

# SIDC Space Weather Briefing

12 January 2025-19 January 2025

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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 2025-01-12 12:00 to 2025-01-19 23:59

Active regions	15 AR on disk during week ( <b>NOAA 3964</b> most active)
Flares	# C-class flare: 54 # M-class flare: 11 # X-class flare: 0
Coronal Holes	1 CH – crossed central meridian during this week
CMEs	No Earth directed CMEs

Proton flux	Nominal levels below 10 pfu threshold
Electron flux	Nominal levels below 1000 pfu threshold

## Solar wind and geomagnetic conditions

ICMEs	No ICME arrivals
Solar wind conditions	B : 4 - 11 nT //Bz: -10.78 nT to 11.01 nT //Speed: 284.7 - 610km/s
Geomagnetic conditions	max KBel: 4.0, max Kp(NOAA): 4.0, Active conditions

All Quiet Alert: not all quiet

# Solar Activity

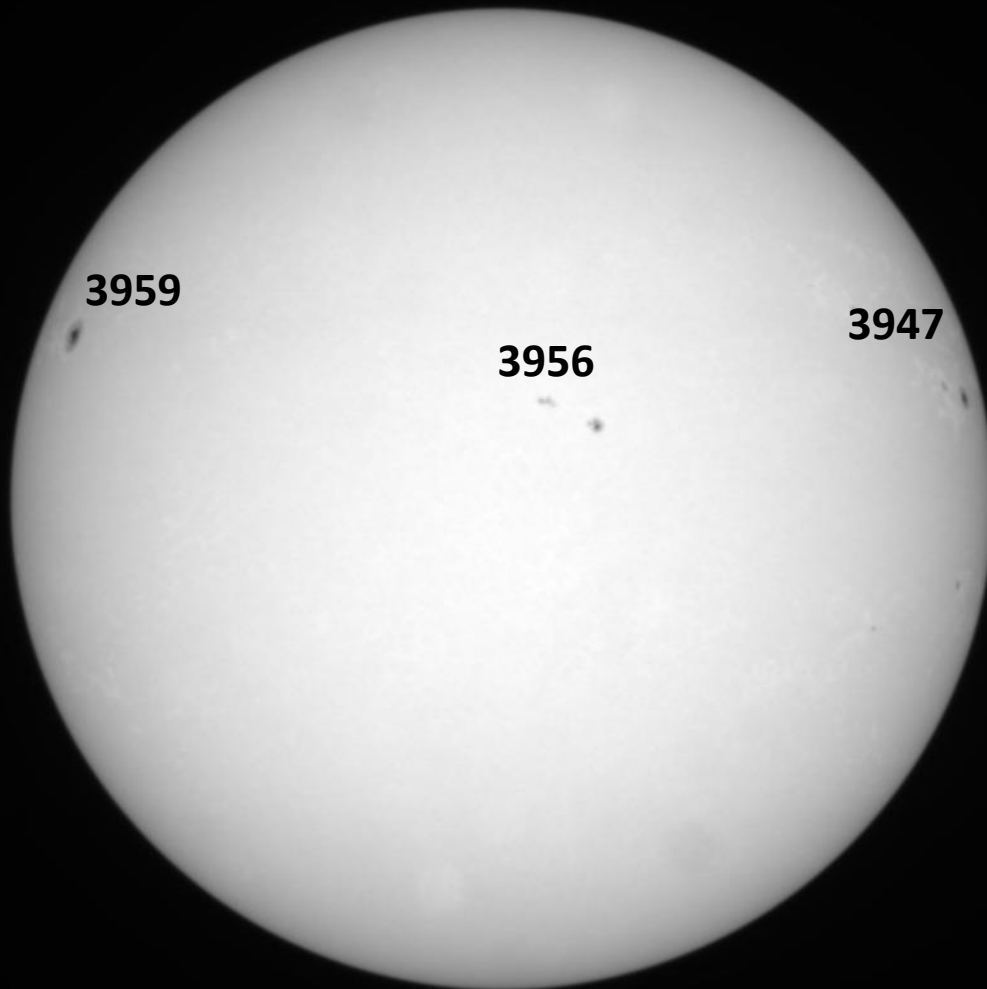


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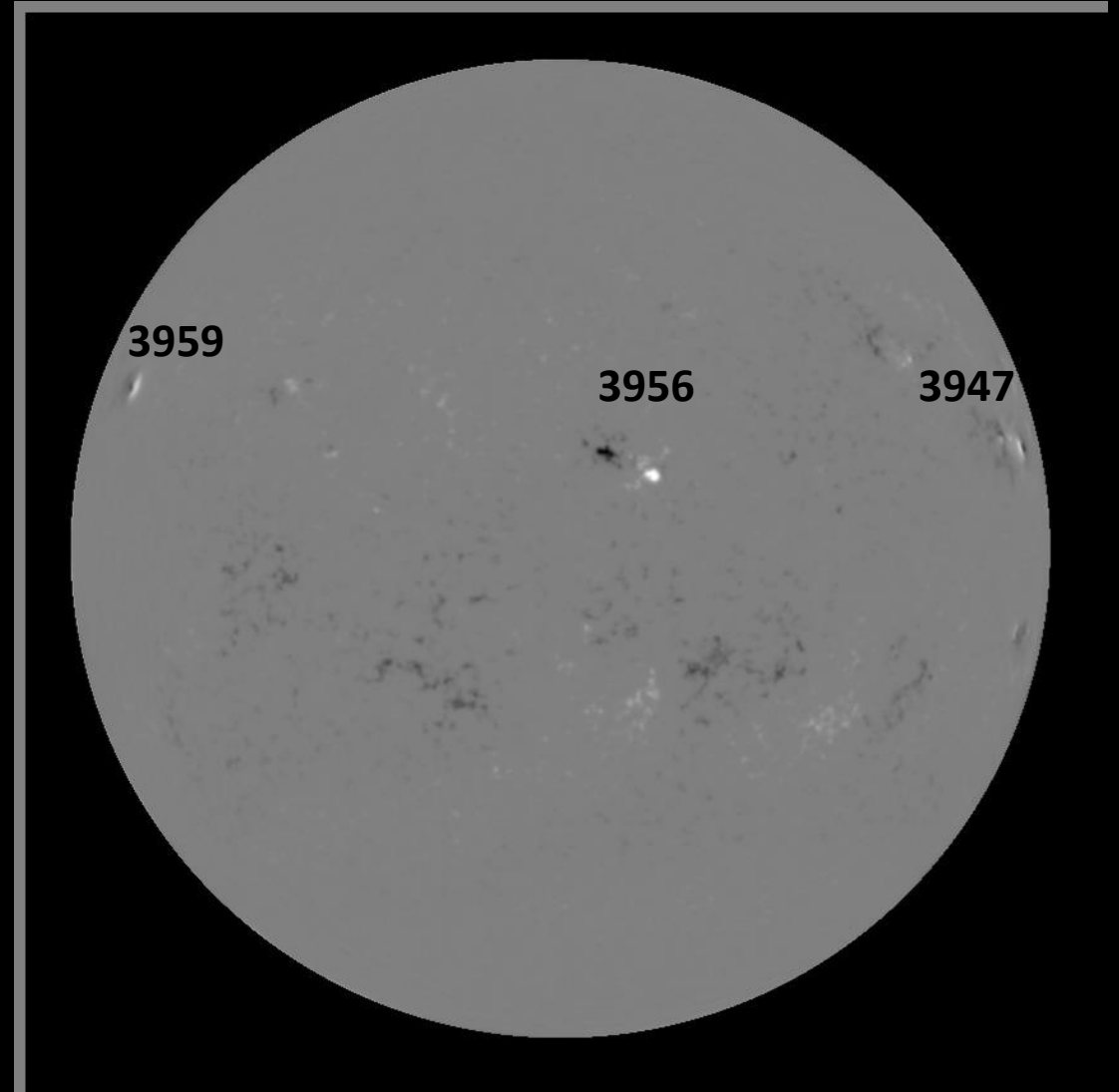
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# Solar active regions

