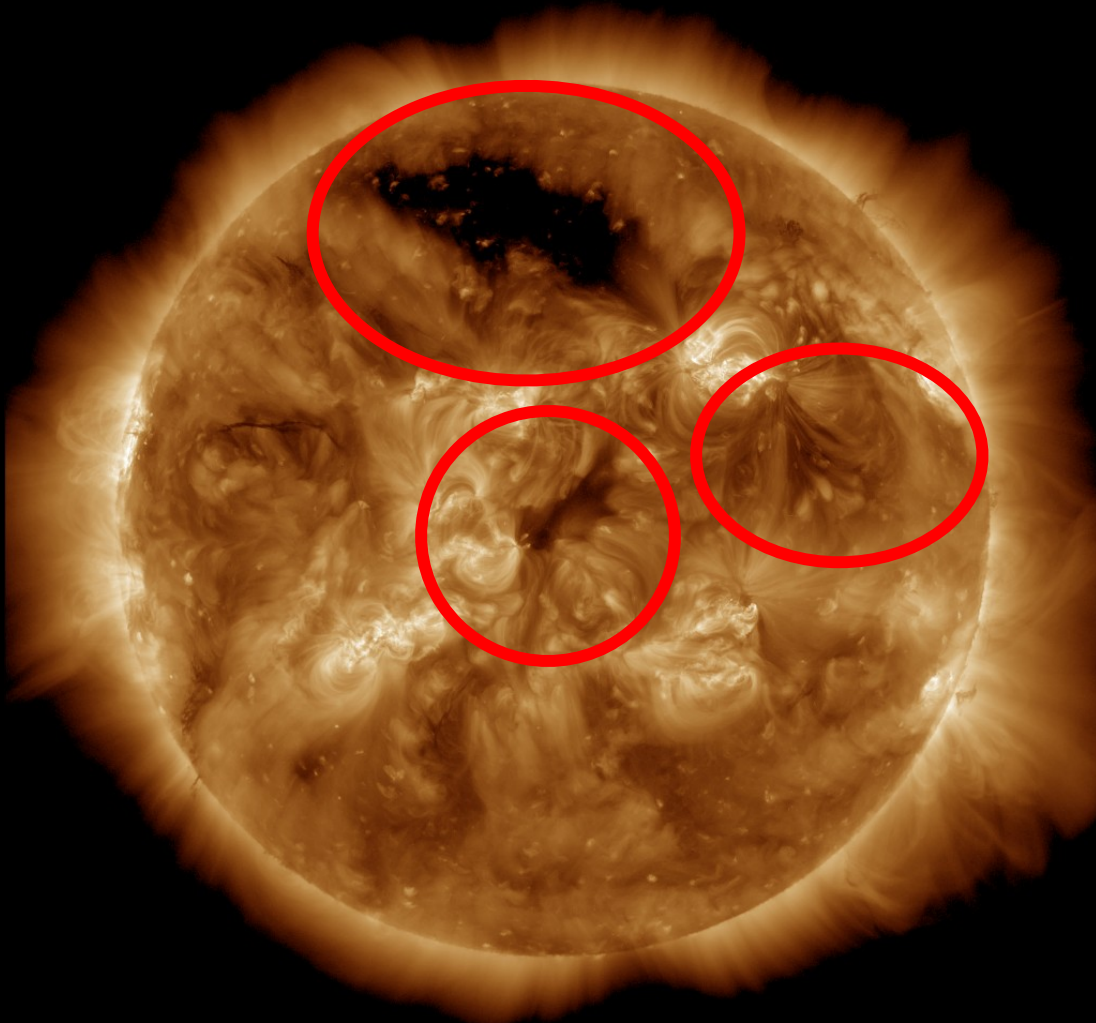
SDO/HMI Magnetogram 2026-02-08



SDO/HMI Quick-Look Magnetogram: 20260208_120000

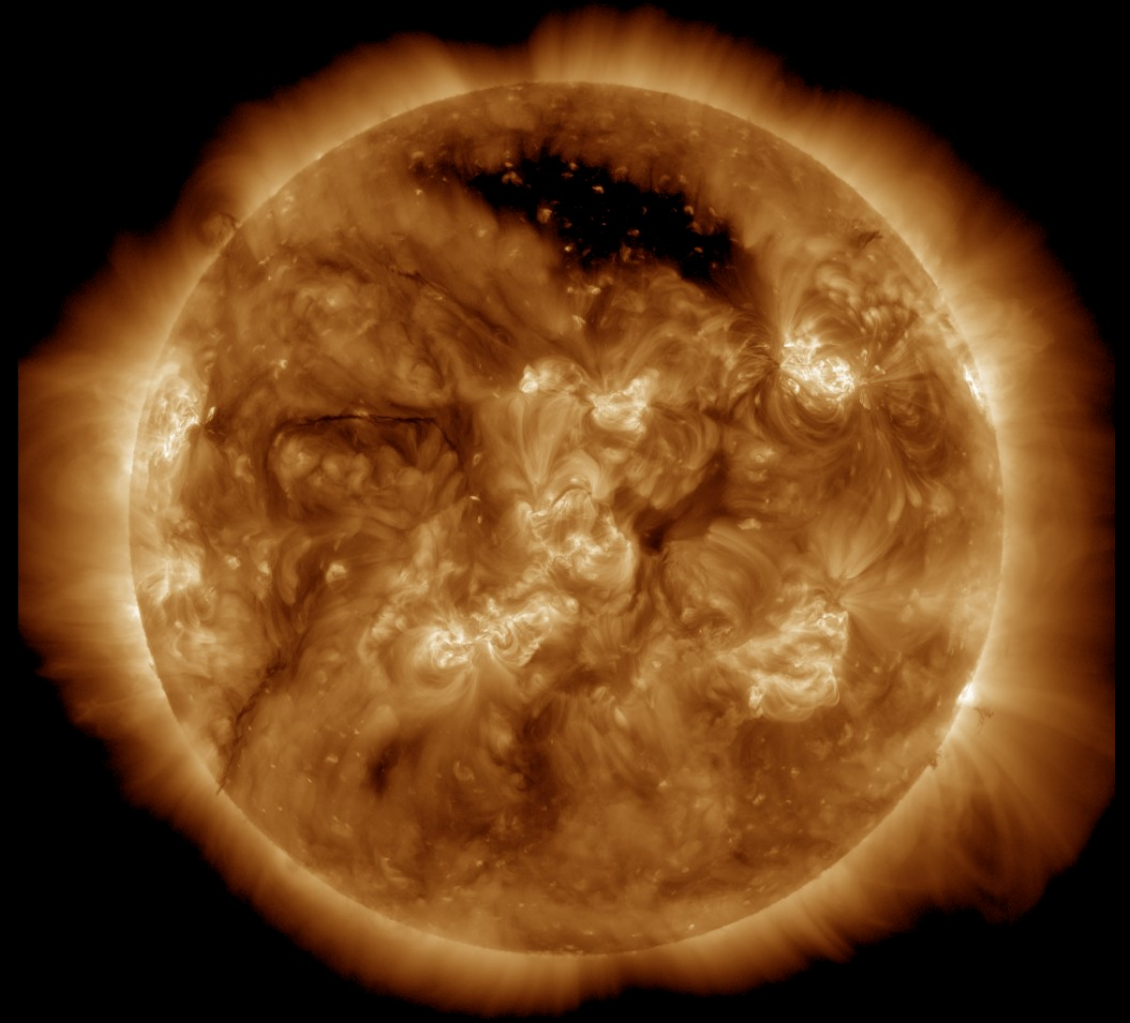
Coronal holes

SDO/AIA 19.3 nm 2026-02-06



SDO/AIA 193 2026-02-06 11:58:53 UT

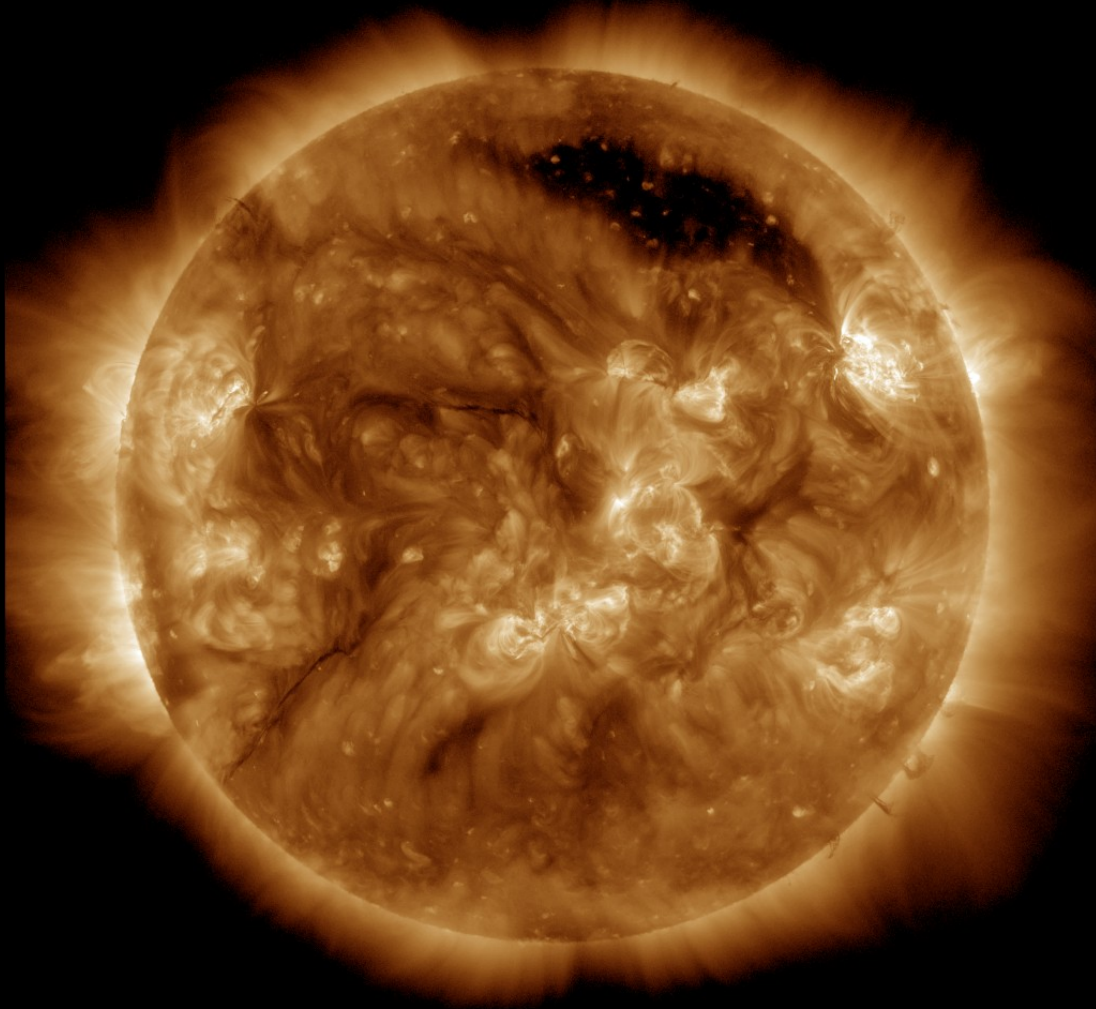
SDO/AIA 19.3 nm 2026-02-07



SDO/AIA 193 2026-02-07 11:57:17 UT

