

SIDC Space Weather Briefing

21 September 2026-27 September 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 2026-09-21 00:00 to 2026-09-27 23:59

Active regions	12 Sunspot groups – SIDC 964 (NOAA 4534) ; SIDC 966 (NOAA 4536); SIDC 962 (NOAA 4535)
Flares	# C-class flare: 19 # M-class flare: 0 # X-class flare: 0
Coronal Holes	2 CH+ & 1 CH-
CMEs	No Earth directed CMEs

Proton flux	At background levels
Electron flux	The electron flux reached moderate levels

Solar wind and geomagnetic conditions

ICMEs	No ICME arrival
Solar wind conditions	B : 1.75 - 15.5 nT// Bz: -12.98 nT to 9.98 nT// Speed: 274.2 - 557.2 km/s
Geomagnetic conditions	max K _{Bel} : 4.0, max K _p (NOAA): 4.33, Active conditions

All Quiet Alert: OFF

Solar Activity

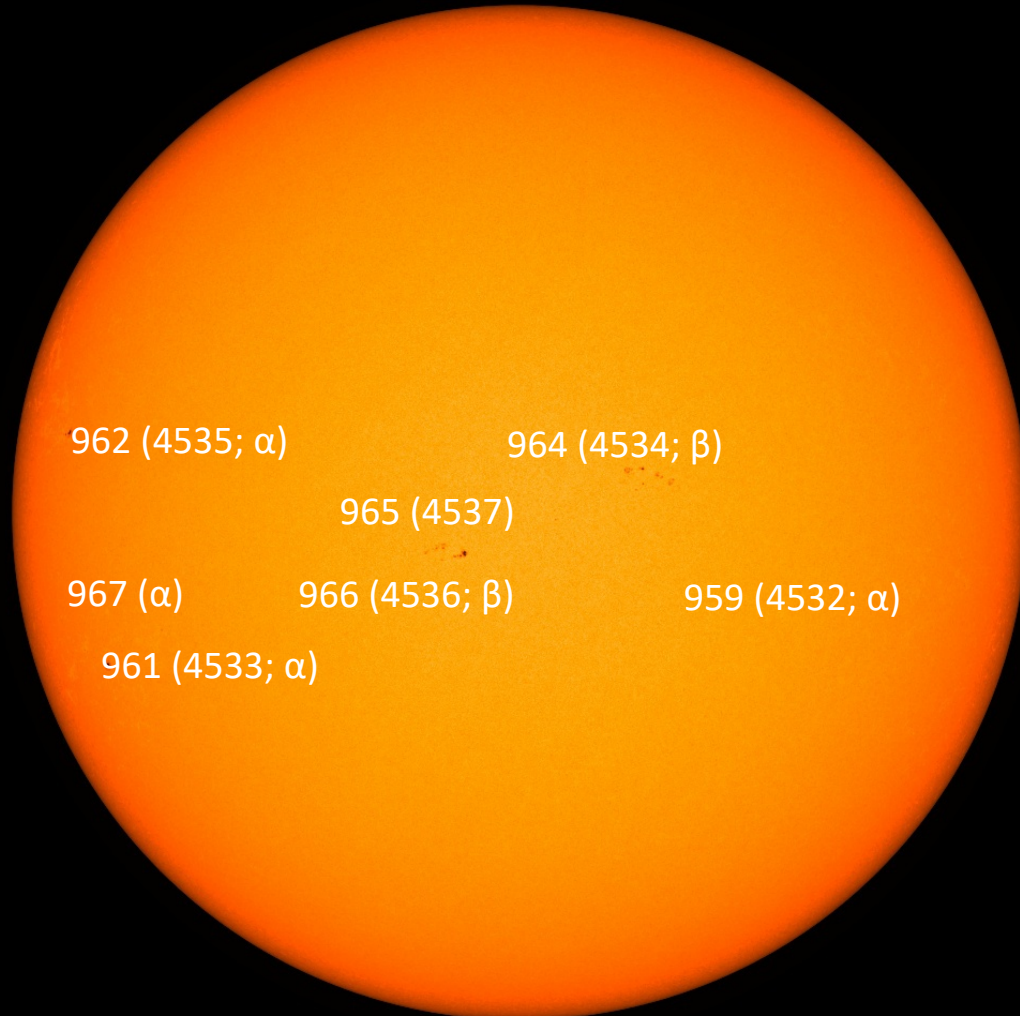


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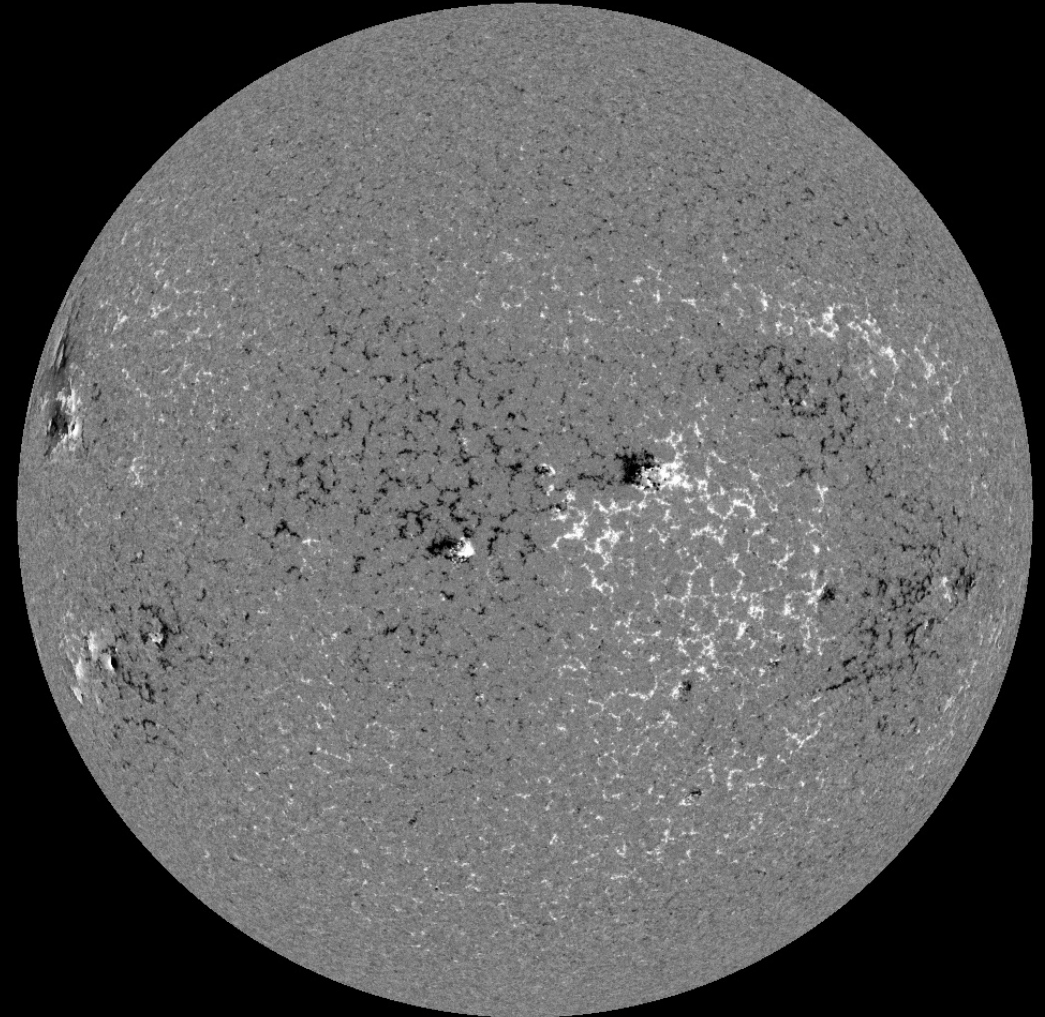
Solar active regions