GONG 677 nm 2025-01-13

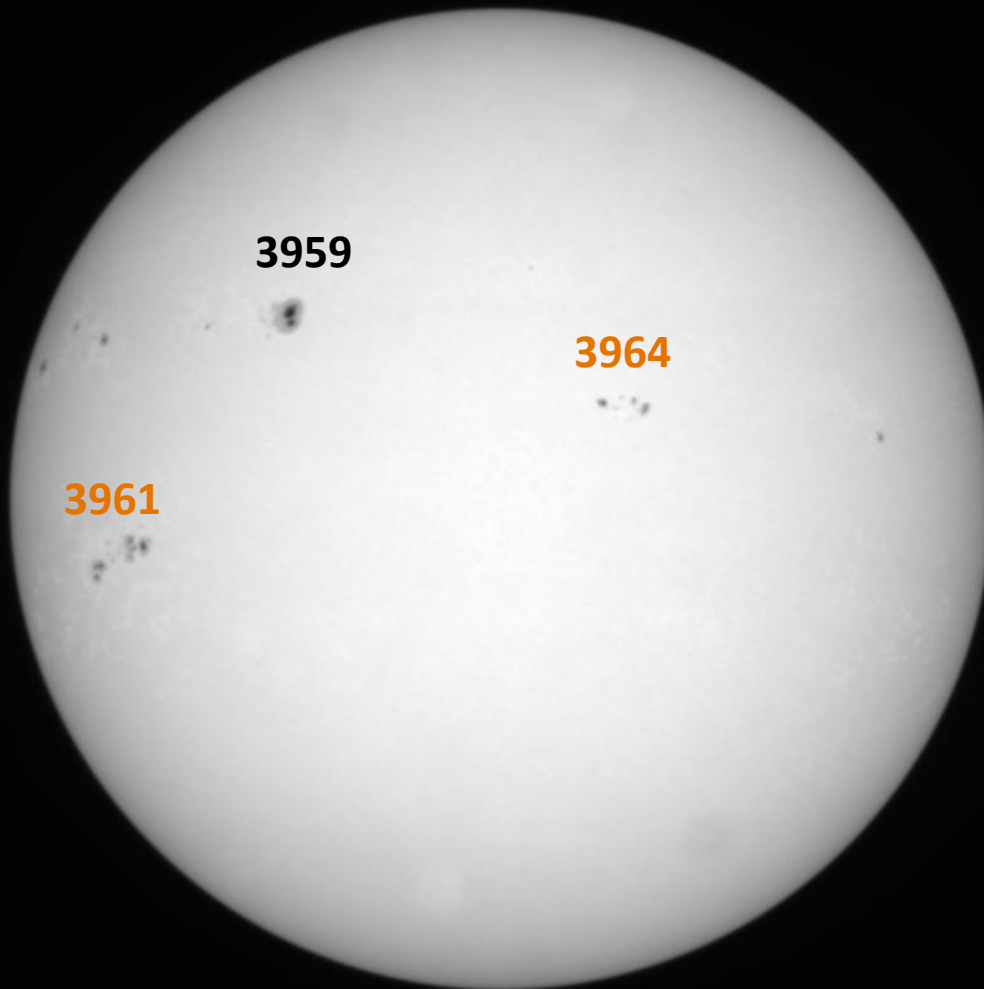


GONG Magnetogram 2025-01-13

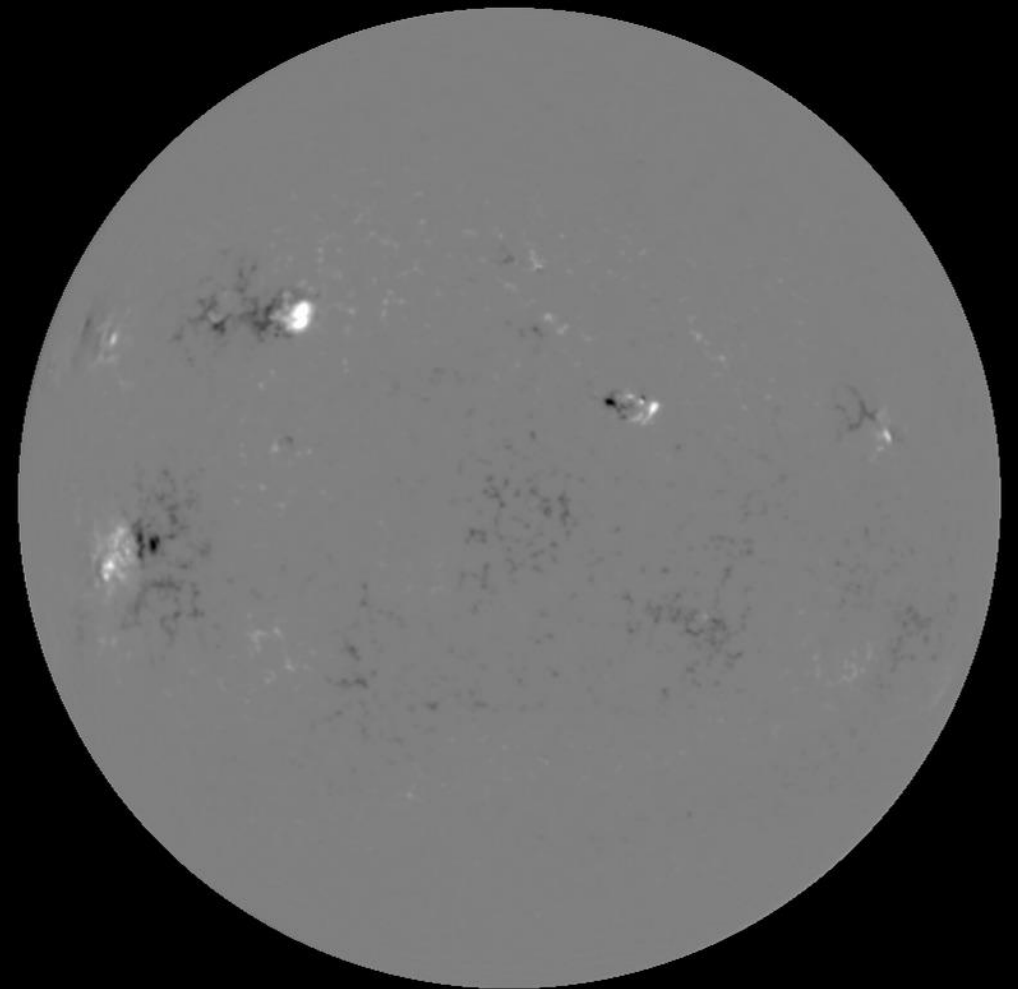


# Solar active regions

GONG 677 nm 2025-01-16

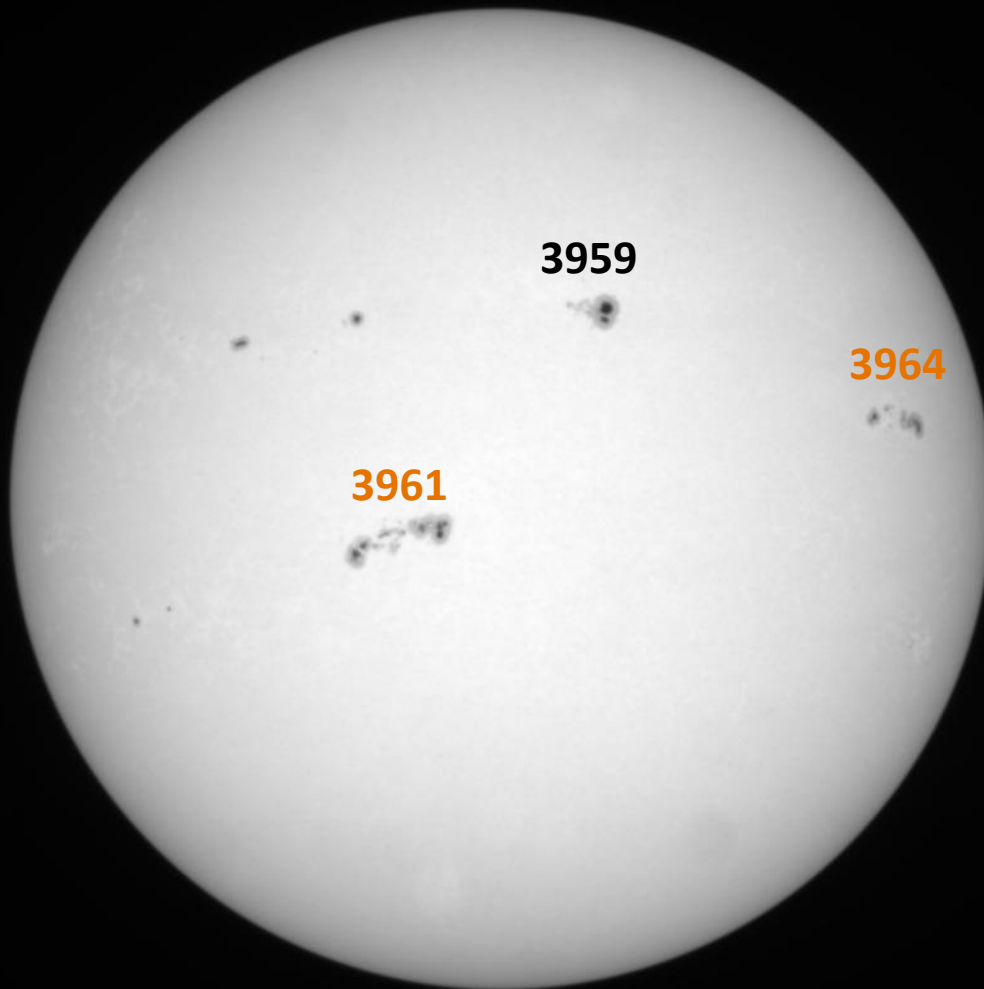


GONG Magnetogram 2025-01-16

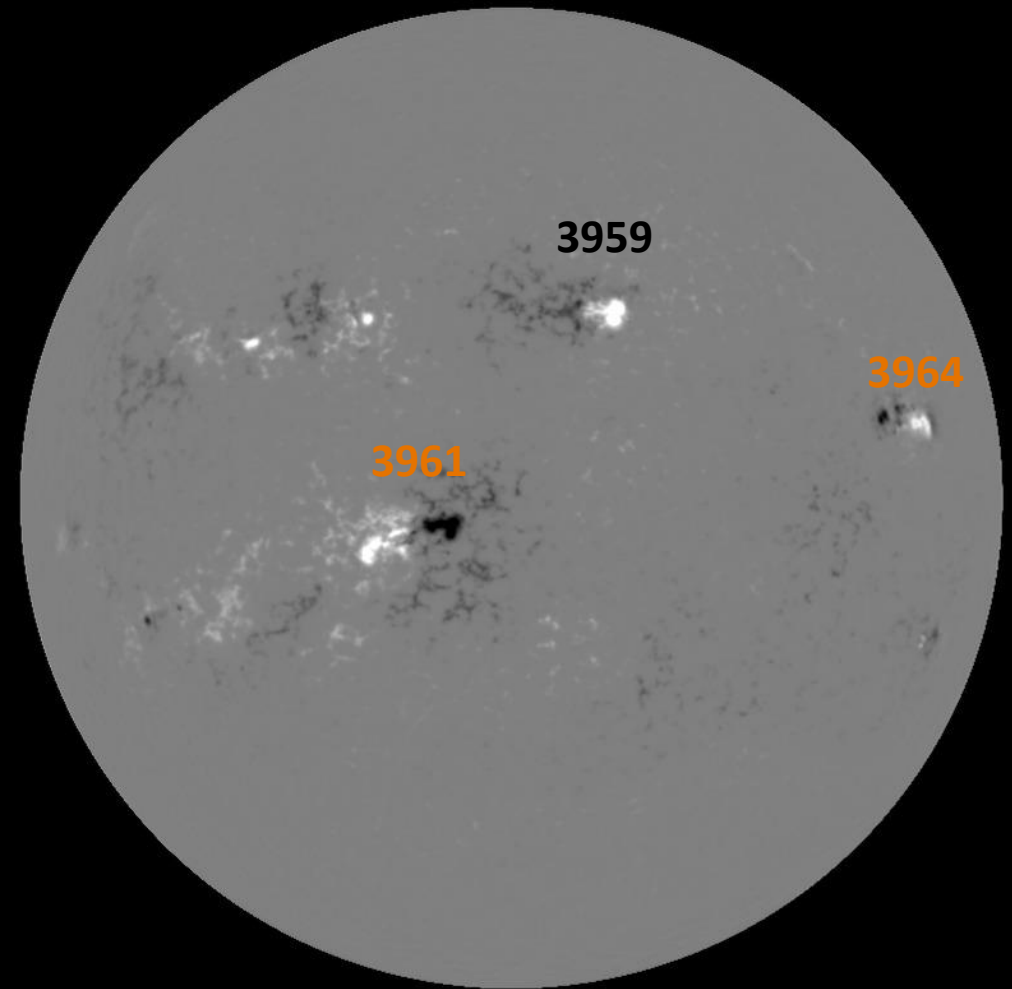


