SIDC Space Weather Briefing

12 January 2026-18 January 2026

Elisabeth Dom

& 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 KBel: 5.0, max Kp(NOAA): 5.33, Minor Storm conditions (JAN 16 PM – JAN 17 AM)

All Quiet Alert: Not all quiet

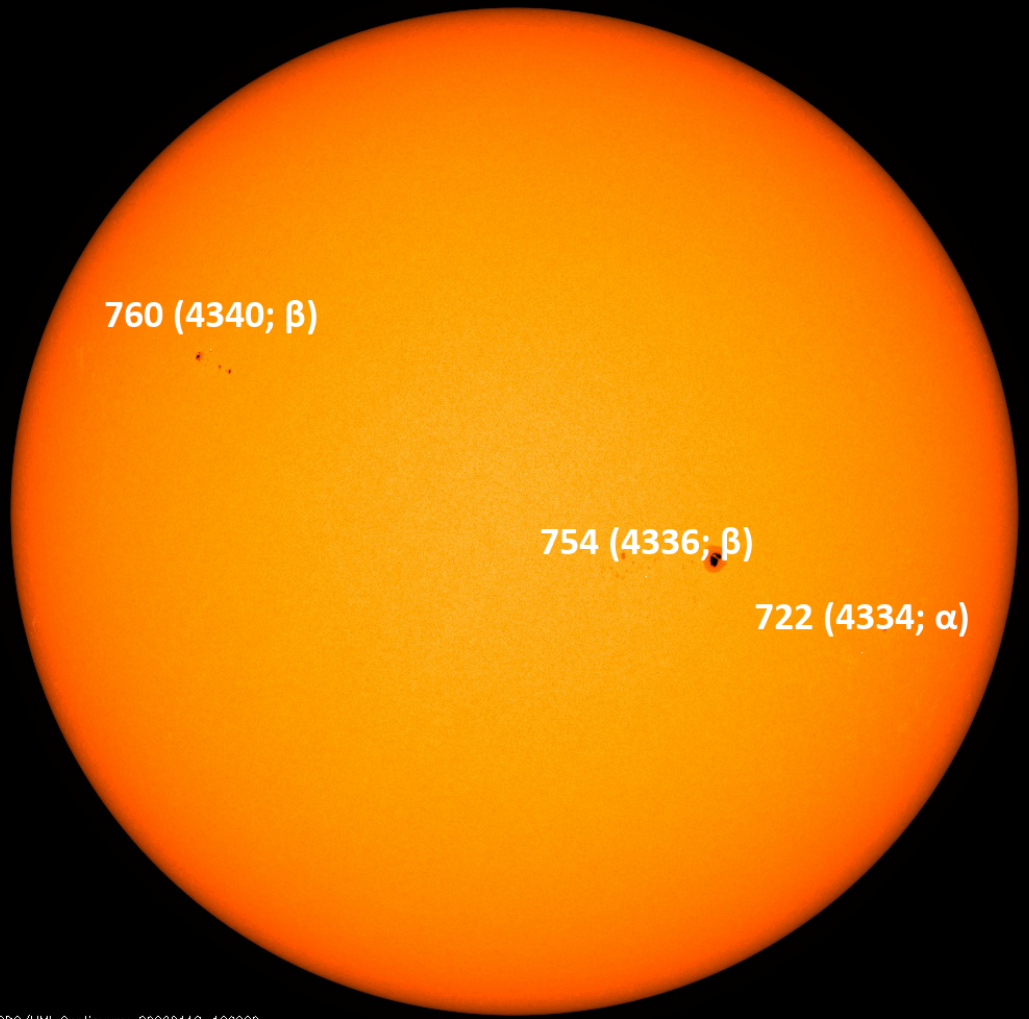
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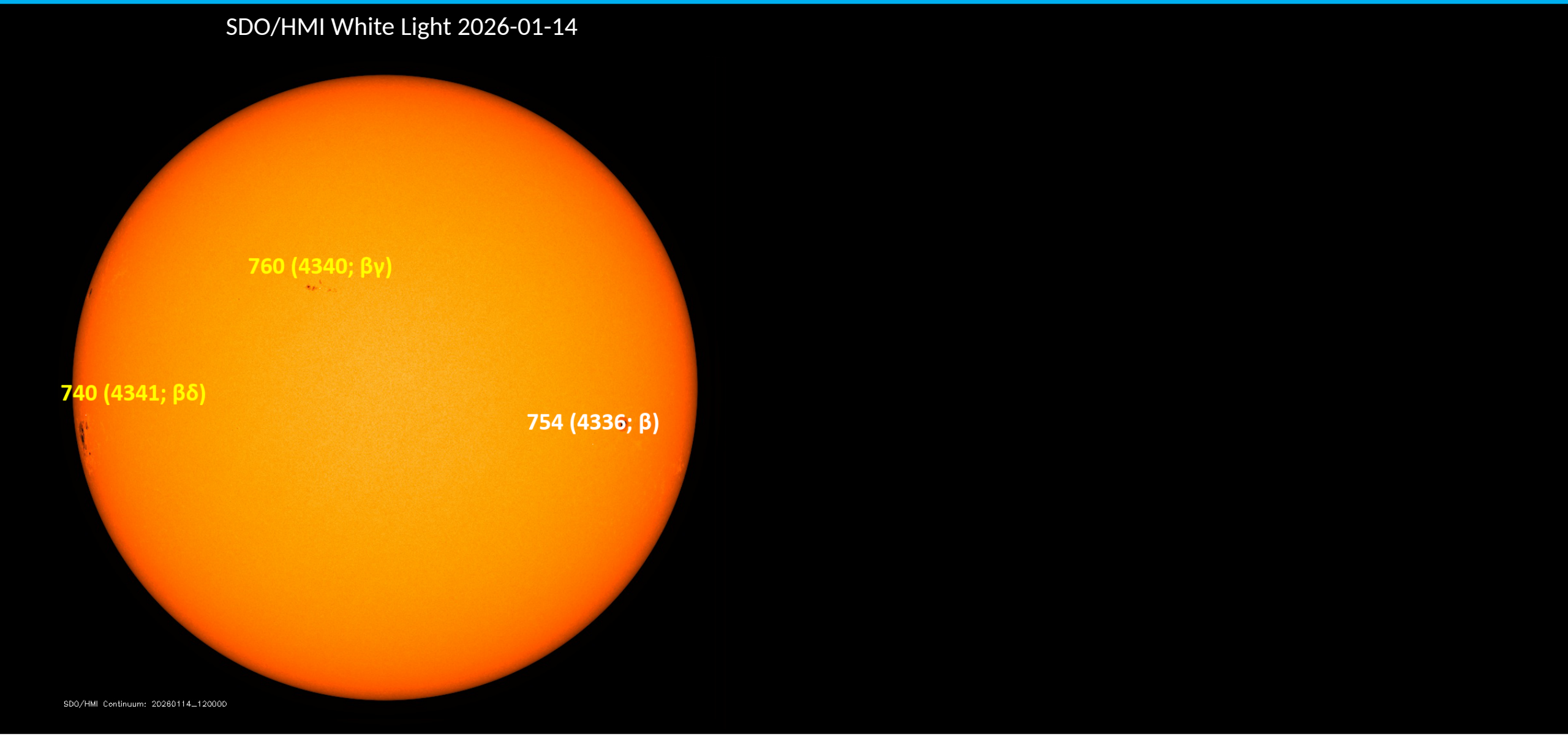
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Solar active regions

