

SIDC Space Weather Briefing

05 October 2026-11 October 2026

Yana Maneva

& the SIDC forecaster team



Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2026-10-05 00:00 to 2026-10-11 23:59

Active regions	10 ARs
Flares	# C-class flare: 33 # M-class flare: 7 # X-class flare: 0
Coronal Holes	Small CH+, 2 large CH-
CMEs	multiple partial halo

Proton flux	Nominal levels
Electron flux	Significantly > 1000 pfu for several days

Solar wind and geomagnetic conditions

ICMEs	strong arrival on October 10
Solar wind conditions	B : 1.23 - 46.02 nT// Bz: -28.89 nT to 34.29 nT// Speed: 333.0 - 904.2 km/s
Geomagnetic conditions	max K _{BeI} : 7.0, max K _p (NOAA): 7.0, Major Storm conditions

All Quiet Alert: Off (not quiet)

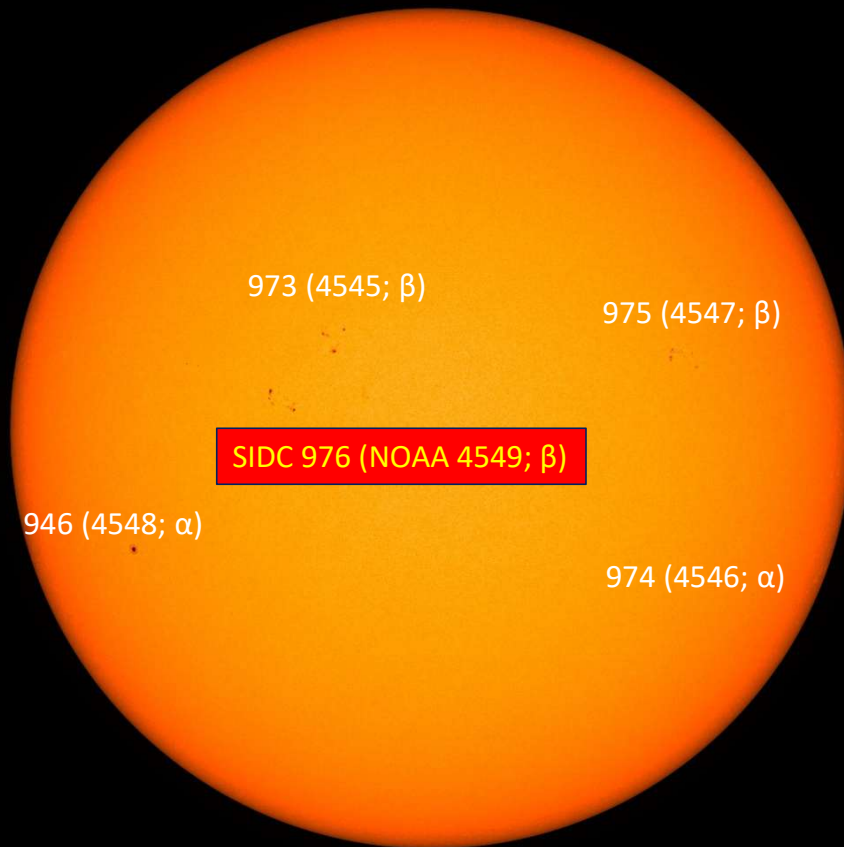
Solar Activity



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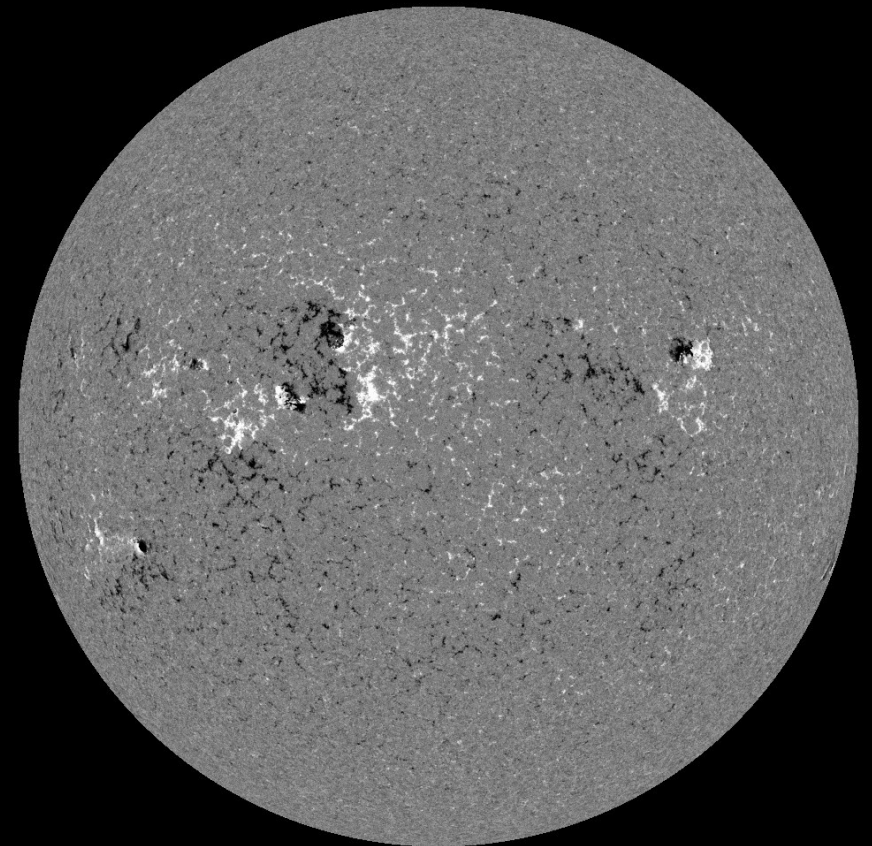
Solar active regions

