

SIDC Space Weather Briefing

12 January 2026-18 January 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 2026-01-12 00:00 to 2026-01-18 23:59

Active regions	9 Sunspot groups – SIDC SSG 740 (AR 4341) most active
Flares	# C-class flare: 25 # M-class flare: 3 # X-class flare: 1
Coronal Holes	1 CH- and 1 CH+
CMEs	Earth directed CME JAN 18 18:12 UTC

Proton flux	Above 10 PFU since JAN 18 22:50 UTC and rising
Electron flux	Above 1000 PFU since JAN 12 10:45 UTC

Solar wind and geomagnetic conditions

ICMEs	No new ICME arrivals
Solar wind conditions	B : 0.52 - 13 nT //Bz: -11.64 nT to 11.76 nT //Speed: 428.4 - 770km/s
Geomagnetic conditions	max K _{Be} : 5.0, max K _p (NOAA): 5.33, Minor Storm conditions (JAN 16 PM – JAN 17 AM)

All Quiet Alert: Not all quiet

Solar Activity

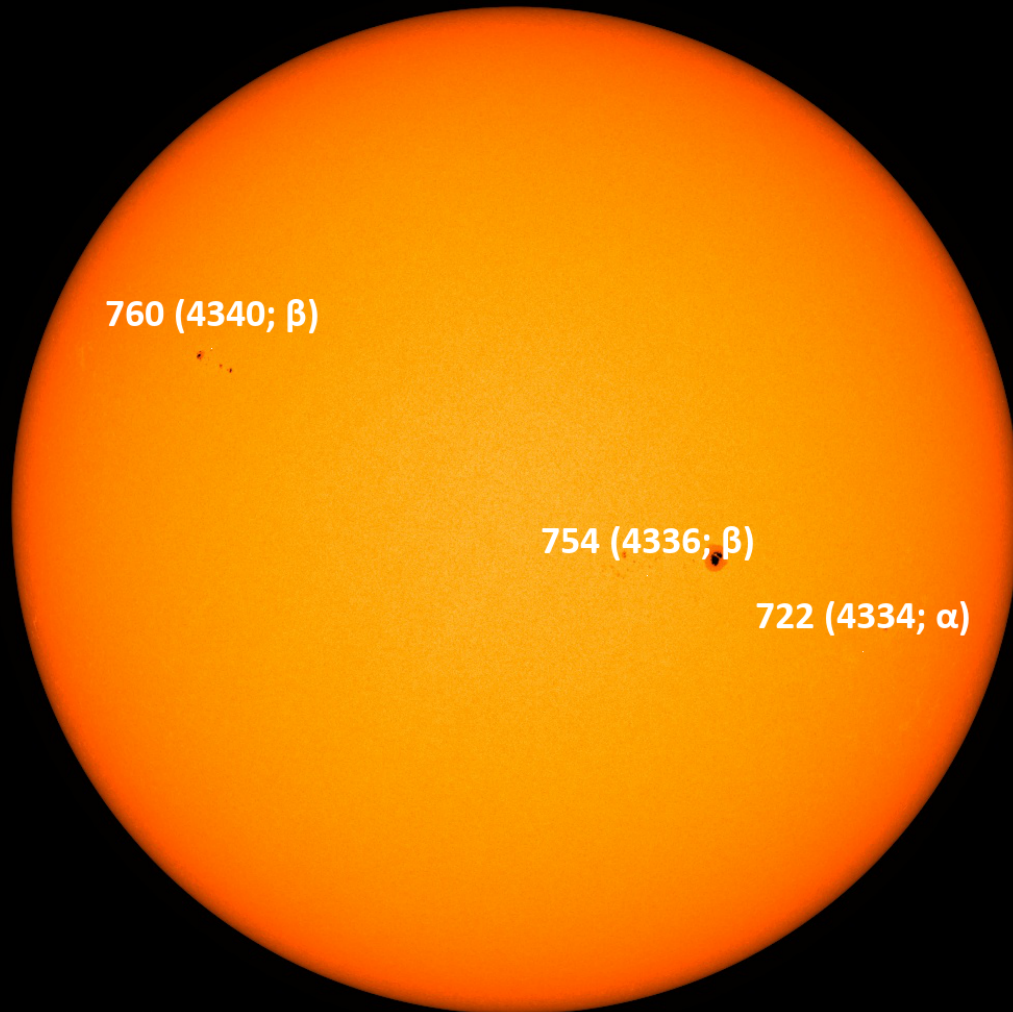


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Solar active regions

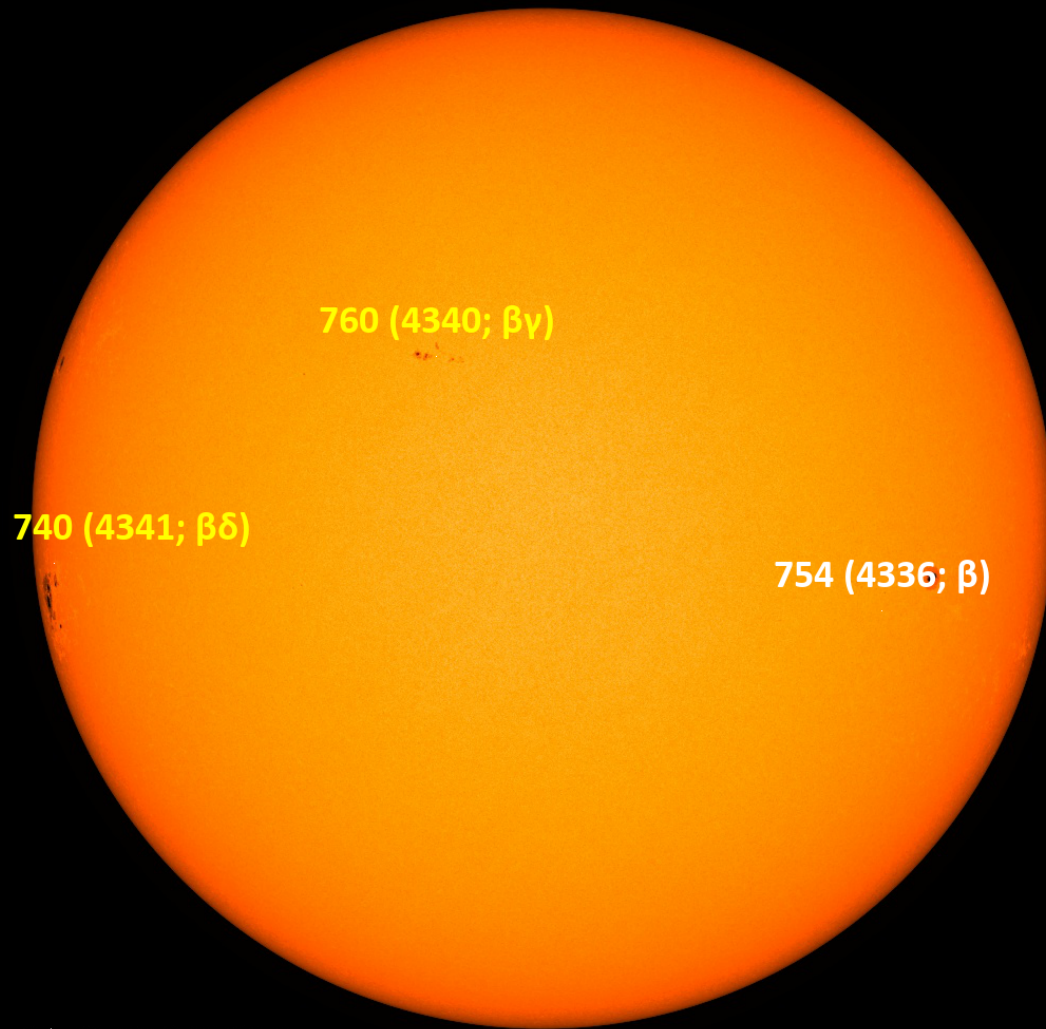
SDO/HMI White Light 2026-01-12



SDO/HMI Continuum: 20260112_120000

Solar active regions

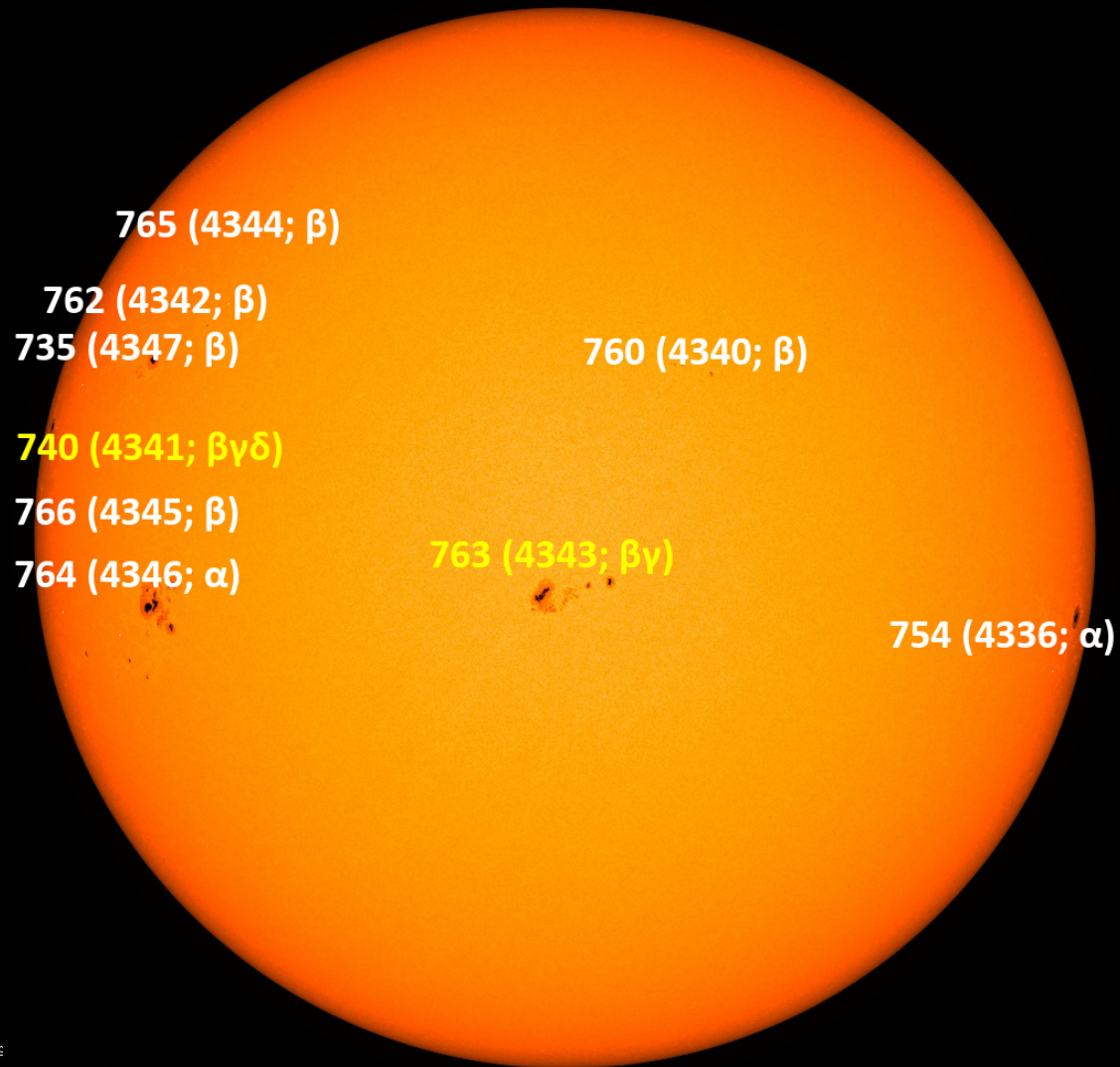