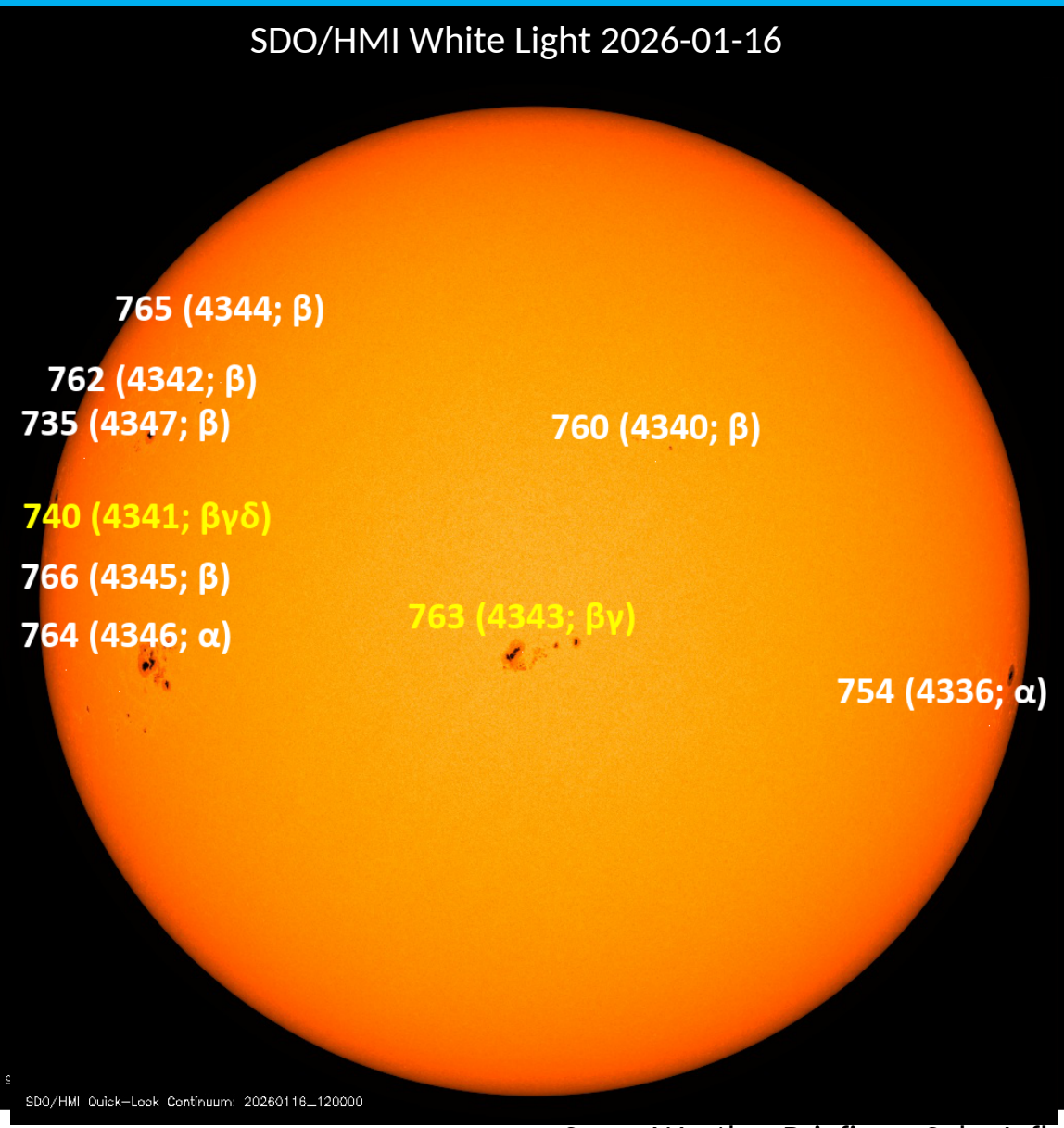
SDO/HMI White Light 2026-01-12



Solar active regions

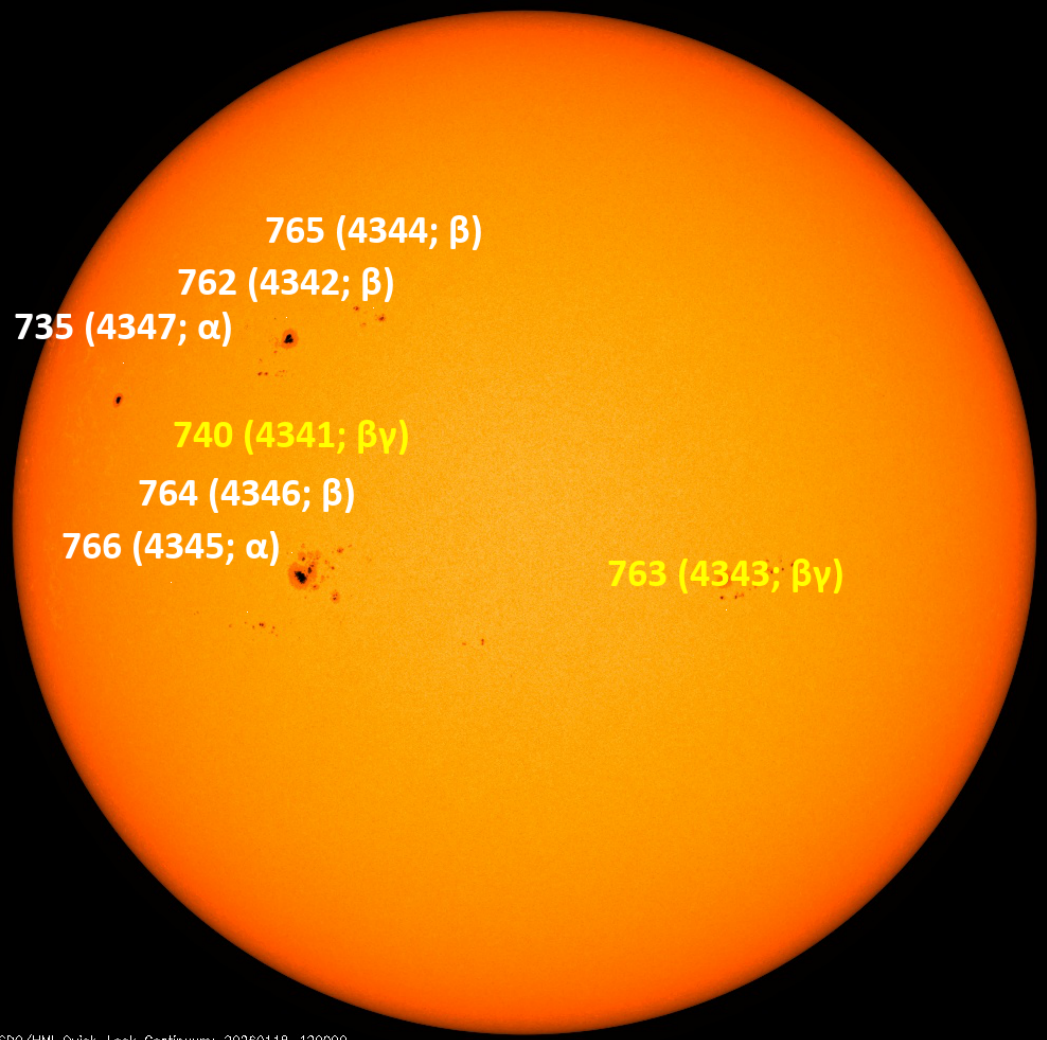


Solar active regions



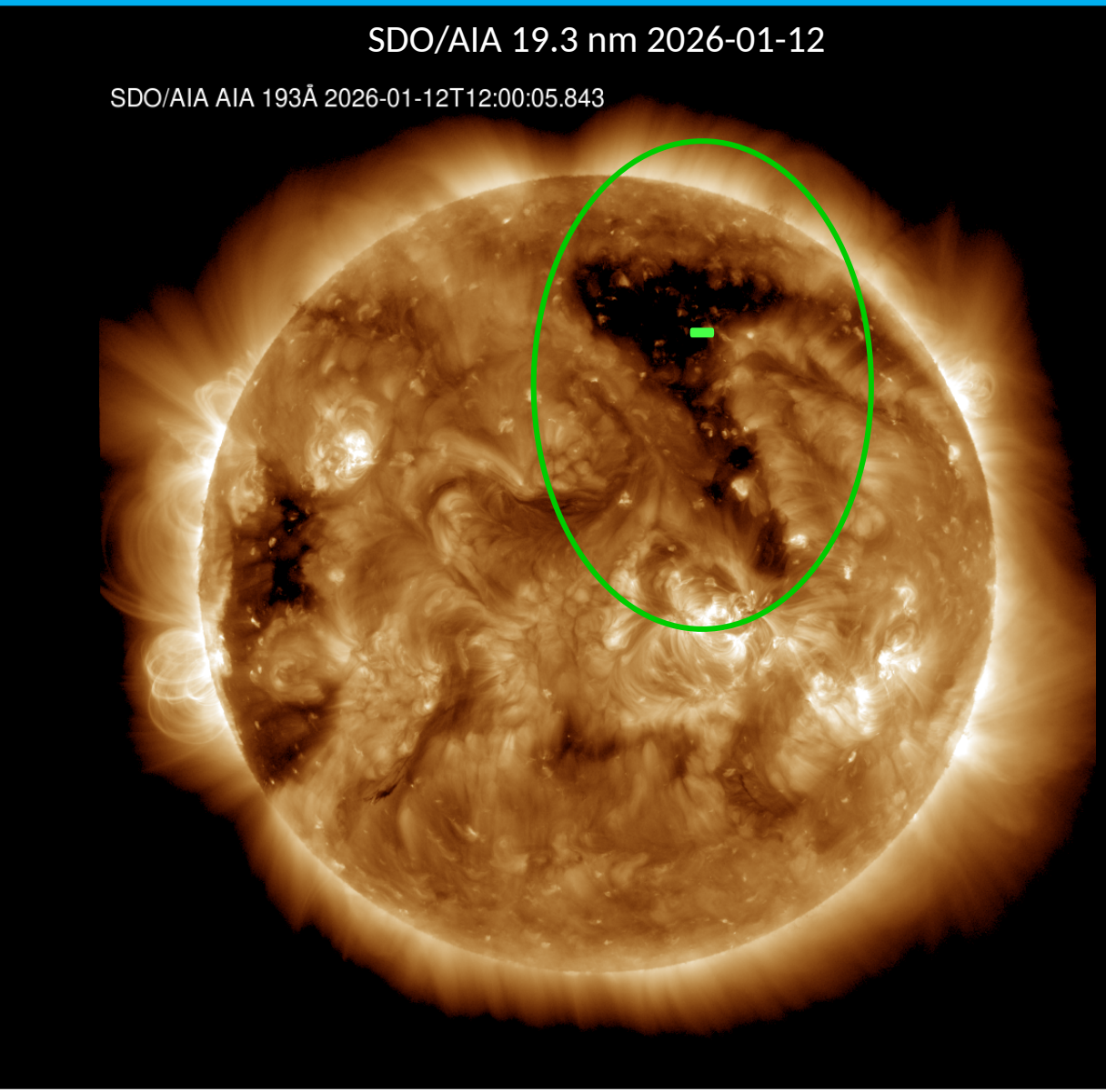
Solar active regions

SDO/HMI White Light 2026-01-18

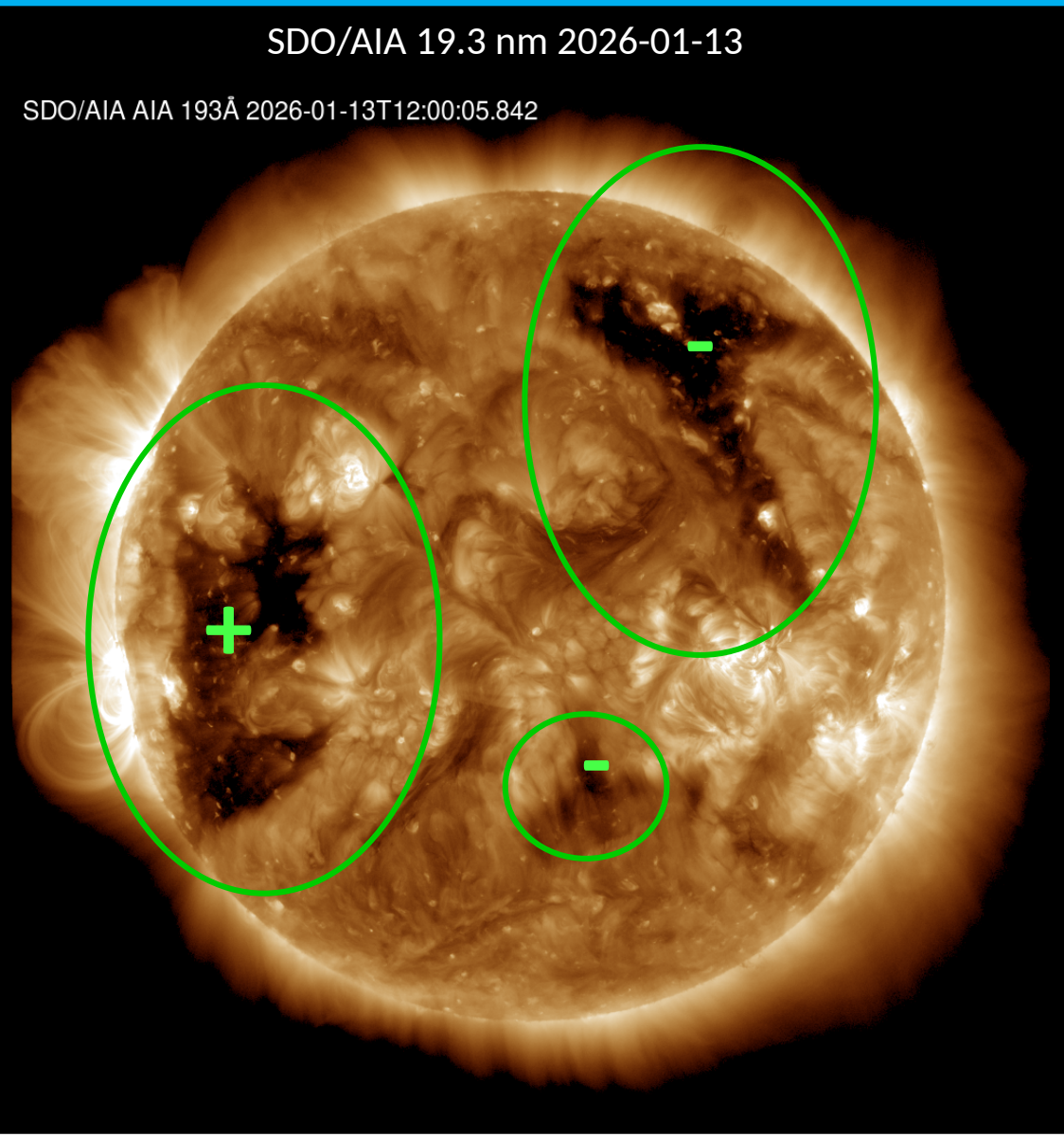