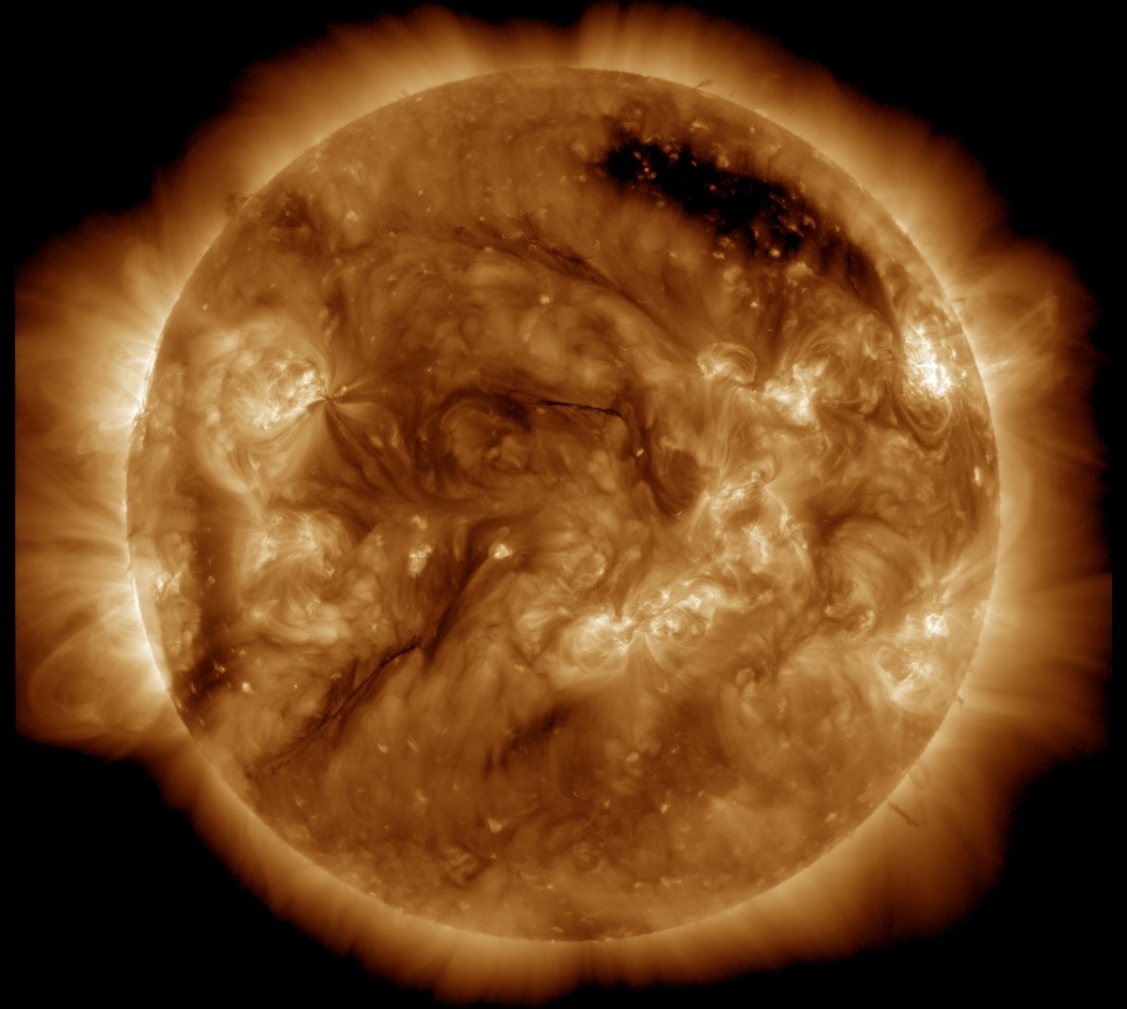
Coronal holes

SDO/AIA 19.3 nm 2026-02-08



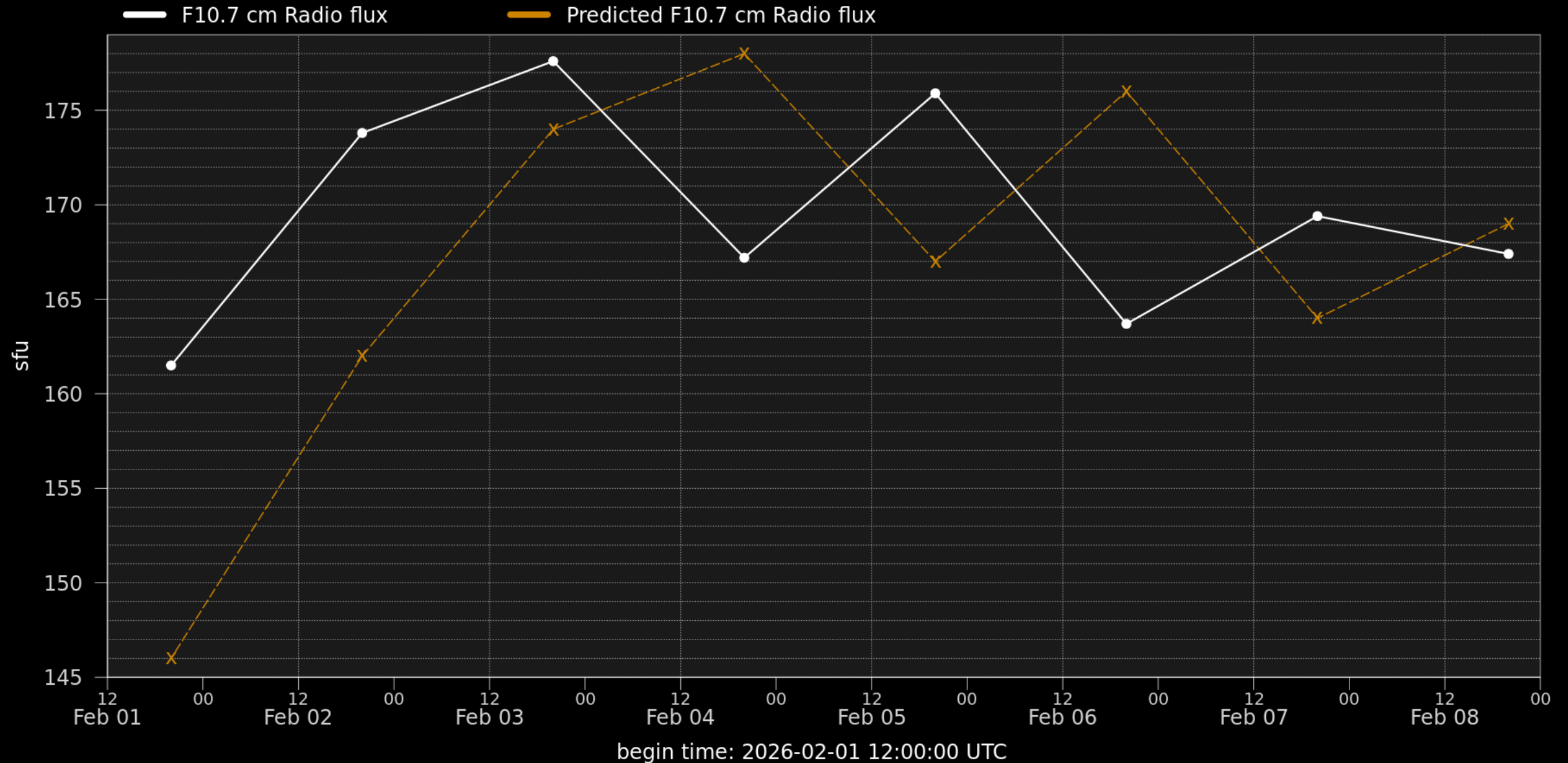
SDO/AIA 193 2026-02-08 11:57:43 UT

SDO/AIA 19.3 nm 2026-02-09

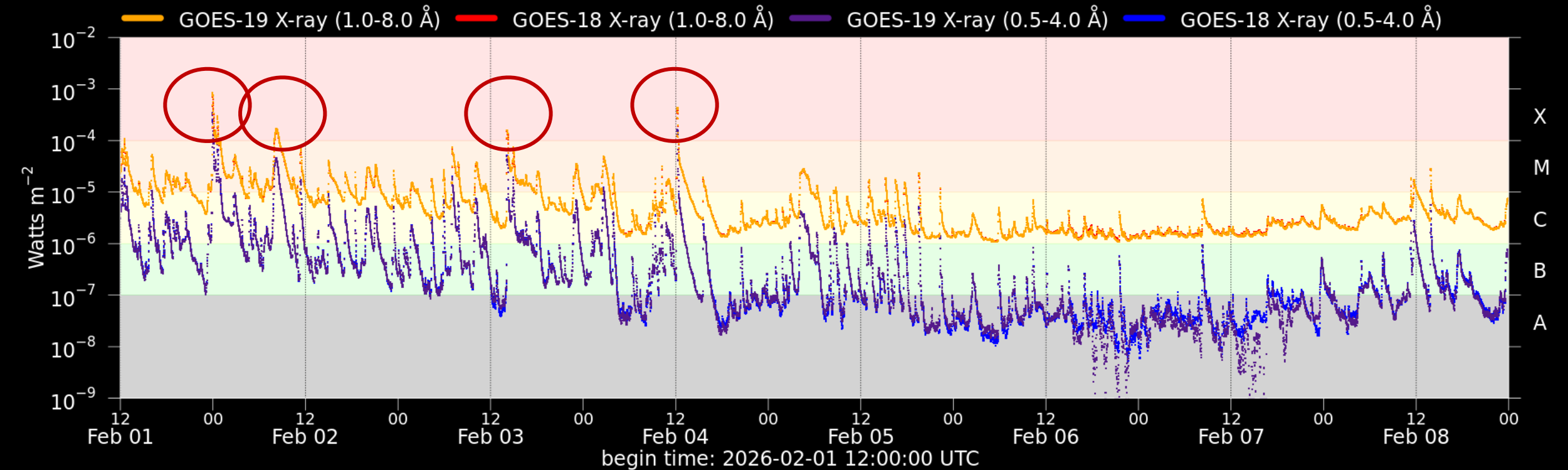


SDO/AIA 193 2026-02-09 07:46:29 UT

Solar F10.7cm radio flux



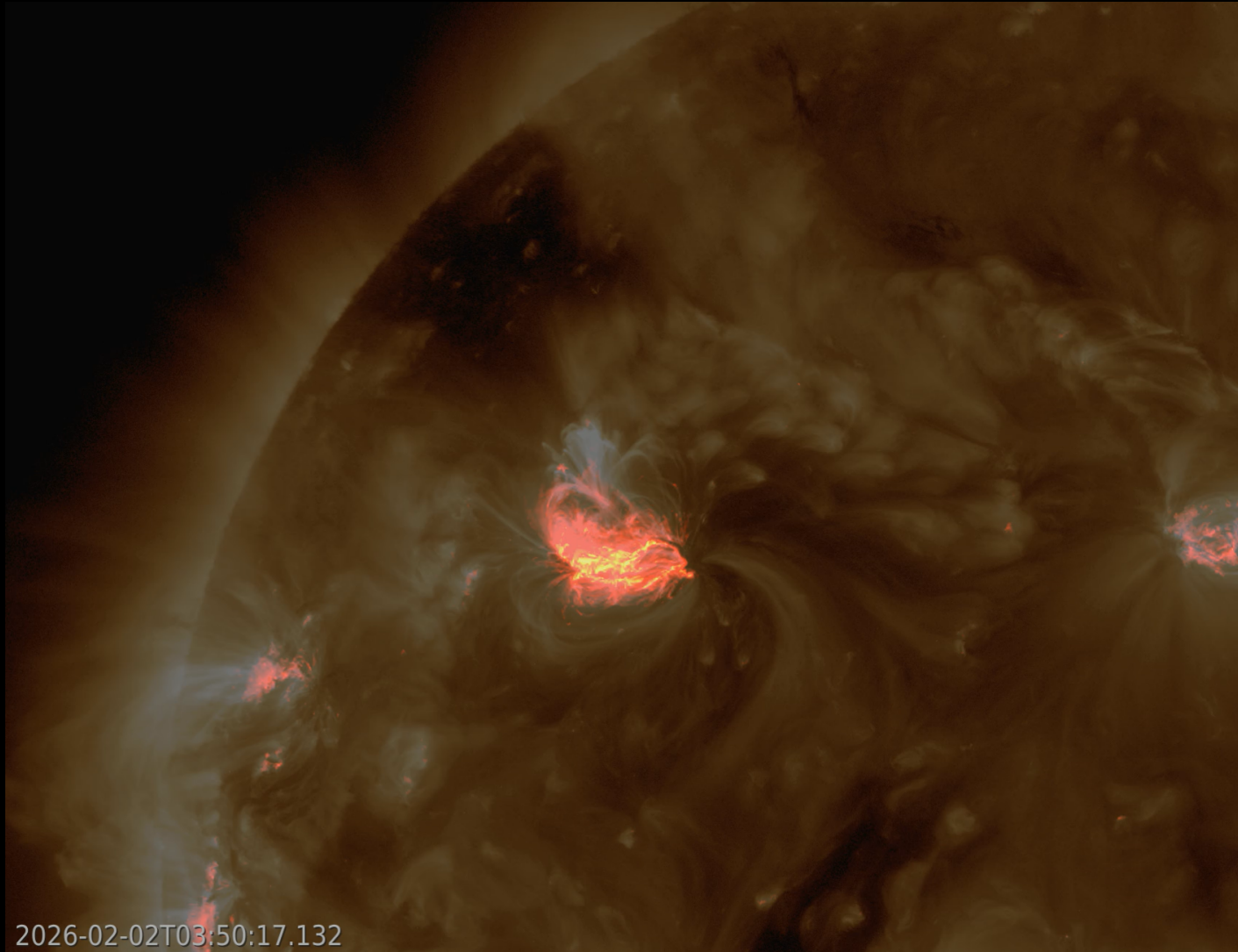
Flaring activity