SDO/HMI White Light 2026-01-14



SDO/HMI Continuum: 20260114_120000

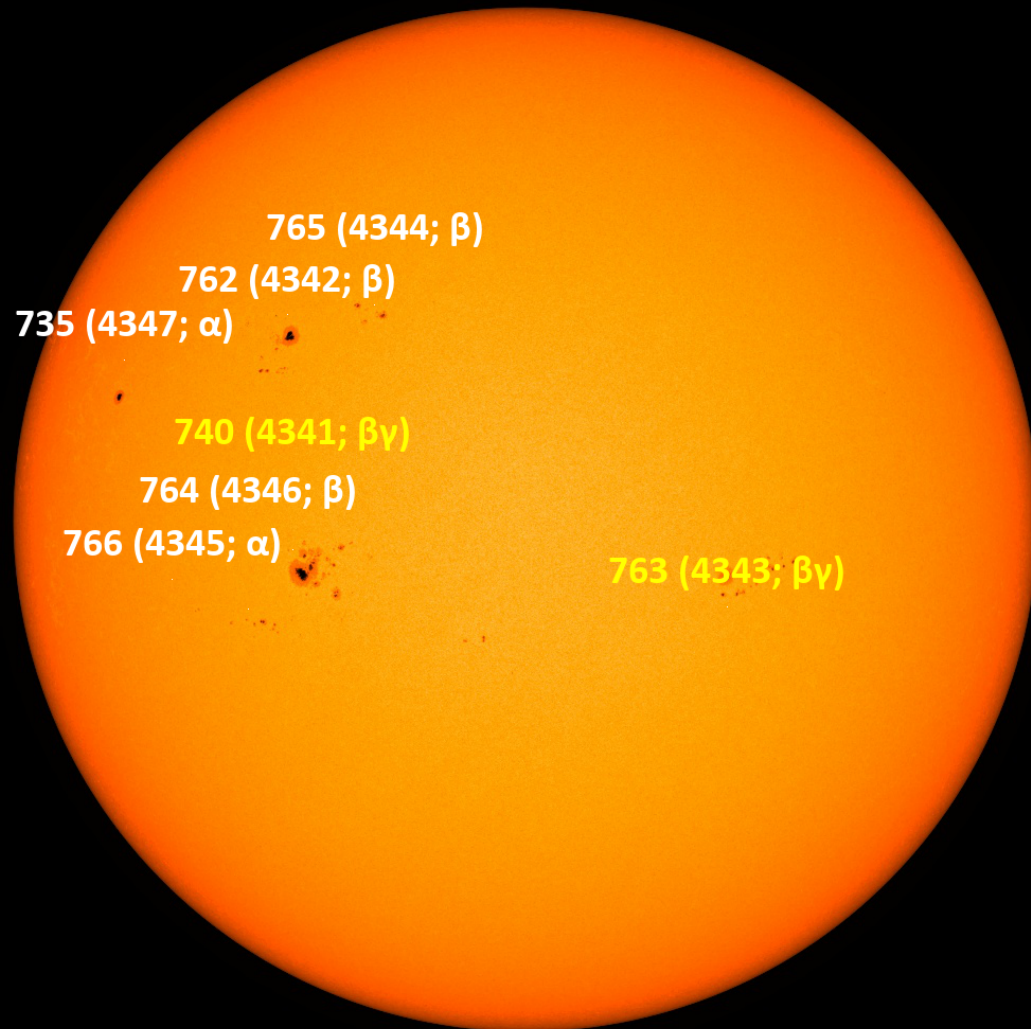
Solar active regions

SDO/HMI White Light 2026-01-16



Solar active regions

SDO/HMI White Light 2026-01-18

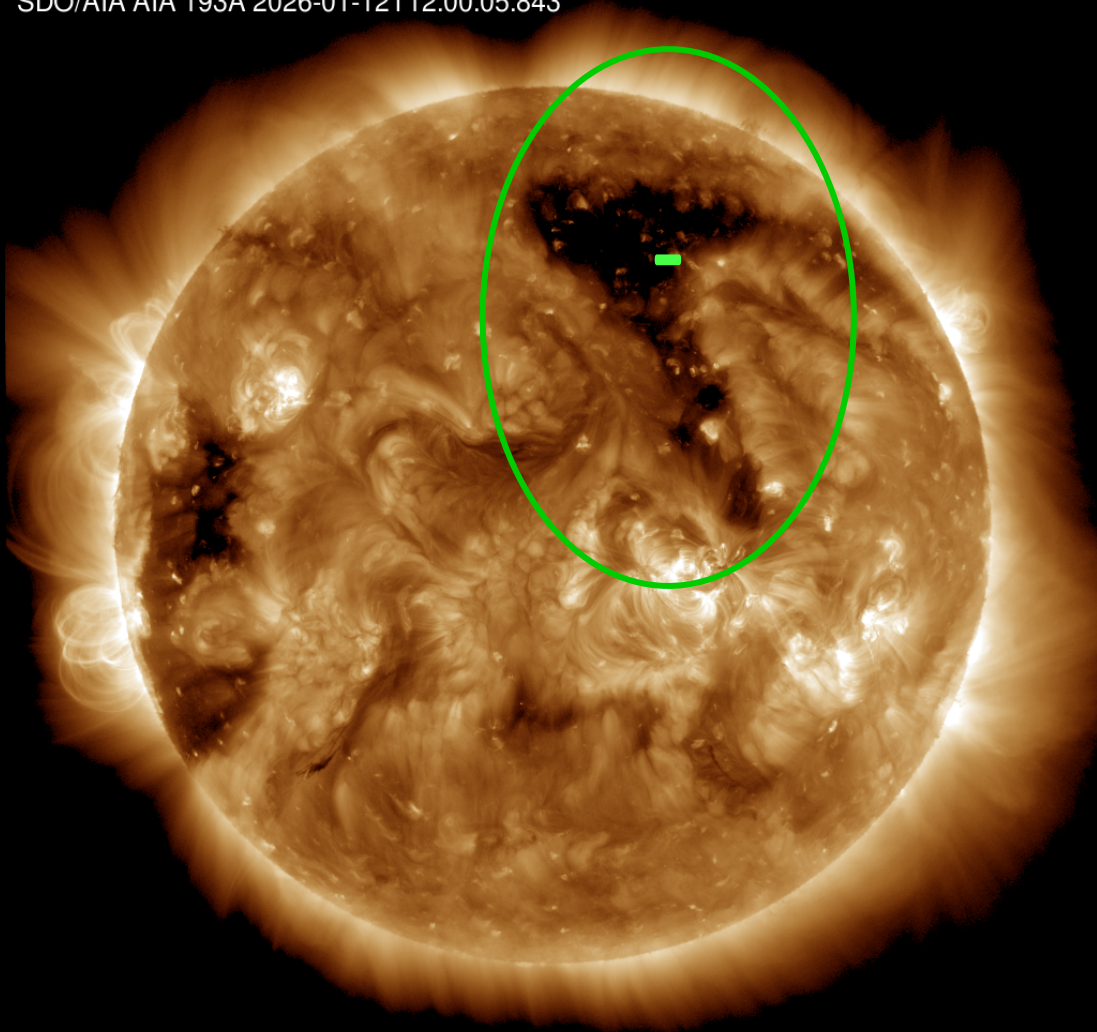


SDO/HMI Quick-Look Continuum: 20260118_120000

Coronal holes

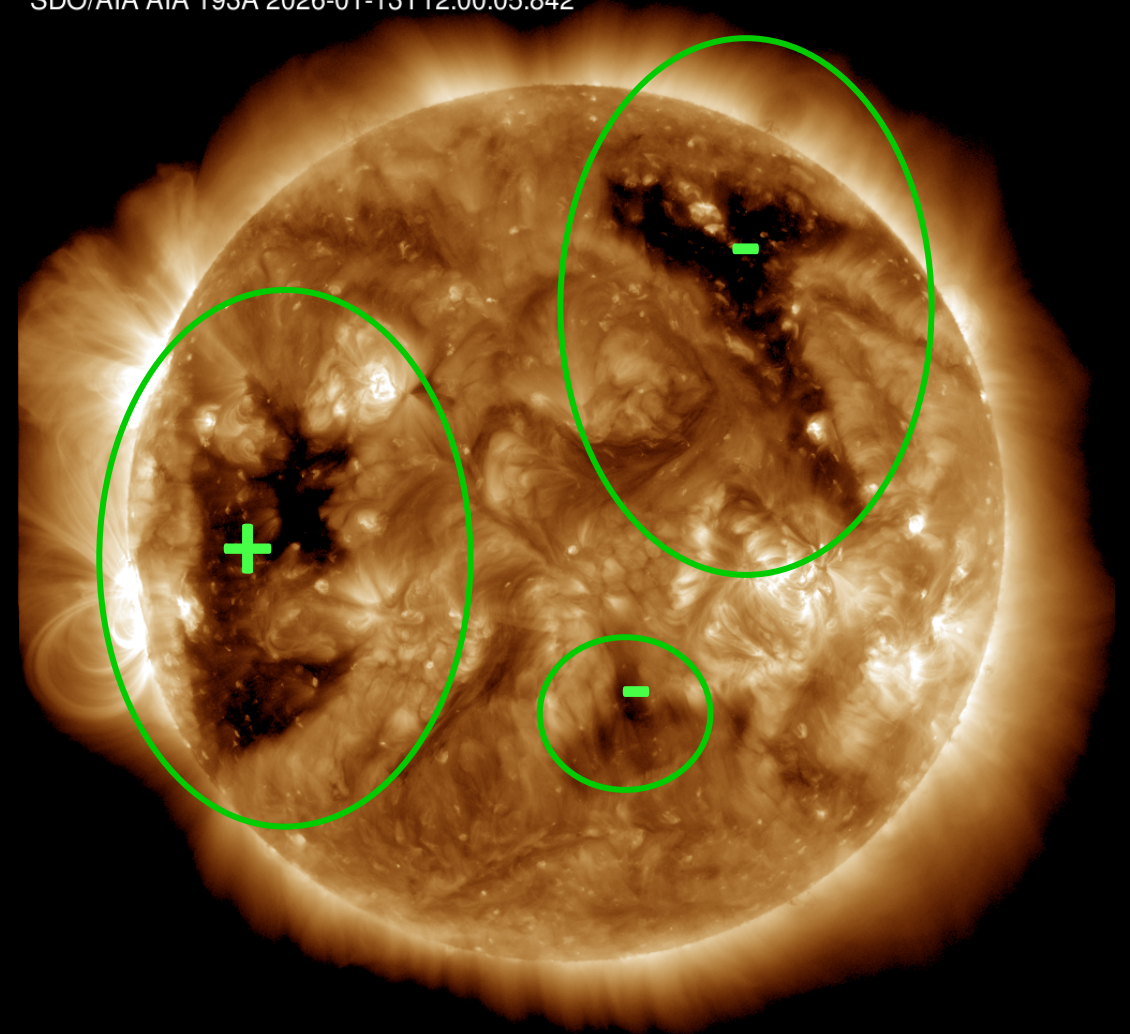
SDO/AIA 19.3 nm 2026-01-12

SDO/AIA AIA 193Å 2026-01-12T12:00:05.843



SDO/AIA 19.3 nm 2026-01-13

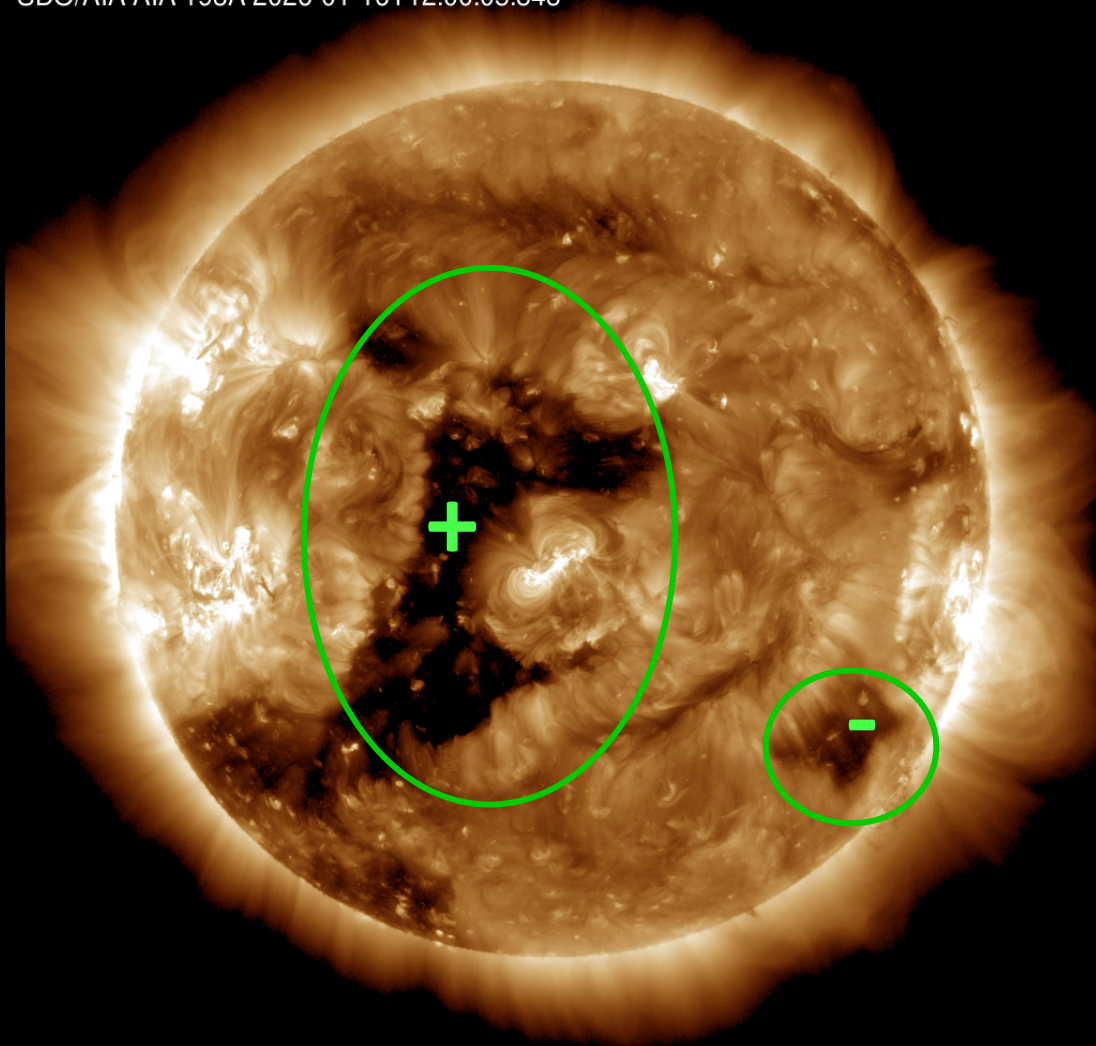
SDO/AIA AIA 193Å 2026-01-13T12:00:05.842



