

SIDC Space Weather Briefing

23 September 2018 - 30 September 2018

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& the SIDC forecaster team



Solar Influences
Data analysis Centre
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Summary Report

Solar activity from 2018-09-23 12:00 UT to 2018-09-30 12:00 UT

Active regions	One new region simple bipolar region (NOAA 2723) emerged end of week
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	Filament eruption on Sept 27 from S26E11
CMEs	No Earth directed CMEs
Proton Events	No proton events
Coronal holes	Equatorial CH- at central meridian Sept 30

Solar wind and geomagnetic conditions from 2018-09-23 12:00 UT to 2018-09-30 12:00 UT

HSS	No clearly identifiable HSS
ICME	No ICME
SW Conditions	Slightly enhanced throughout the week
K-indices	max K-index (Dourbes): 3 (4) max Kp-index (NOAA): 3

All Quiet Alert: All quiet

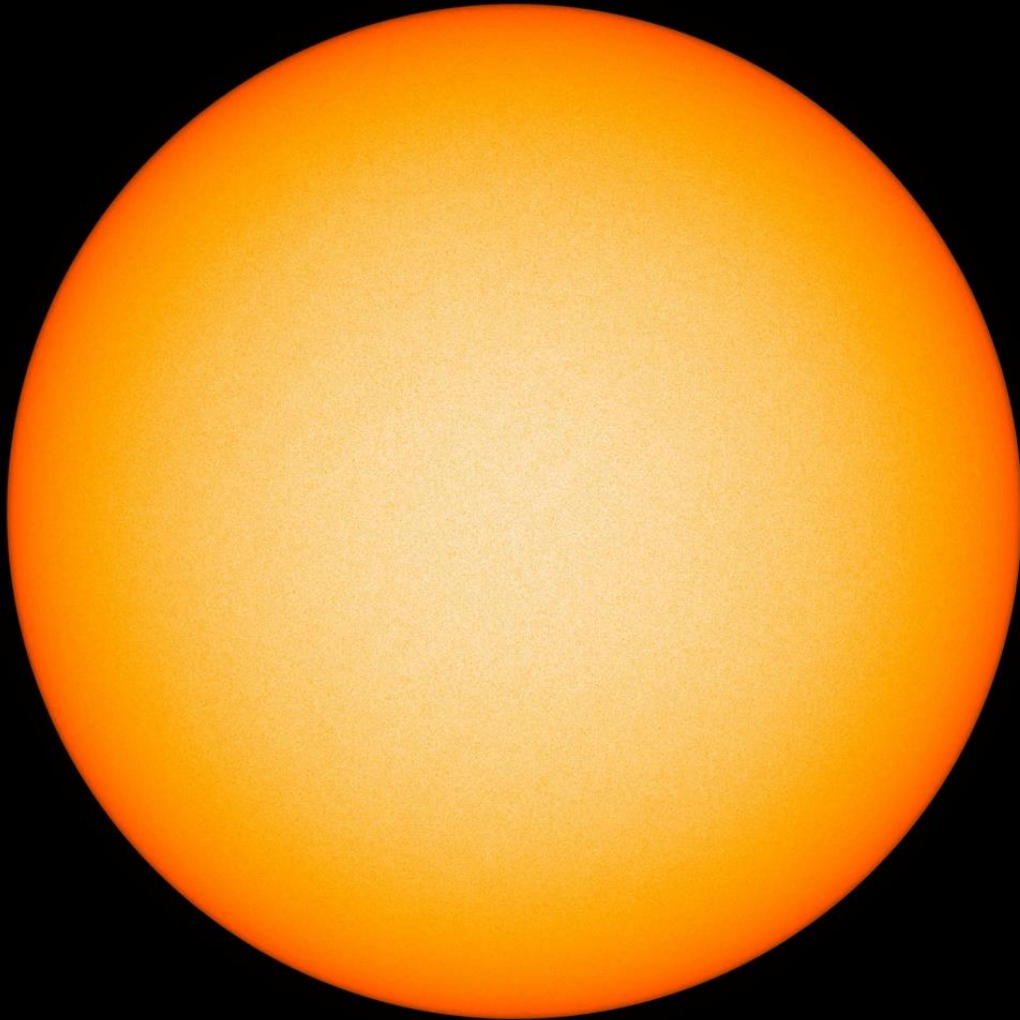
Solar Activity



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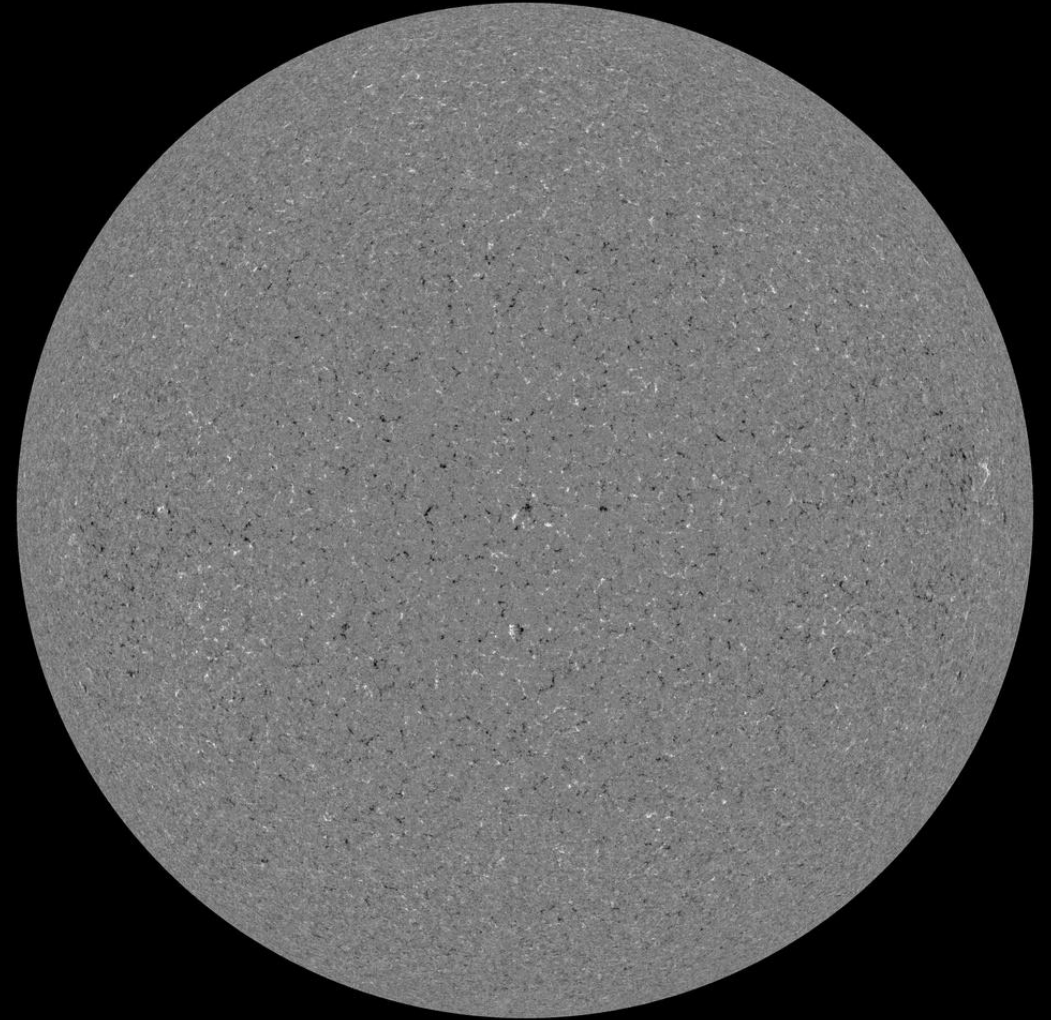
Solar active region - start of the week