# Solar active regions

GONG 677 nm 2025-01-19



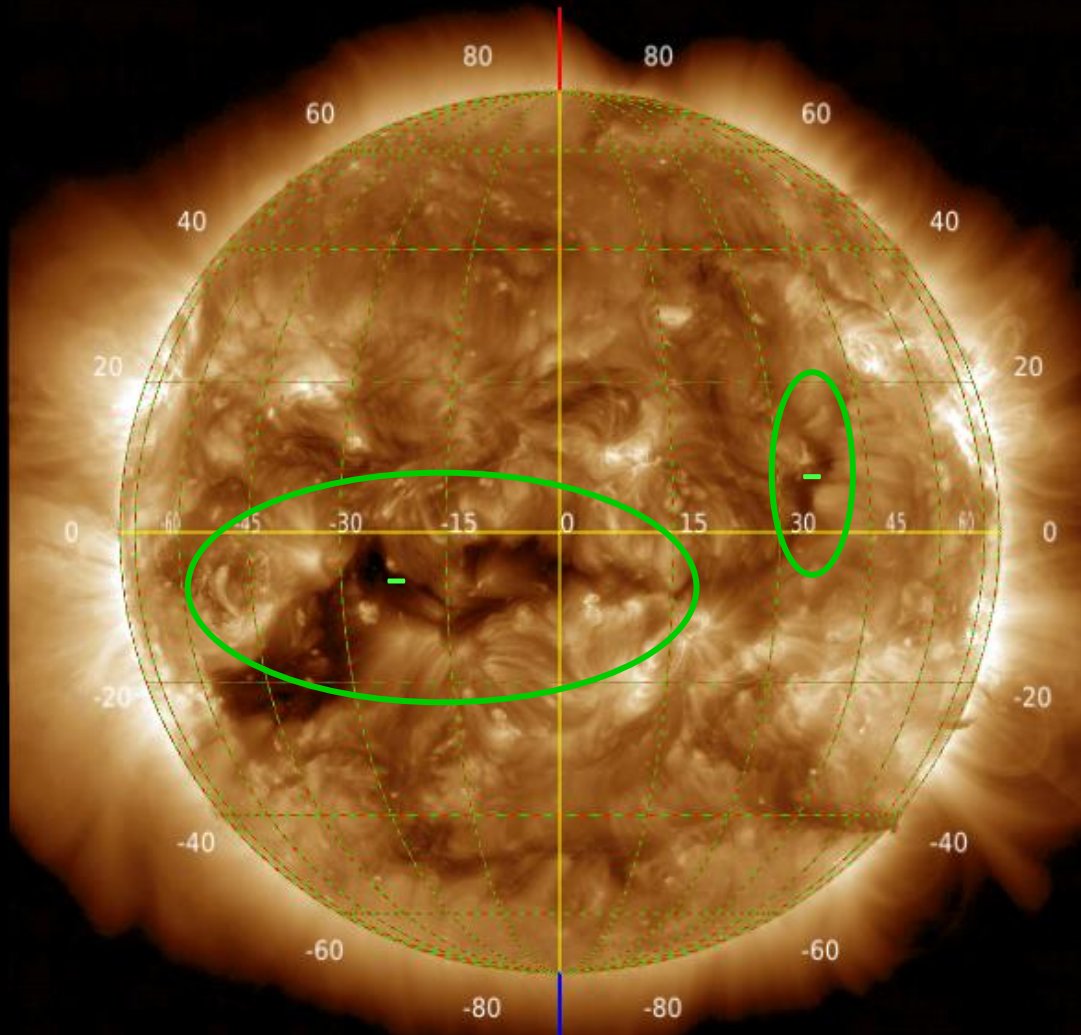
GONG Magnetogram 2025-01-19



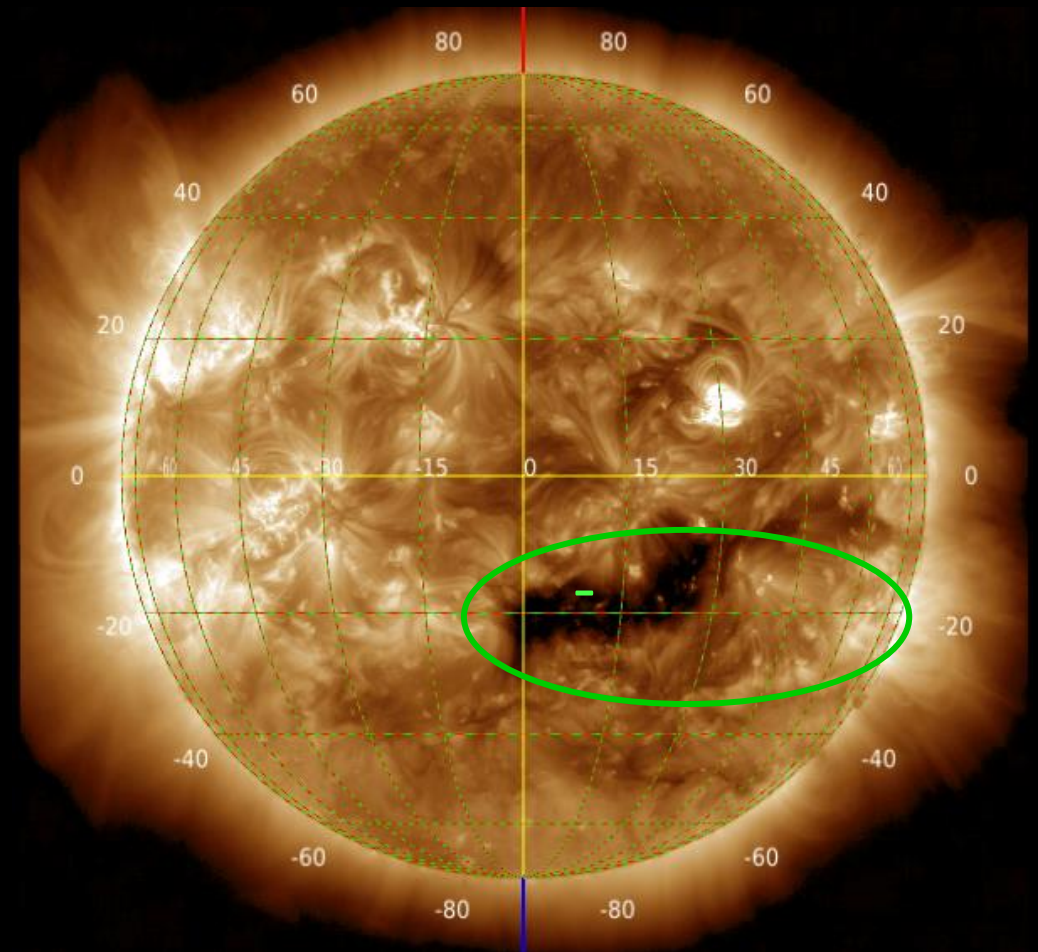


# Coronal holes

SDO/AIA 19.3 nm 2025-01-13

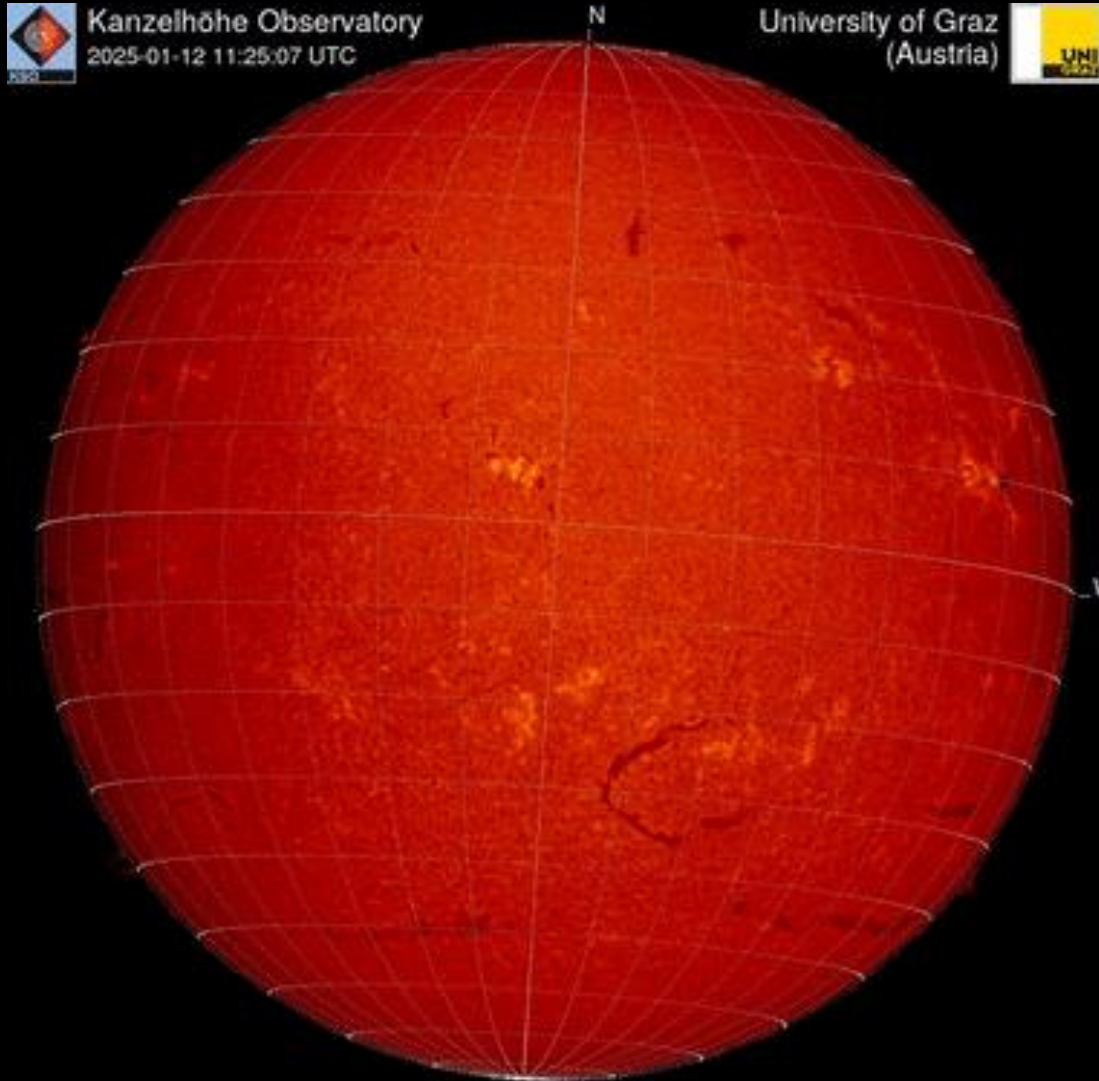


SDO/AIA 19.3 nm 2025-01-17

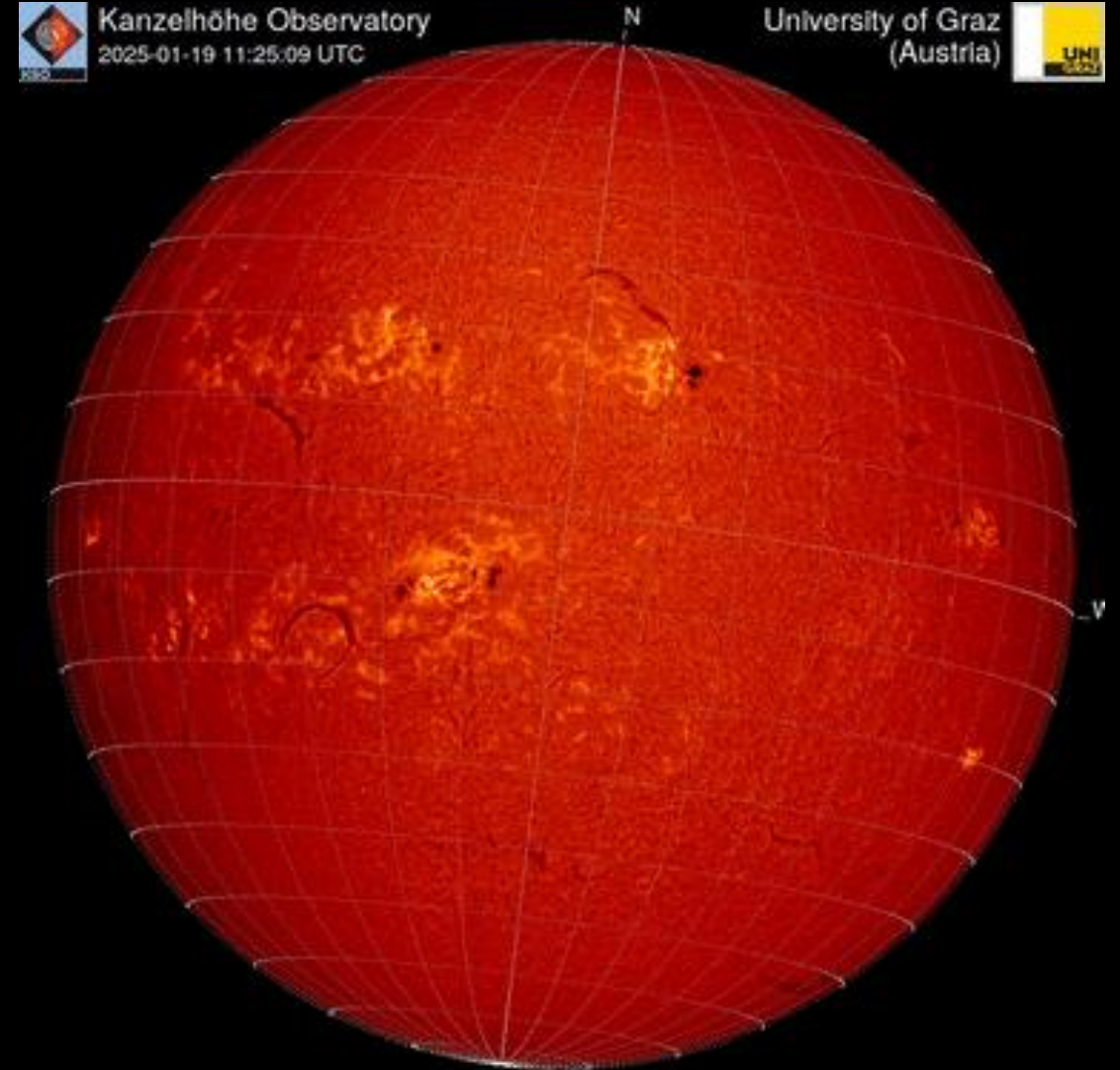