Coronal holes

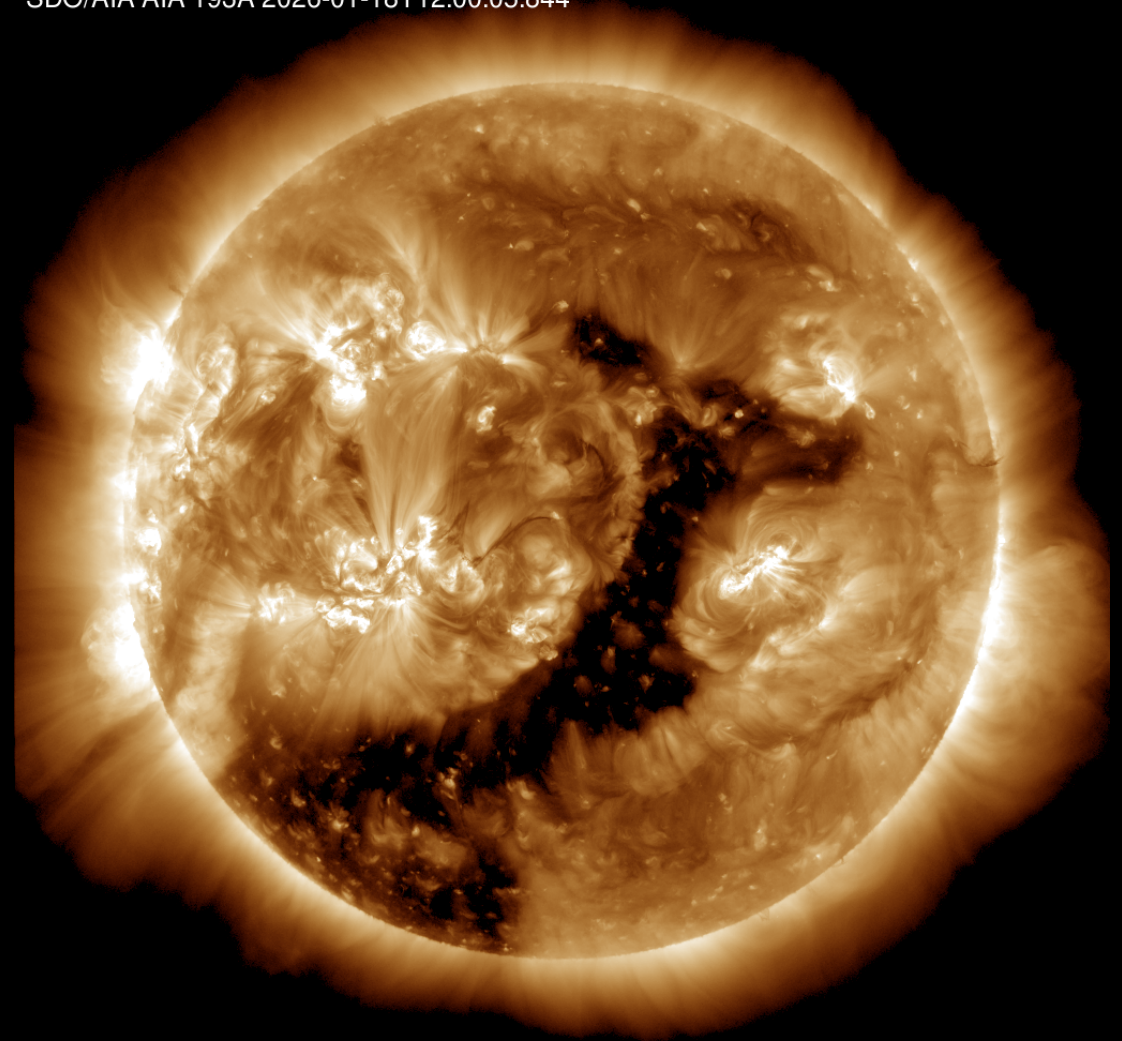
SDO/AIA 19.3 nm 2026-01-16

SDO/AIA AIA 193Å 2026-01-16T12:00:05.843

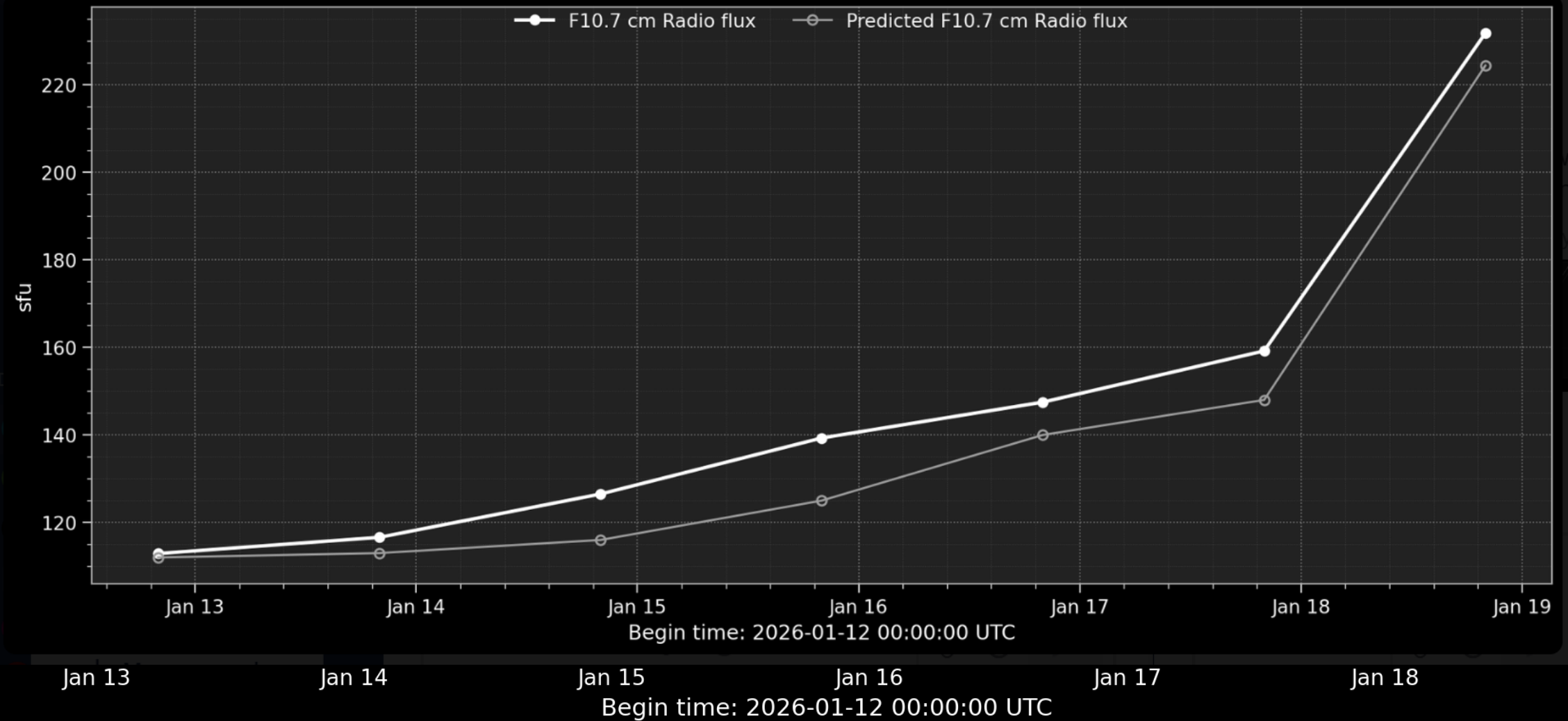


SDO/AIA 19.3 nm 2026-01-18

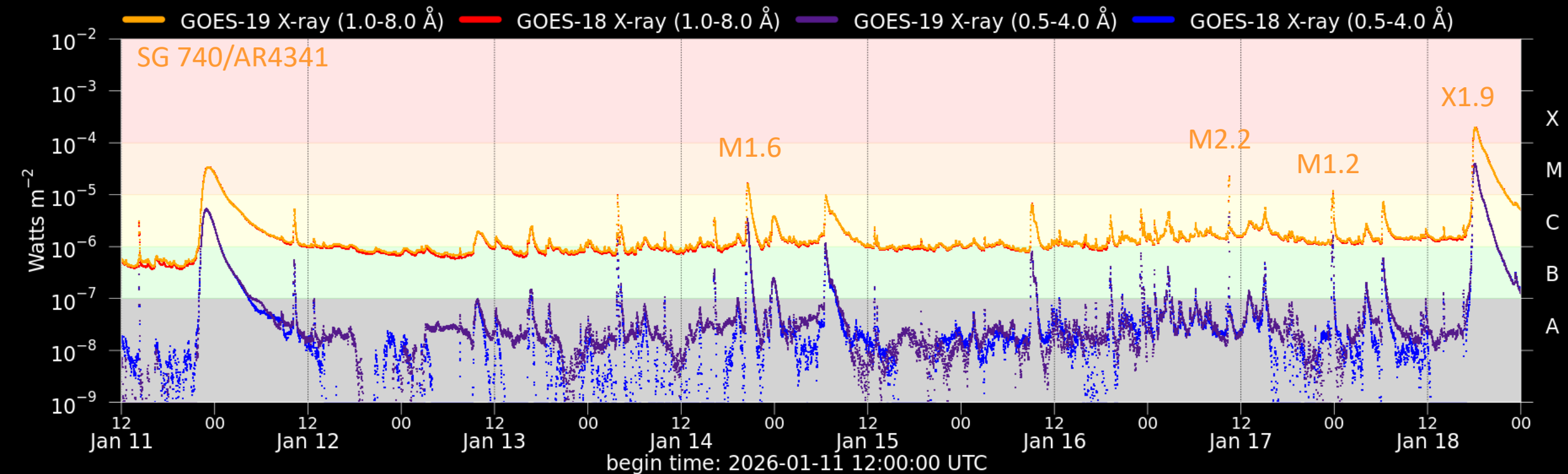
SDO/AIA AIA 193Å 2026-01-18T12:00:05.844