SDO/HMI White Light 2018-09-23



SDO/HMI Quick-Look Continuum: 20180923_114500

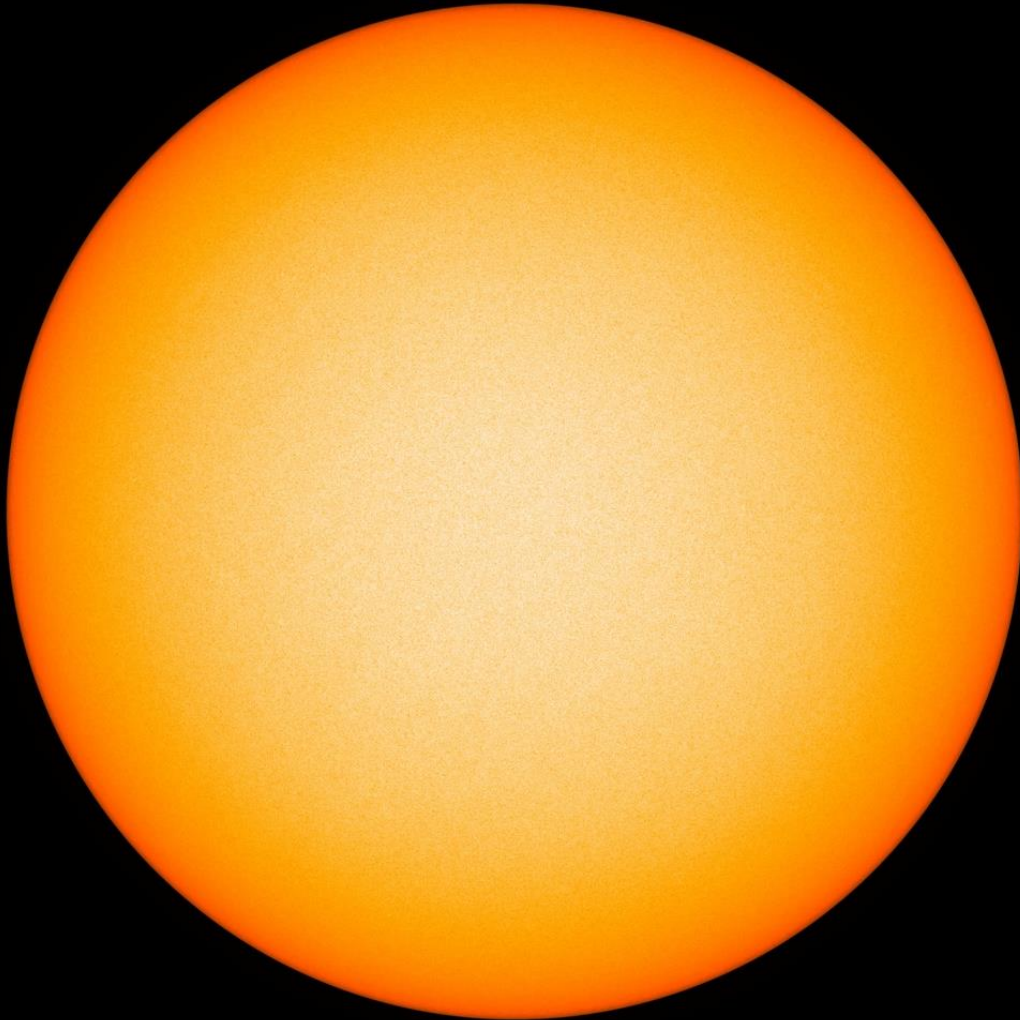
SDO/HMI Magnetogram 2018-09-23



SDO/HMI Quick-Look Magnetogram: 20180923_114500

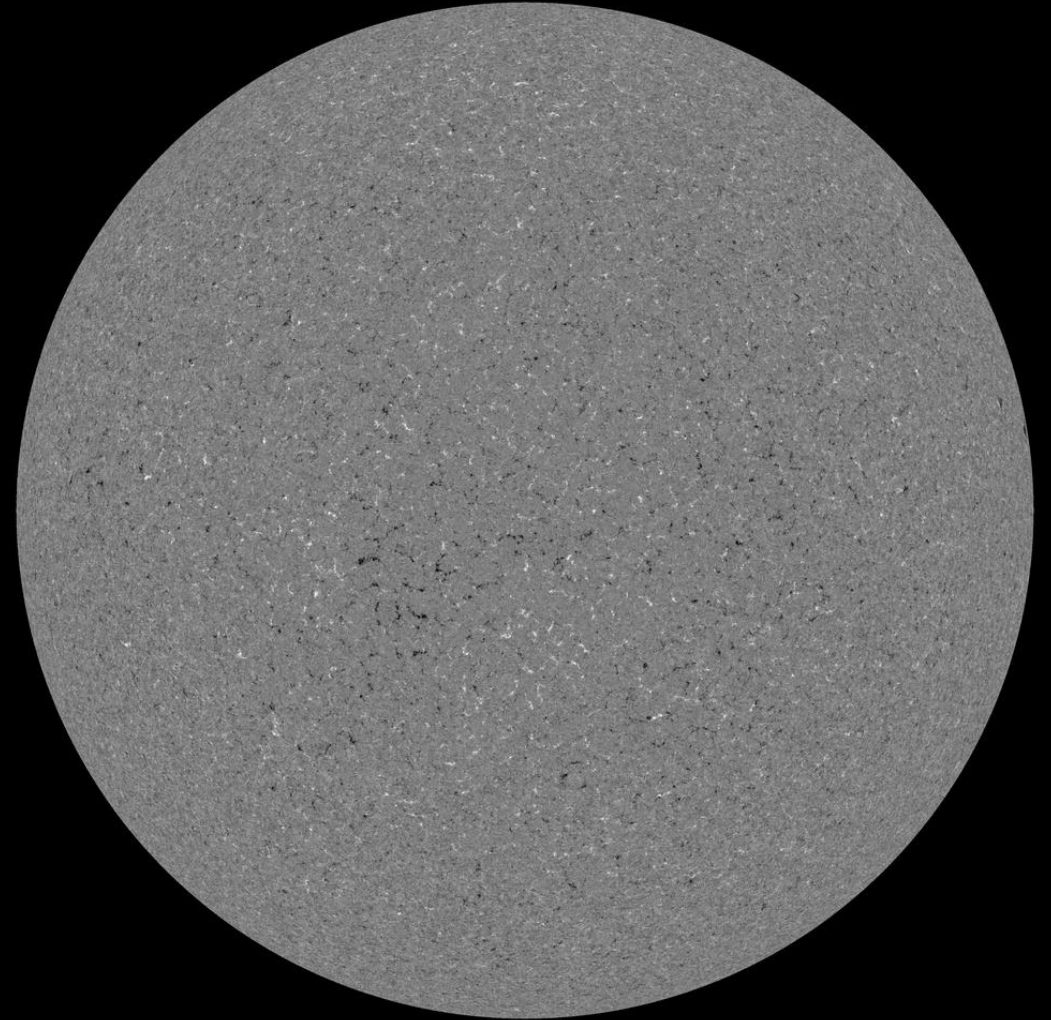
Solar active region - middle of the week

