SIDC Space Weather Briefing

19 October 2026-25 October 2026

Dimitrios Millas & Alfredo Micera

& the SIDC forecaster team

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-10-19 00:00 to 2026-10-25 23:59

Active regions	6 active regions; most complex: SIDC 985/NOAA 4560 (briefly βγδ)
Flares	# C-class flare: 31 # M-class flare: 1 # X-class flare: 0
Coronal Holes	1 + / 2 -
CMEs	A few, not Earth-directed

Proton flux	Nominal
Electron flux	Over the 1000 pfu threshold since October 23

Solar wind and geomagnetic conditions

ICMEs	None
Solar wind conditions	|B|: 1.11 - 11.48 nT// Bz: -9.91 nT to 7.05 nT// Speed: 317.5 - 527.1 km/s
Geomagnetic conditions	max KBel: 5.0, max Kp(NOAA): 4.67, Minor Storm conditions

All Quiet Alert: Off

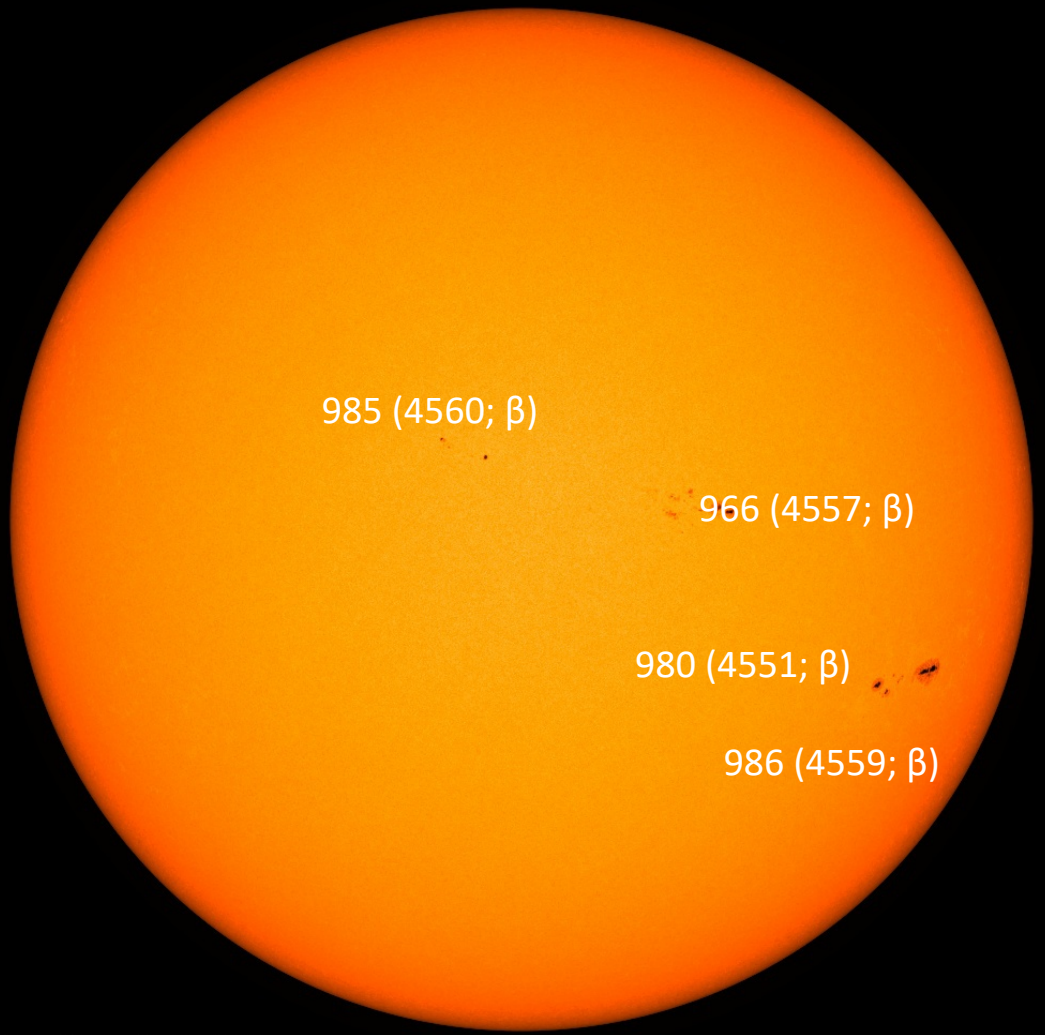
Solar Activity

Royal Observatory
of Belgium

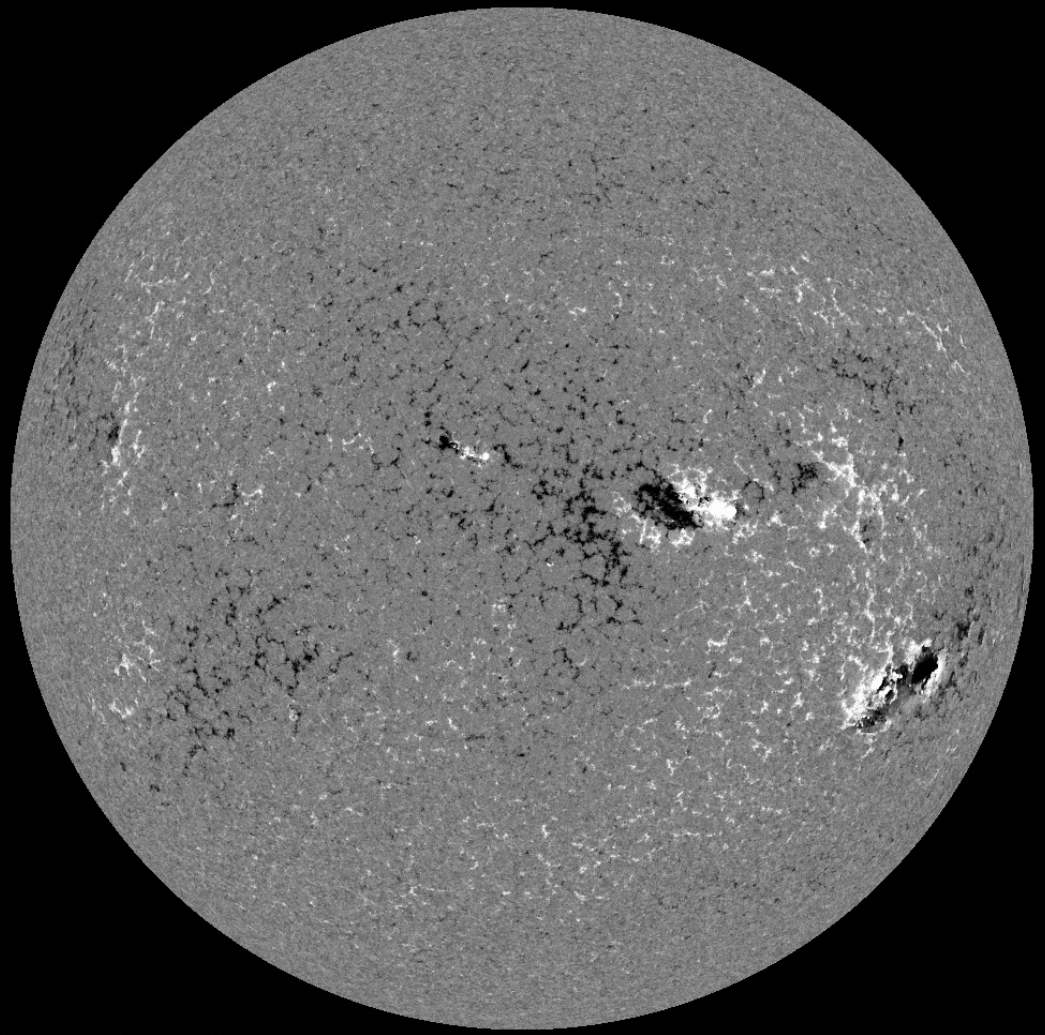
Solar Influences
Data analysis Centre
www.sidc.be