# Filaments & Filament eruptions

H-alpha 2025-01-12

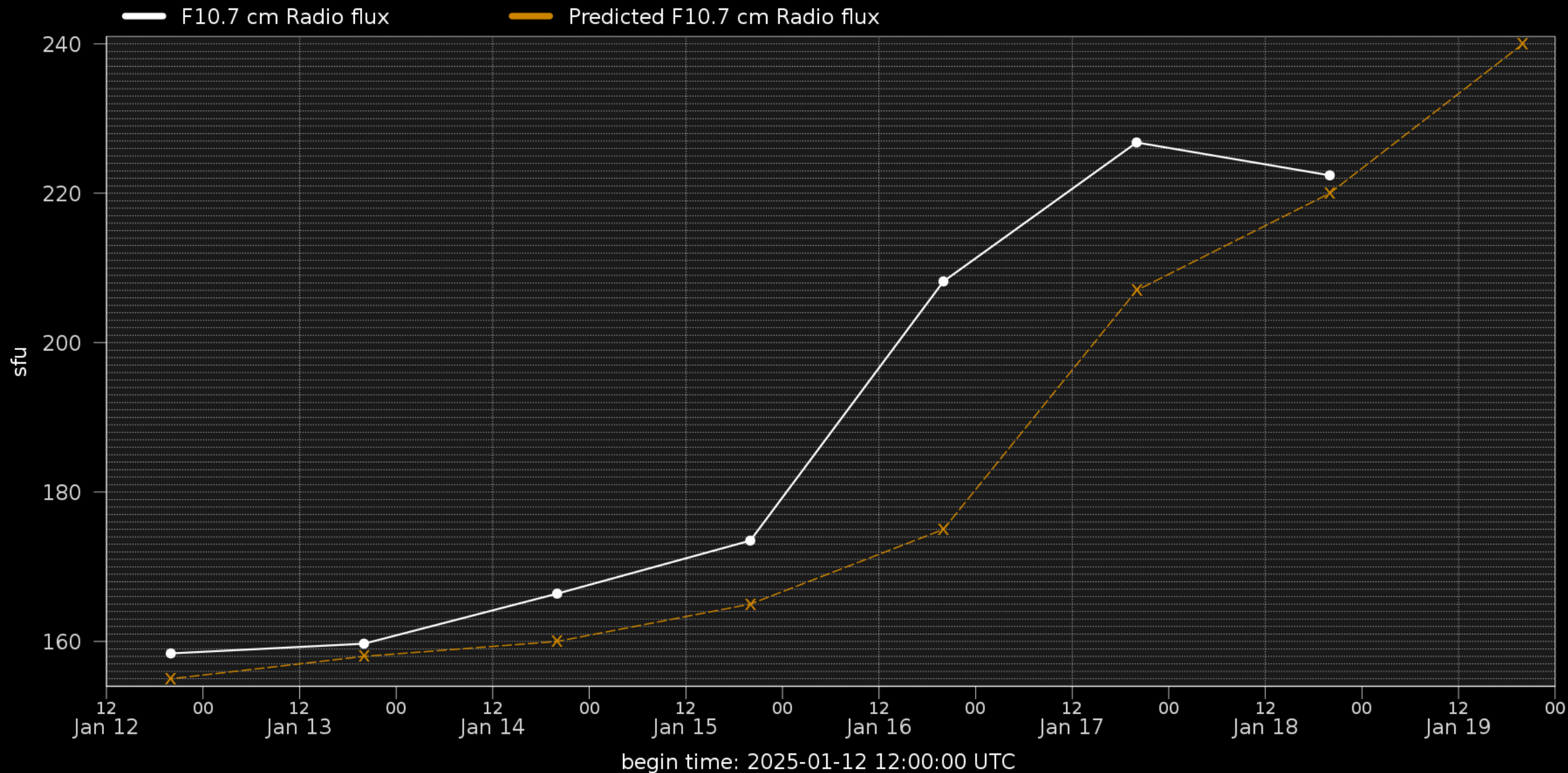


H-alpha 2025-01-19

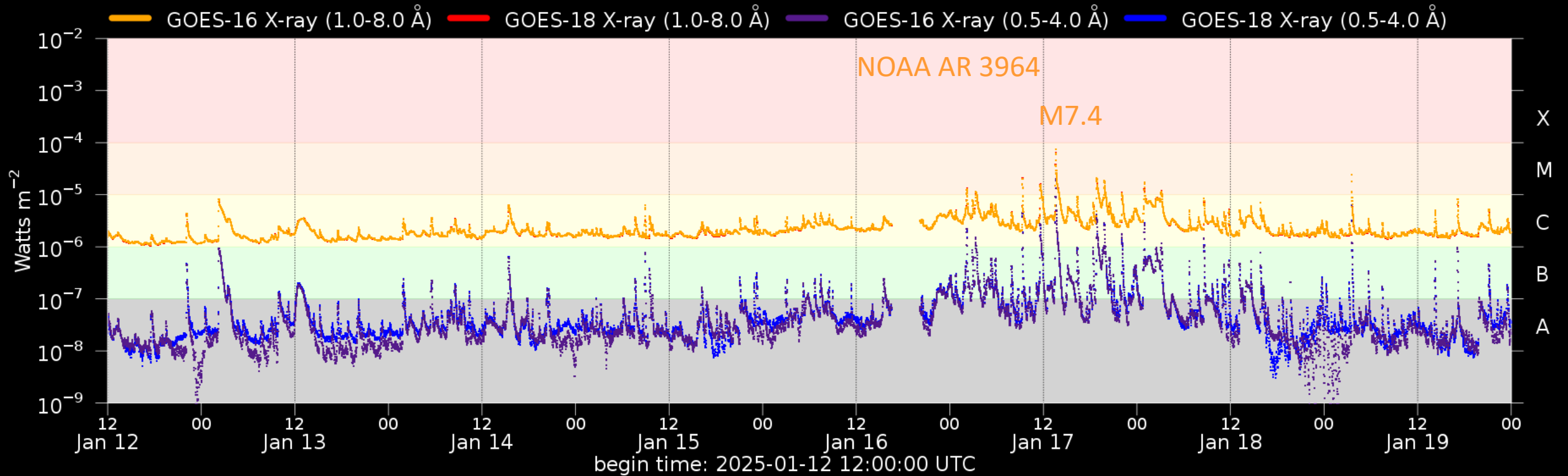




# Solar F10.7cm radio flux



# Flaring activity

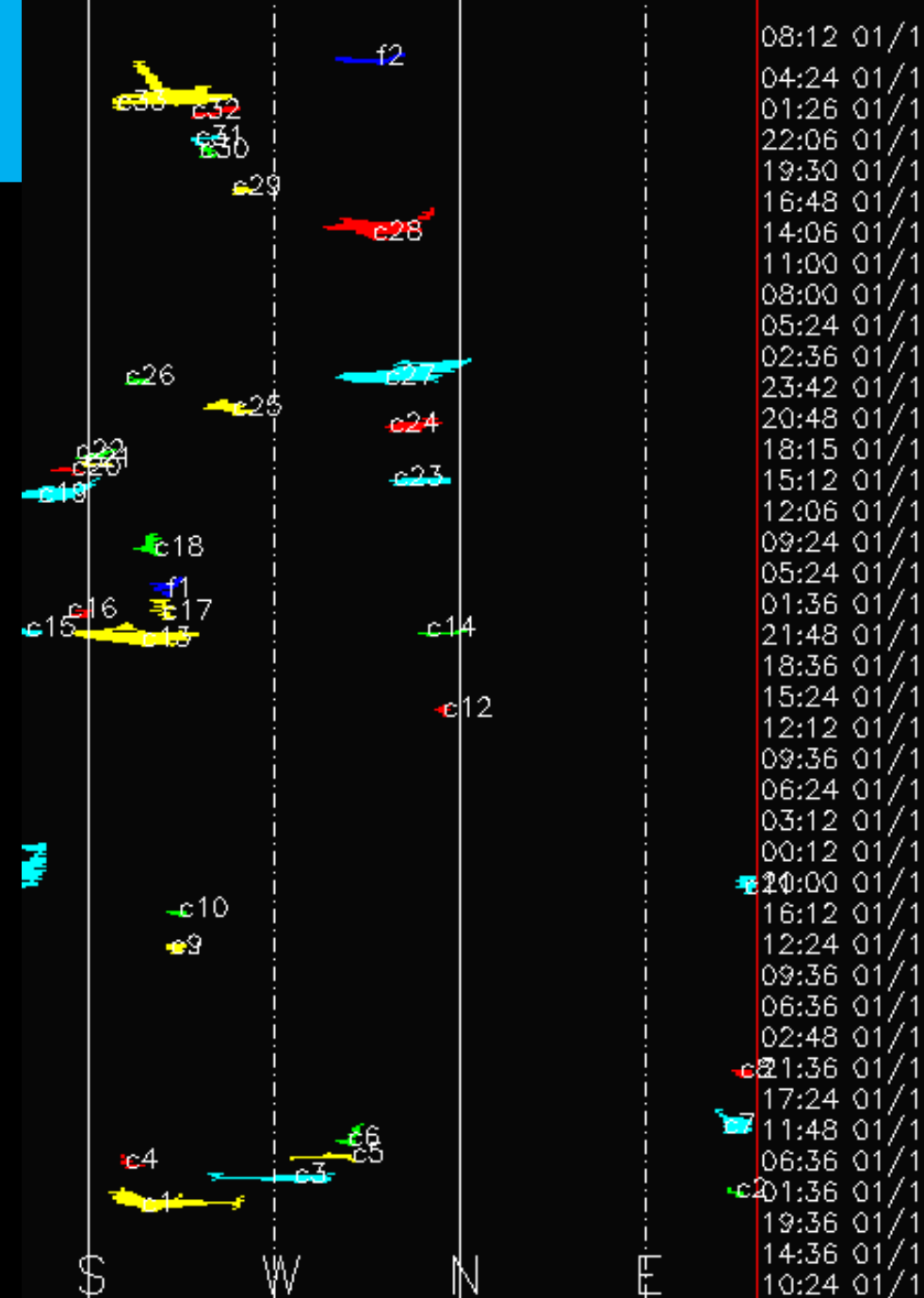


Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2025-01-12	2025-01-13	2025-01-14	2025-01-15	2025-01-16	2025-01-17	2025-01-18	2025-01-19
Probability (%)	91 40 05	96 44 01	96 46 01	97 55 04	99 89 15	99 98 31	99 93 21	99 96 28
Observed (#)	04 00 00	05 00 00	05 00 00	07 00 00	05 04 00	12 06 00	10 01 00	06 00 00

# Coronal Mass Ejections

No Earth directed CMEs observed during the week.