SDO/HMI White Light 2018-09-26



SDO/HMI Quick-Look Continuum: 20180926_114500

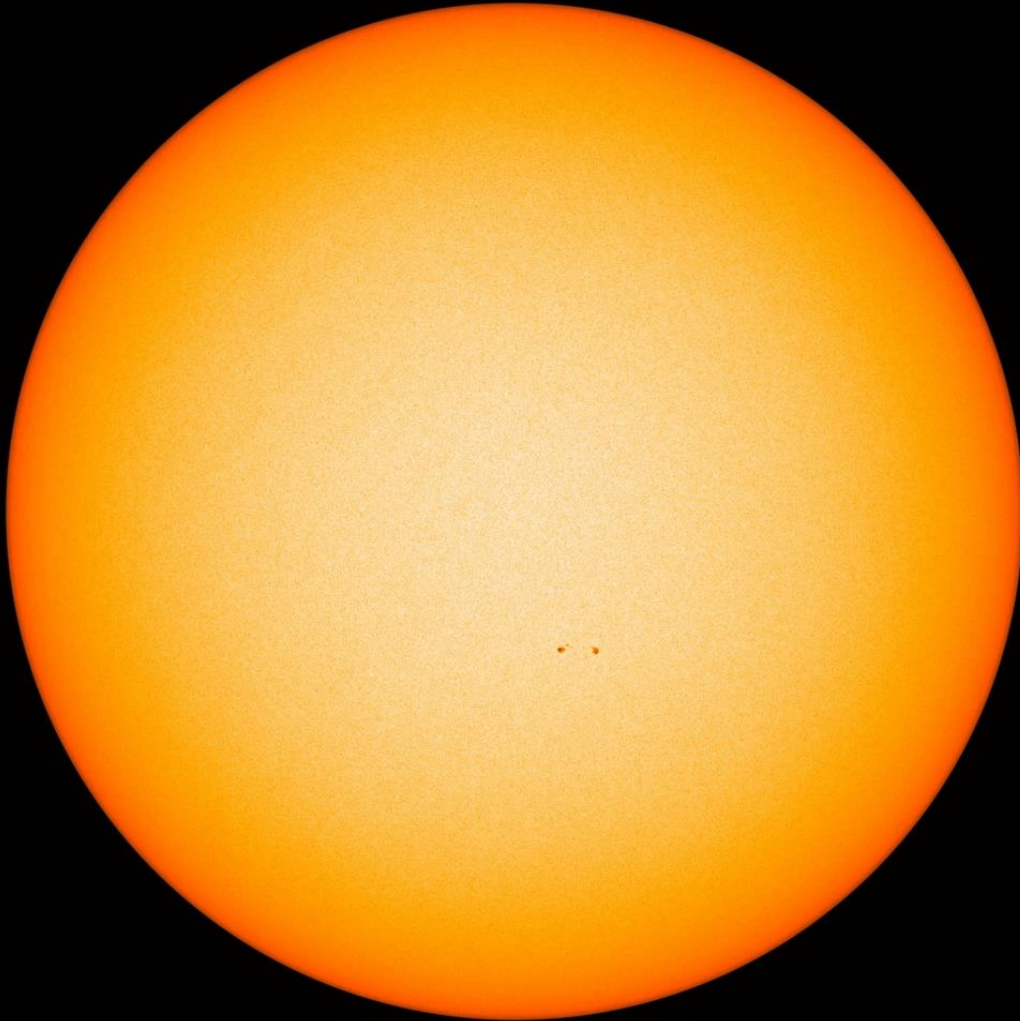
SDO/HMI Magnetogram 2018-09-26



SDO/HMI Quick-Look Magnetogram: 20180926_114500

