SIDC Space Weather Briefing

27 September 2020 - 04 October 2020

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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 2020-09-27 to 2020-10-04

Active regions	NONE, 1 plage (previously NOAA 2773)
Flares	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filament eruptions	NONE
Coronal Holes	CH82+ and CH83-

Proton flux	Background levels
Electron flux	Above 10^3pfu threshold (often above 10^4 pfu)

Solar wind and geomagnetic conditions from 2020-09-27T12:00:00 to 2020-10-04T12:00:00

ICME	NONE detected
SW Conditions	|B|: 0.92 - 10.37 nT // Bz: -9.18 nT to 6.03 nT // Speed: 359.6 - 677.9km/s
K-indices	max K-index (Dourbes): 5 max Kp-index (NOAA): 6

All Quiet Alert: OFF until Oct 2nd, ON onwards

Solar Activity

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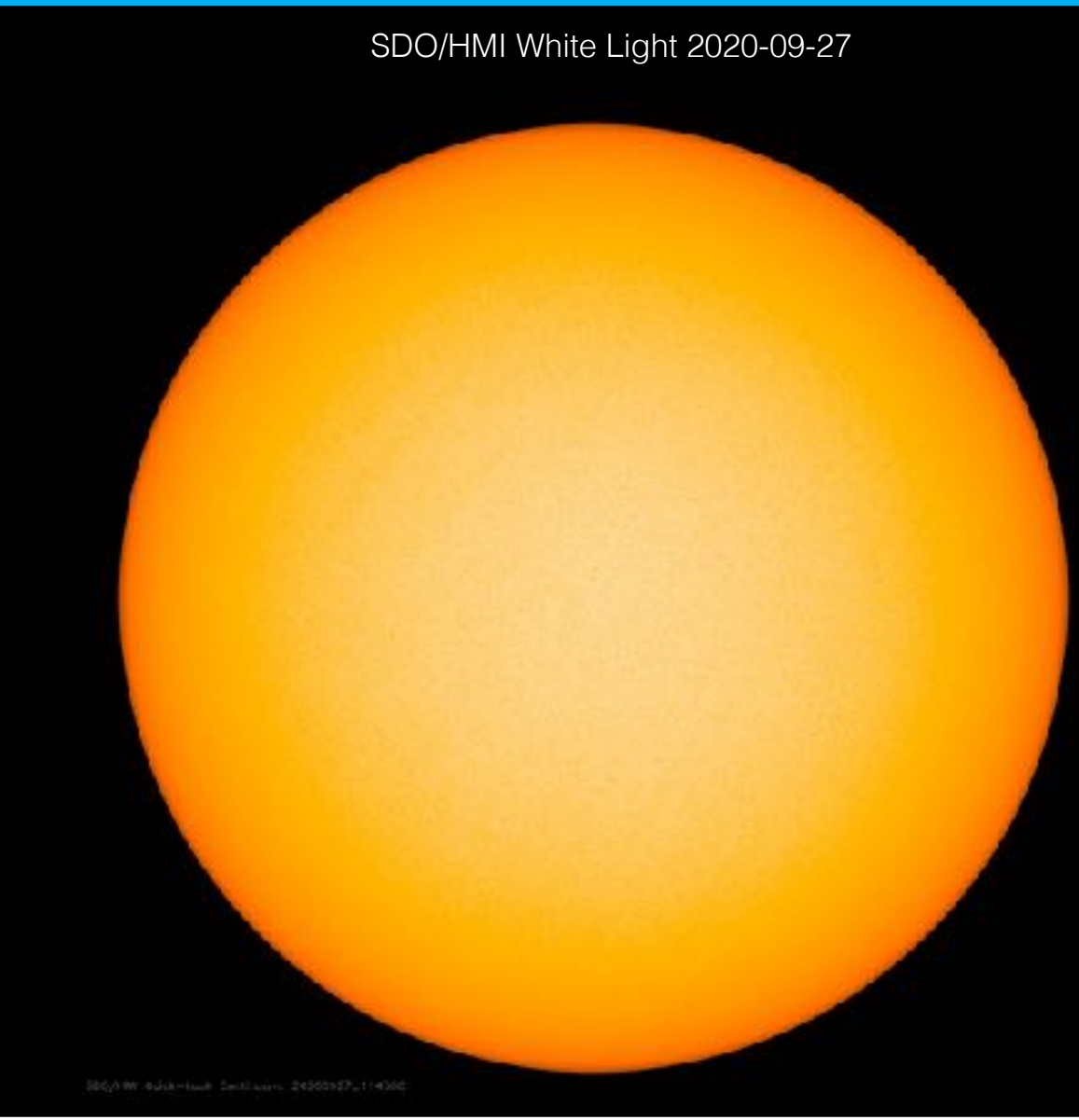
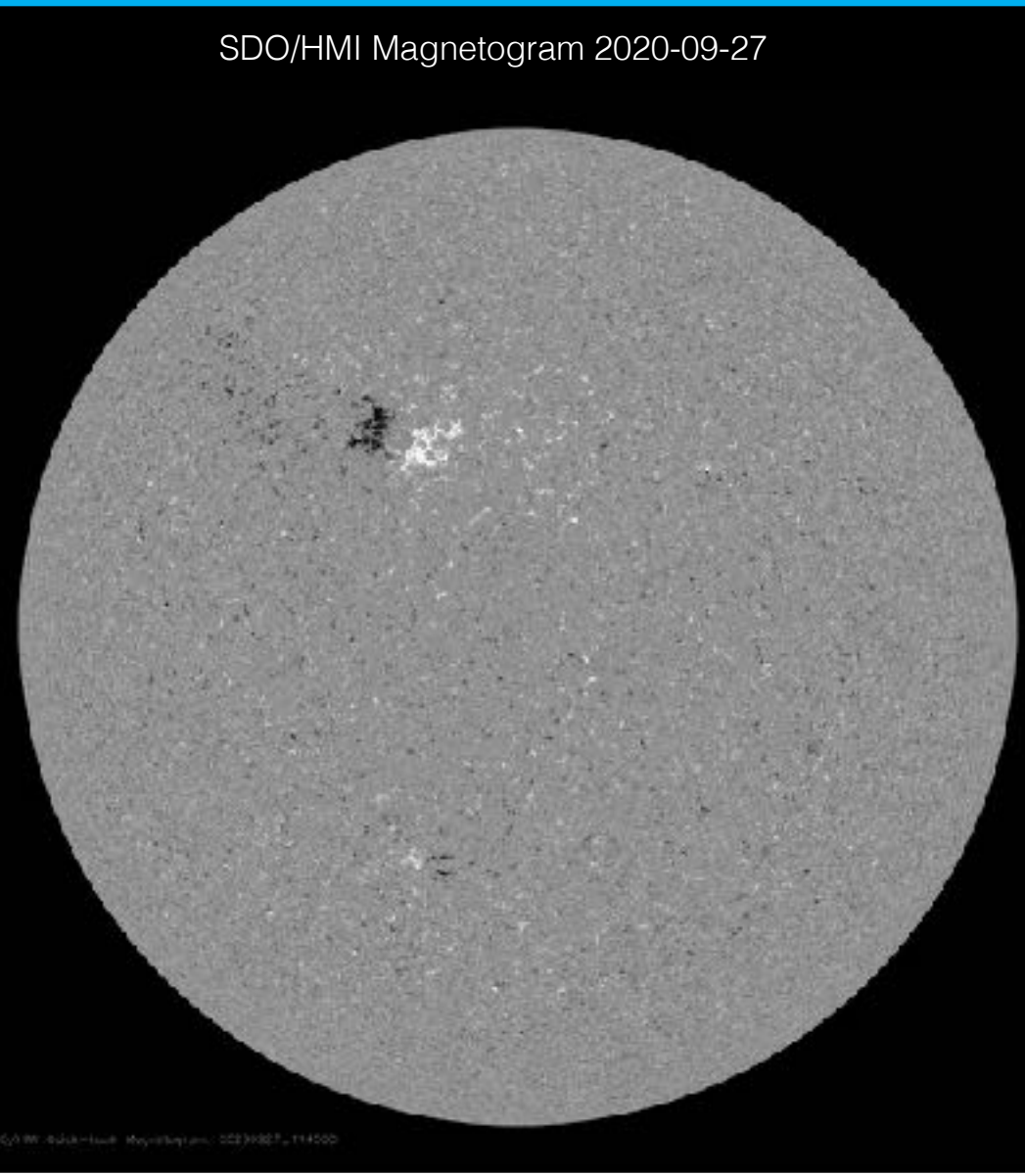
Solar active regions - Sunday