Solar active regions

SDO/HMI White Light 2026-10-19

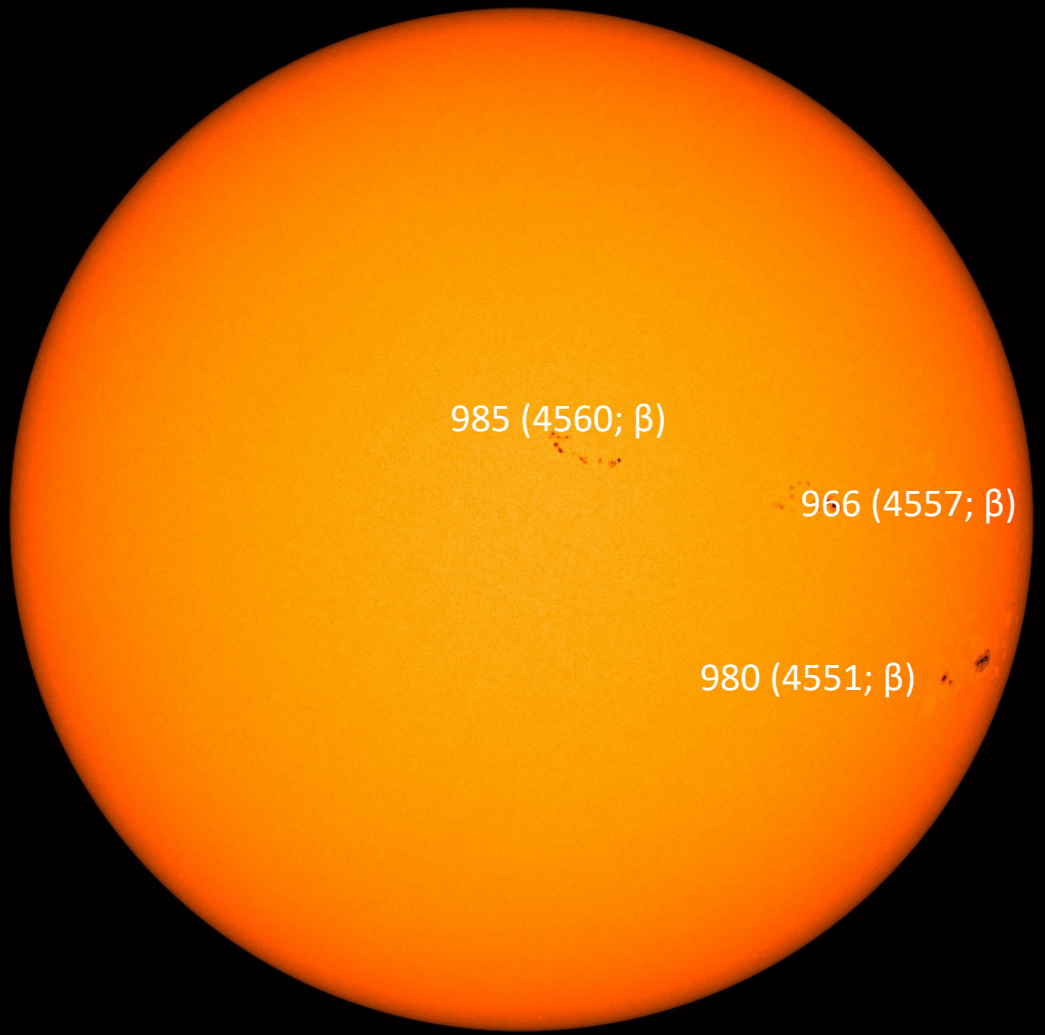


SDO/HMI Magnetogram 2026-10-19

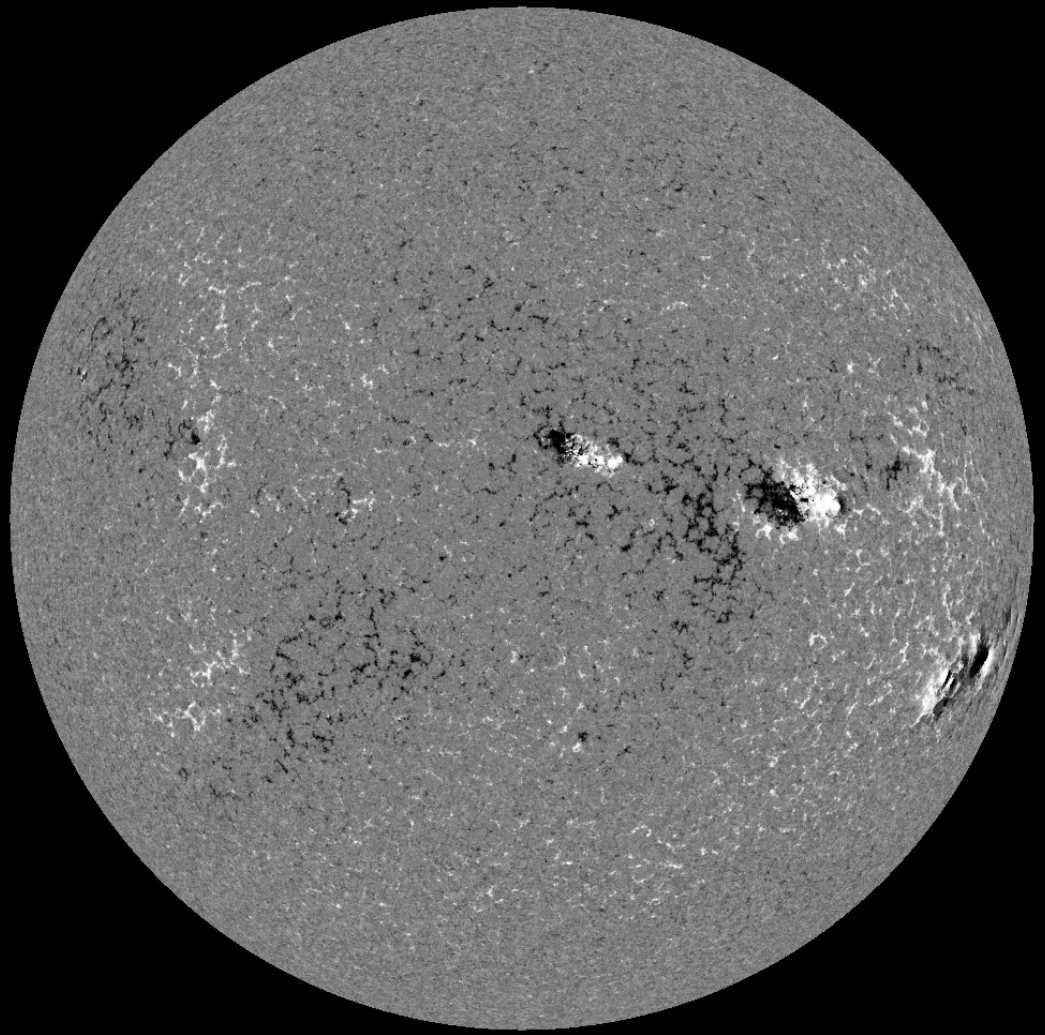


Solar active regions

SDO/HMI White Light 2026-10-20

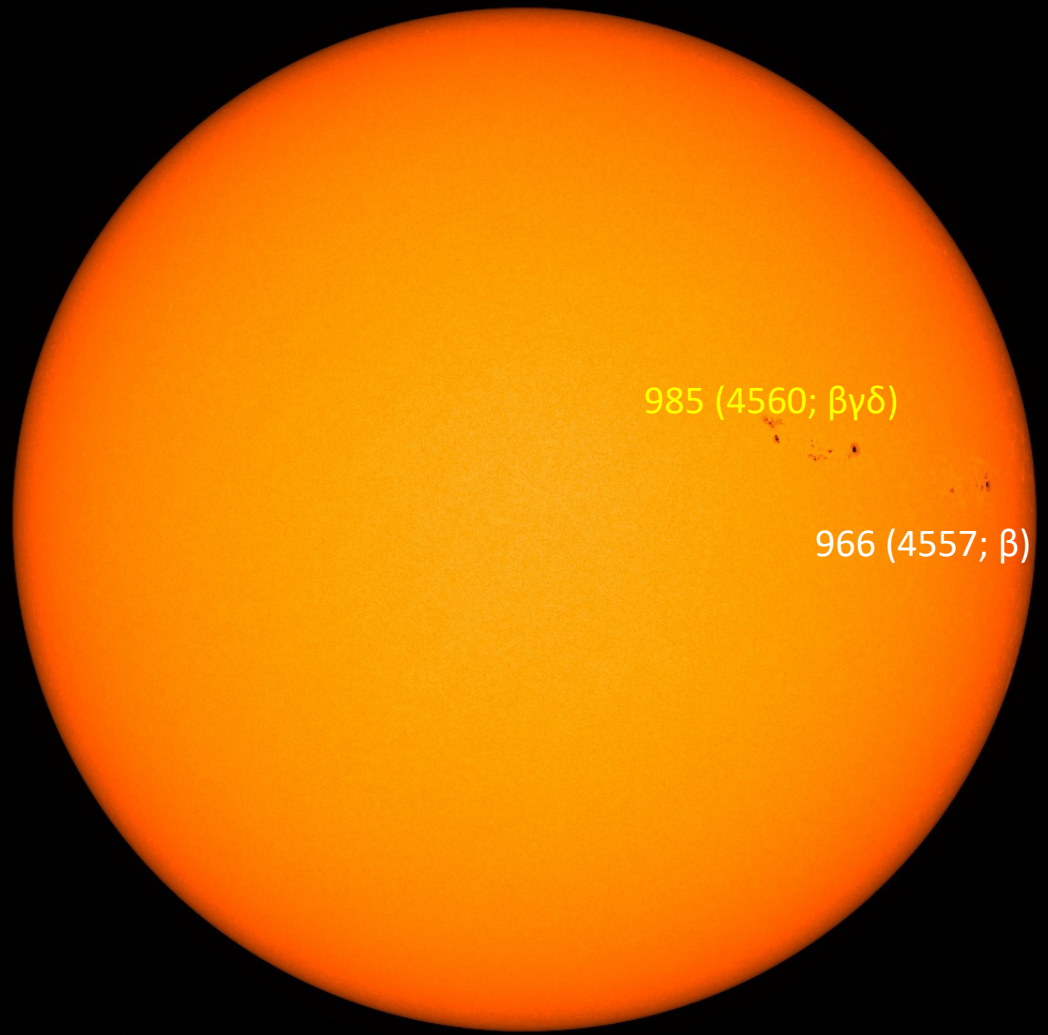


SDO/HMI Magnetogram 2026-10-20

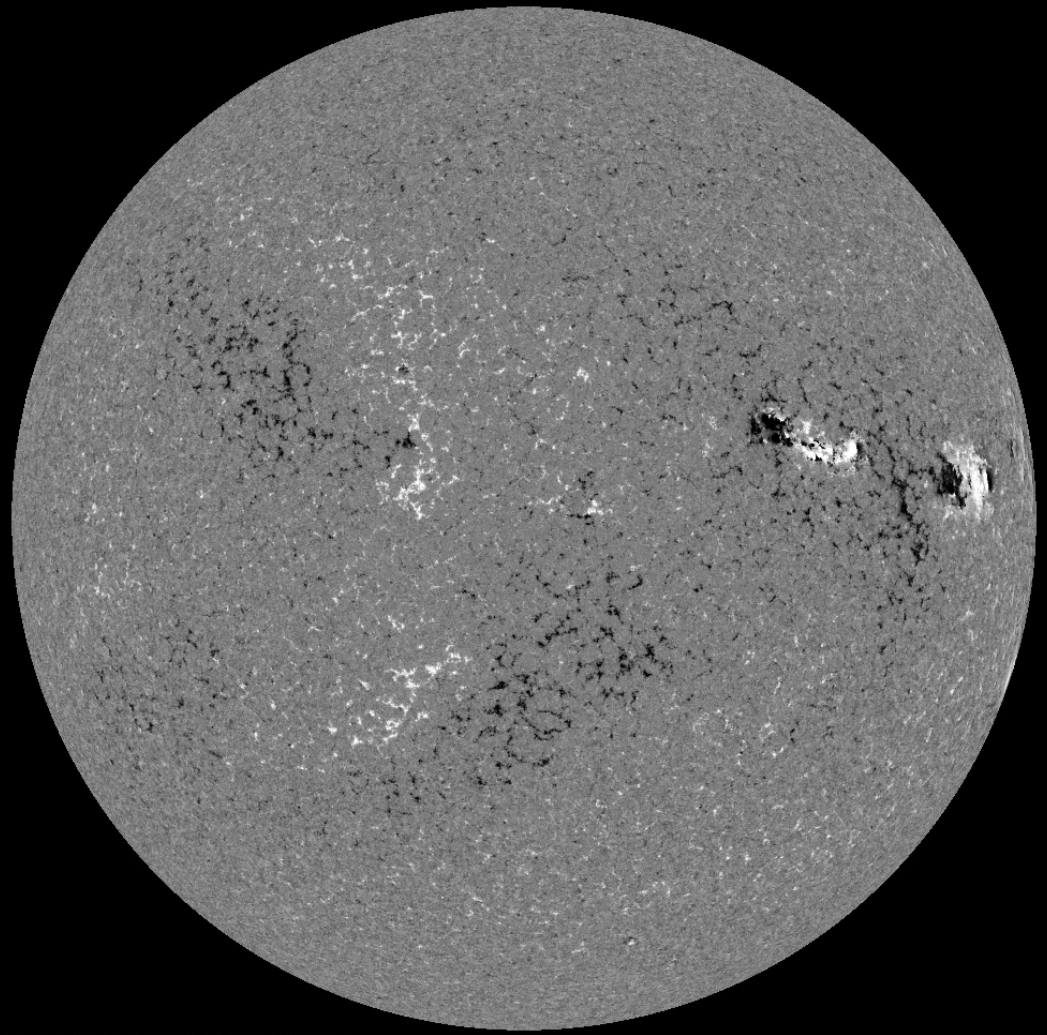


Solar active regions

SDO/HMI White Light 2026-10-22

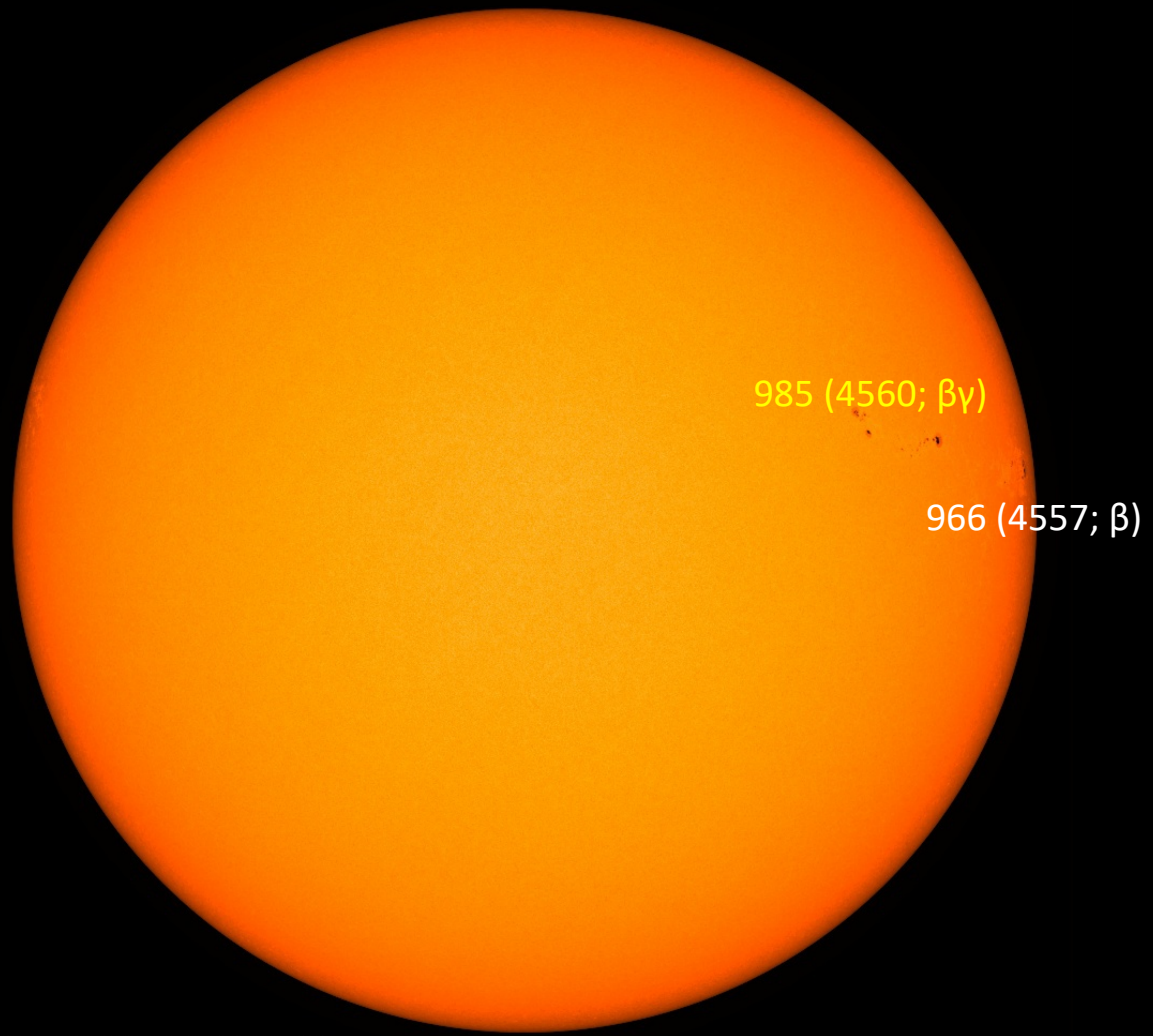


SDO/HMI Magnetogram 2026-10-22

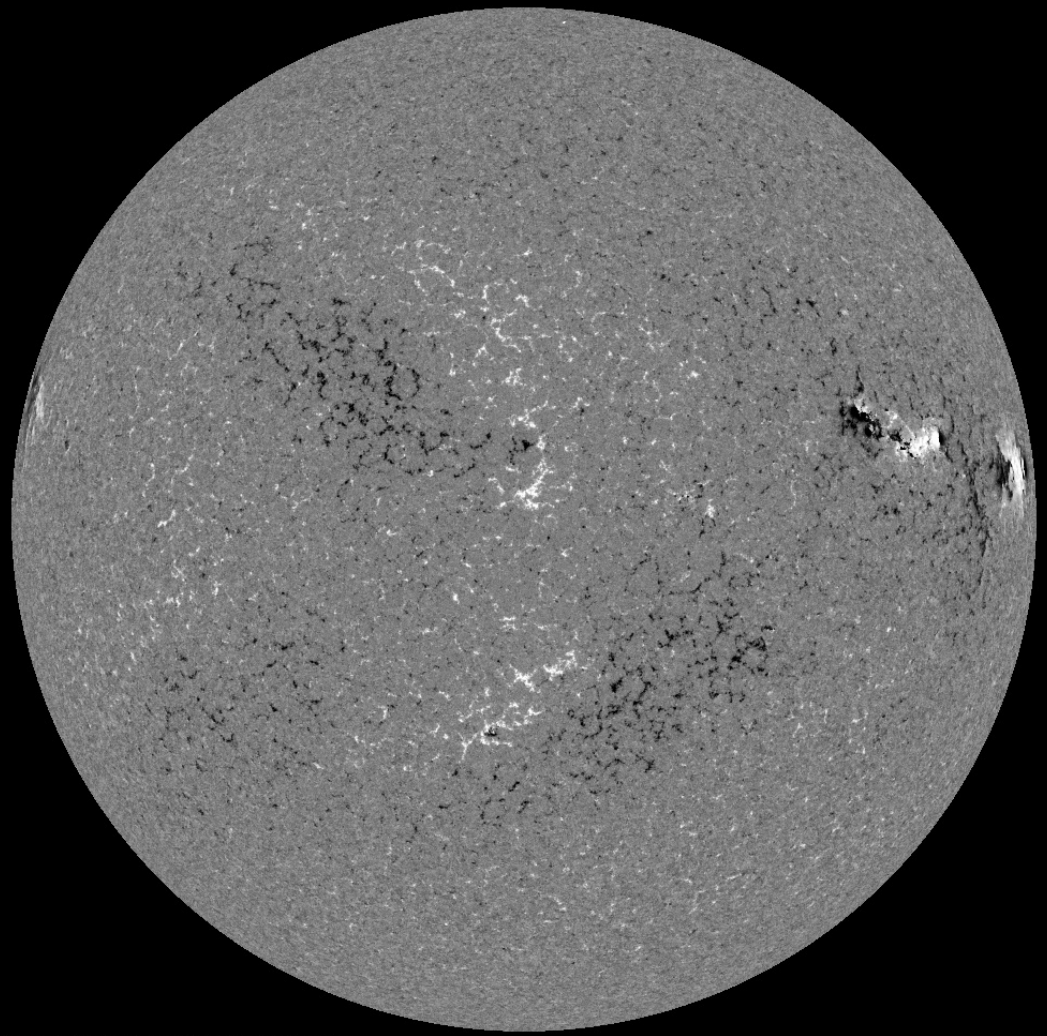


Solar active regions

SDO/HMI White Light 2026-10-23

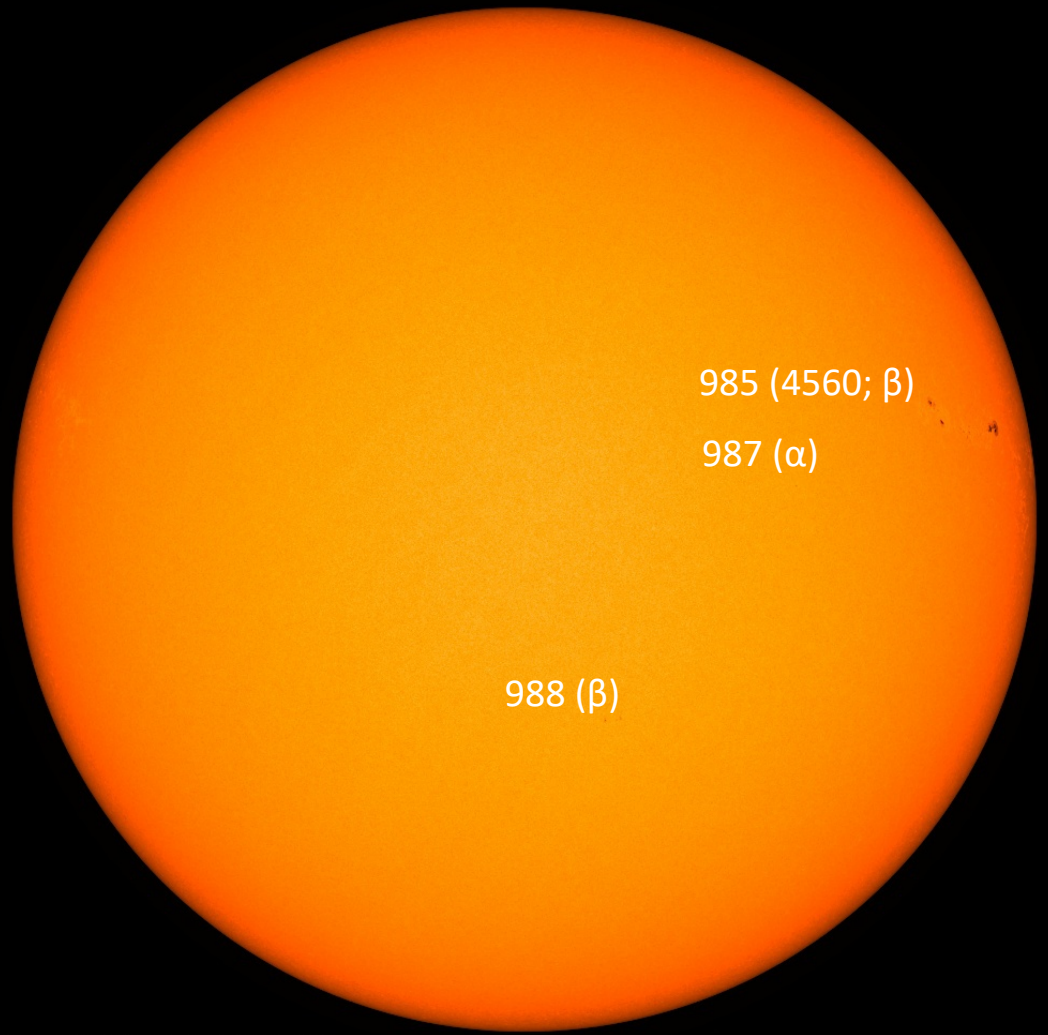