SDO/HMI White Light 2026-09-21



SDO/HMI Continuum: 20260921_120000

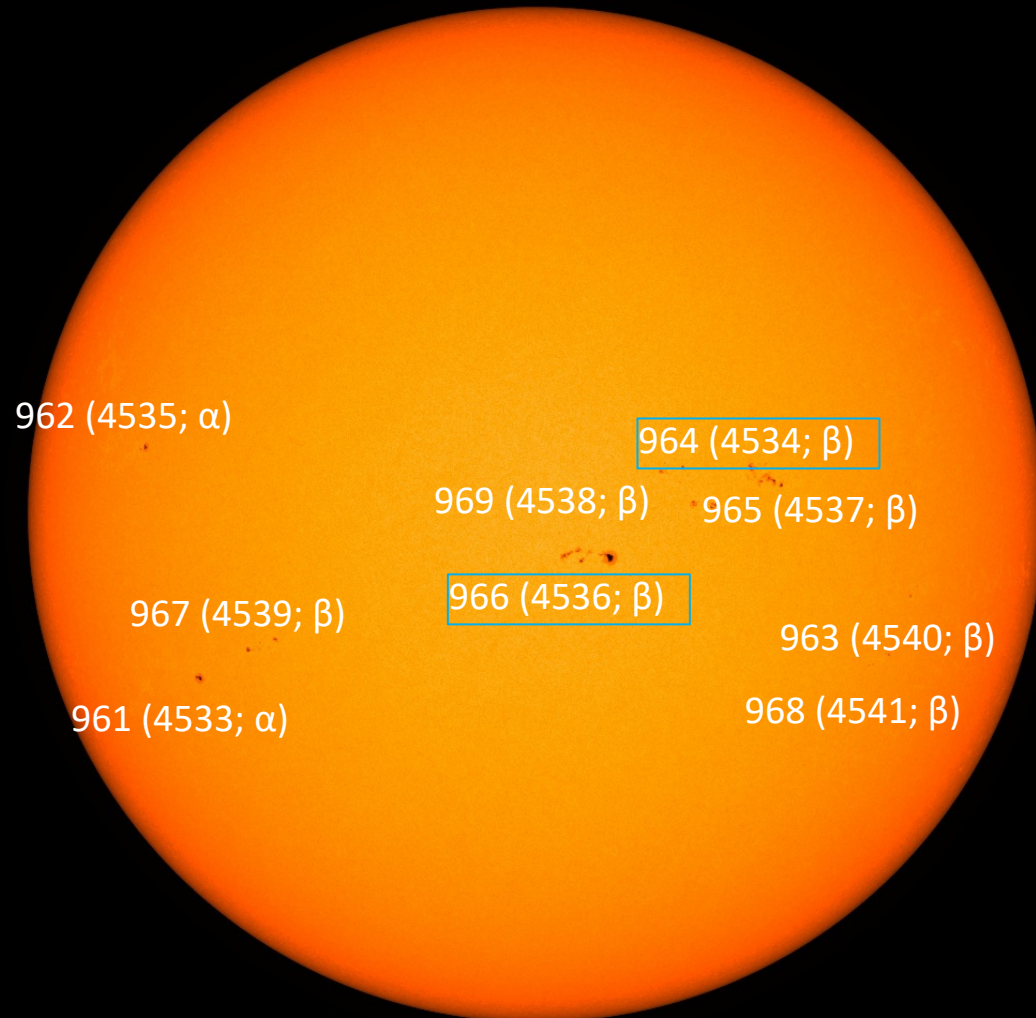
SDO/HMI Magnetogram 2026-09-21



SDO/HMI Magnetogram: 20260921_120000

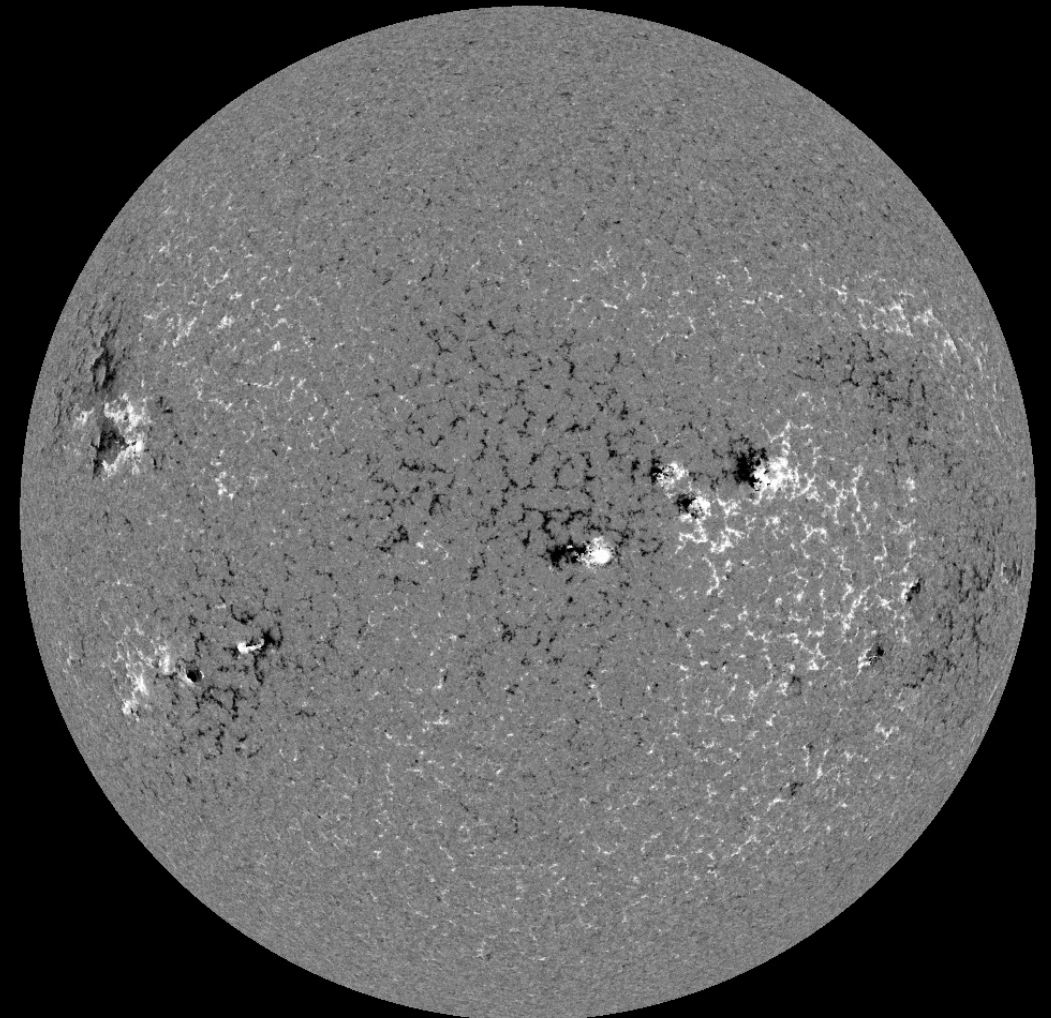
Solar active regions

SDO/HMI White Light 2026-09-22



SDO/HMI Continuum: 20260922_120000

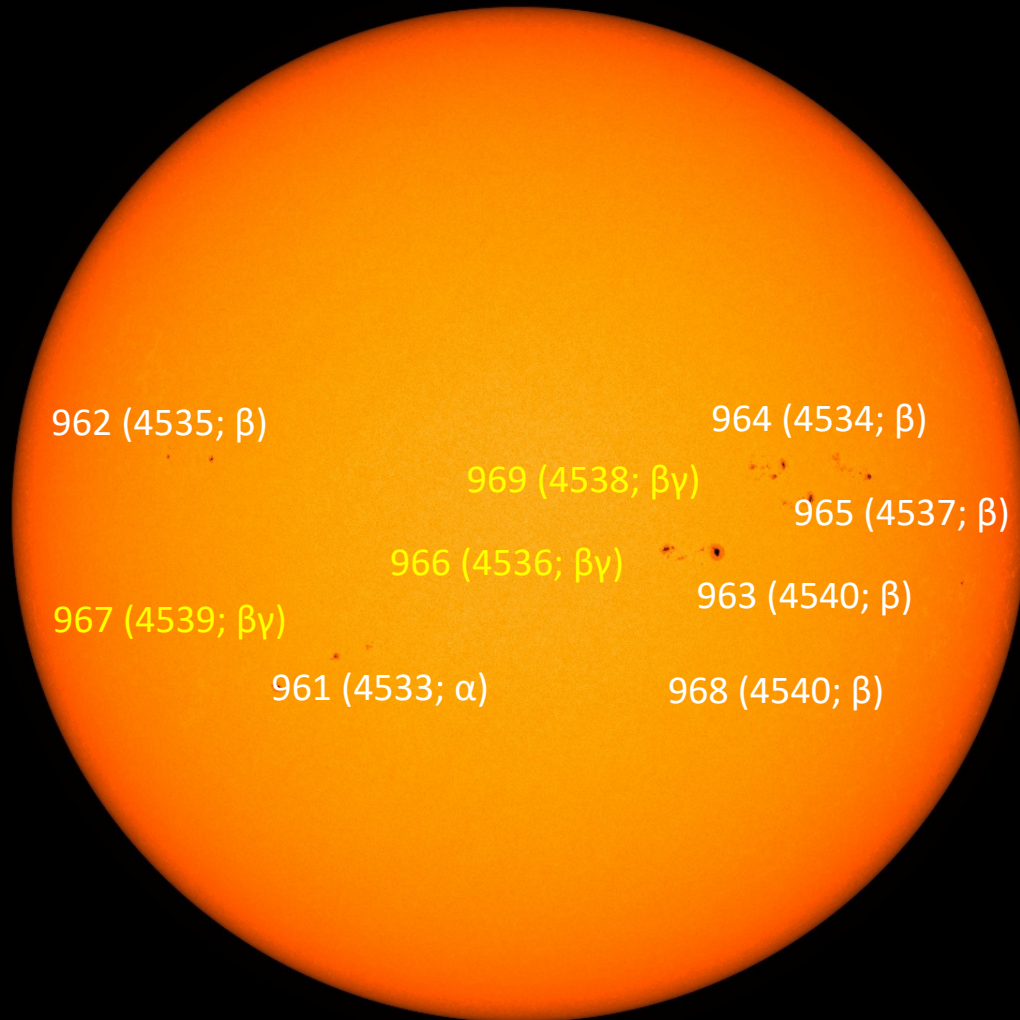
SDO/HMI Magnetogram 2026-09-22



SDO/HMI Magnetogram: 20260922_120000

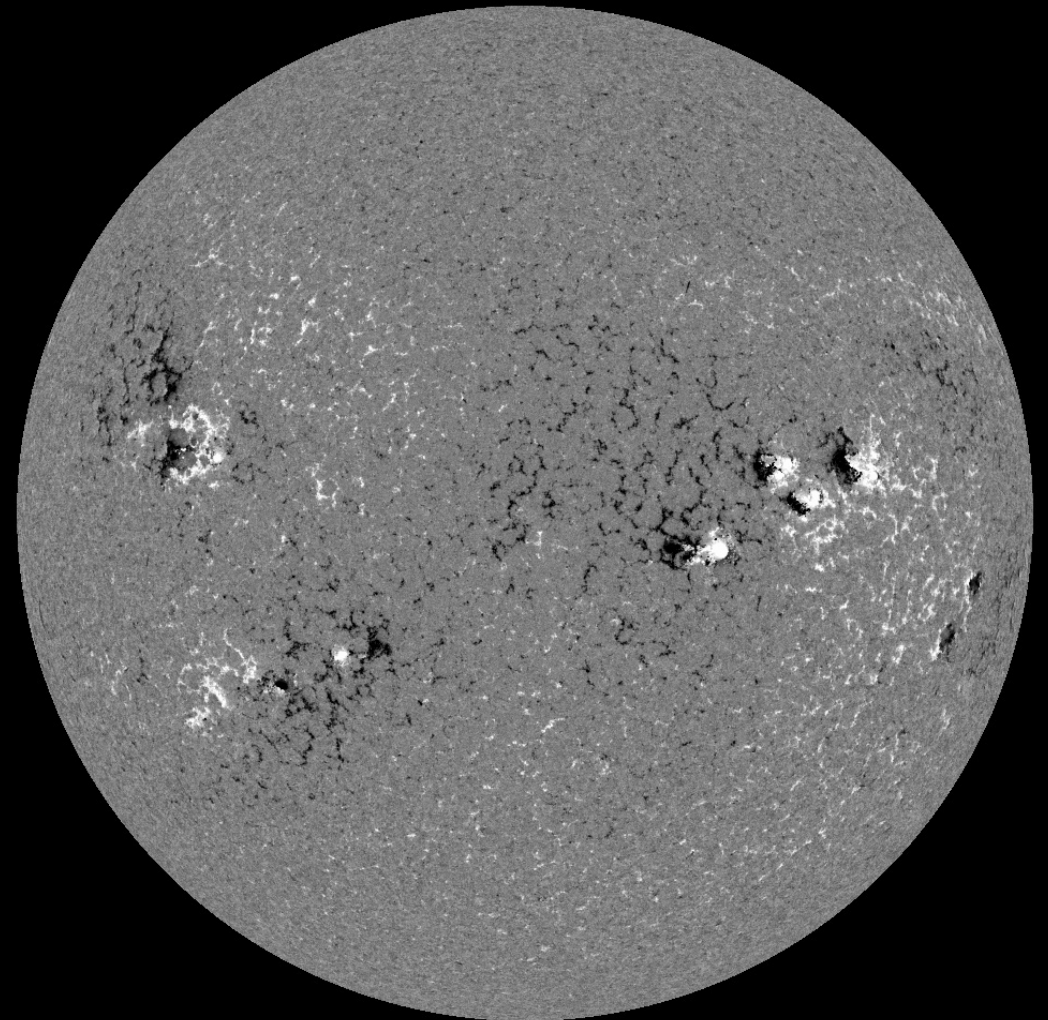
Solar active regions

SDO/HMI White Light 2026-09-23



SDO/HMI Continuum: 20260923_120000

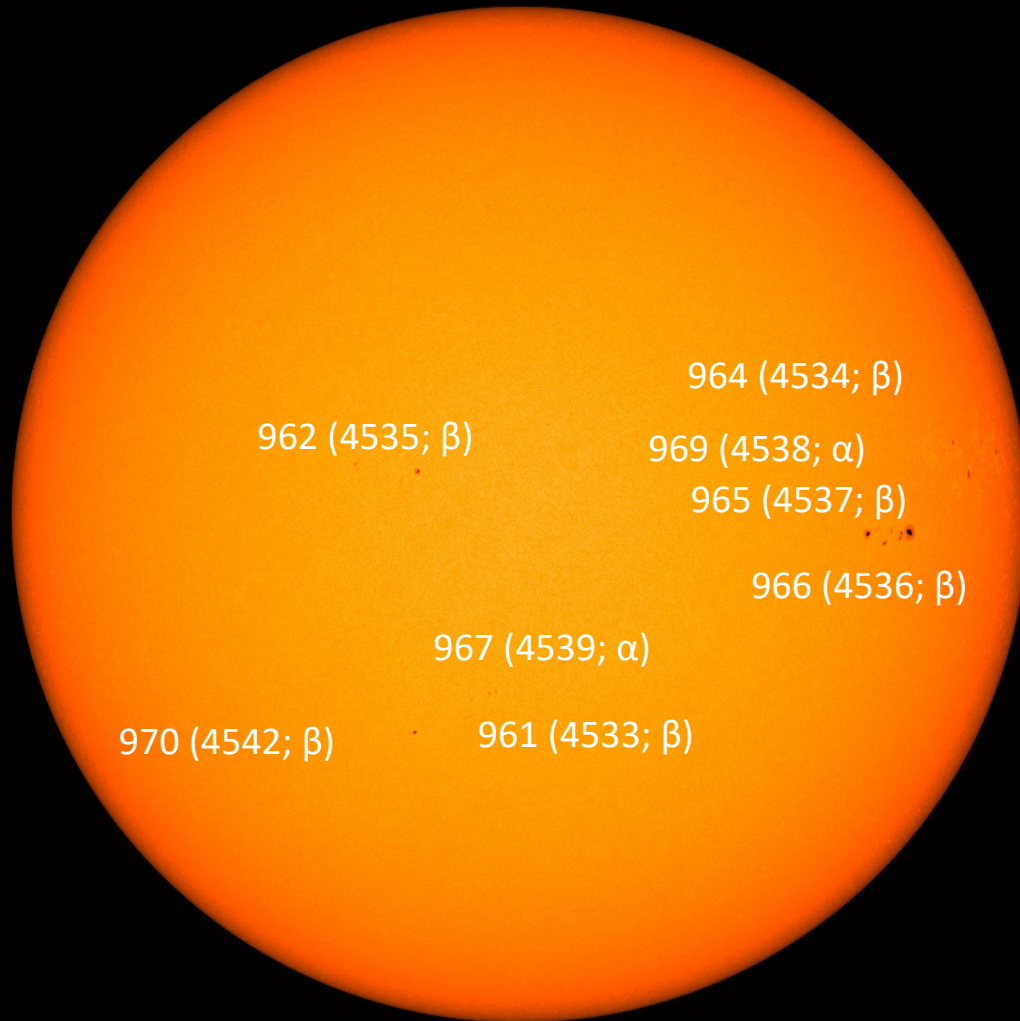