SDO/HMI White Light 2020-09-27

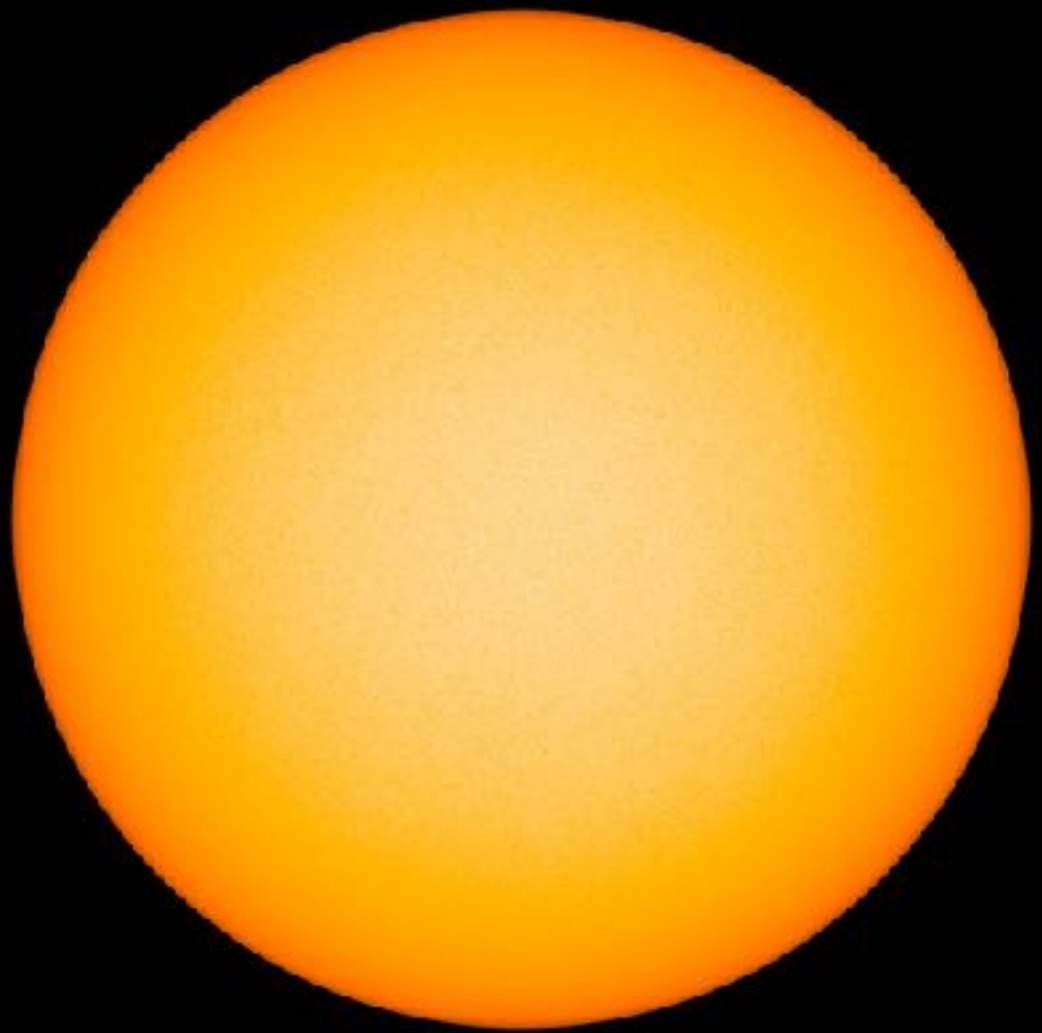


SDO/HMI Magnetogram 2020-09-27

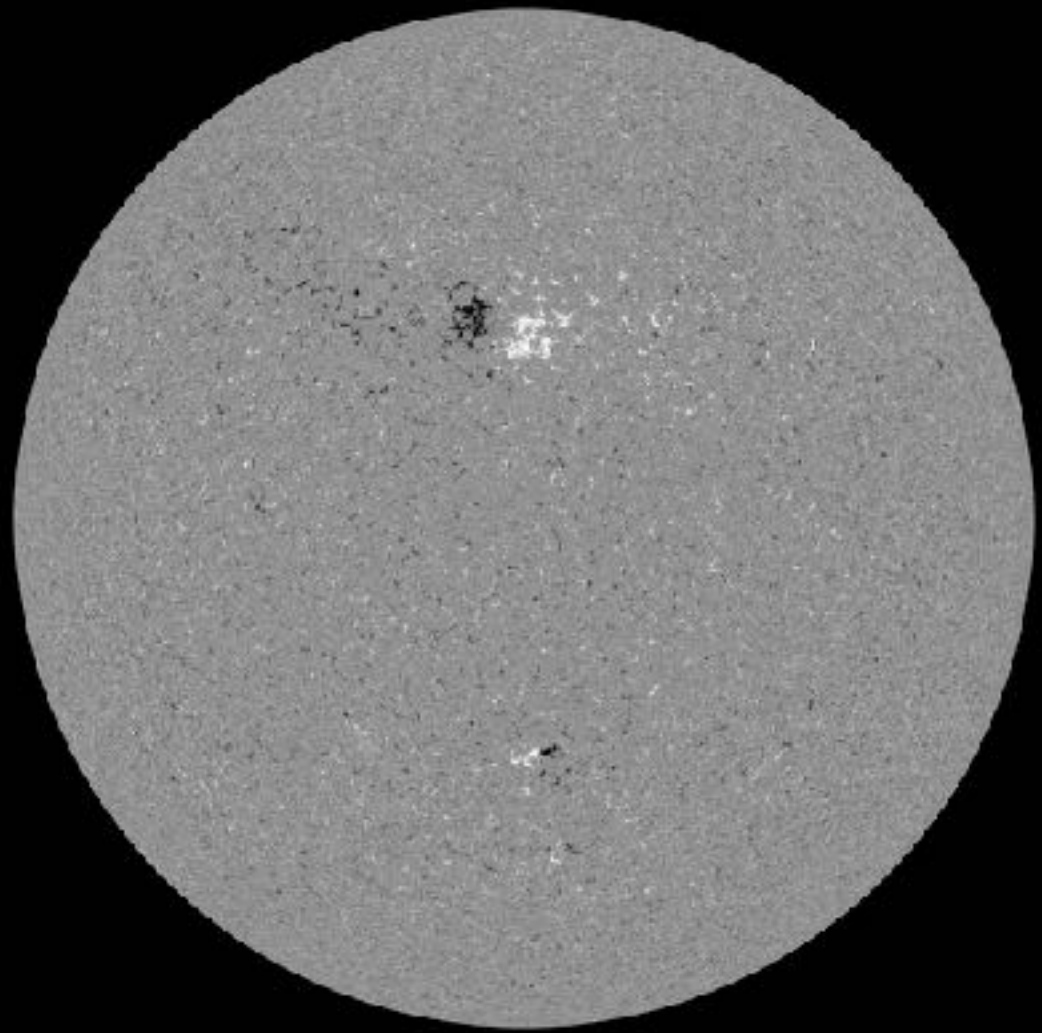


Solar active regions - Monday

SDO/HMI White Light 2020-09-28

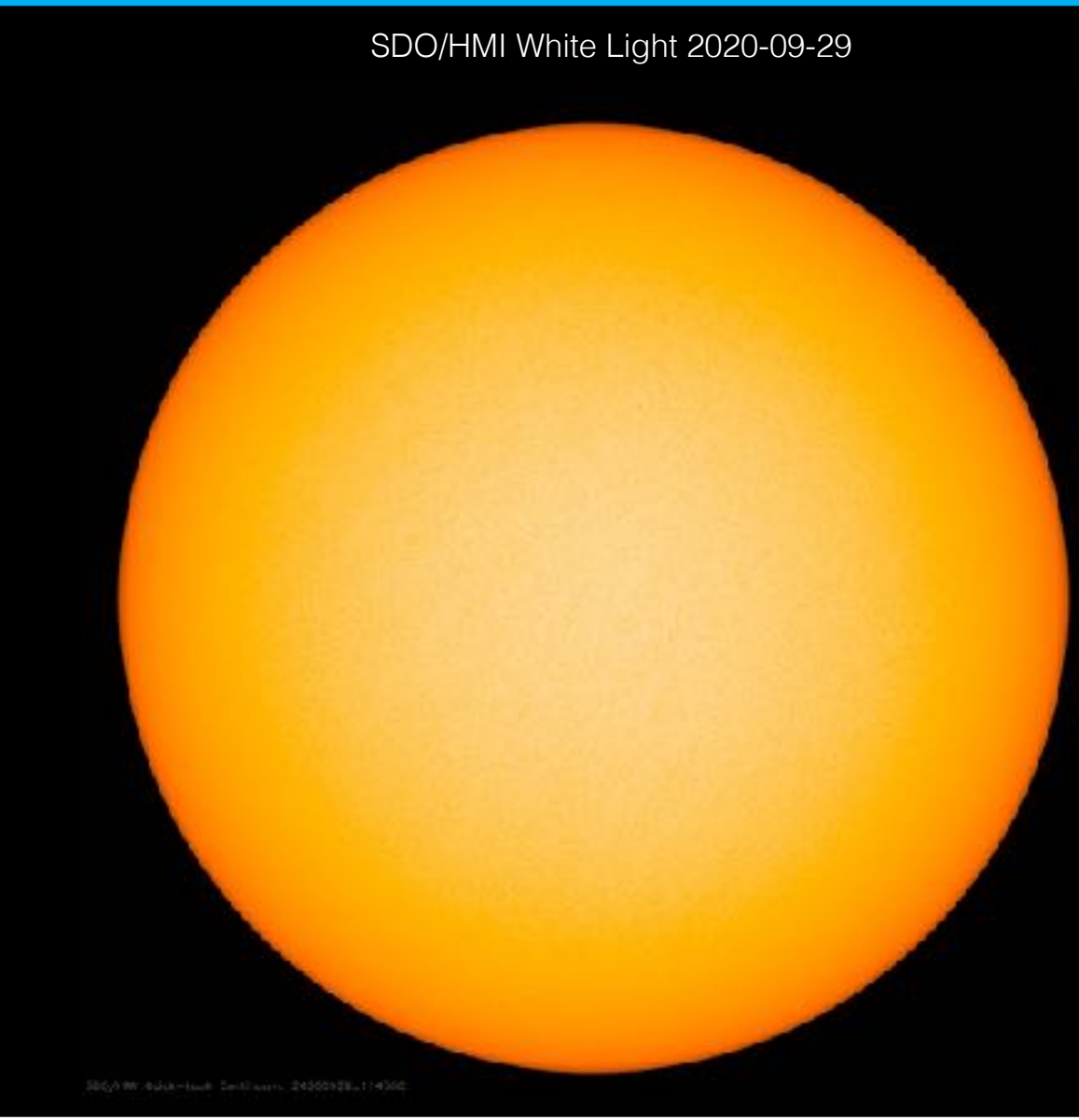


SDO/HMI Magnetogram 2020-09-28

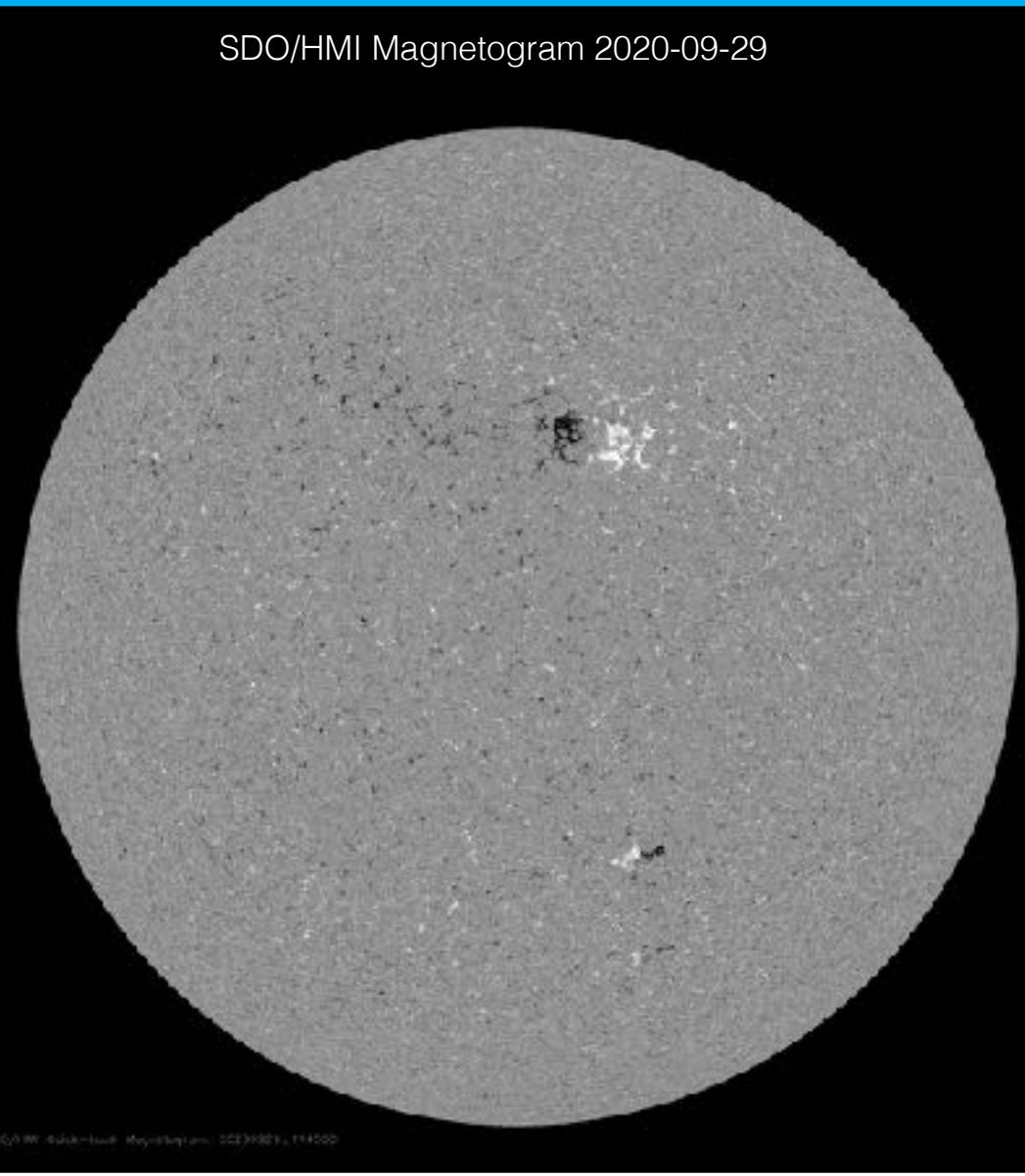


Solar active regions - Tuesday

SDO/HMI White Light 2020-09-29

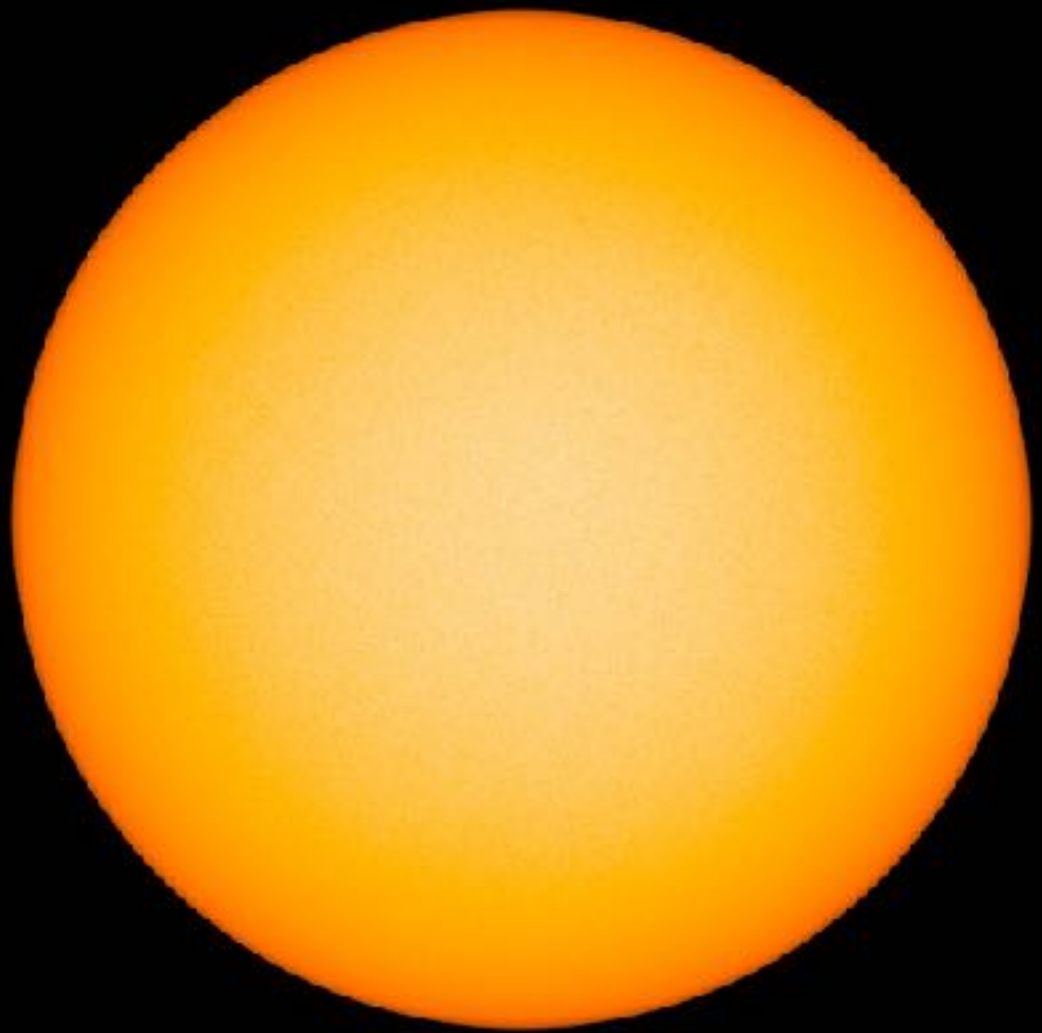


SDO/HMI Magnetogram 2020-09-29