SDO/HMI White Light 2026-10-05



SDO/HMI Continuum: 20261005_120000

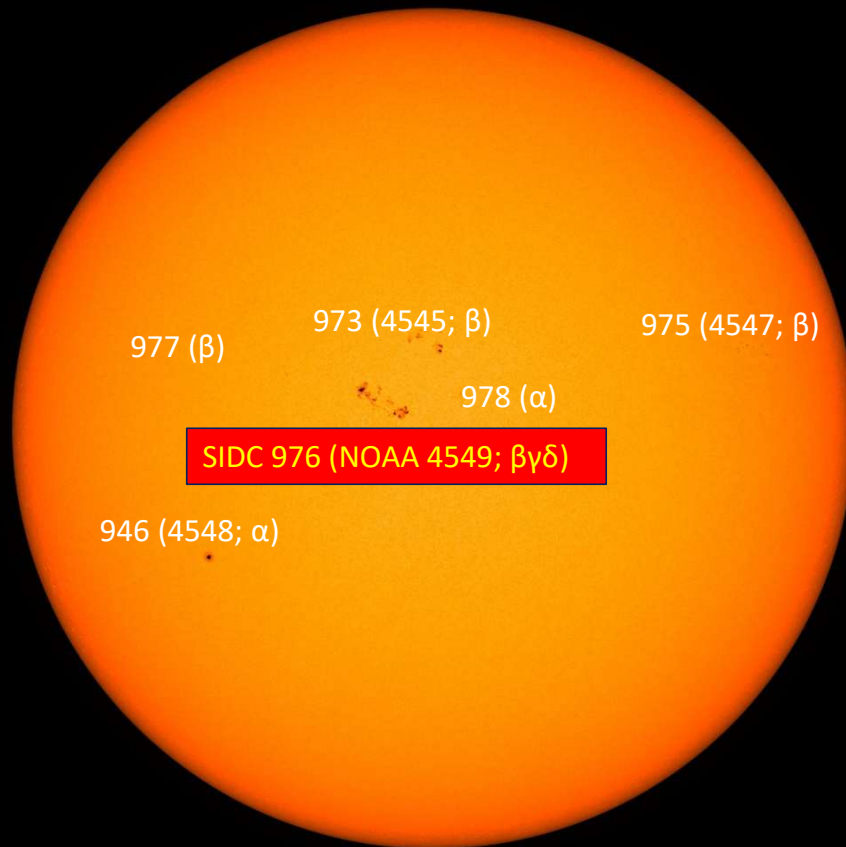
SDO/HMI Magnetogram 2026-10-05



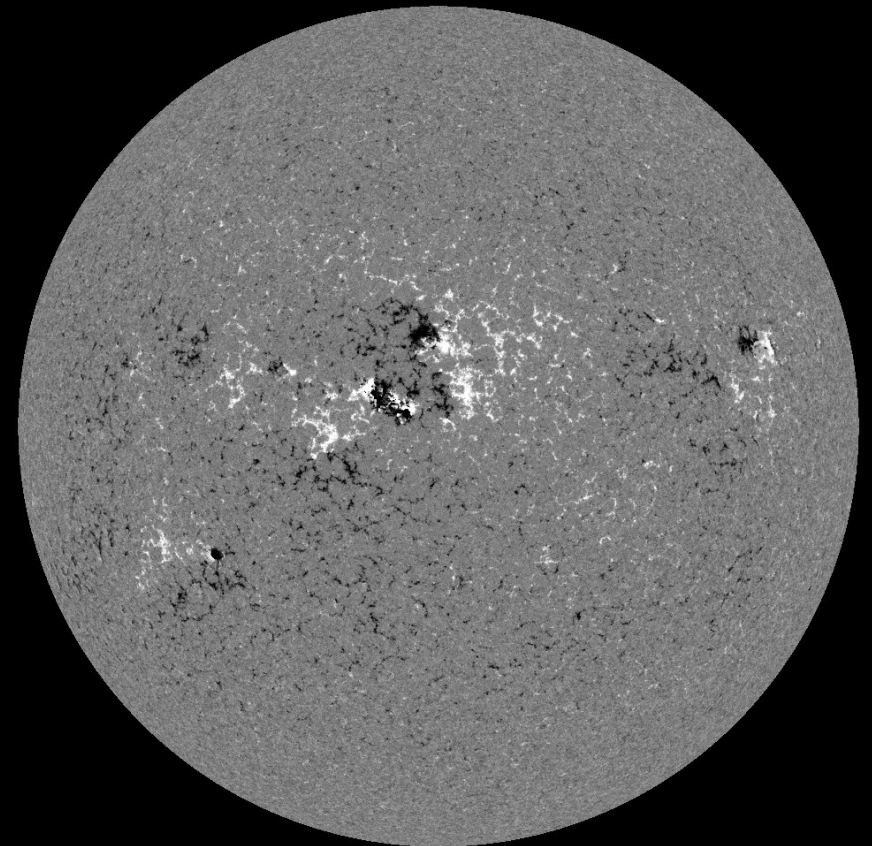
SDO/HMI Magnetogram: 20261005_120000

Solar active regions

SDO/HMI White Light 2026-10-06

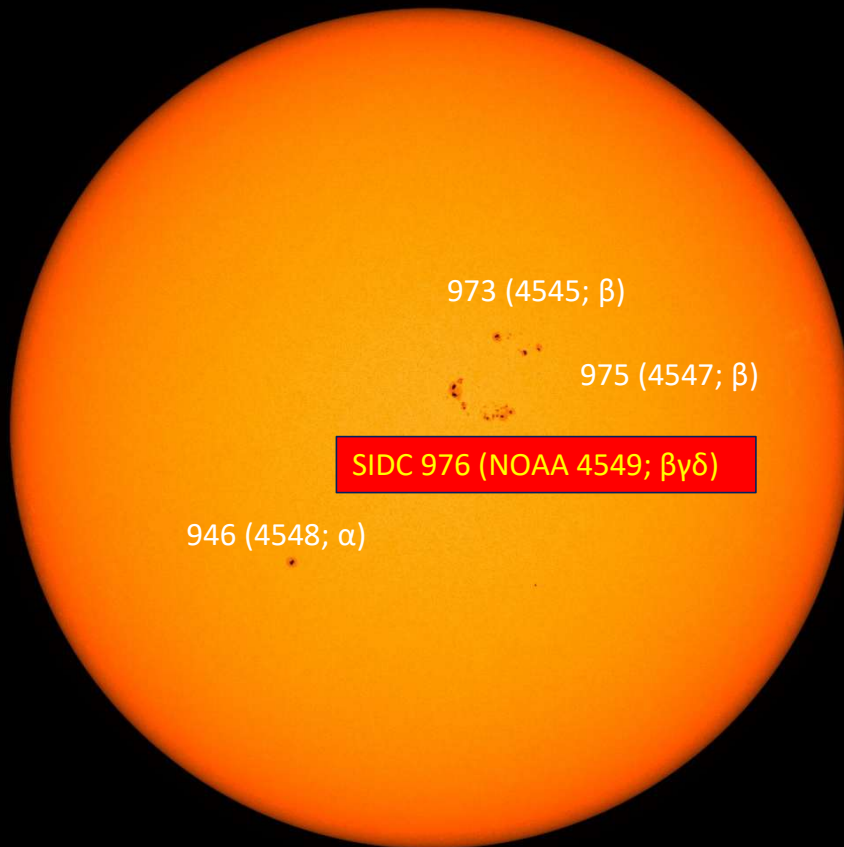


SDO/HMI Magnetogram 2026-10-06

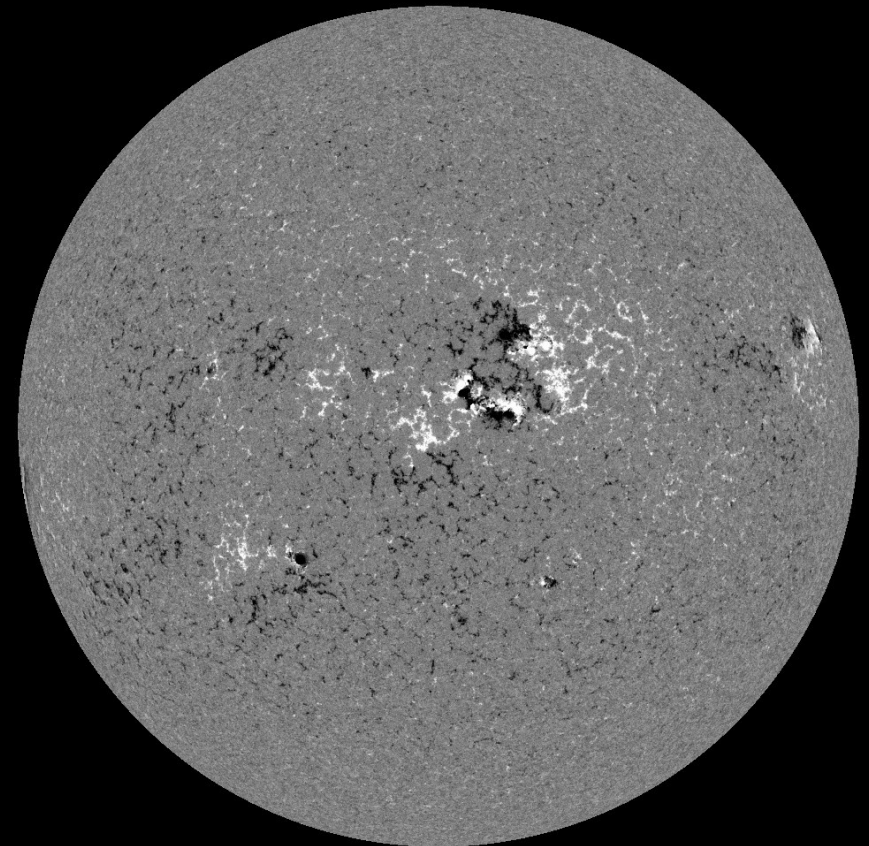


Solar active regions

SDO/HMI White Light 2026-10-07

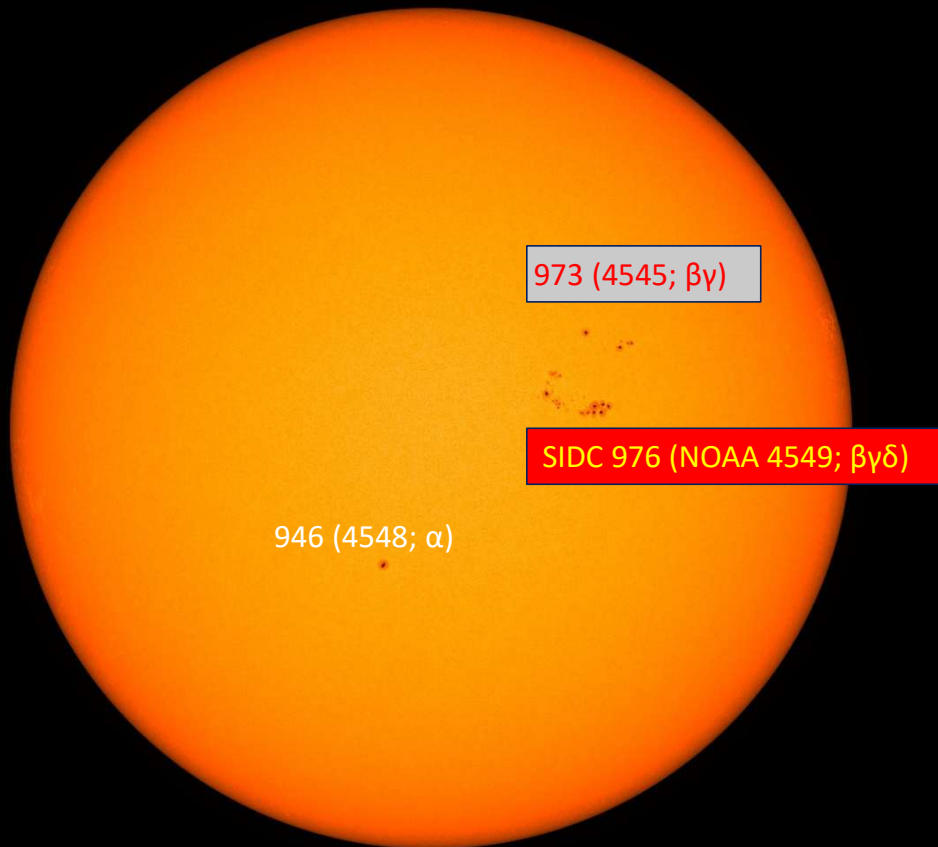


SDO/HMI Magnetogram 2026-10-07

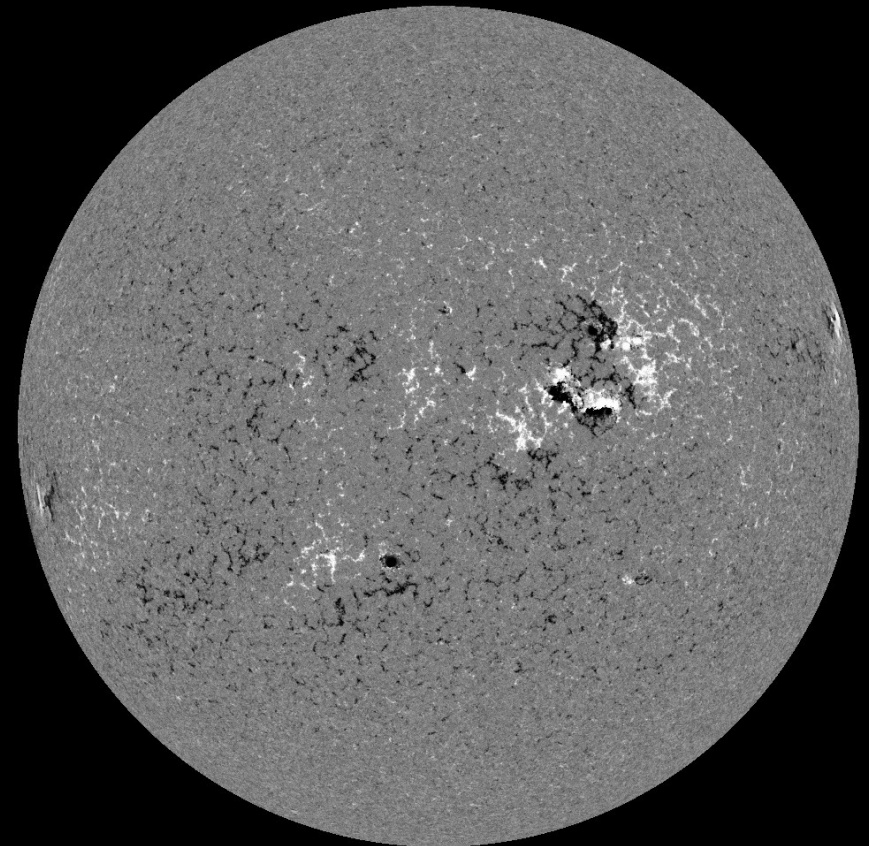


Solar active regions

SDO/HMI White Light 2026-10-08

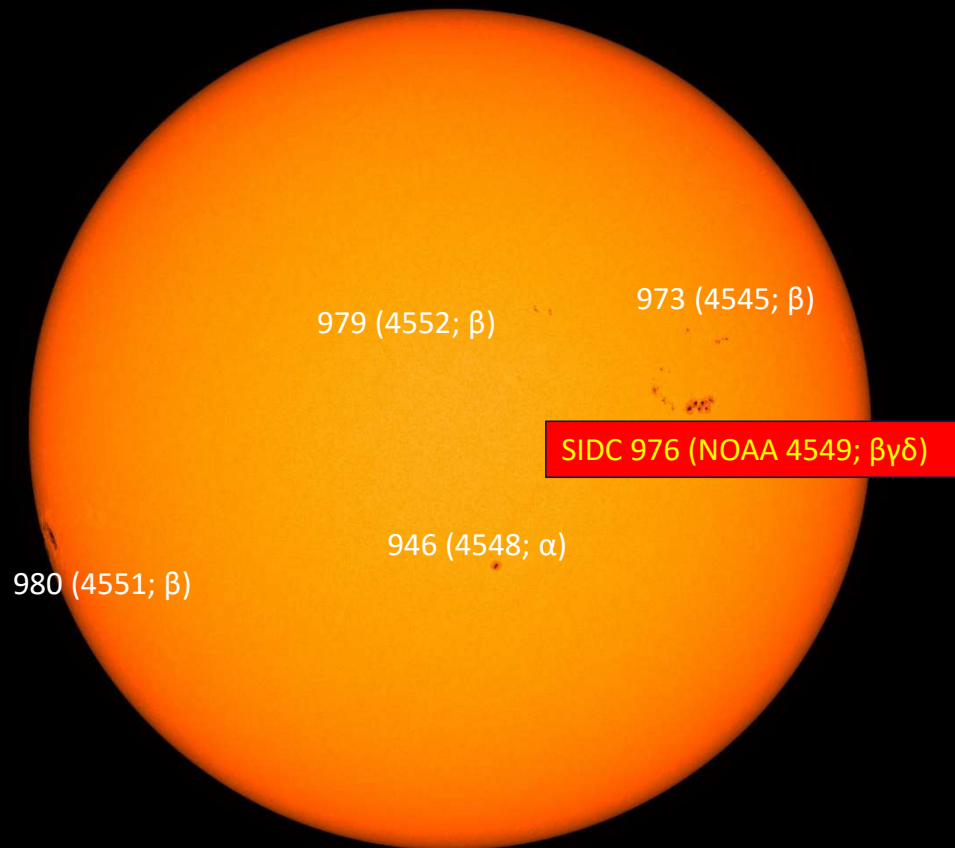


SDO/HMI Magnetogram 2026-10-08

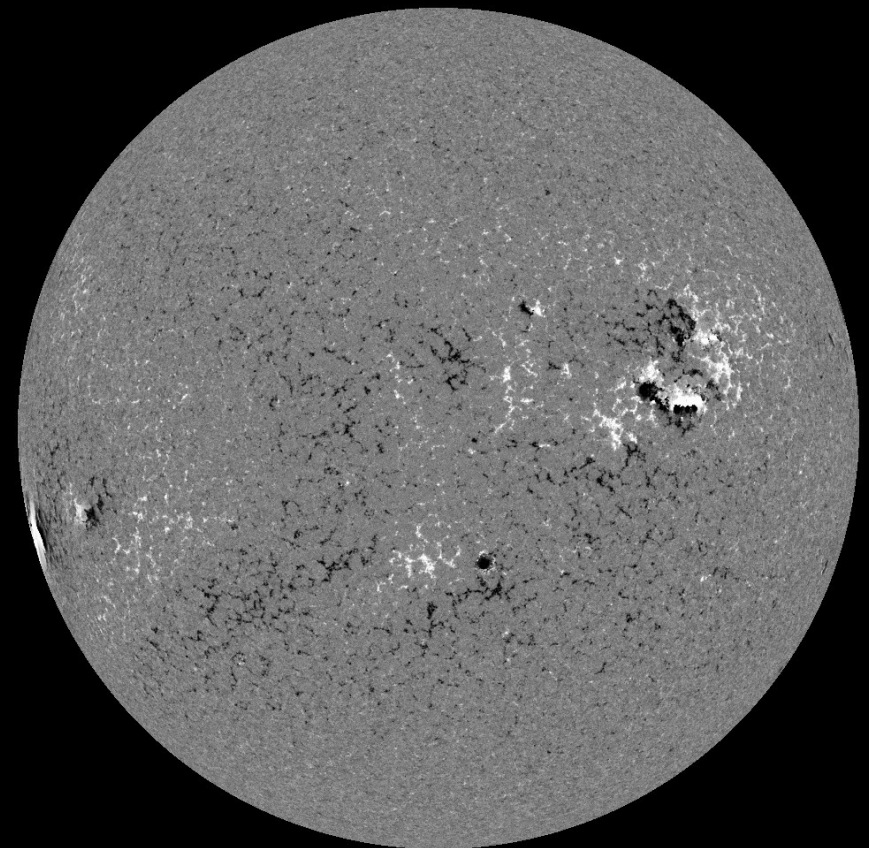


Solar active regions

SDO/HMI White Light 2026-10-09

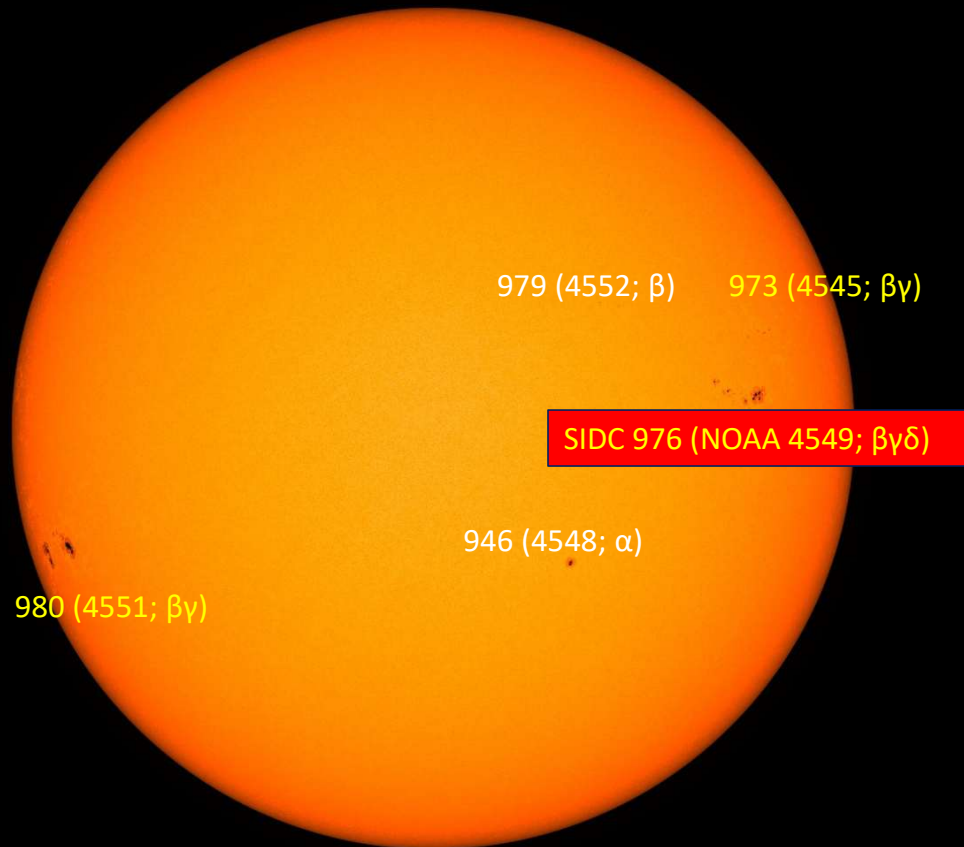