SDO/HMI Magnetogram 2026-09-23



SDO/HMI Magnetogram: 20260923_120000

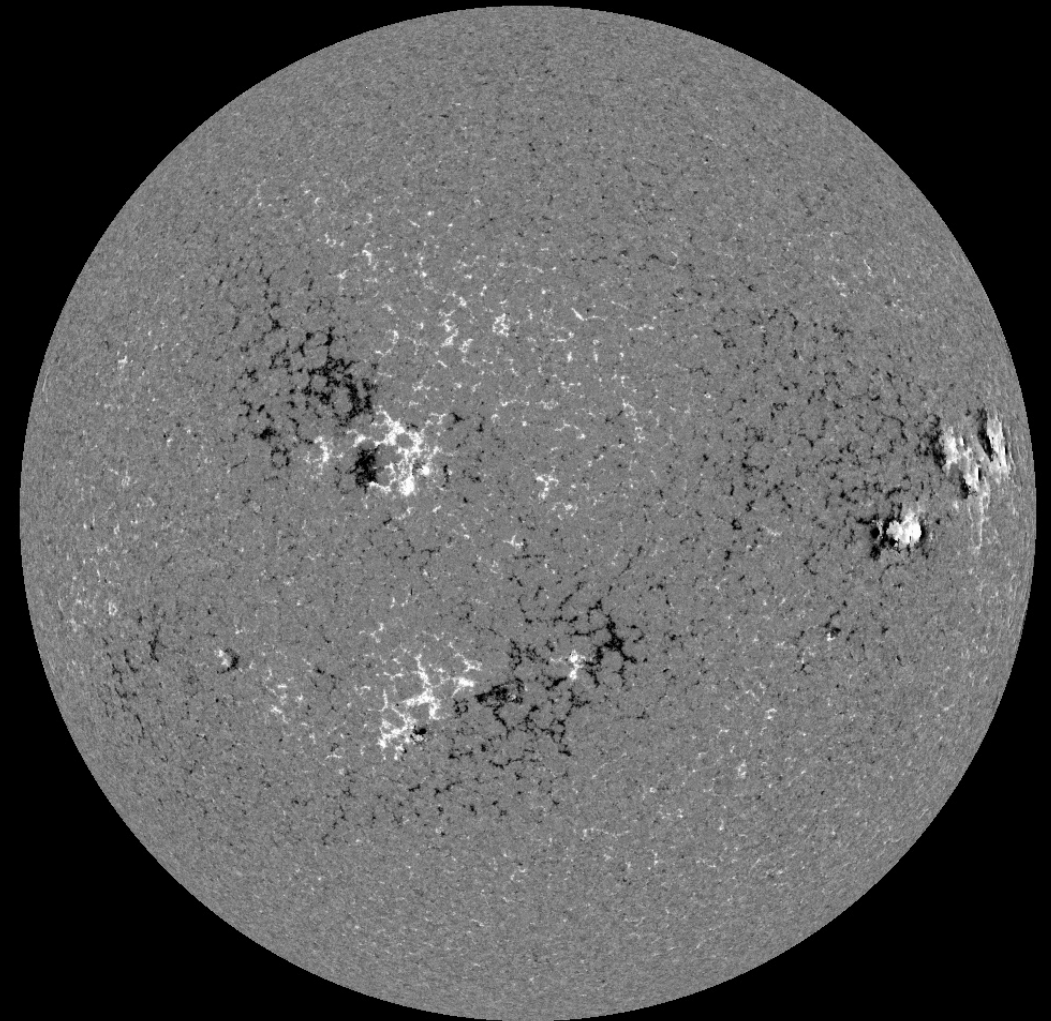
Solar active regions

SDO/HMI White Light 2026-09-25



SDO/HMI Quick-Look Continuum: 20260925_120000

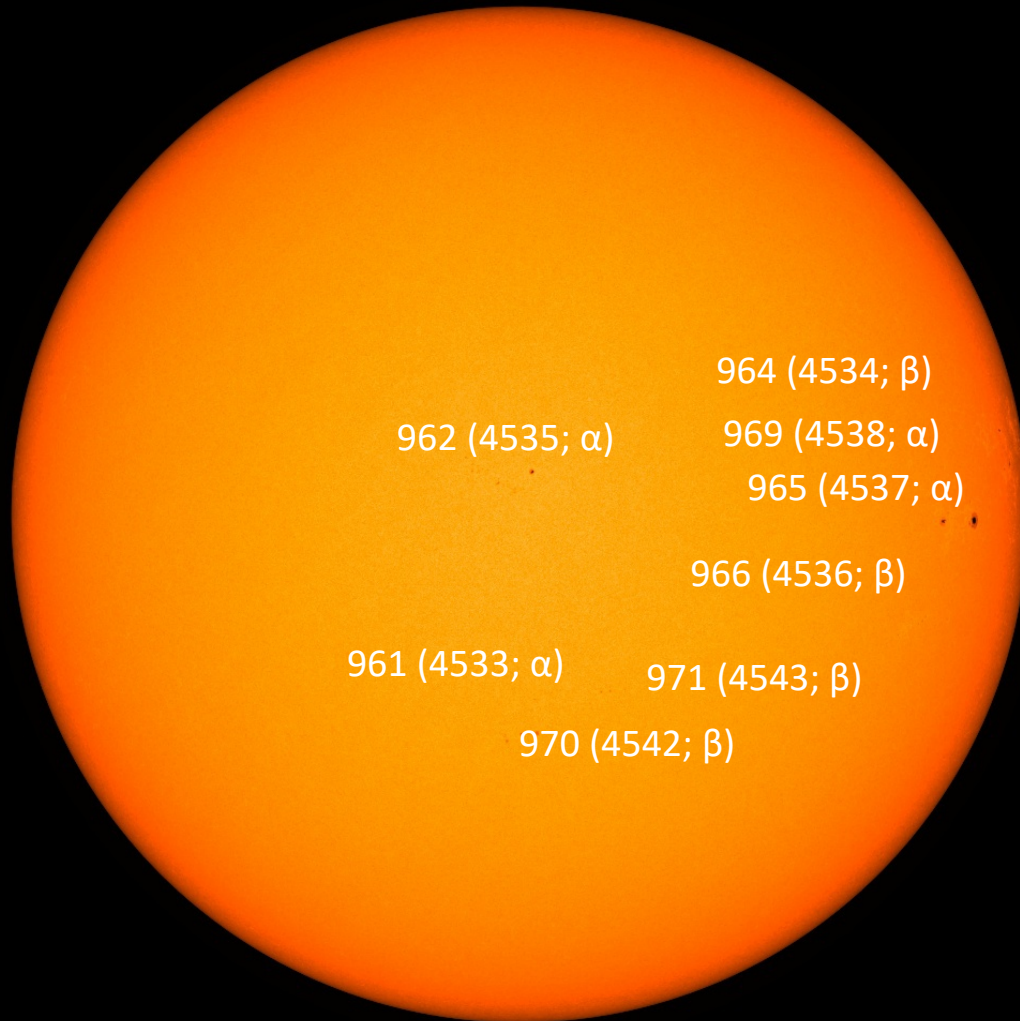
SDO/HMI Magnetogram 2026-09-25



SDO/HMI Quick-Look Magnetogram: 20260925_120000

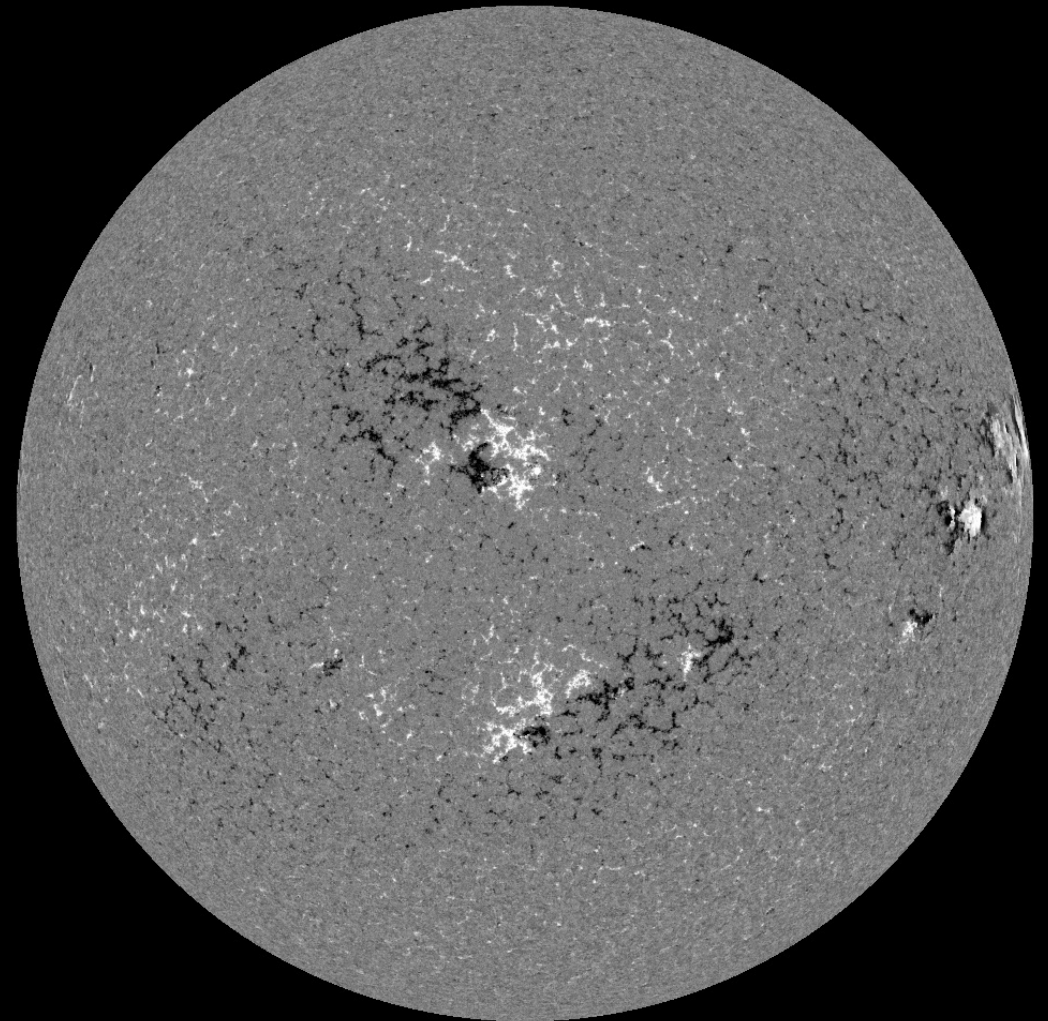
Solar active regions

SDO/HMI White Light 2026-09-26



SDO/HMI Quick-Look Continuum: 20260926_120000

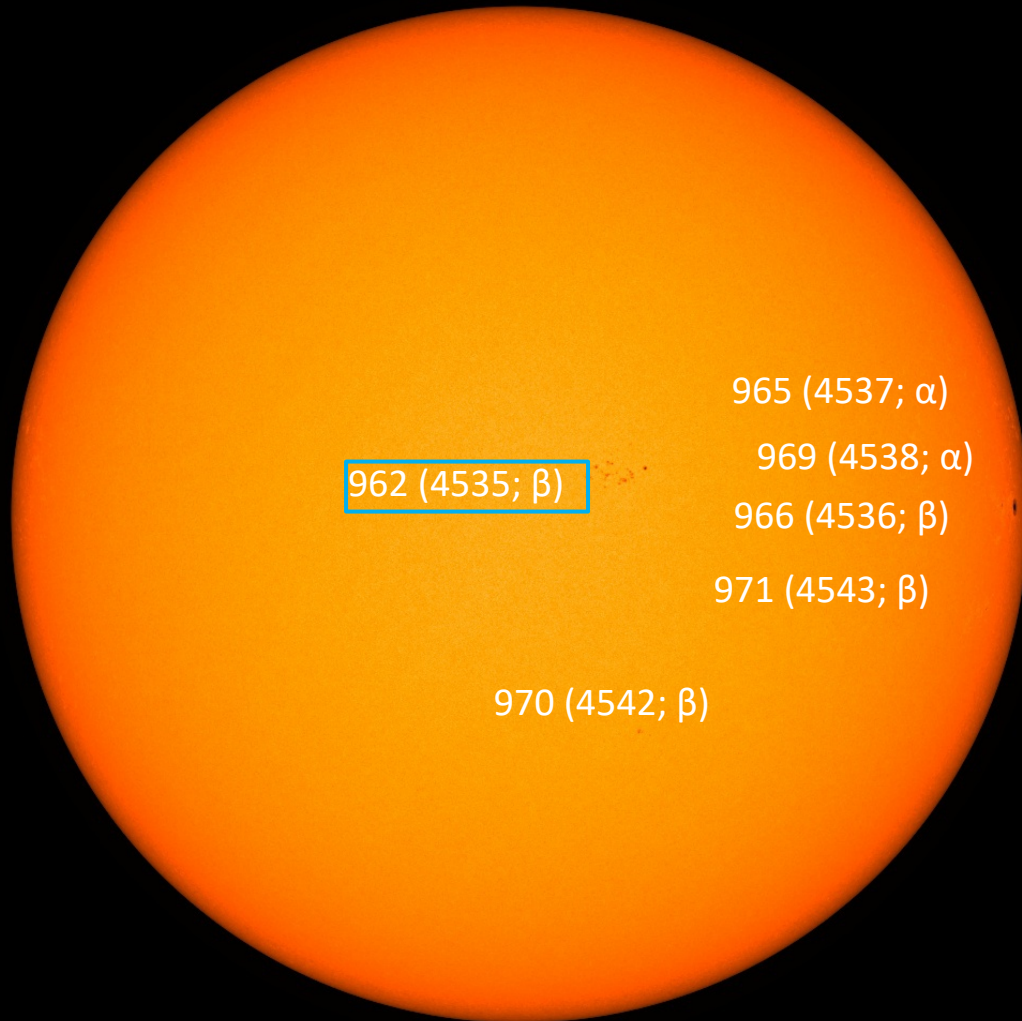
SDO/HMI Magnetogram 2026-09-26



SDO/HMI Quick-Look Magnetogram: 20260926_120000