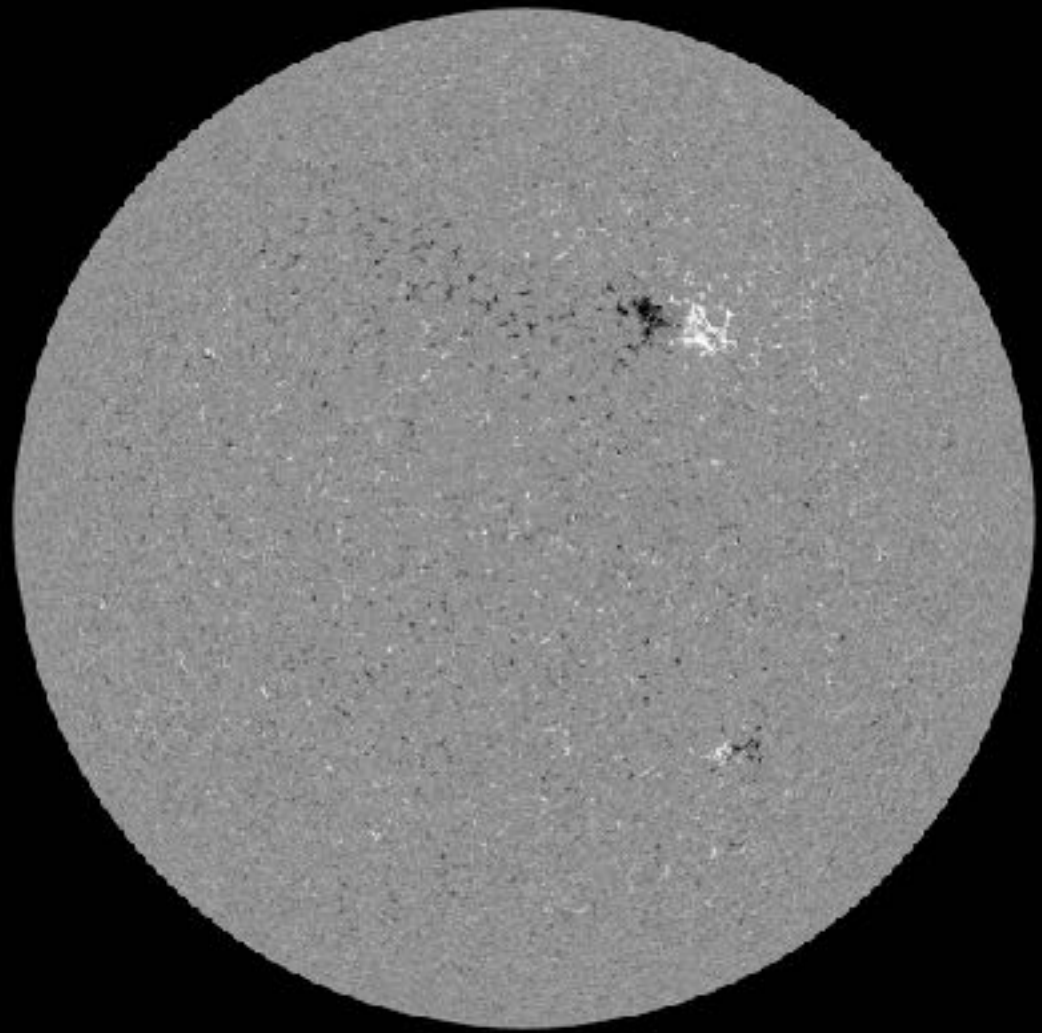


Solar active regions - Wednesday

SDO/HMI White Light 2020-09-30

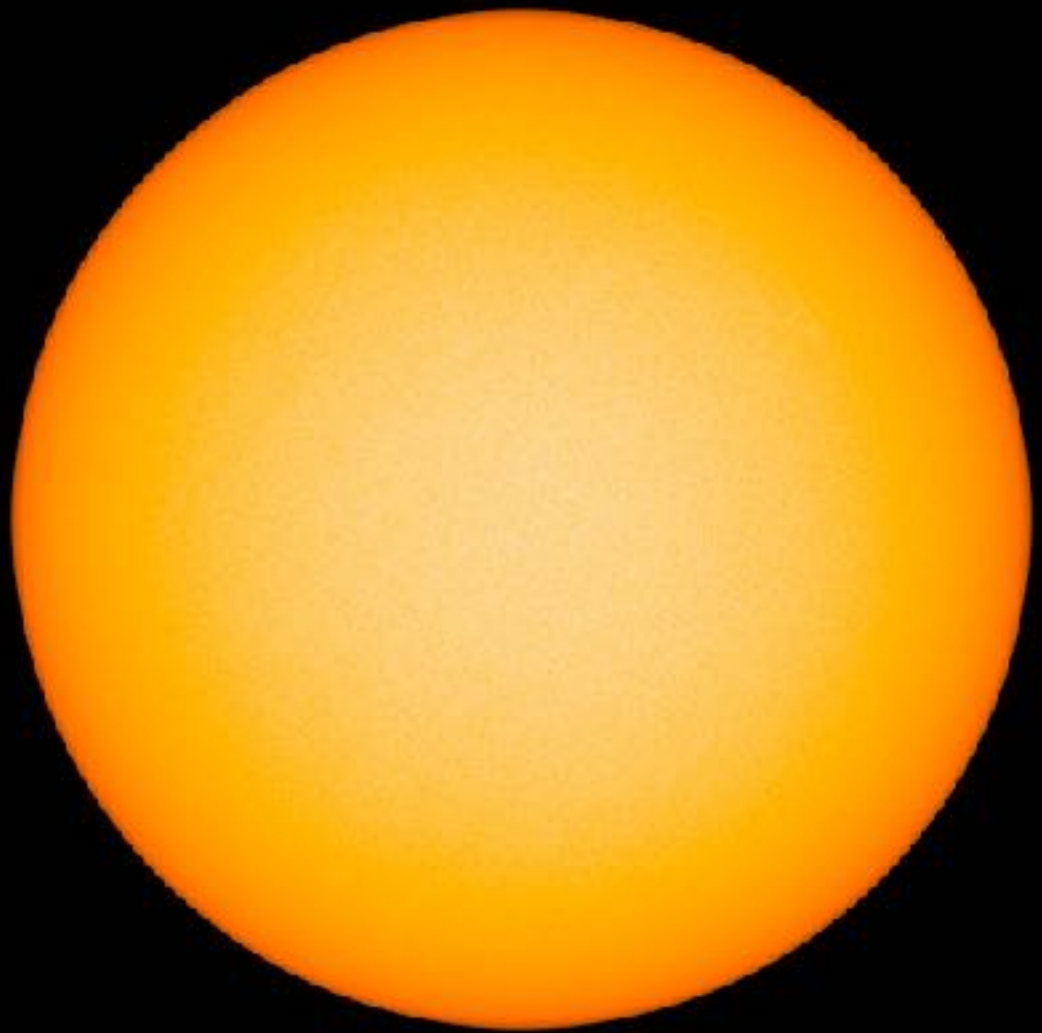


SDO/HMI Magnetogram 2020-09-30

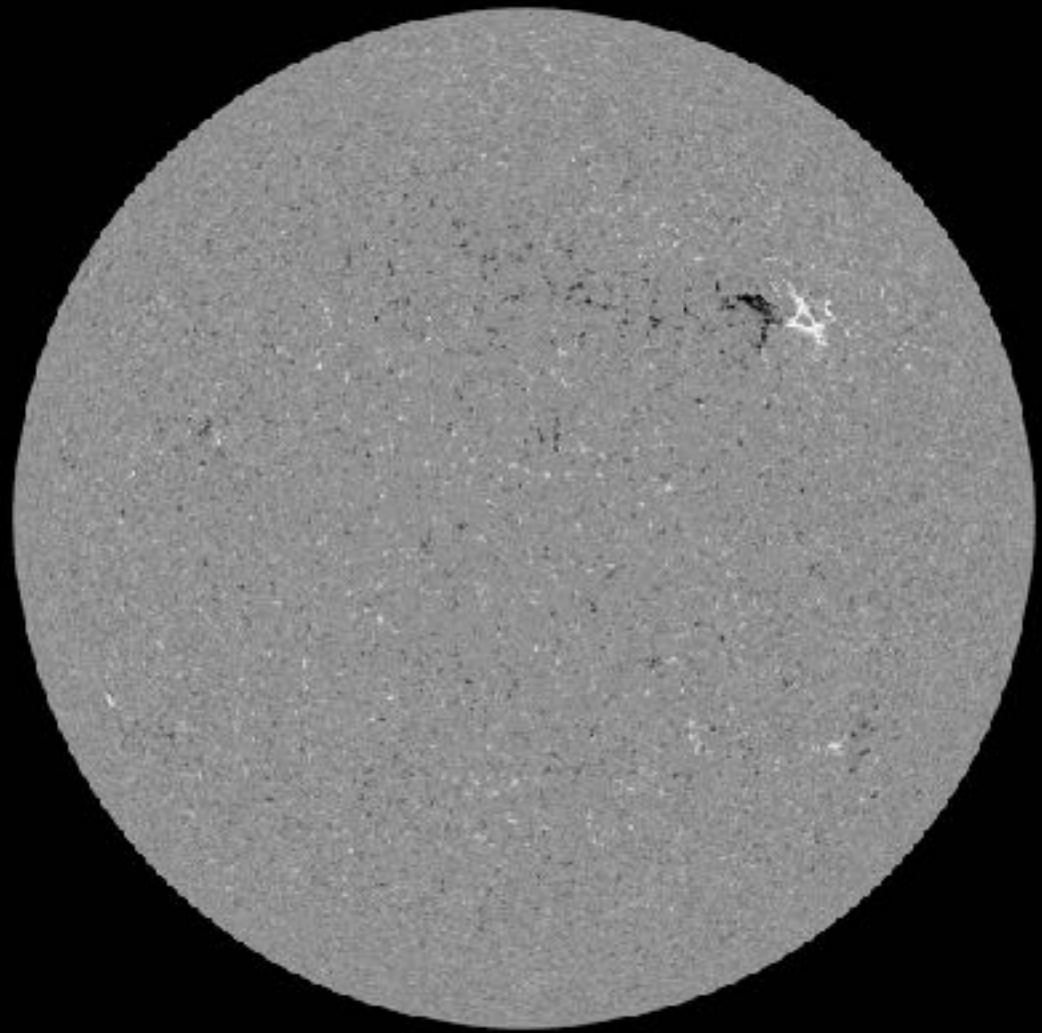


Solar active regions - Thursday

SDO/HMI White Light 2020-10-01

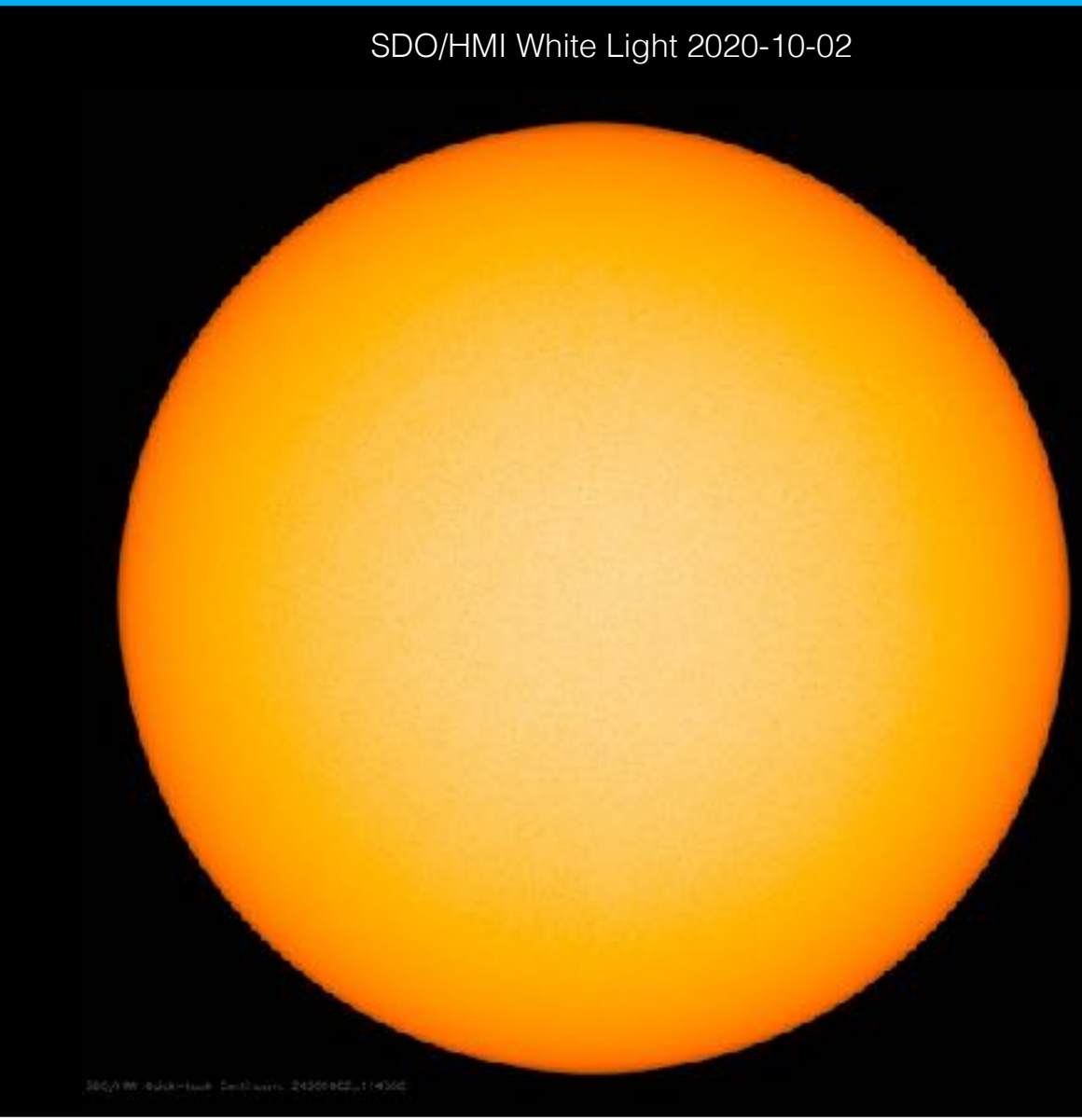


SDO/HMI Magnetogram 2020-10-01

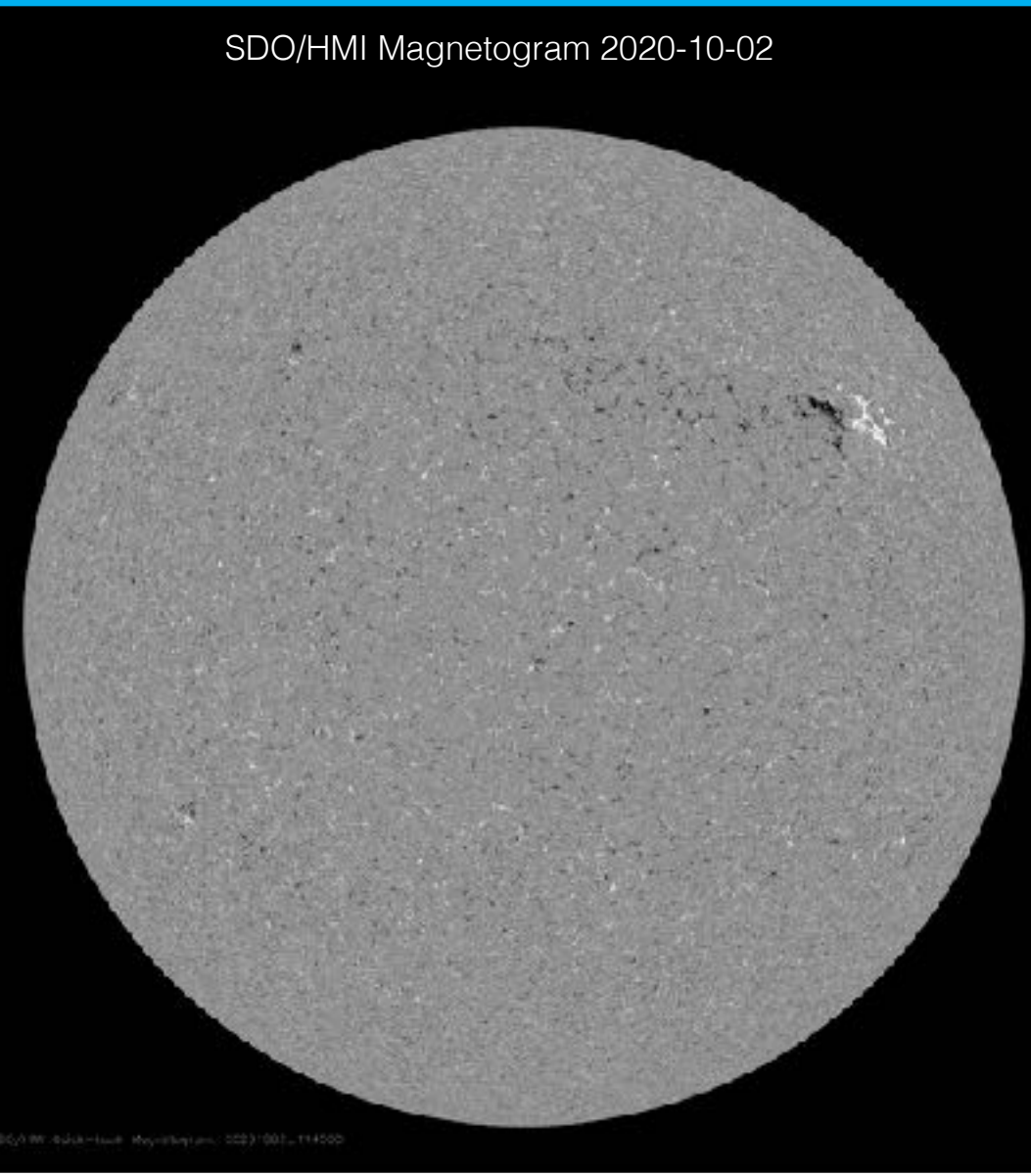


Solar active regions - Friday

SDO/HMI White Light 2020-10-02

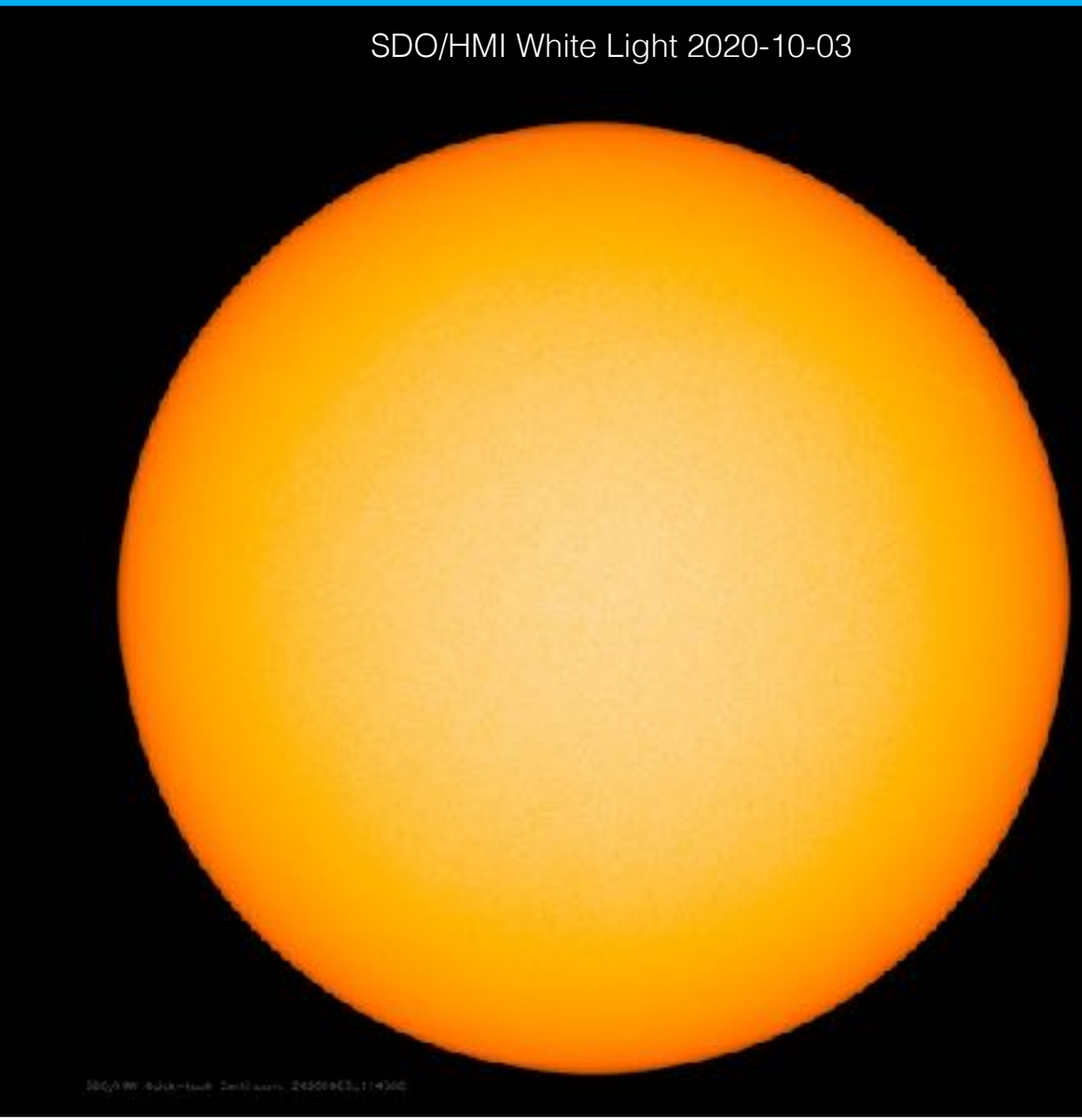