Coronal holes

SDO/AIA 19.3 nm 2026-01-12

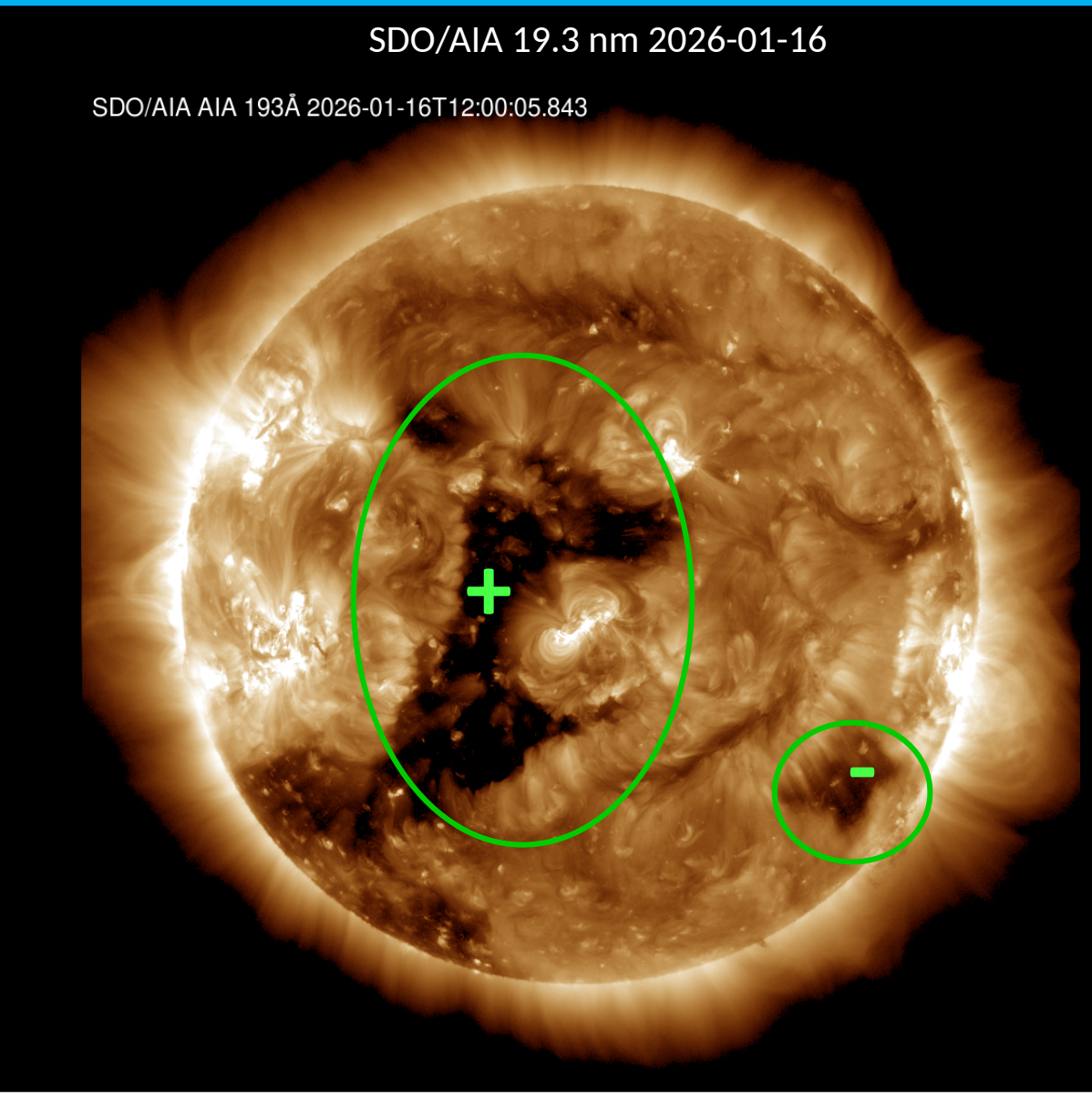


SDO/AIA 19.3 nm 2026-01-13

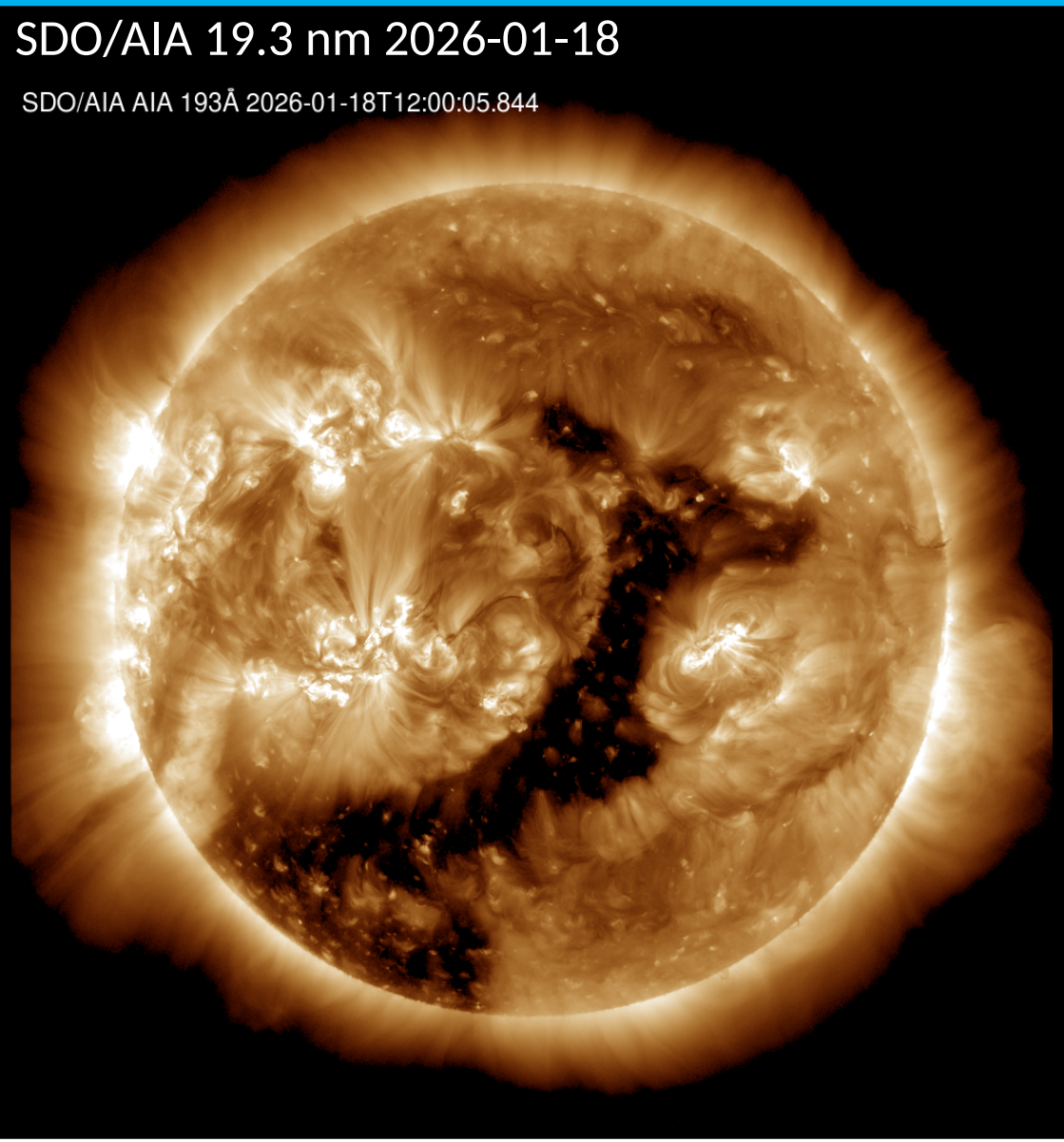


Coronal holes

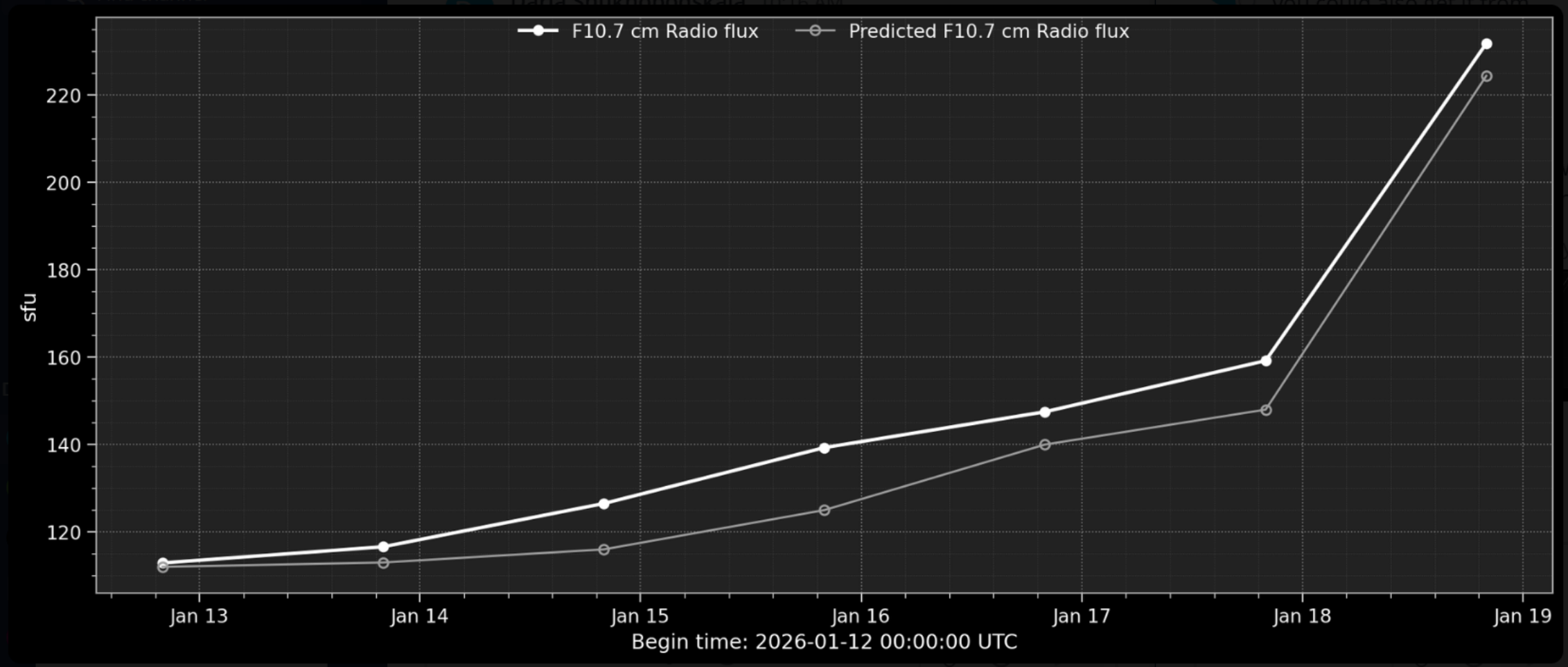
SDO/AIA 19.3 nm 2026-01-16



SDO/AIA 19.3 nm 2026-01-18