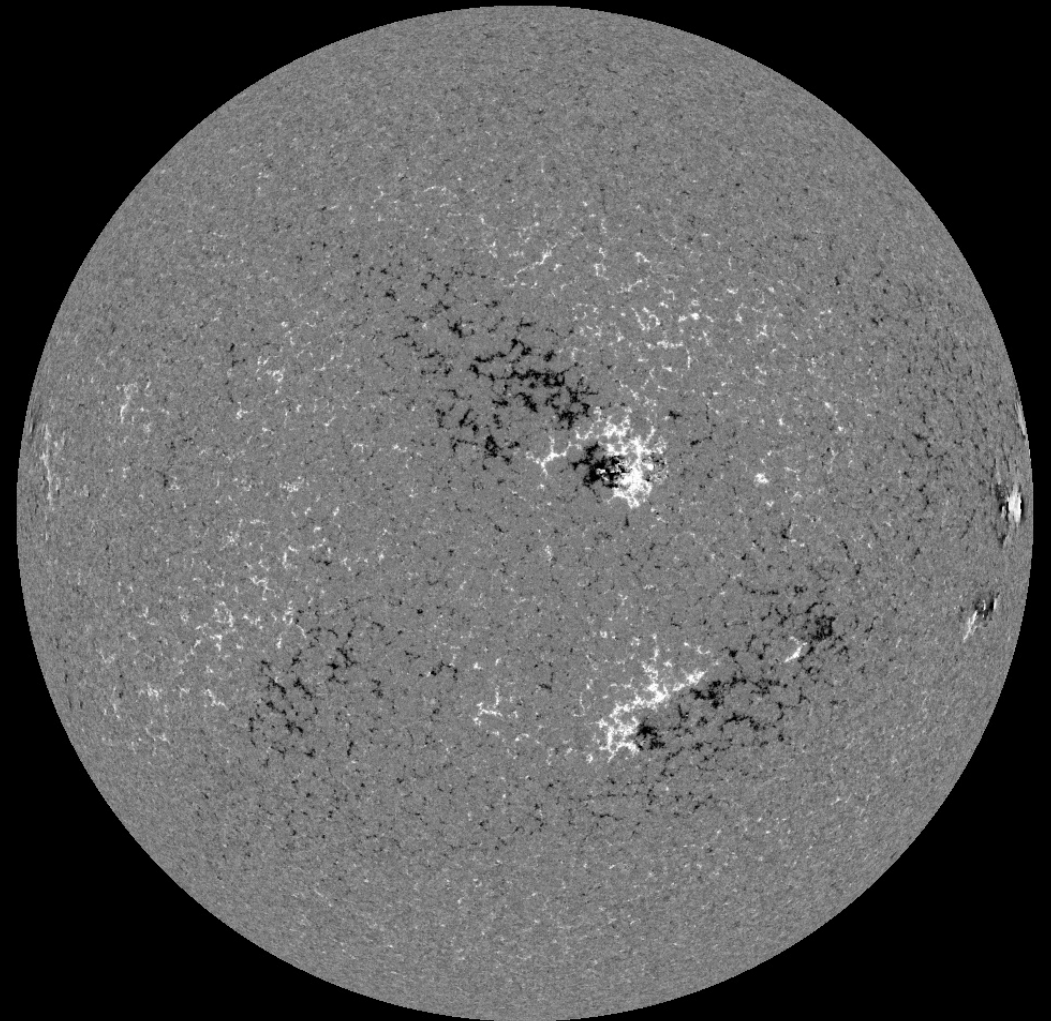
Solar active regions

SDO/HMI White Light 2026-09-27



SDO/HMI Quick-Look Continuum: 20260927_120000

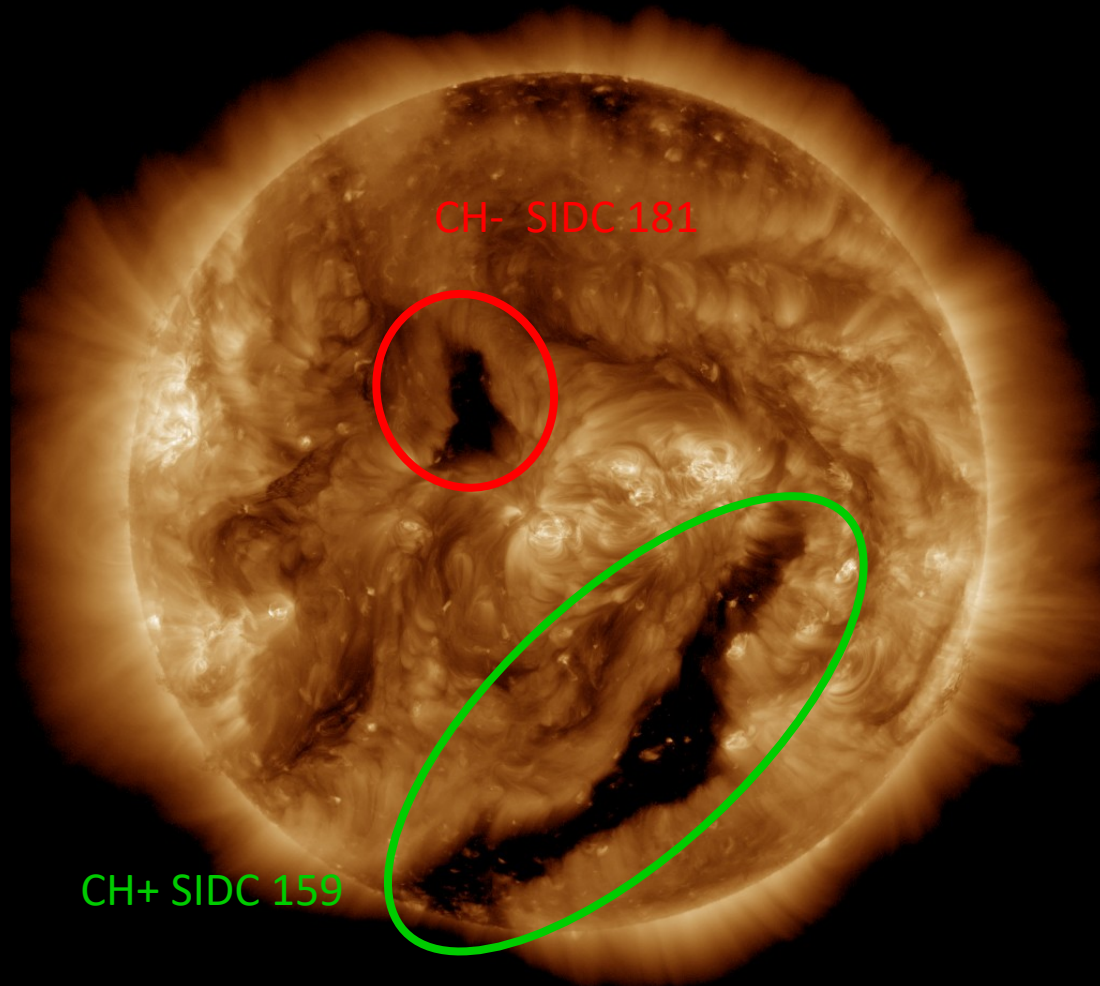
SDO/HMI Magnetogram 2026-09-27



SDO/HMI Quick-Look Magnetogram: 20260927_120000

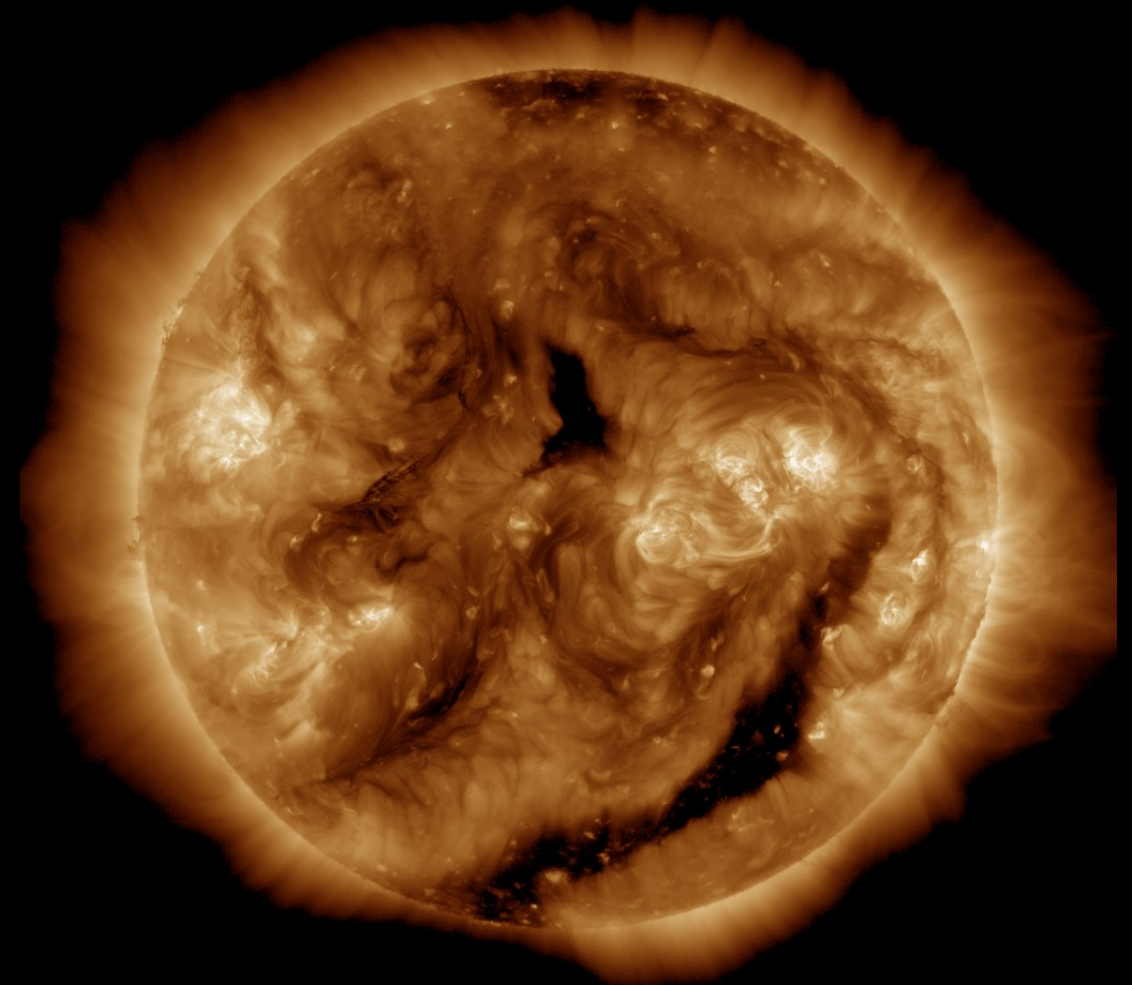
Coronal holes

SDO/AIA 19.3 nm 2026-09-21



SDO/AIA 193 2026-09-21 23:08:53 UT

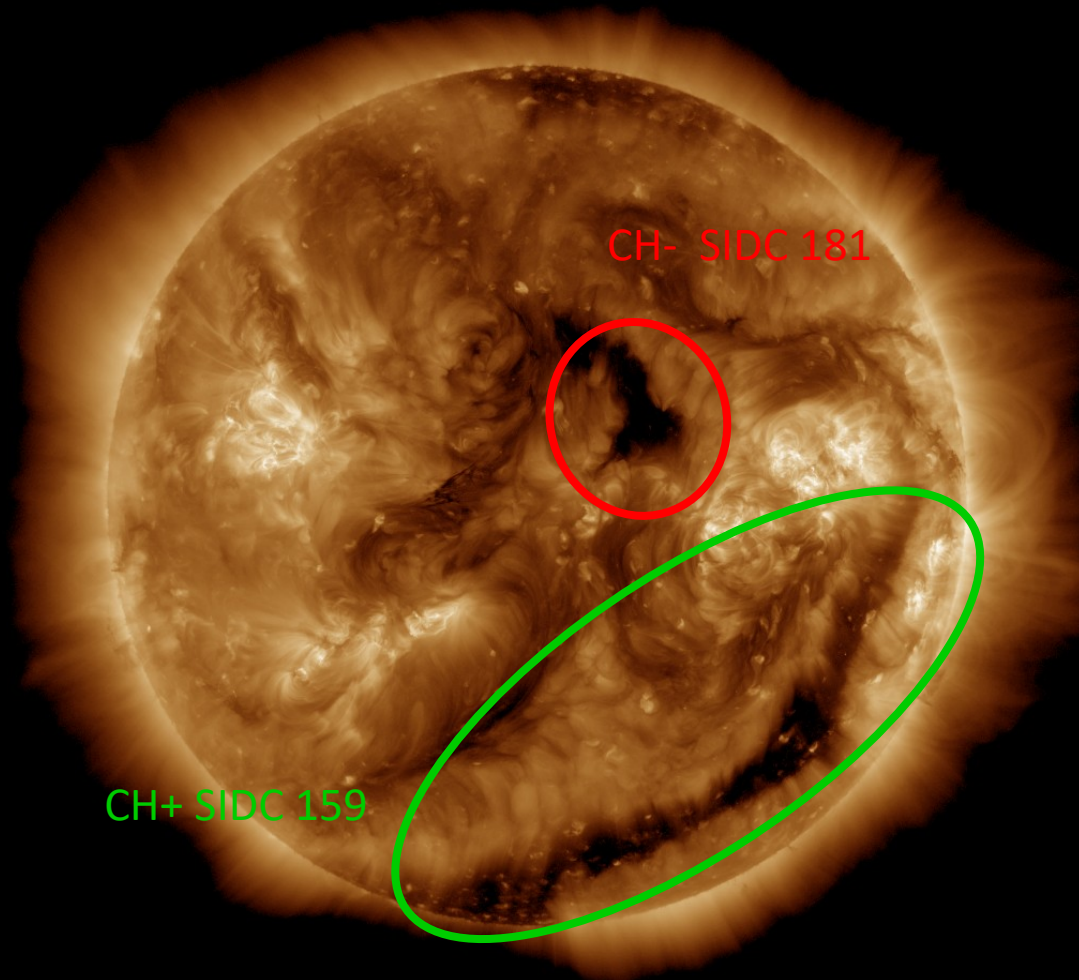
SDO/AIA 19.3 nm 2026-09-22



SDO/AIA 193 2026-09-22 22:58:17 UT

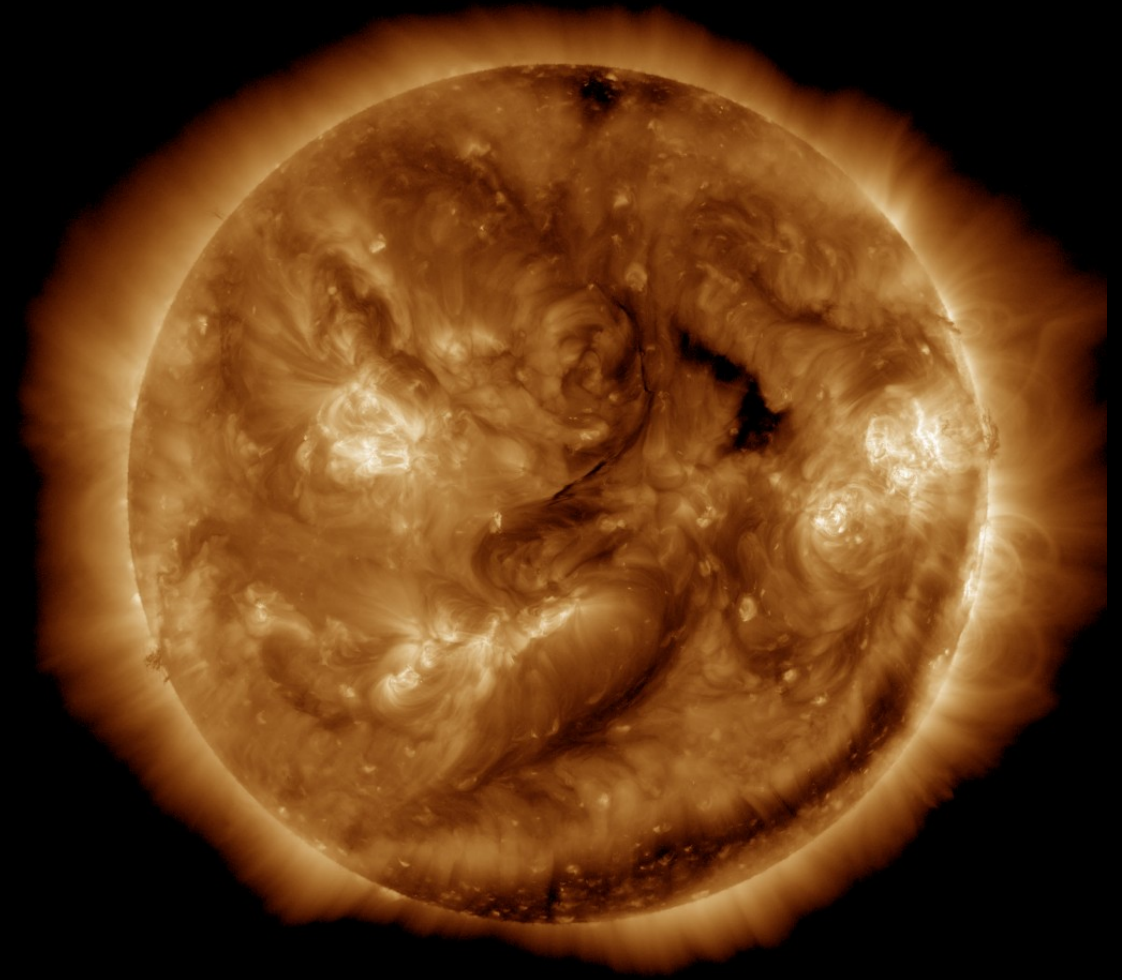
Coronal holes

SDO/AIA 19.3 nm 2026-09-23