SDO/HMI Magnetogram 2026-10-23

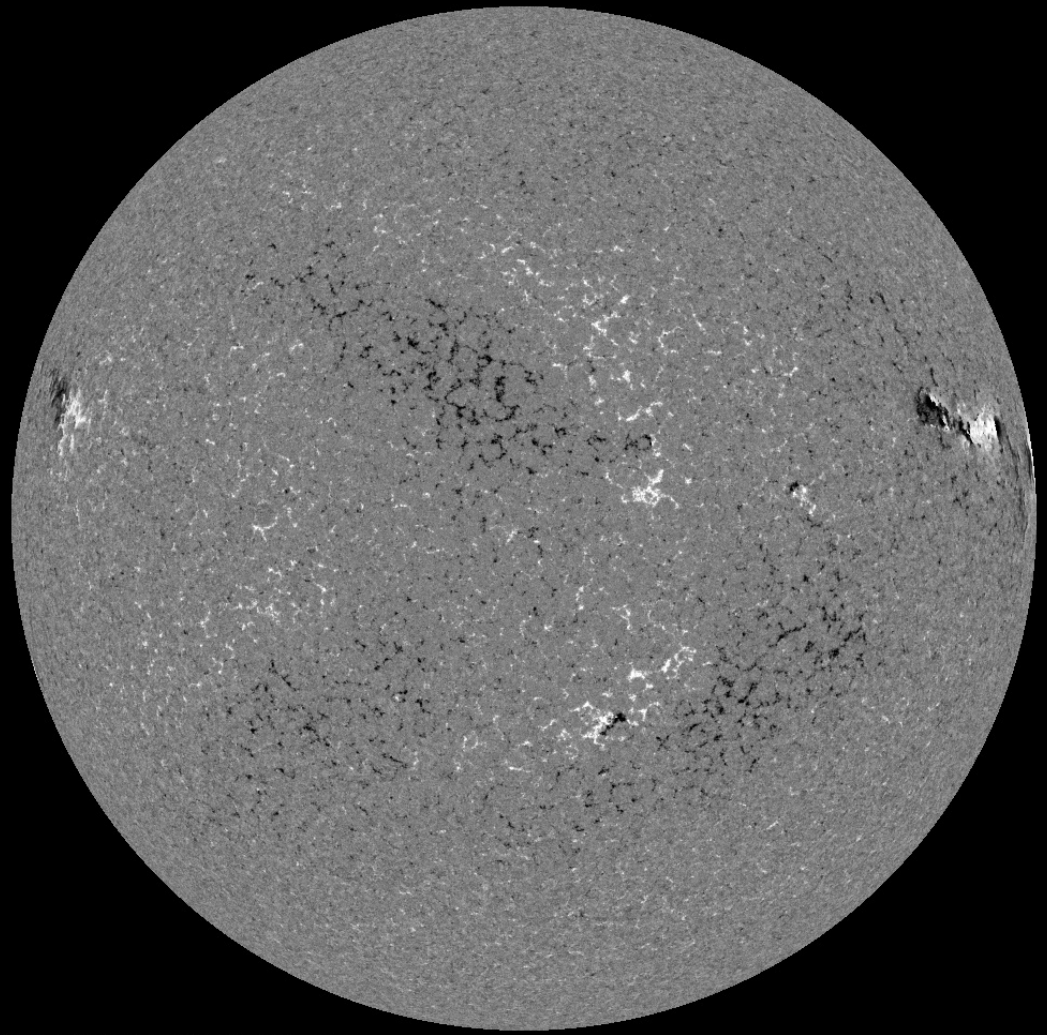


Solar active regions

SDO/HMI White Light 2026-10-24

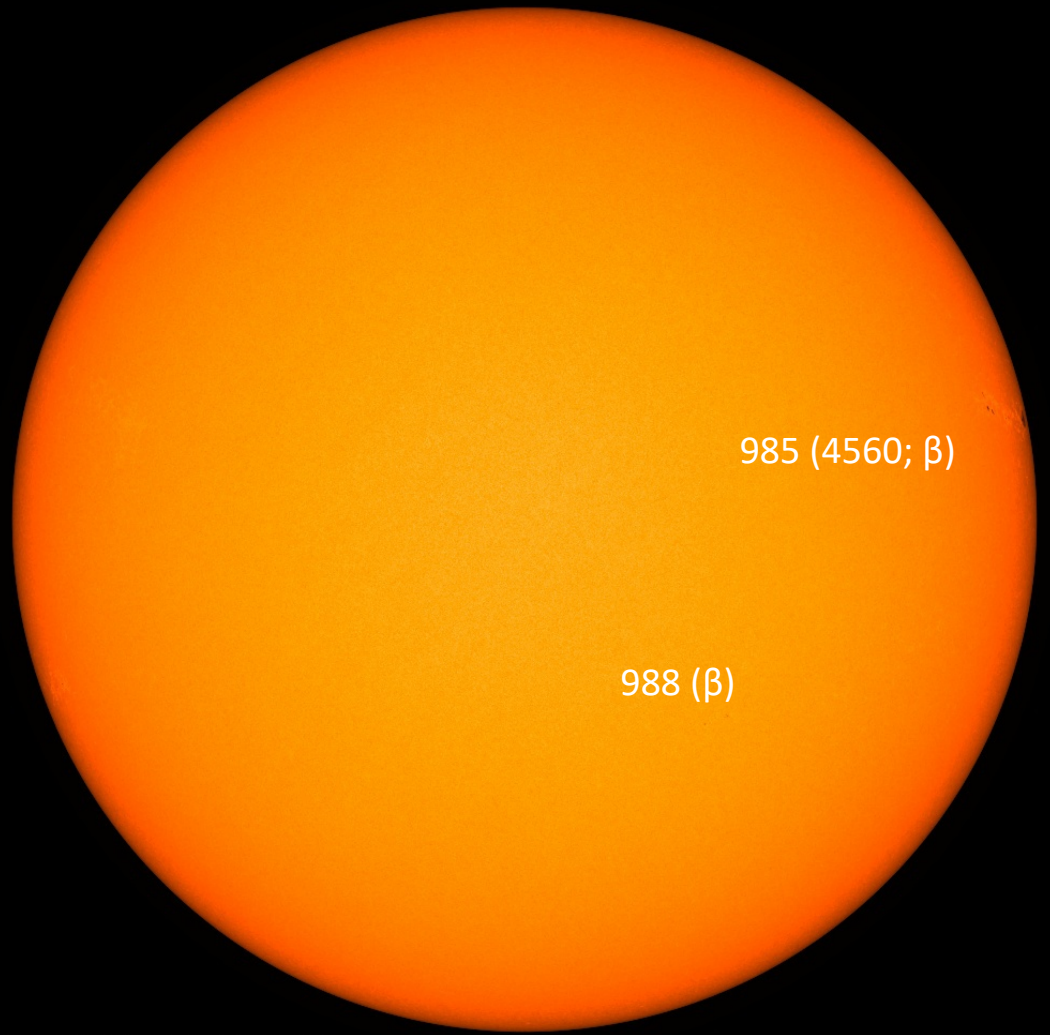


SDO/HMI Magnetogram 2026-10-24

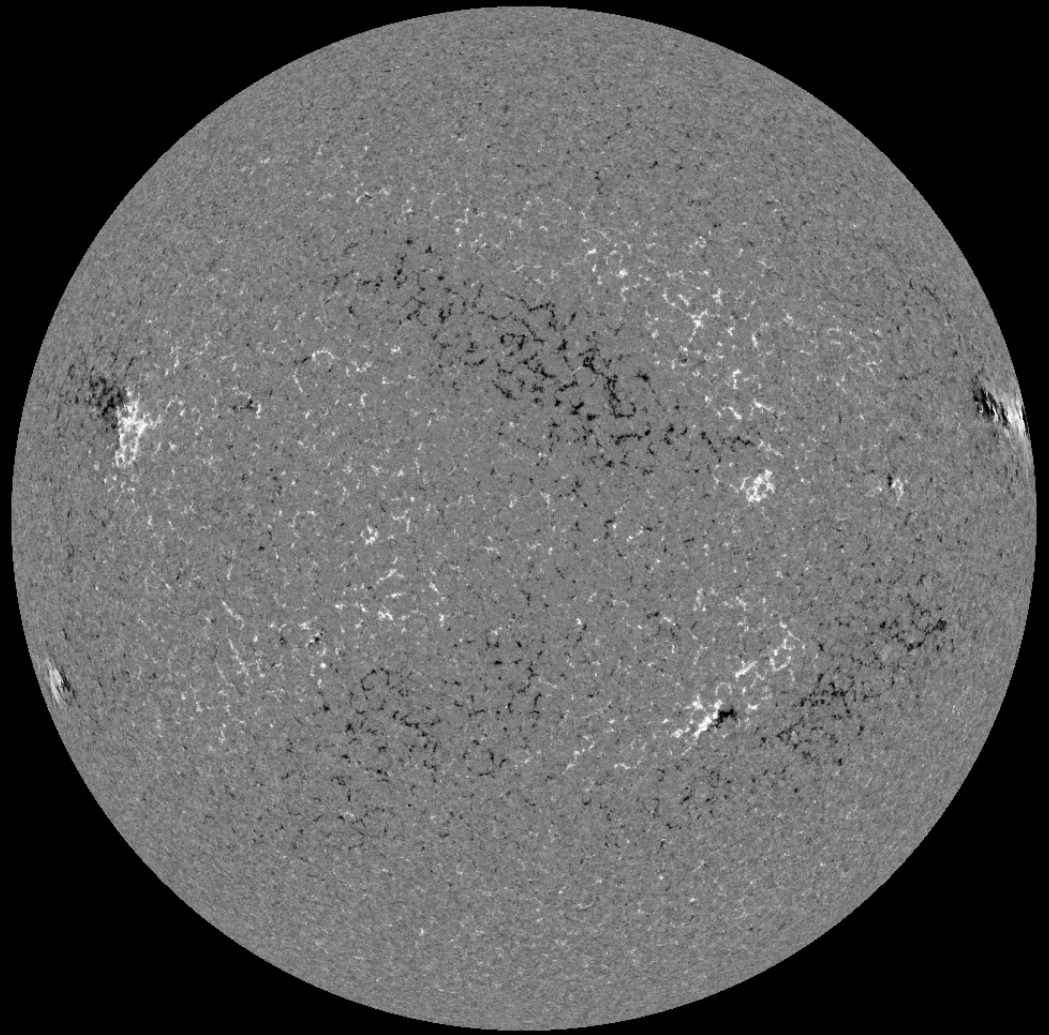


Solar active regions

SDO/HMI White Light 2026-10-25

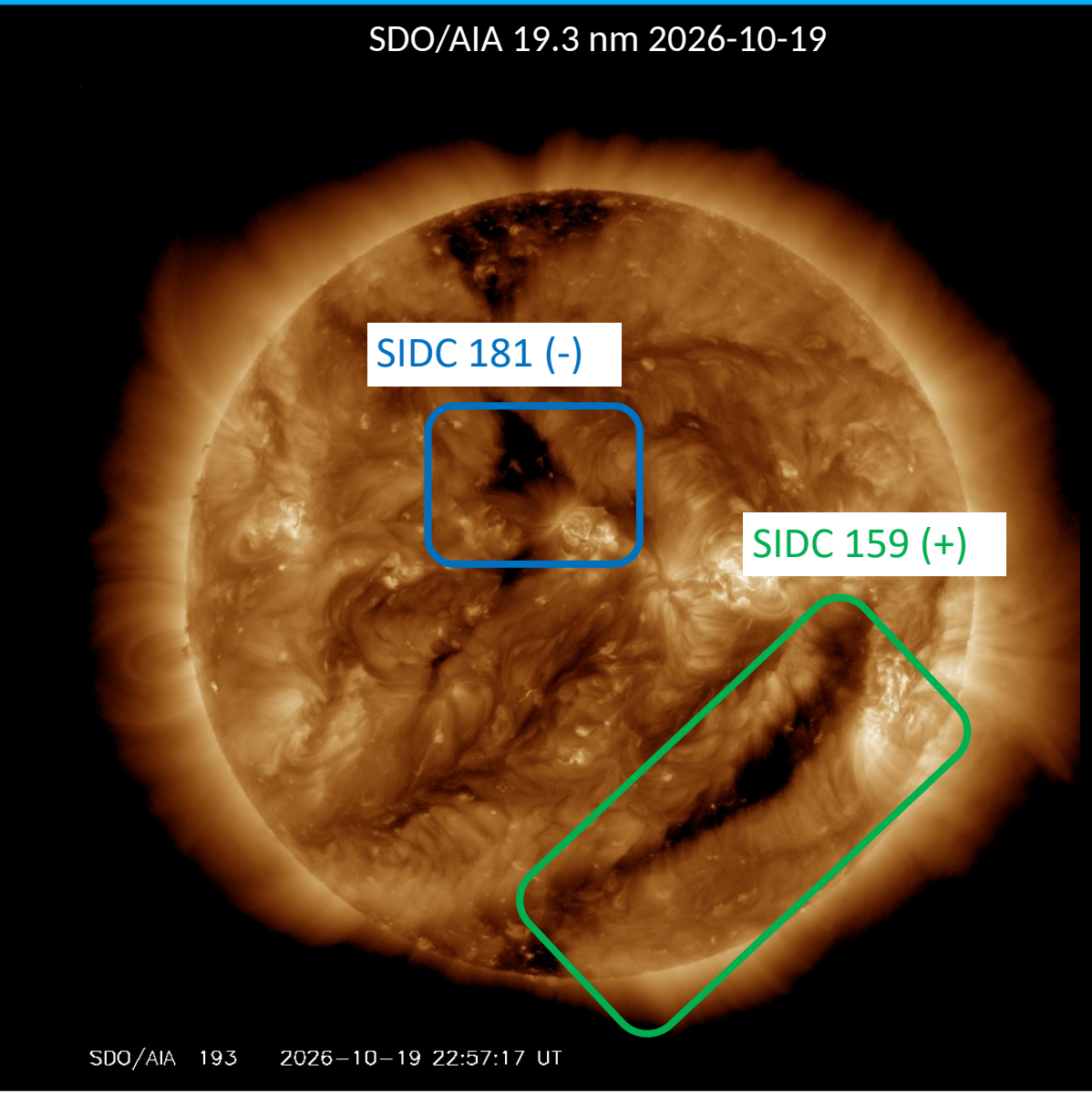


SDO/HMI Magnetogram 2026-10-25

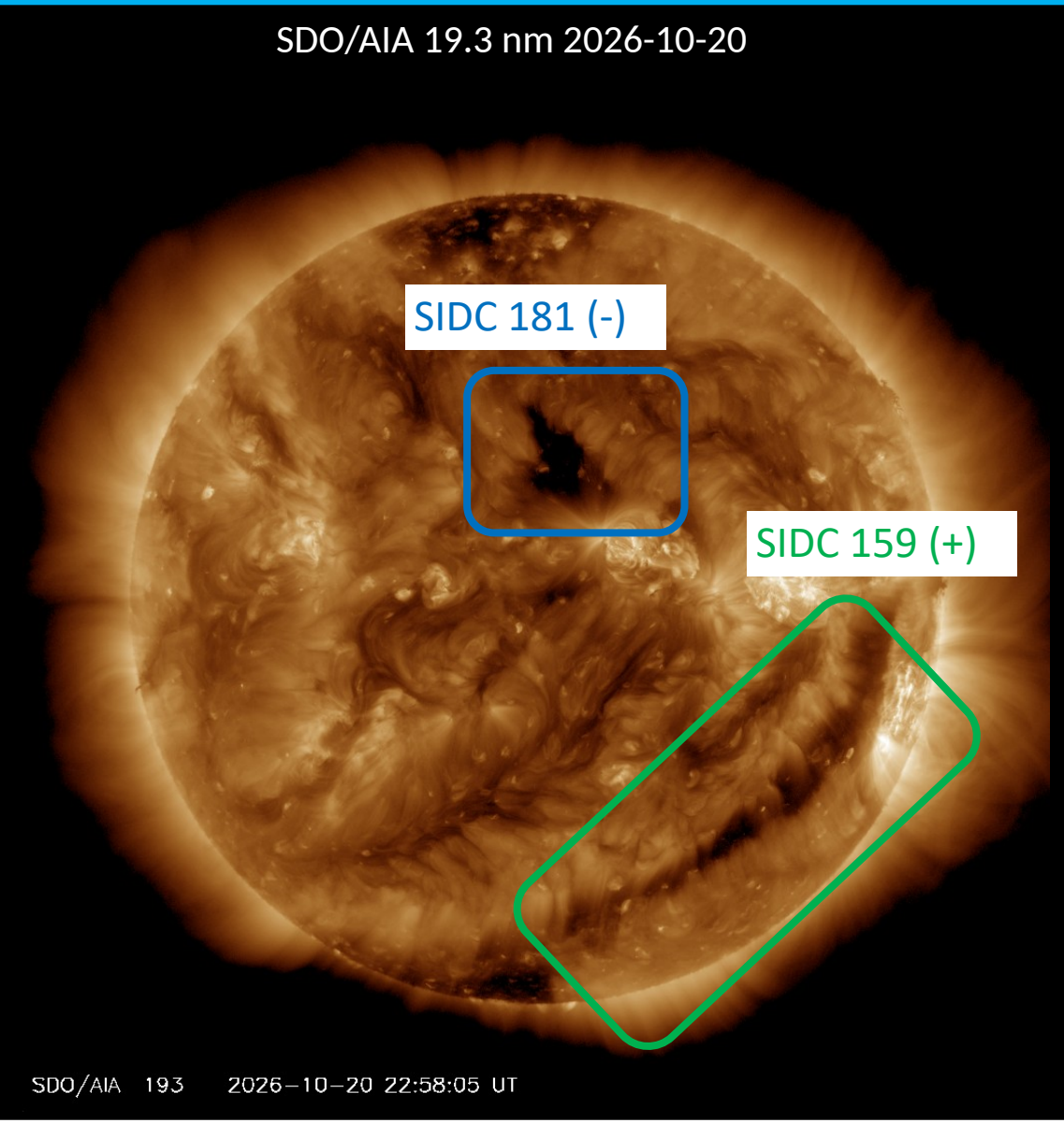


Coronal holes

SDO/AIA 19.3 nm 2026-10-19

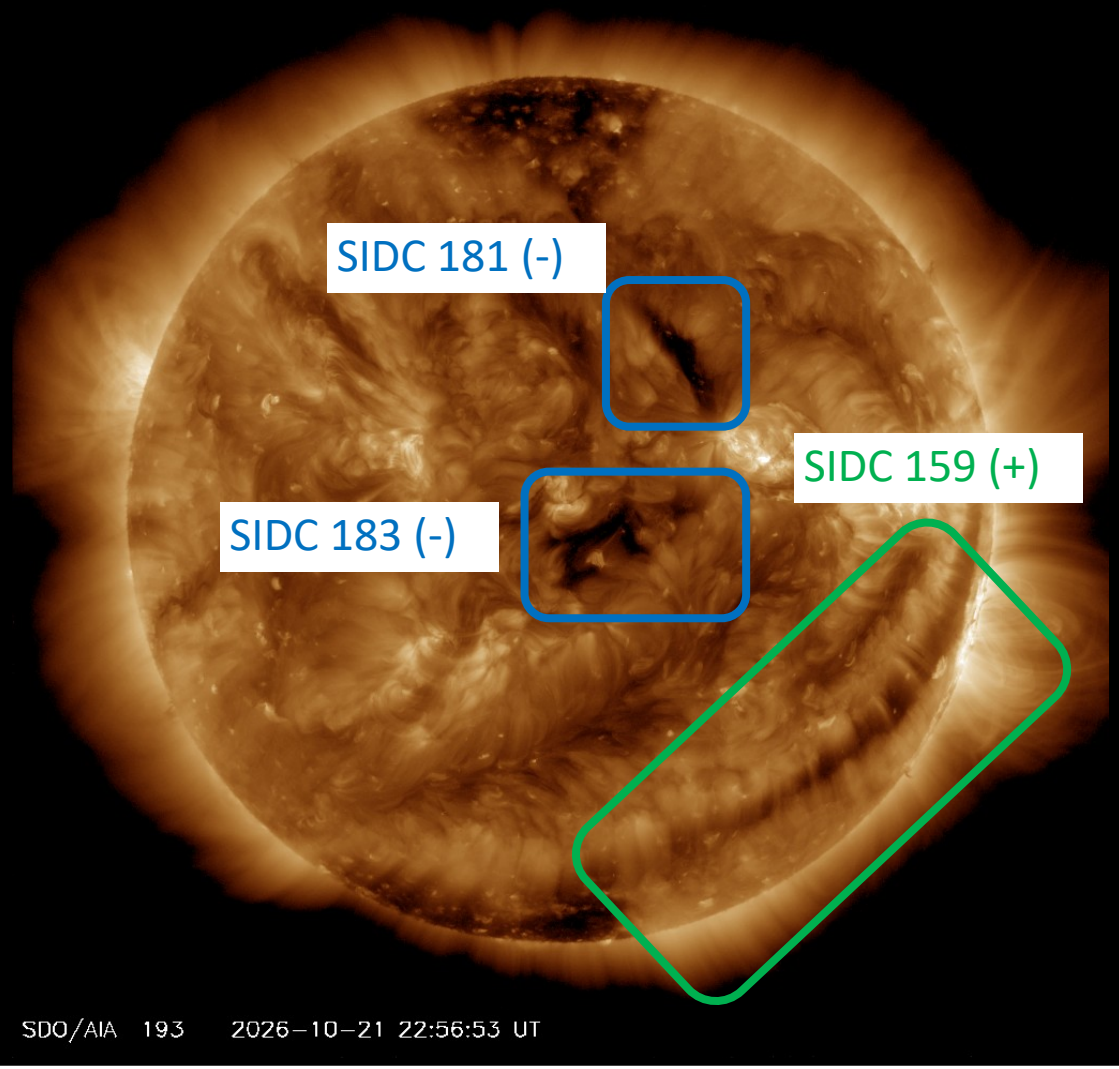


SDO/AIA 19.3 nm 2026-10-20

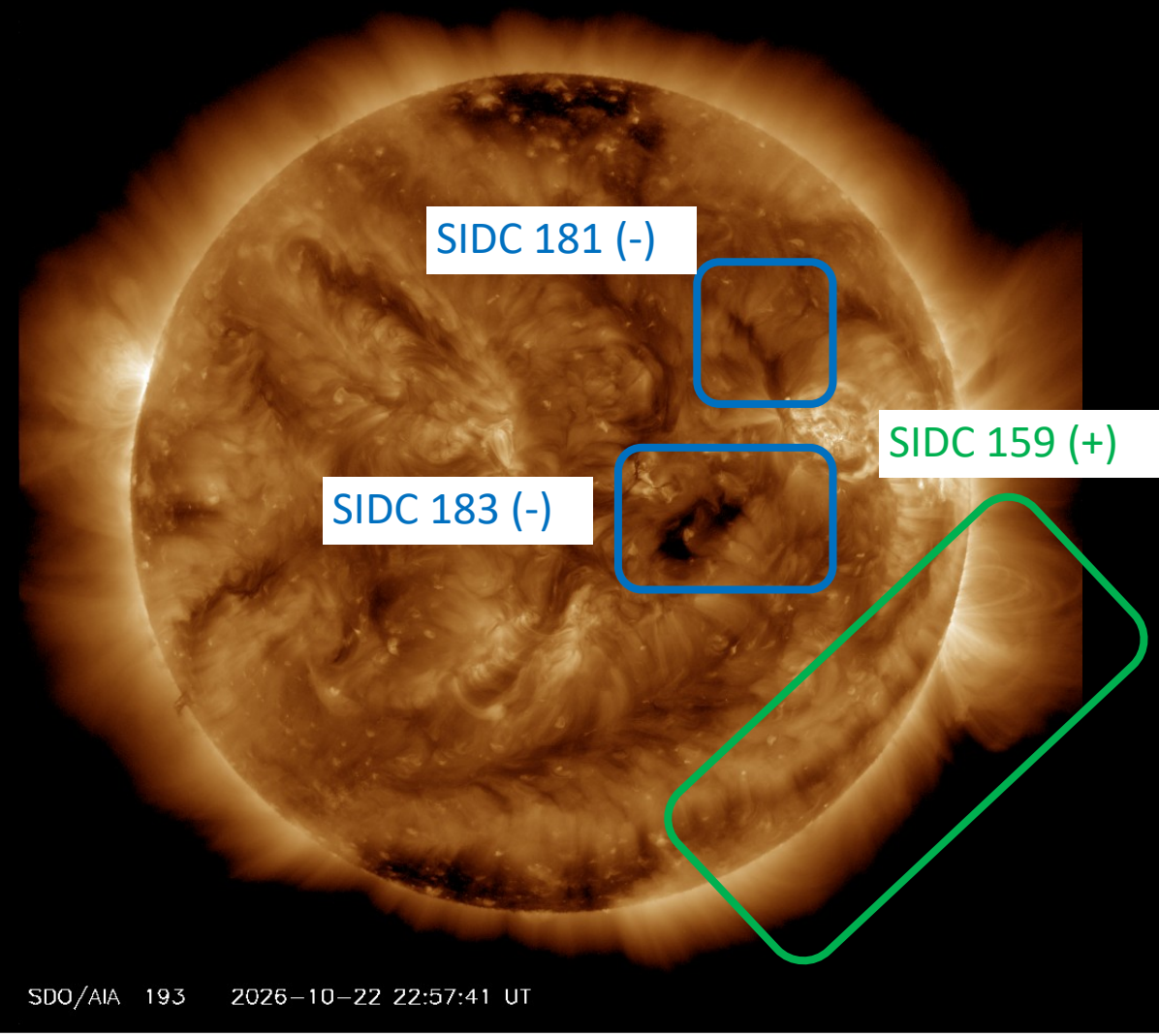


Coronal holes

SDO/AIA 19.3 nm 2026-10-21