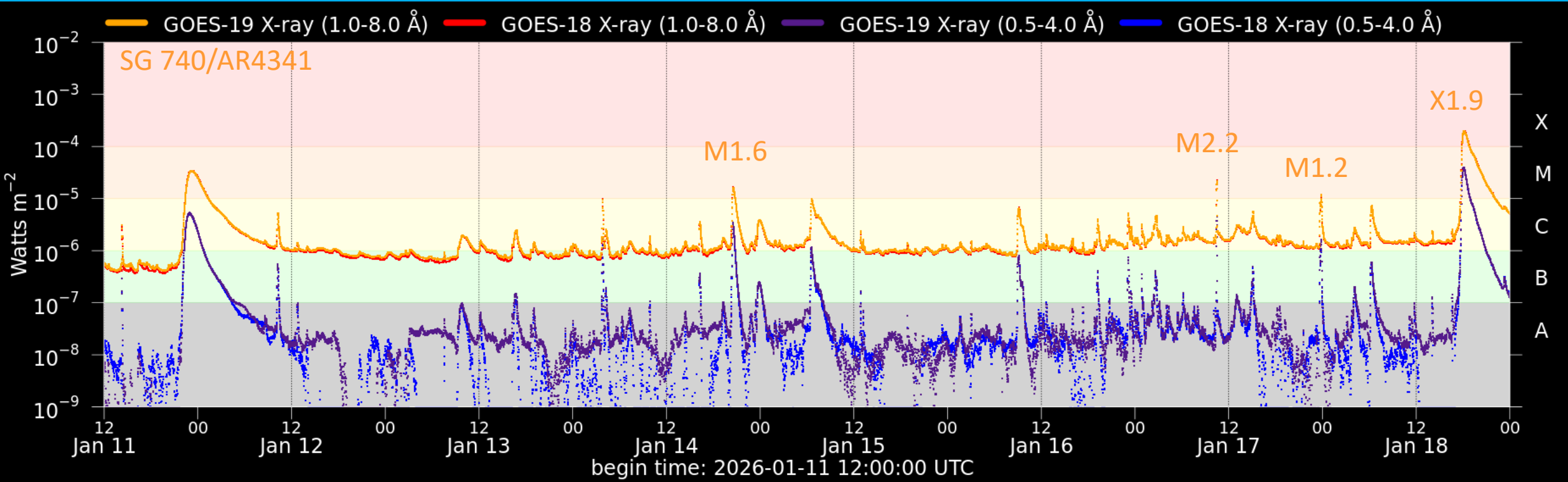


Solar F10.7cm radio flux



Jan 13 Jan 14 Jan 15 Jan 16 Jan 17 Jan 18 J
Begin time: 2026-01-12 00:00:00 UTC

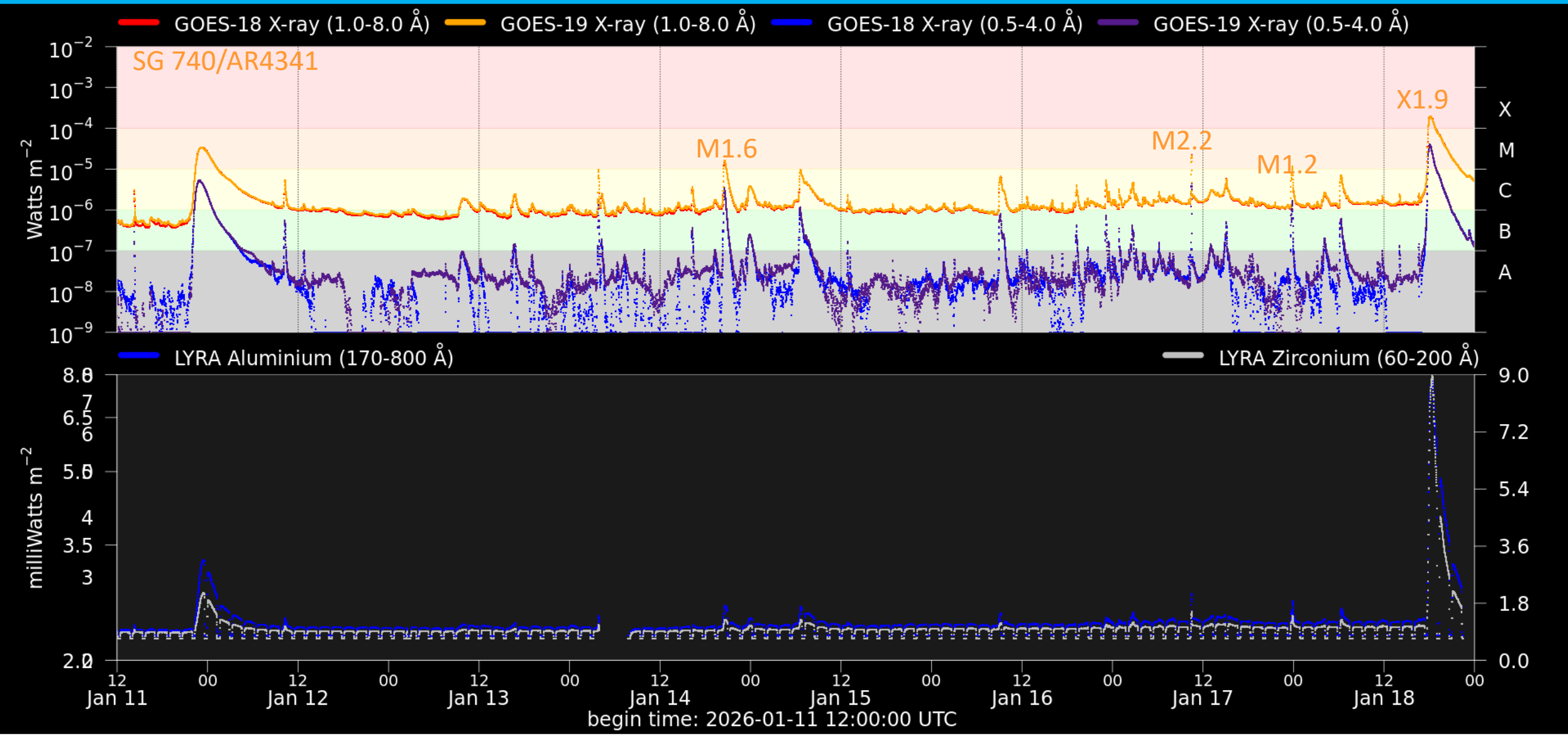
Flaring activity



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