Solar F10.7cm radio flux



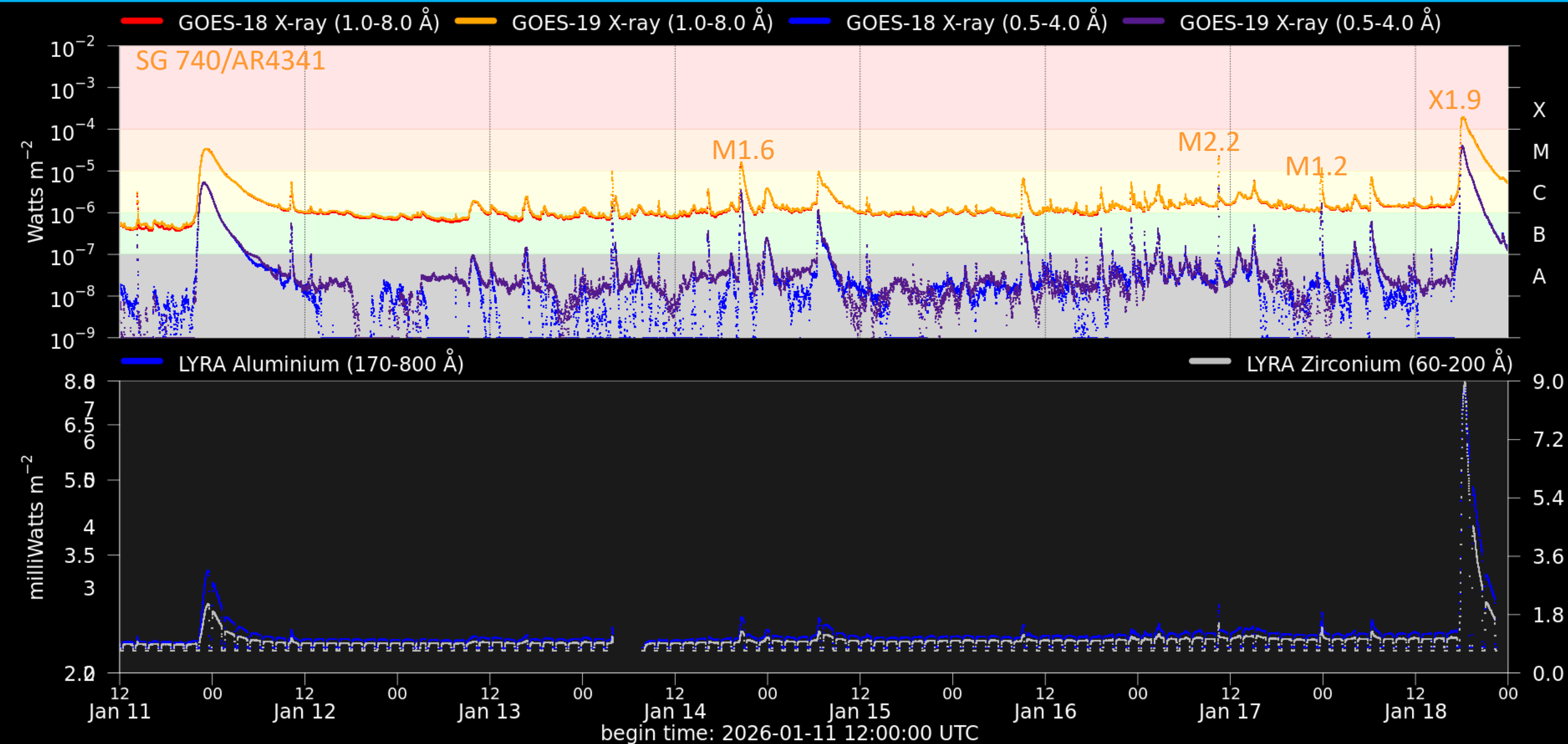
Flaring activity



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

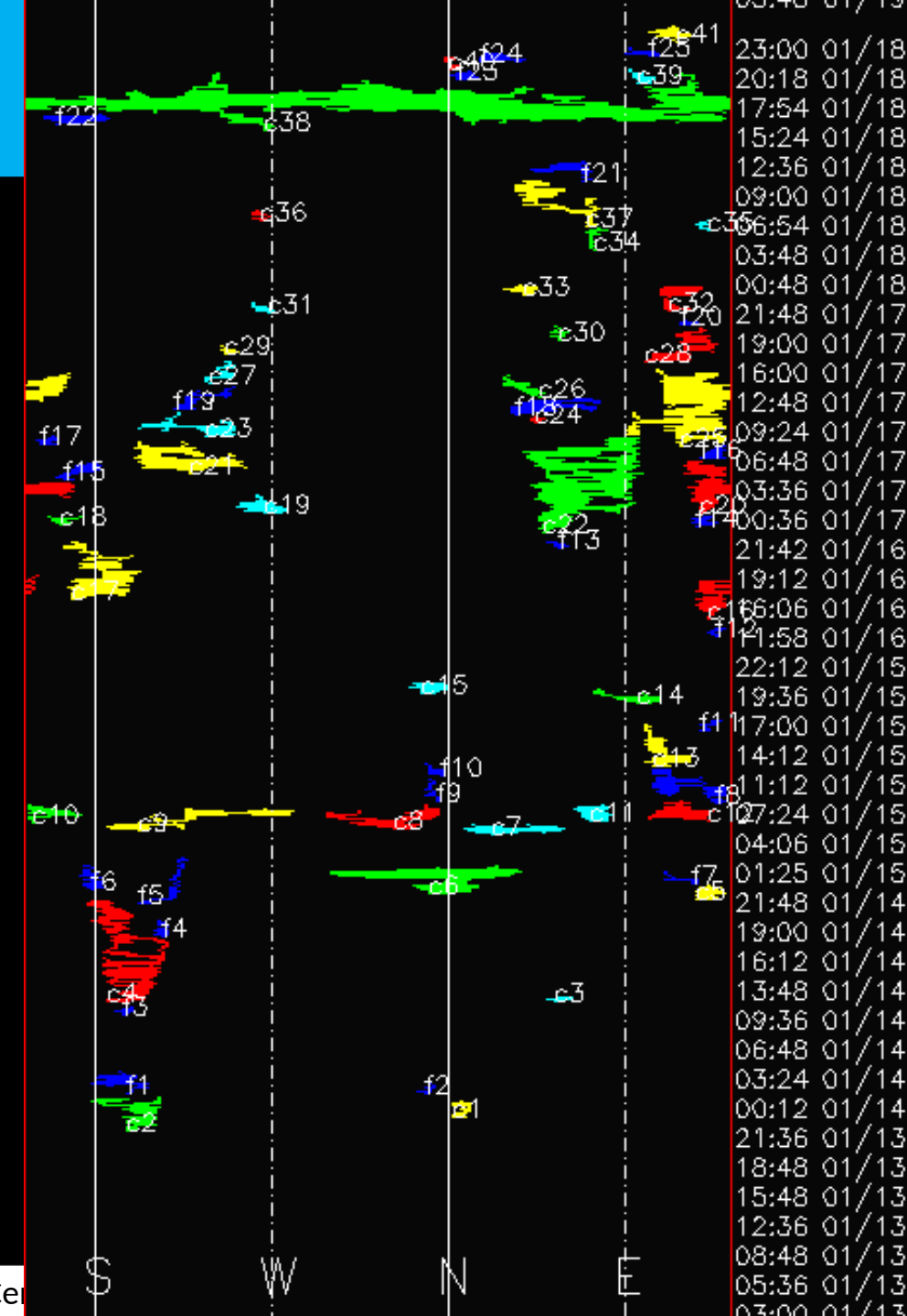
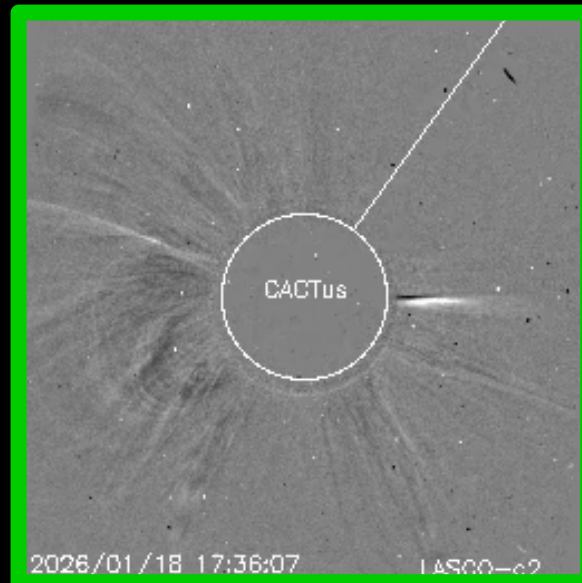
Issue date	2026-01-11	2026-01-12	2026-01-13	2026-01-14	2026-01-15	2026-01-16	2026-01-17	2026-01-18
Probability (%)	00 00 00	90 35 01	90 30 01	87 33 01	94 51 02	99 81 10	99 89 22	99 84 22