SDO/HMI Magnetogram 2026-10-09

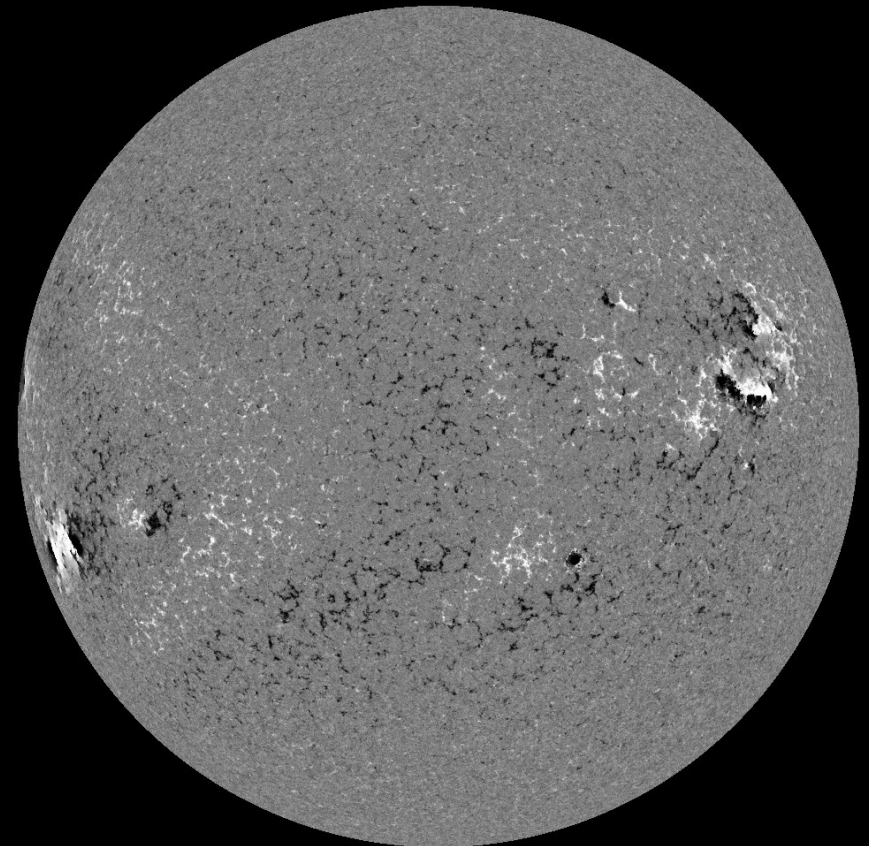


Solar active regions

SDO/HMI White Light 2026-10-10

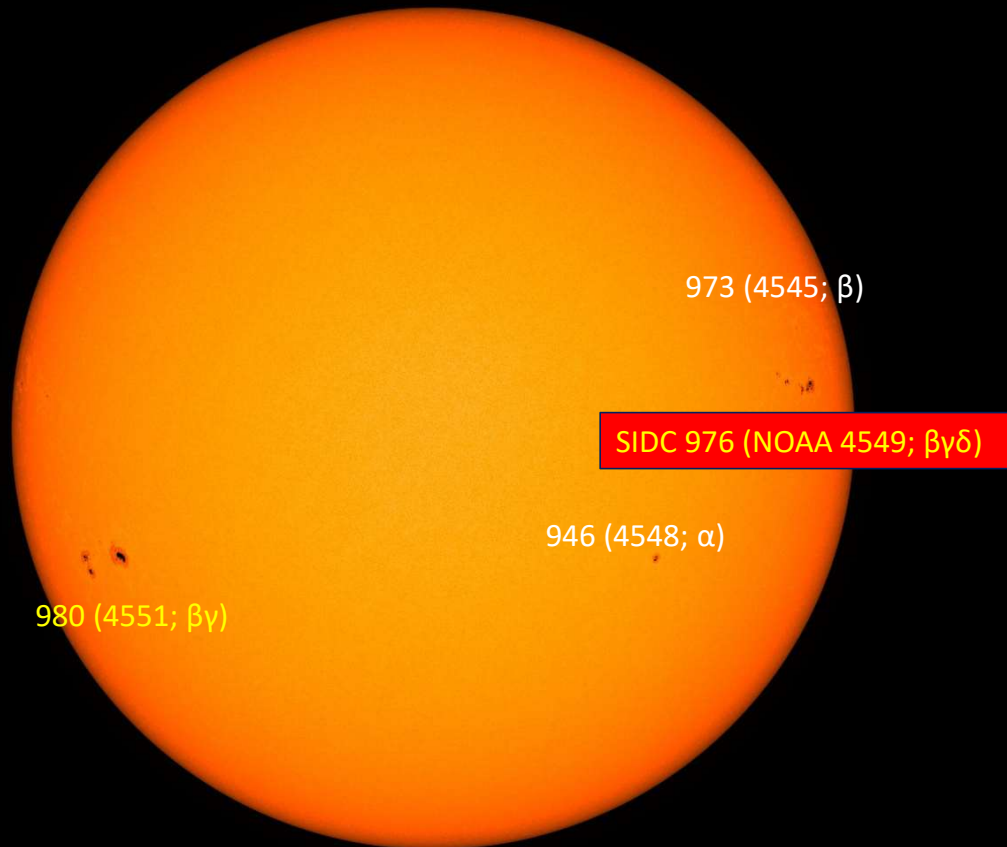


SDO/HMI Magnetogram 2026-10-10

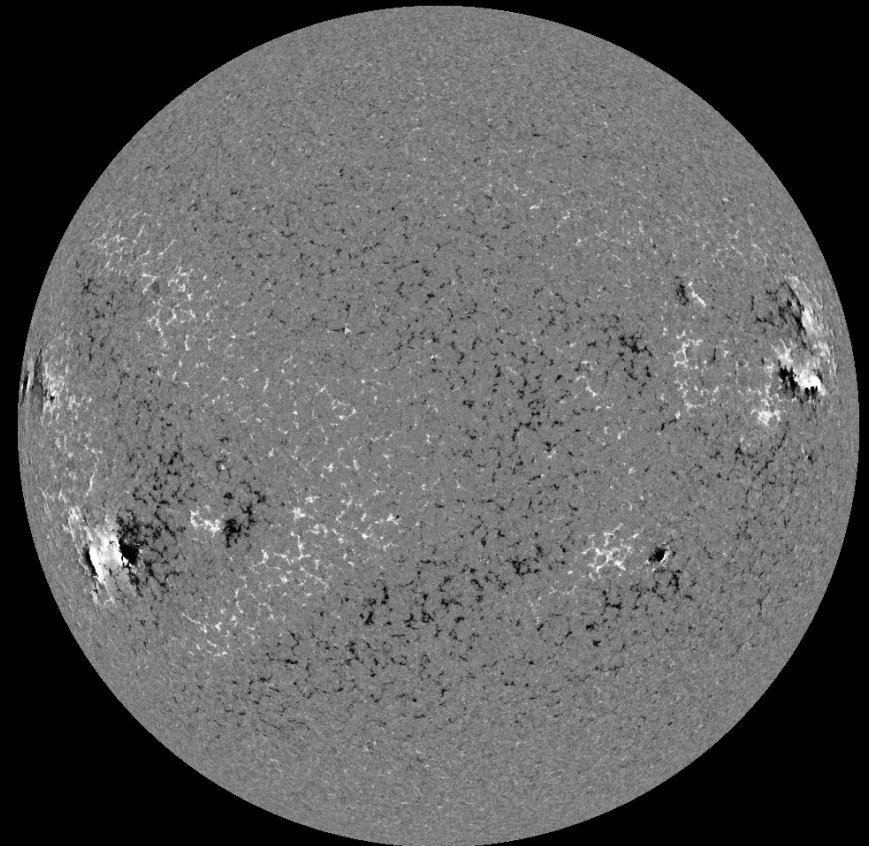


Solar active regions

SDO/HMI White Light 2026-10-11

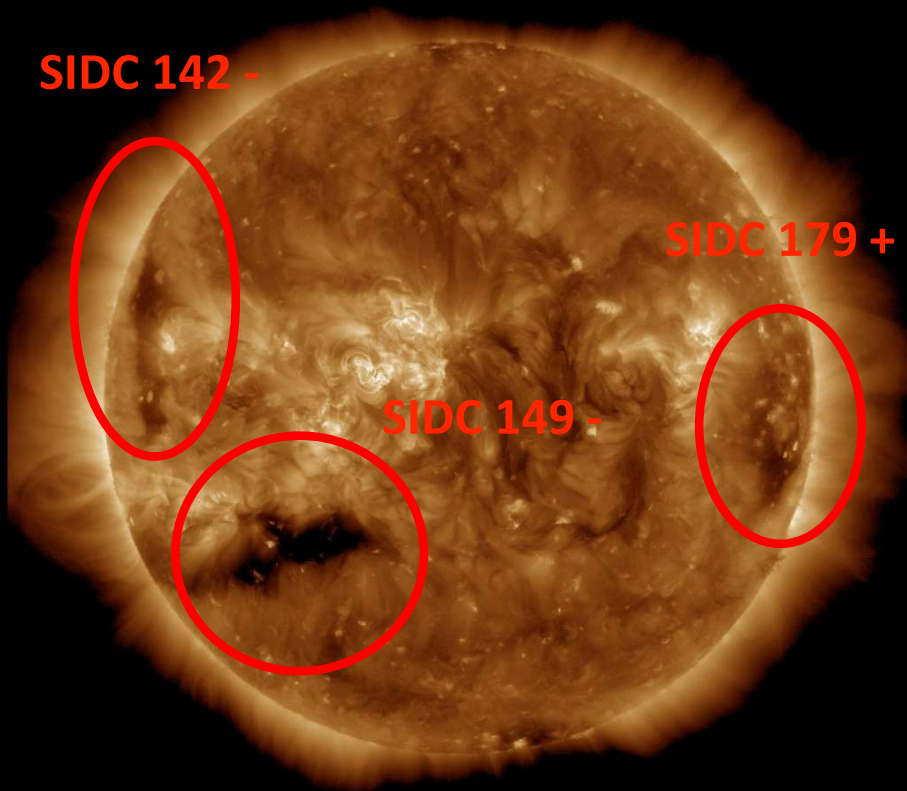


SDO/HMI Magnetogram 2026-10-11



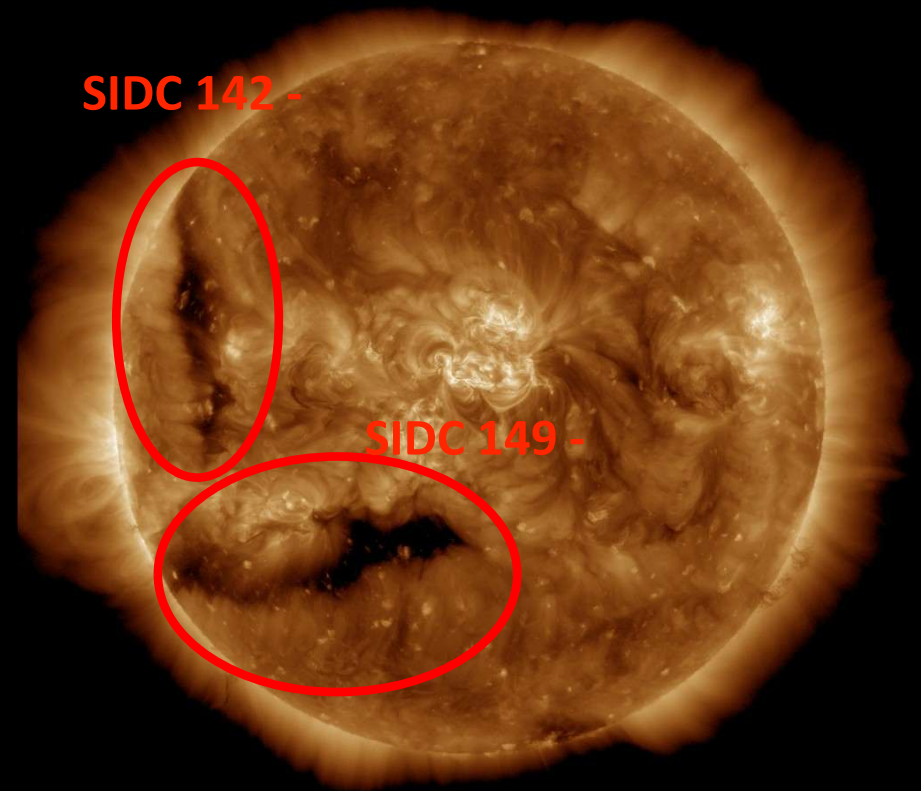
Coronal holes

SDO/AIA 19.3 nm 2026-10-05



SDO/AIA 193 2026-10-05 22:58:29 UT

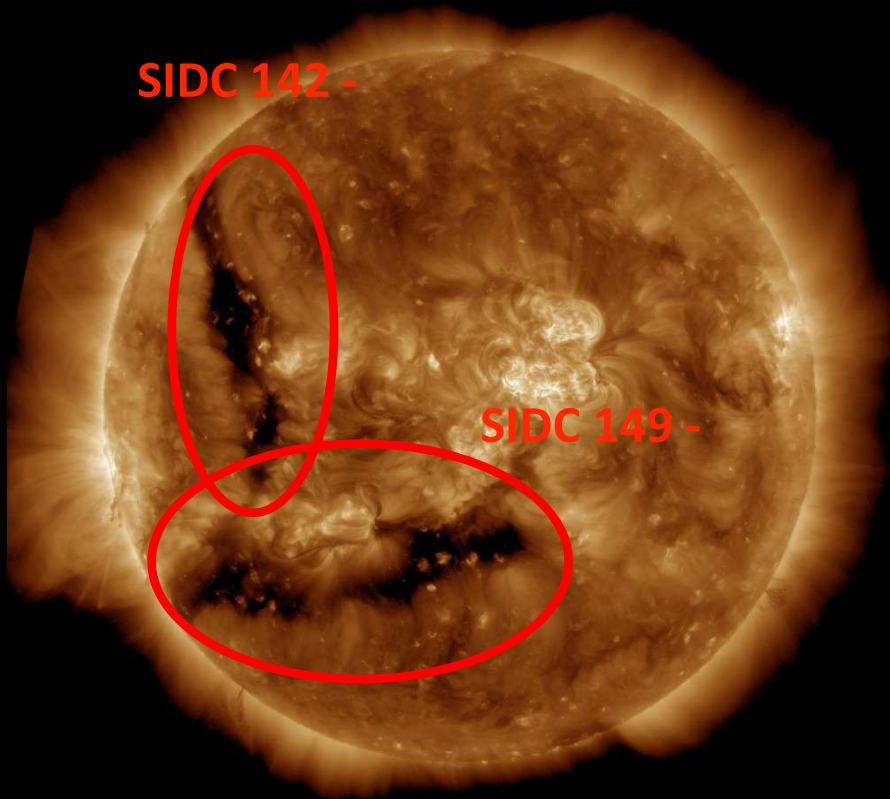
SDO/AIA 19.3 nm 2026-10-06



SDO/AIA 193 2026-10-06 22:56:41 UT

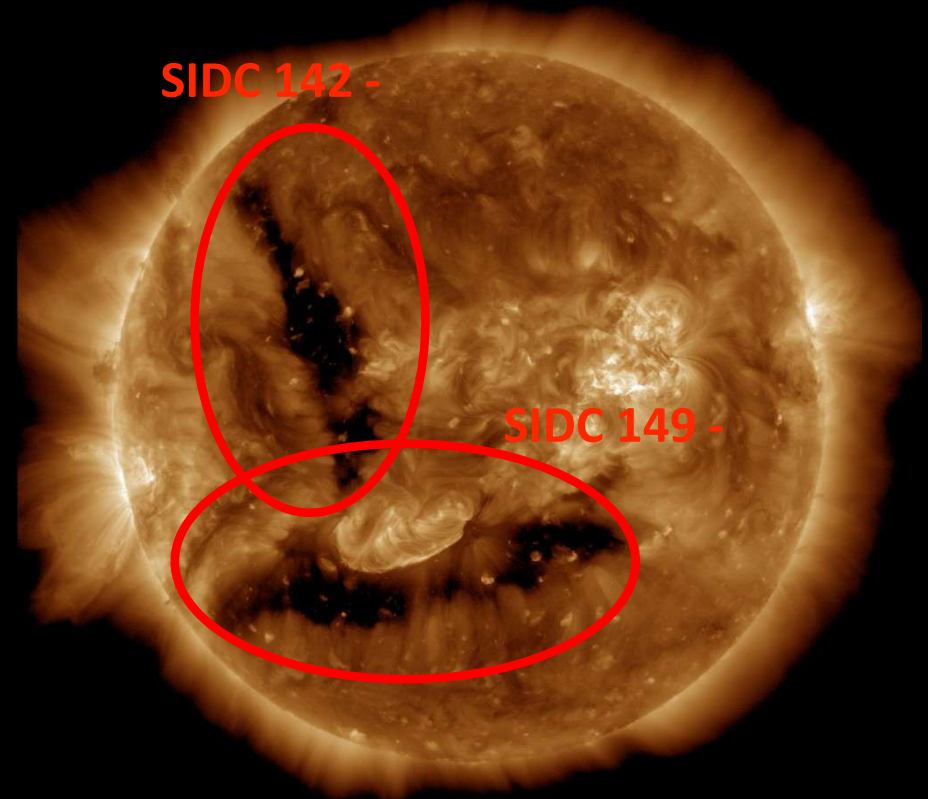
Coronal holes

SDO/AIA 19.3 nm 2026-10-07



SDO/AIA 193 2026-10-07 21:19:54 UT

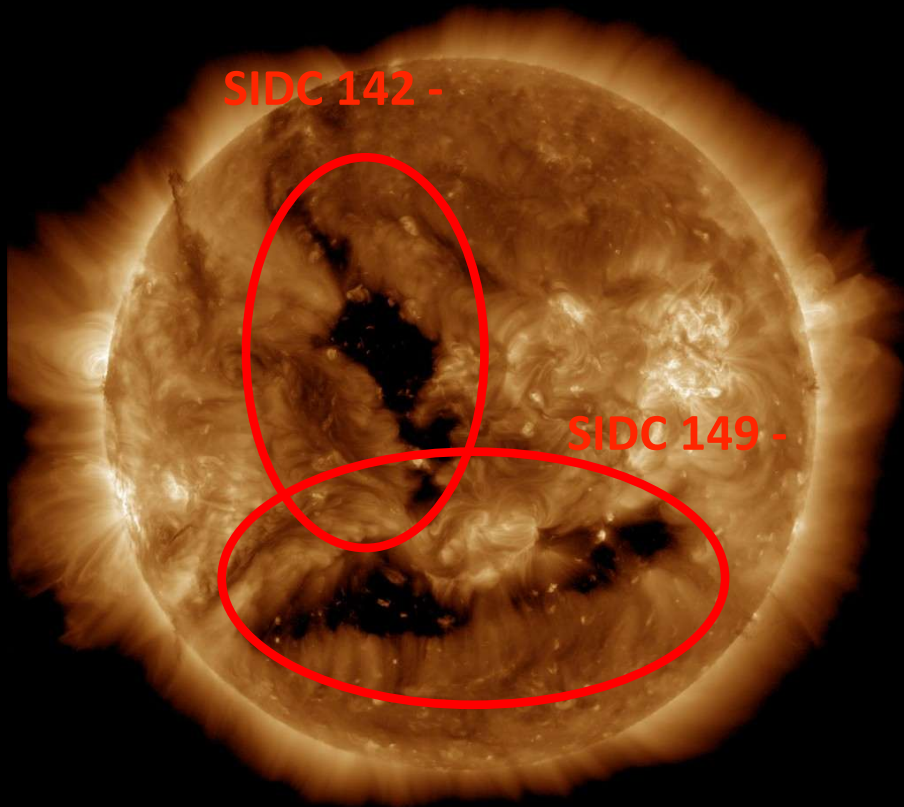
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SDO/AIA 193 2026-10-08 22:58:17 UT