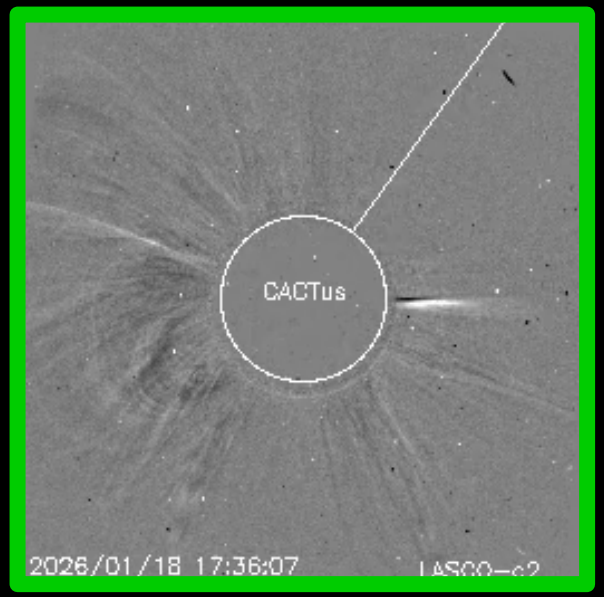
Issue date	2026-01-11	2026-01-12	2026-01-13	2026-01-14	2026-01-15	2026-01-16	2026-01-17	2026-01-18
Probability (%)	00|00|00	90|35|01	90|30|01	87|33|01	94|51|02	99|81|10	99|89|22	99|84|22
Observed (#)	02|00|00	00|00|00	04|00|00	03|01|00	04|00|00	07|01|00	03|01|00	02|00|01