SDO/HMI Magnetogram 2020-10-02

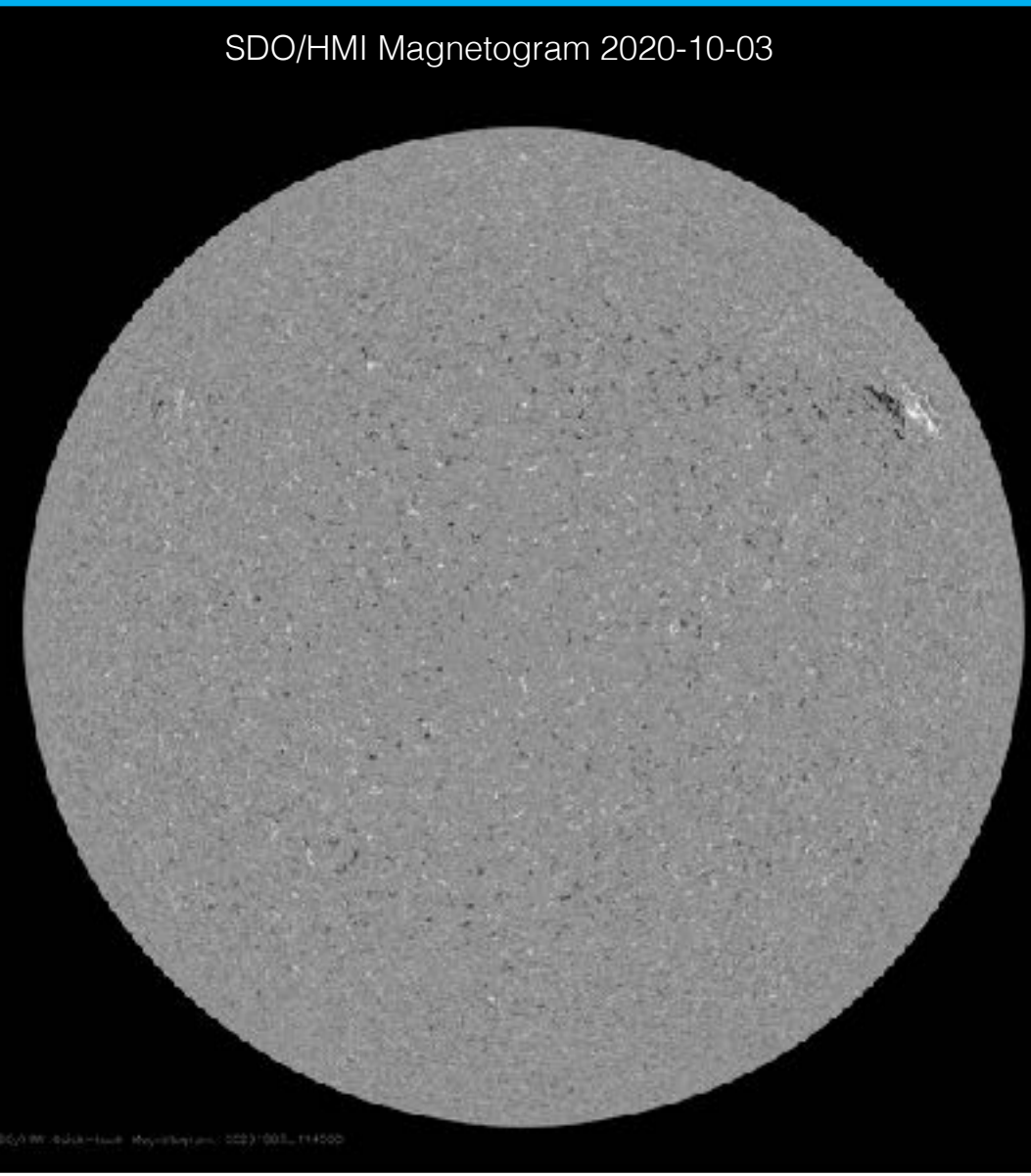


Solar active regions - Saturday

SDO/HMI White Light 2020-10-03

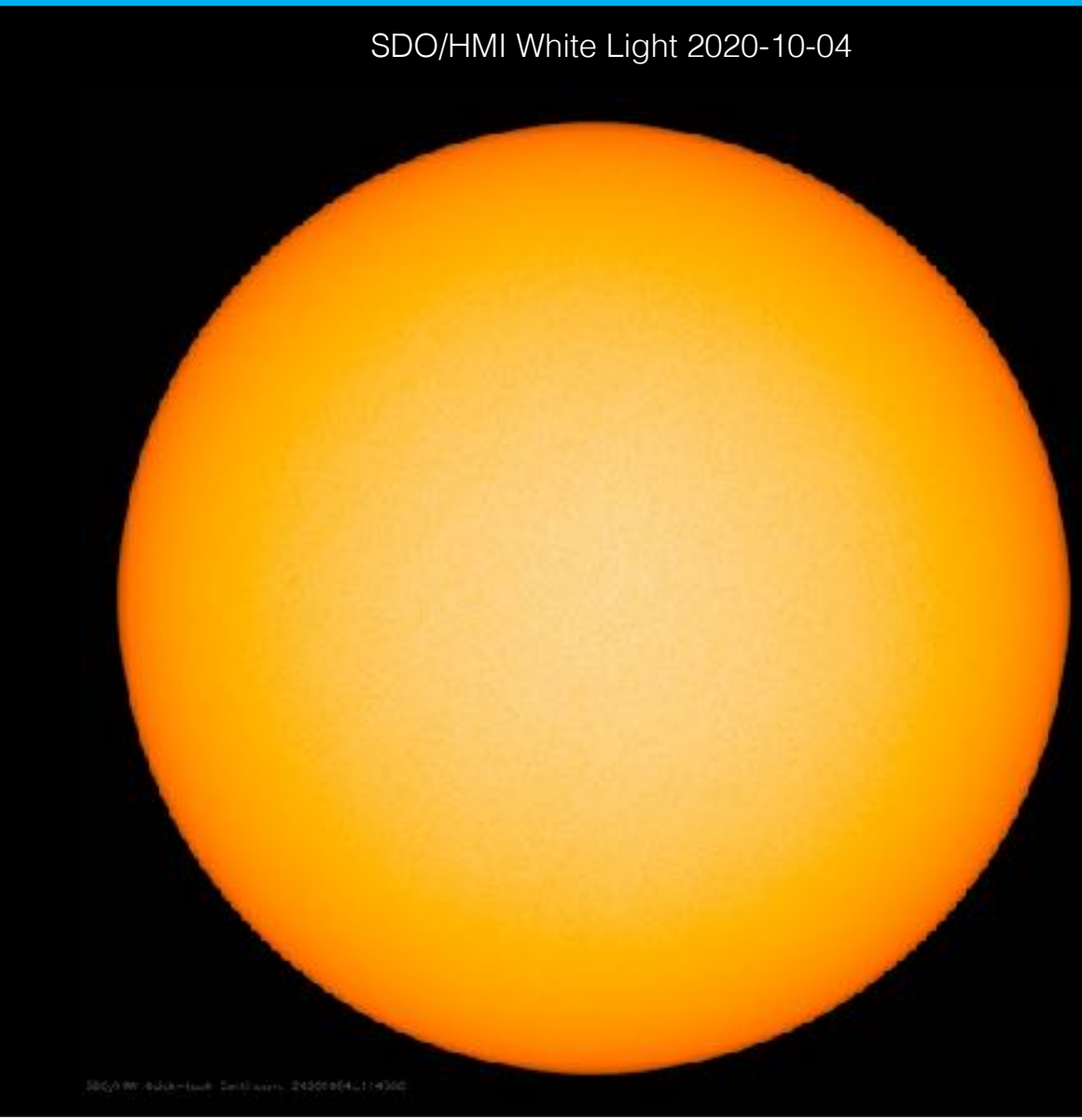


SDO/HMI Magnetogram 2020-10-03

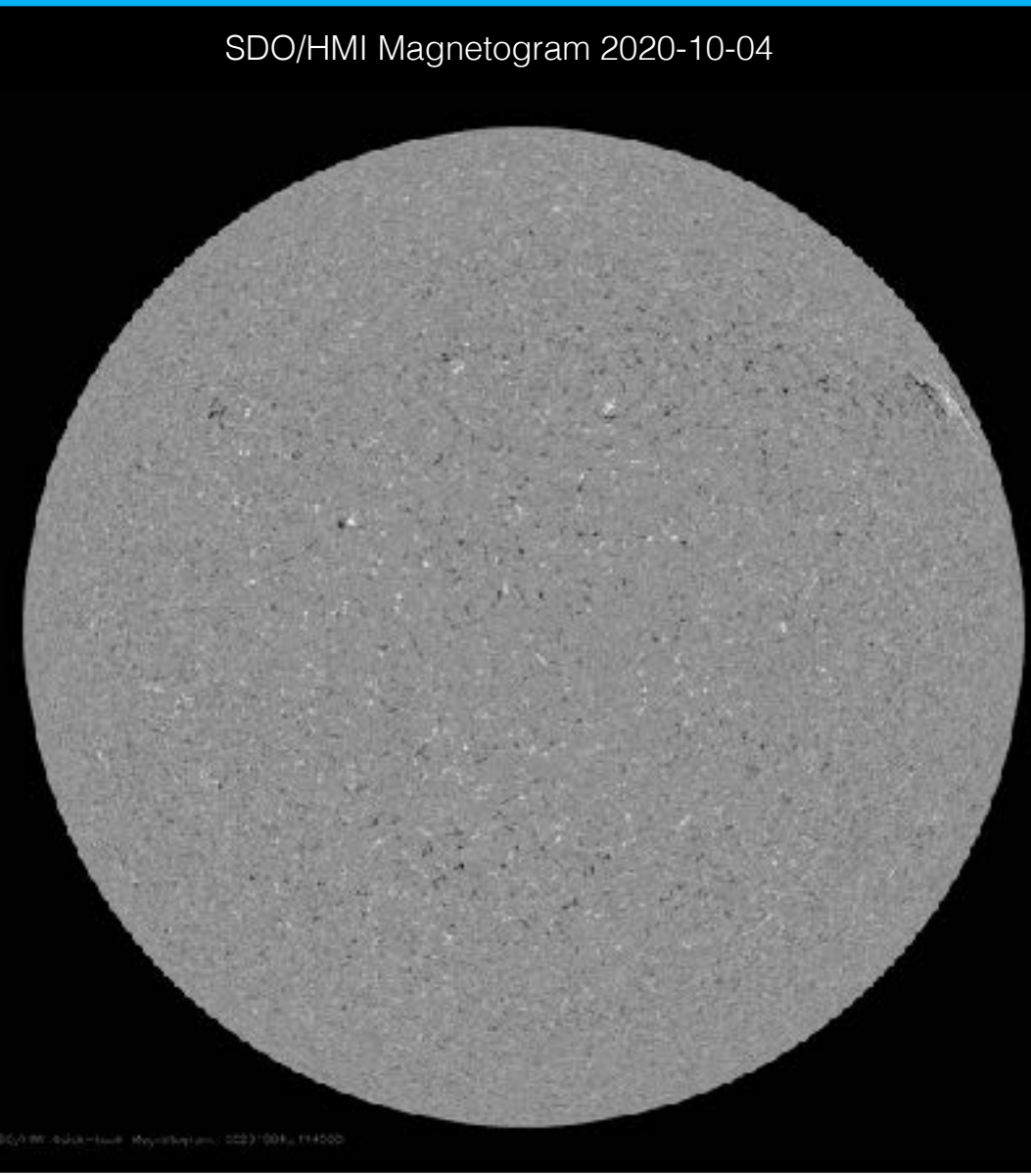


Solar active regions - Sunday

SDO/HMI White Light 2020-10-04

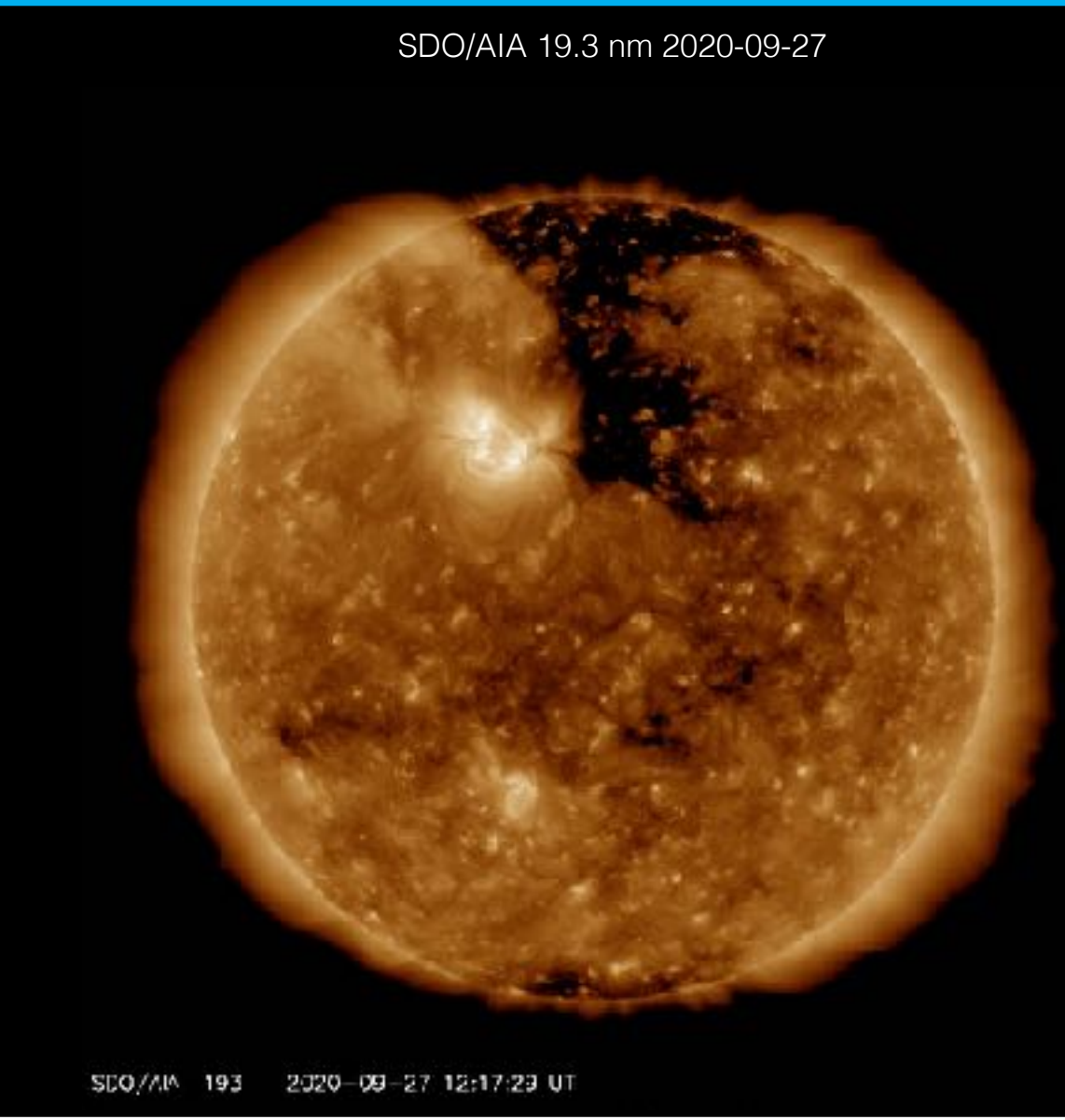


SDO/HMI Magnetogram 2020-10-04

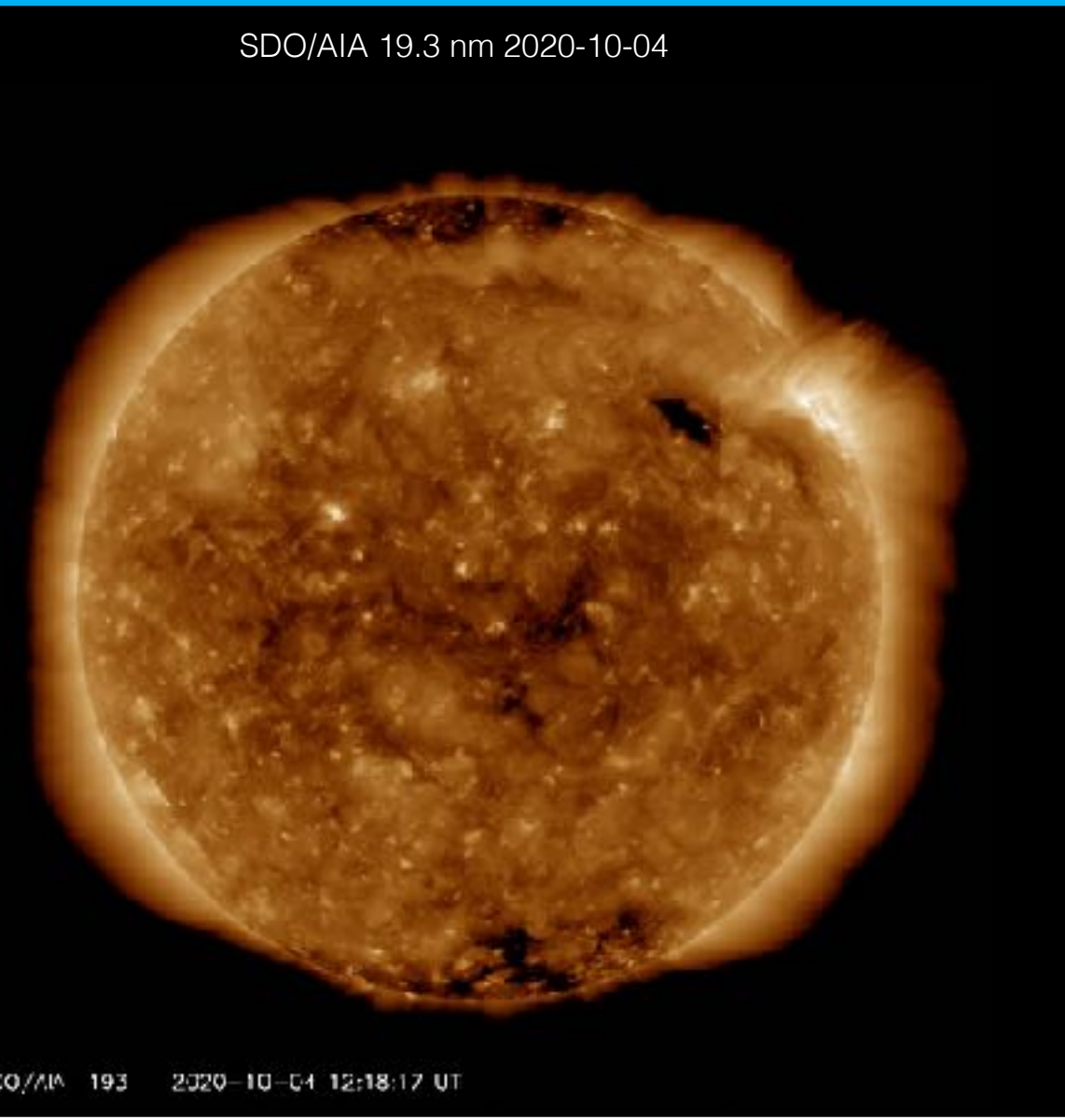


Coronal holes (CH82+ and CH83-)