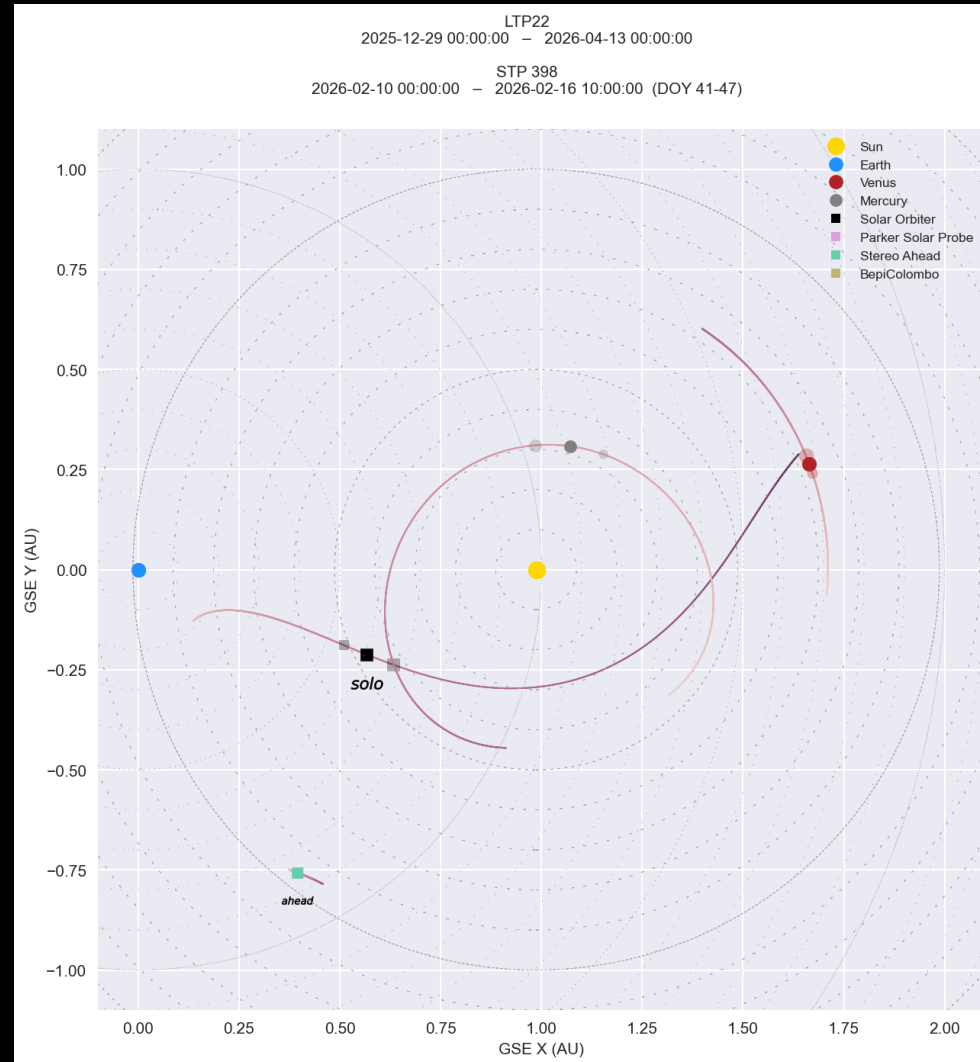
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2026-02-01	2026-02-02	2026-02-03	2026-02-04	2026-02-05	2026-02-06	2026-02-07	2026-02-08
Probability (%)	99 70 10	99 65 18	99 84 18	99 84 25	99 84 30	99 84 30	99 83 30	99 84 18
Observed (#)	00 14 04	03 12 00	06 09 01	08 04 01	06 06 00	07 00 00	02 02 00	05 02 00