SDO/AIA 193 2026-09-23 22:57:53 UT

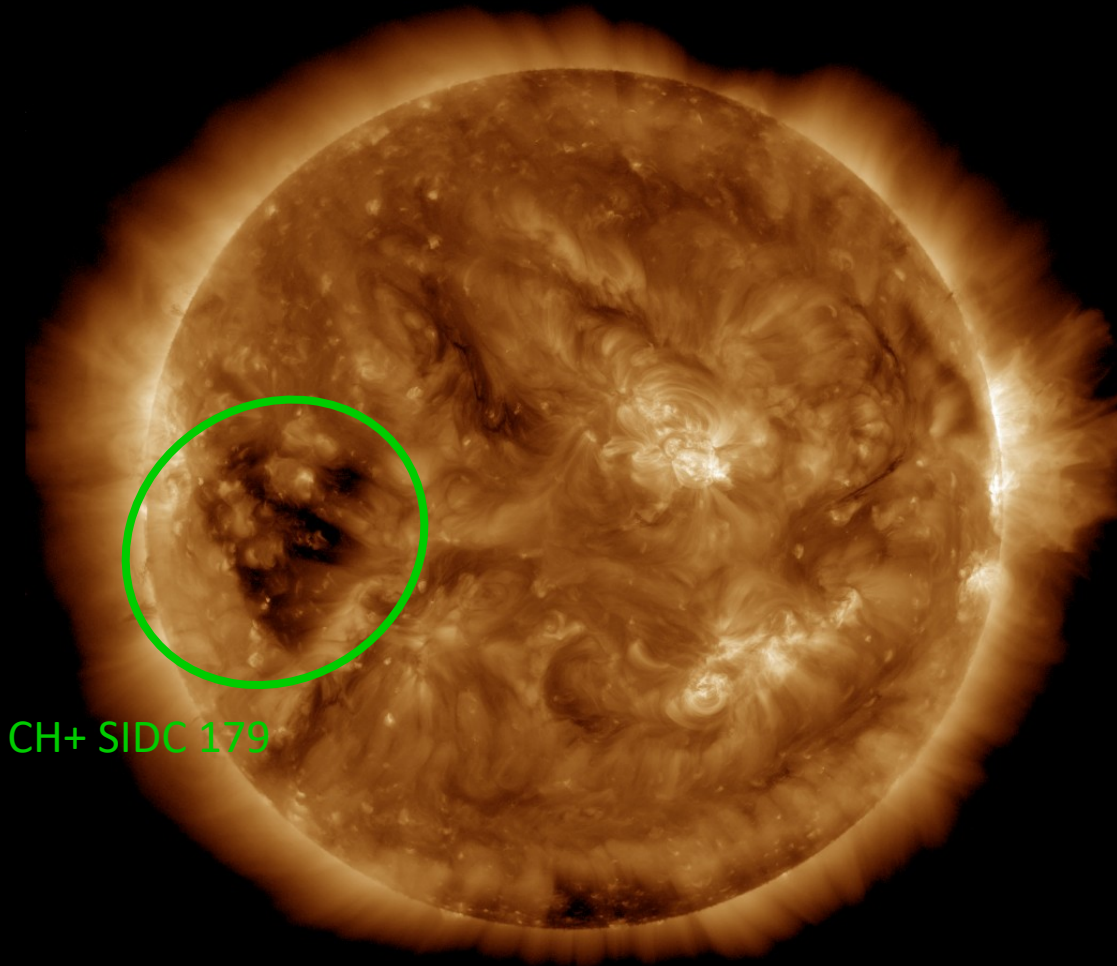
SDO/AIA 19.3 nm 2026-09-24



SDO/AIA 193 2026-09-24 22:57:29 UT

Coronal holes

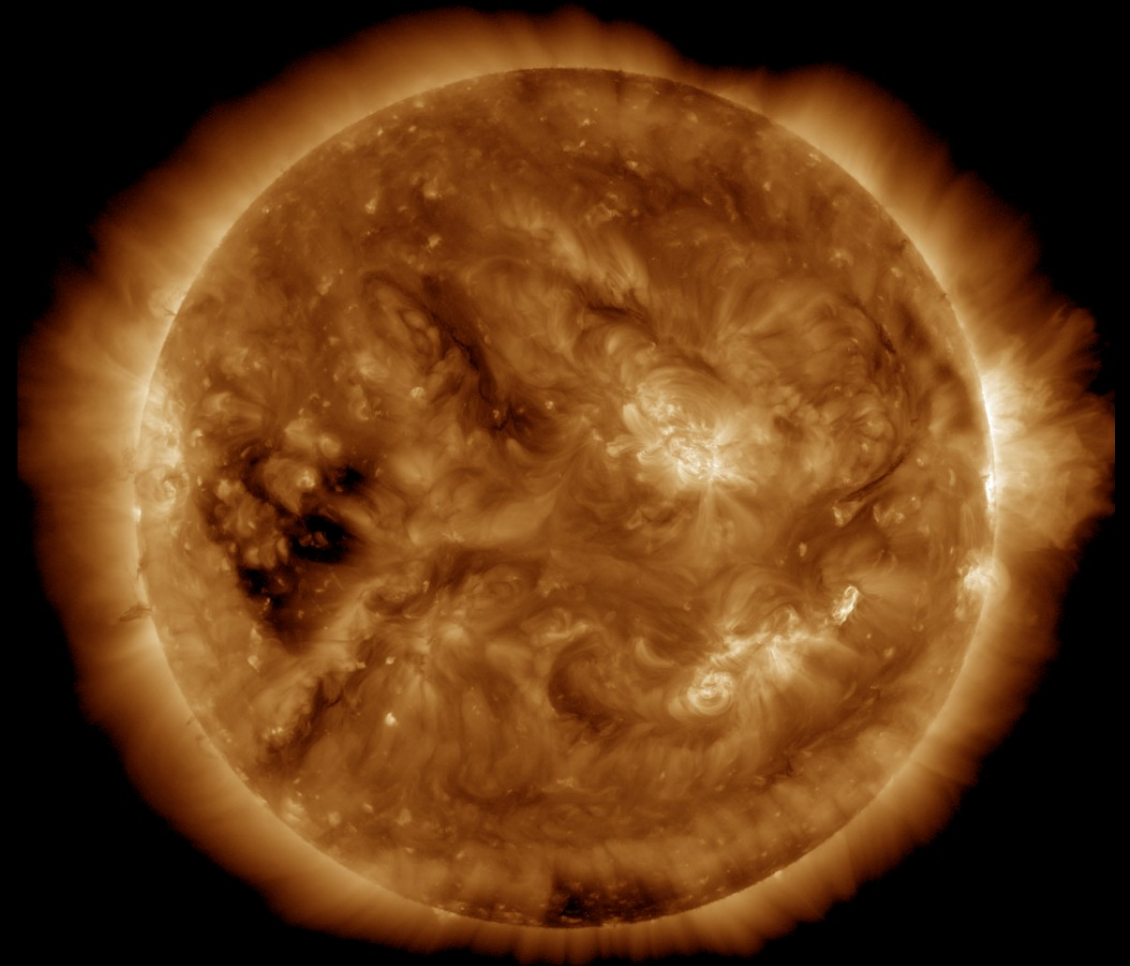
SDO/AIA 19.3 nm 2026-09-27



CH+ SIDC 179

SDO/AIA 193 2026-09-27 22:57:53 UT

SDO/AIA 19.3 nm 2026-09-28

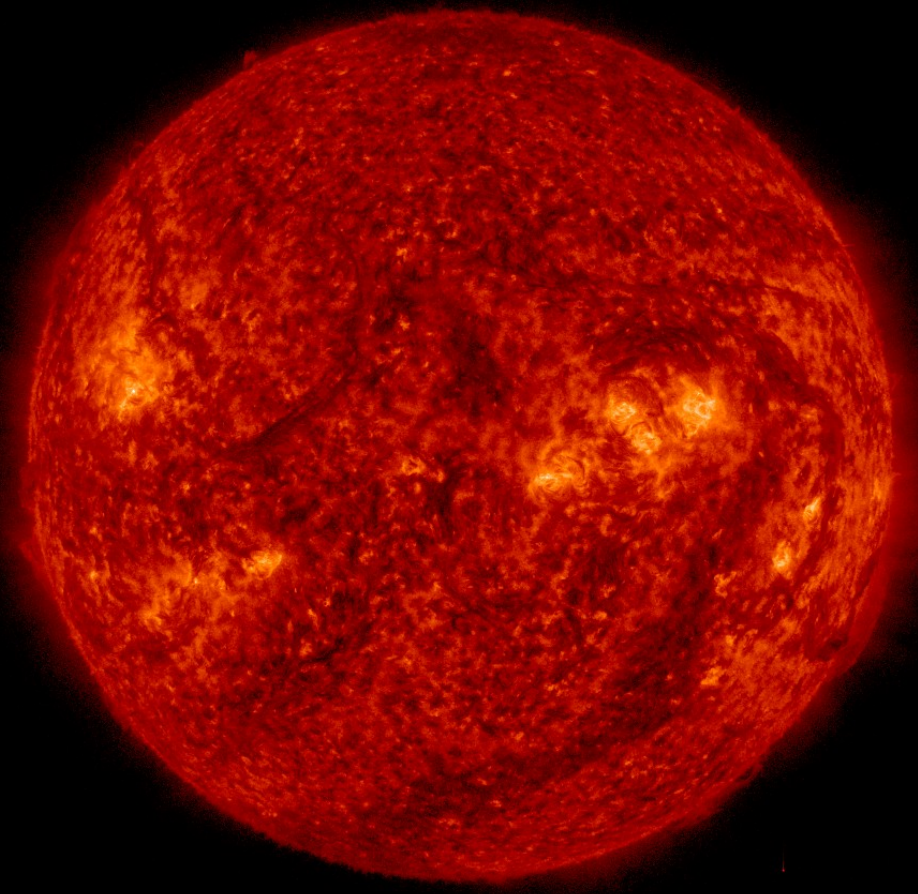
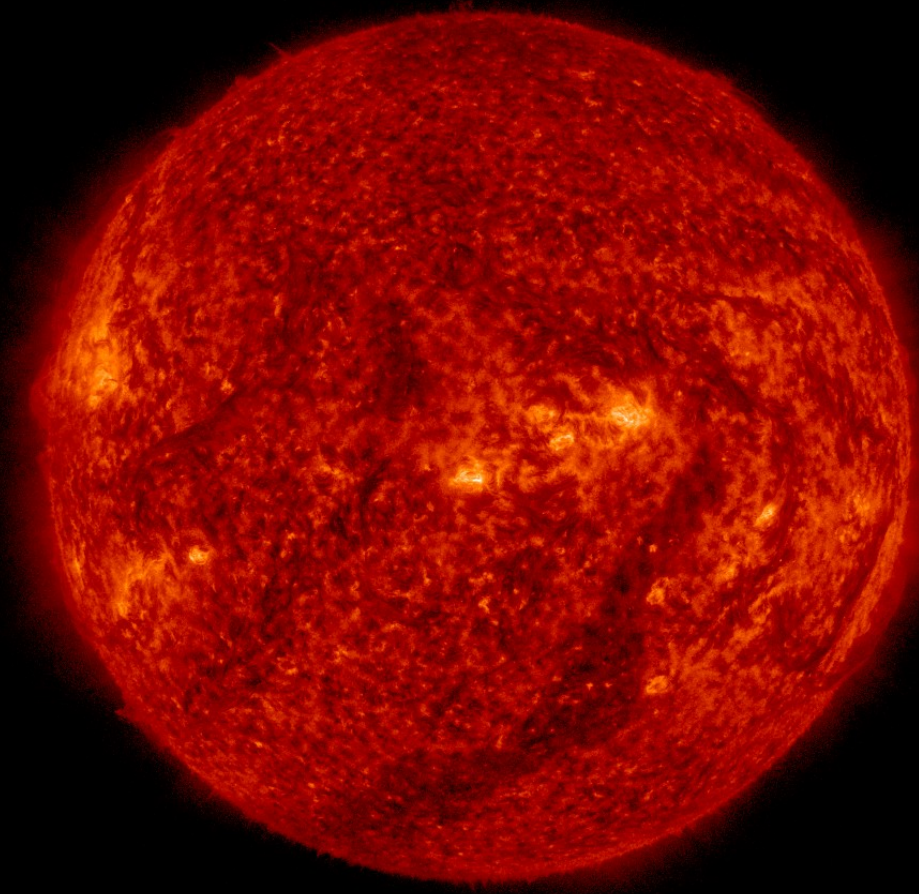


SDO/AIA 193 2026-09-28 01:57:53 UT

Filaments

SDO/AIA 30.4 nm 2026-09-21

SDO/AIA 30.4 nm 2026-09-22



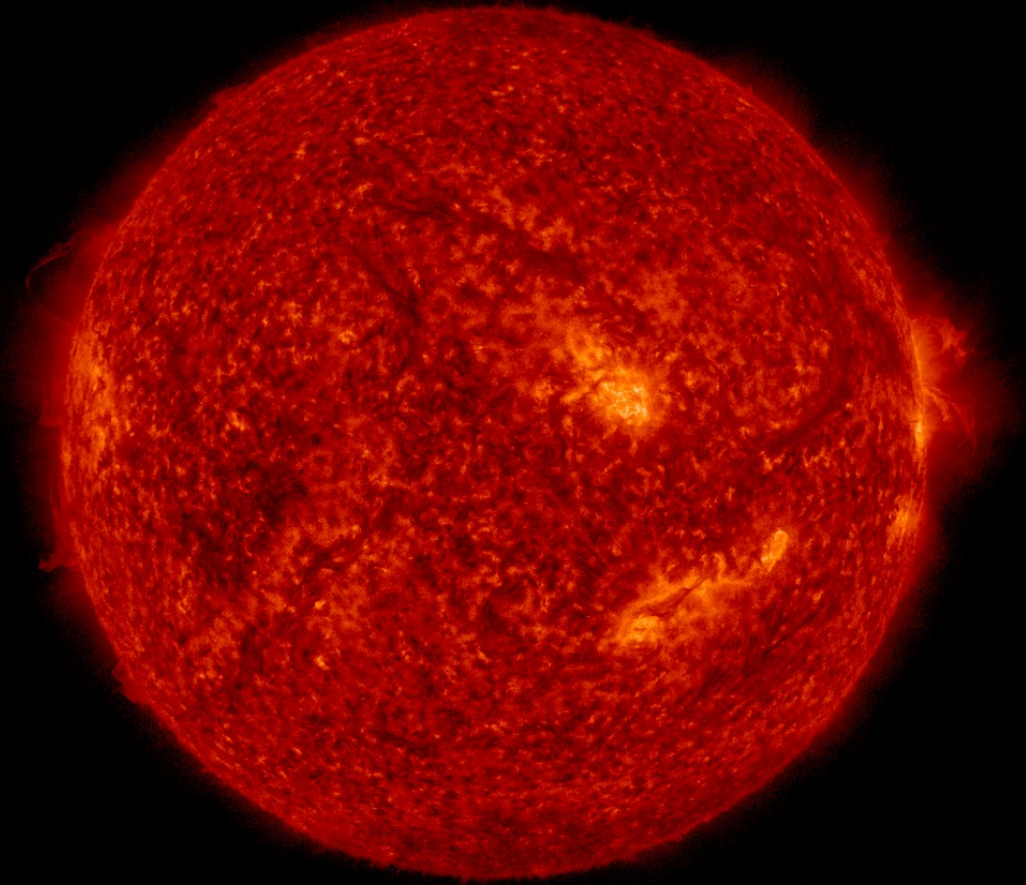
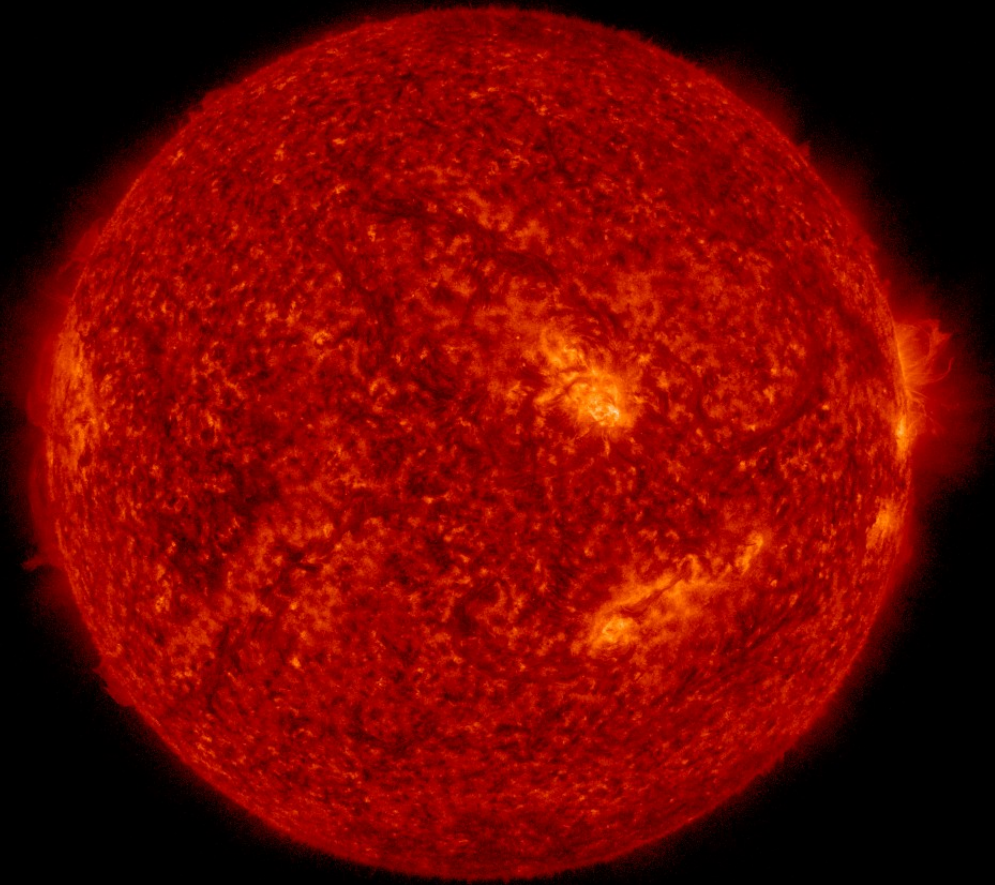
SDO/AIA 304 2026-09-21 22:58:18 UT