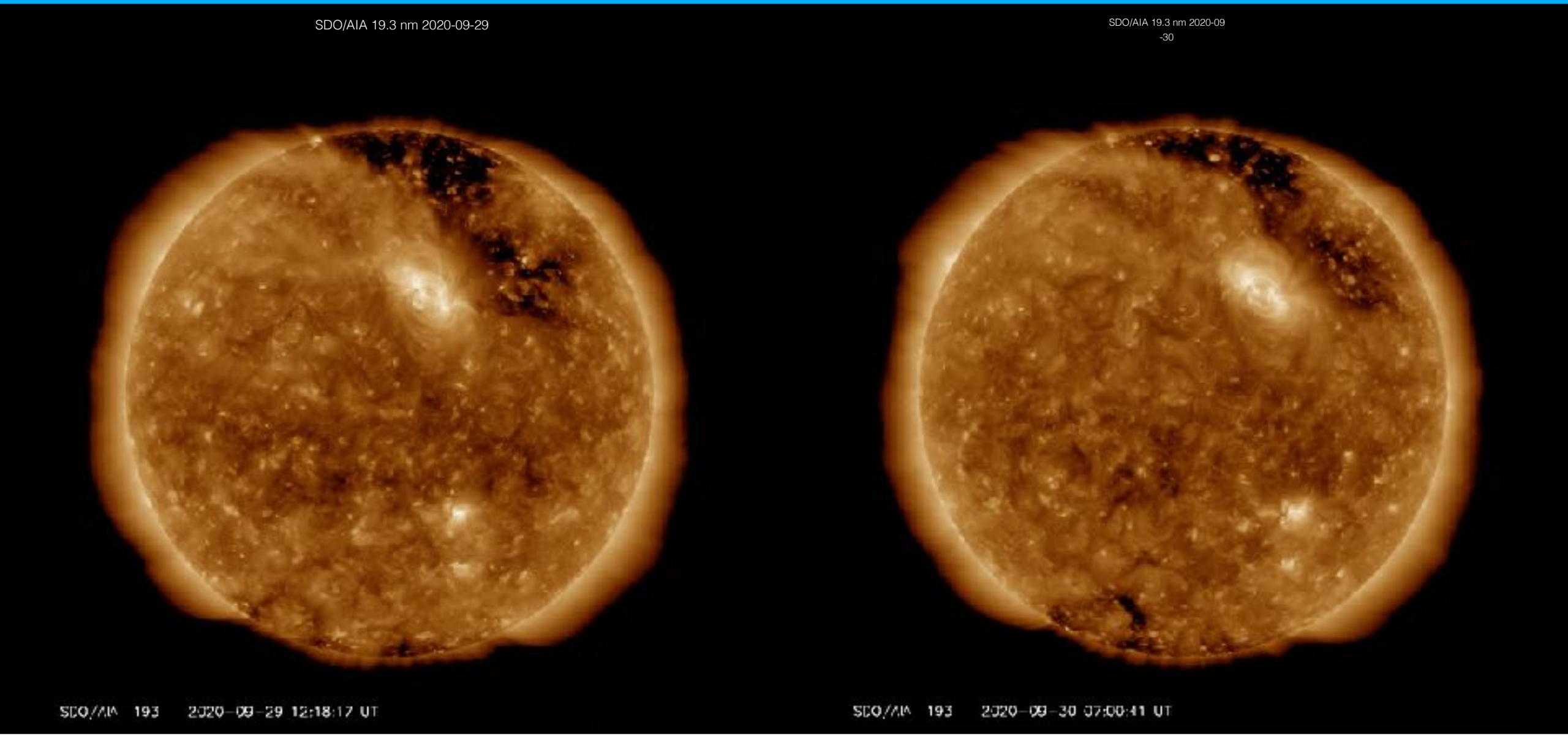
SDO/AIA 19.3 nm 2020-09-27



SDO/AIA 19.3 nm 2020-10-04

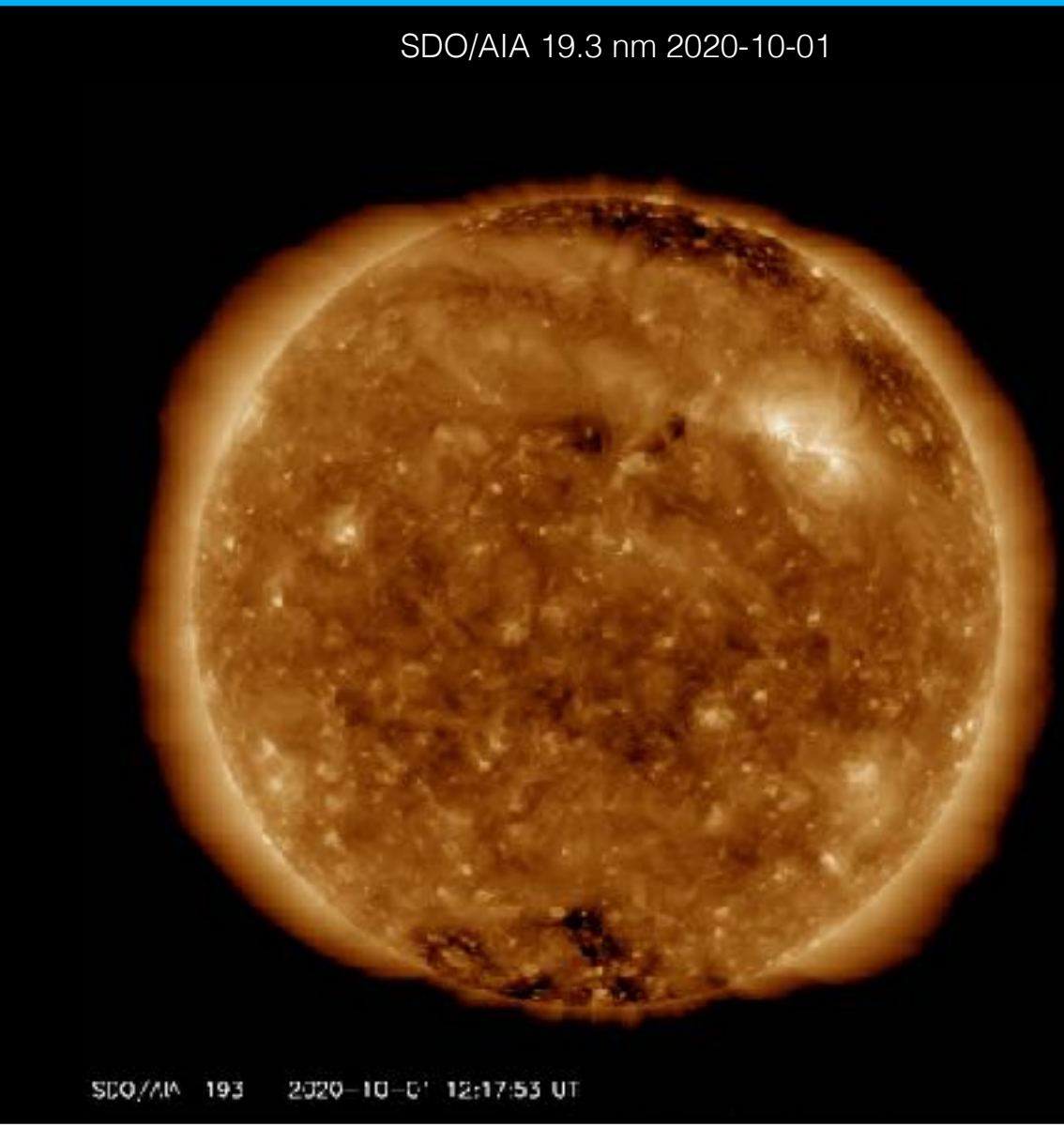


Coronal holes: CH82+

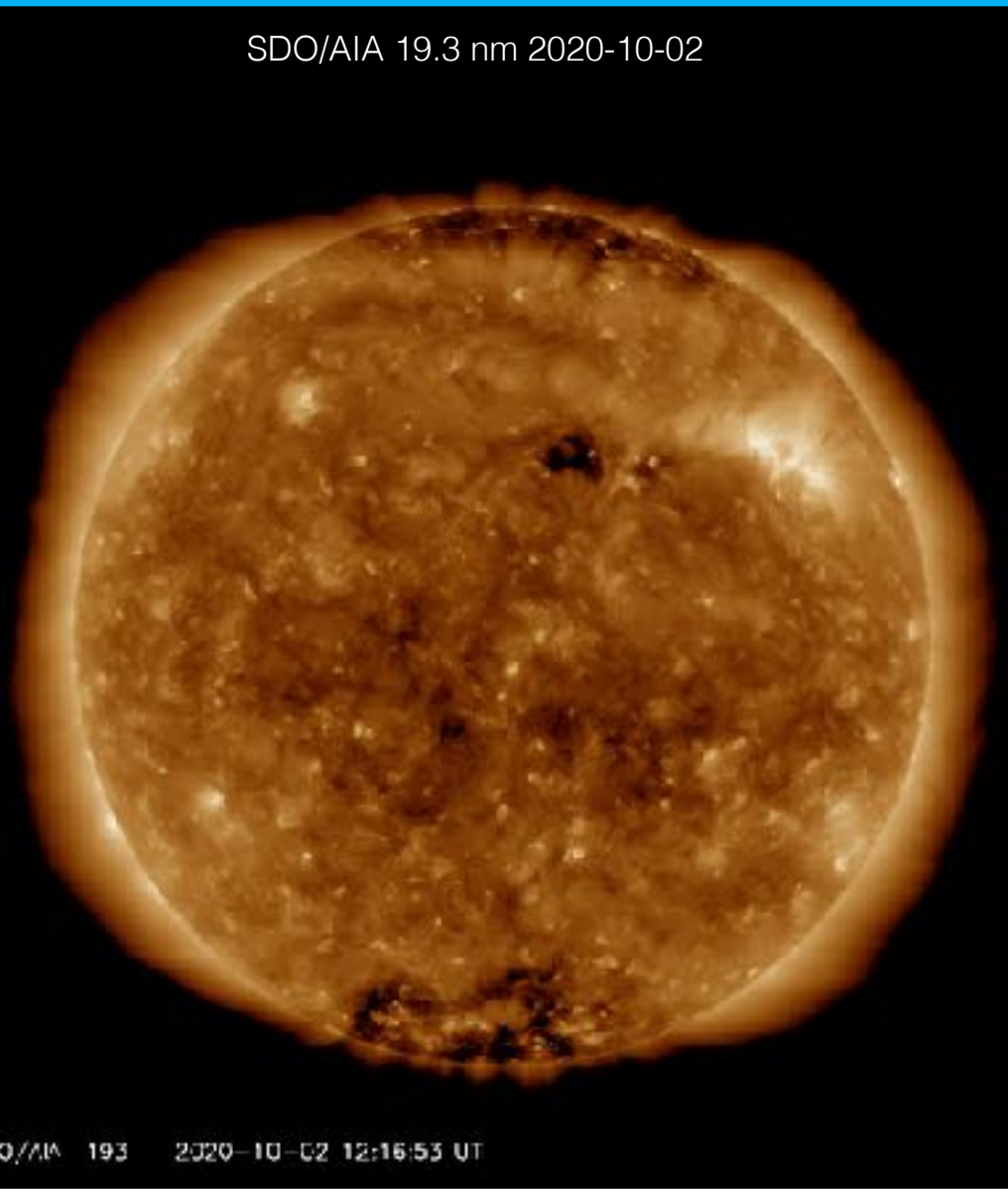


Coronal holes: CH 83-

SDO/AIA 19.3 nm 2020-10-01

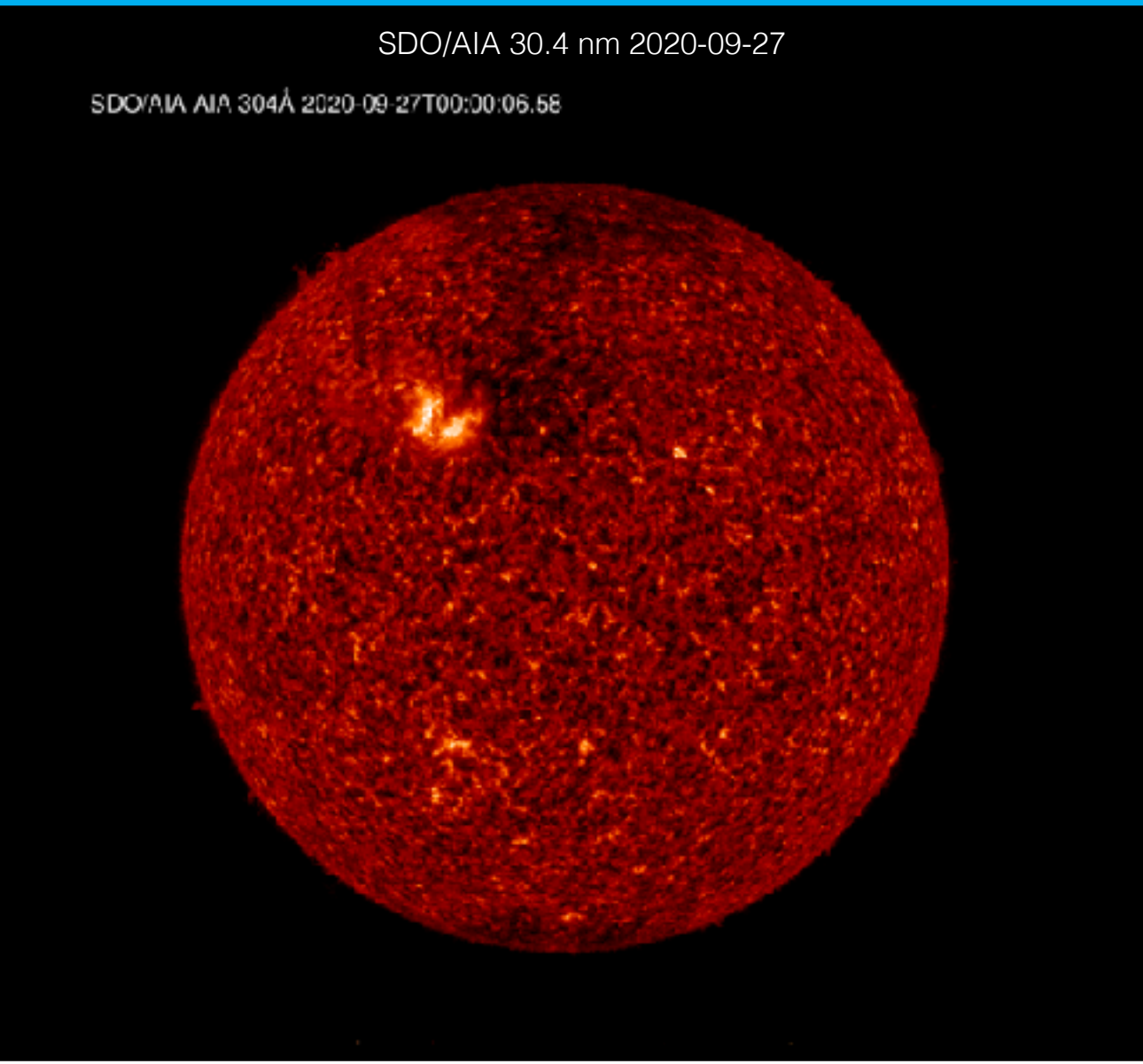


SDO/AIA 19.3 nm 2020-10-02

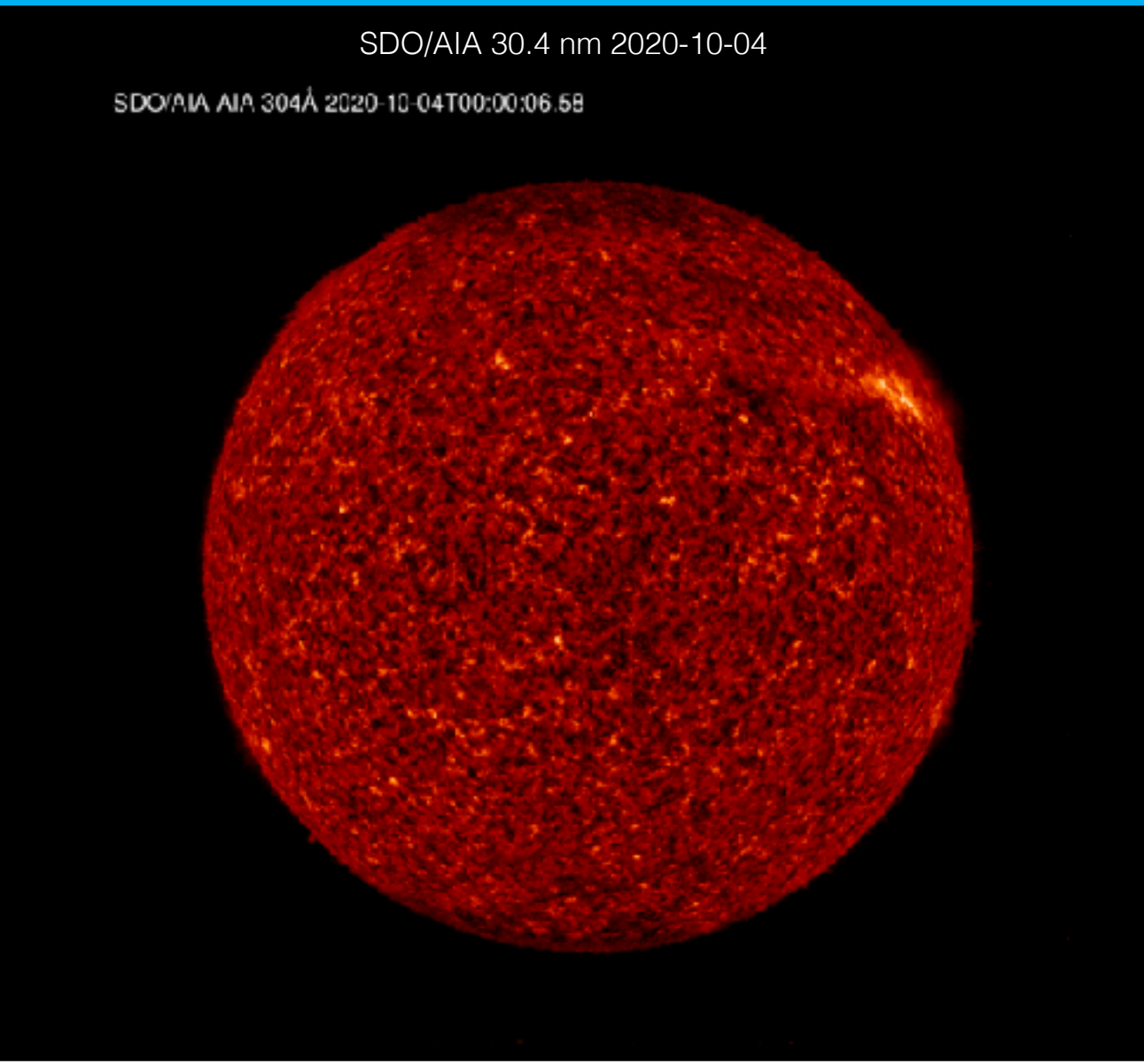


Filaments

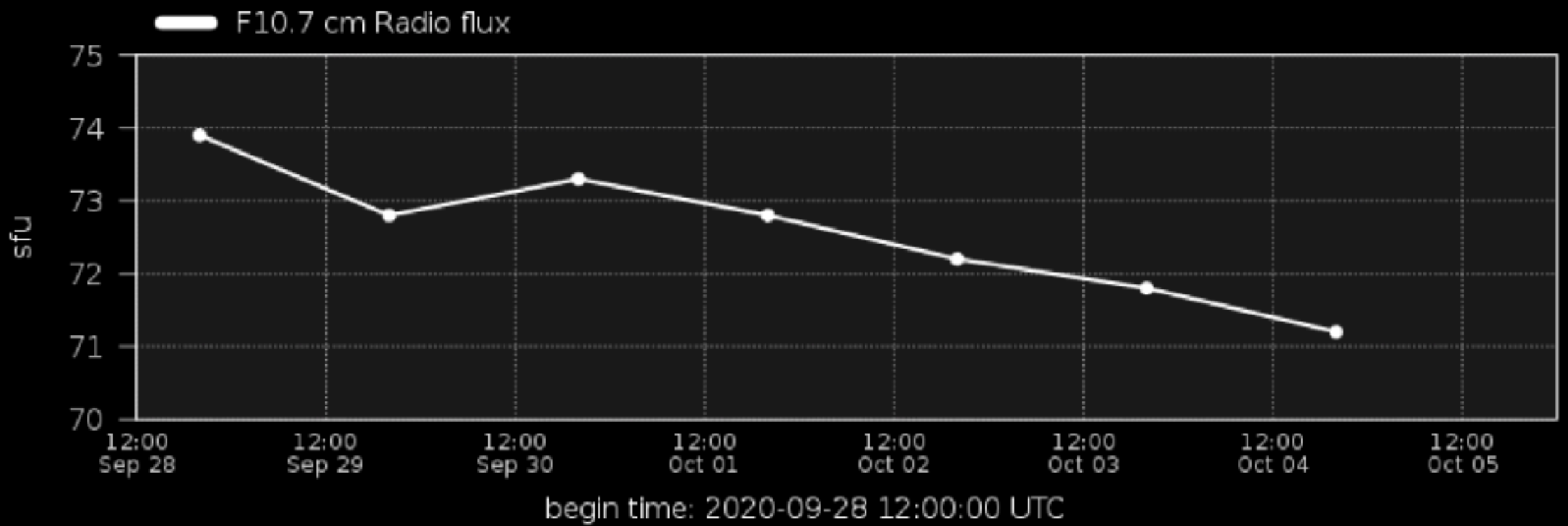
SDO/AIA 30.4 nm 2020-09-27