Solar Wind and

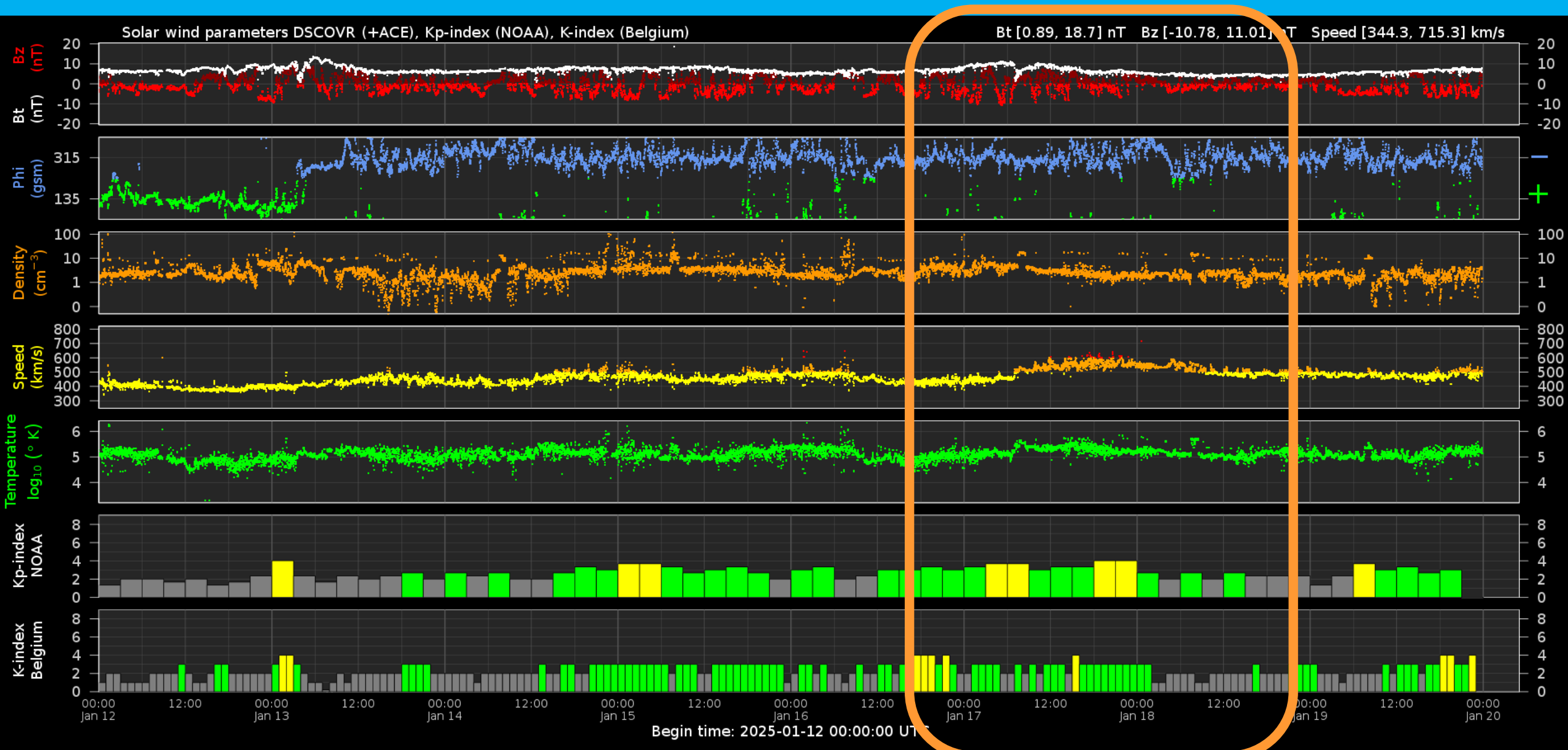
# Geomagnetic Activity



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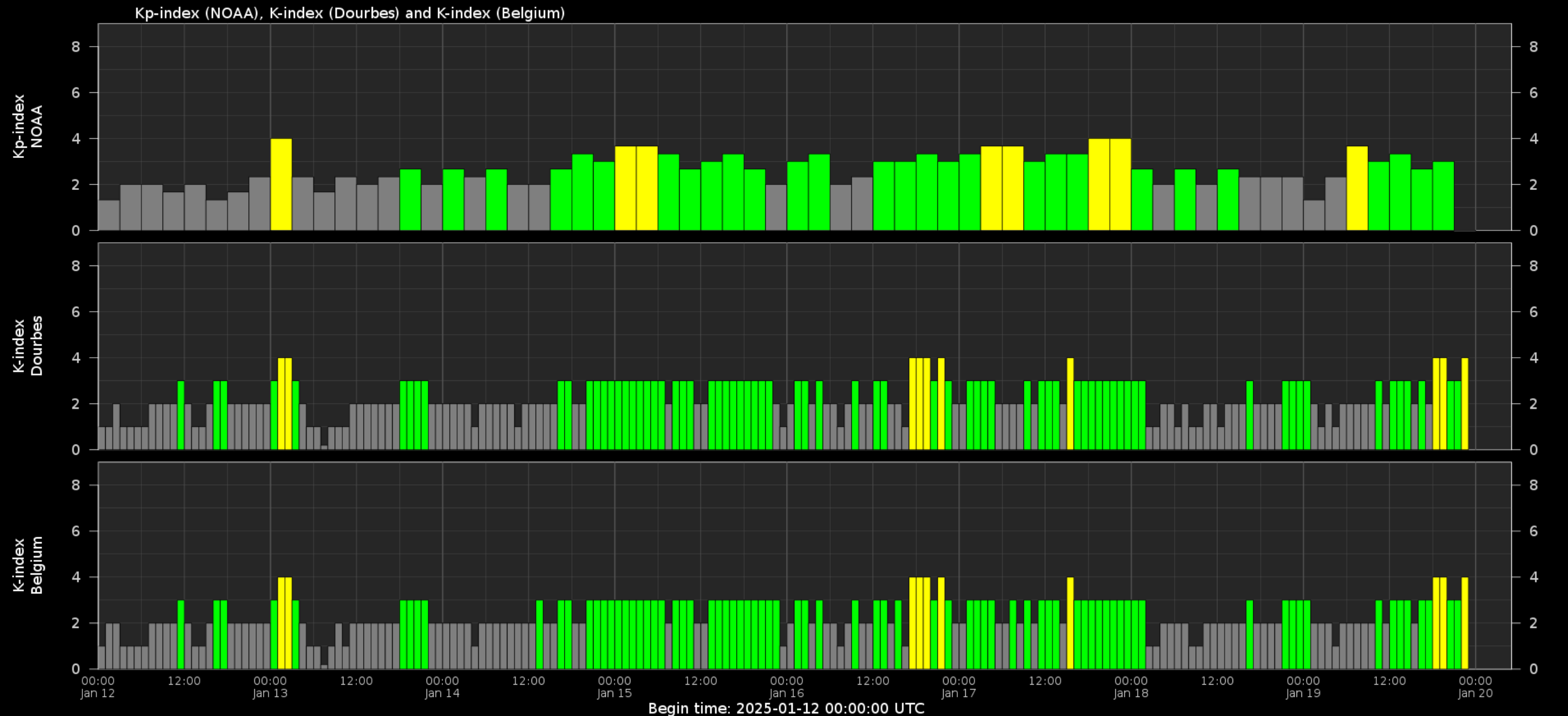
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# Solar wind parameters & K-indices