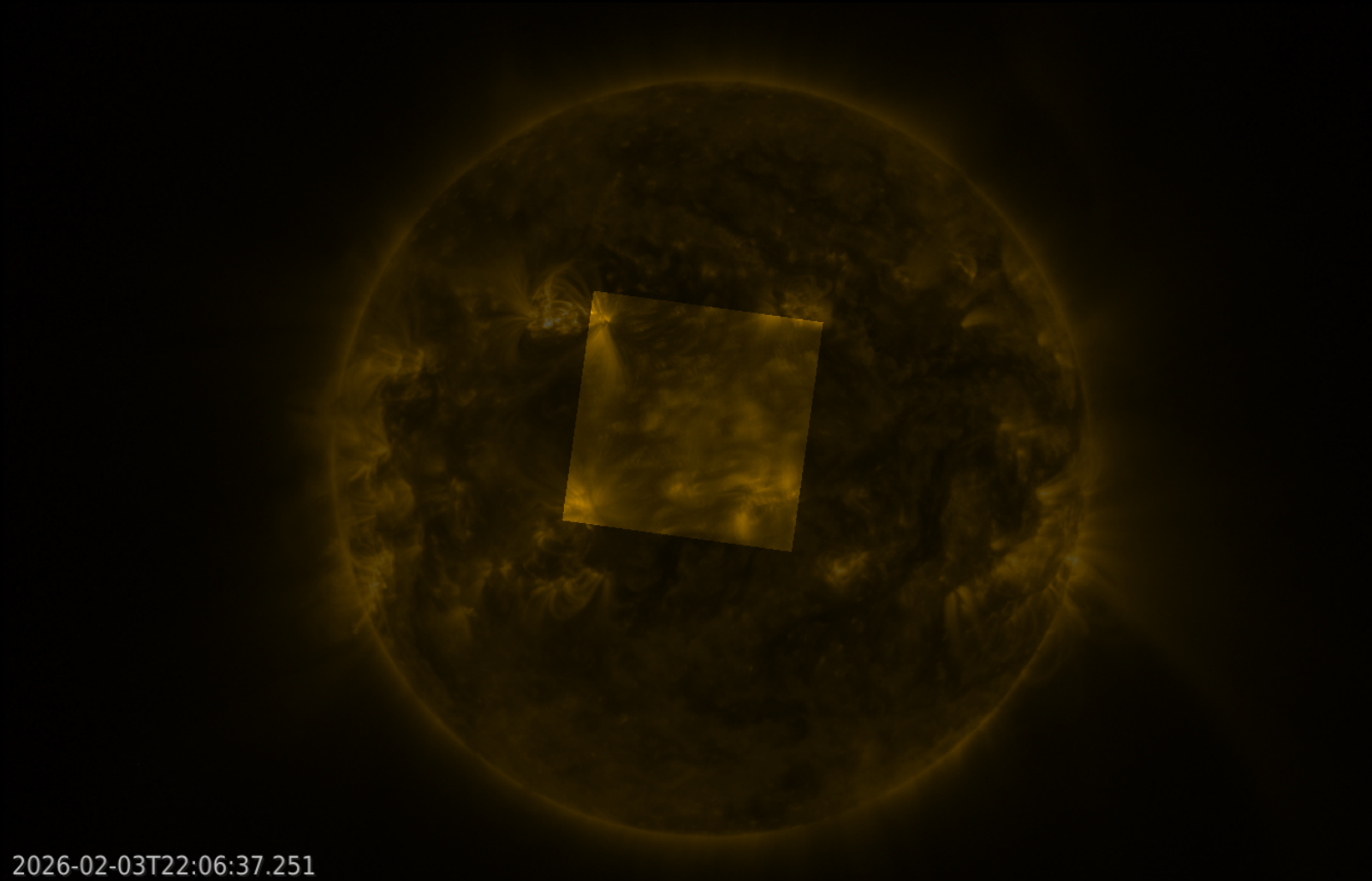
Flaring activity



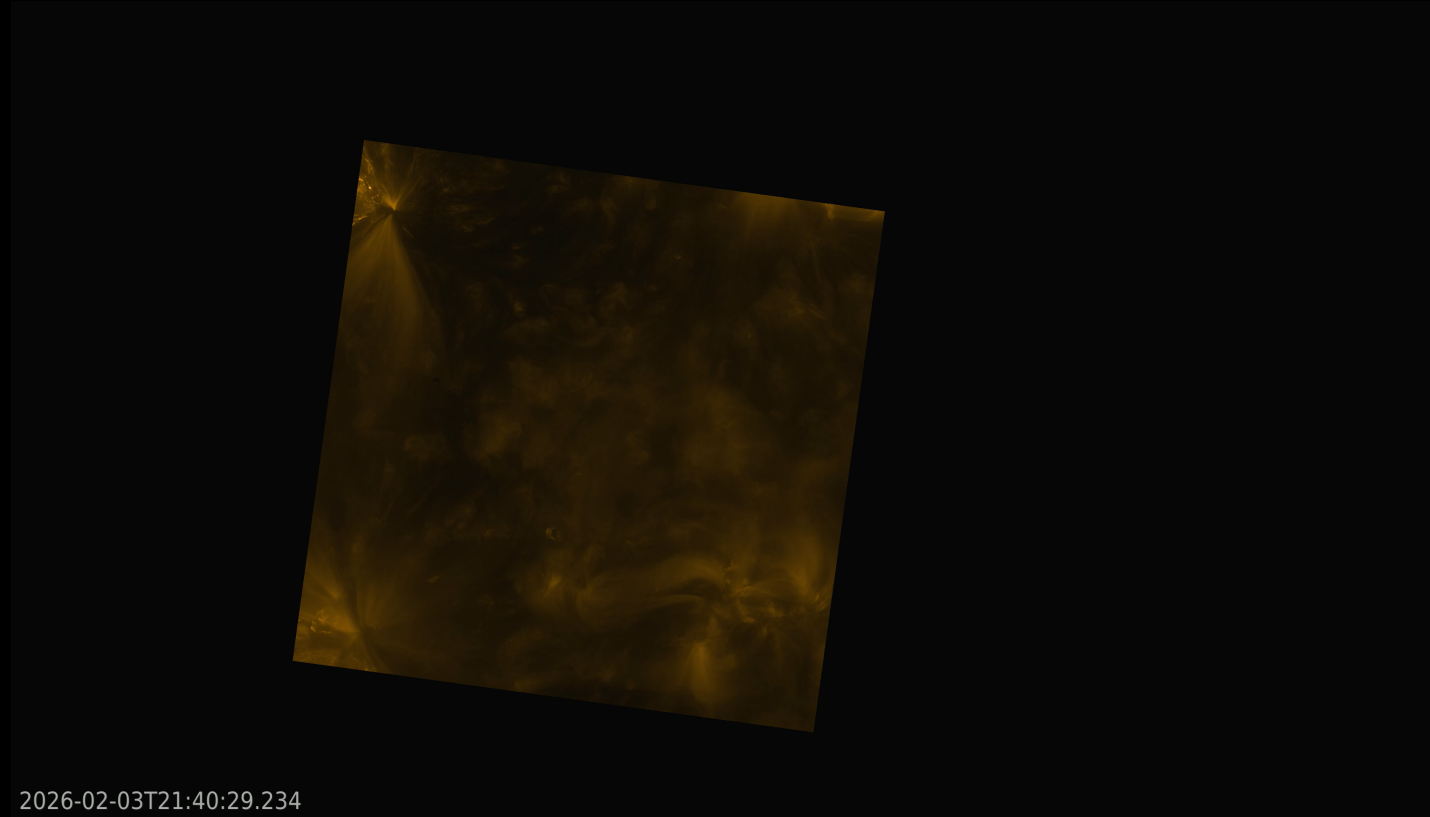
Flaring activity from Solar Orbiter



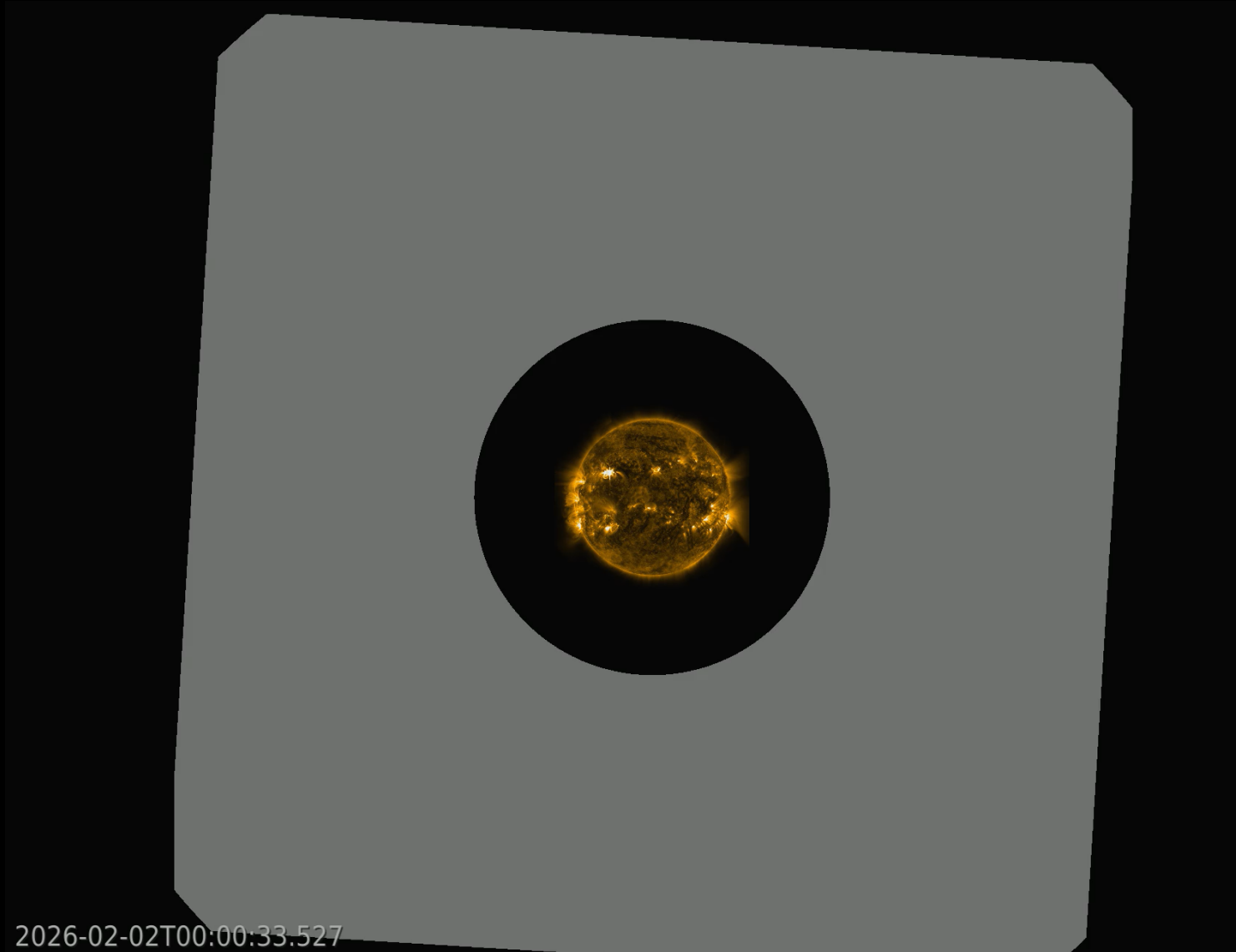
Flaring activity from Solar Orbiter



Flaring activity from Solar Orbiter



Coronal Mass Ejections

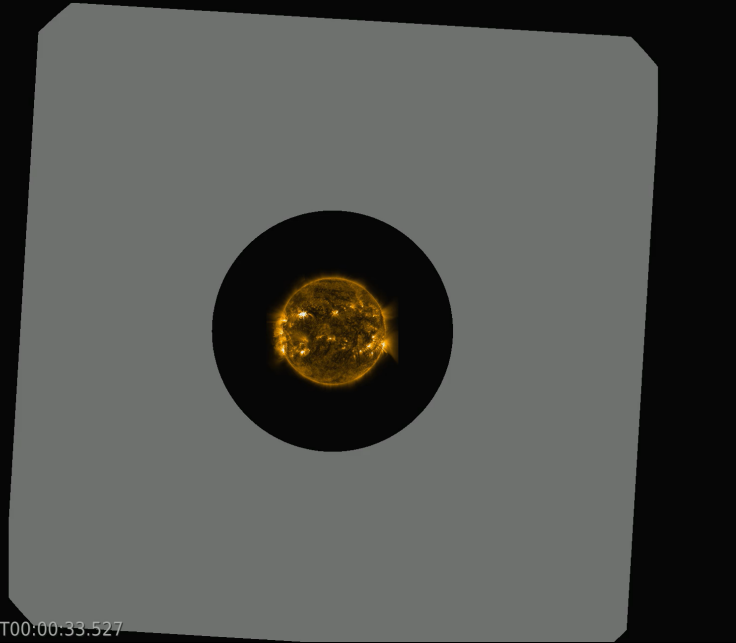