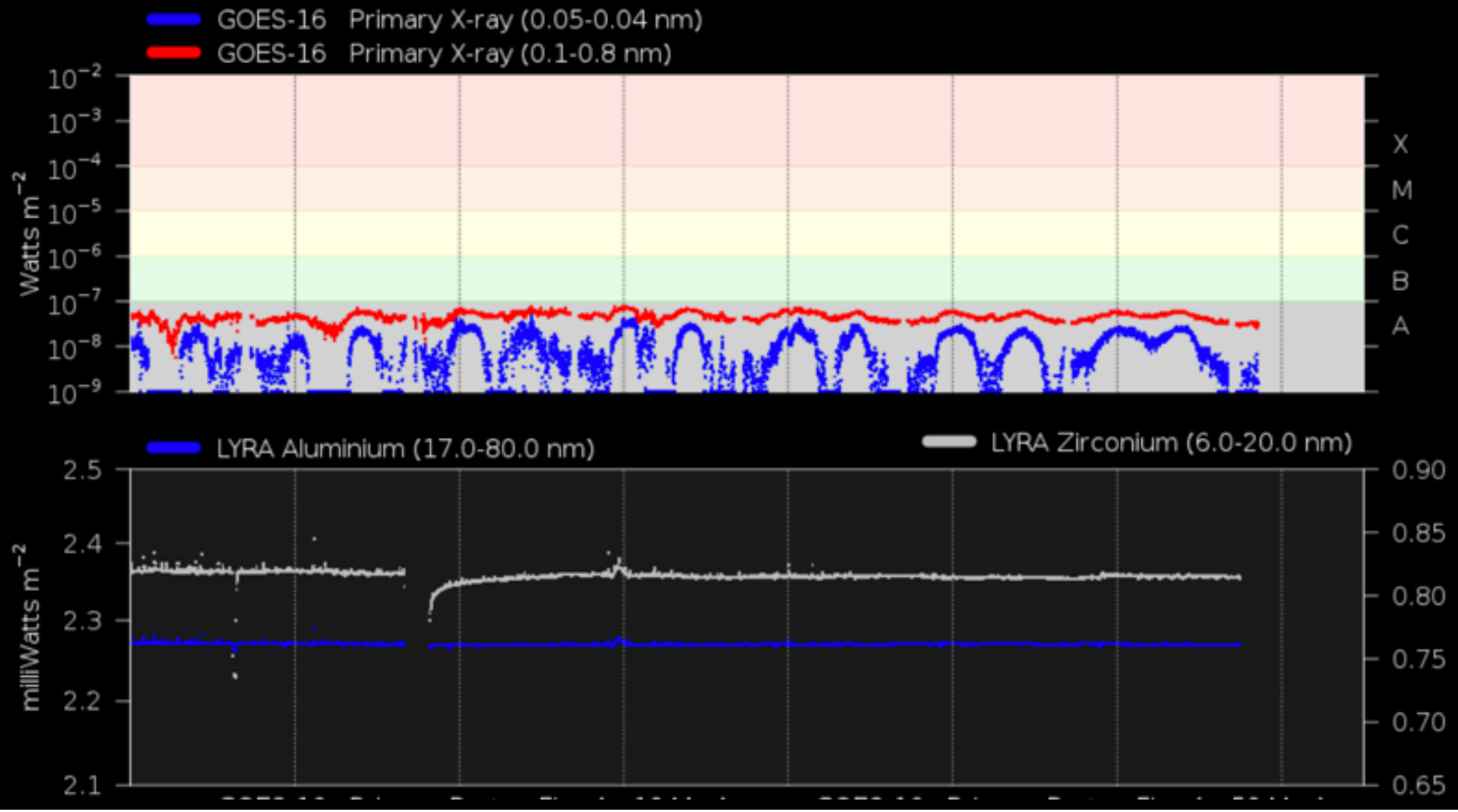
SDO/AIA 30.4 nm 2020-10-04



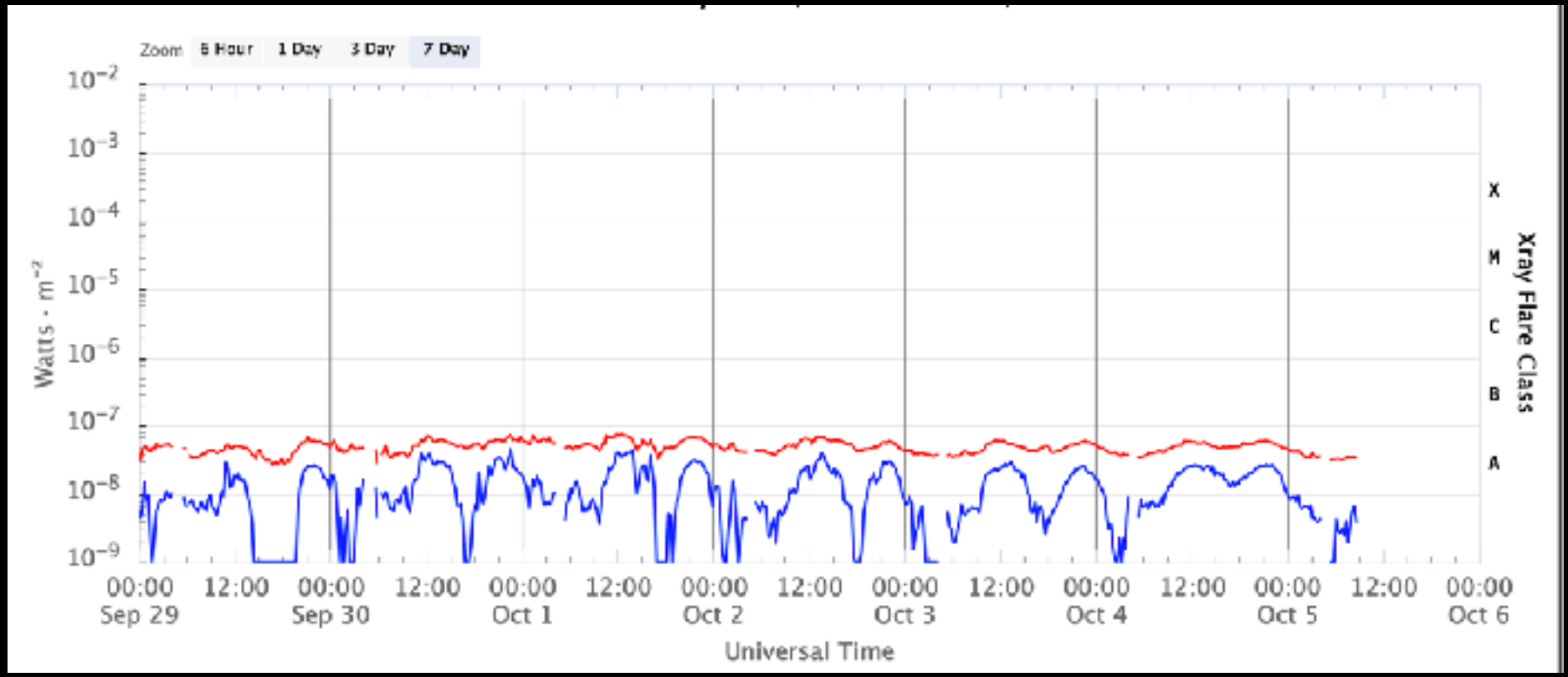
Solar F10.7cm radio flux



Solar X-Ray and UV flux

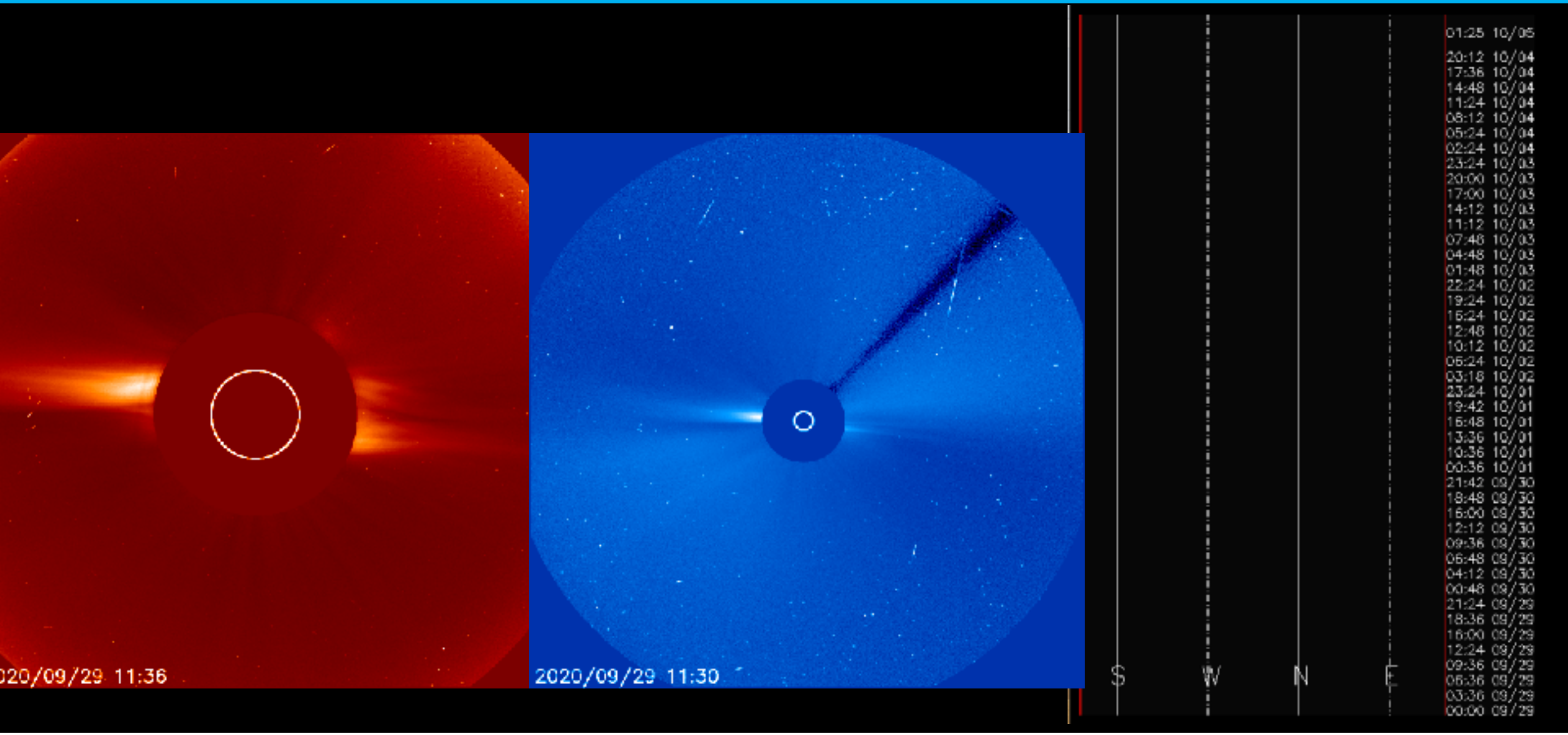


Flaring activity

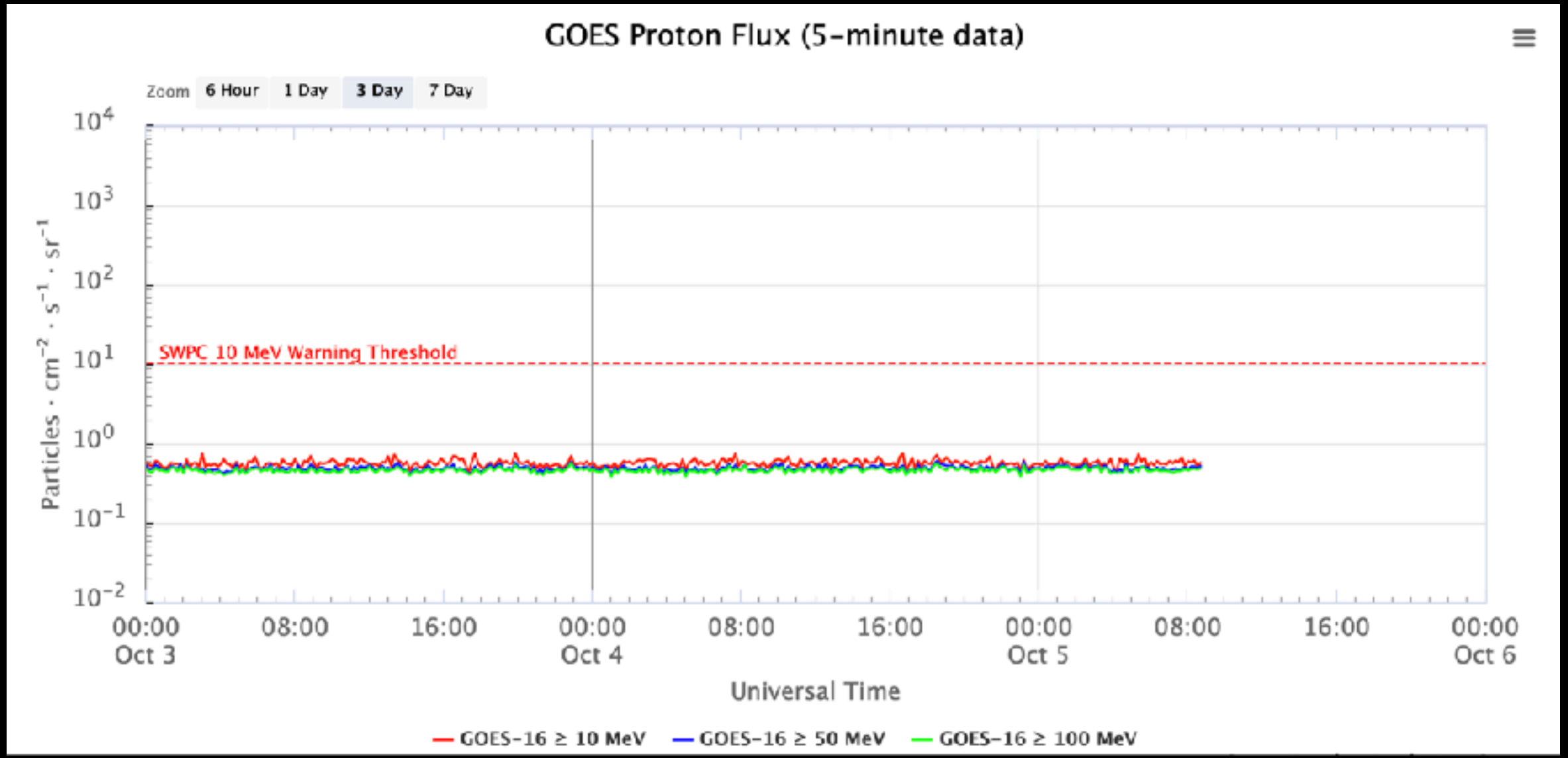


Issue date	2020-09-28	2020-09-29	2020-09-30	2020-10-01	2020-10-02	2020-10-03	2020-10-04	2020-10-05
Probability	01|01|01	01|01|01	01|01|01	01|00|01	01|01|01	01|01|01	01|01|01	01|01|01