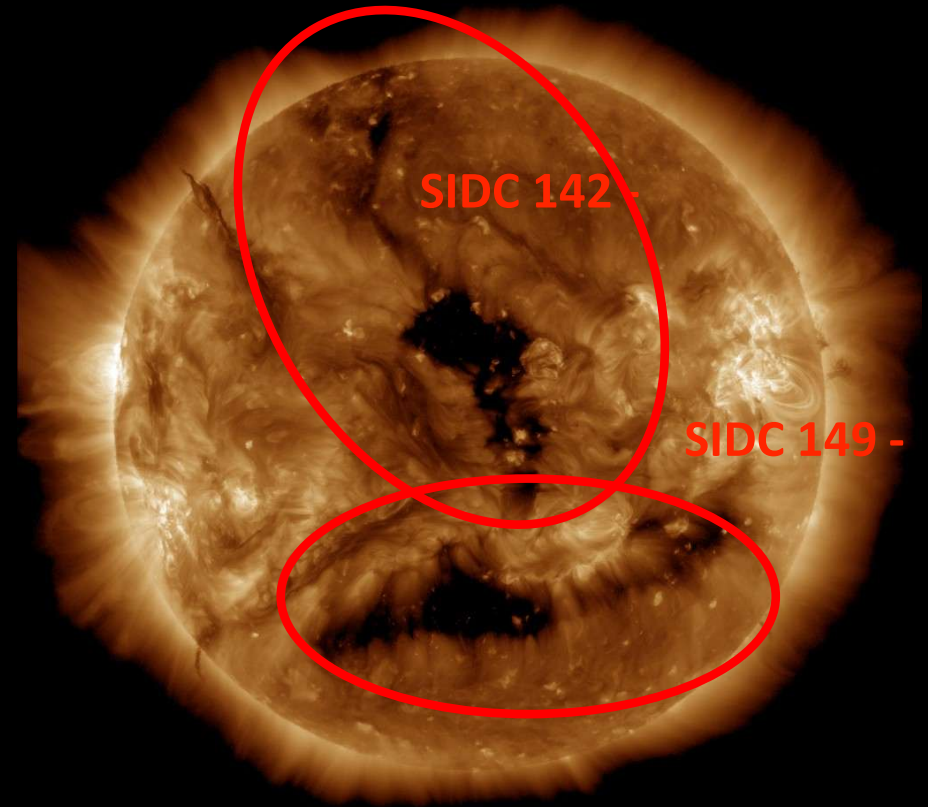
Coronal holes

SDO/AIA 19.3 nm 2026-10-09



SDO/AIA 193 2026-10-09 22:57:41 UT

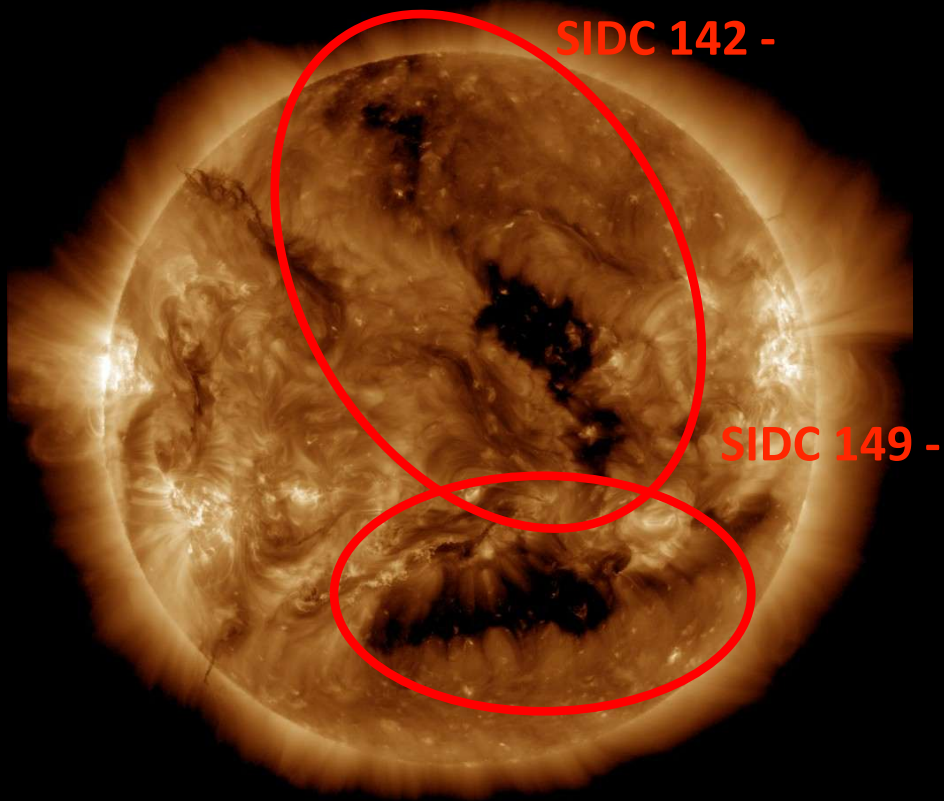
SDO/AIA 19.3 nm 2026-10-10



SDO/AIA 193 2026-10-10 22:57:29 UT

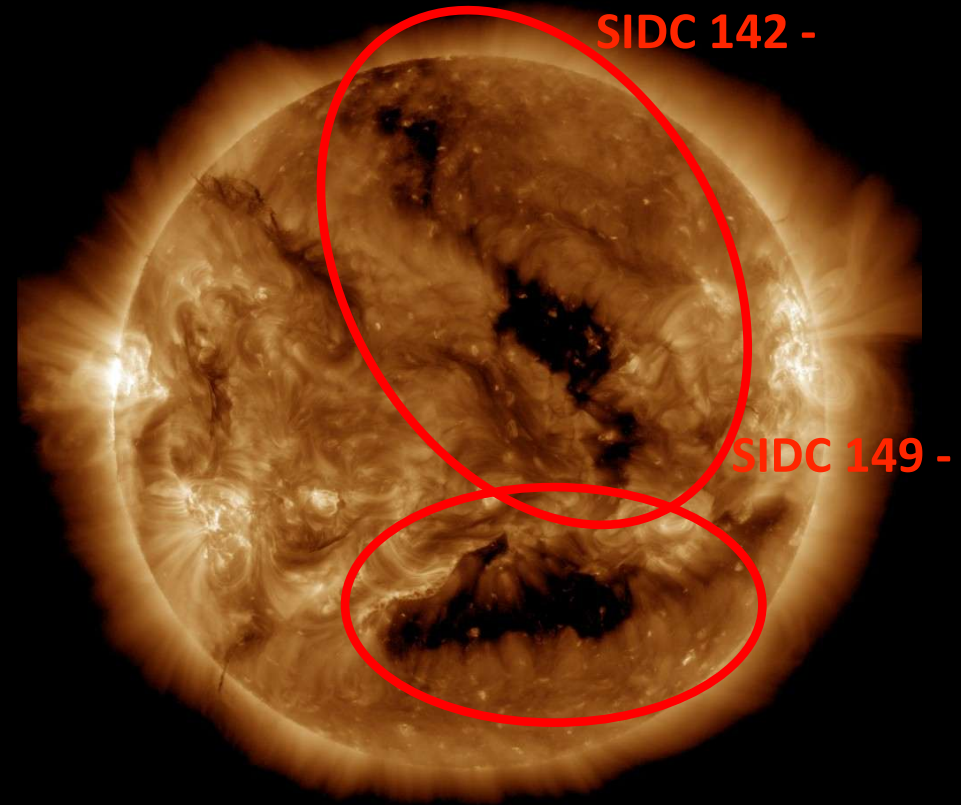
Coronal holes

SDO/AIA 19.3 nm 2026-10-11



SDO/AIA 193 2026-10-11 22:57:53 UT

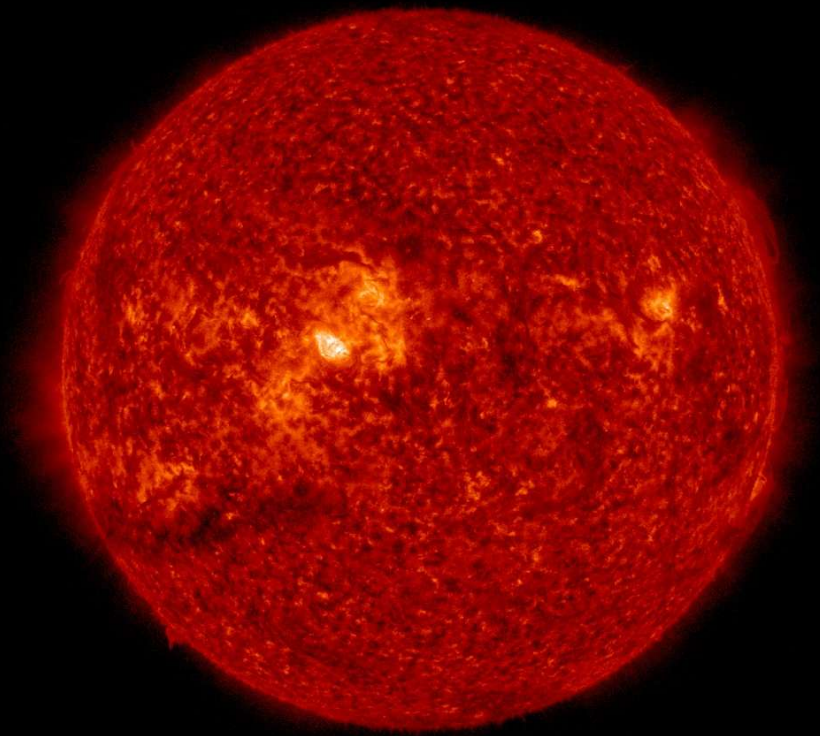
SDO/AIA 19.3 nm 2026-10-12



SDO/AIA 193 2026-10-12 01:57:29 UT

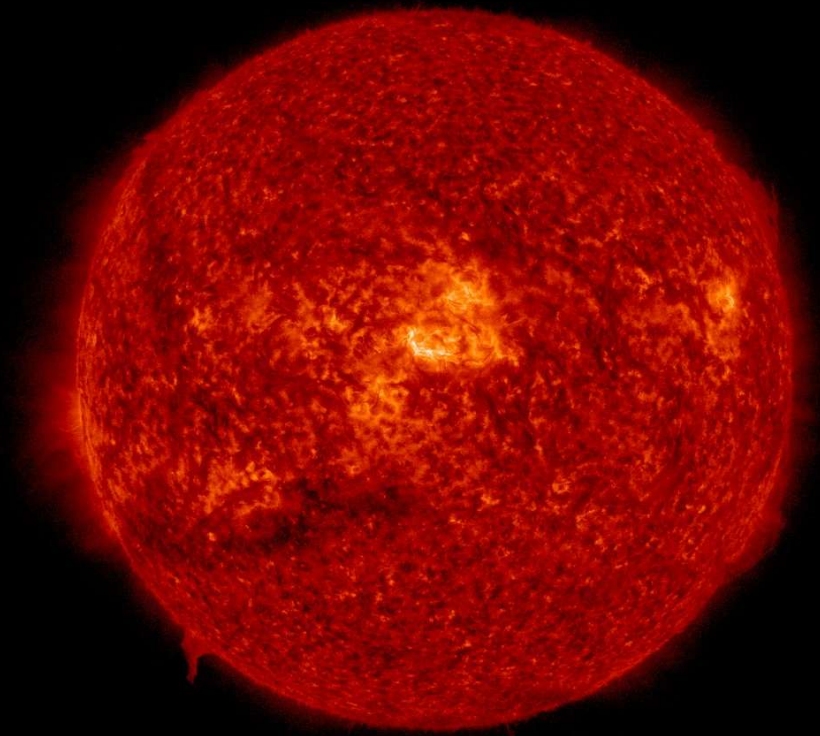
Filaments

SDO/AIA 30.4 nm 2026-10-05



SDO/AIA 304 2026-10-05 22:59:18 UT

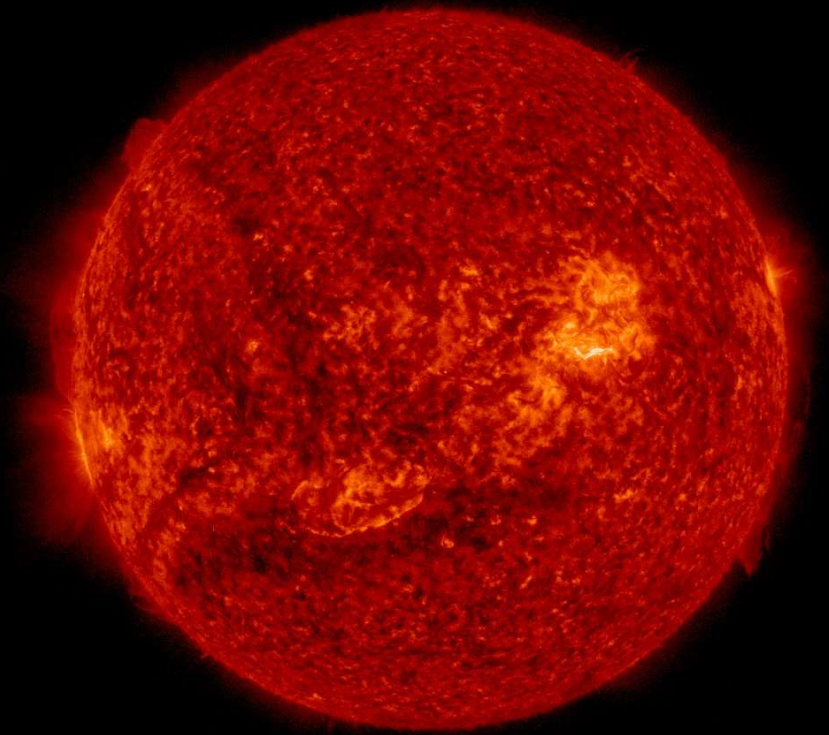
SDO/AIA 30.4 nm 2026-10-06



SDO/AIA 304 2026-10-06 22:59:30 UT

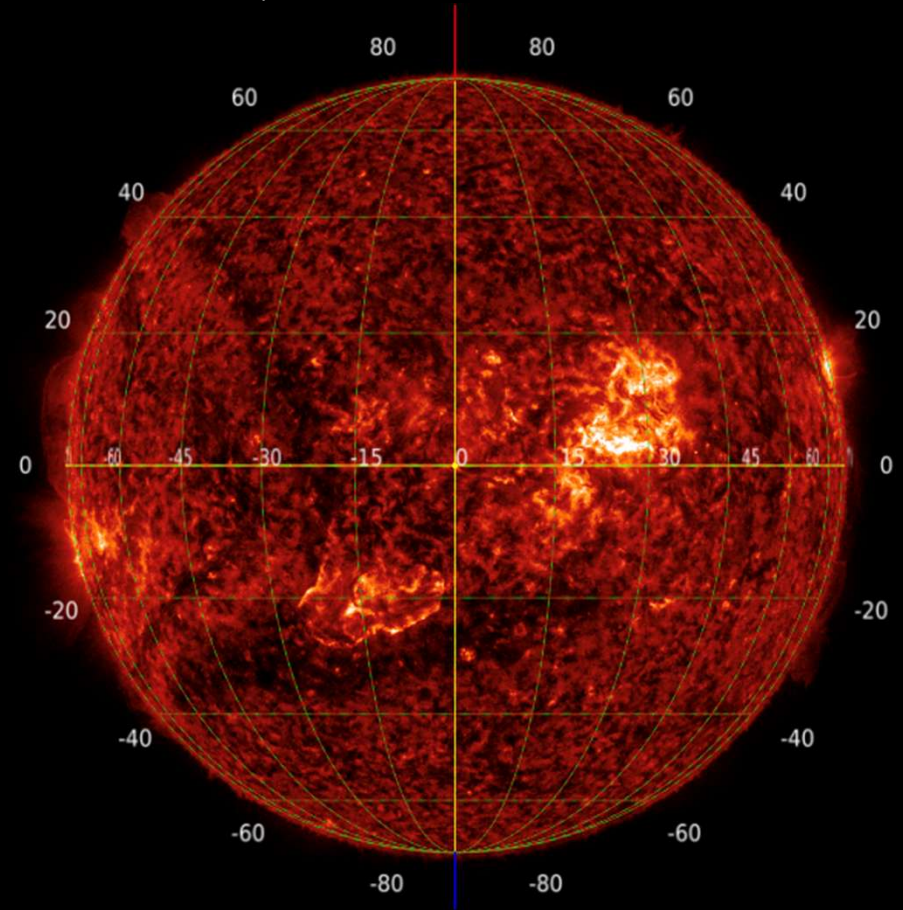
Filaments

SDO/AIA 30.4 nm 2026-10-08



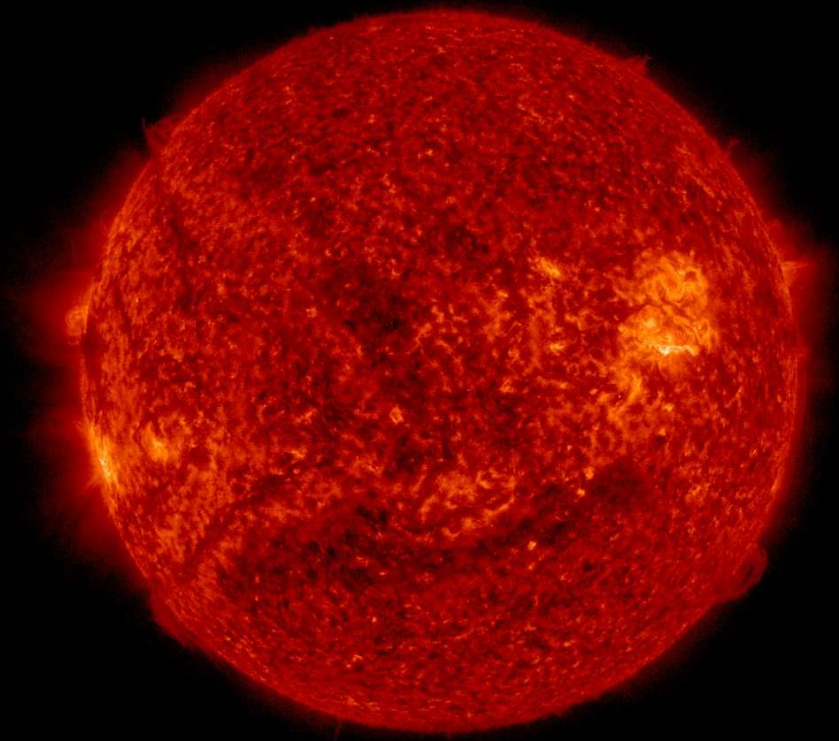
SDO/AIA 304 2026-10-08 22:59:18 UT

SDO/AIA 30.4 nm 2026-10-08



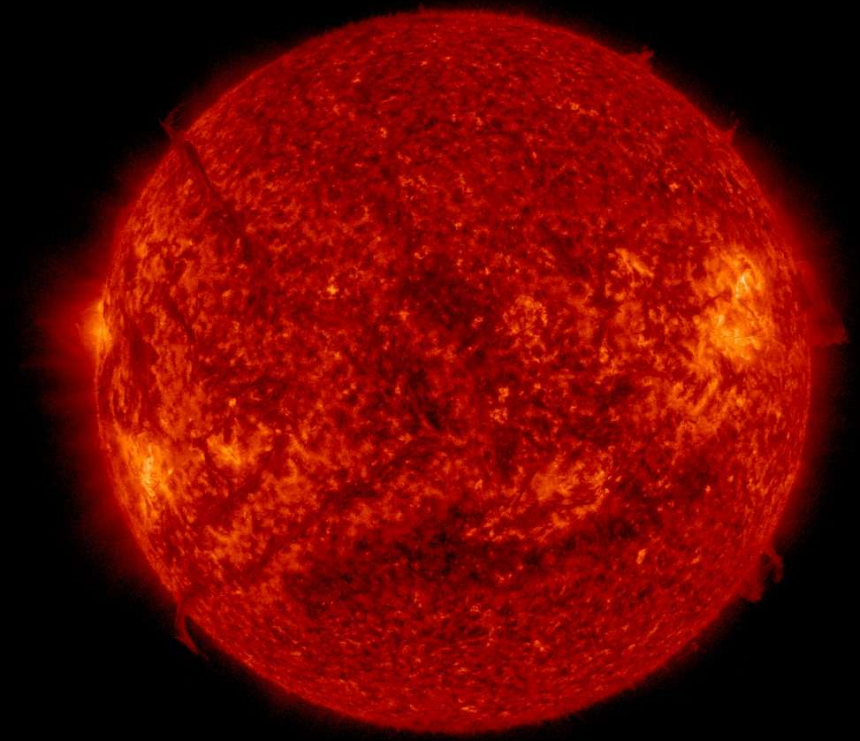
Filaments

SDO/AIA 30.4 nm 2026-10-09



SDO/AIA 304 2026-10-09 22:58:54 UT

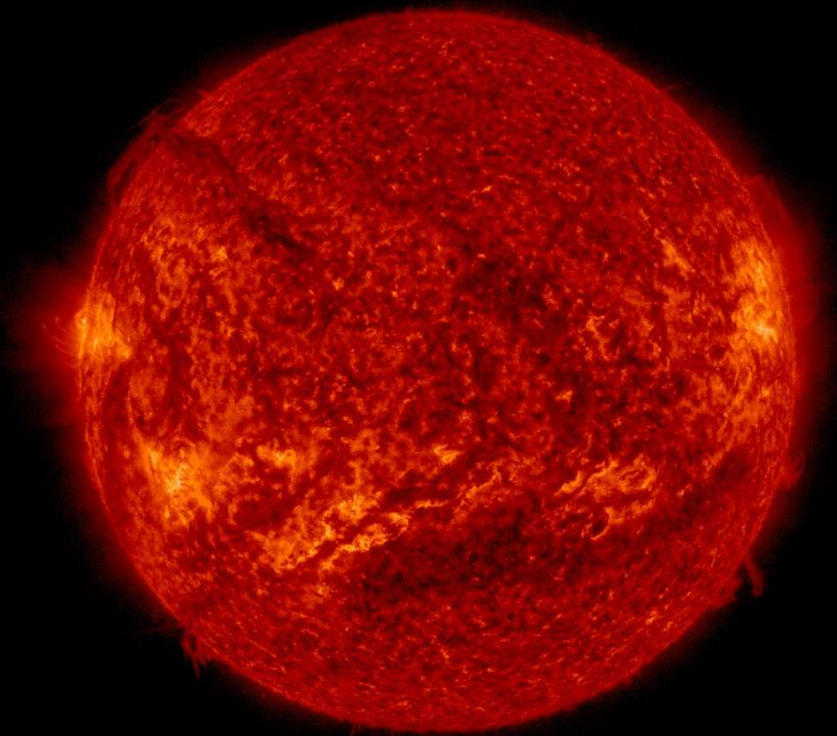
SDO/AIA 30.4 nm 2026-10-10



SDO/AIA 304 2026-10-10 22:57:54 UT

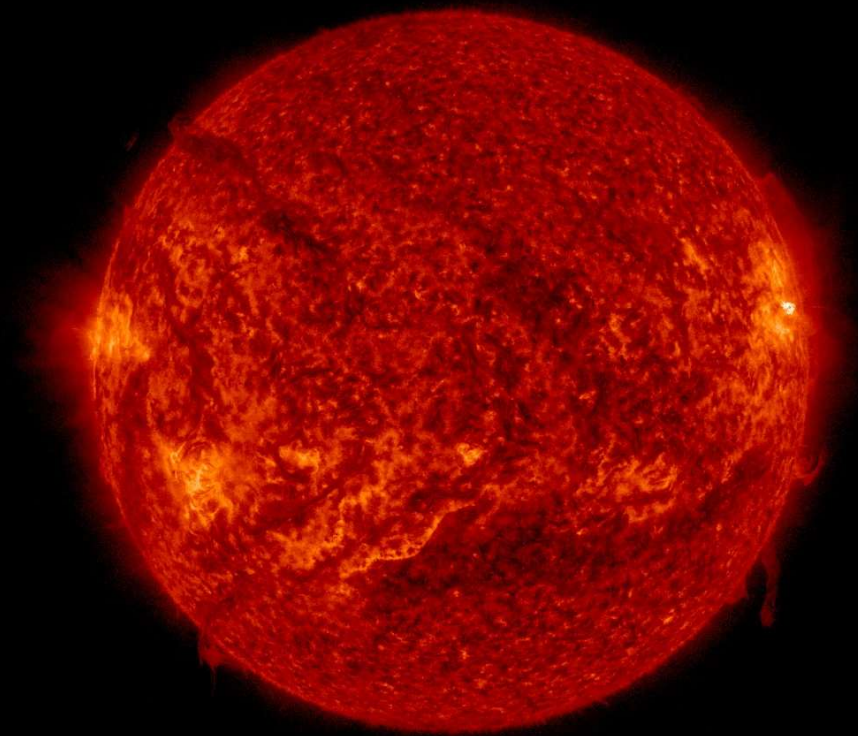
Filaments

SDO/AIA 30.4 nm 2026-10-11



SDO/AIA 304 2026-10-11 22:59:30 UT

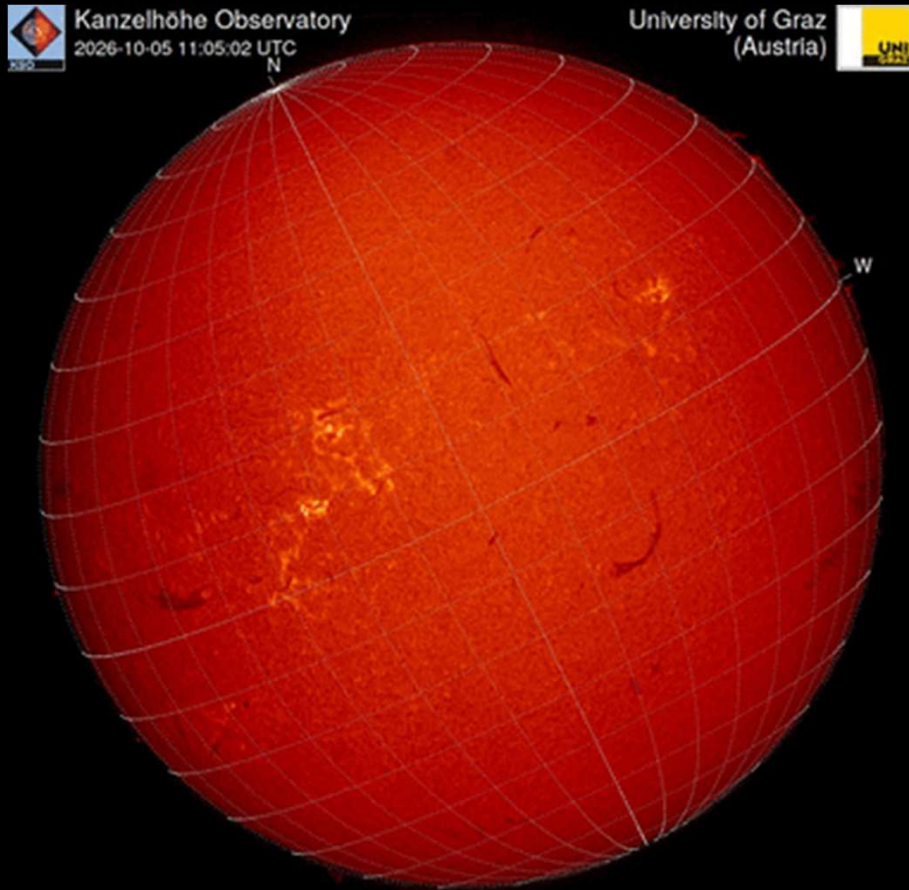
SDO/AIA 30.4 nm 2026-10-12



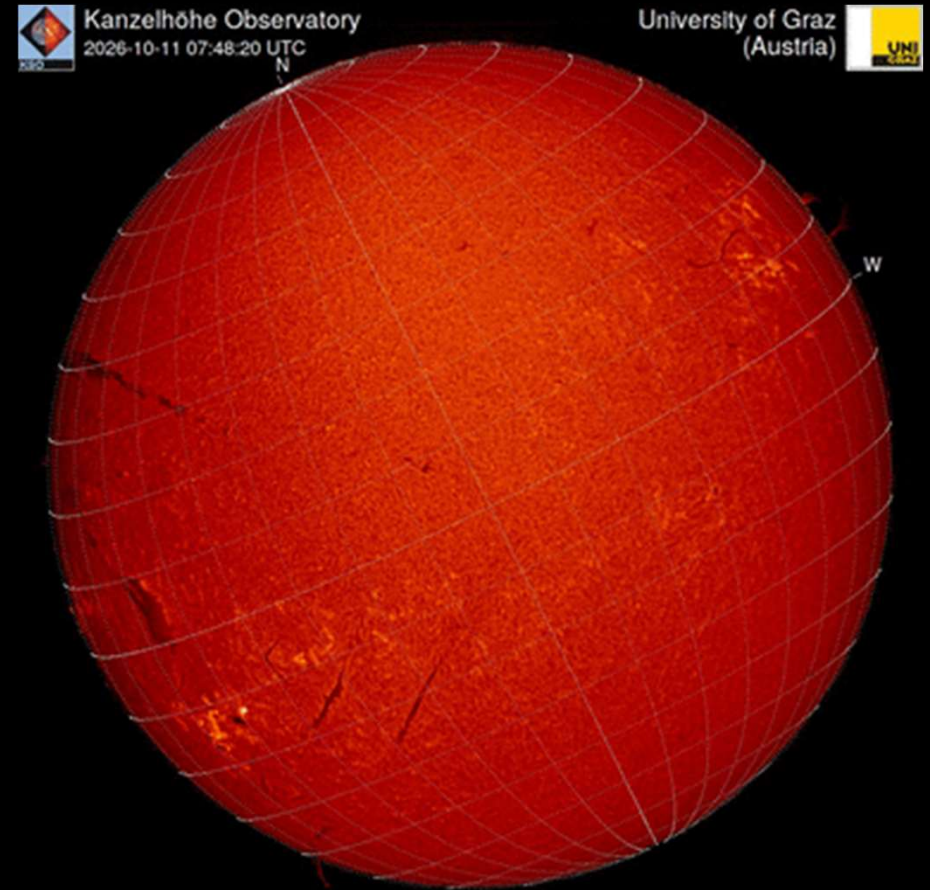