2026-02-02T00:00:33.527

Coronal Mass Ejections Solar Orbiter



Coronal Mass Ejections



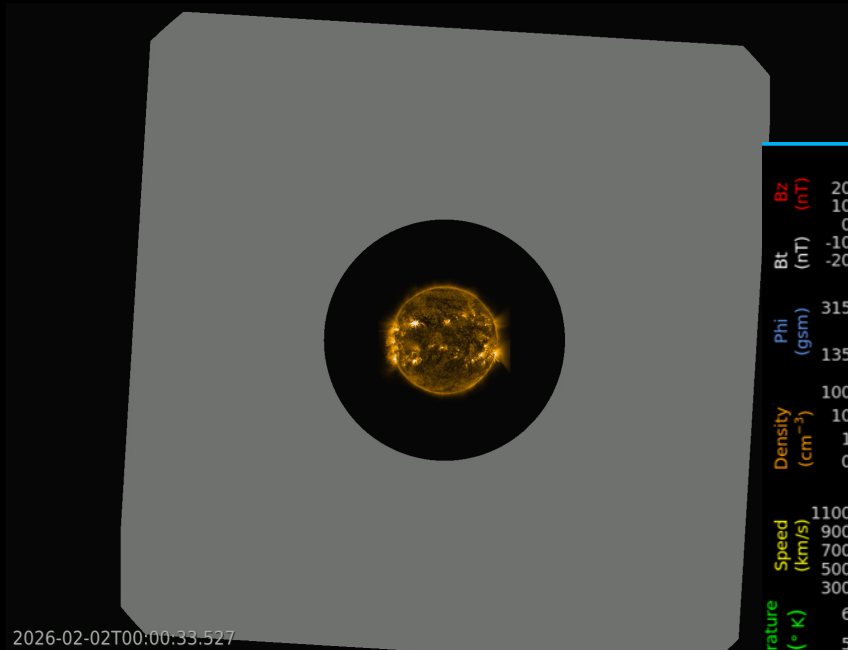
Data

- _CME 3D speed: 700 km/s
- _From N14E23

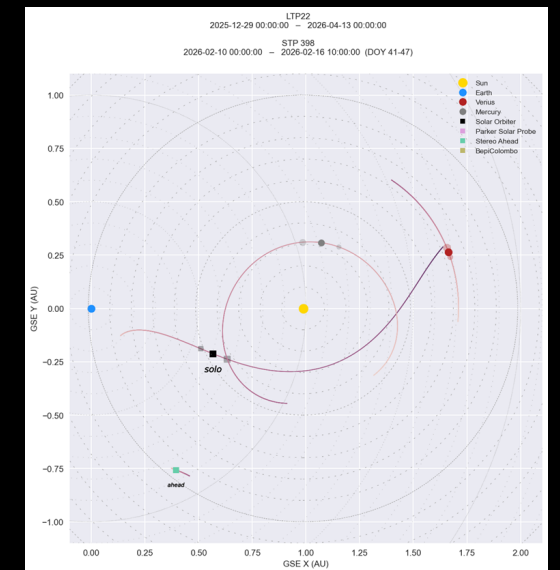
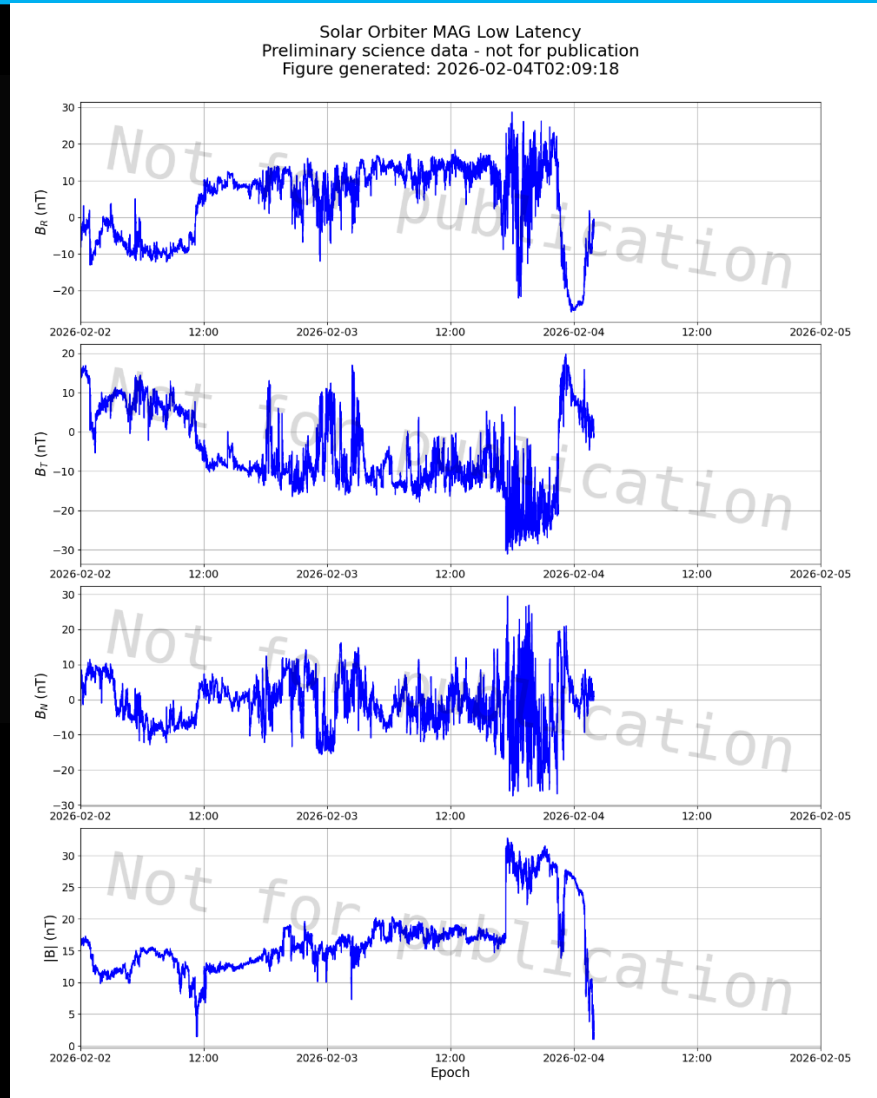
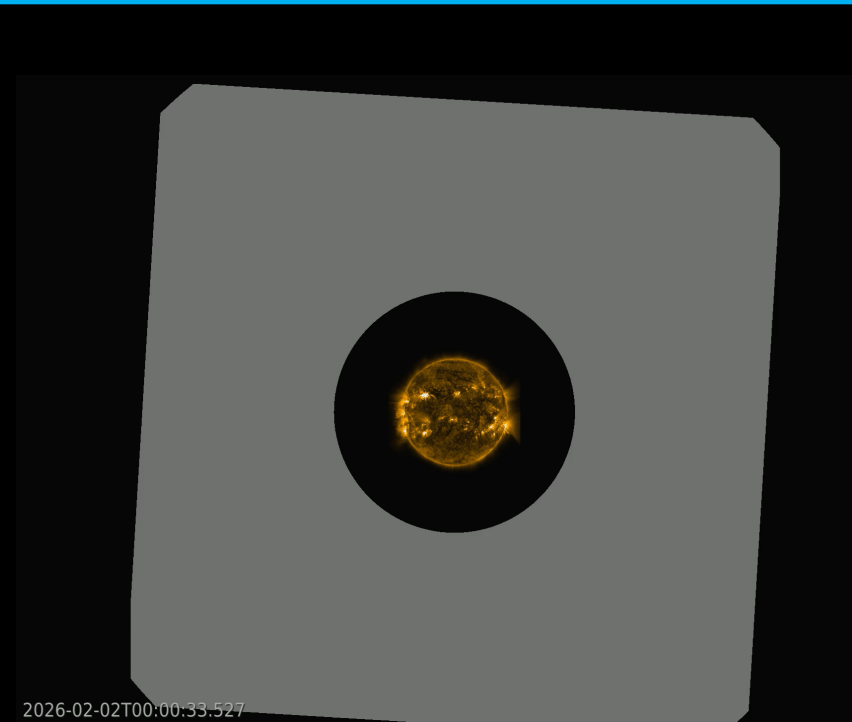
Forecast