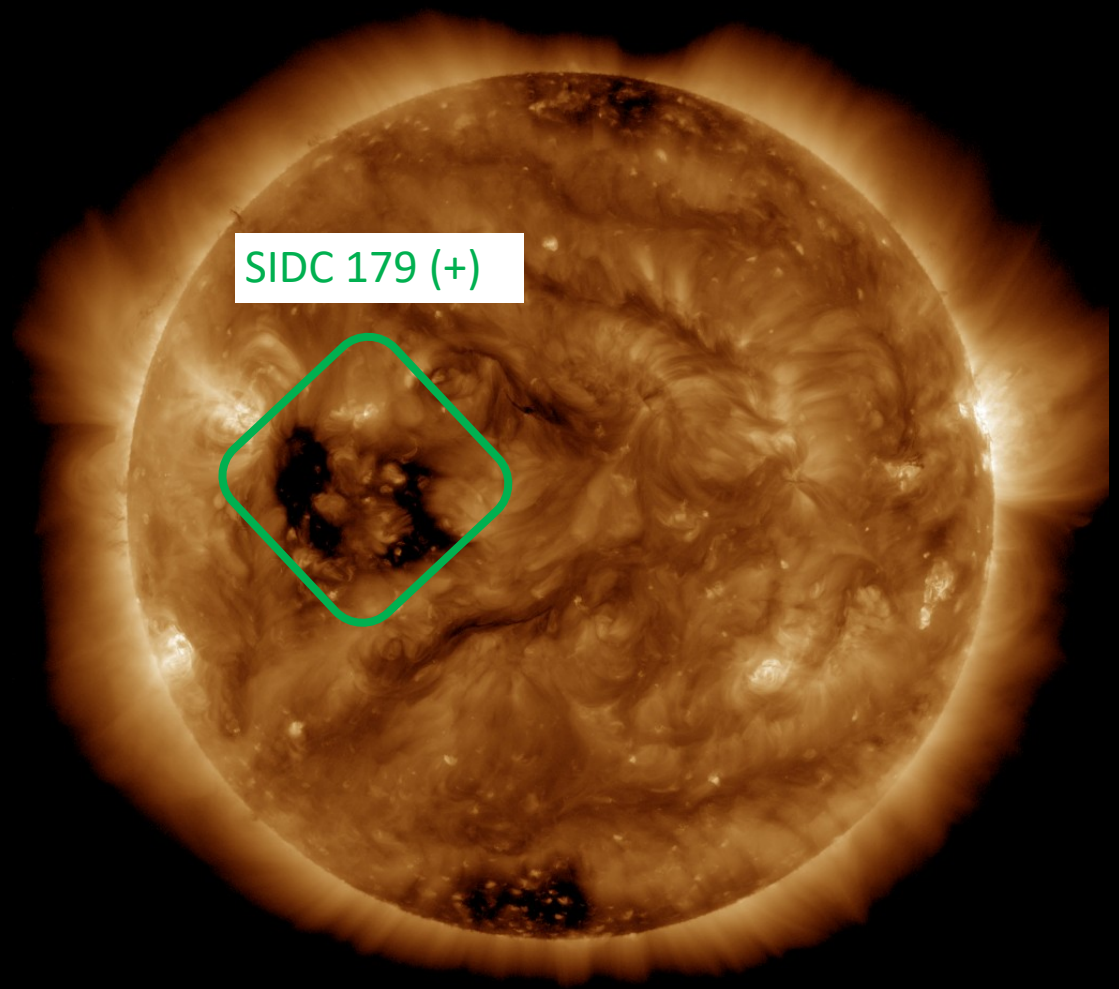


SDO/AIA 19.3 nm 2026-10-22



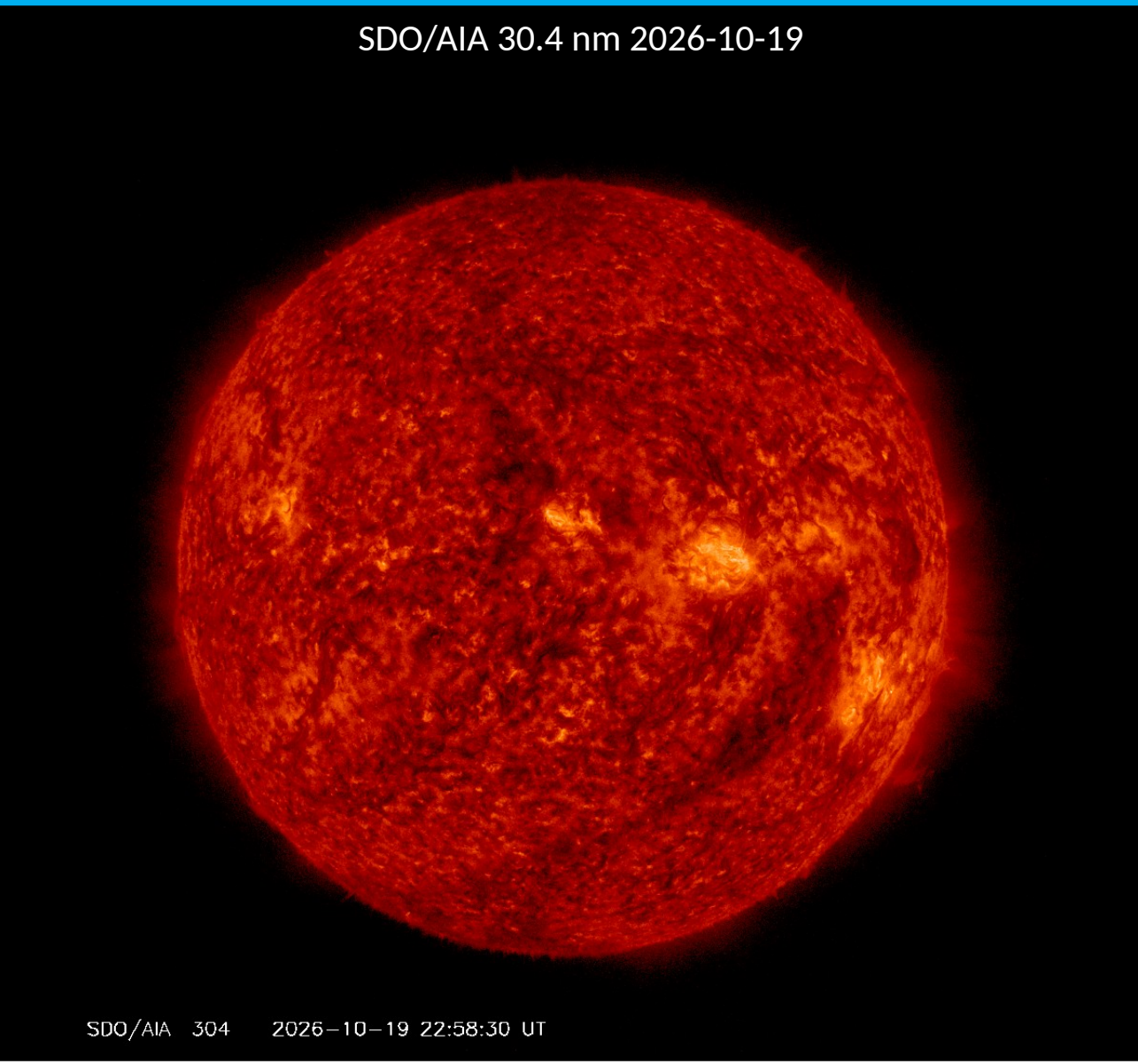
Coronal holes

SDO/AIA 19.3 nm 2026-10-25

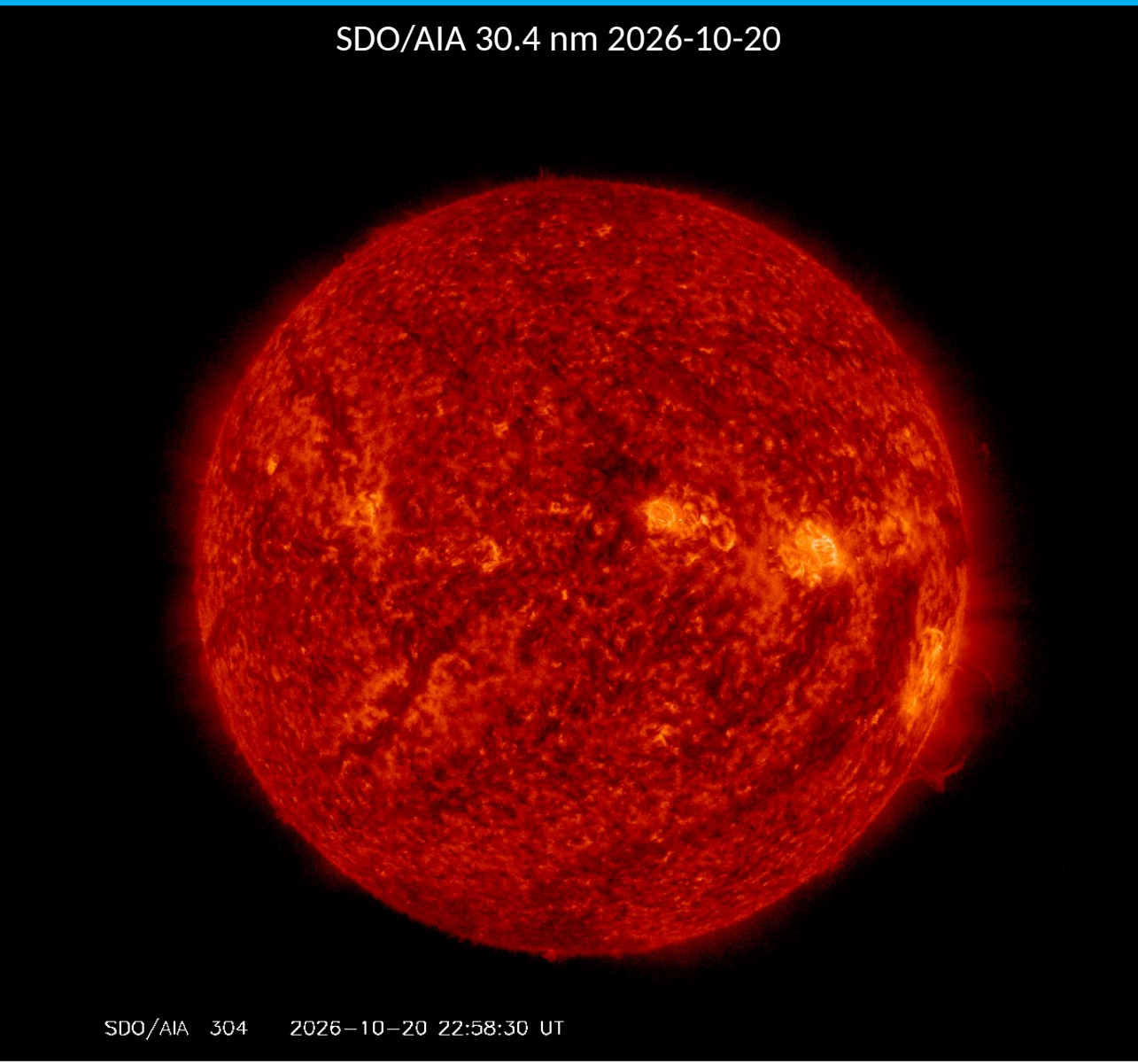


Filaments

SDO/AIA 30.4 nm 2026-10-19

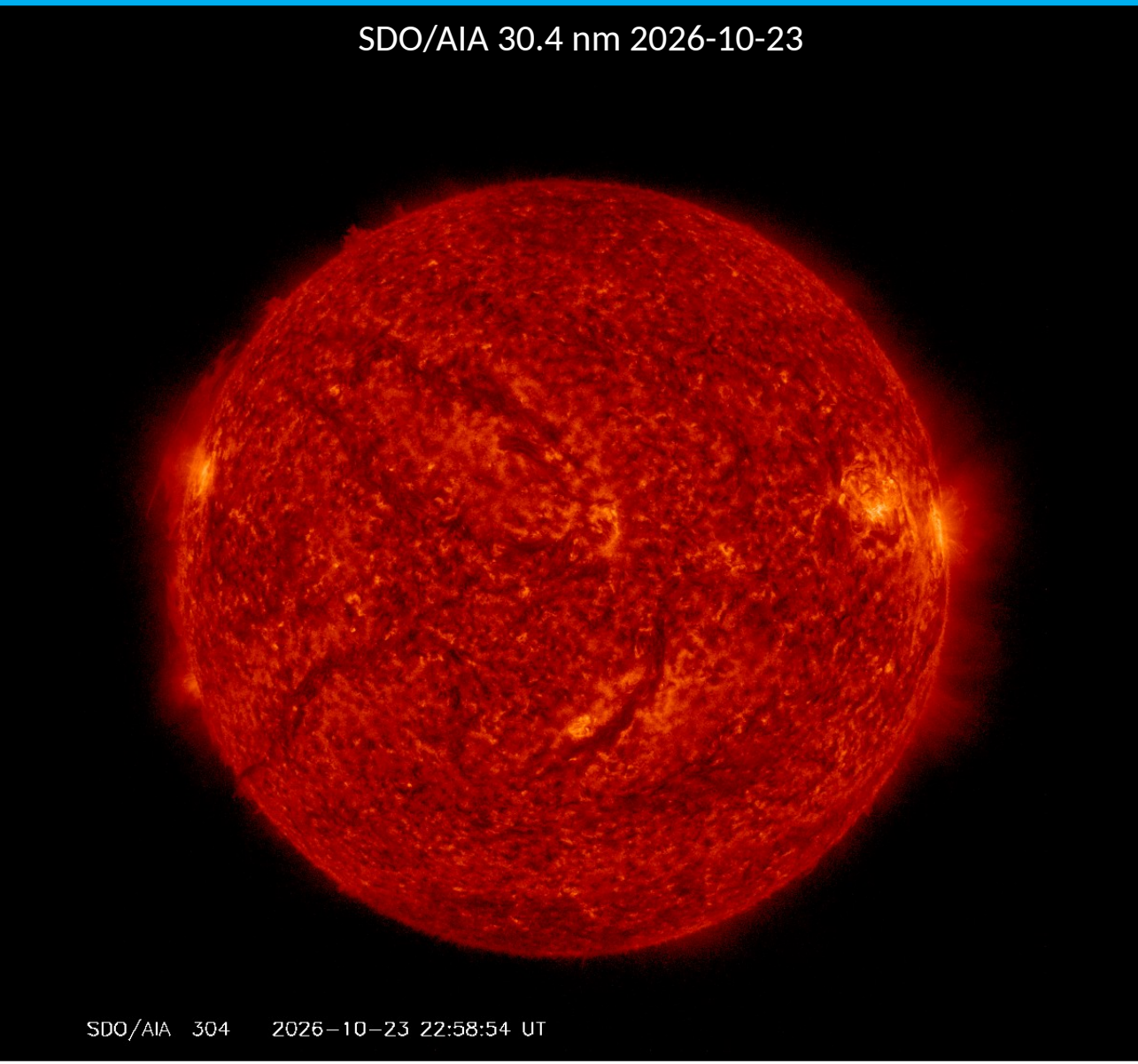


SDO/AIA 30.4 nm 2026-10-20

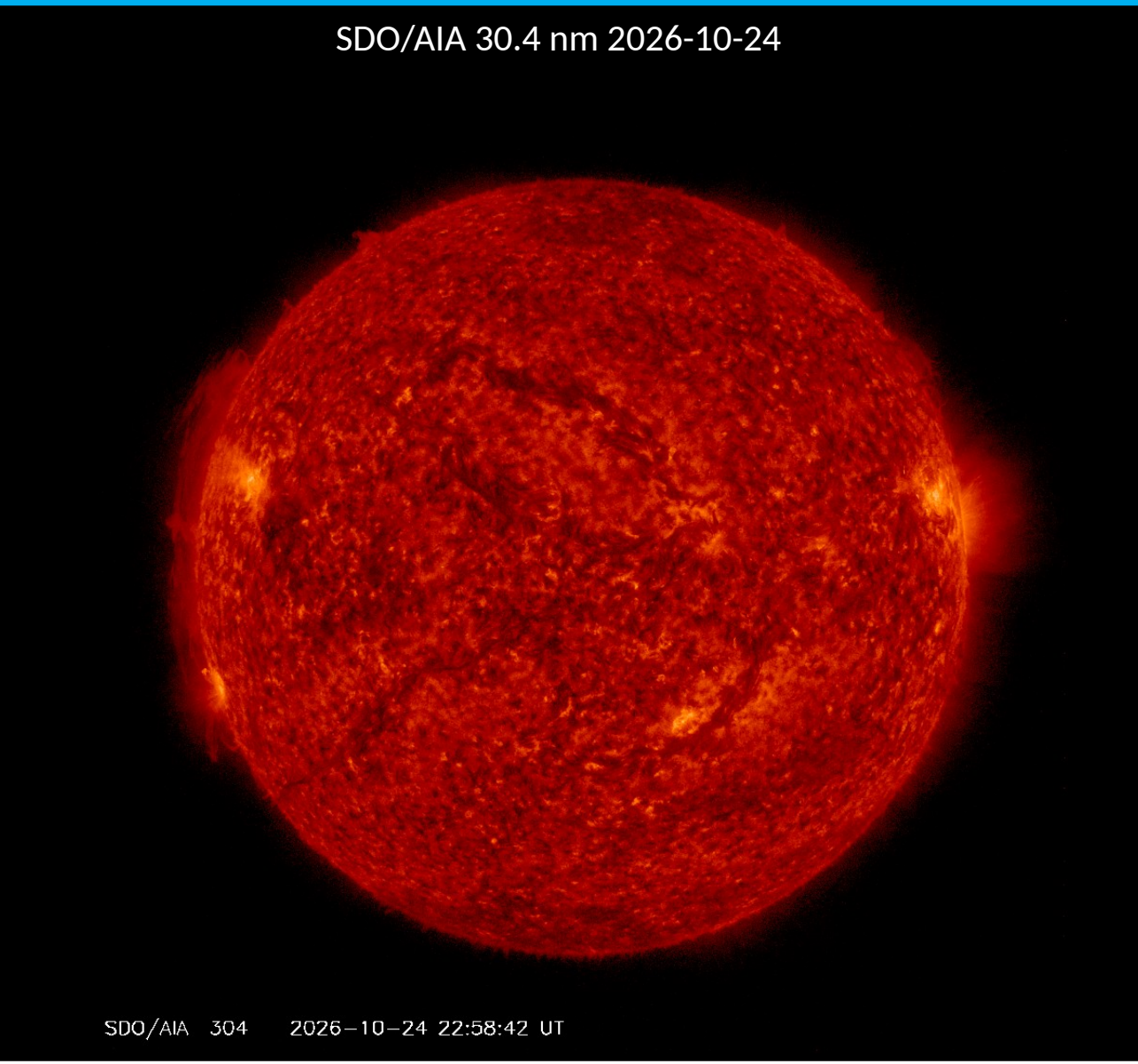


Filaments

SDO/AIA 30.4 nm 2026-10-23

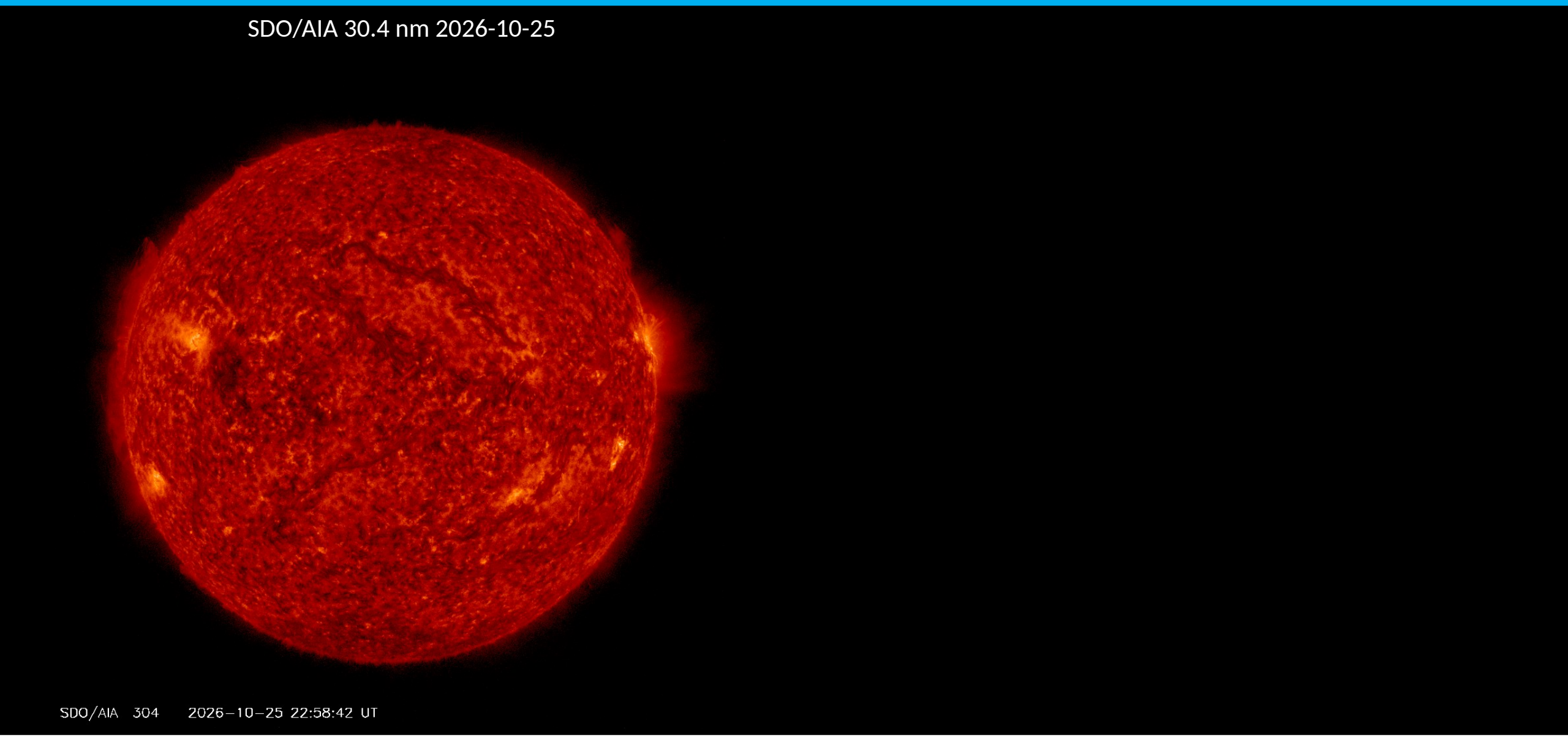


SDO/AIA 30.4 nm 2026-10-24



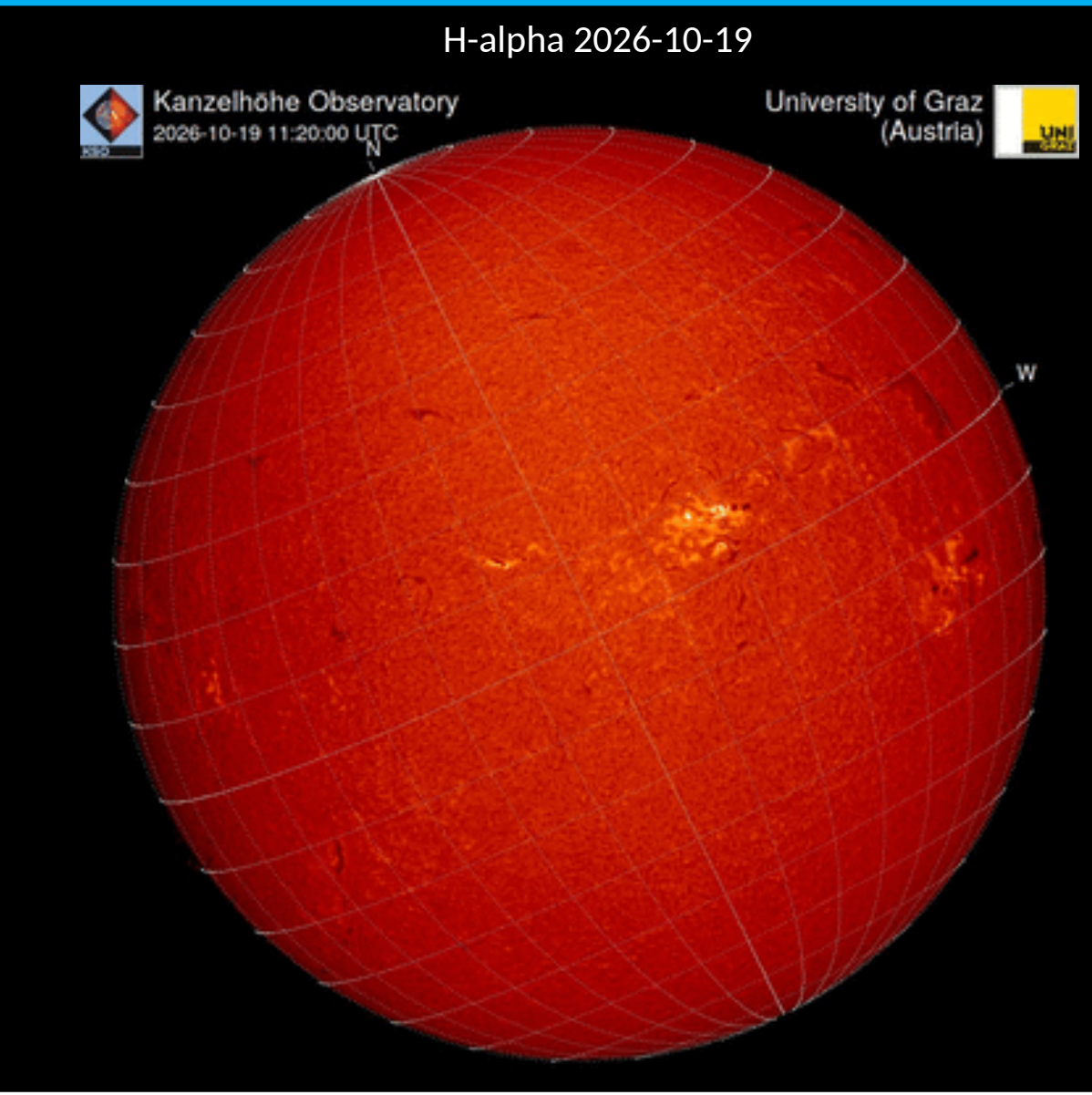
Filaments

SDO/AIA 30.4 nm 2026-10-25

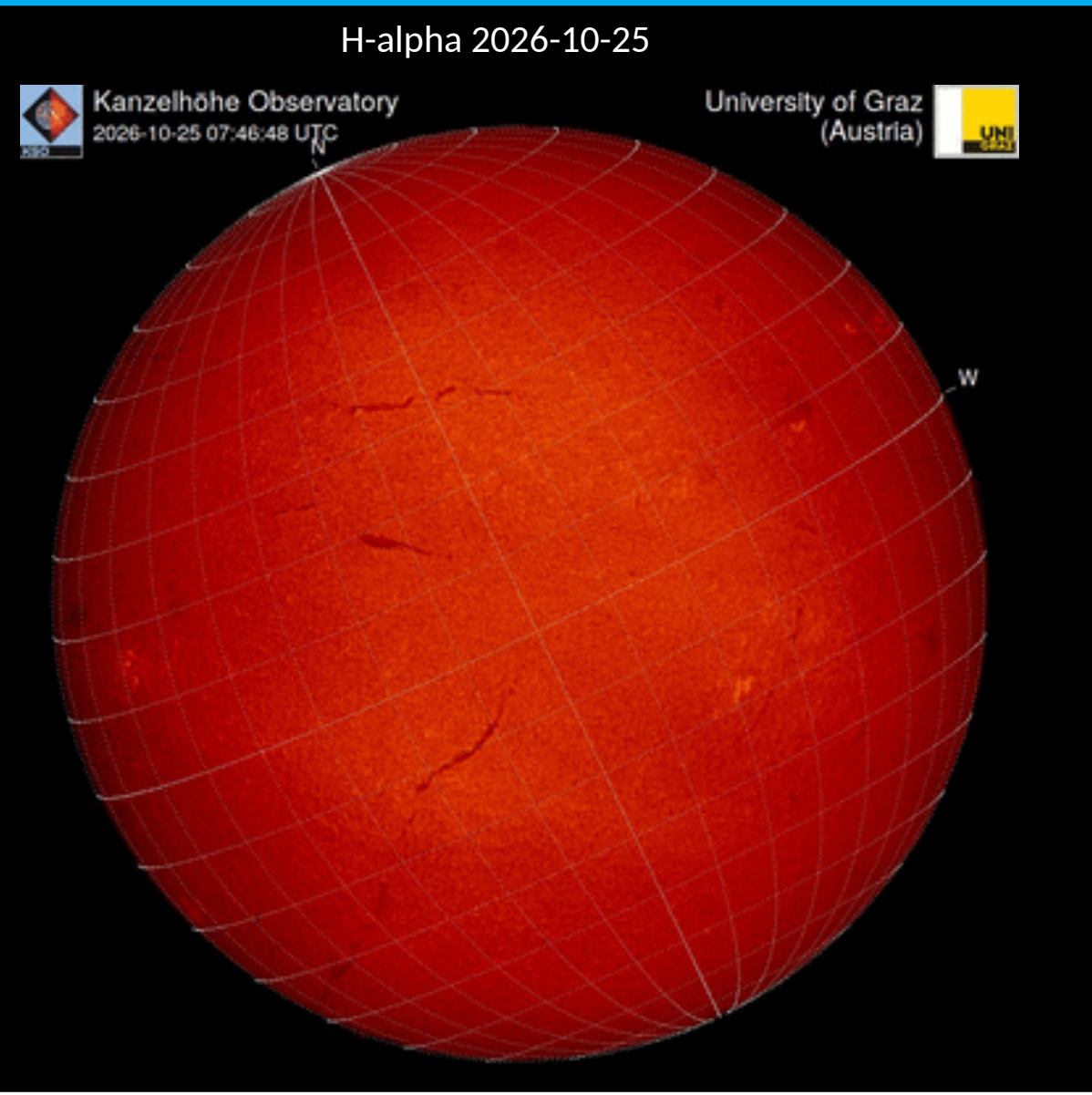


Filaments & Filament eruptions