SDO/AIA 304 2026-09-22 22:58:18 UT

Filaments

SDO/AIA 30.4 nm 2026-09-27

SDO/AIA 30.4 nm 2026-09-28

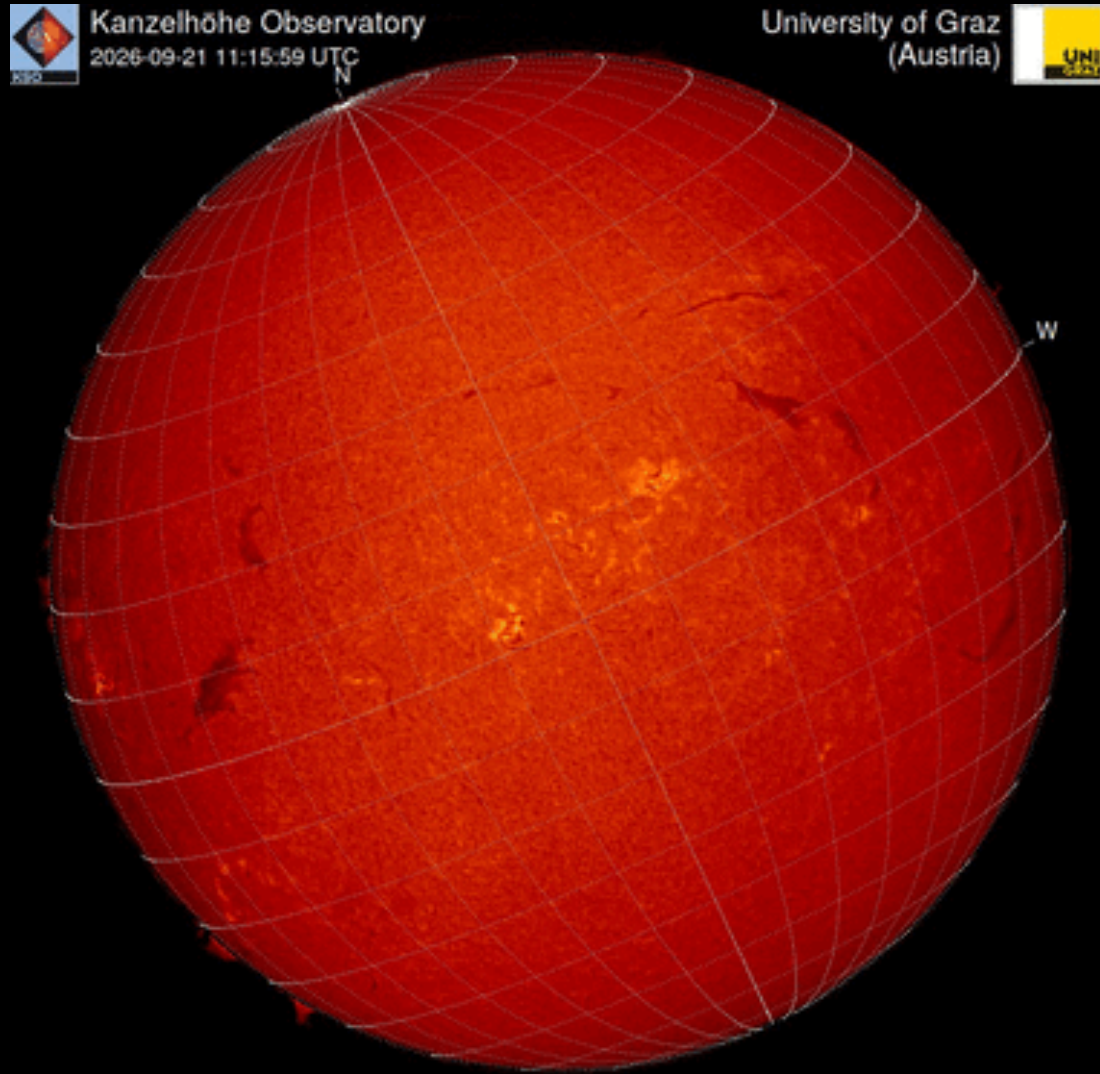


SDO/AIA 304 2026-09-27 22:58:54 UT

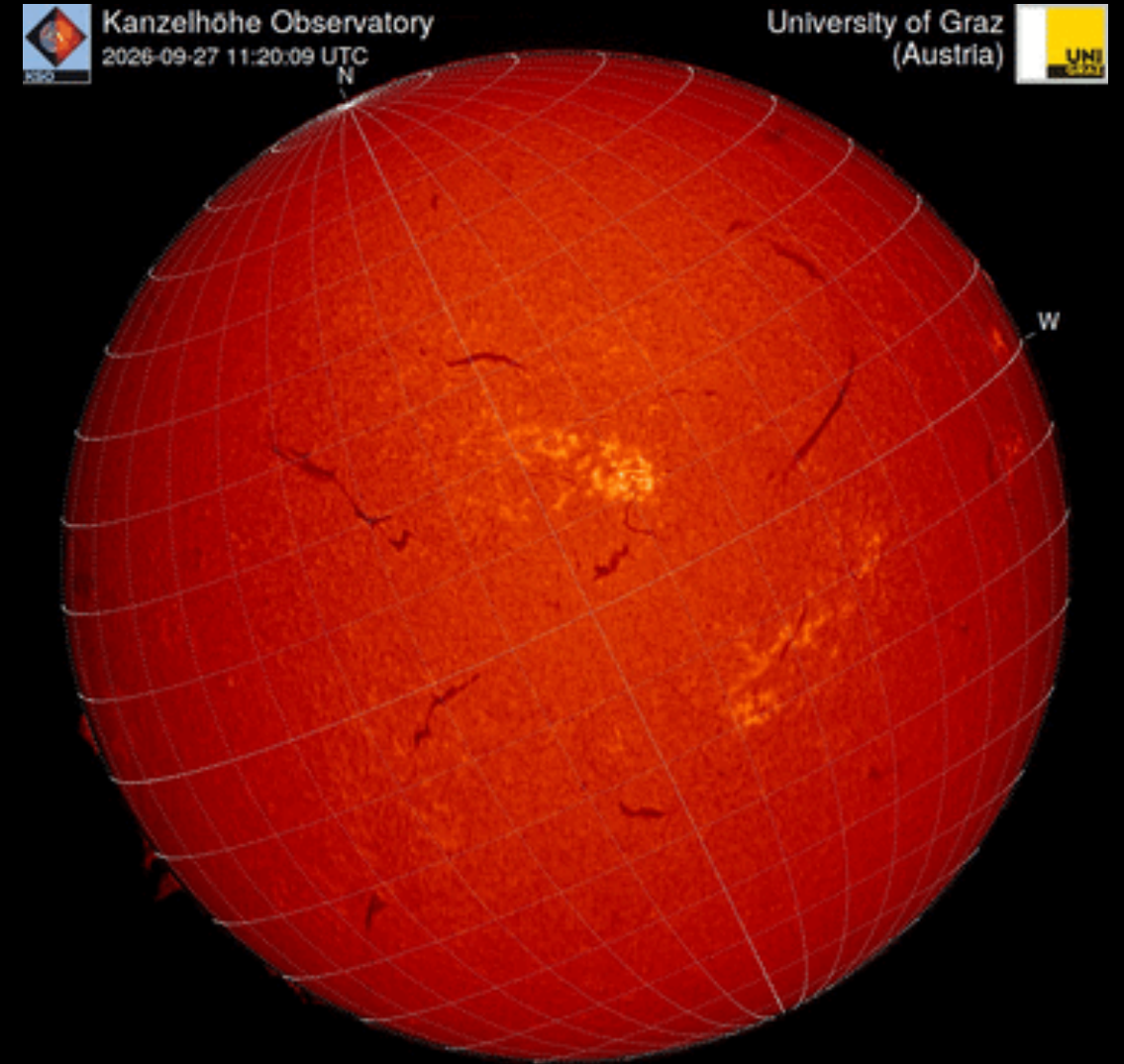
SDO/AIA 304 2026-09-28 01:58:30 UT

Filaments & Filament eruptions

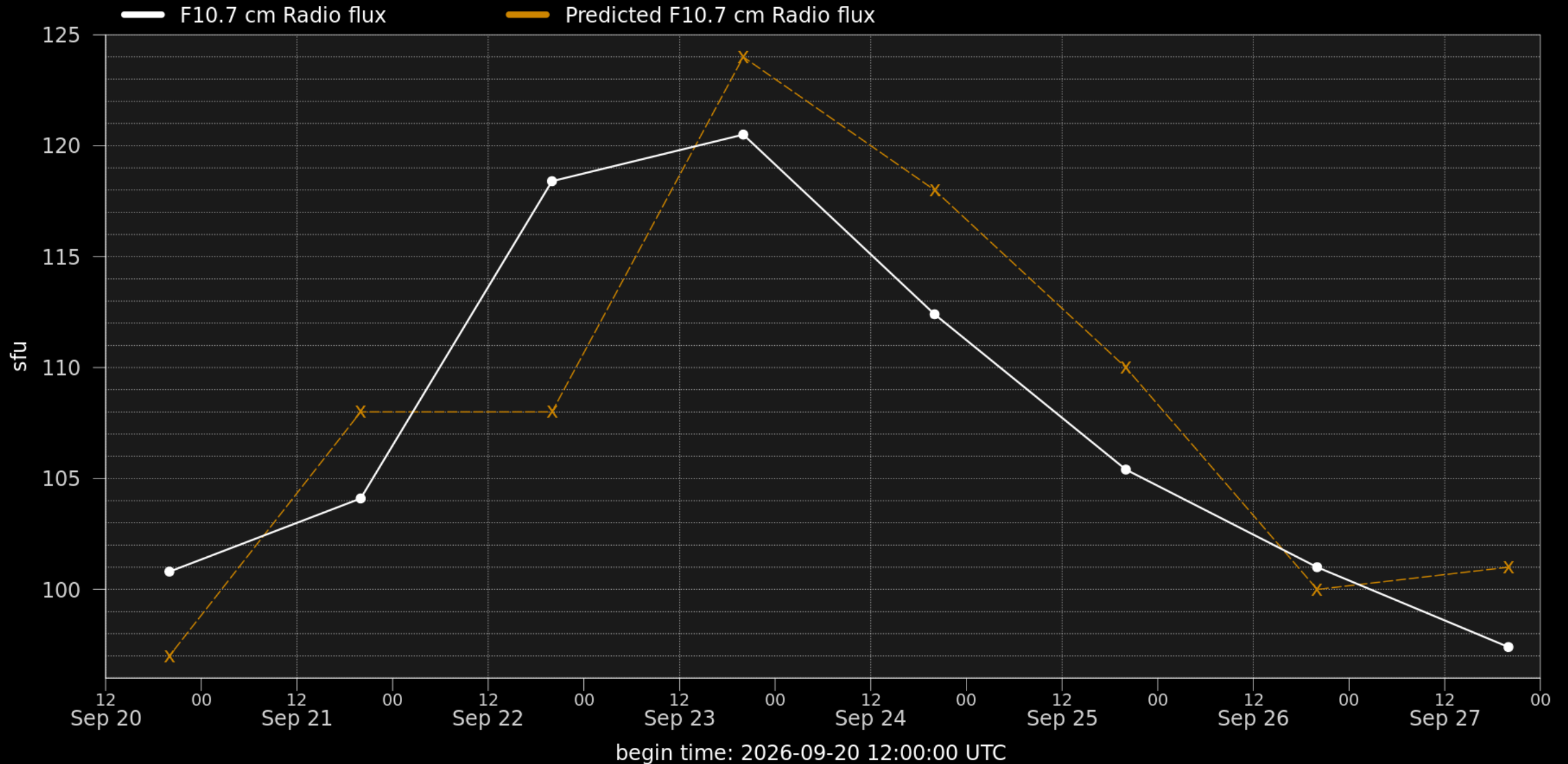
H-alpha 2026-09-21



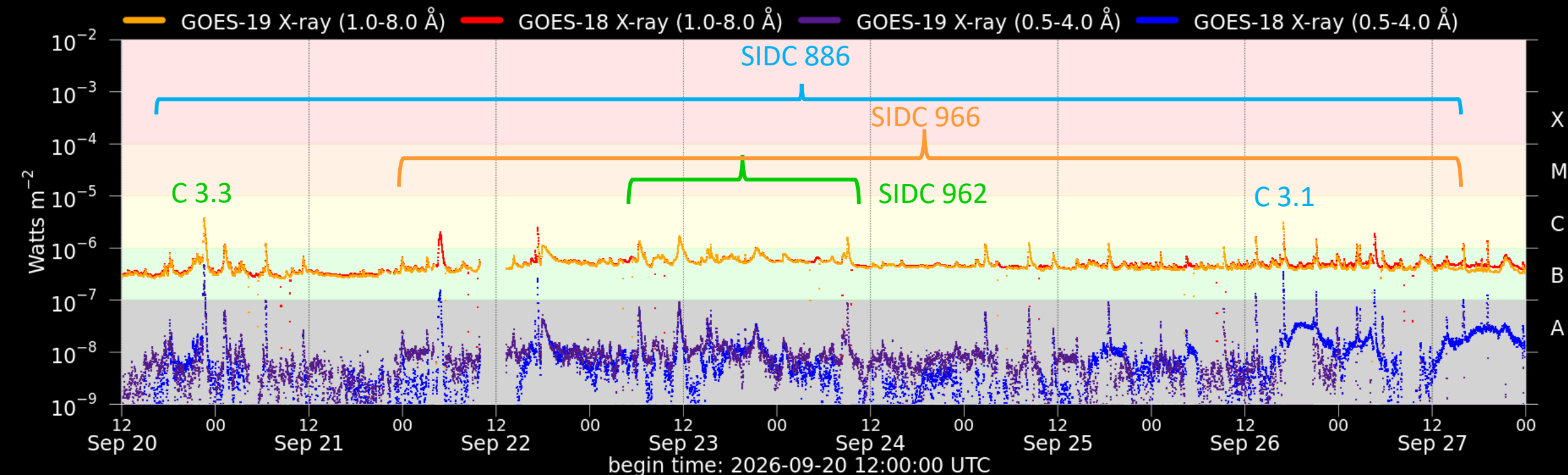
H-alpha 2026-09-27



Solar F10.7cm radio flux



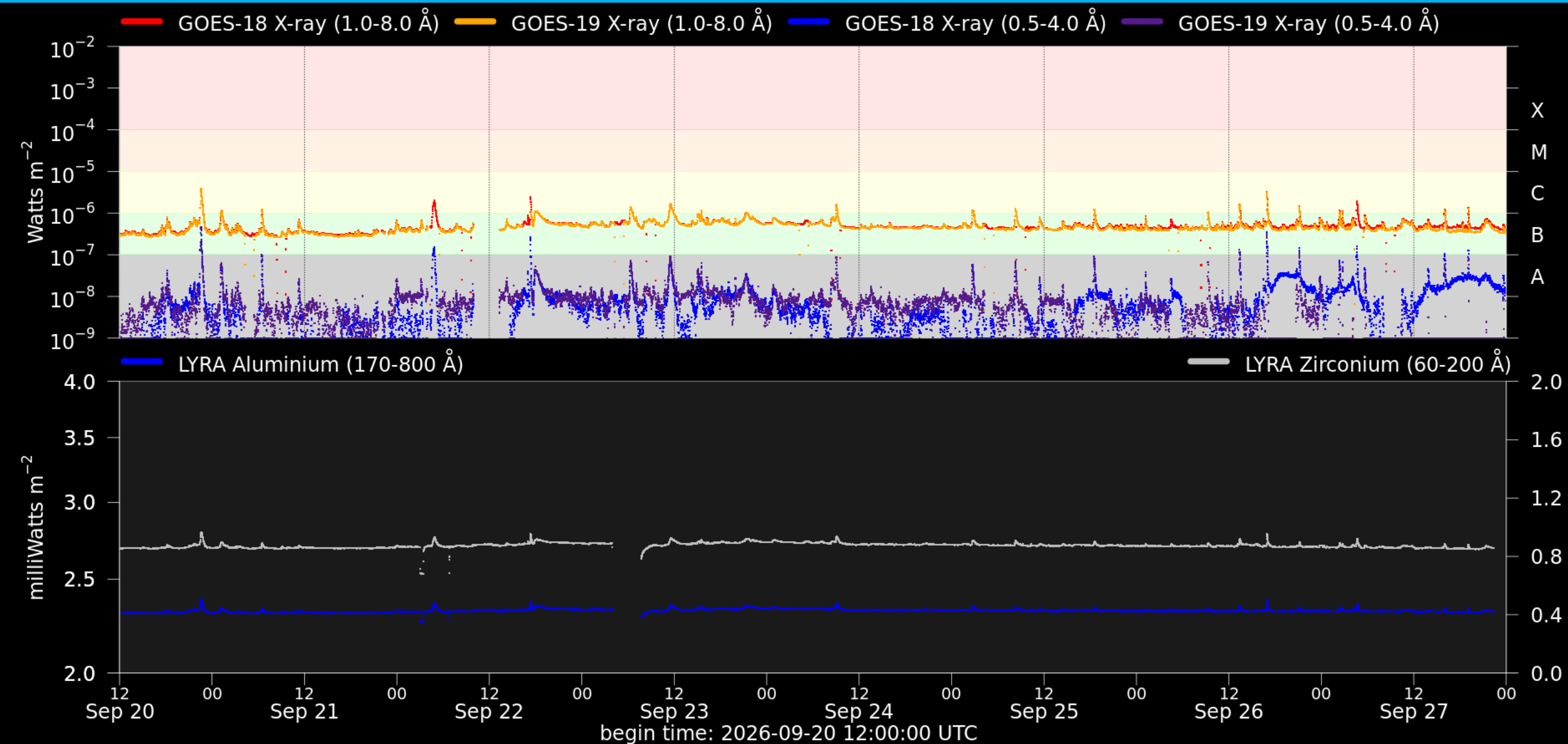
Flaring activity



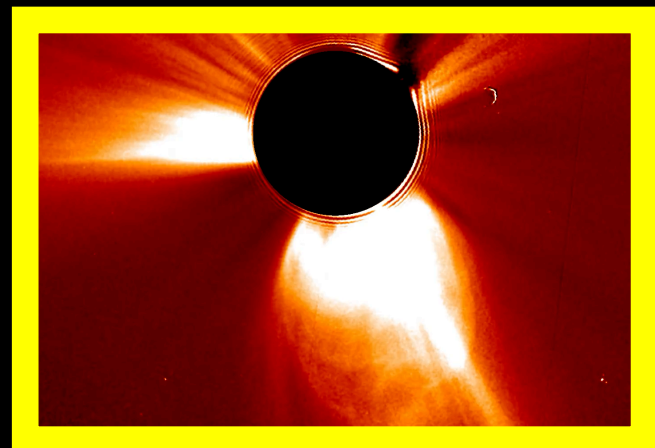
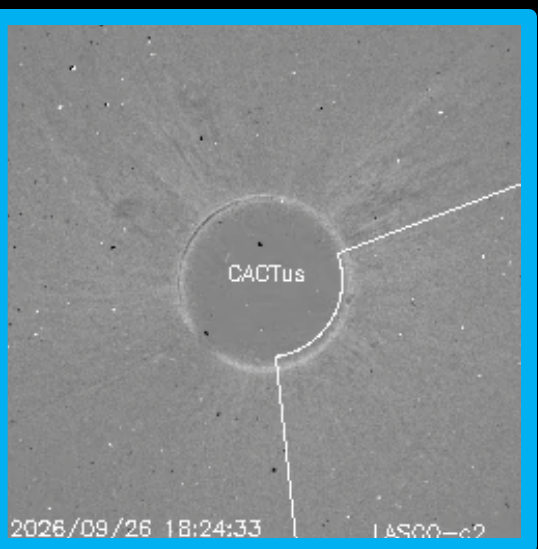
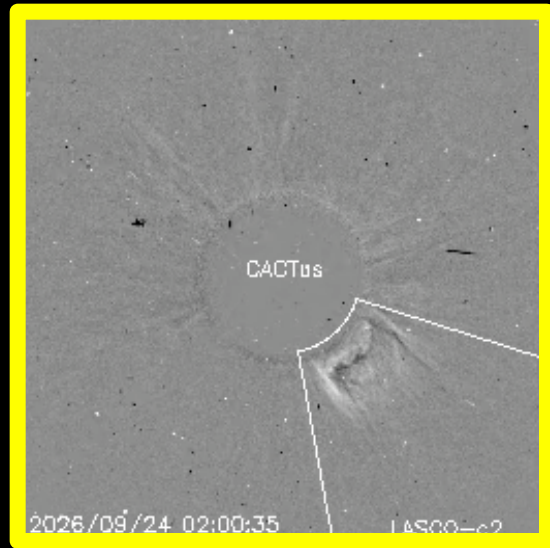
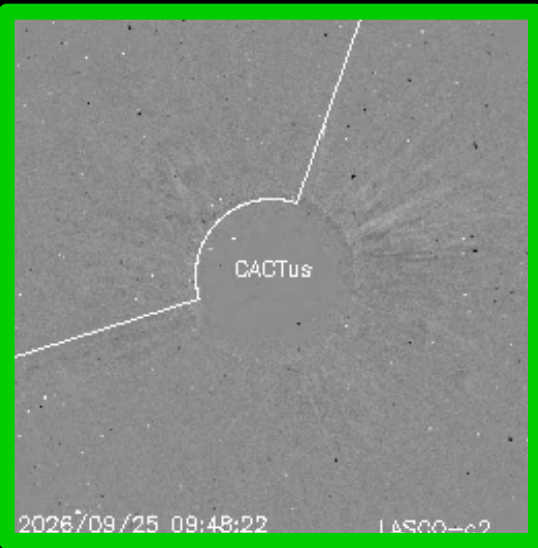