SDO/AIA 304 2026-10-12 01:58:42 UT

Filaments & Filament eruptions

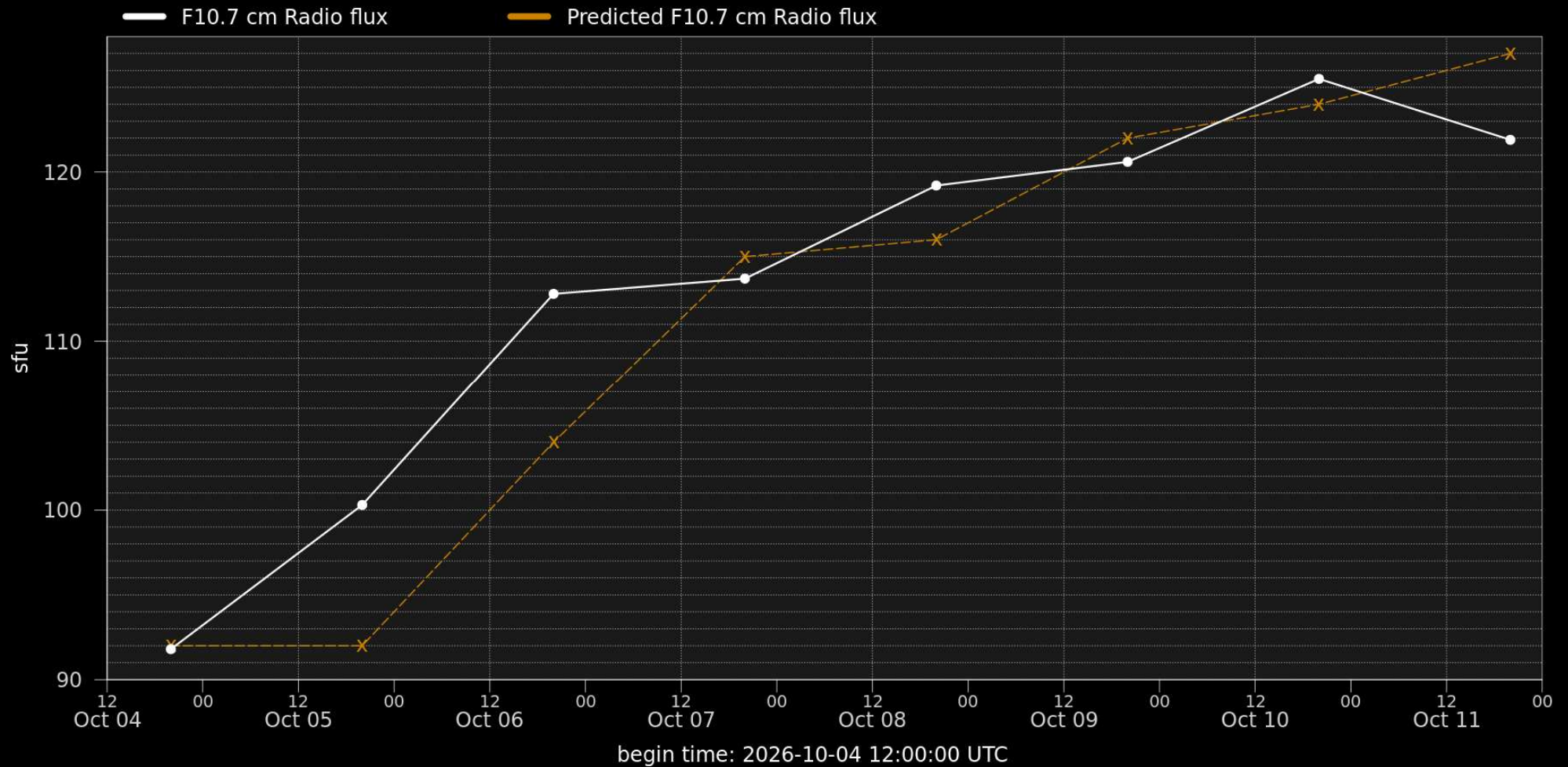
H-alpha 2026-10-05



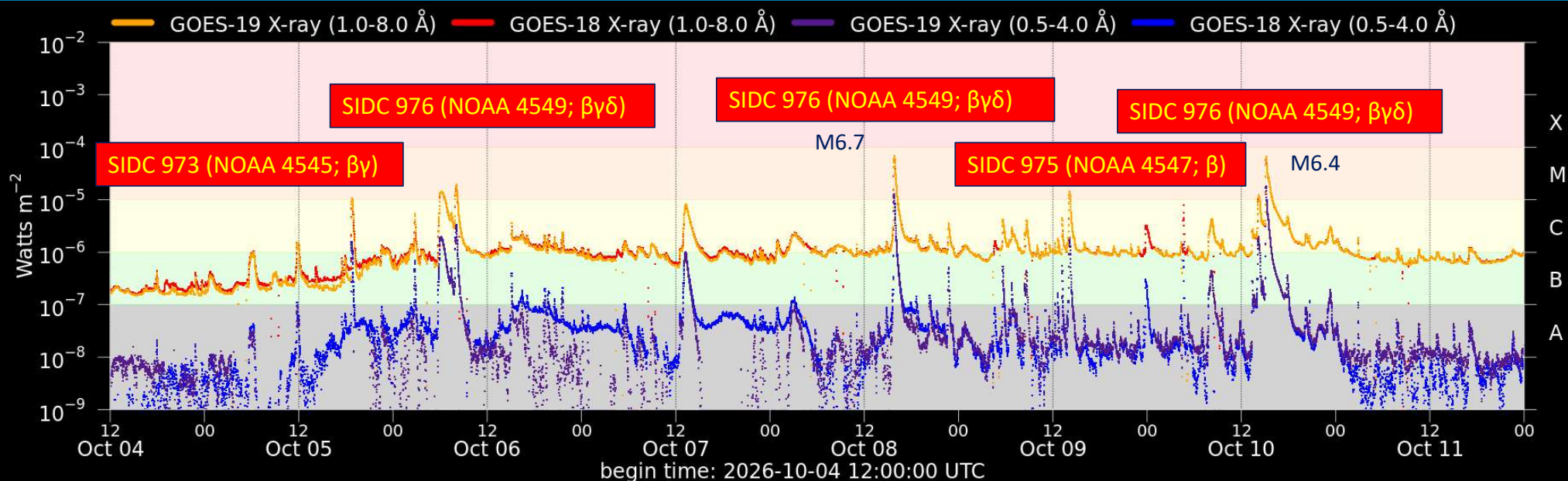
H-alpha 2026-10-11



Solar F10.7cm radio flux



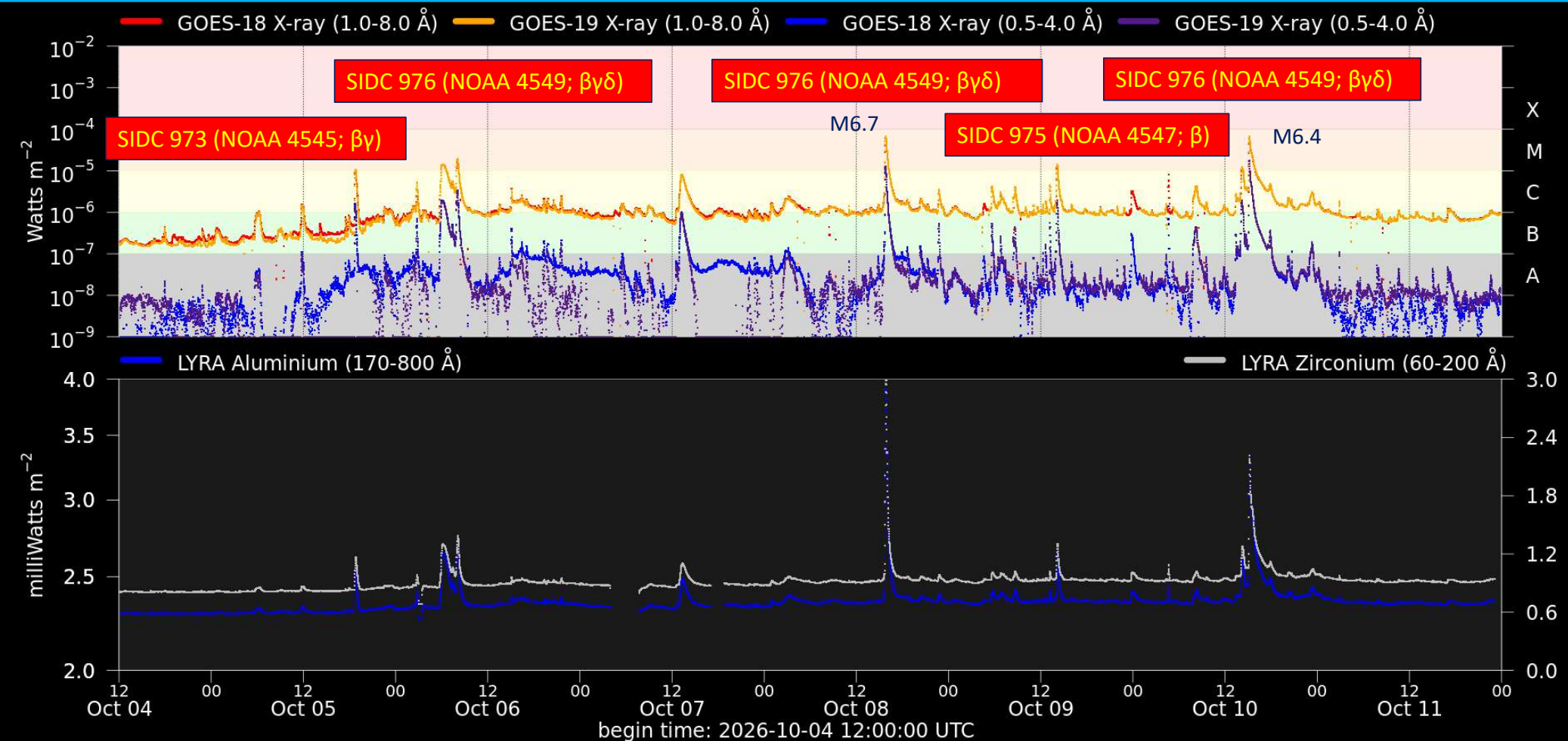
Flaring activity



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

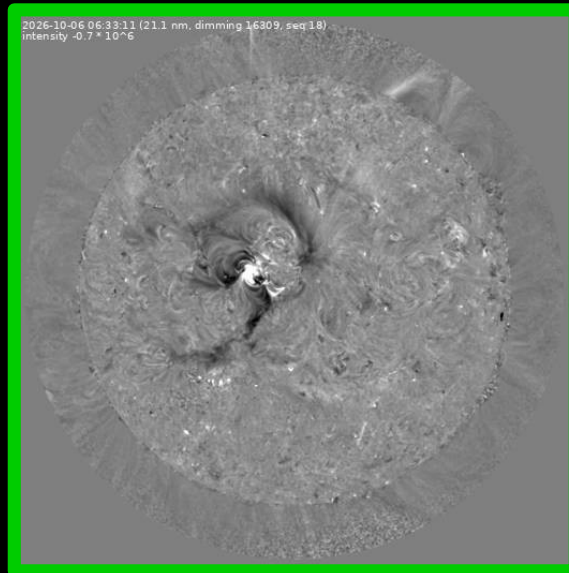
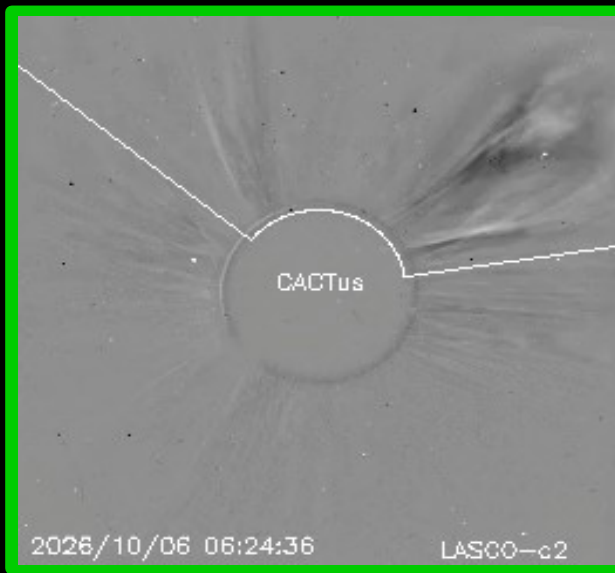
Issue date	2026-10-04	2026-10-05	2026-10-06	2026-10-07	2026-10-08	2026-10-09	2026-10-10	2026-10-11
Probability (%)	70 20 01	76 18 01	94 53 05	84 41 01	92 42 01	98 74 15	99 82 16	99 78 10
Observed (#)	01 00 00	03 02 00	06 00 00	03 00 00	07 01 00	08 01 00	04 02 00	01 00 00

Solar X-Ray and UV flux



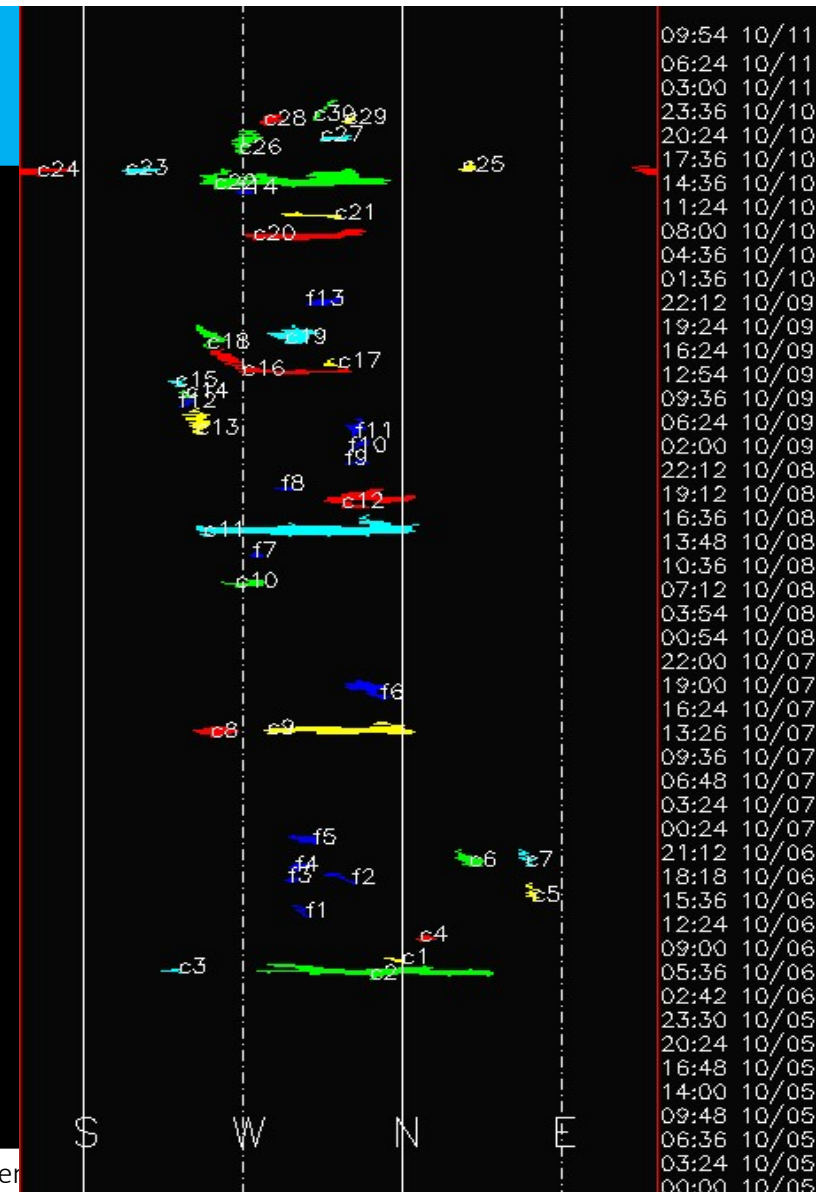
Coronal Mass Ejections

PARTIAL HALO 07:12 UTC on OCTOBER 06



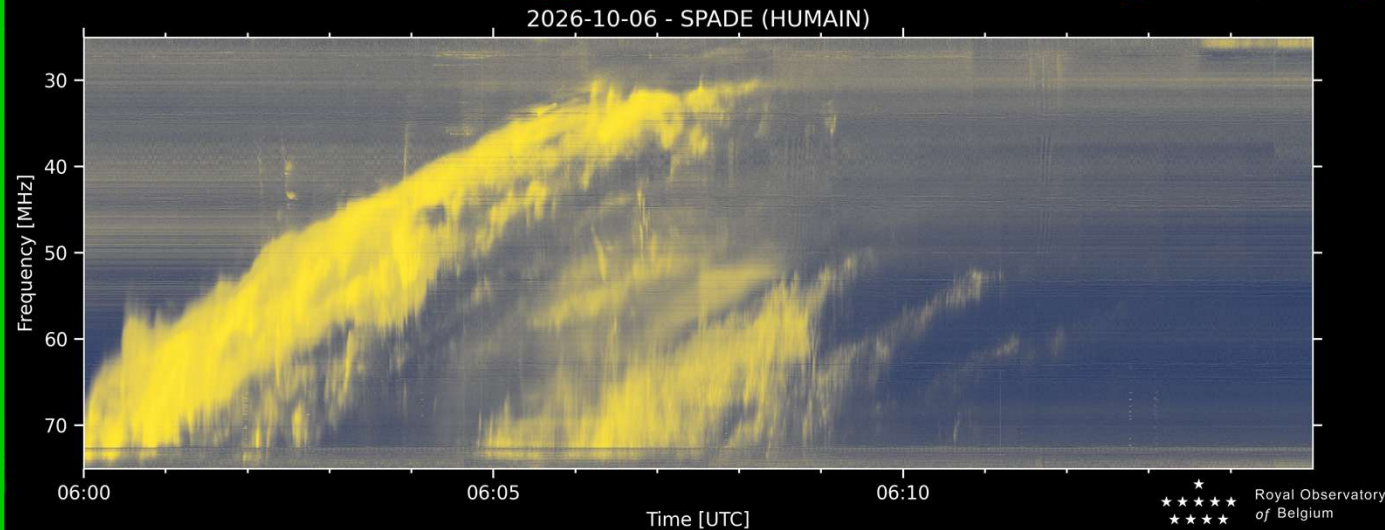
Possible mild arrival n October 09
Type II radio emission 05:59 UTC
Estimated speed 560 km/s

Space Weather Briefing – Solar Influences Data analysis Cer



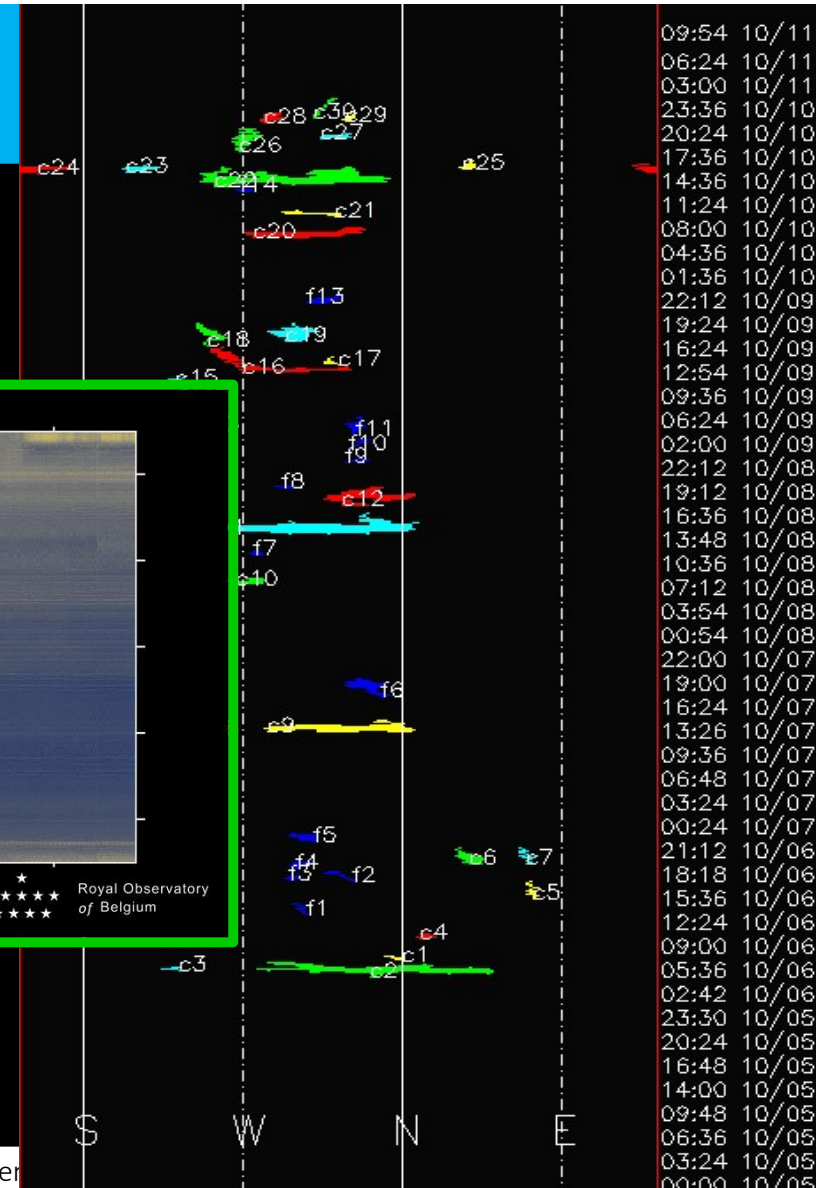
Coronal Mass Ejections

PARTIAL HALO 07:12 UTC on OCTOBER 06



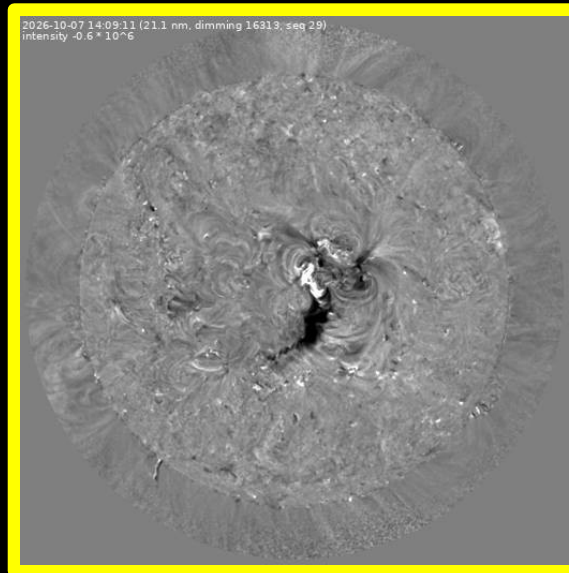
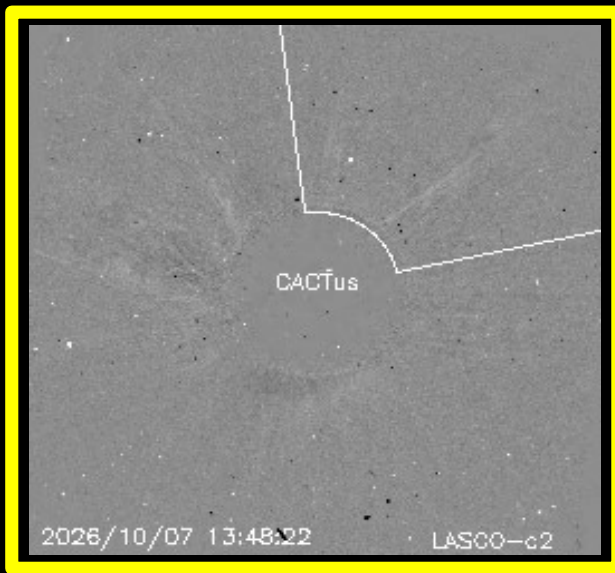
Possible mild arrival n October 09
Type II radio emission 05:59 UTC
Estimated speed 560 km/s