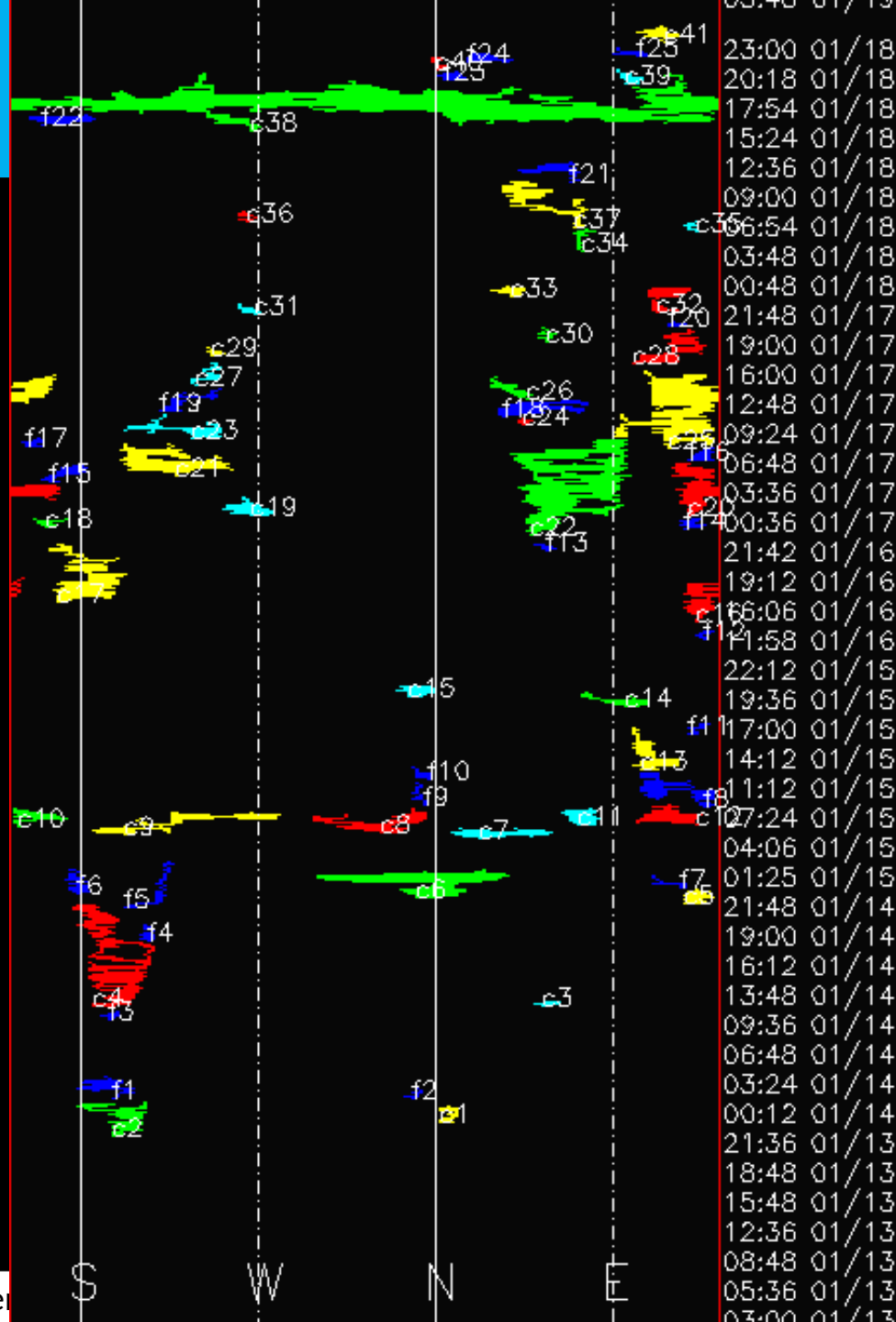
Solar X-Ray and UV flux



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

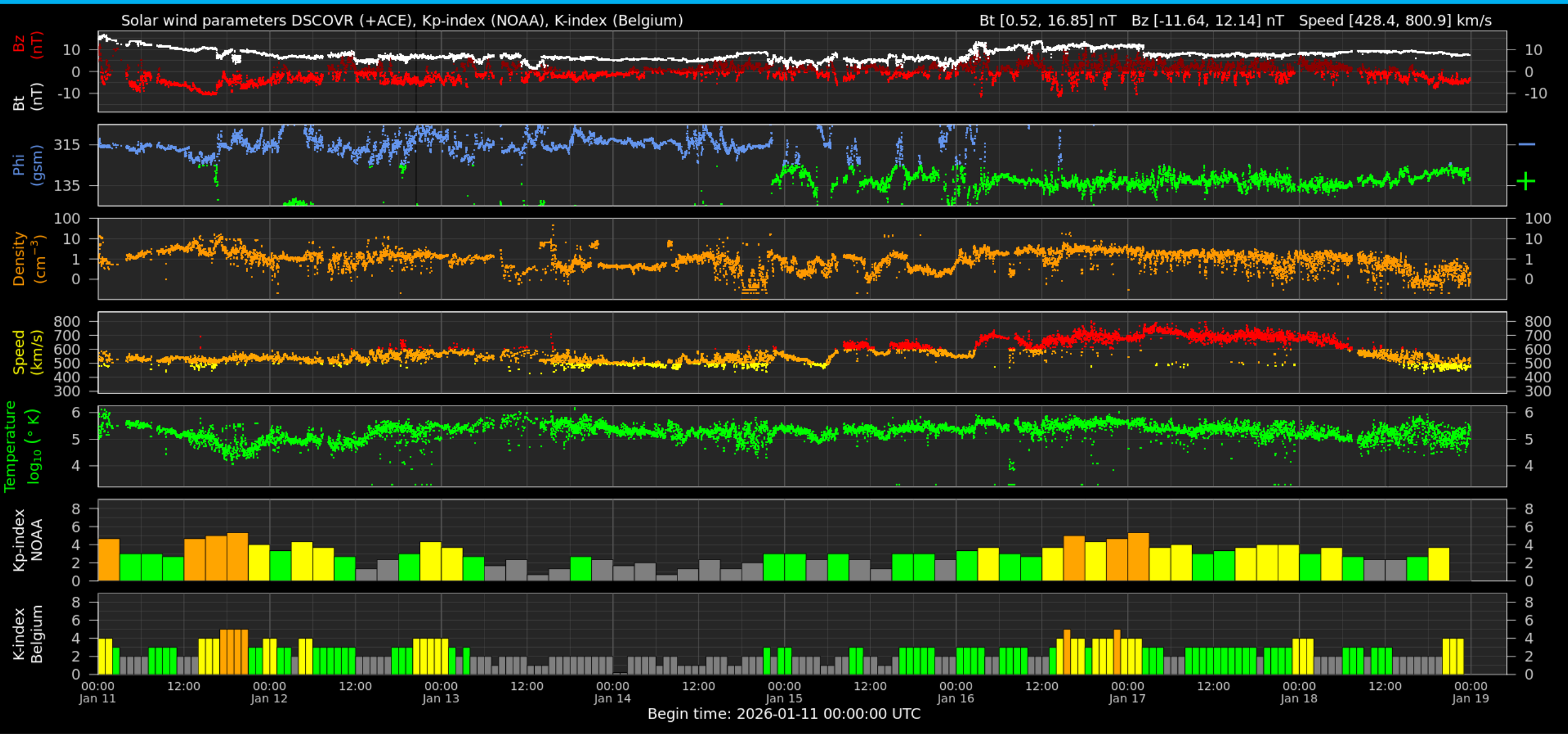
Geomagnetic Activity



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Solar wind parameters & K-indices