- _Estimated arrival time: 2026-02-02T12:00:00.000
- _Estimated K: 5

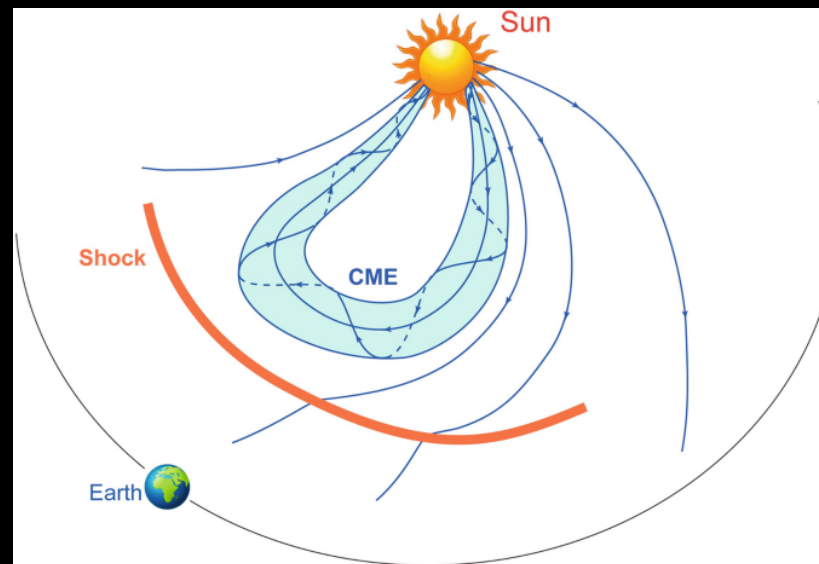
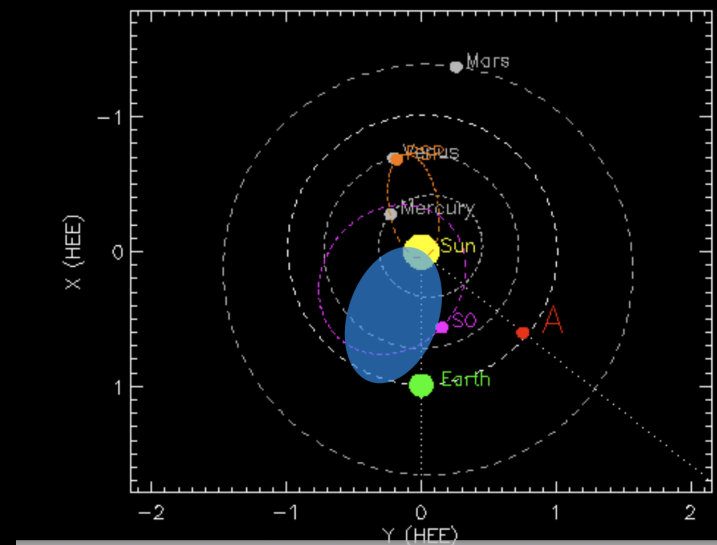
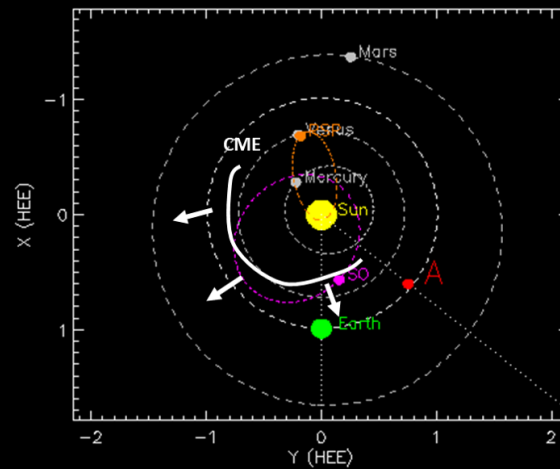
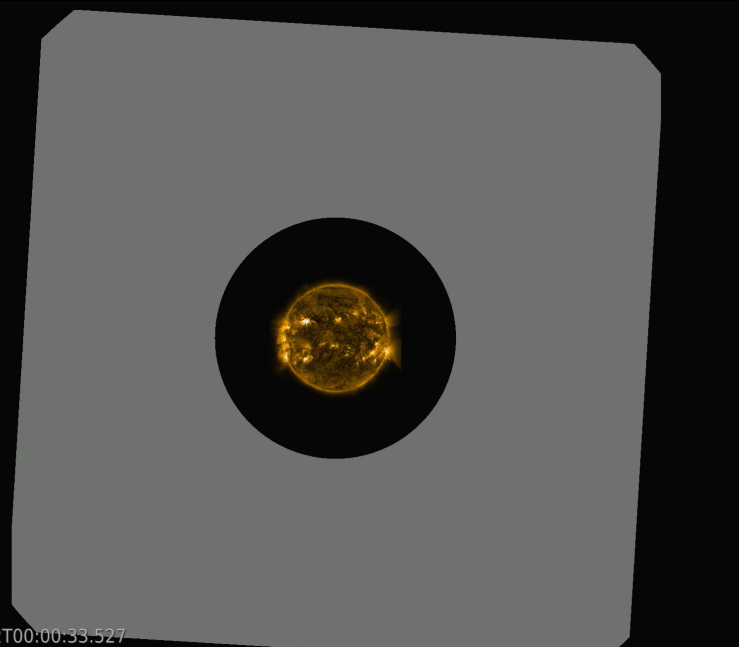
Coronal Mass Ejections