Space Weather Briefing – Solar Influences Data analysis Cer



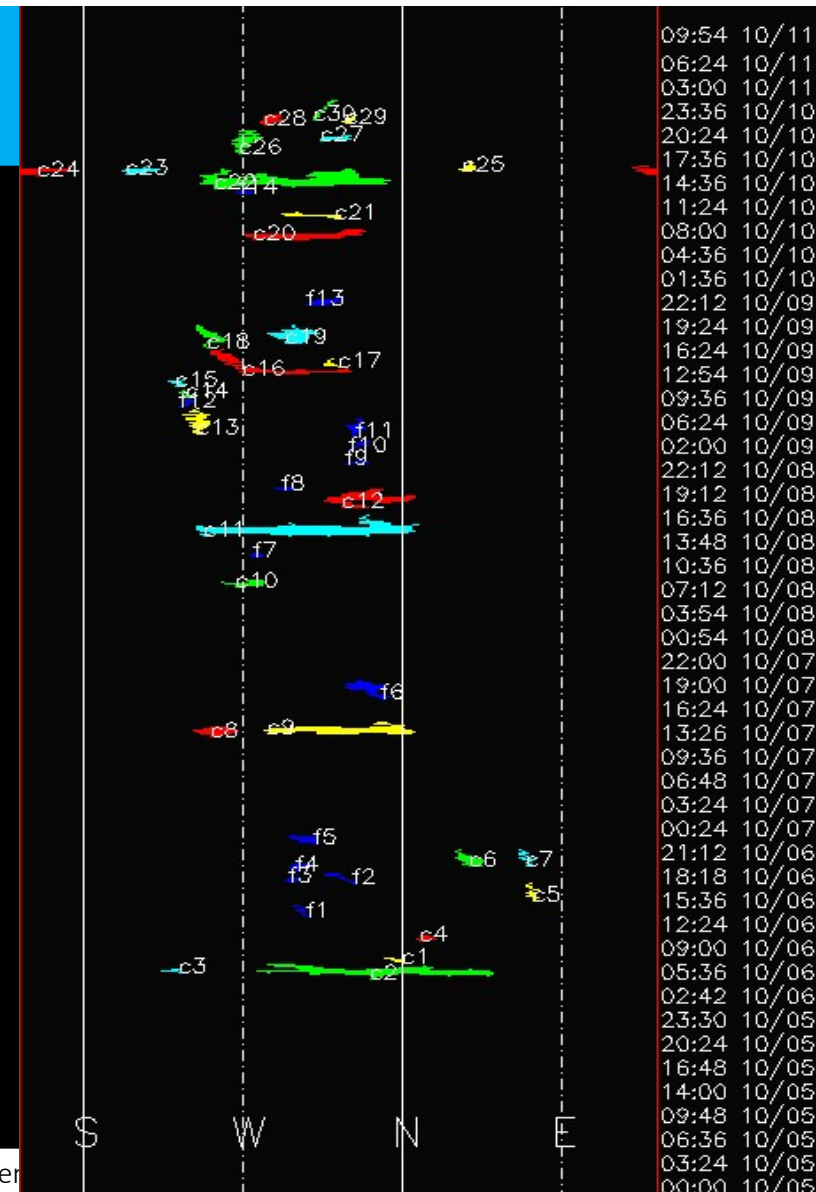
Coronal Mass Ejections

PARTIAL HALO 14:24 UTC on OCTOBER 07



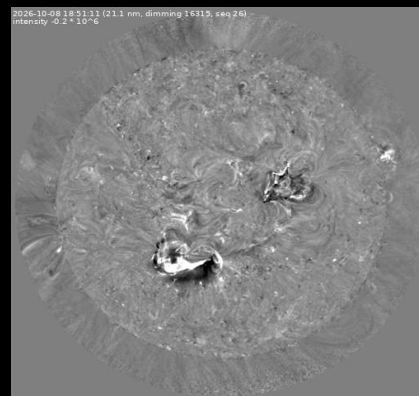
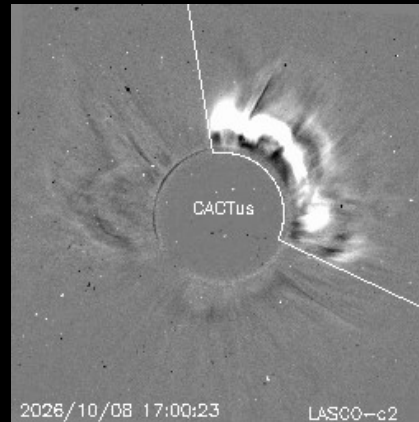
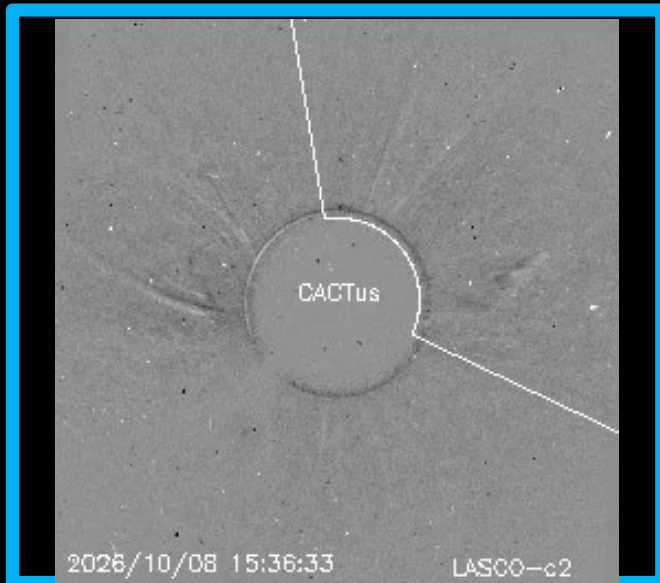
Possible mild arrival n October 11
Estimated speed 350 km/s

Space Weather Briefing – Solar Influences Data analysis Cer

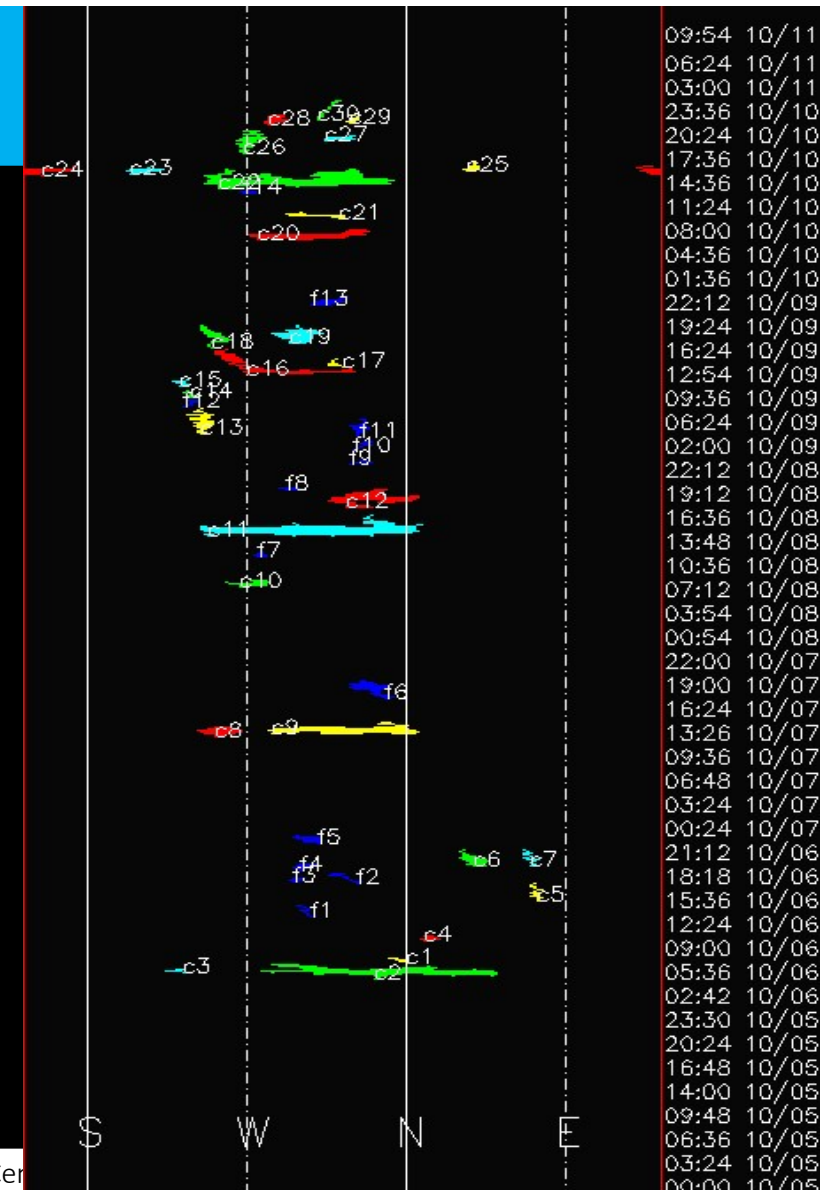


Coronal Mass Ejections

PARTIAL HALO 16:12 UTC on OCTOBER 08

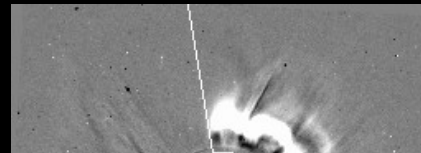
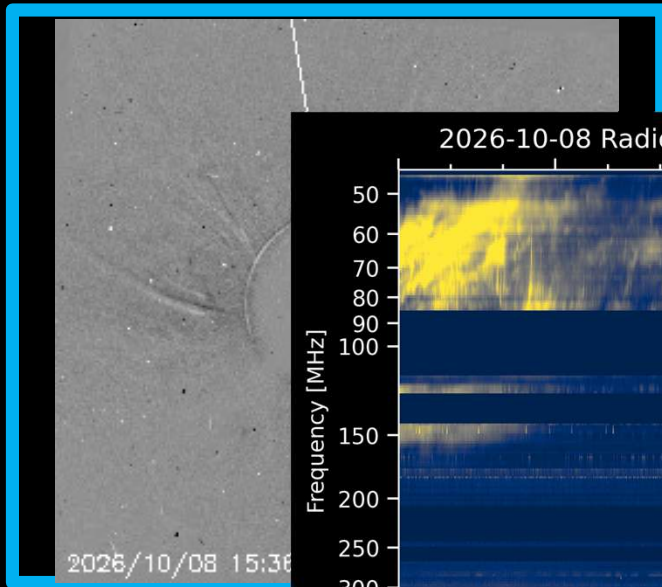


Possible arrival n October 11
Type II radio emissions
Estimated speed 550 km/s

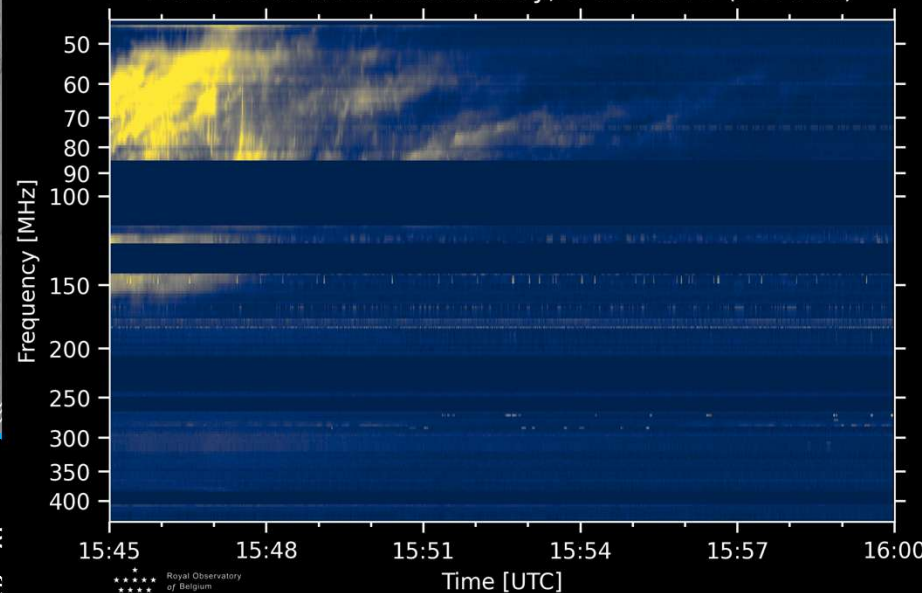


Coronal Mass Ejections

PARTIAL HALO 16:12 UTC on OCTOBER 08

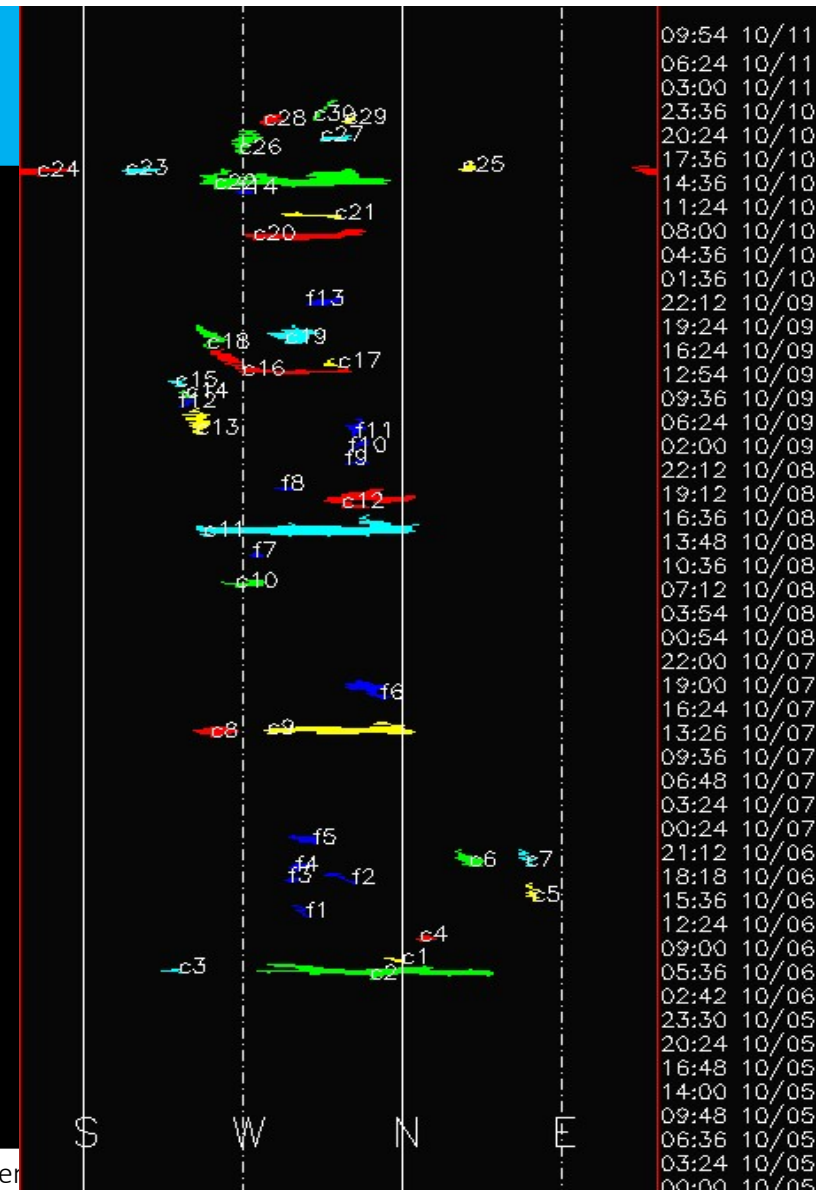


2026-10-08 Radio flux density, e-CALLISTO (HUMAIN)



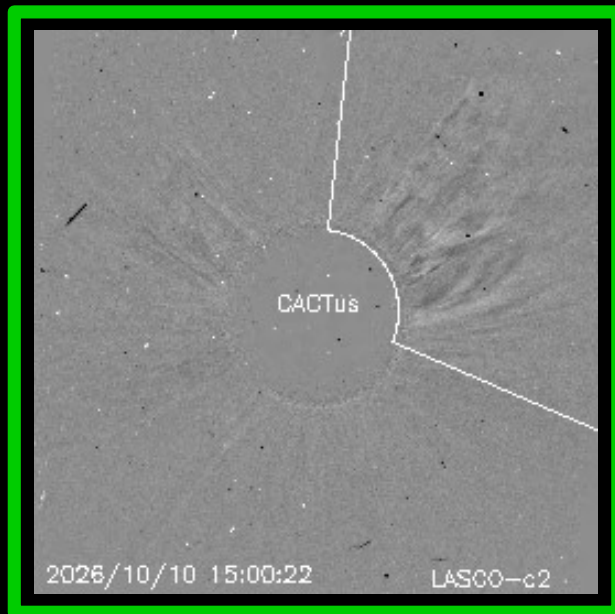
Possible arrival
Type II radio e
Estimated speed 550 km/s

Space Weather Briefing – Solar Influences Data analysis Cer

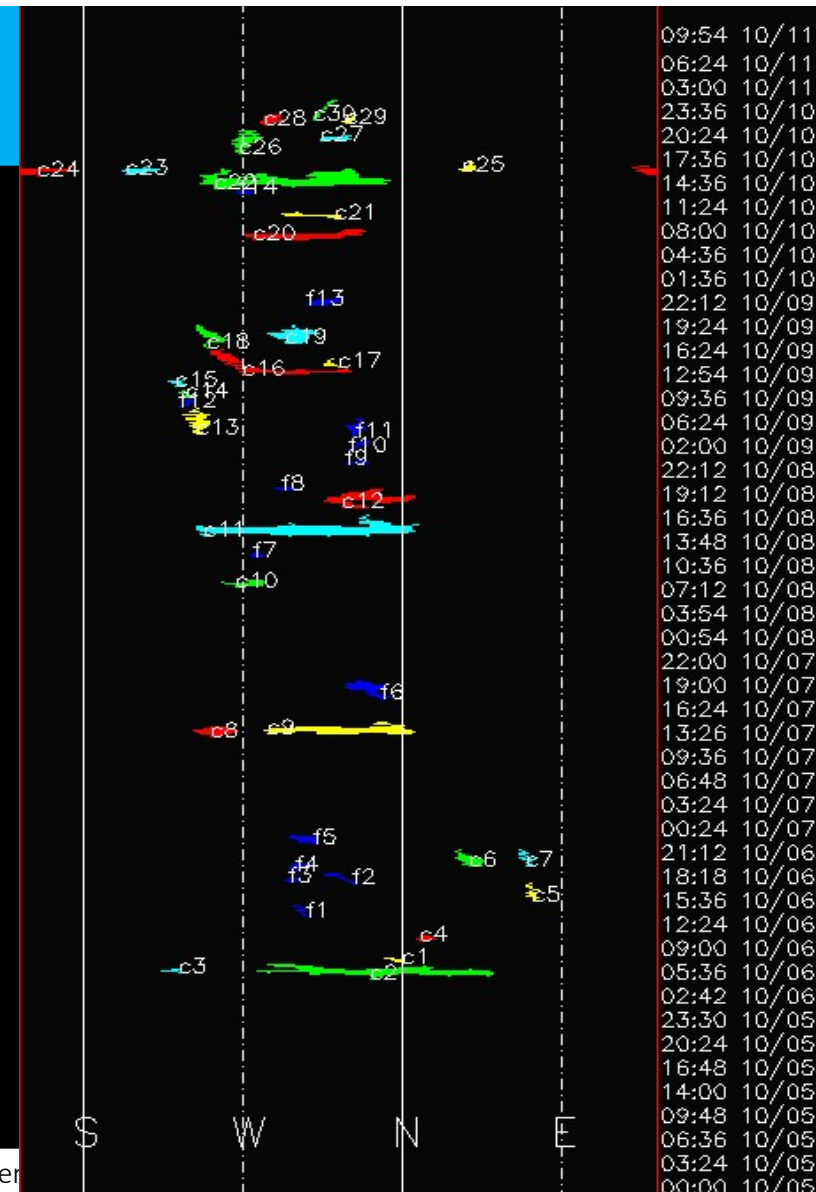
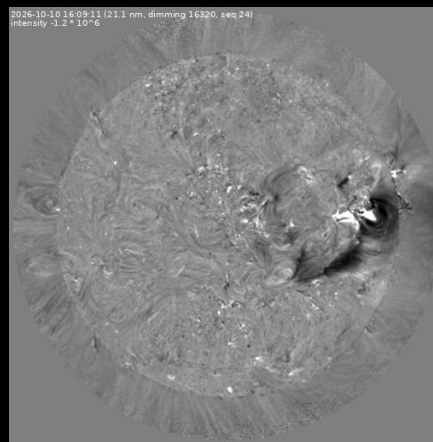
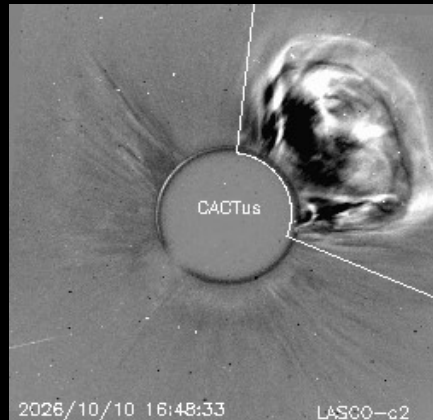