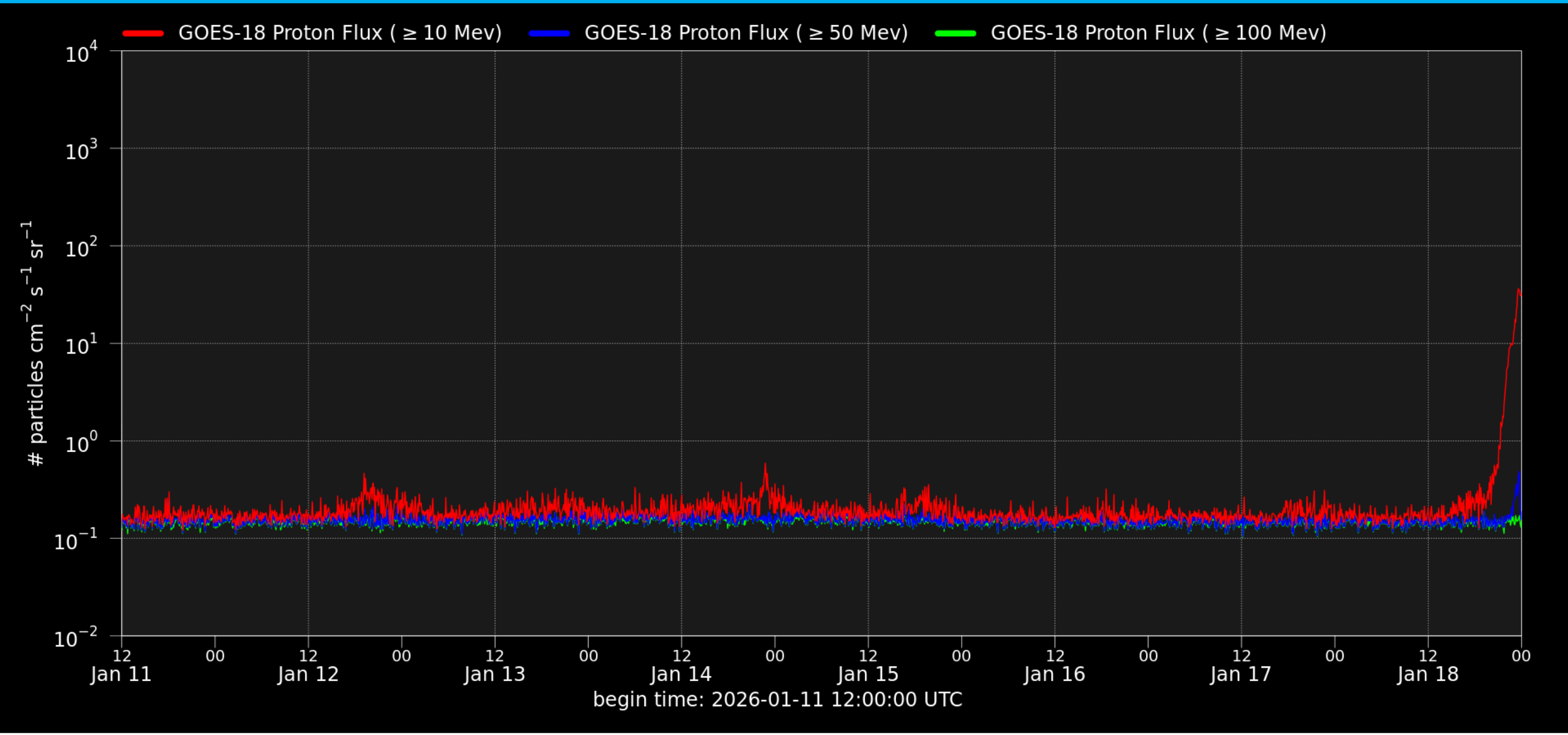
Energetic Particles



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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