# Geomagnetic activity (K-indexes)



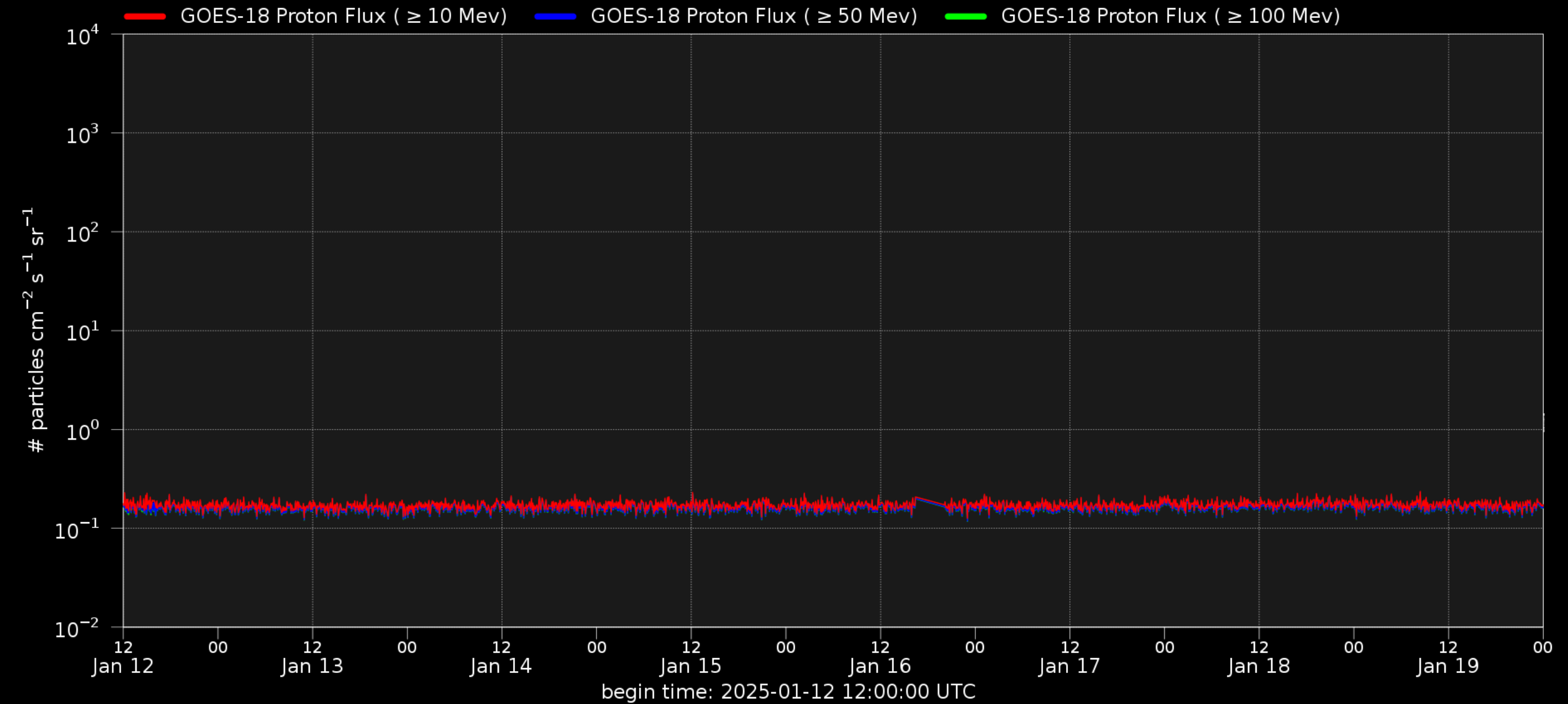
# Energetic Particles



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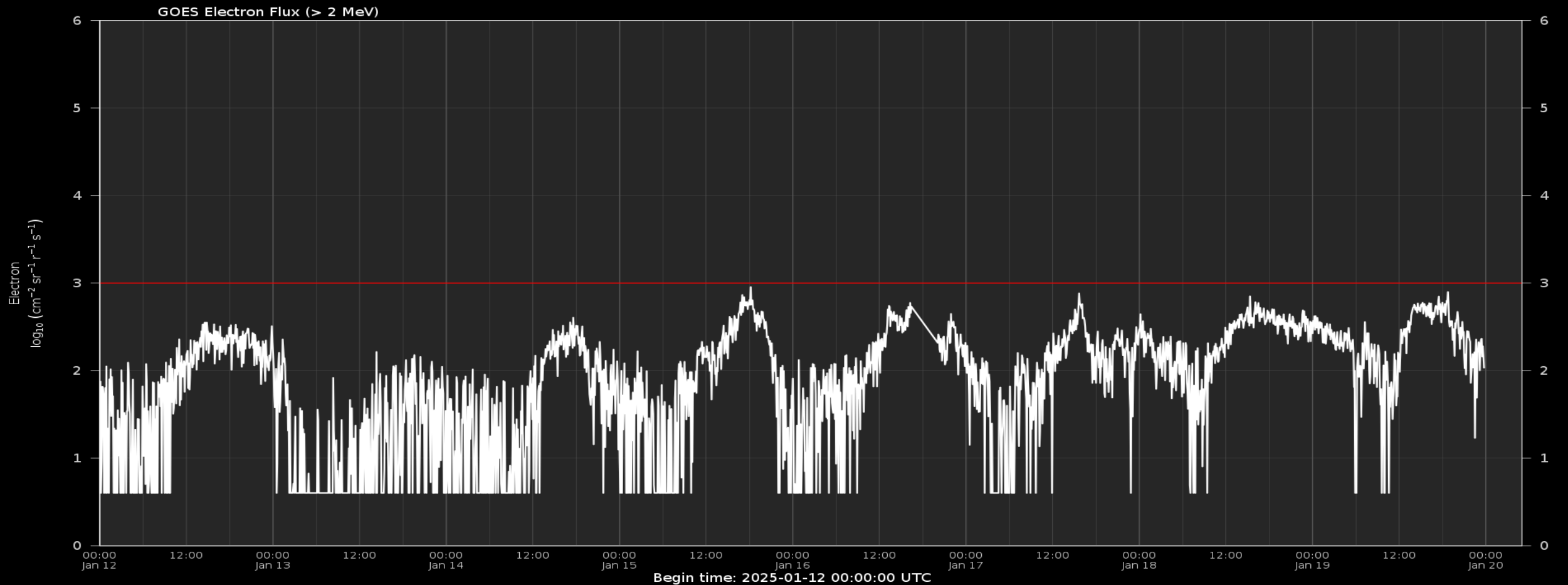
# Solar proton flux