Observed	00|00|00|00	00|00|00|00	00|00|00|00	00|00|00|00	00|00|00|00	00|00|00|00	00|00|00|00	00|00|00|00

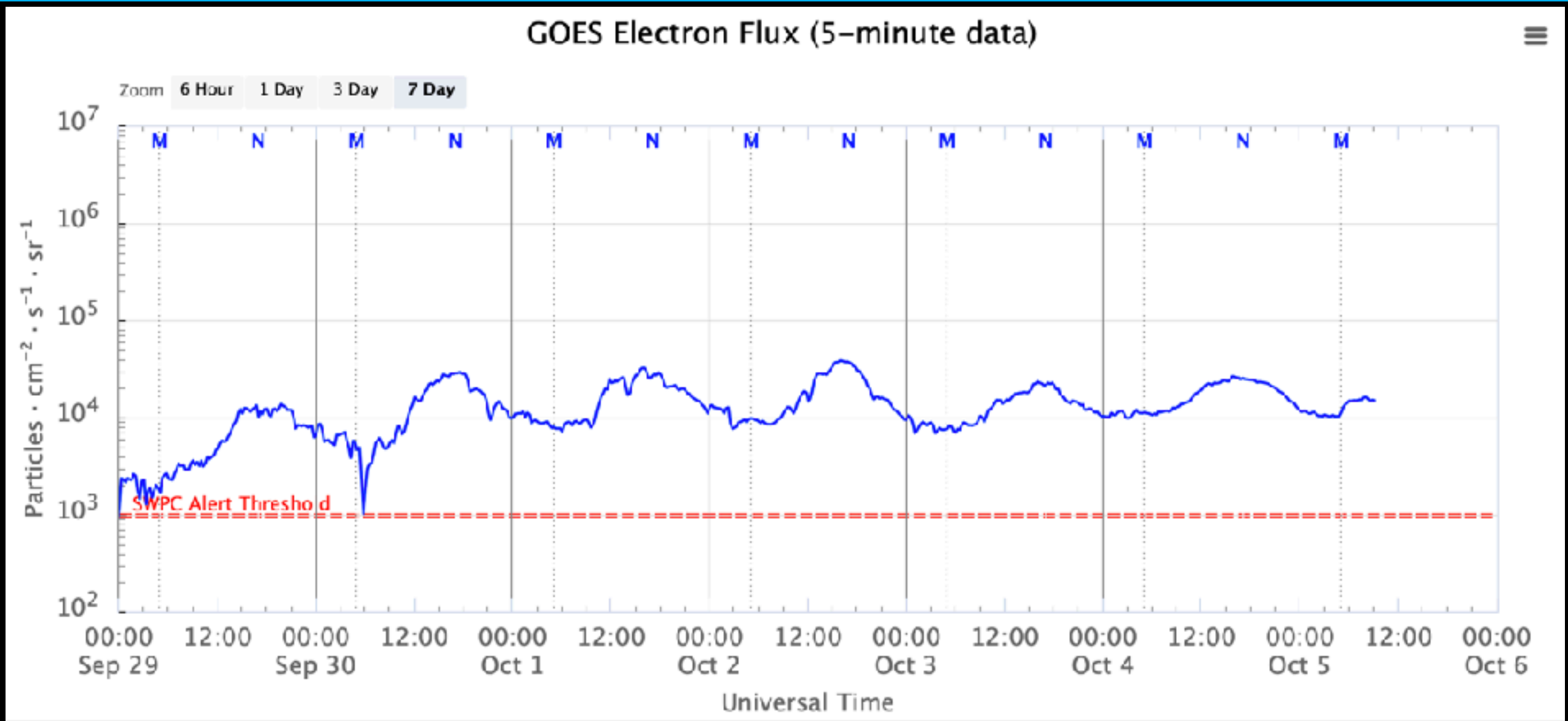
Coronal Mass Ejections



Solar proton flux



GOES 16 > 2MeV electron flux



Solar Wind and Geomagnetic Activity

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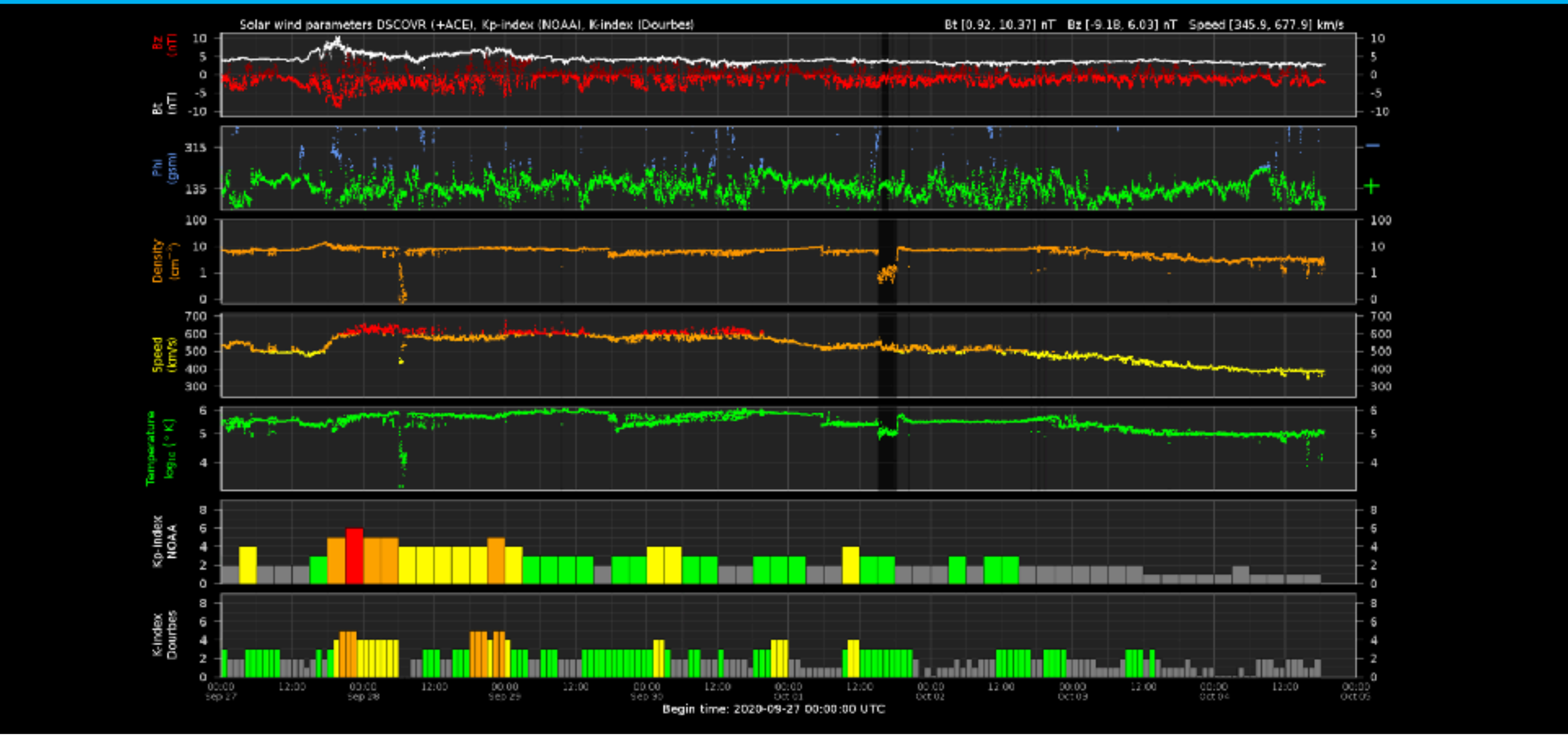
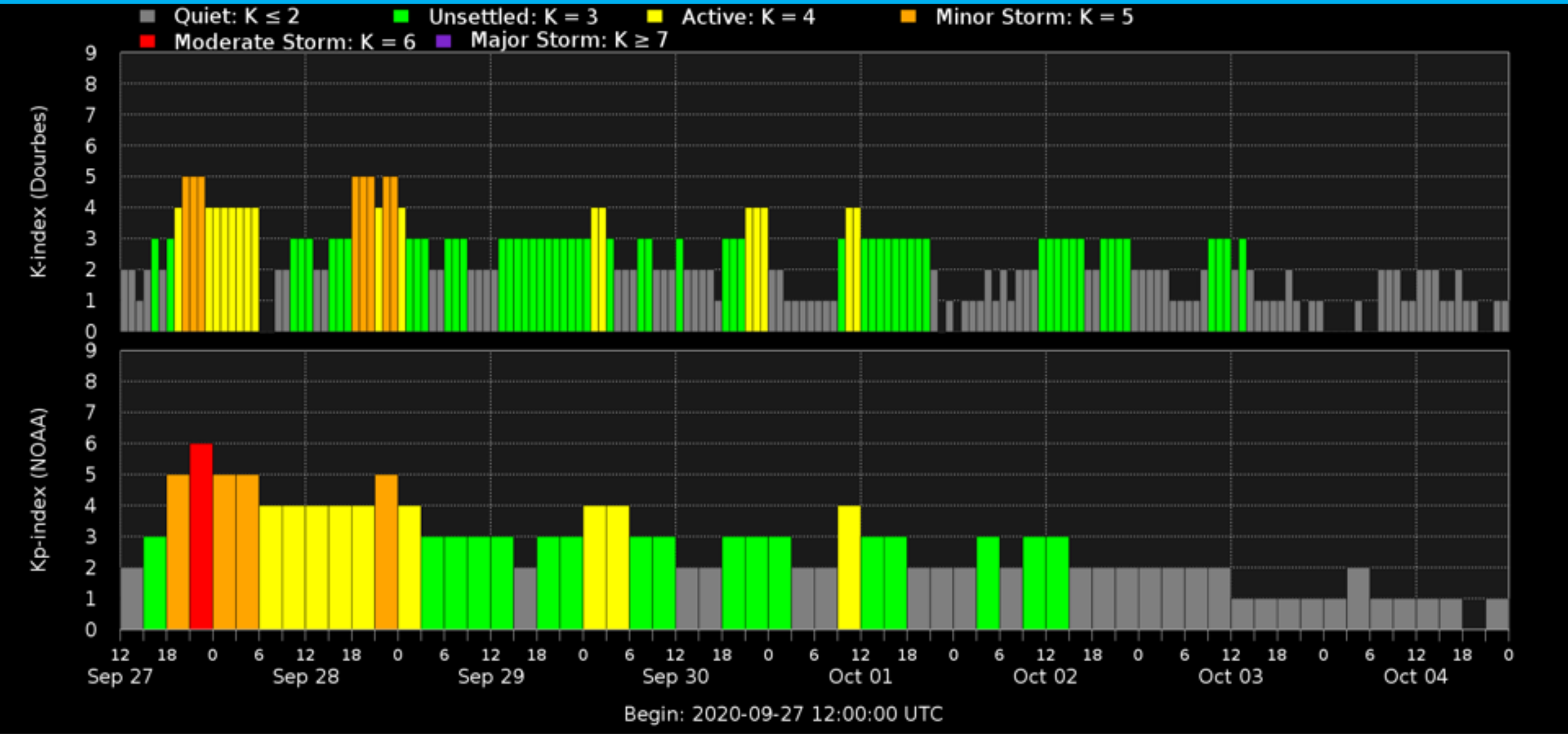
Solar wind parameters (ACE and DSCOVR data)