Probabilities (%) and occurrences (#) of C/M/X-flares daily, from noon to noon:

Issue date	2026-09-20	2026-09-21	2026-09-22	2026-09-23	2026-09-24	2026-09-25	2026-09-26	2026-09-27
Probability (%)	71 11 01	74 17 01	93 33 01	97 45 01	91 31 01	83 19 01	75 10 01	65 10 01
Observed (#)	04 00 00	01 00 00	04 00 00	00 00 00	01 00 00	01 00 00	06 00 00	02 00 00

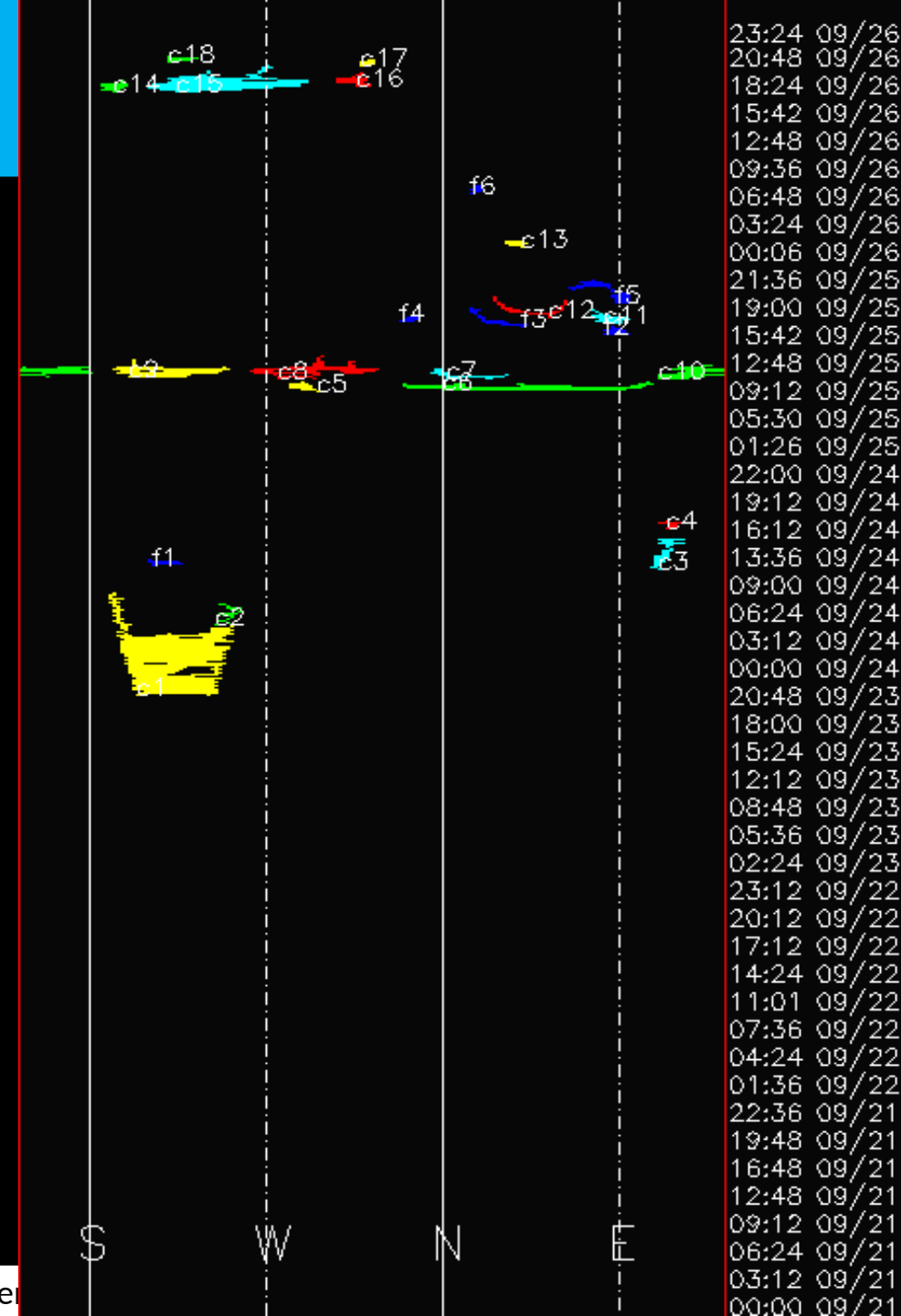
Solar X-Ray and UV flux



Coronal Mass Ejections



STEREO-A COR2



Solar Wind and

Geomagnetic Activity



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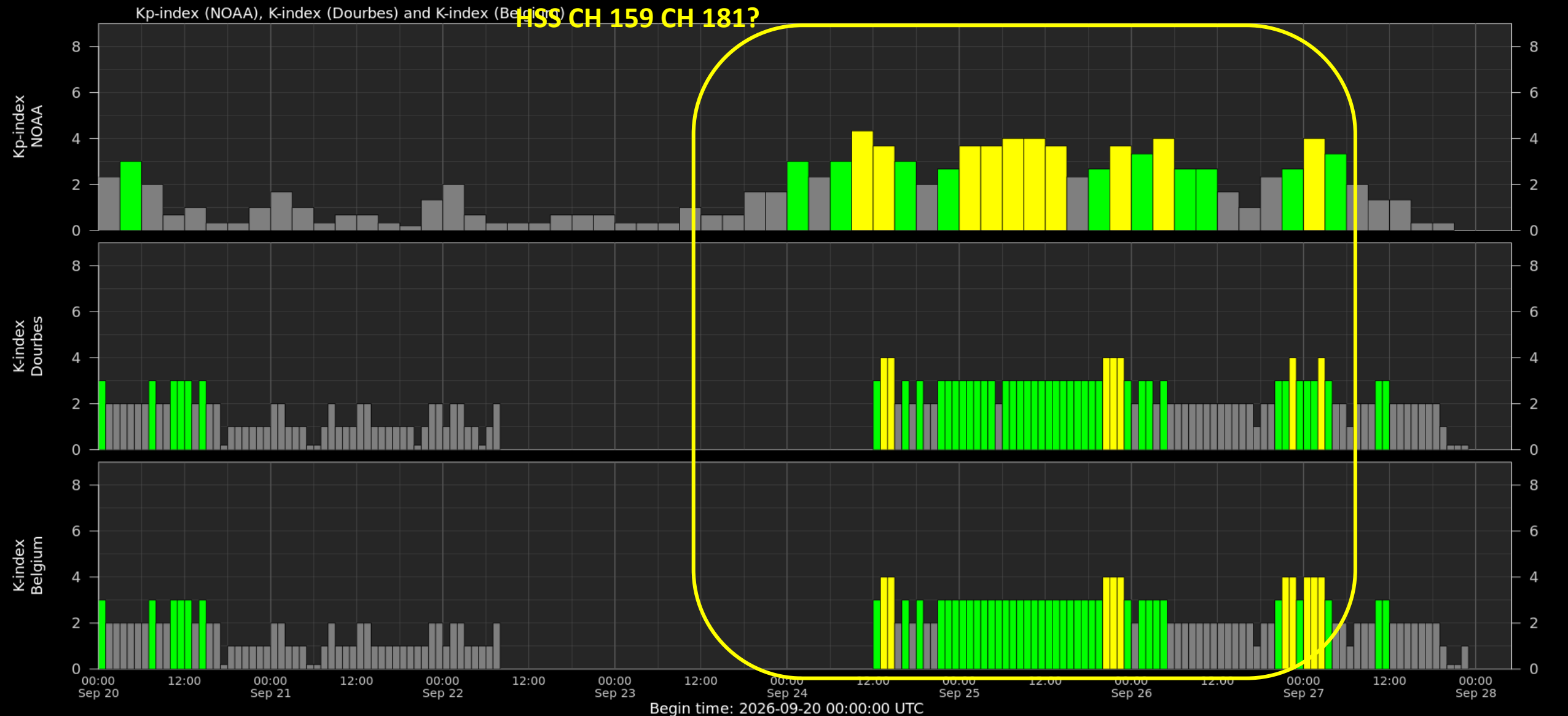
Solar wind parameters



Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)