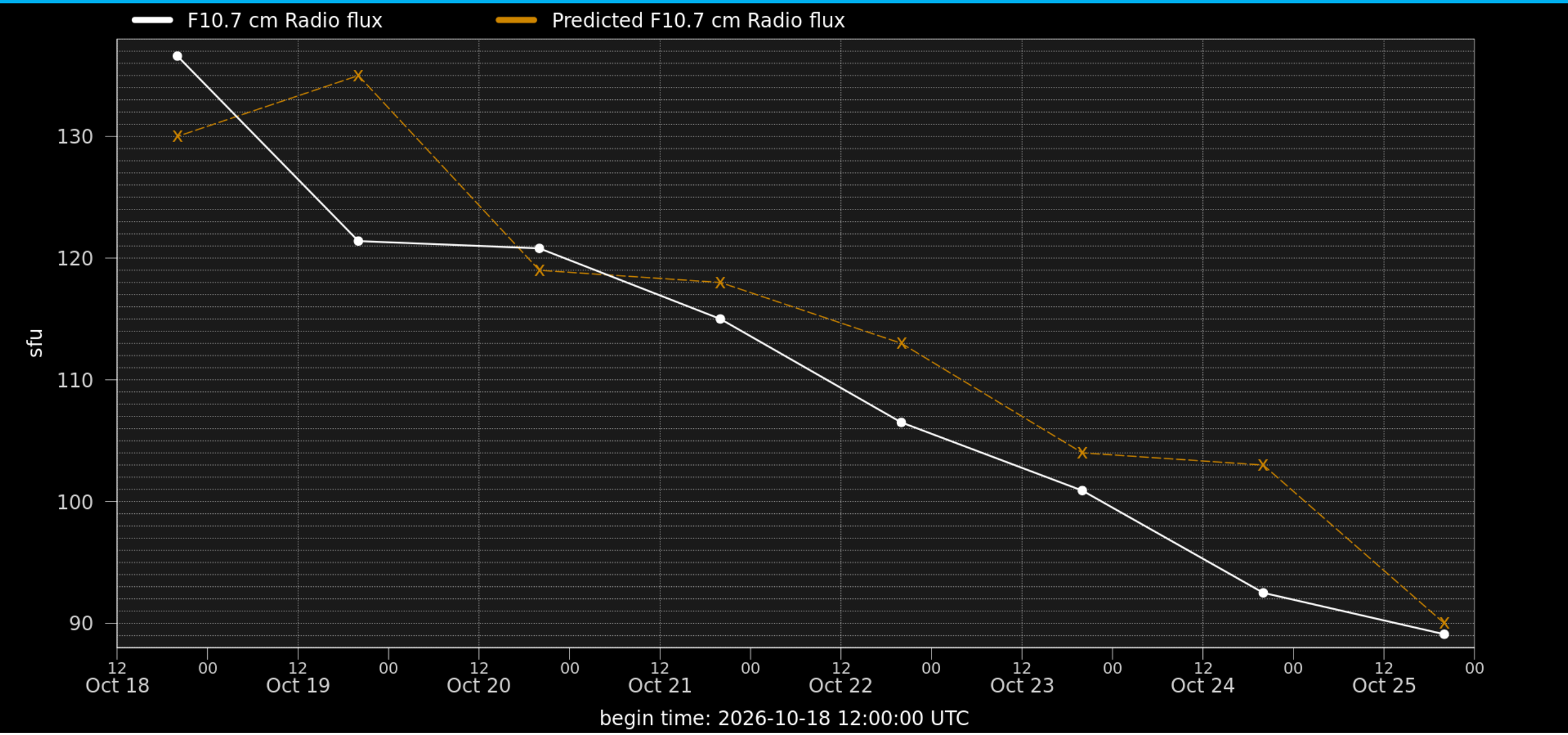
H-alpha 2026-10-19



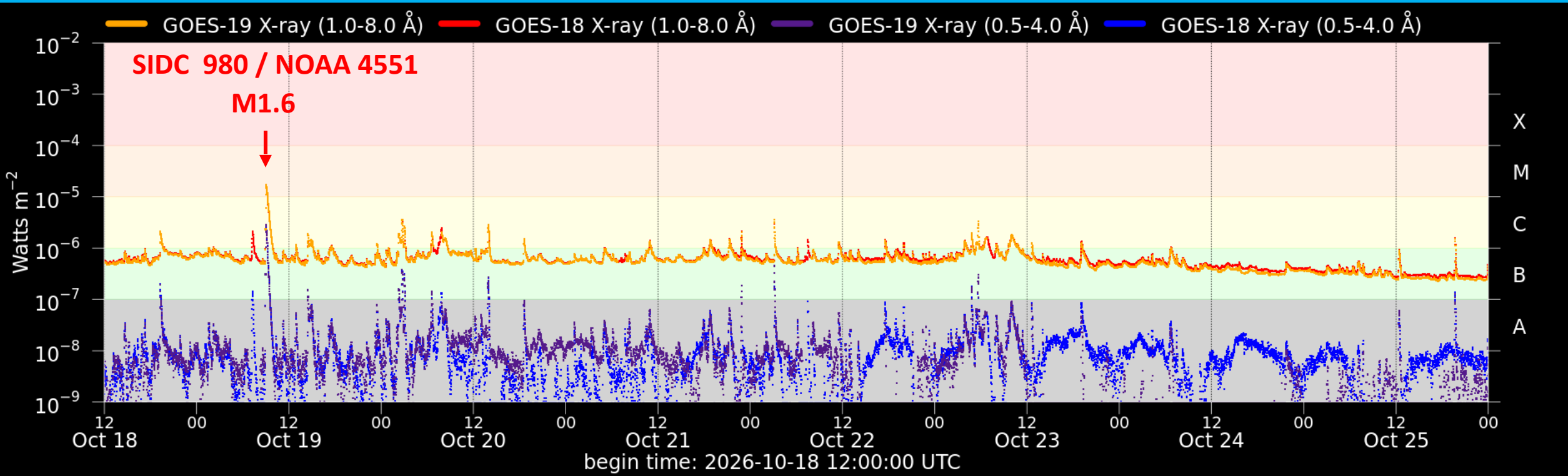
H-alpha 2026-10-25



Solar F10.7cm radio flux



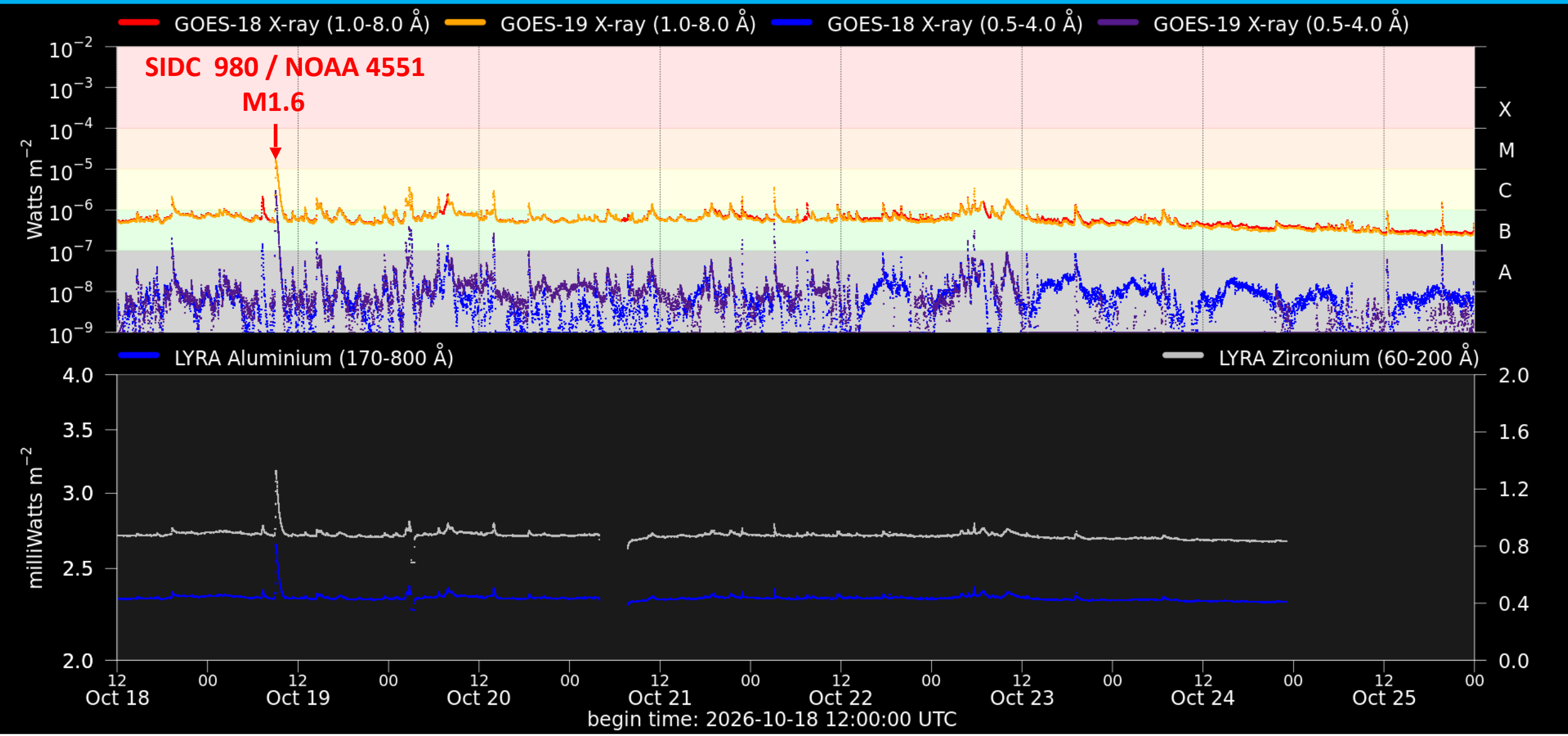
Flaring activity



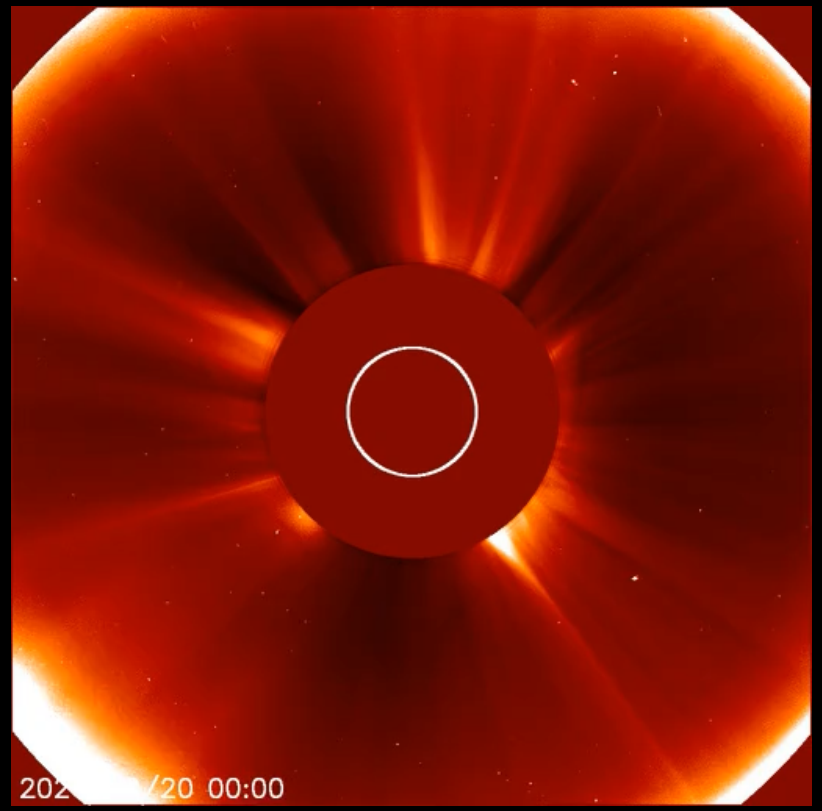
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

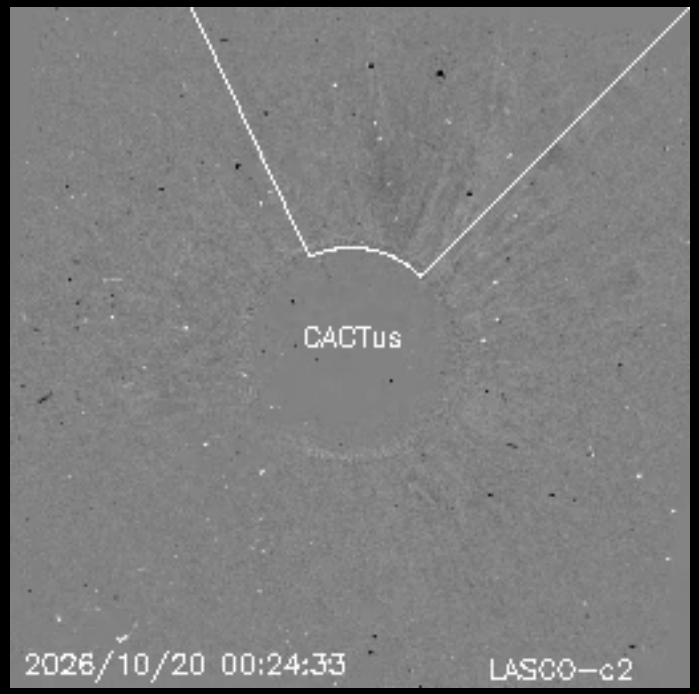
Issue date	2026-10-18	2026-10-19	2026-10-20	2026-10-21	2026-10-22	2026-10-23	2026-10-24	2026-10-25
Probability (%)	99|78|10	95|42|02	97|49|01	97|50|01	97|57|05	90|35|01	93|37|01	64|20|01
Observed (#)	02|01|00	11|00|00	03|00|00	05|00|00	05|00|00	03|00|00	00|00|00	02|00|00