Observed (#)	02 00 00	00 00 00	04 00 00	03 01 00	04 00 00	07 01 00	03 01 00	02 00 01

Solar X-Ray and UV flux



Coronal Mass Ejections

Halo CME observed on JAN 18 at 18:12 UTC, associated with X1.9 flare (SSG 740/AR 4341).



Solar Wind and

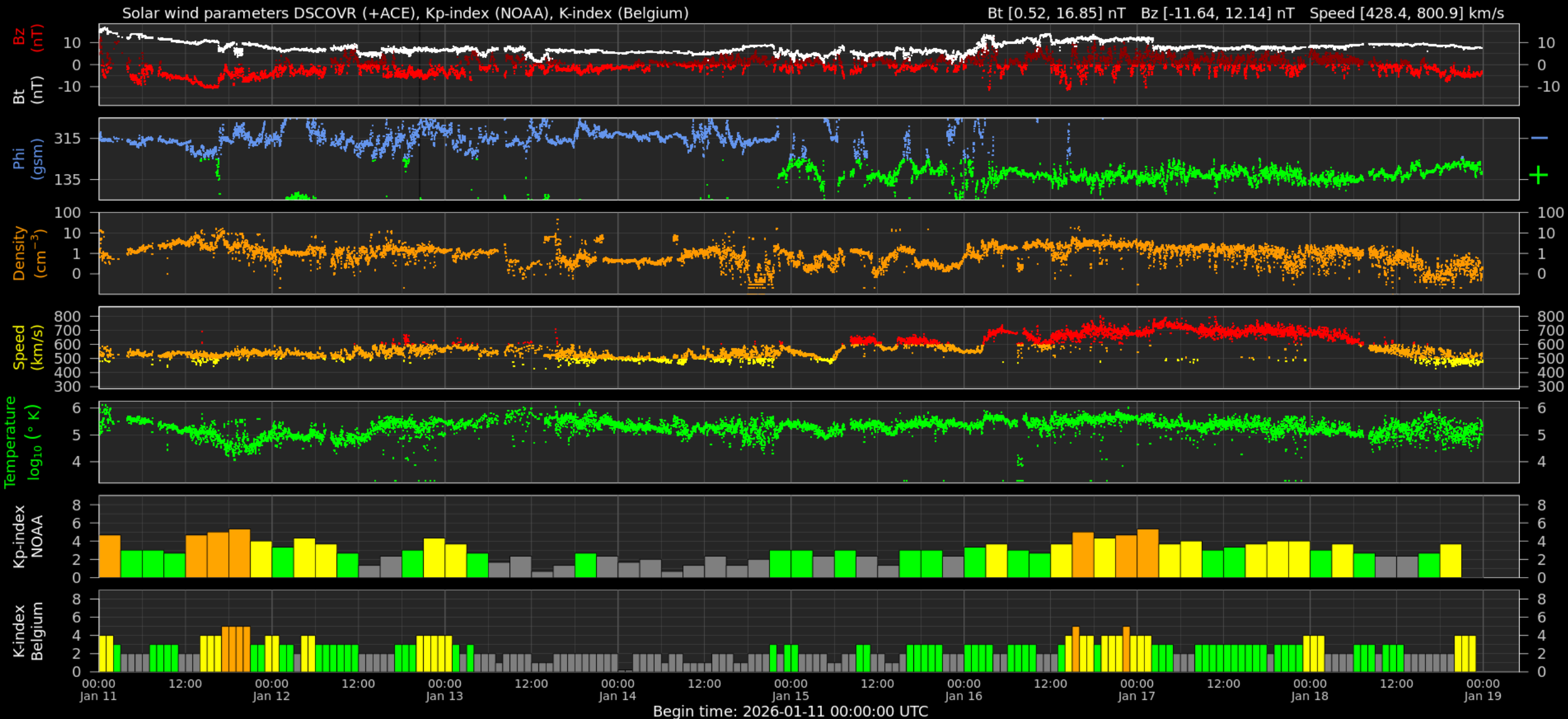
Geomagnetic Activity



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Solar wind parameters & K-indices