Geomagnetic activity (K-indexes)



Outlook

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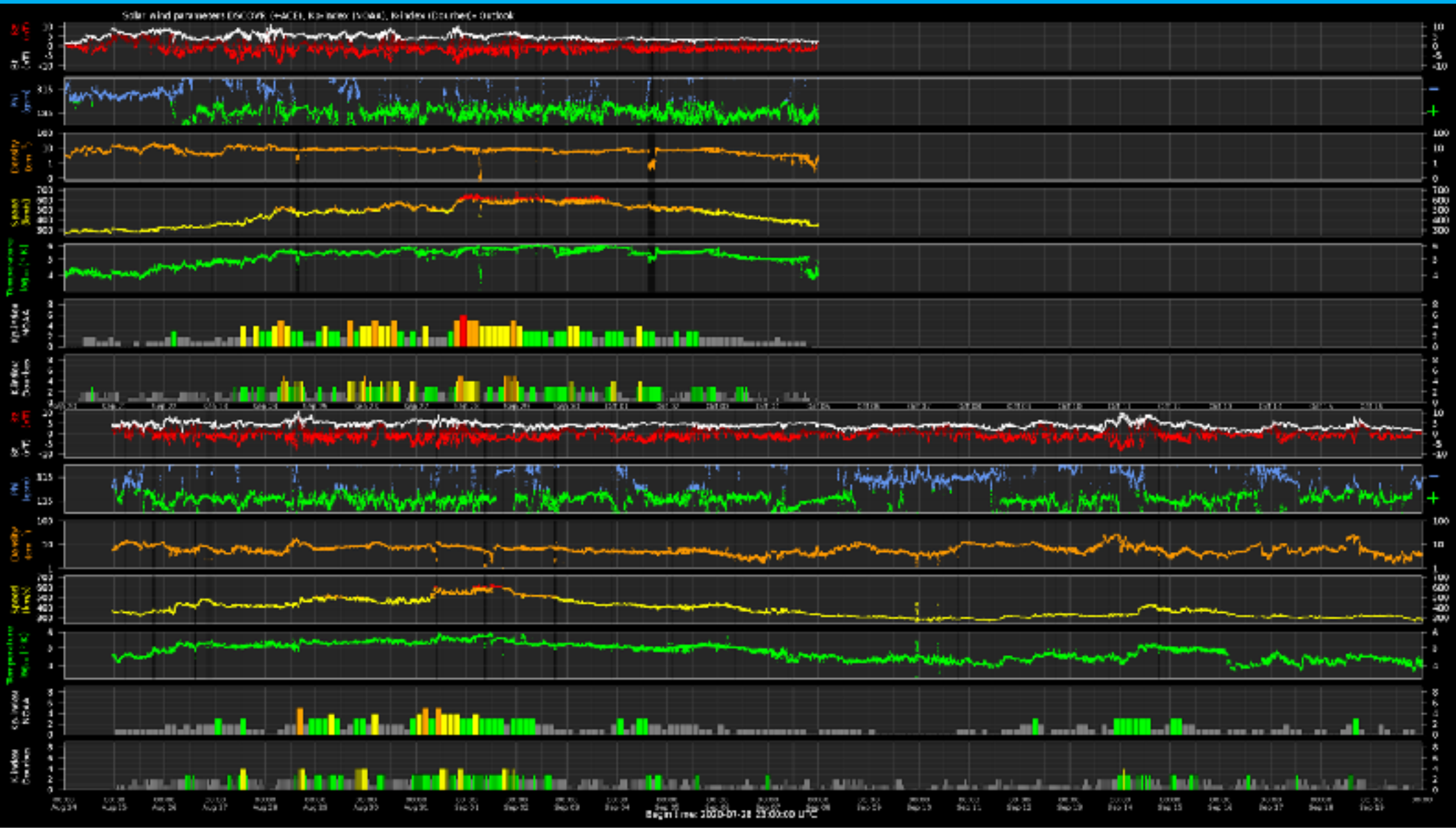
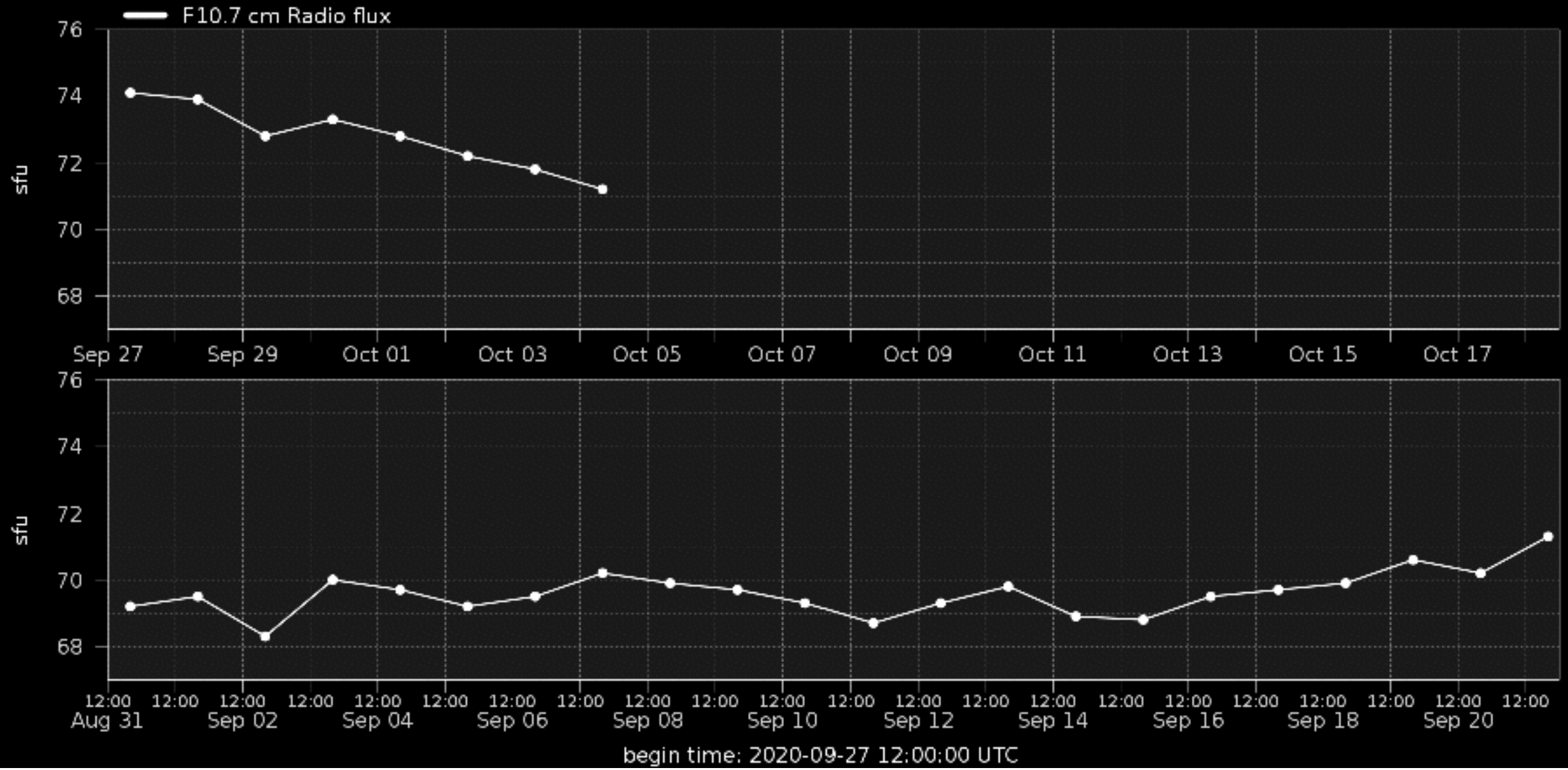
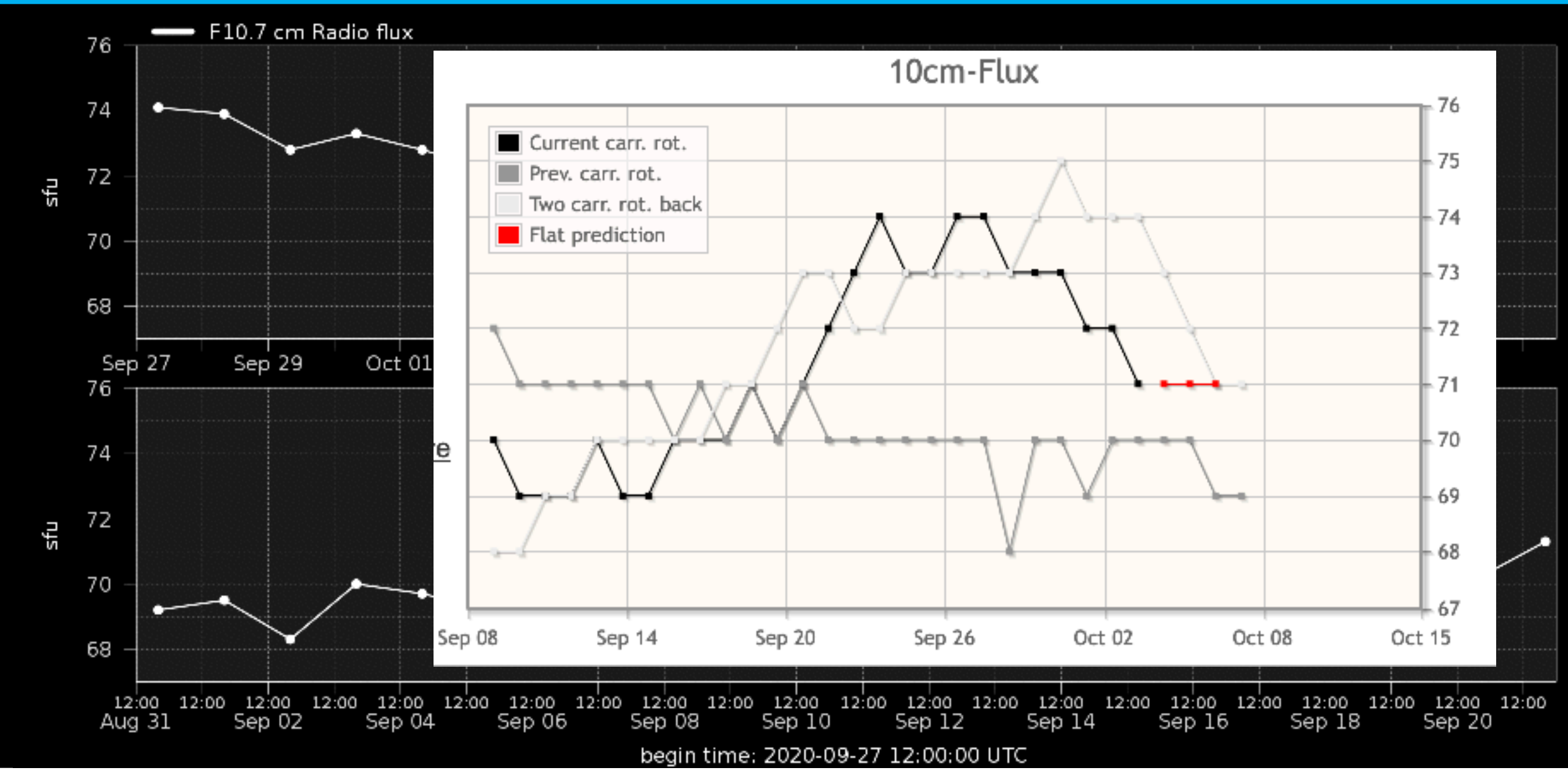
Outlook: Solar wind and Geomagnetic Activity



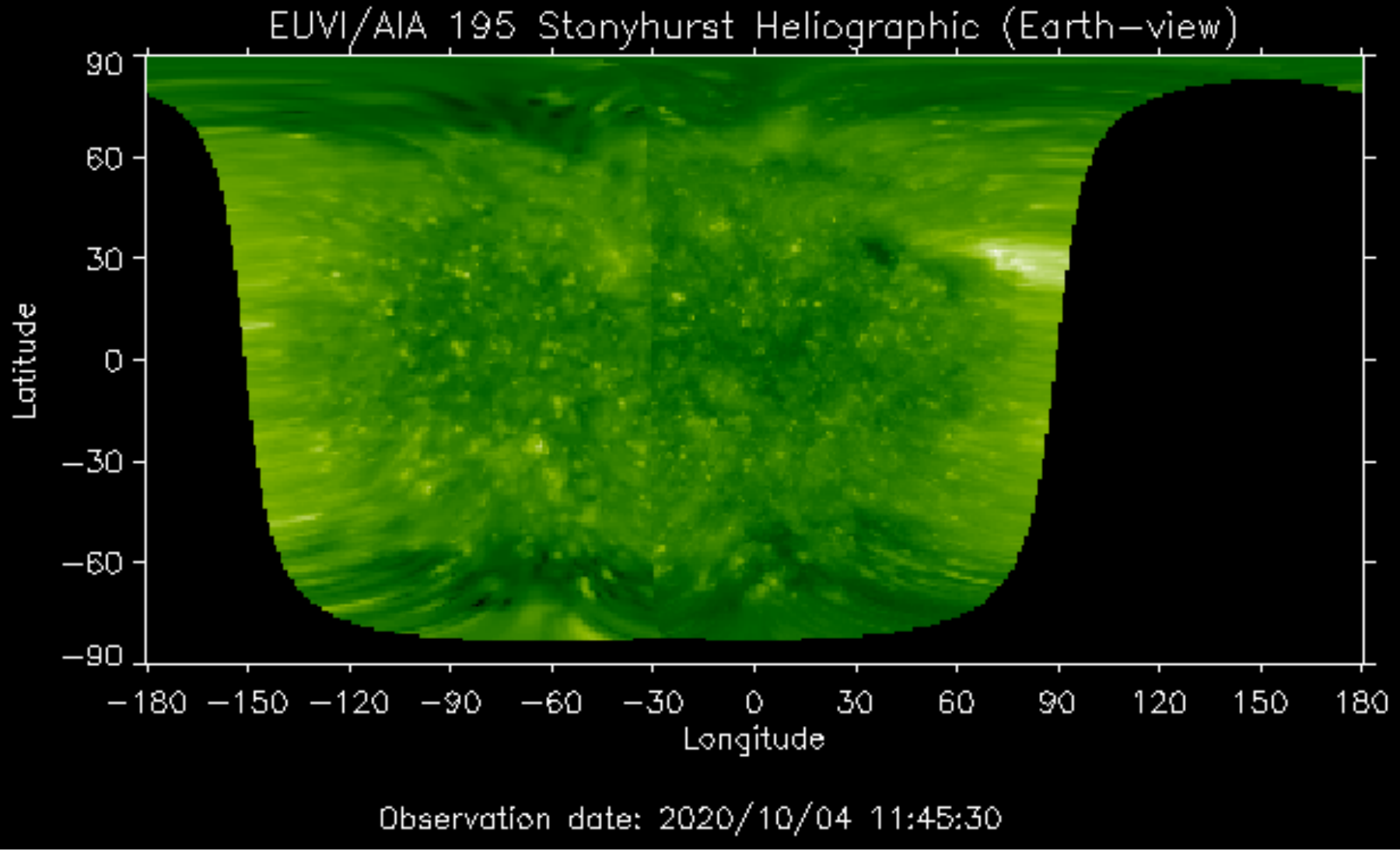
Outlook: F10 flux



Outlook: F10 flux



Outlook: Solar activity



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