Coronal Mass Ejections



Coronal Mass Ejections



Solar Wind and

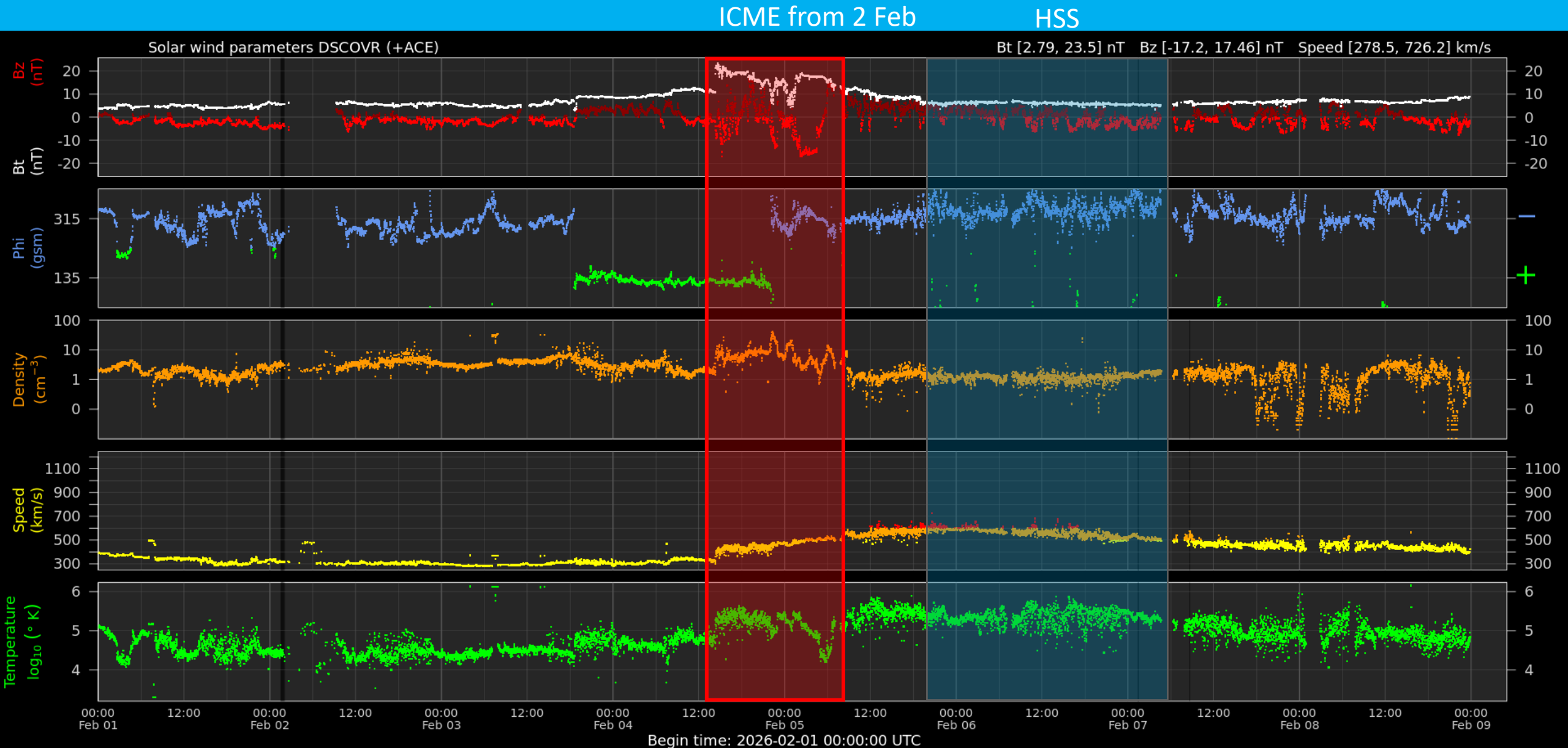
Geomagnetic Activity



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Solar wind parameters



Solar wind parameters & K-indices

ICME from 2 Feb

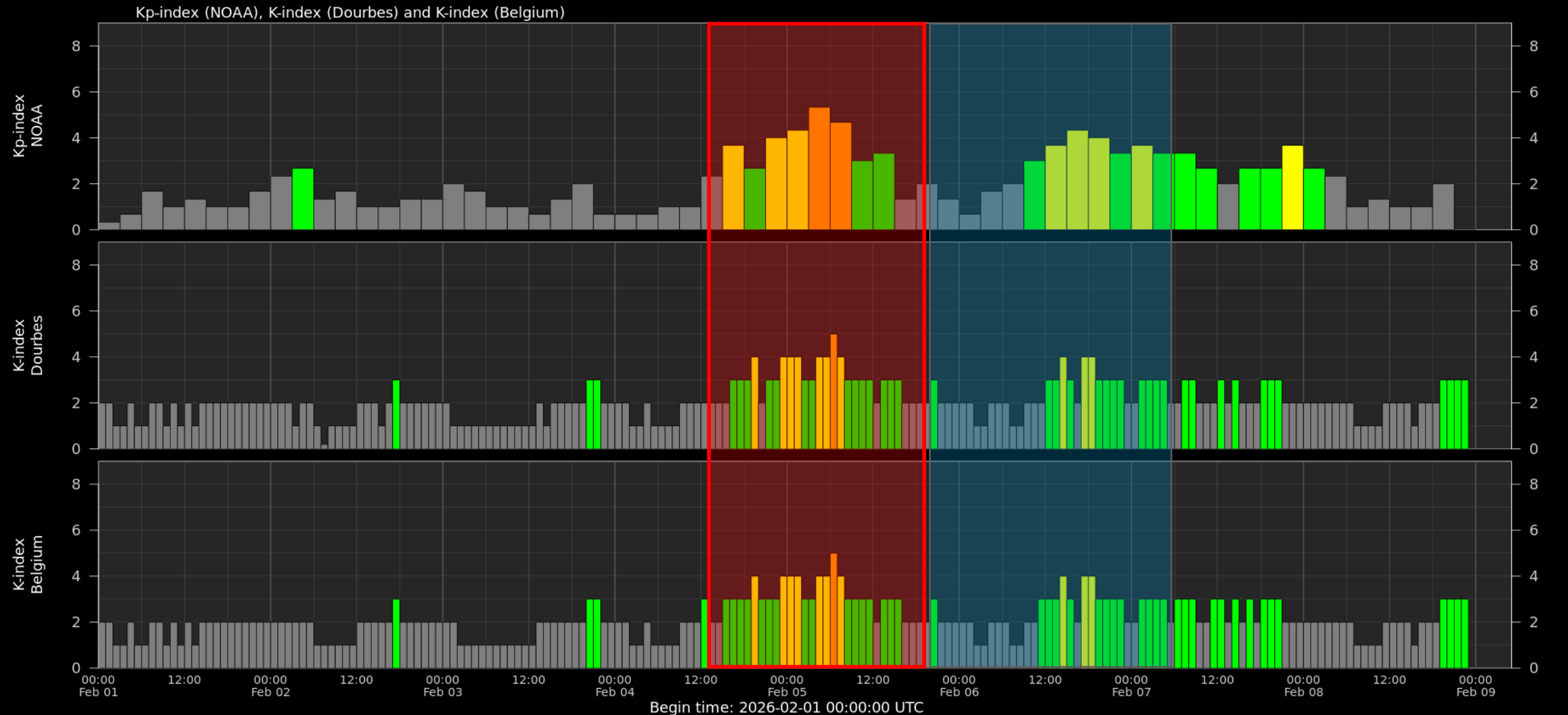
HSS



Geomagnetic activity (K-indexes)

ICME from 2 Feb

HSS



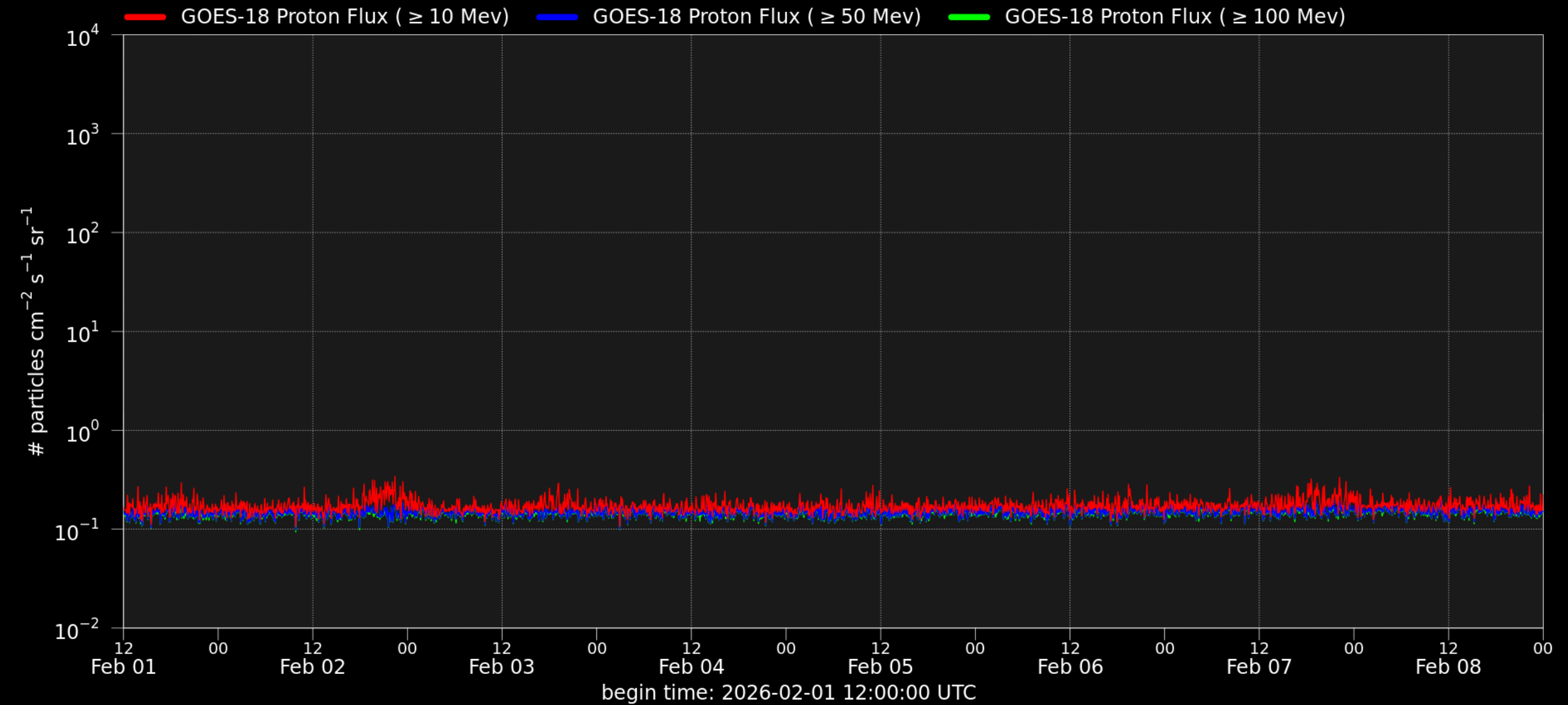
Energetic Particles



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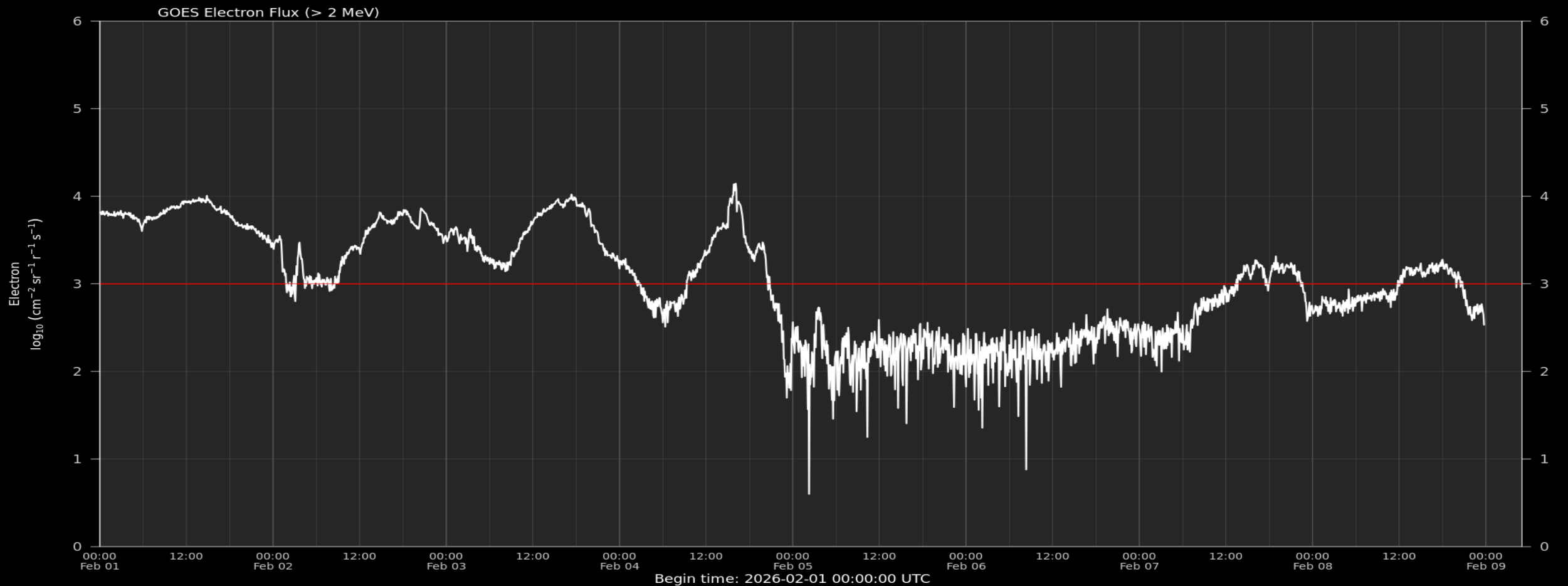
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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