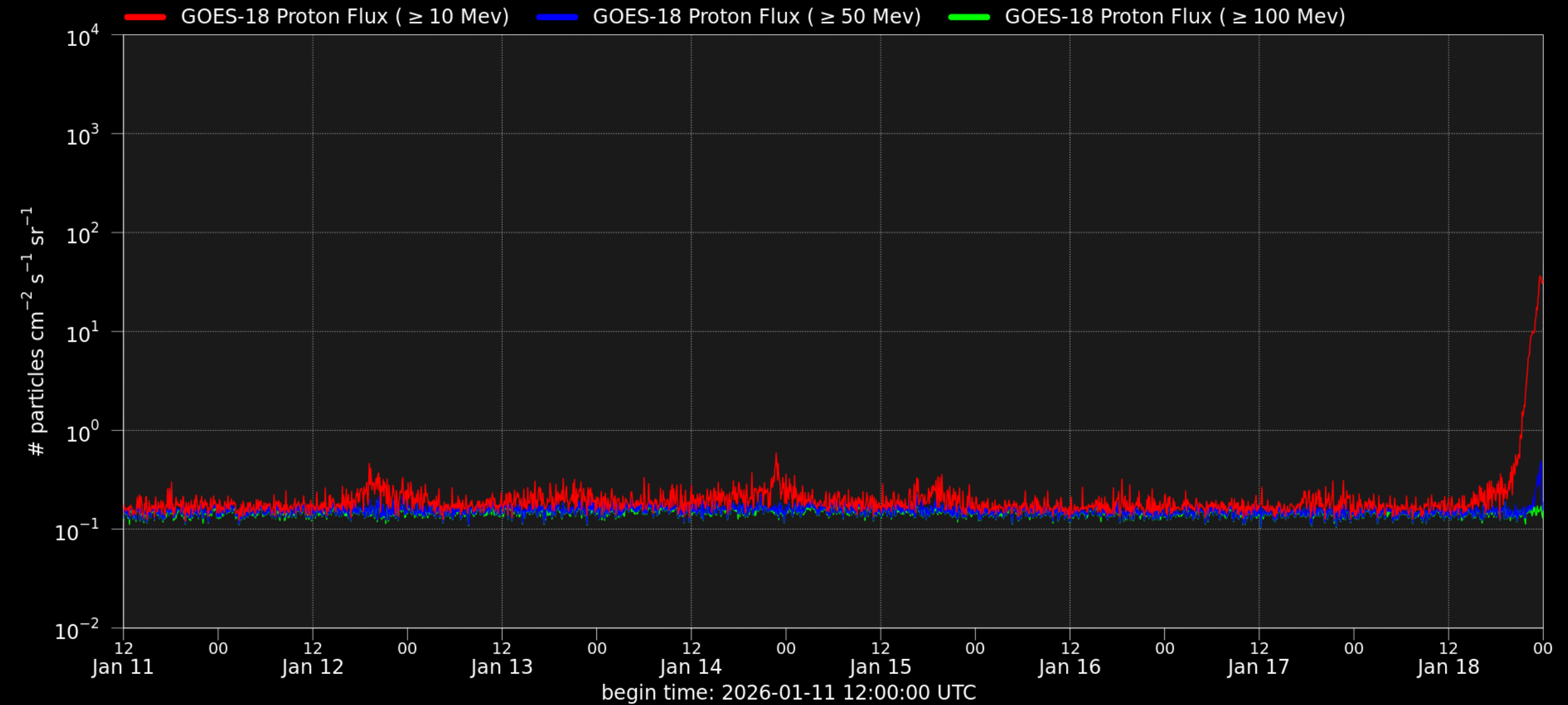
Energetic Particles



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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