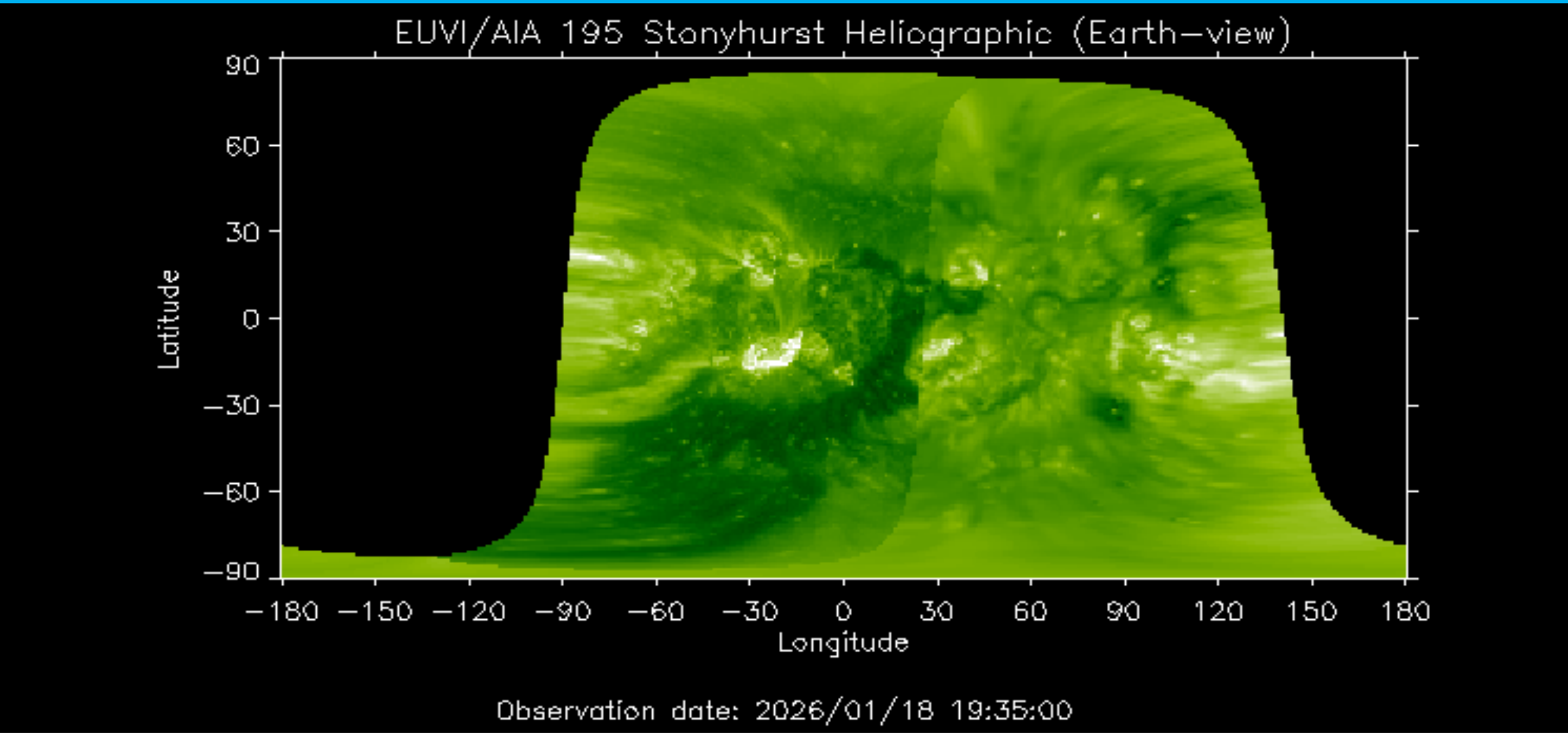


Outlook

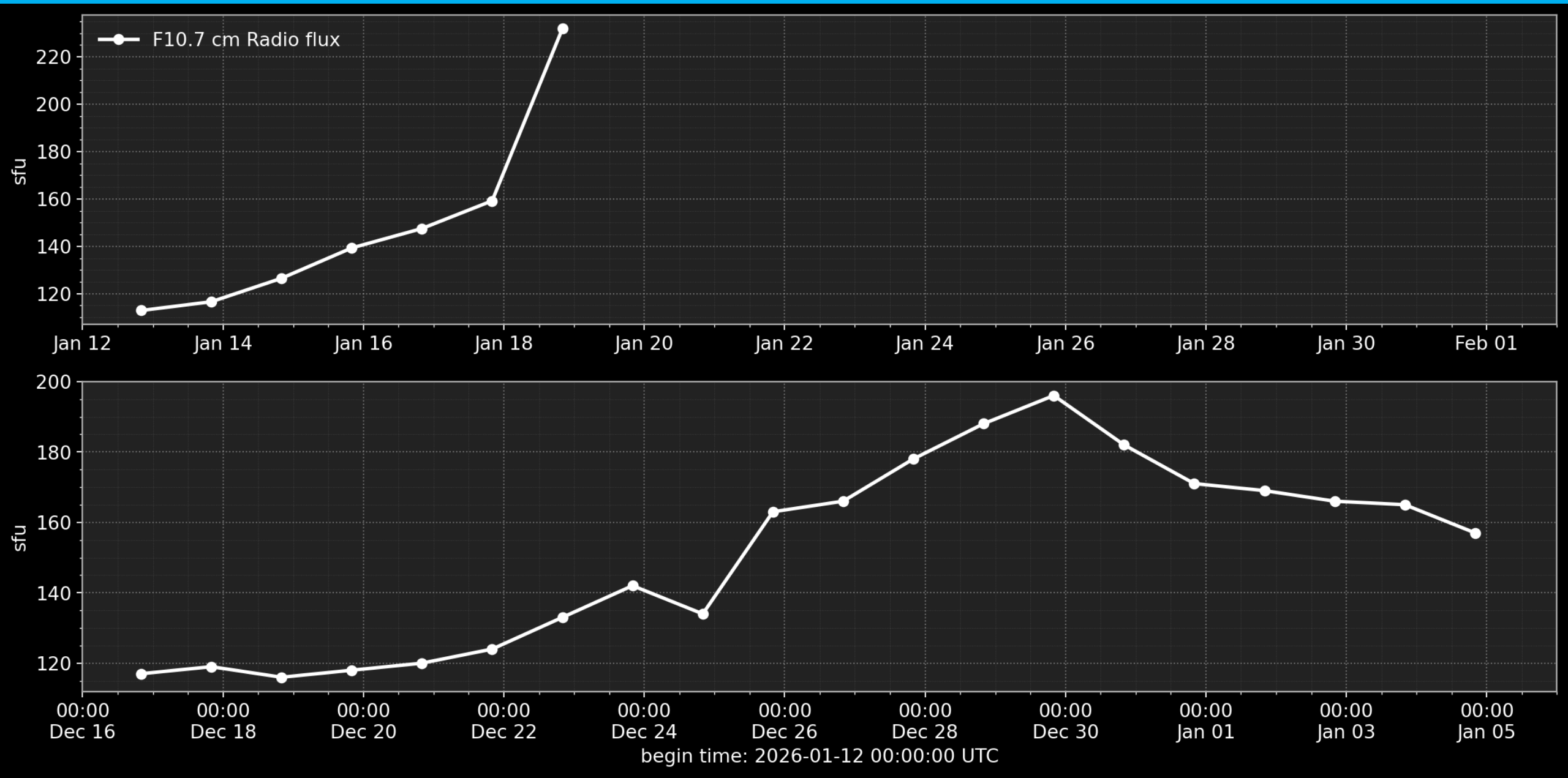
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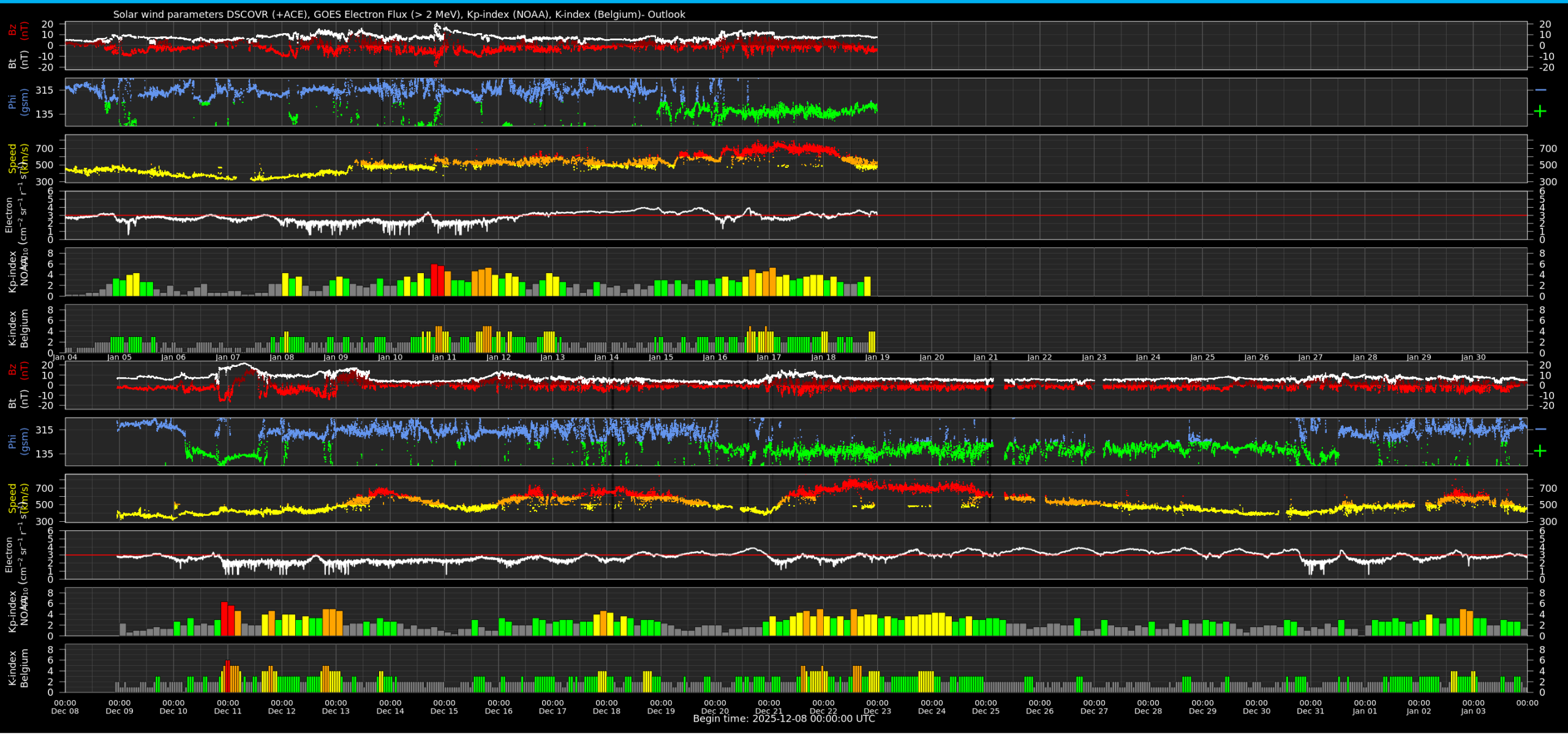
Outlook: Solar activity



Outlook: Solar F10.7cm radio flux



Outlook: Electron Flux at GEO Outlook



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Pecasus related events

GNSS Scintilation advisories

HF COM Post Storm Depression

HF COM ShortWave Fadeout

HF COM Polar Cap Absorption ongoing

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