Coronal Mass Ejections

SIDC CME 727 15:36 UTC on OCTOBER 10

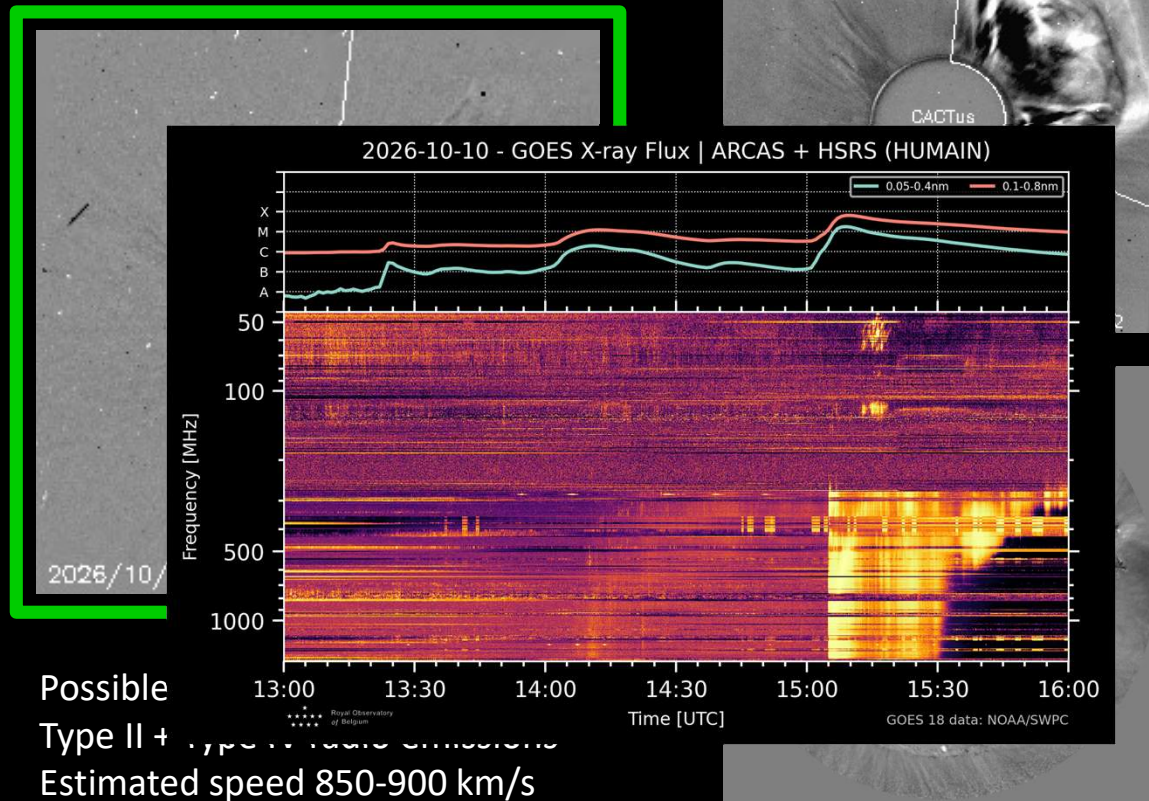


Possible arrival n October 12
Type II + Type IV radio emissions
Estimated speed 850-900 km/s

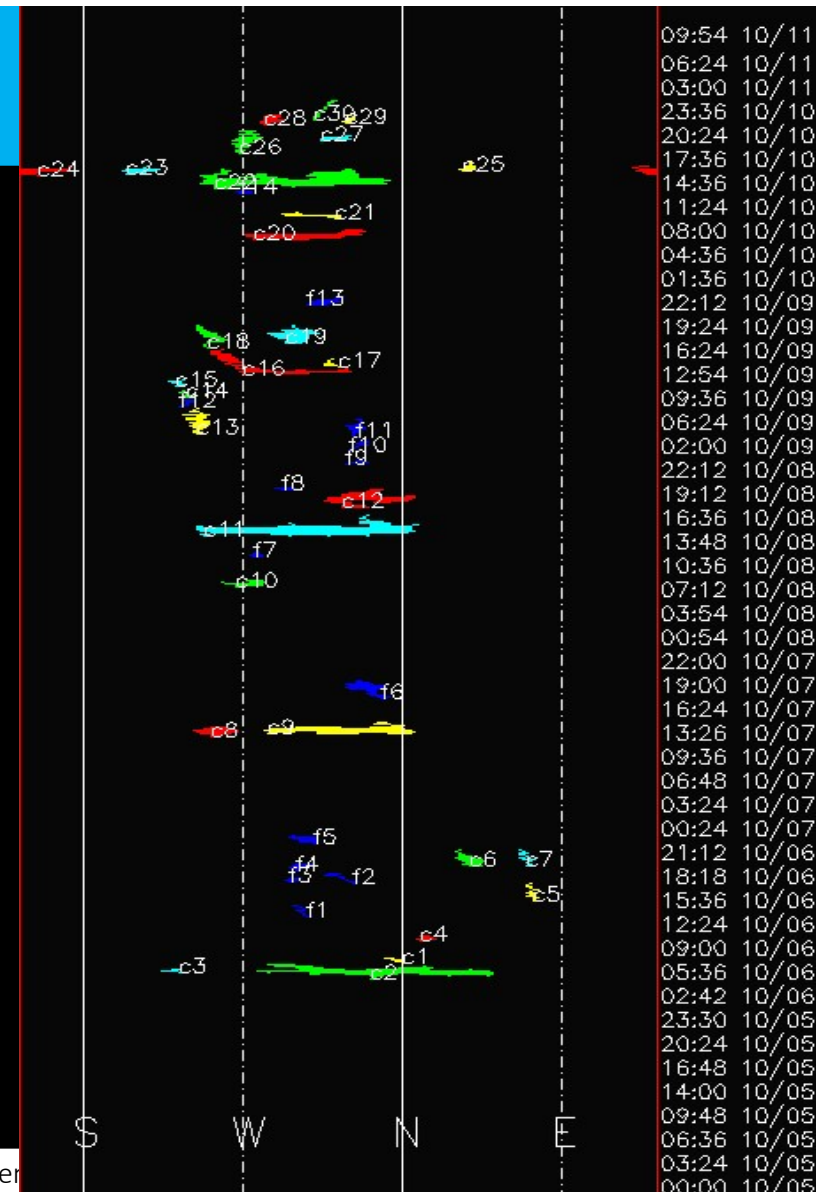


Coronal Mass Ejections

SIDC CME 727 15:36 UTC on OCTOBER 10



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Solar Wind and

Geomagnetic Activity



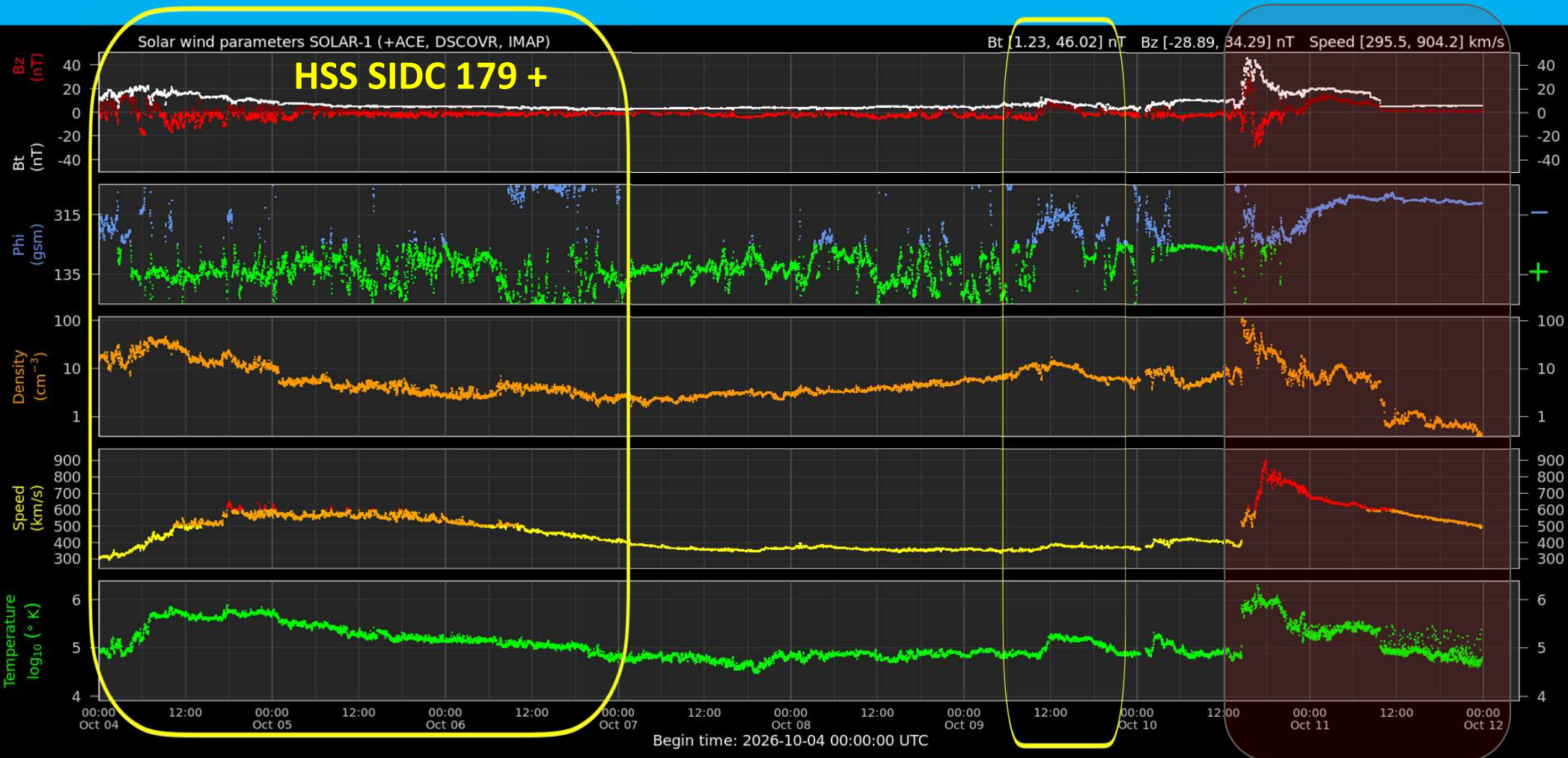
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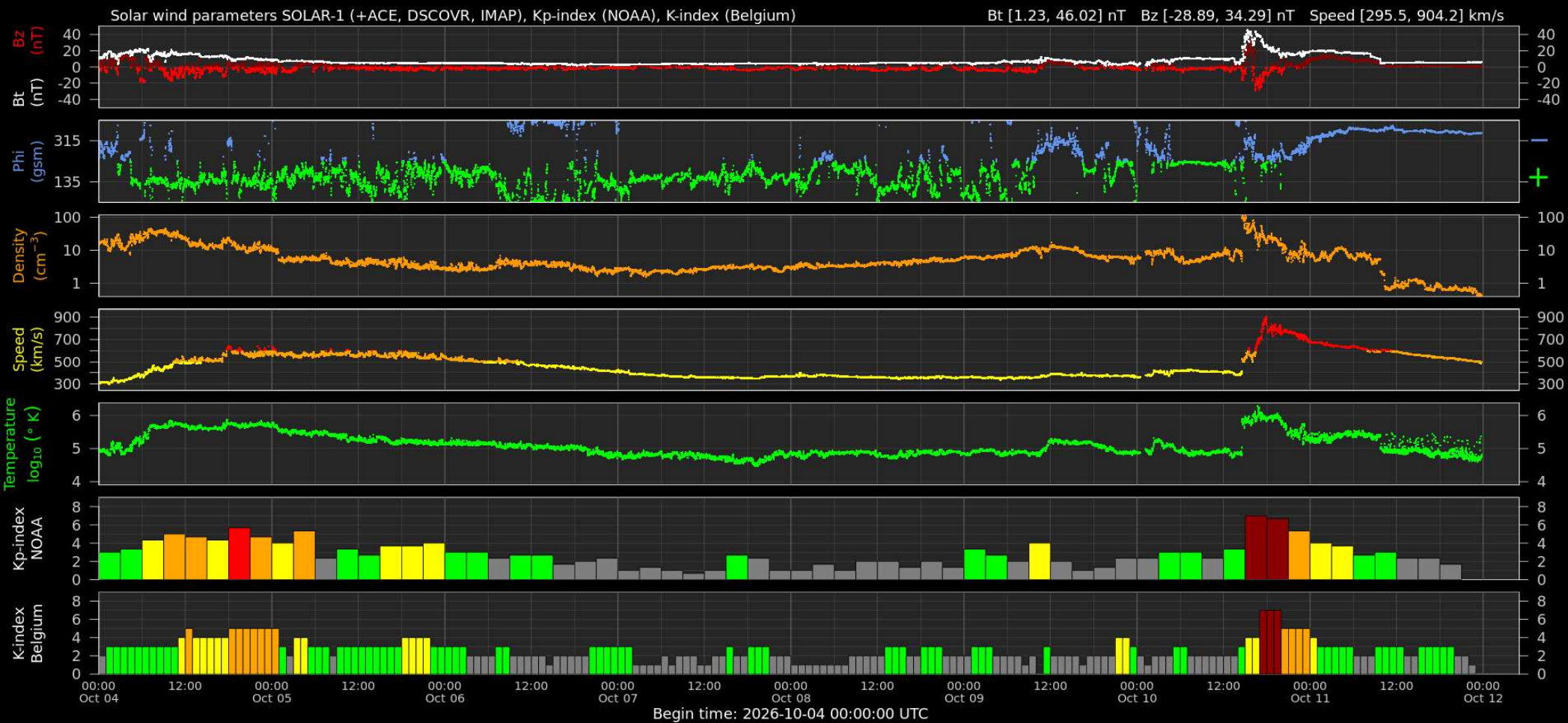
Solar wind parameters

CME Oct 06?

CMEs Oct 07/08?



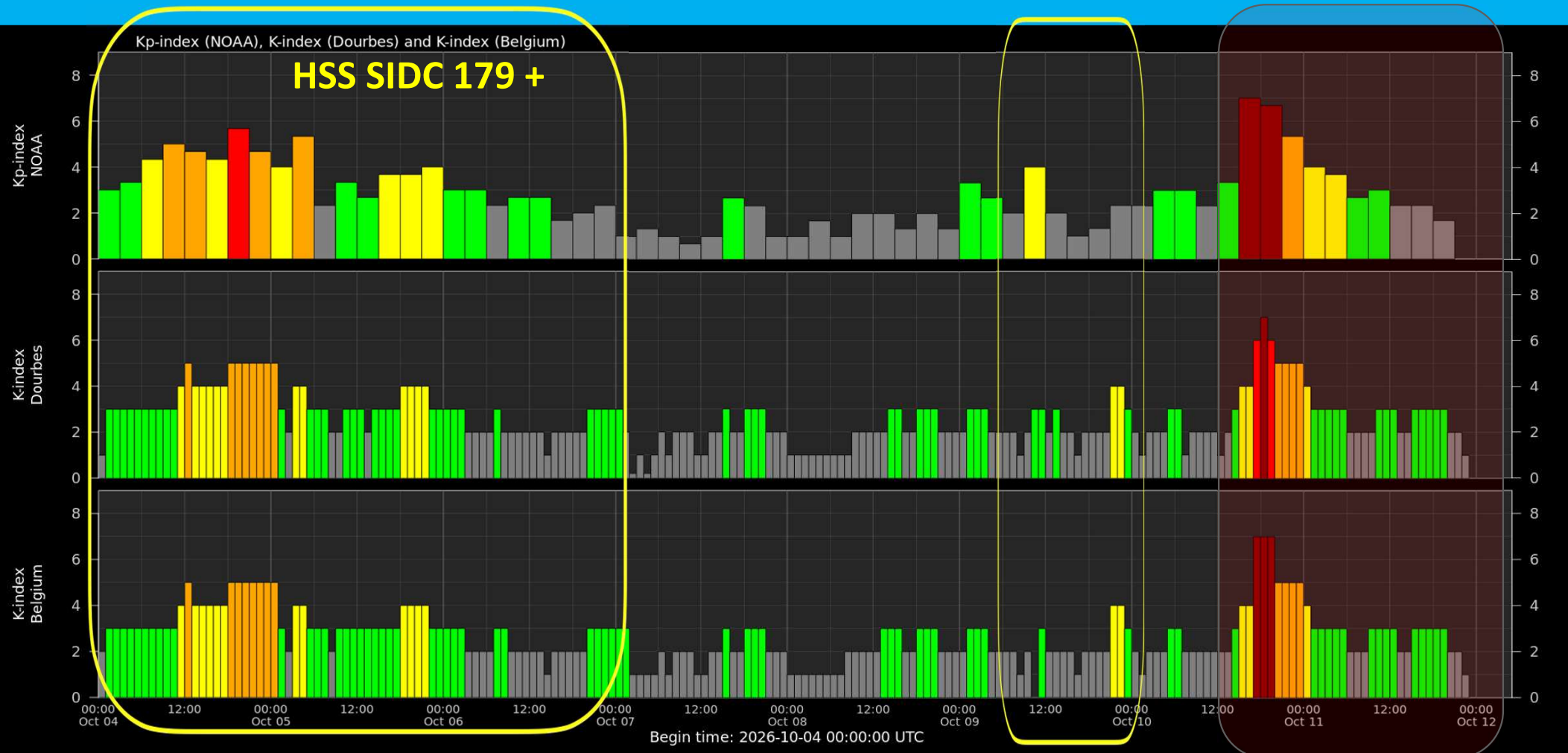
Solar wind parameters & K-indices



Geomagnetic activity (K-indexes)

CME Oct 06?

CMEs Oct 07/08?

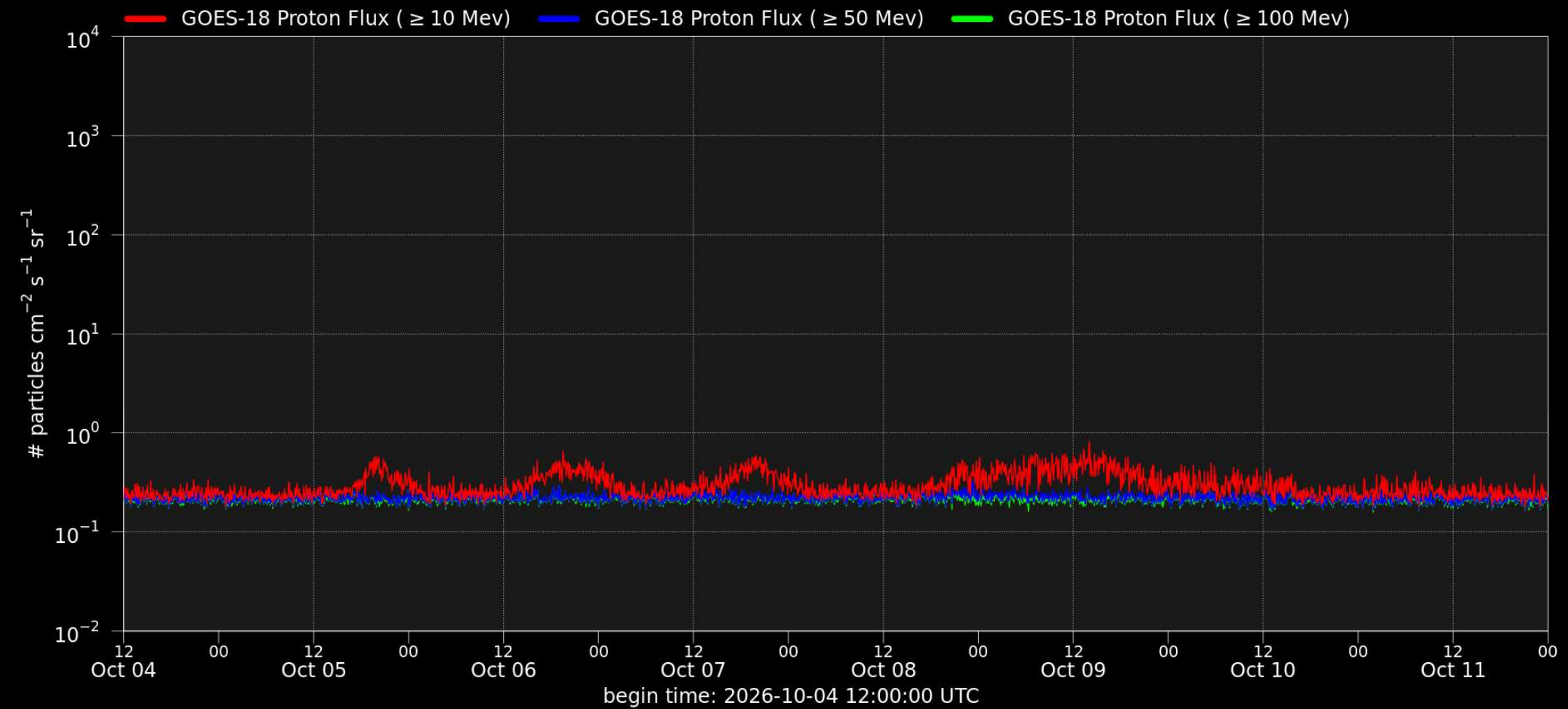


Energetic Particles



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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