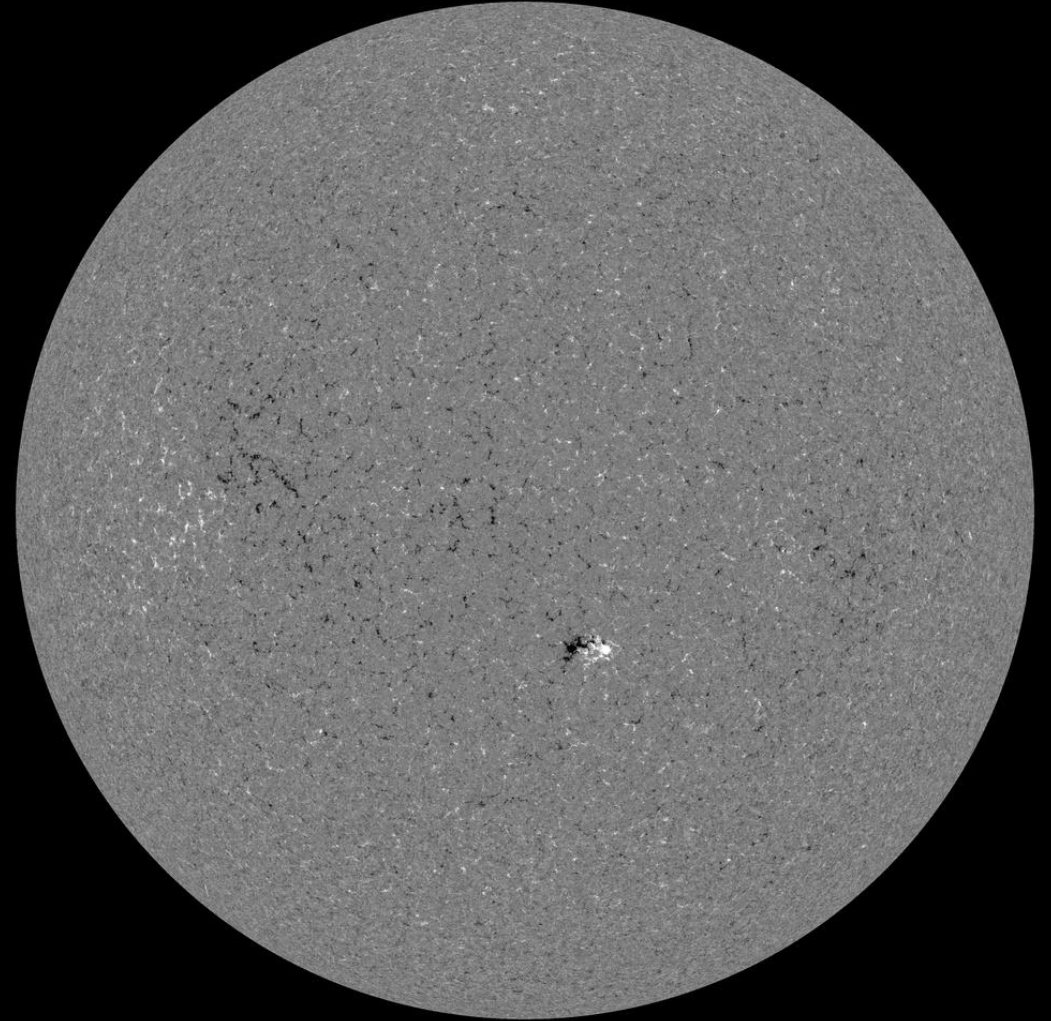
Solar active region - end of the week

SDO/HMI White Light 2018-09-30



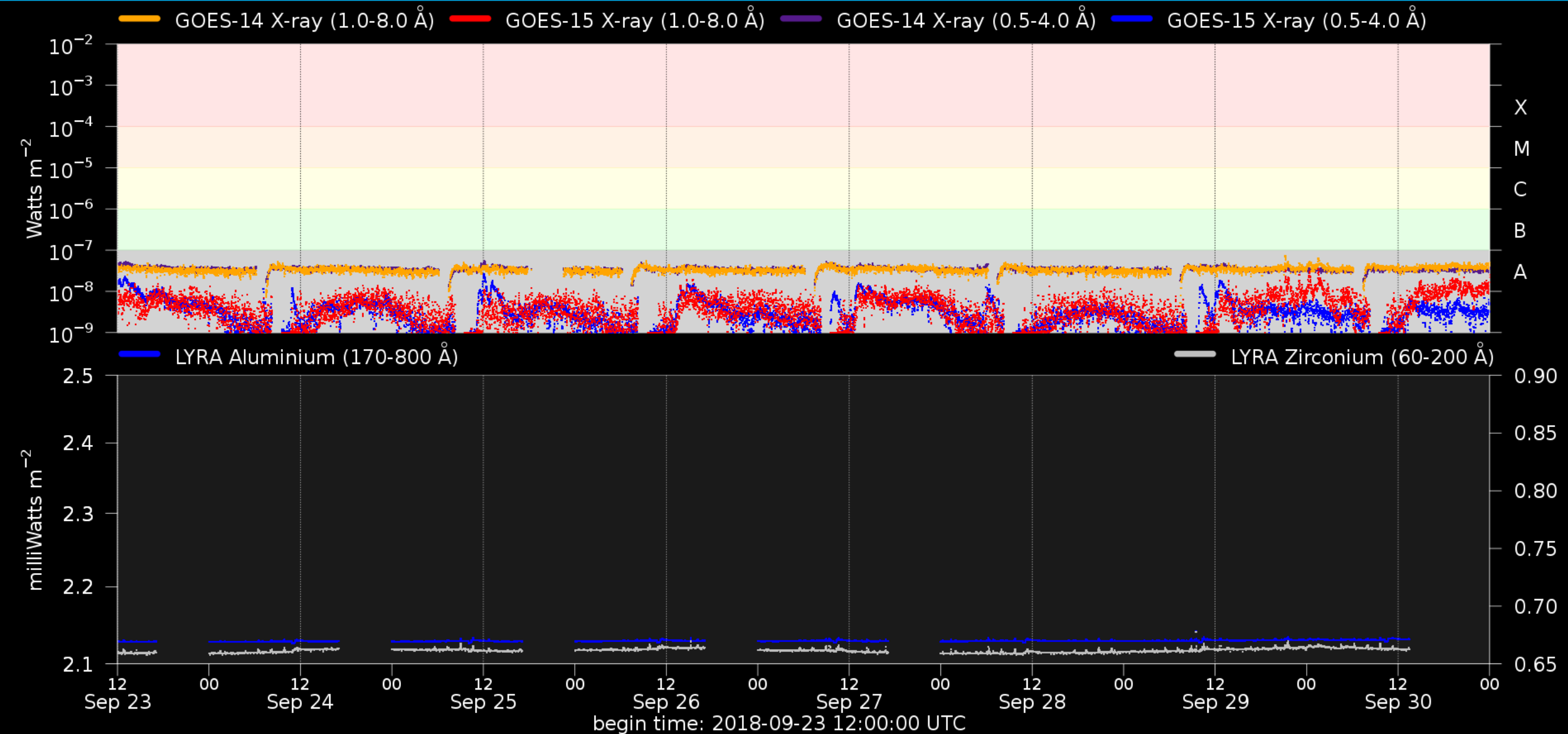
SDO/HMI Quick-Look Continuum: 20180930_114500