Solar X-Ray and UV flux

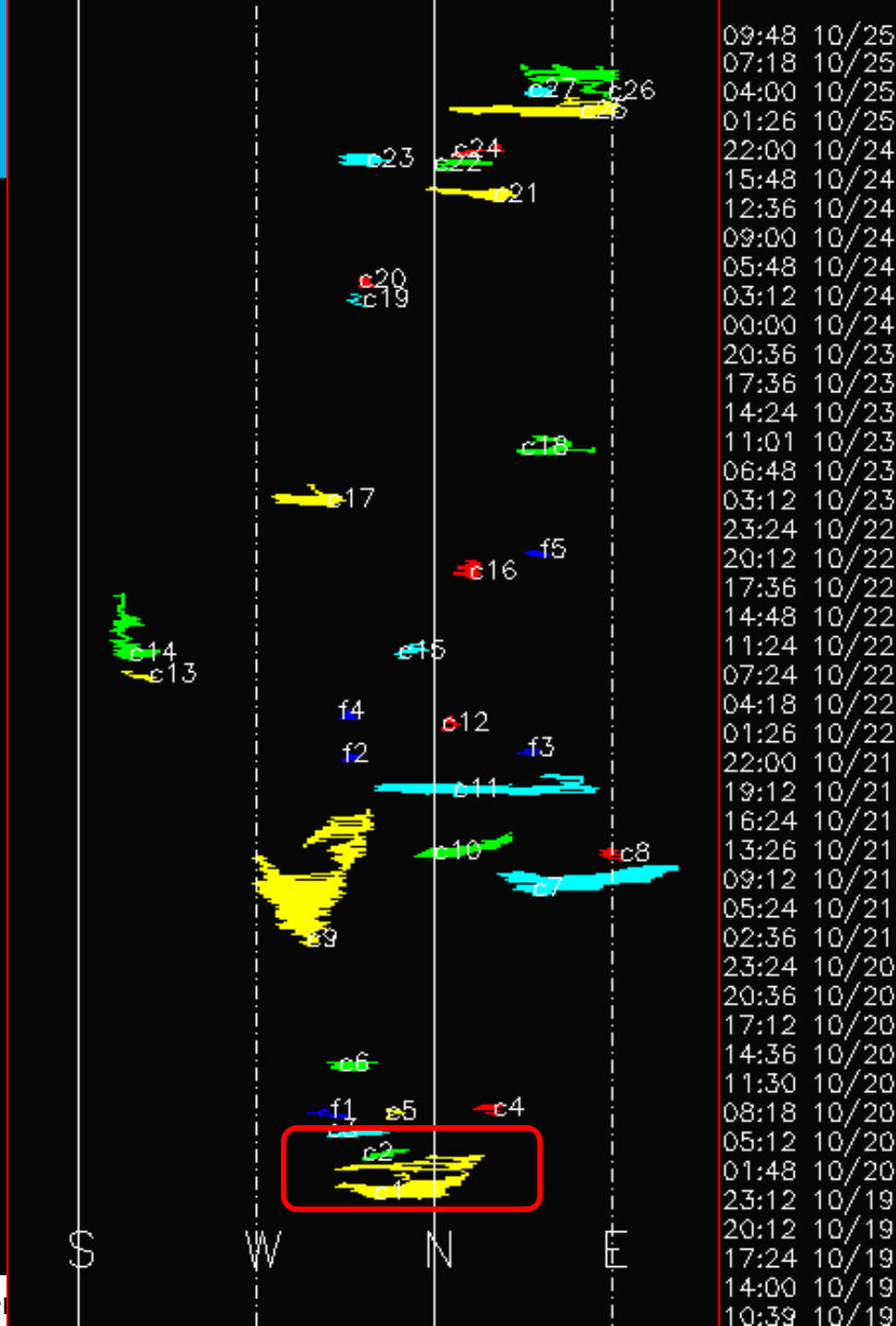


Coronal Mass Ejections

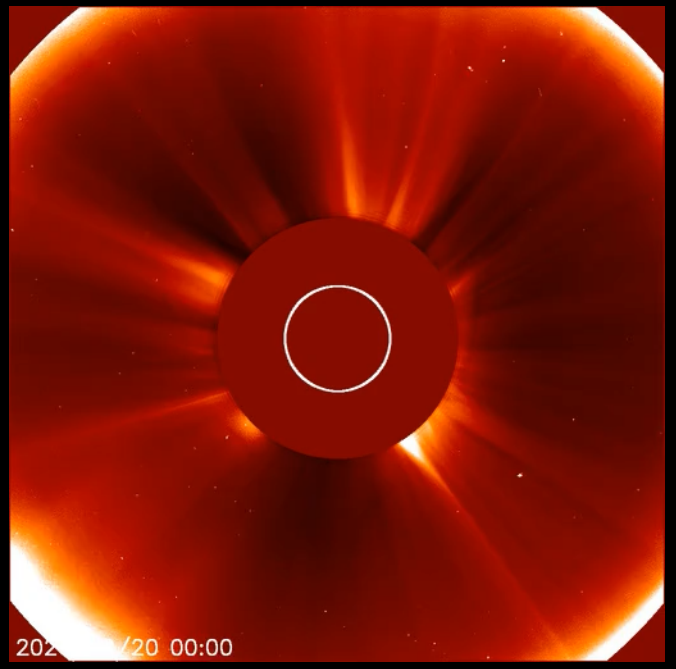


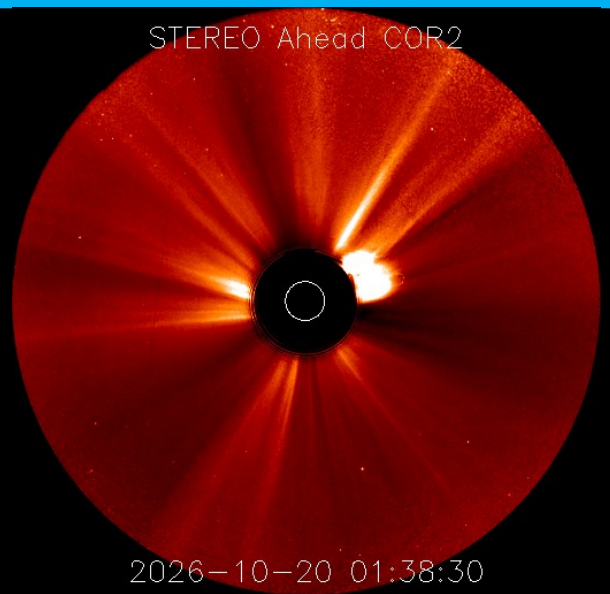


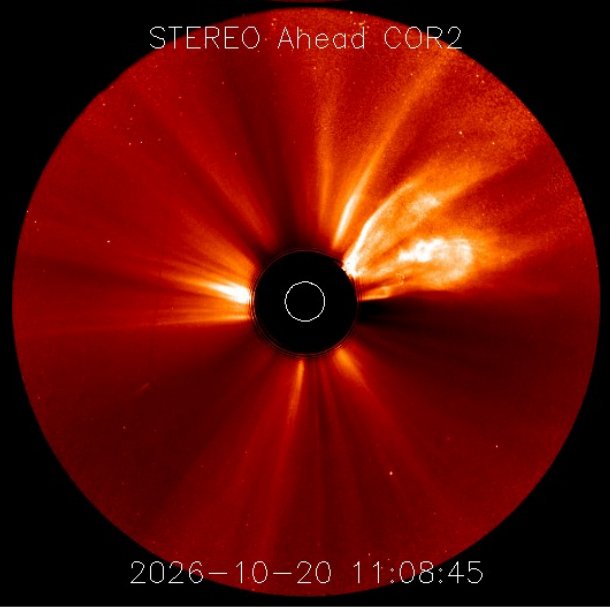
20-10-2026: Two Backsided CMEs



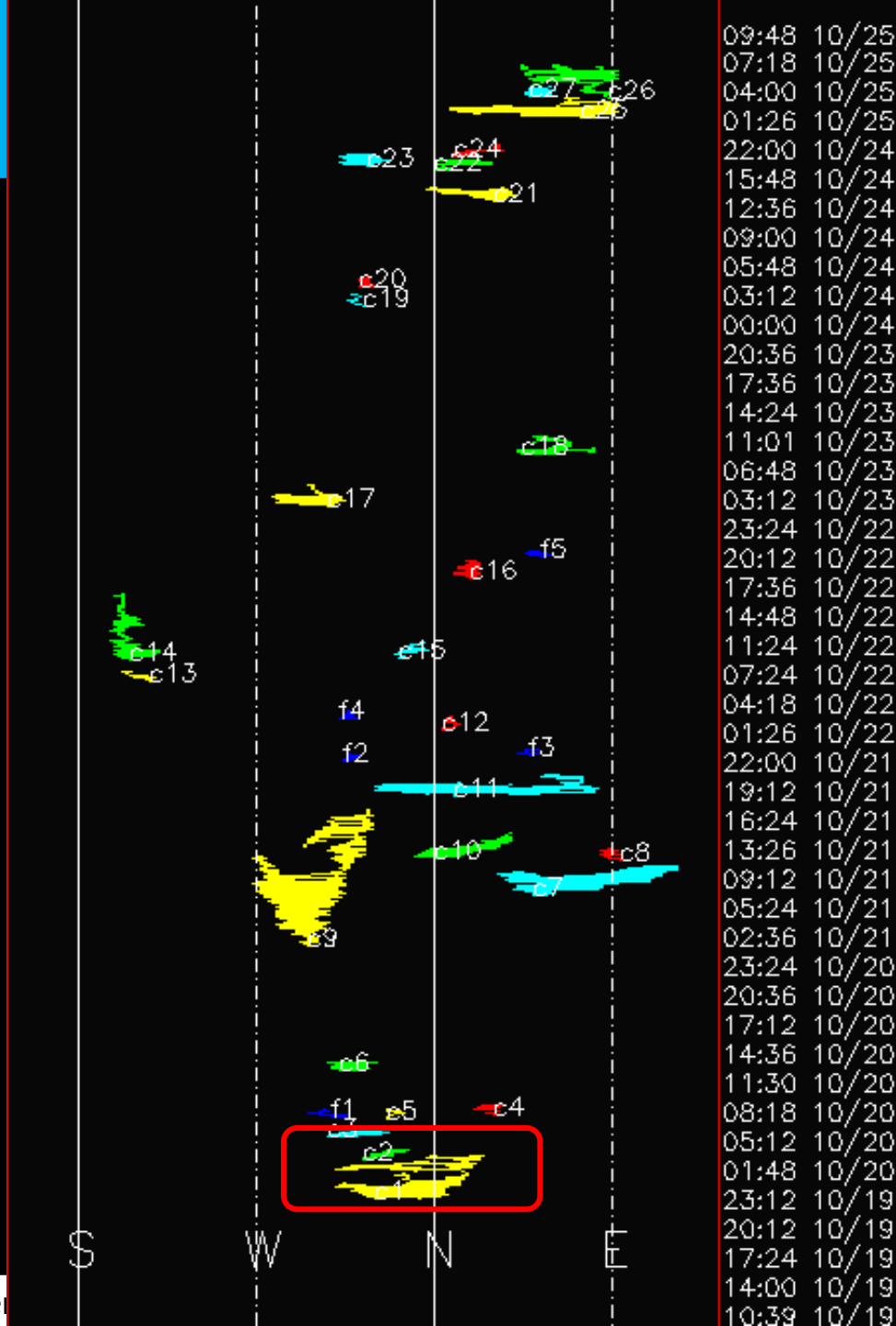
Coronal Mass Ejections



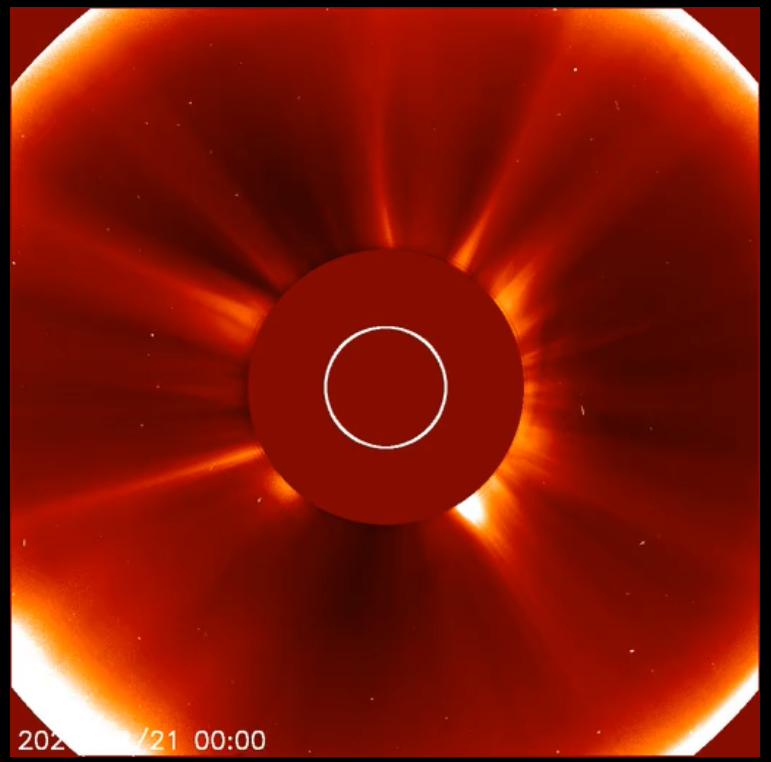


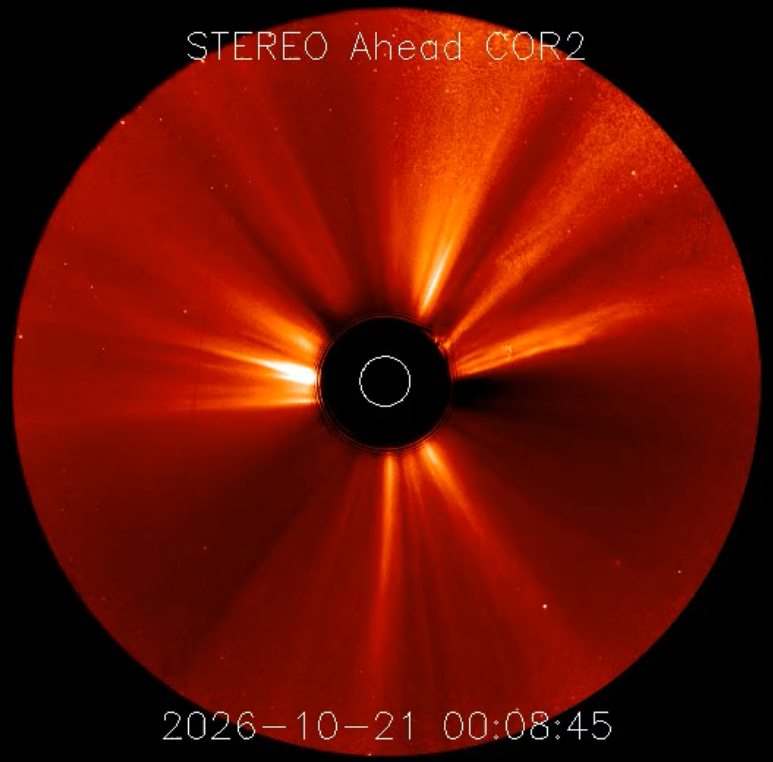


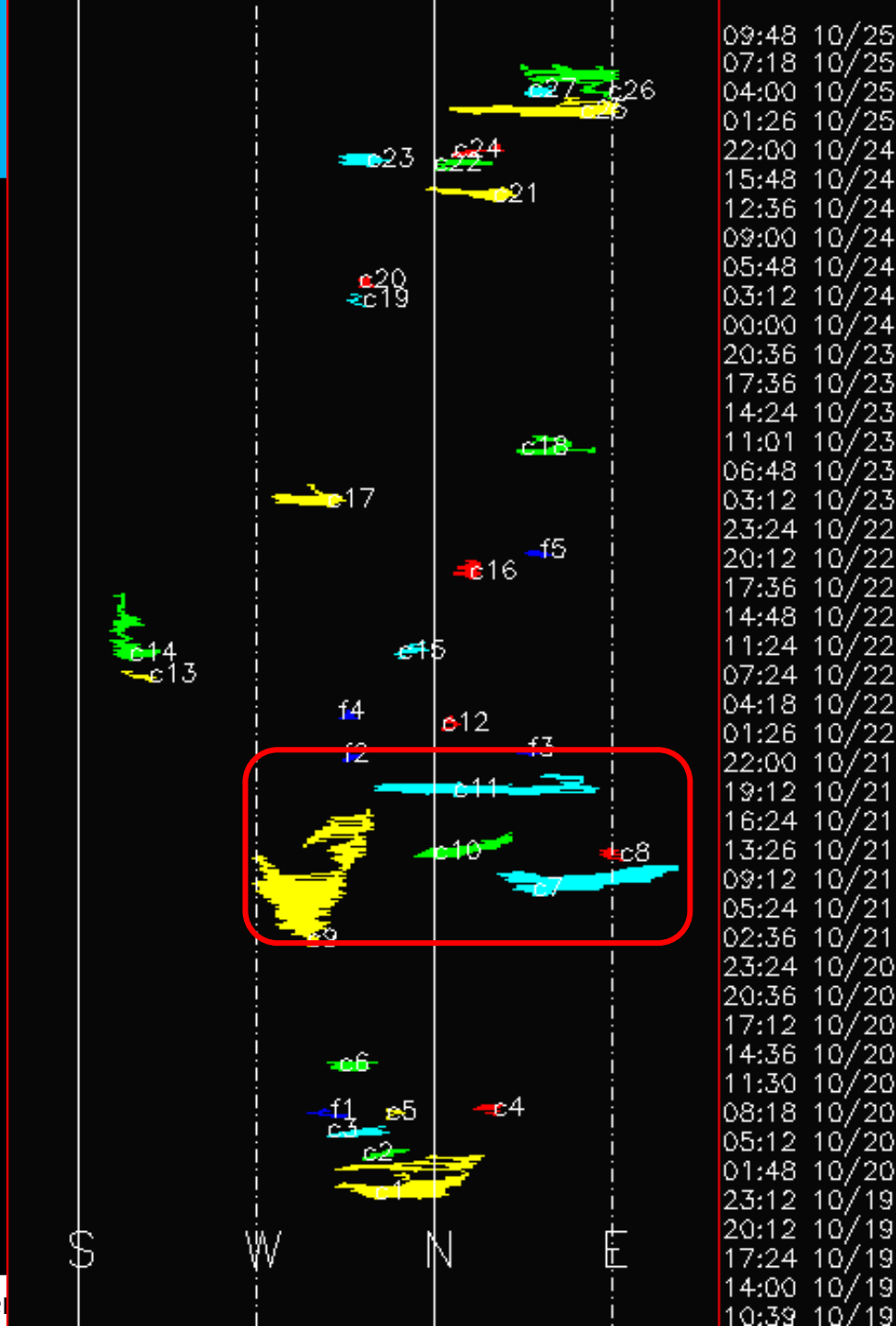
20-10-2026: Two Backsided CMEs



Coronal Mass Ejections

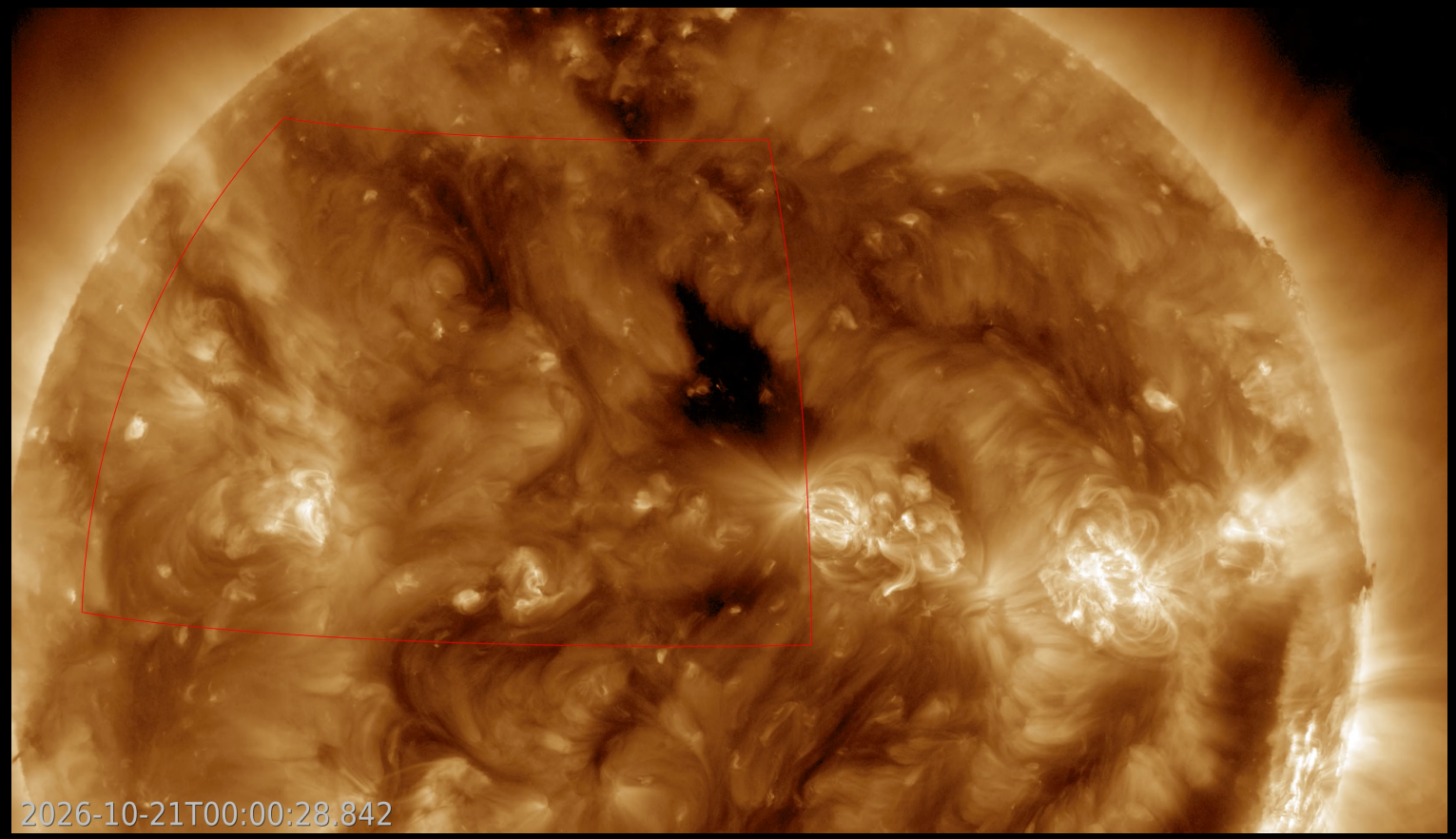




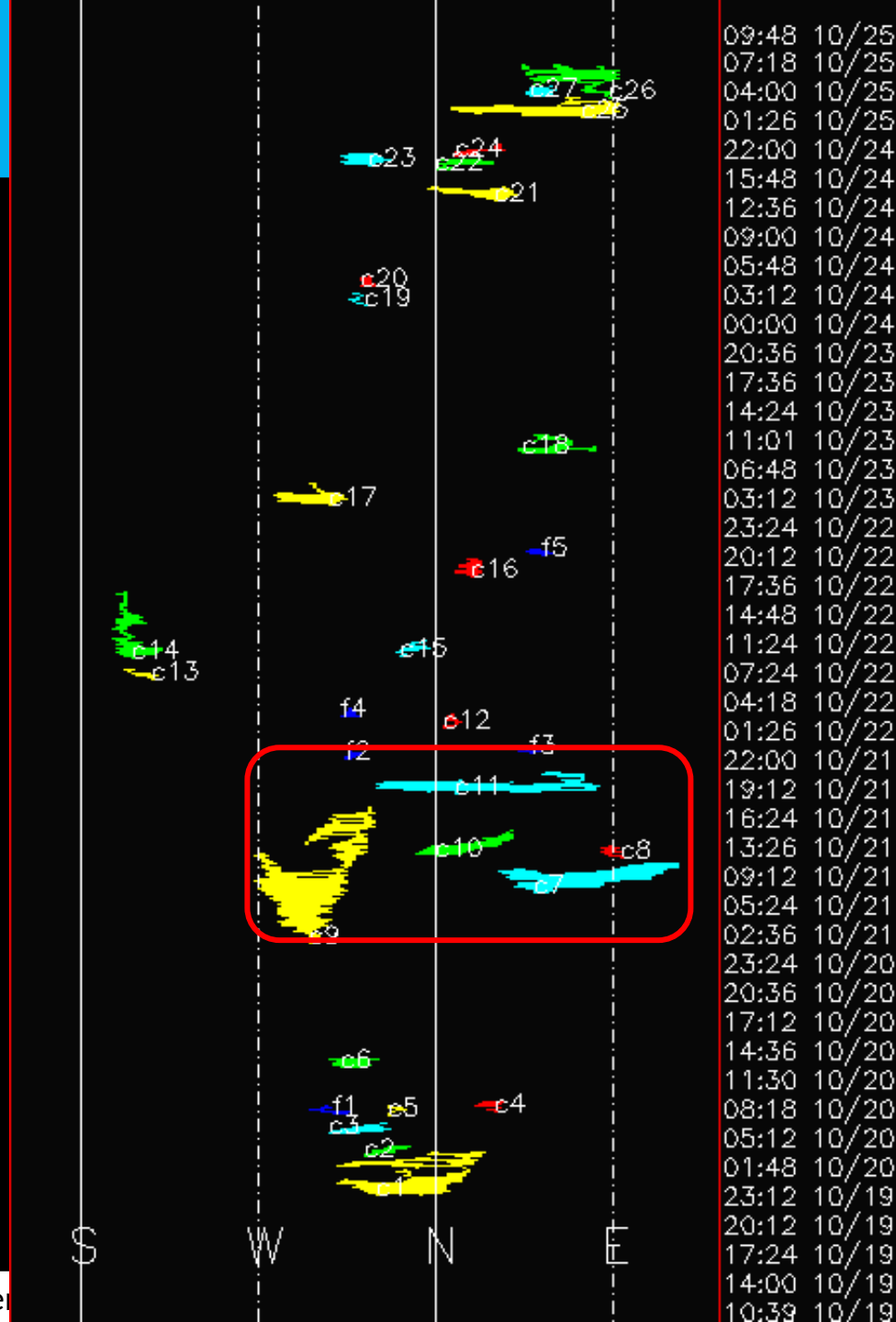