# 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

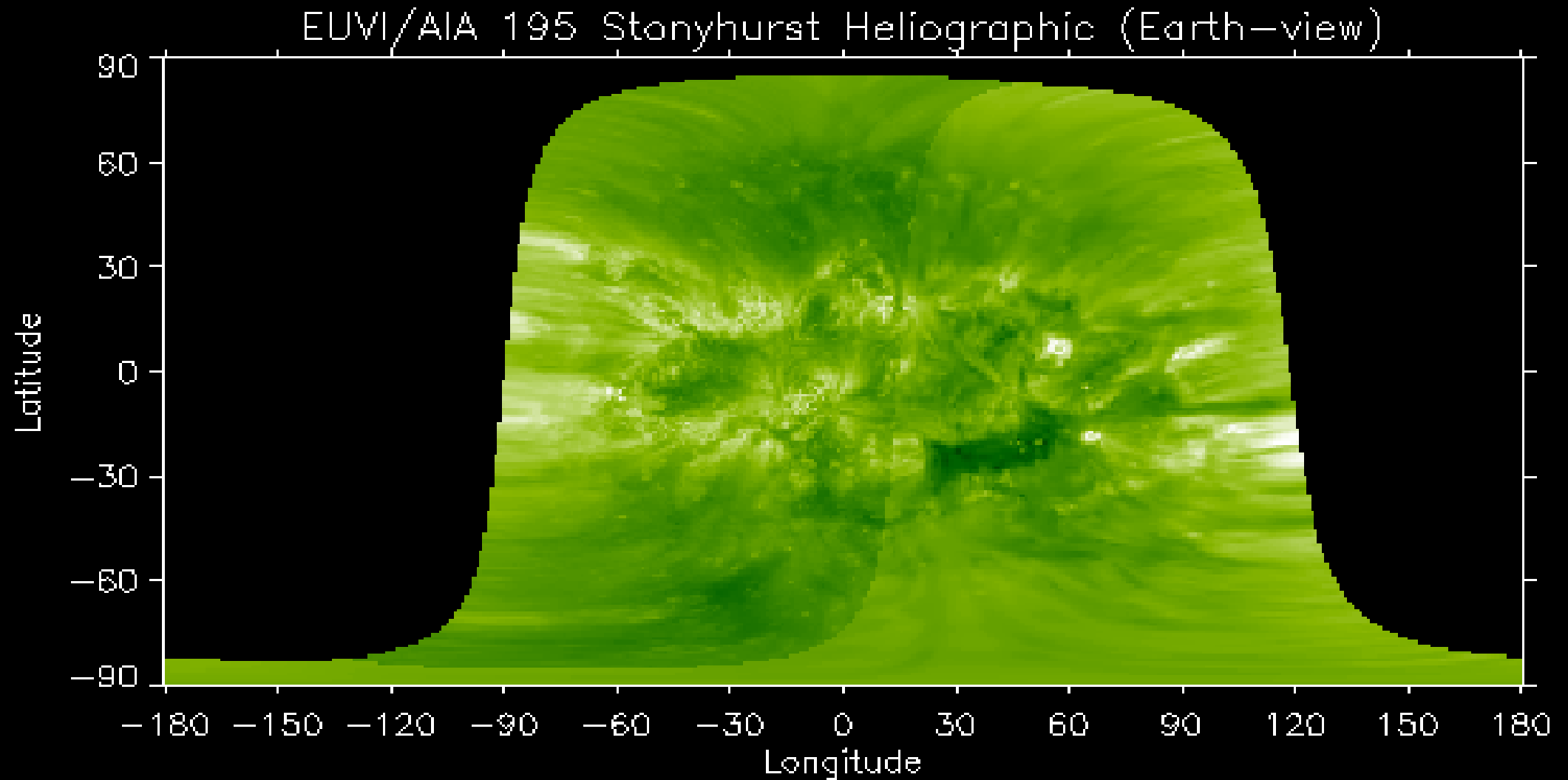


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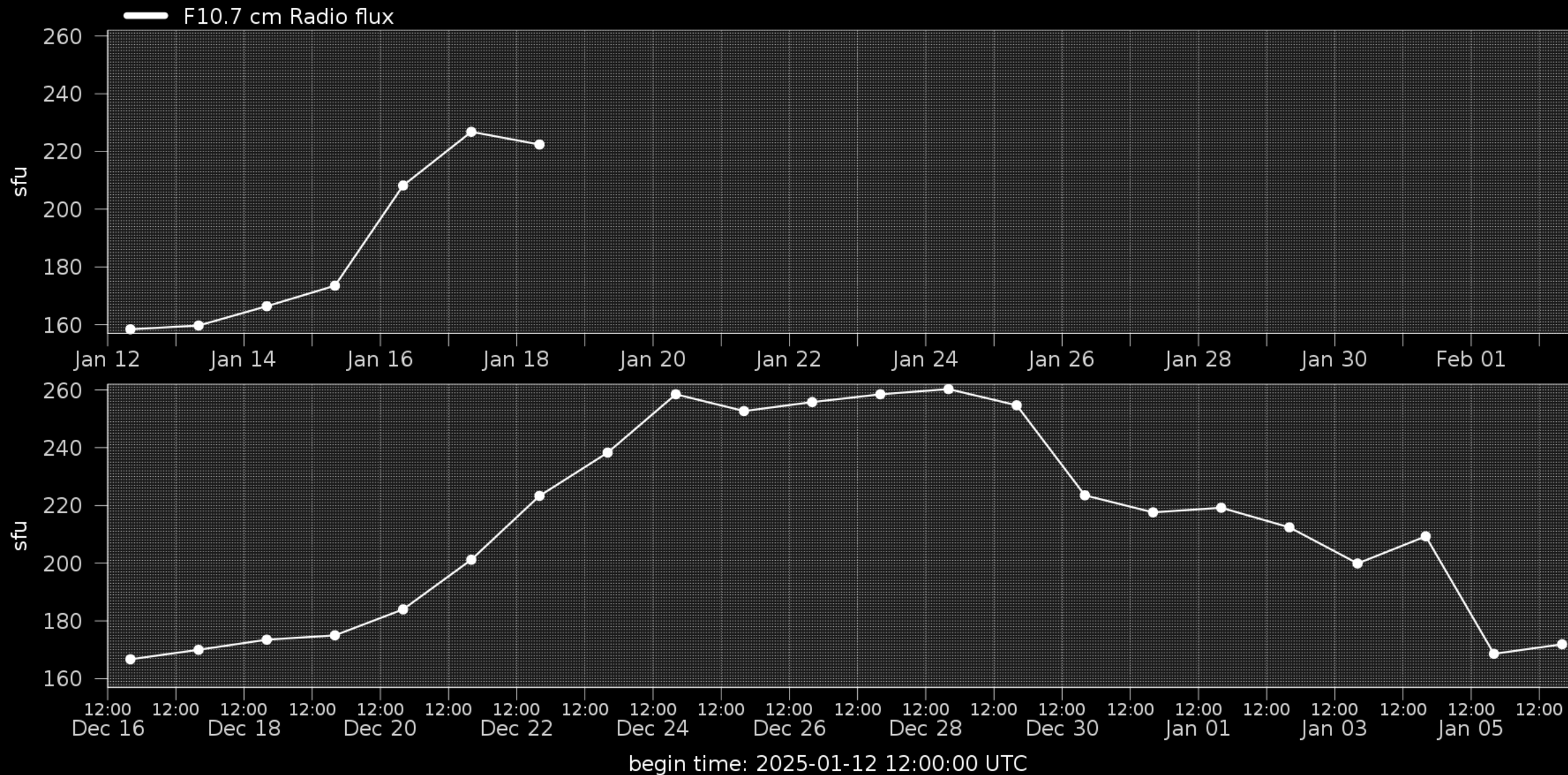


# Outlook: Solar activity



Observation date: 2025/01/19 17:35:00

# Outlook: Solar F10.7cm radio flux



# Outlook: Electron Flux at GEO Outlook



PECASUS



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# Pecausus related events

Amplitude and Phase scintillation advisories



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