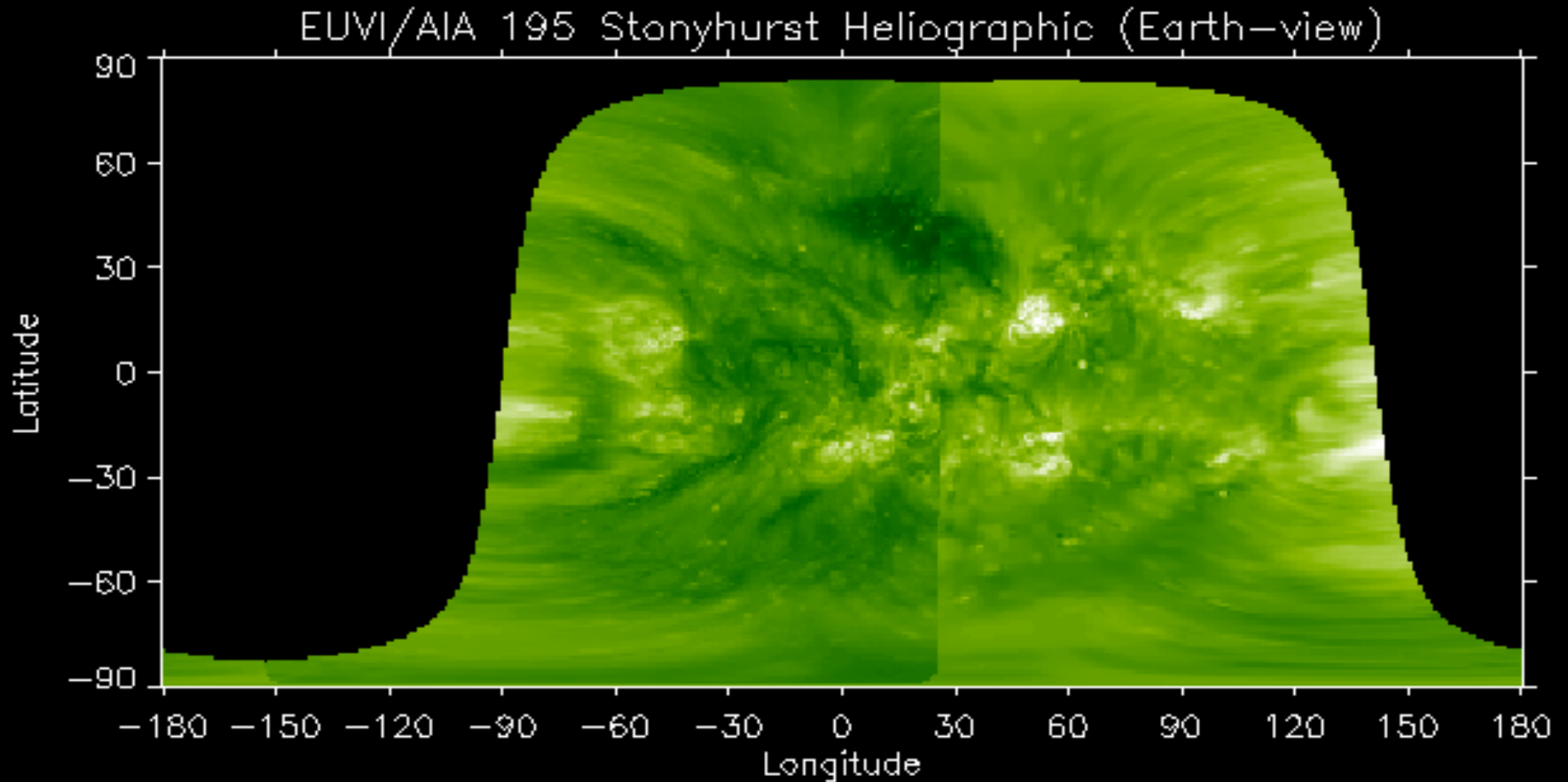
Outlook



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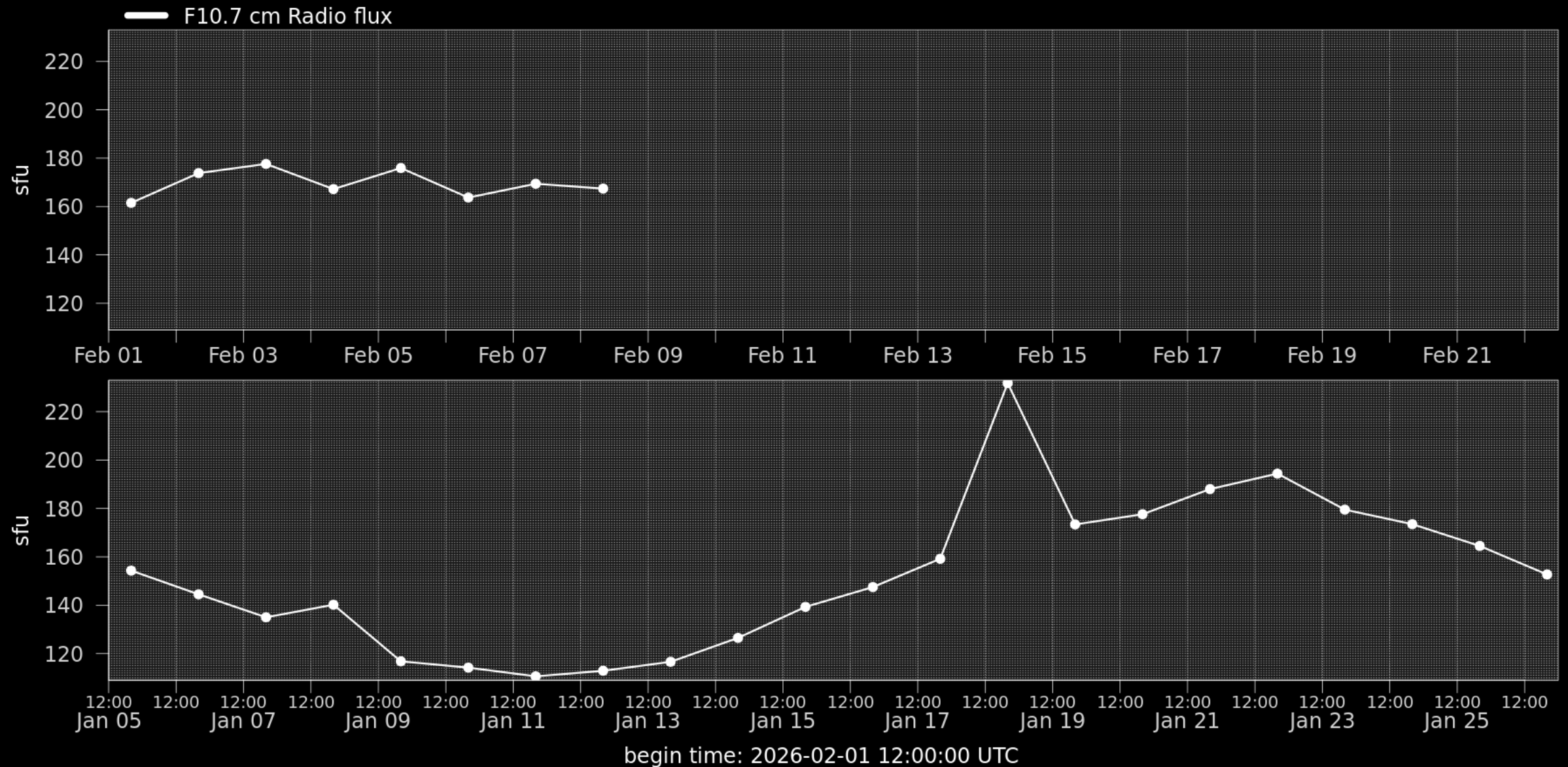
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Outlook: Solar activity

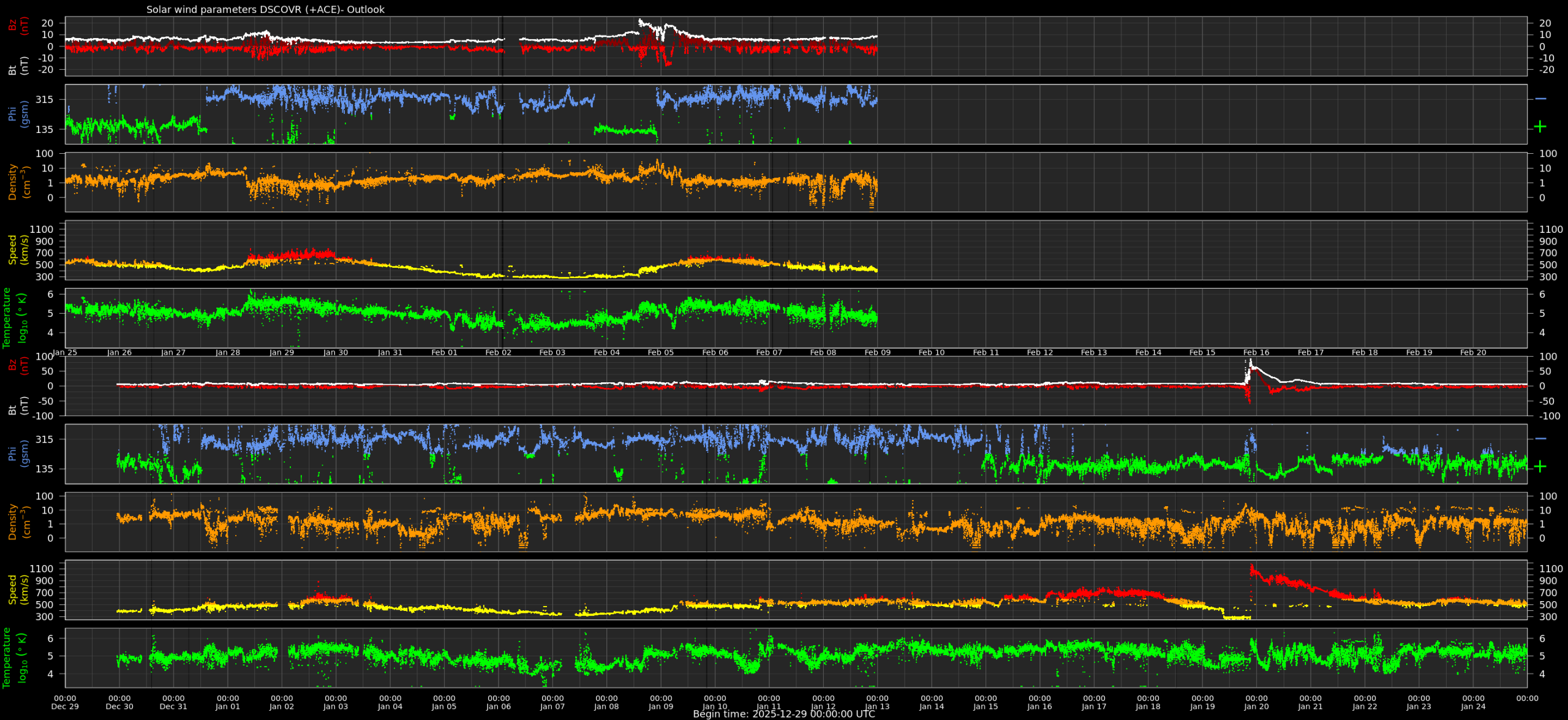


Observation date: 2026/02/08 18:25:00

Outlook: Solar F10.7cm radio flux



Outlook: Solar wind parameters



Outlook: Geomagnetic activity



PECASUS



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Pegasus related events

Short-wave fadeout advisories (X-flares)

Scintillation advisories

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