21-10-2026: Two Backsided CMEs, one near the central meridian

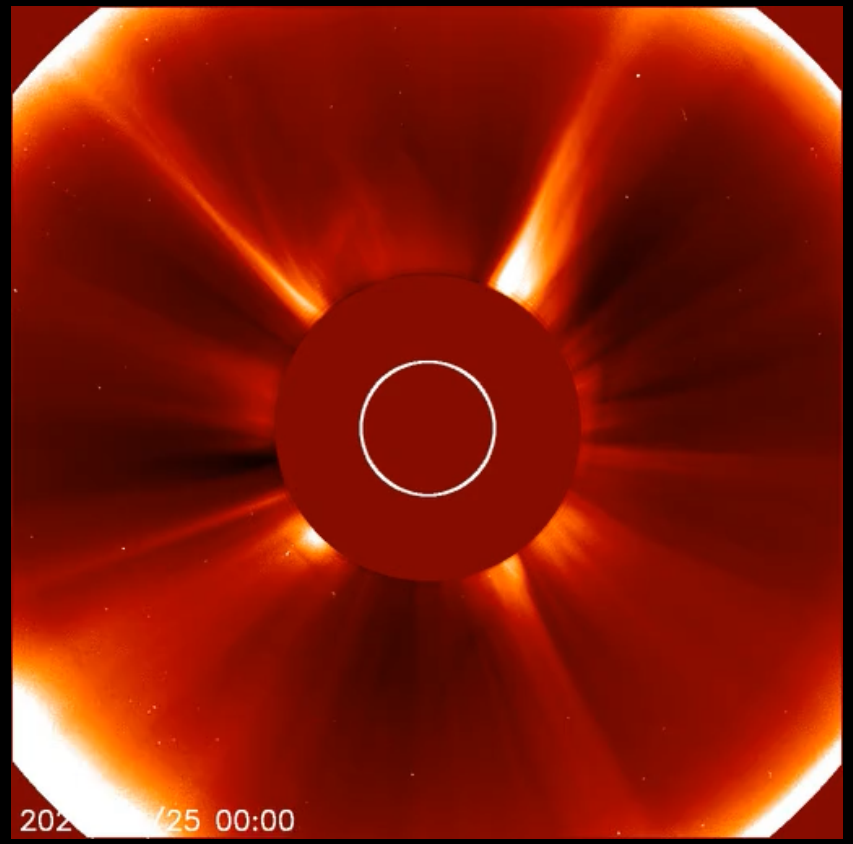
Coronal Mass Ejections



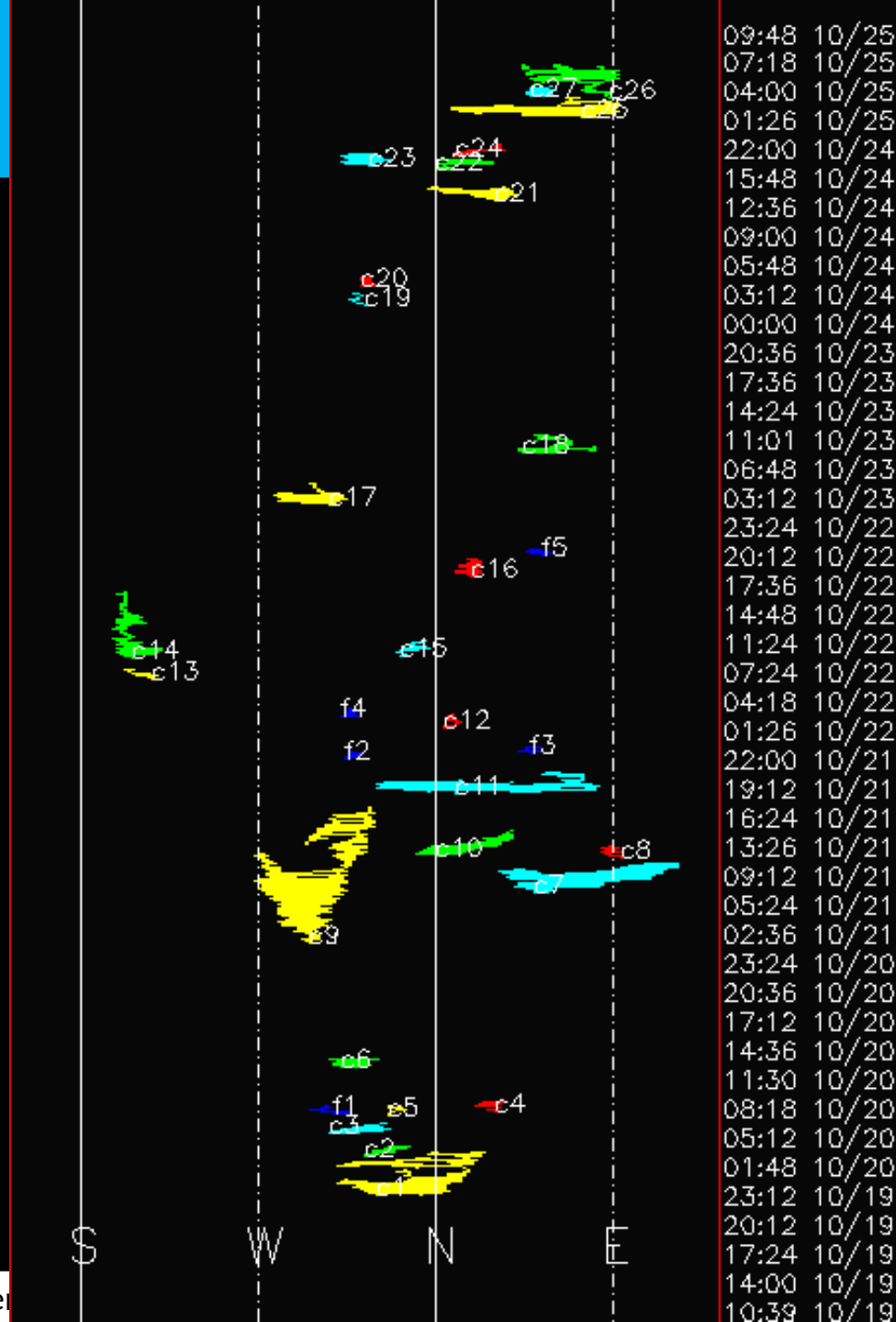
21-10-2026: Two Backsided CMEs, one near the central meridian



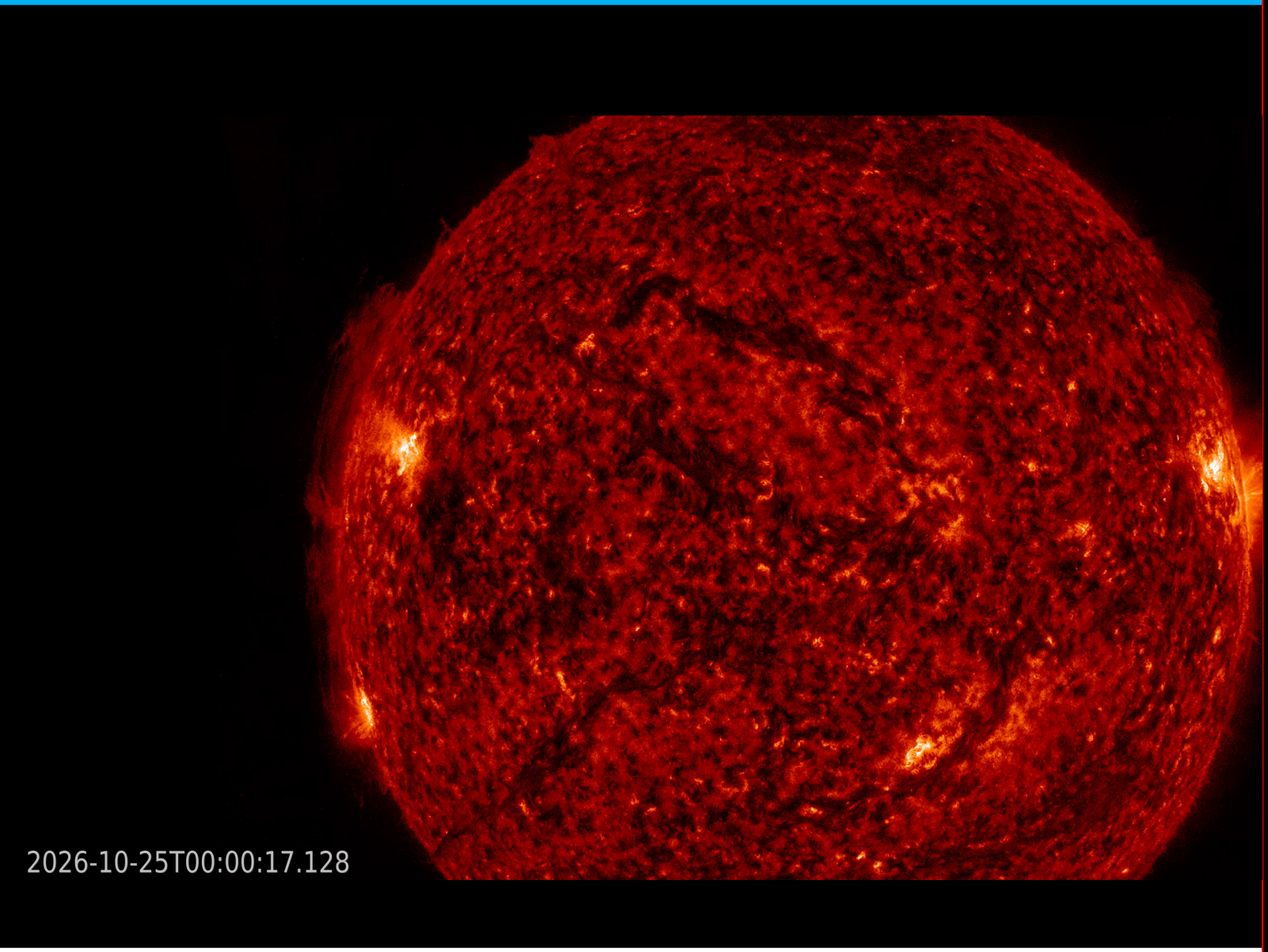
Coronal Mass Ejections

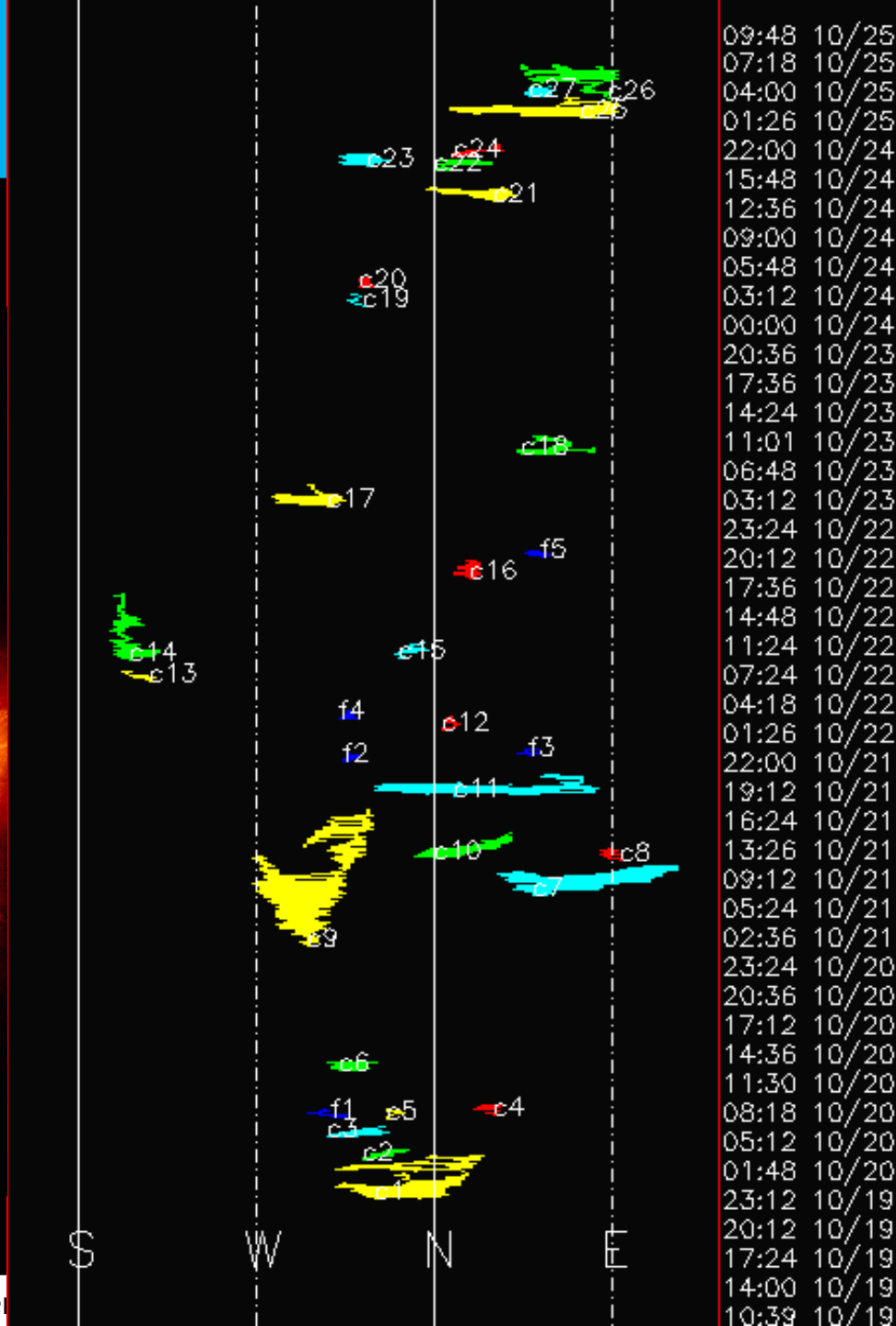


25-10-2026: Two CMEs, eruptions near east limb (not Earth directed)



Coronal Mass Ejections





Solar Wind and

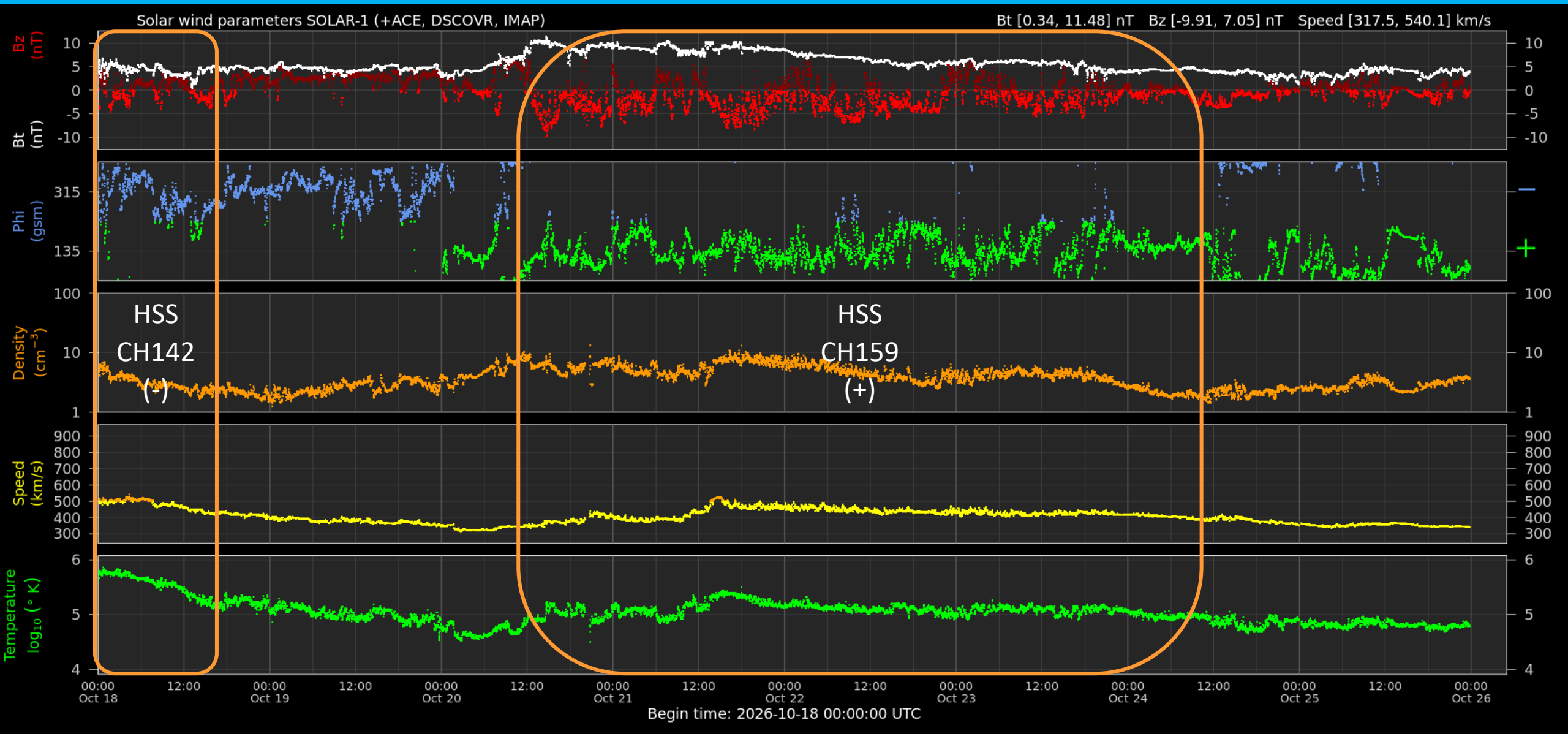
Geomagnetic Activity



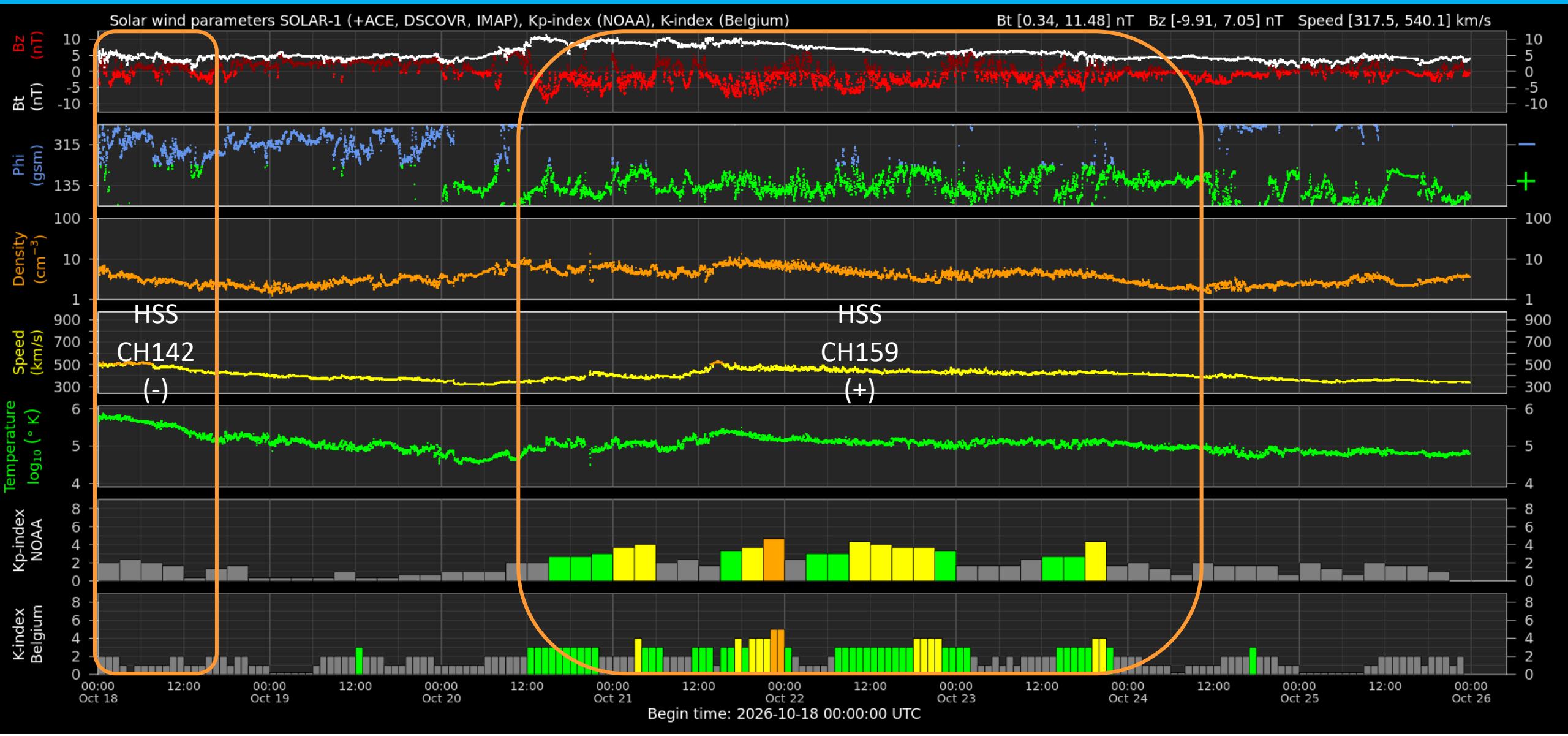
Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