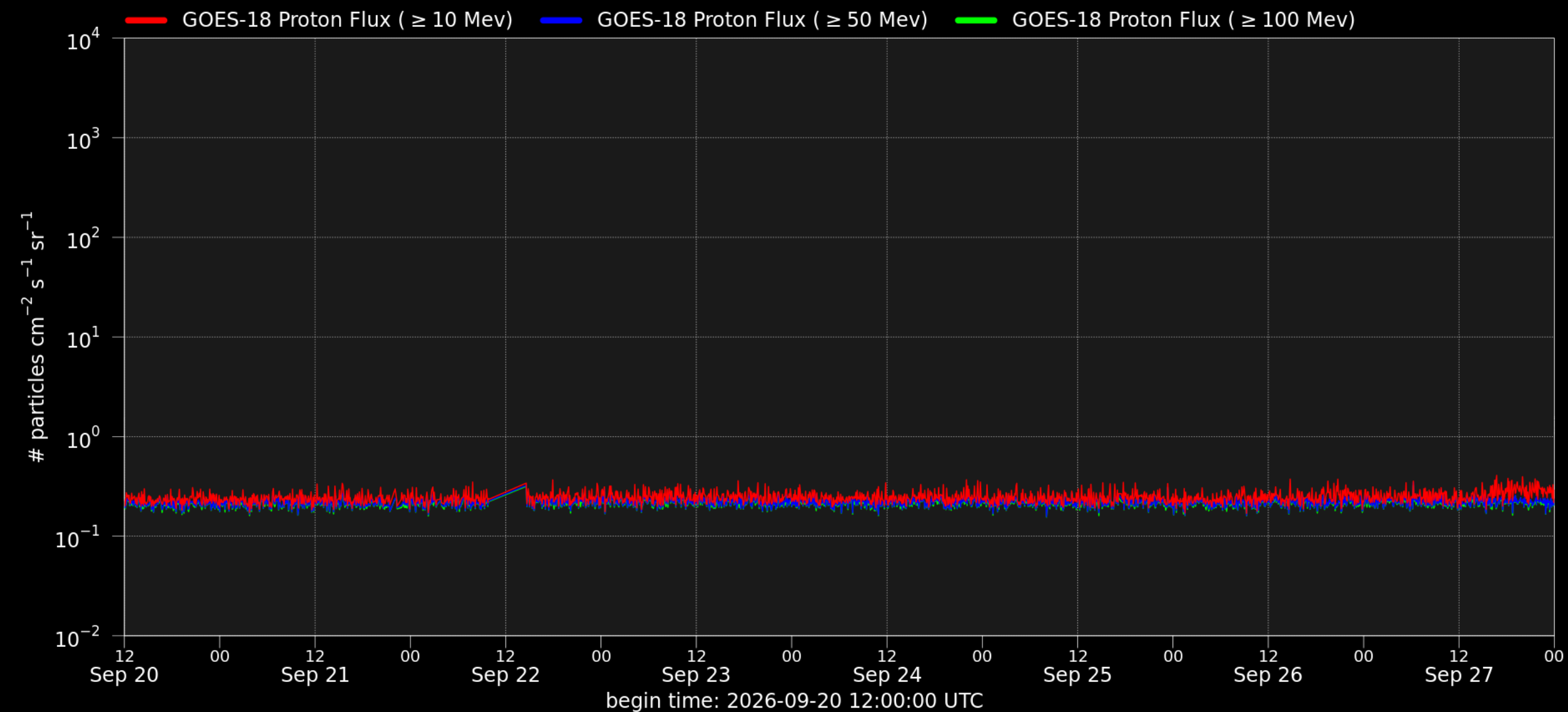
Energetic Particles



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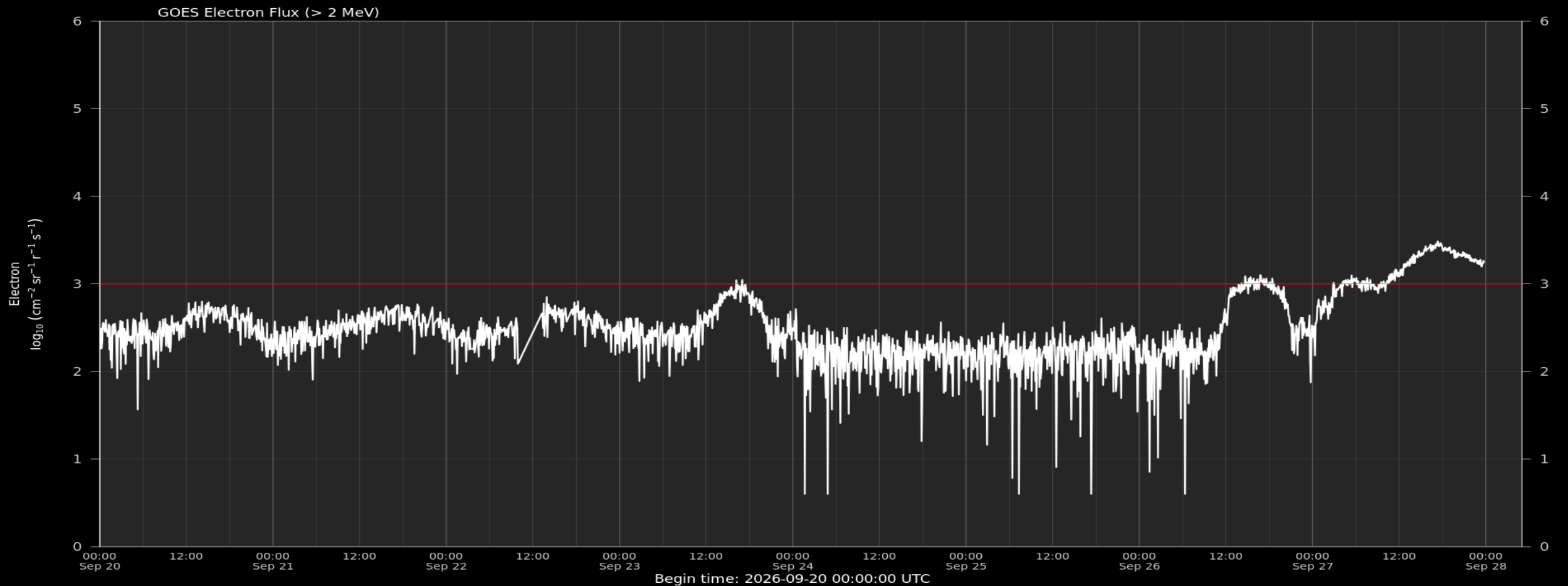
Solar proton flux



Electron flux at GEO

www.stce.be/educational/classification#electrons

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



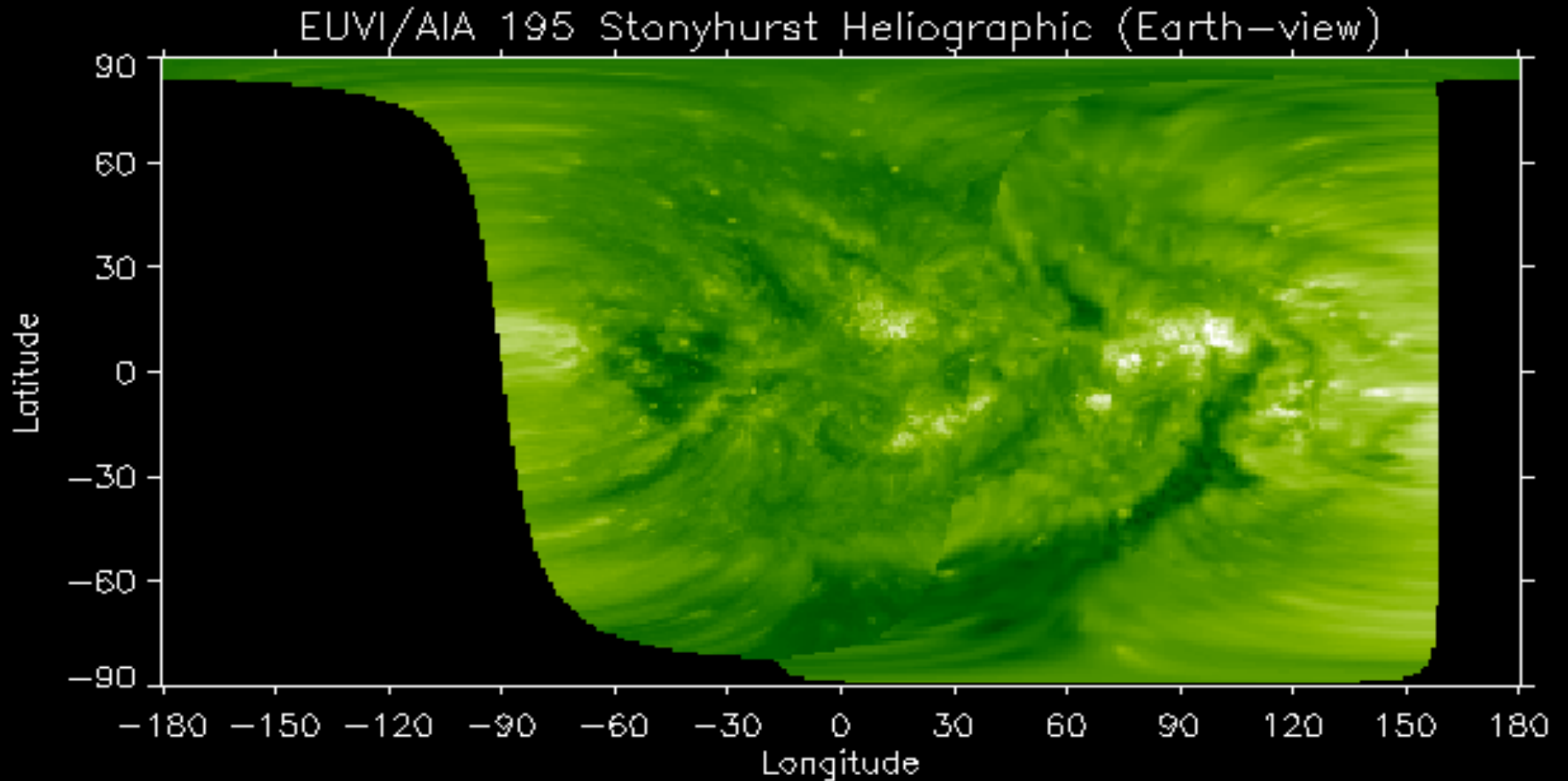
Outlook



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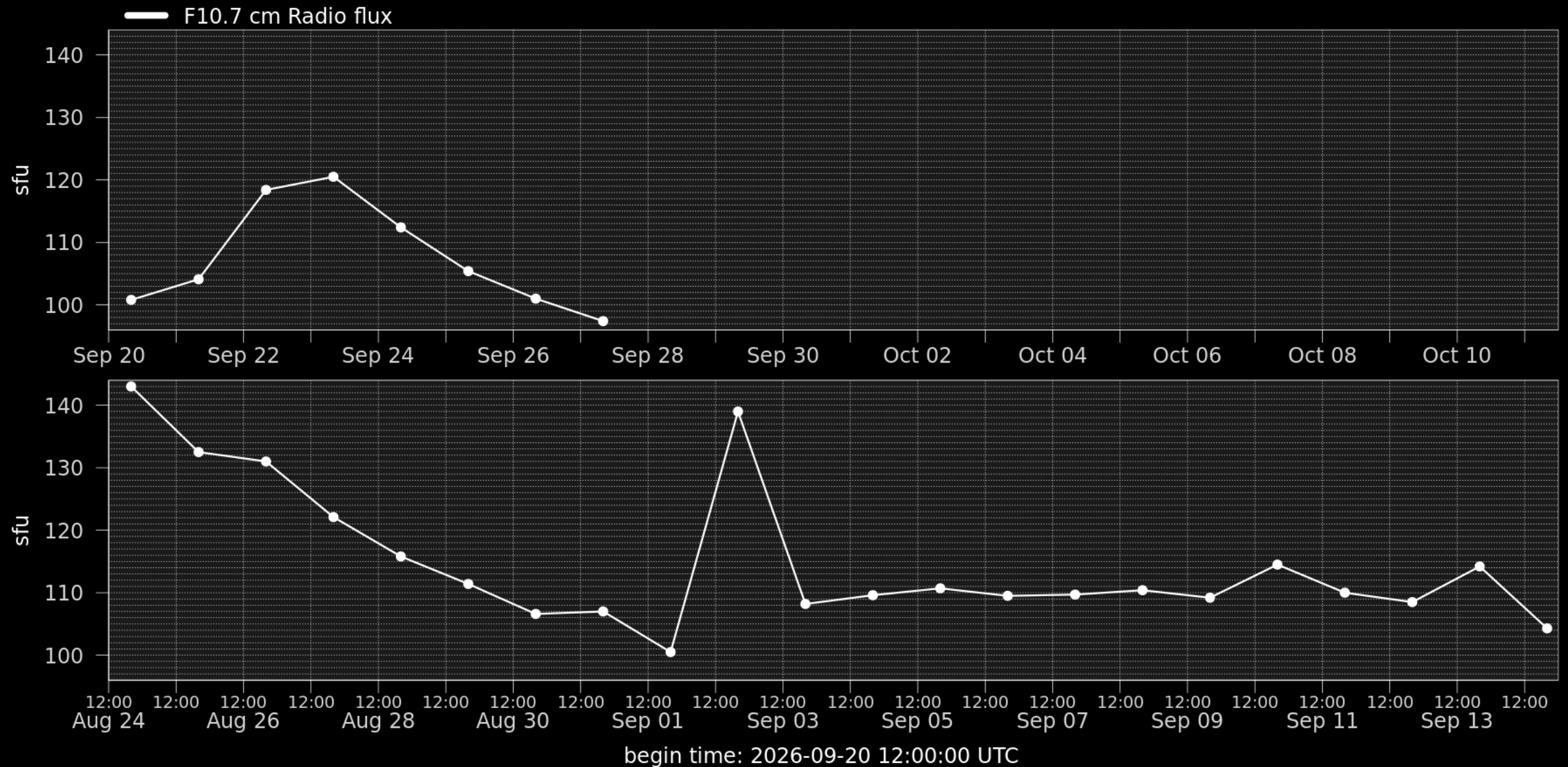
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Outlook: Solar activity

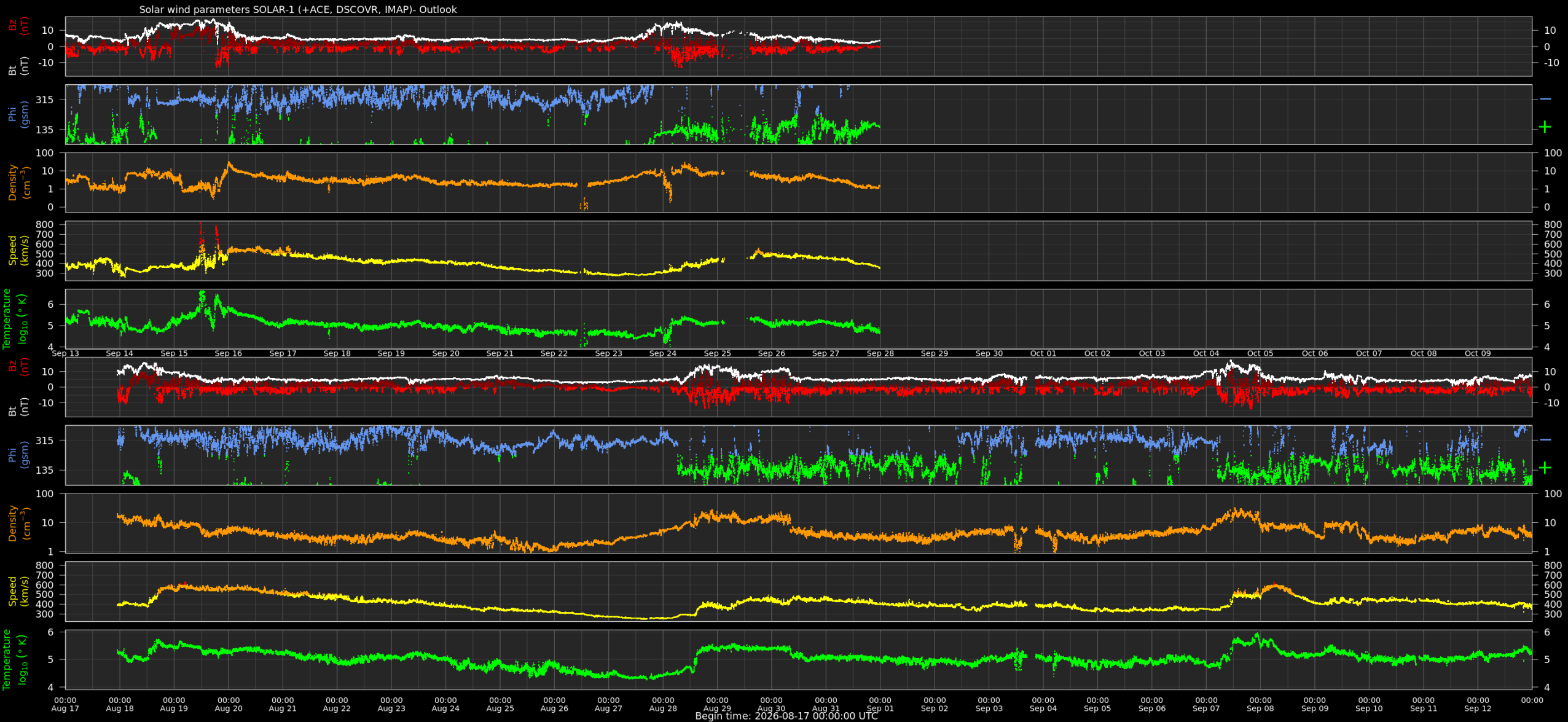


Observation date: 2026/09/27 19:05:00

Outlook: Solar F10.7cm radio flux



Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS



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Pecarus related events

GNSS advisories:

- GNSS phase SEV - 24/Sep/2026 - Polar patches

SIDC Space Weather Briefing

See you at our next briefing!

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