SDO/HMI Magnetogram 2018-09-30

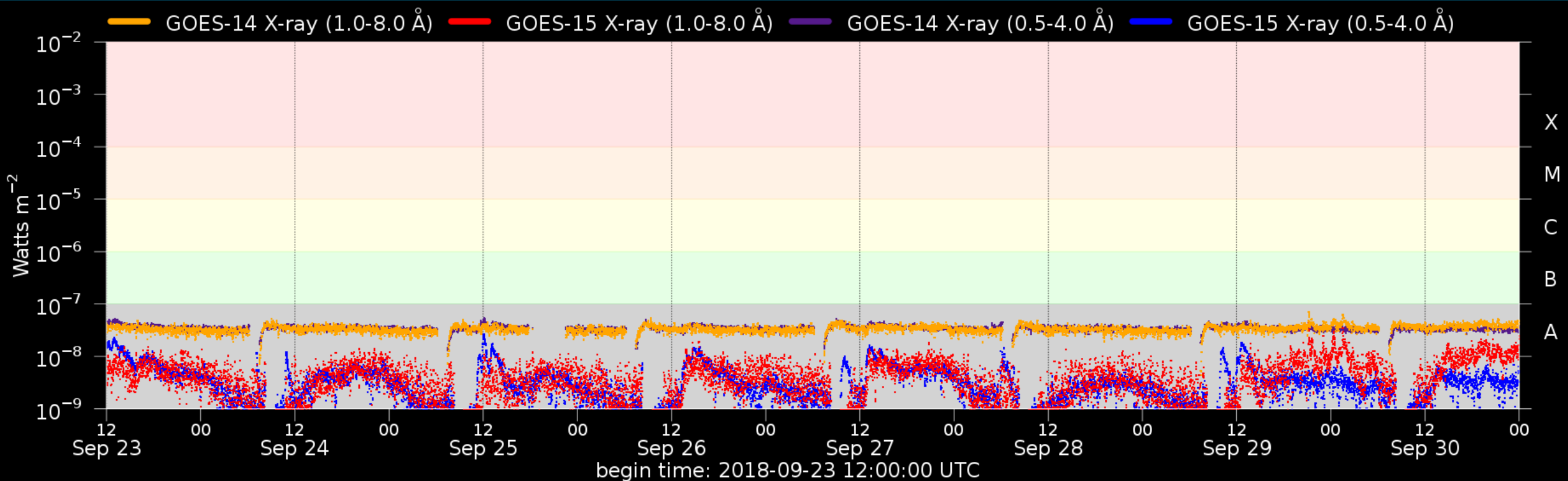


SDO/HMI Quick-Look Magnetogram: 20180930_114500

Solar X-Ray and UV flux



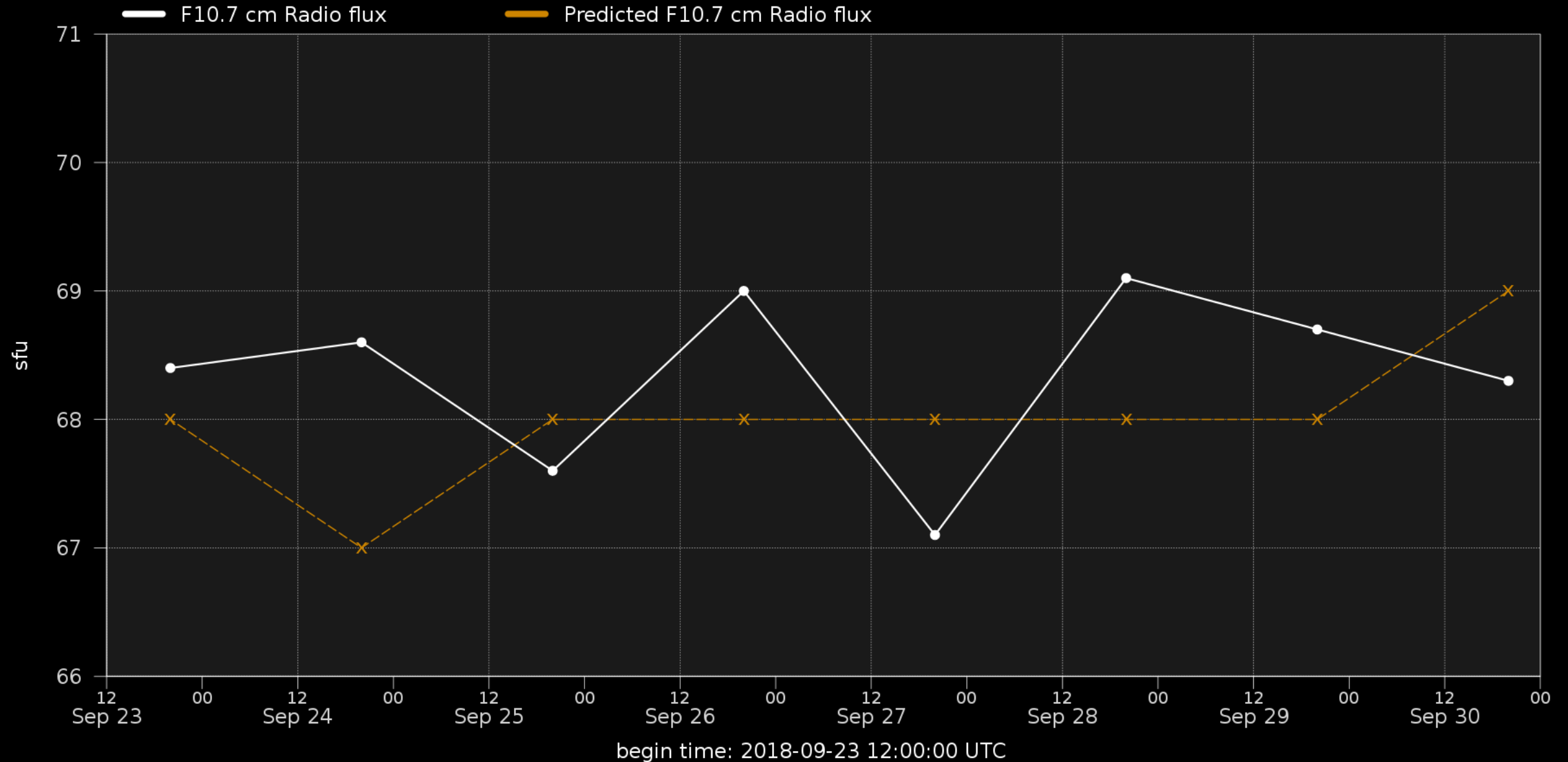
Flaring activity



Probabilities (%) and occurrences (#) of B/C/M/X-flares issued at 12:30 and over the next 24h:

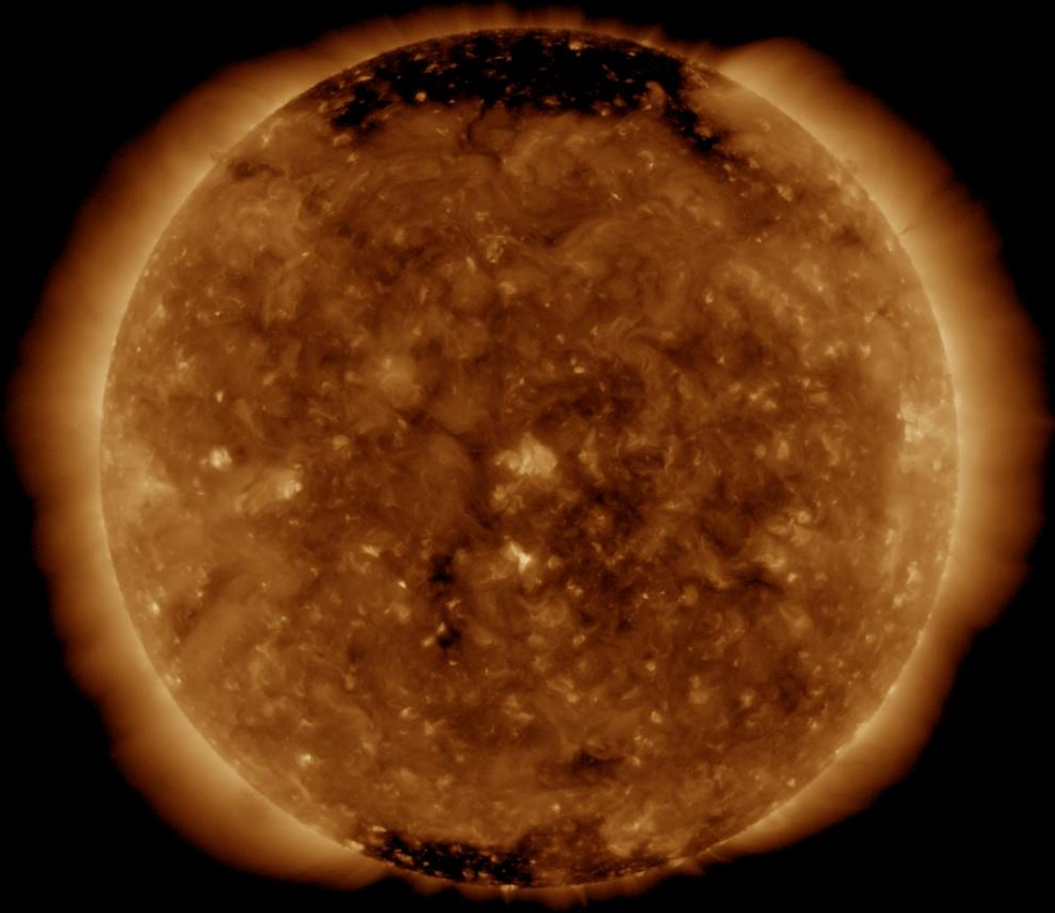
Issue date	2018-09-23	2018-09-24	2018-09-25	2018-09-26	2018-09-27	2018-09-28	2018-09-29	2018-09-30
Probability	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 15 01 01
Observed	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00

Solar F10.7cm radio flux



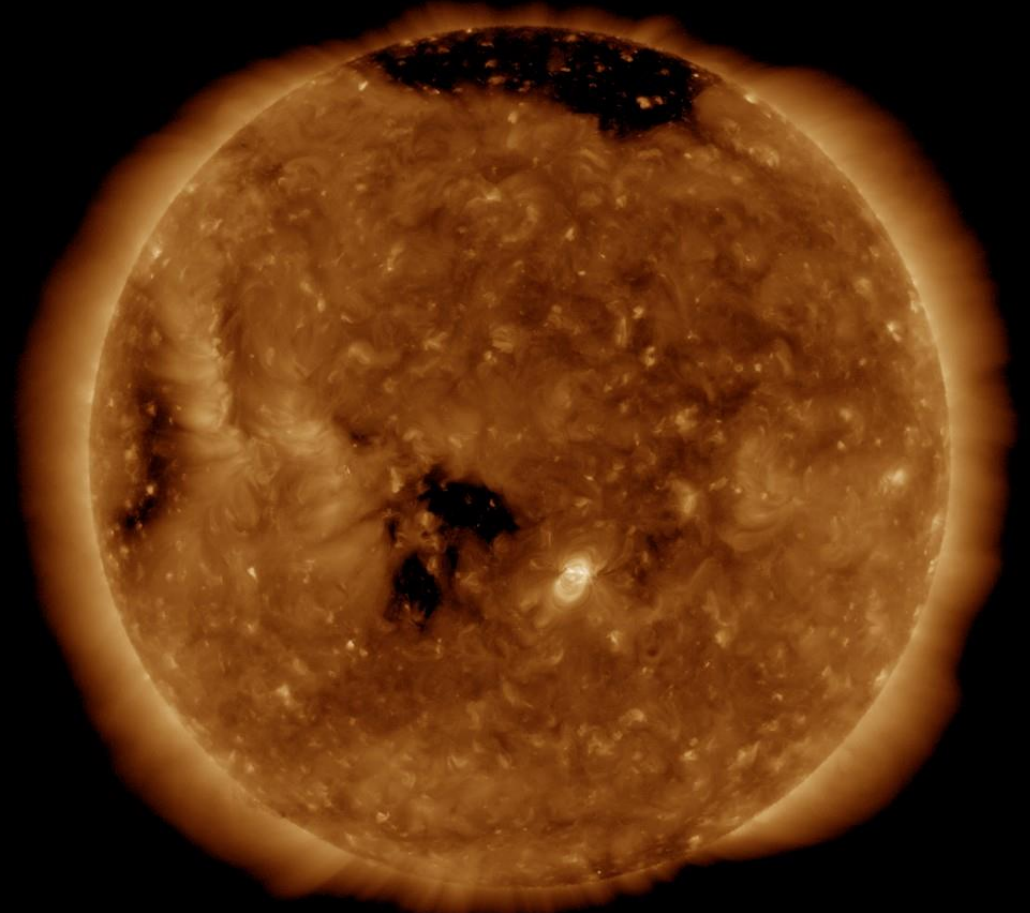
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2018-09-23