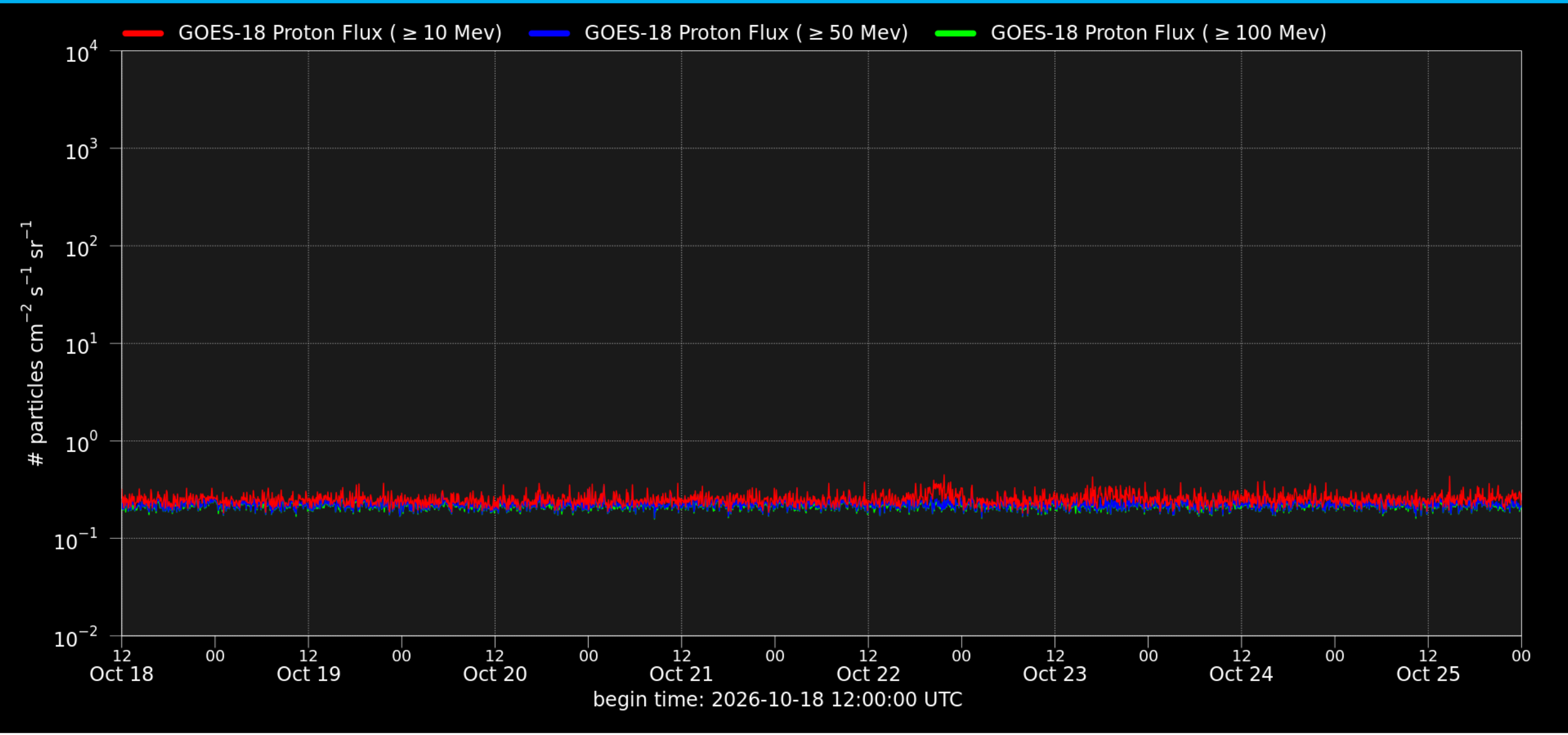
Energetic Particles



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

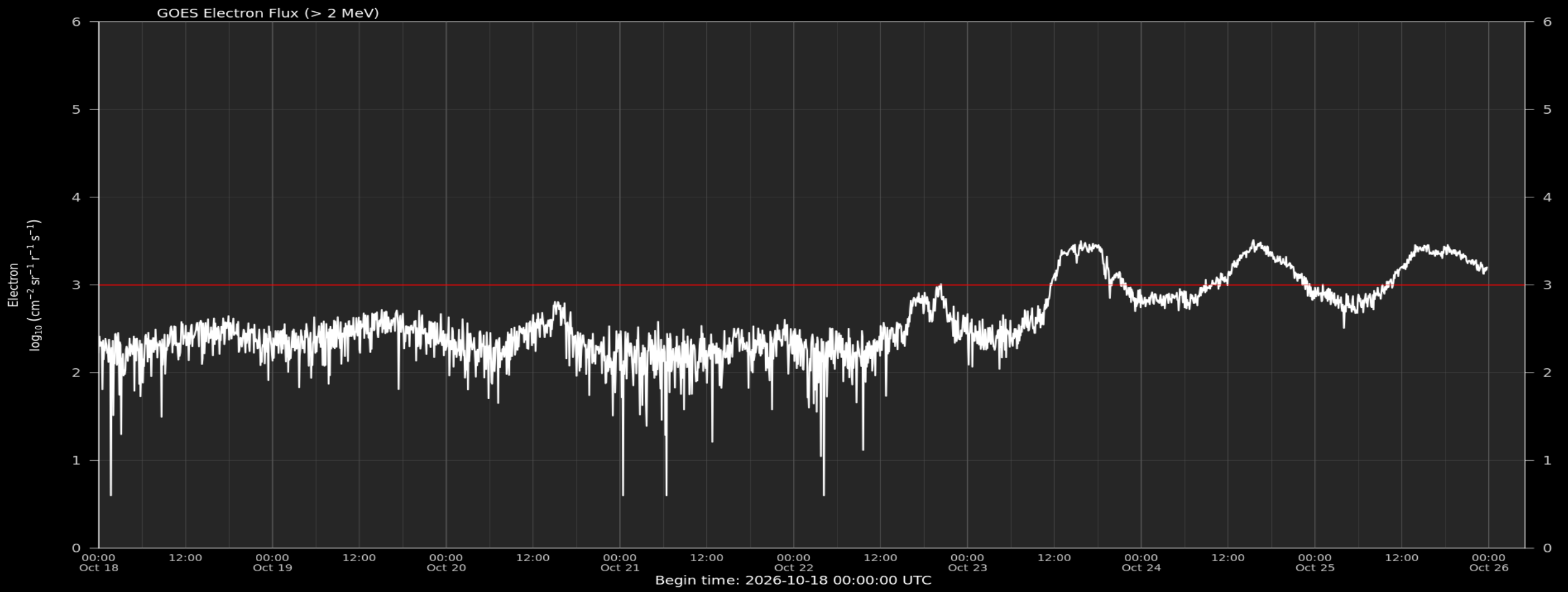
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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

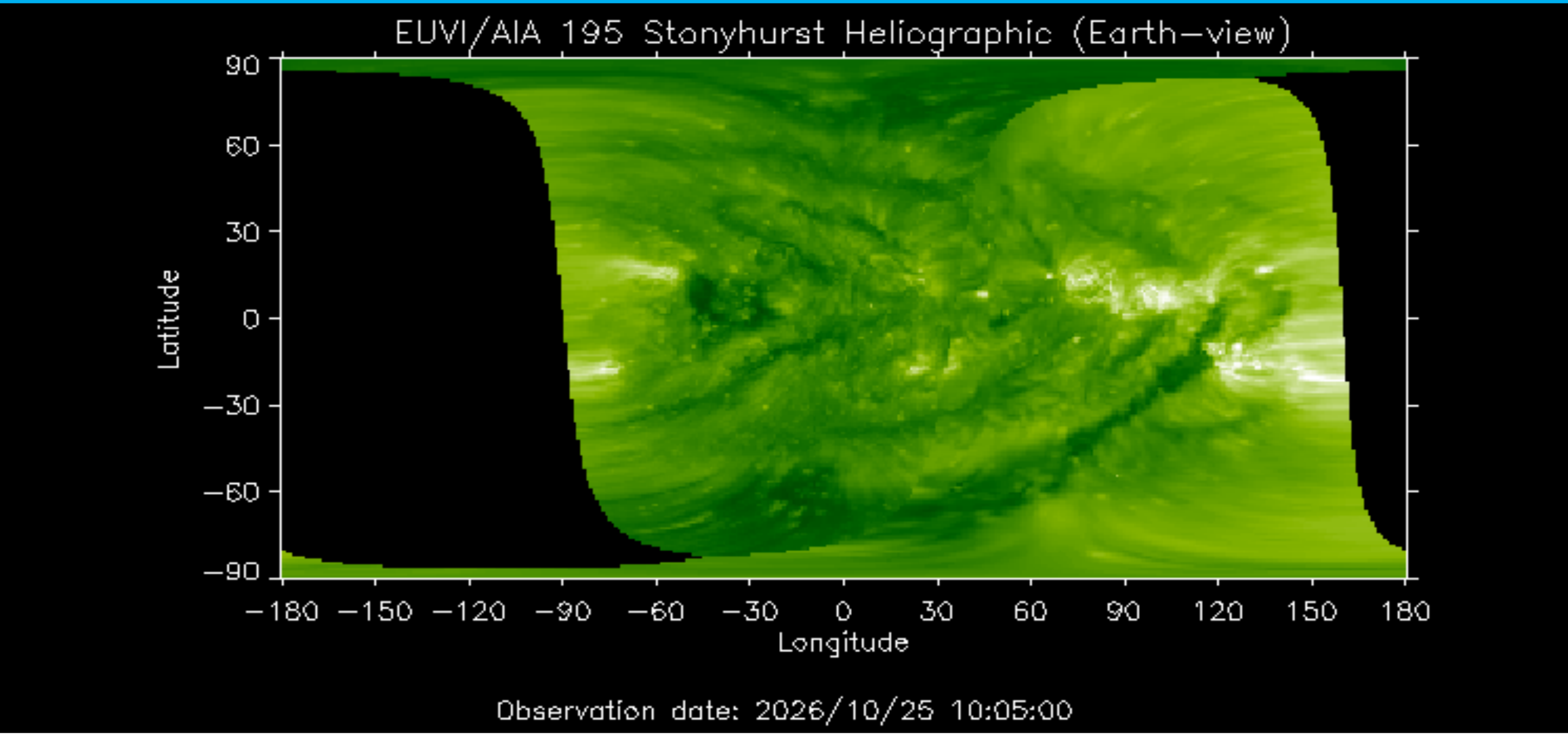


Outlook

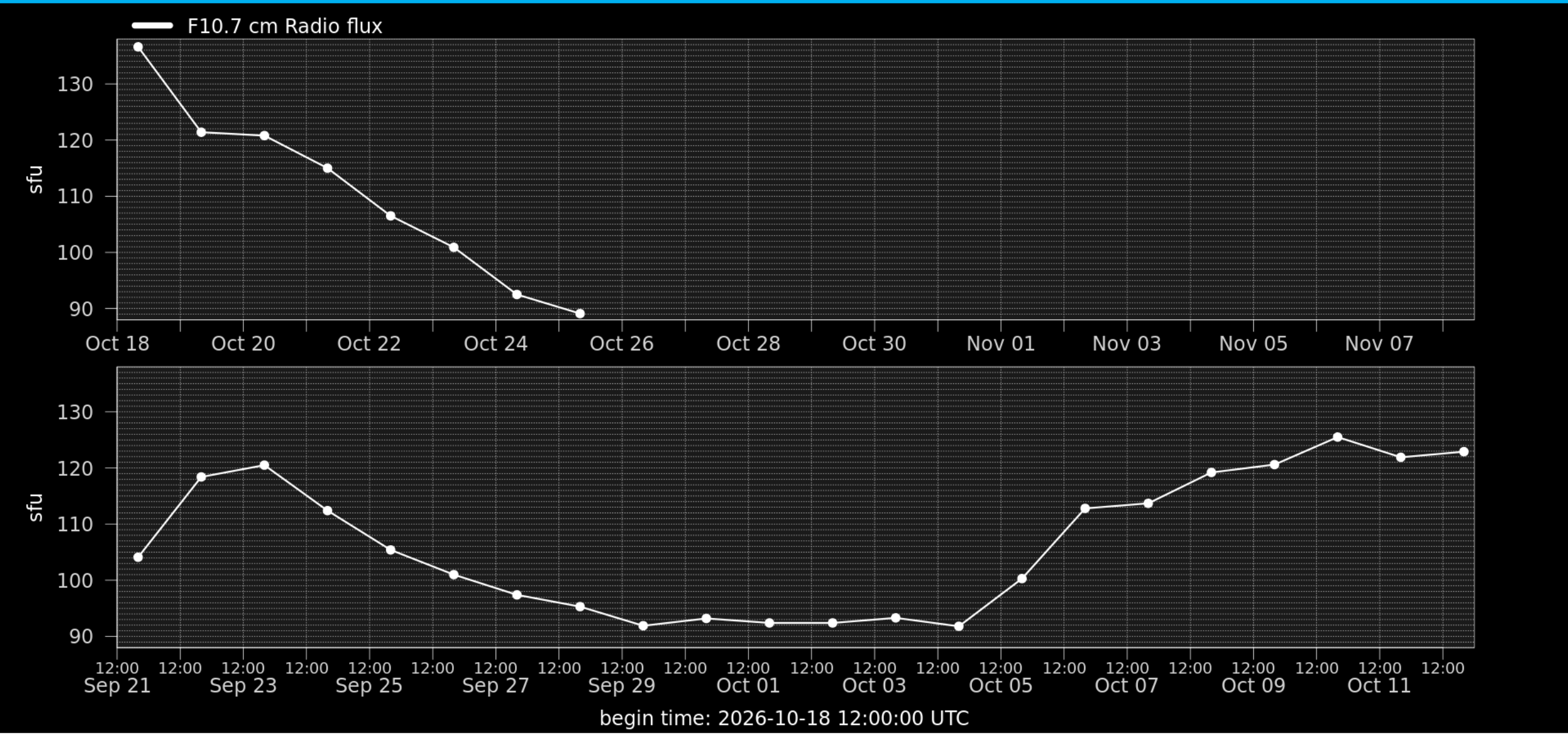
Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Outlook: Solar activity



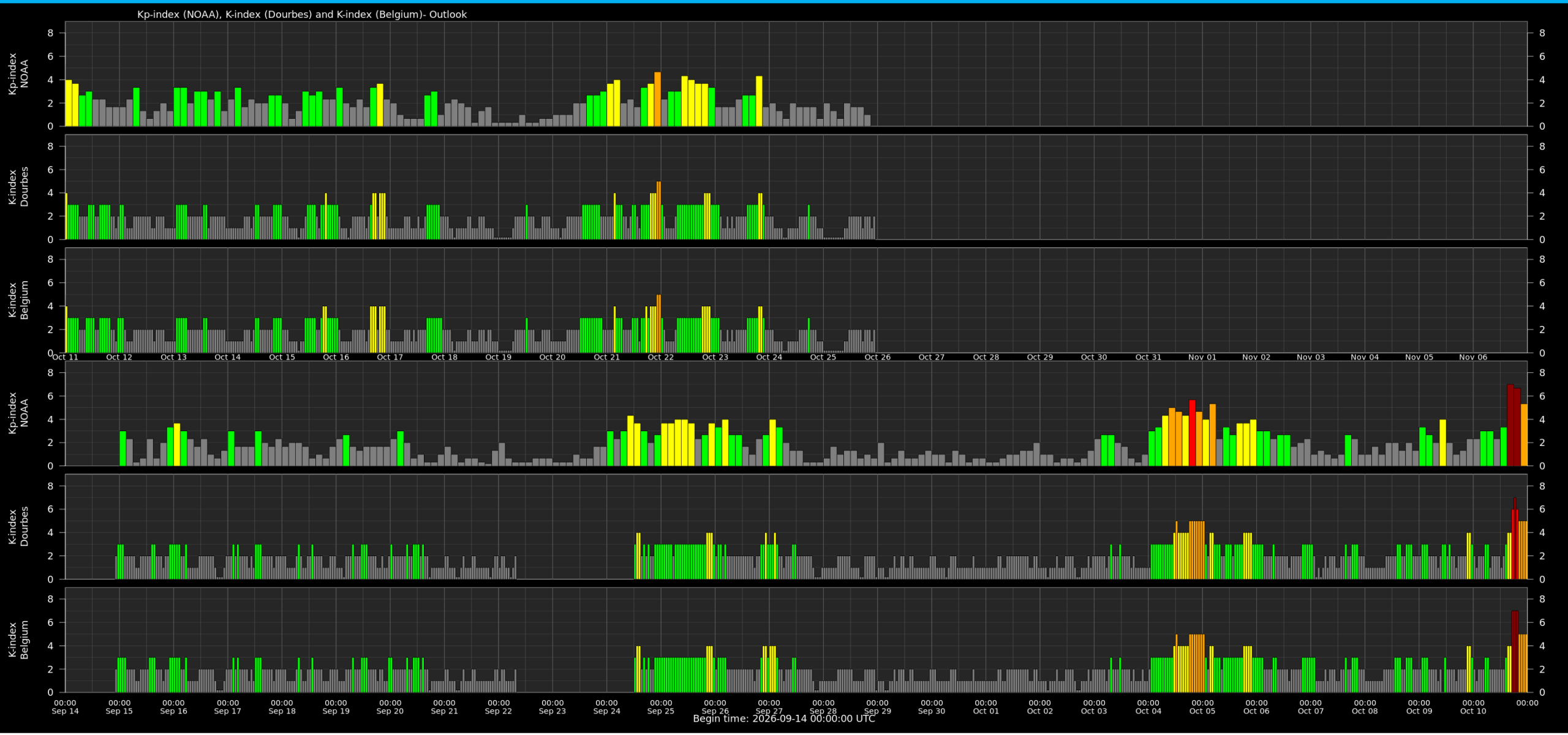
Outlook: Solar F10.7cm radio flux



Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Pecasus related events

GNSS advisories:

- Scintillations

ODC tomorrow

SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at www.sidc.be

Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be