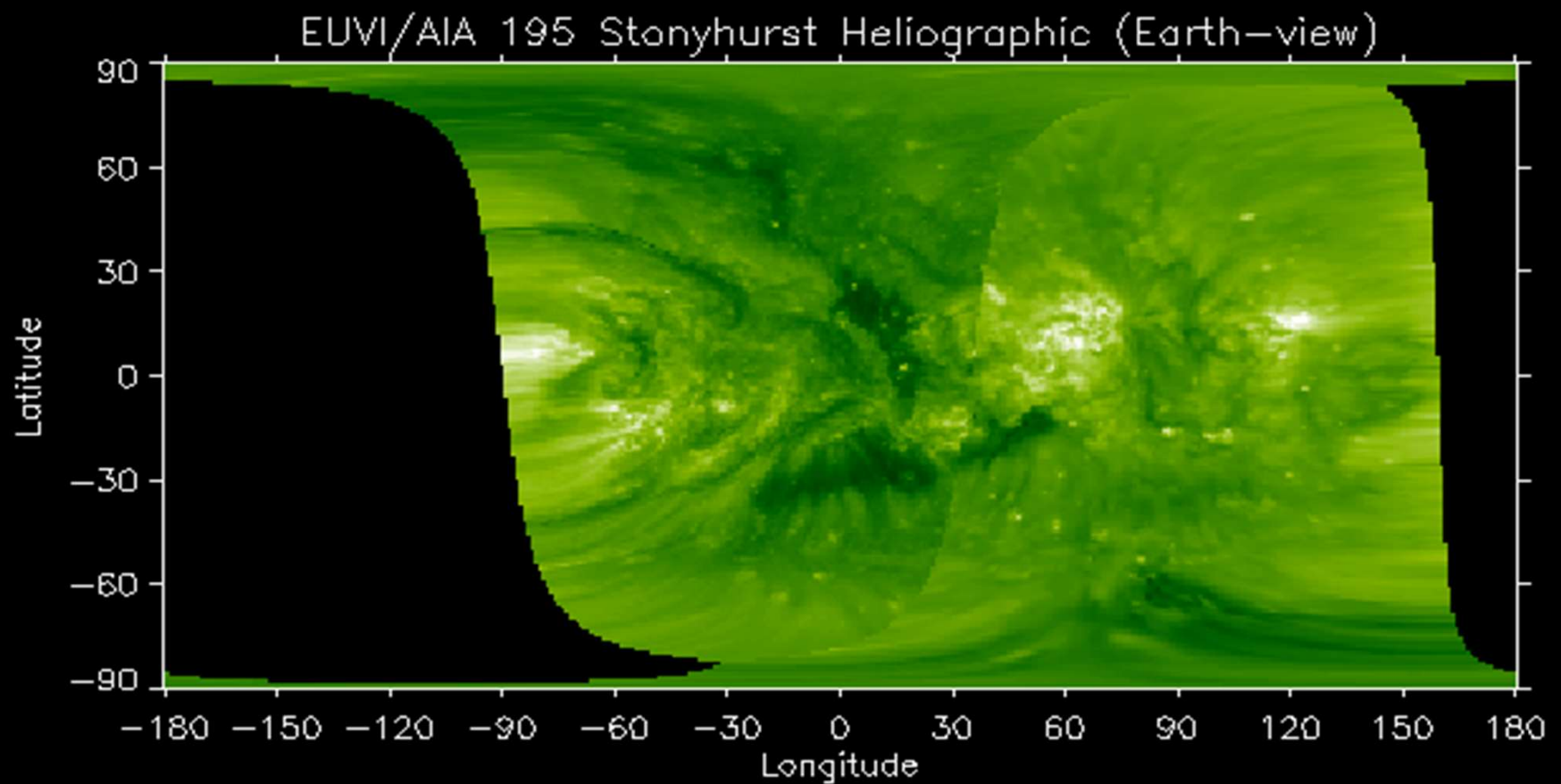
Outlook



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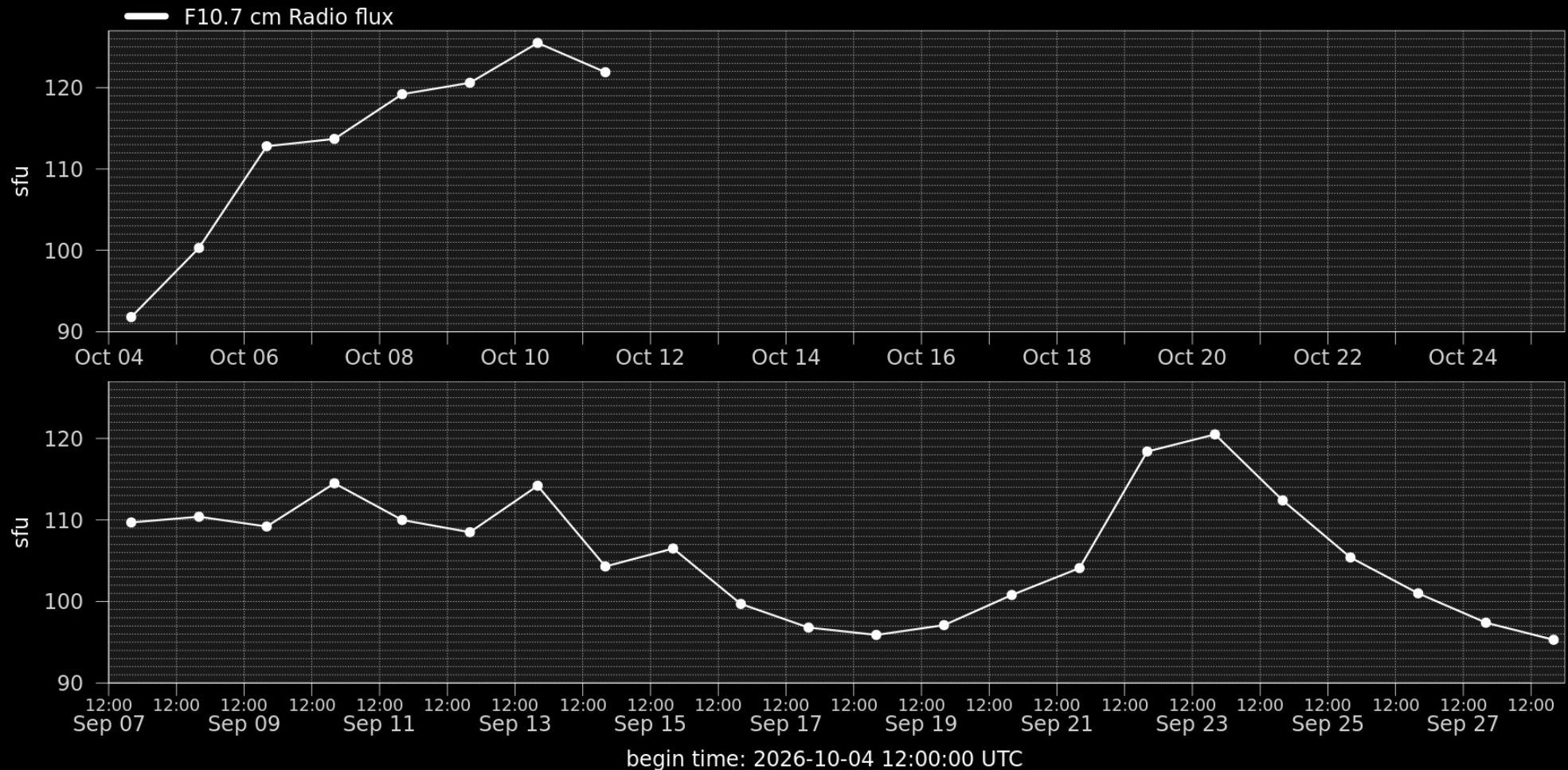
Solar Influences
Data analysis Centre
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Outlook: Solar activity

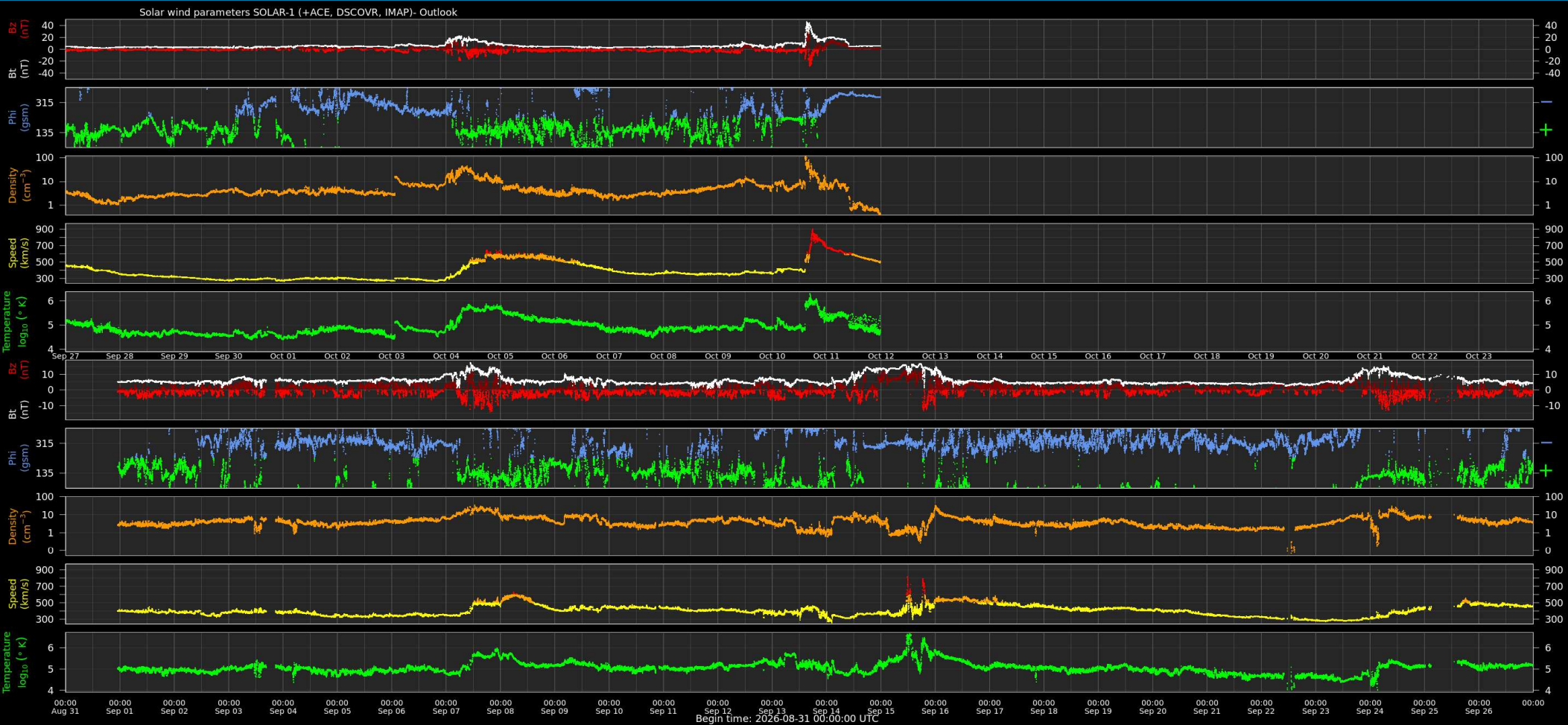


Observation date: 2026/10/11 15:35:00

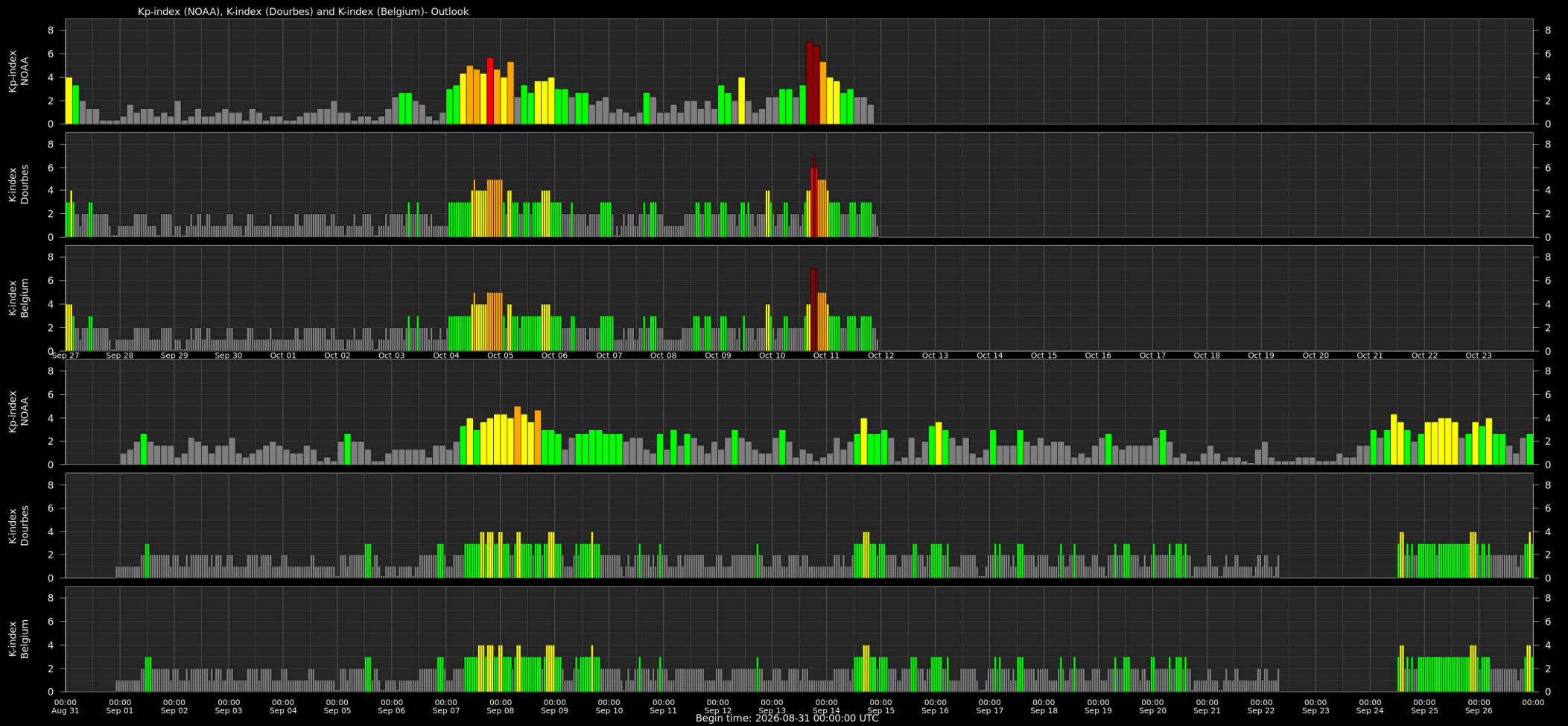
Outlook: Solar F10.7cm radio flux



Outlook: Solar wind parameters



Outlook: Geomagnetic activity



Outlook: Electron Flux at GEO Outlook



PECASUS



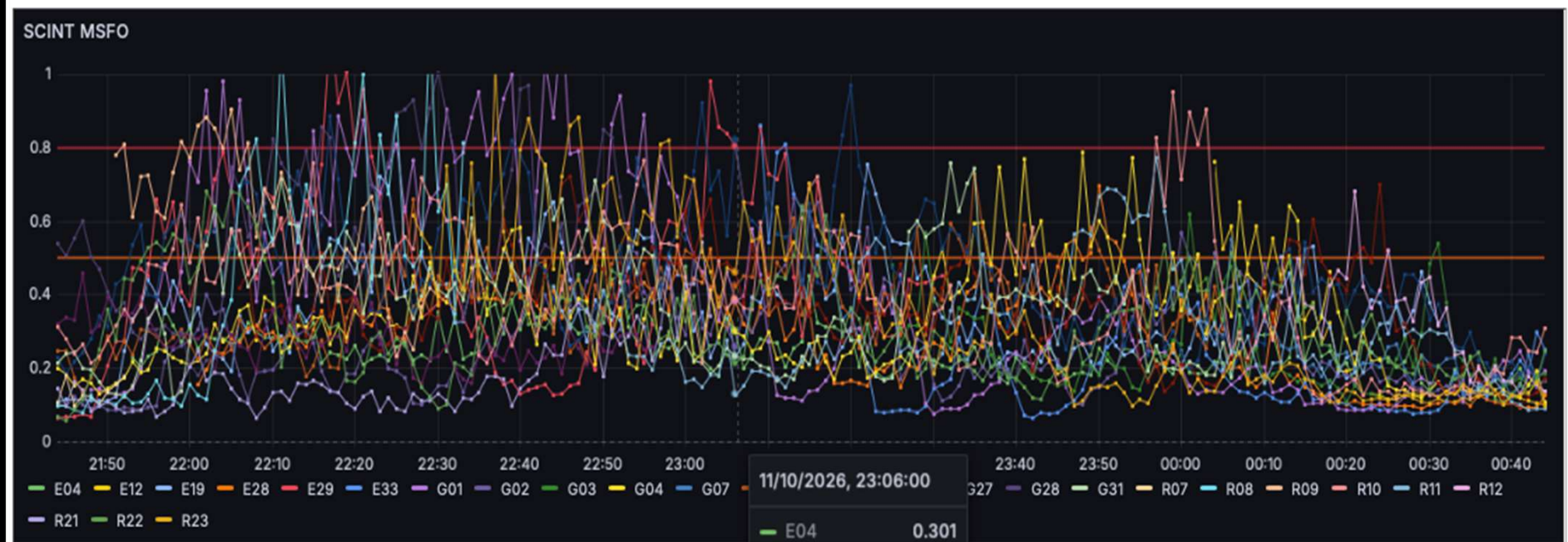
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Pegasus related events

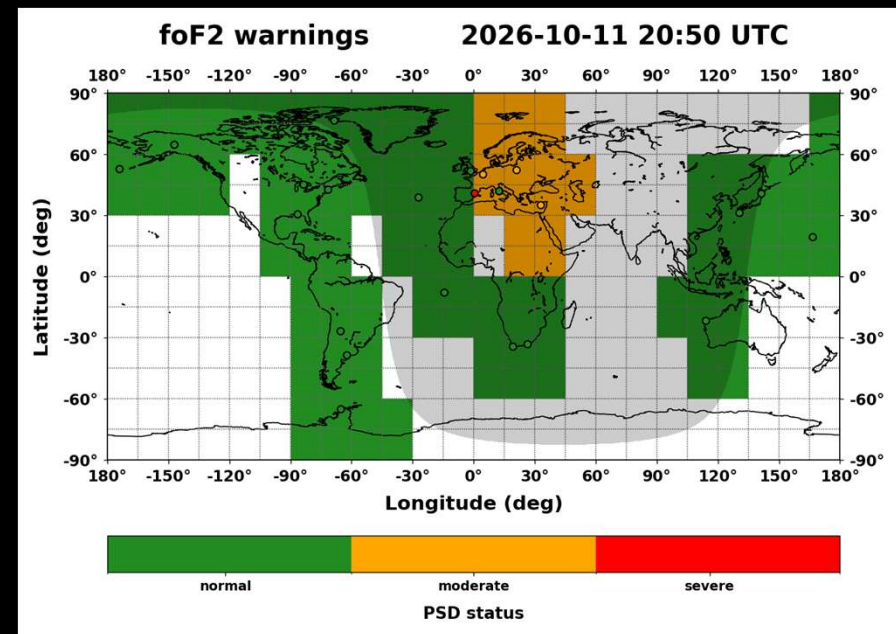
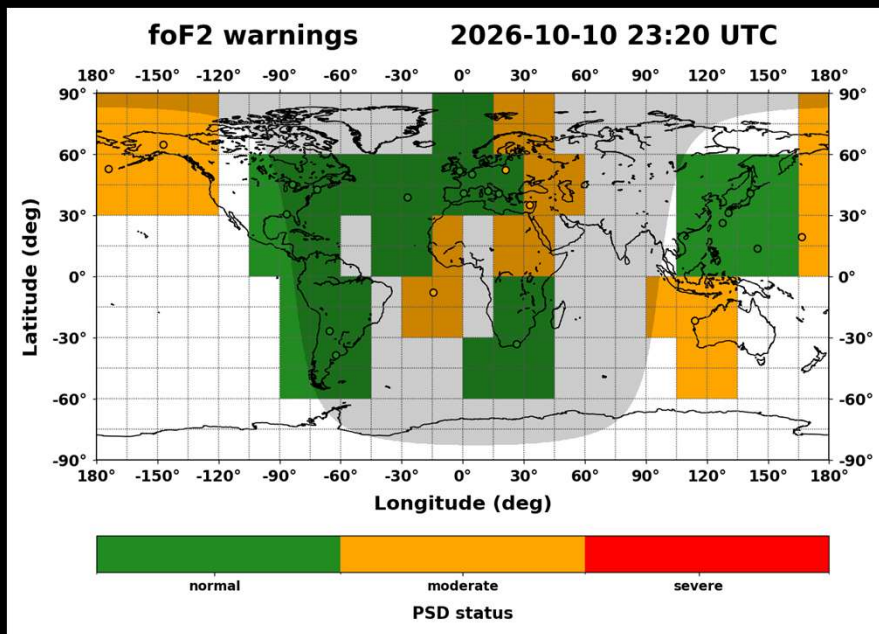
Scintillation

s4 scintillation for MSFO station at 2026-10-12 00:44 UTC



Pegasus related events

PSD



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See you at our next briefing!

Or visit us at www.sidc.be



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