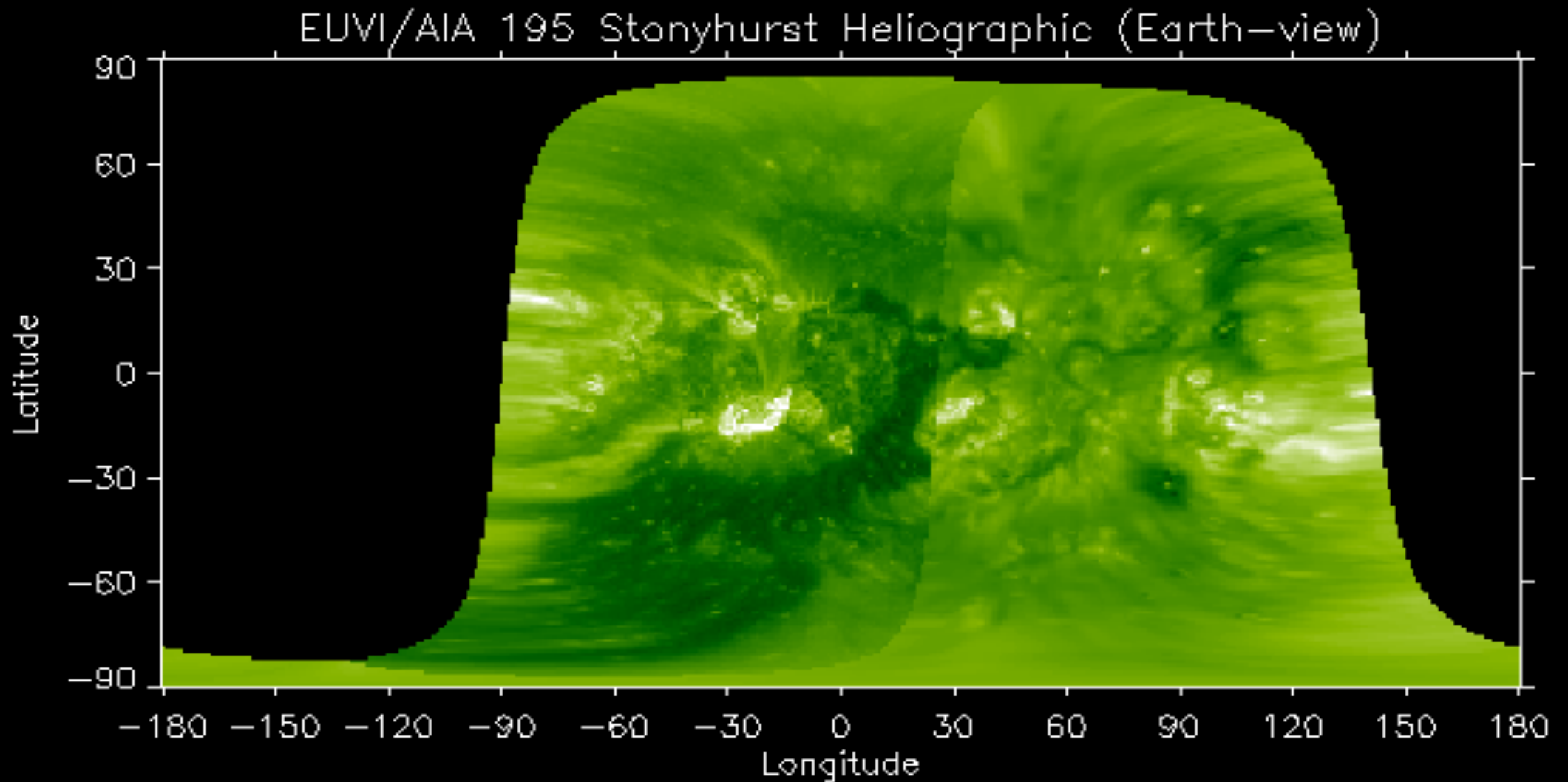
Outlook



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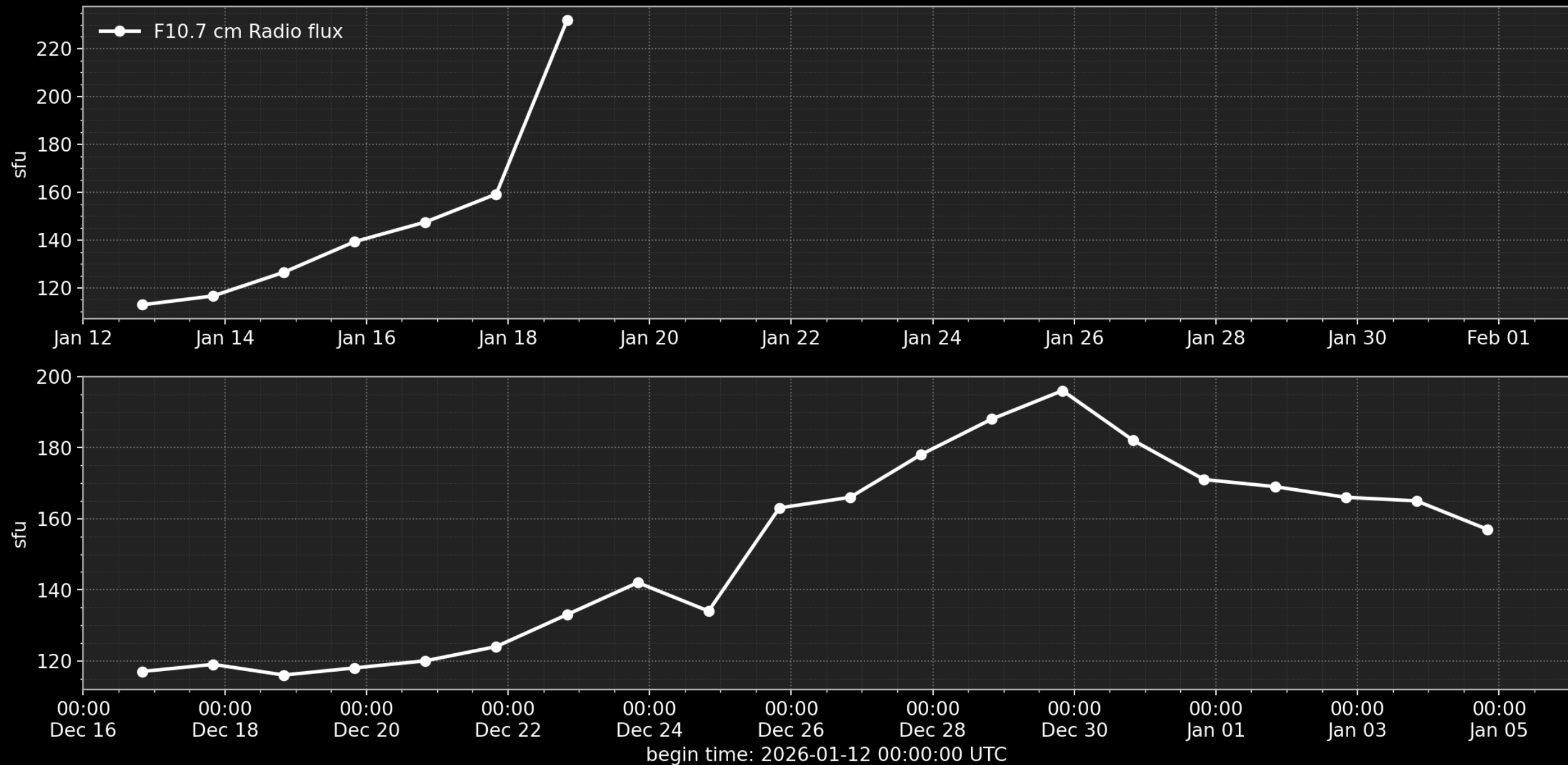
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Outlook: Solar activity

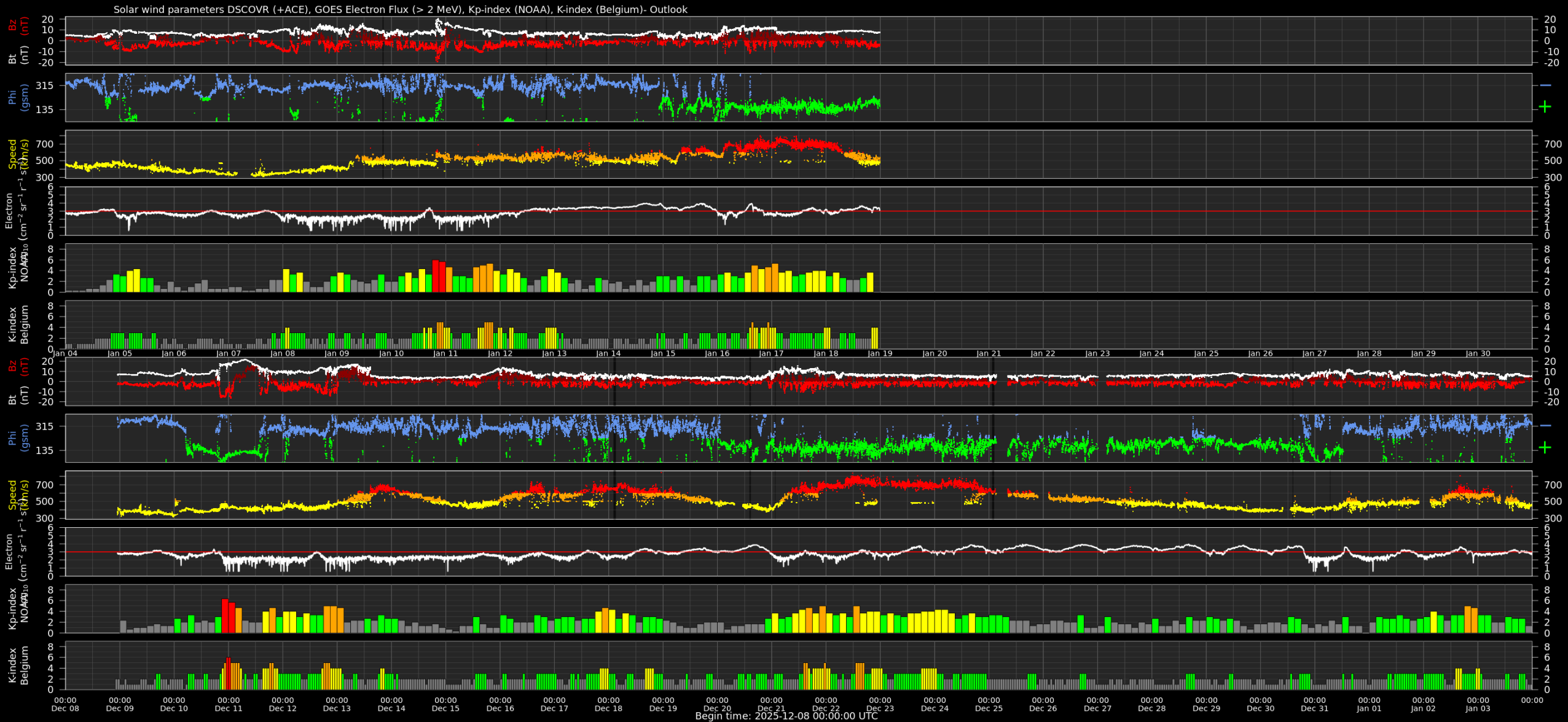


Observation date: 2026/01/18 19:35:00

Outlook: Solar F10.7cm radio flux



Outlook: Electron Flux at GEO Outlook



PECASUS



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Pecarus related events

GNSS Scintillation advisories

HF COM Post Storm Depression

HF COM ShortWave Fadeout

HF COM Polar Cap Absorption ongoing

SIDC Space Weather Briefing

See you at our next briefing!

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