SDO/AIA 193 2018-09-23 12:09:53 UT

SDO/AIA 19.3 nm 2018-09-30

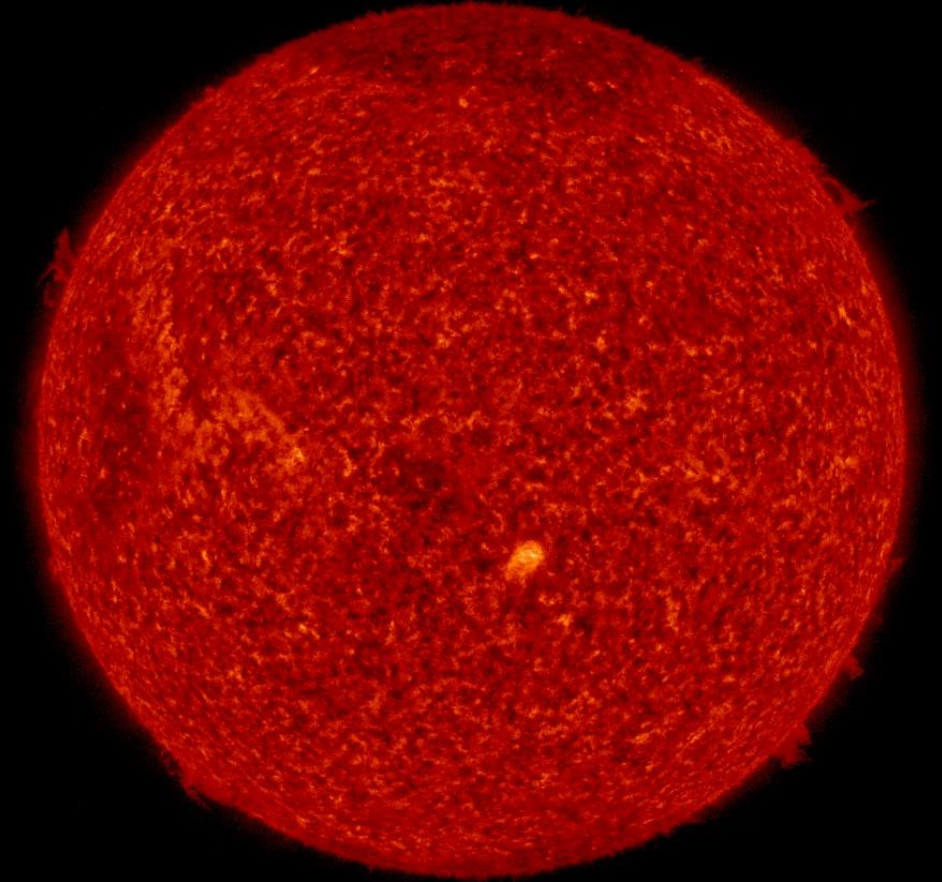
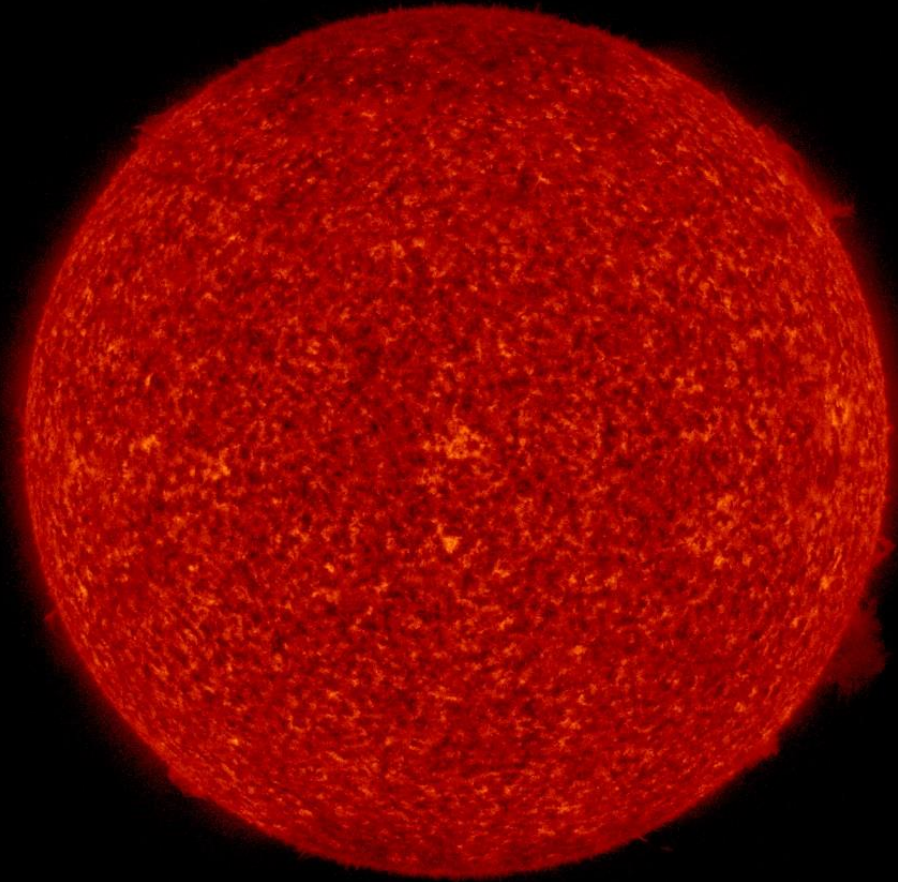


SDO/AIA 193 2018-09-30 12:10:41 UT

Solar active region & Filament

SDO/AIA 30.4 nm 2018-09-23

SDO/AIA 30.4 nm 2018-09-30

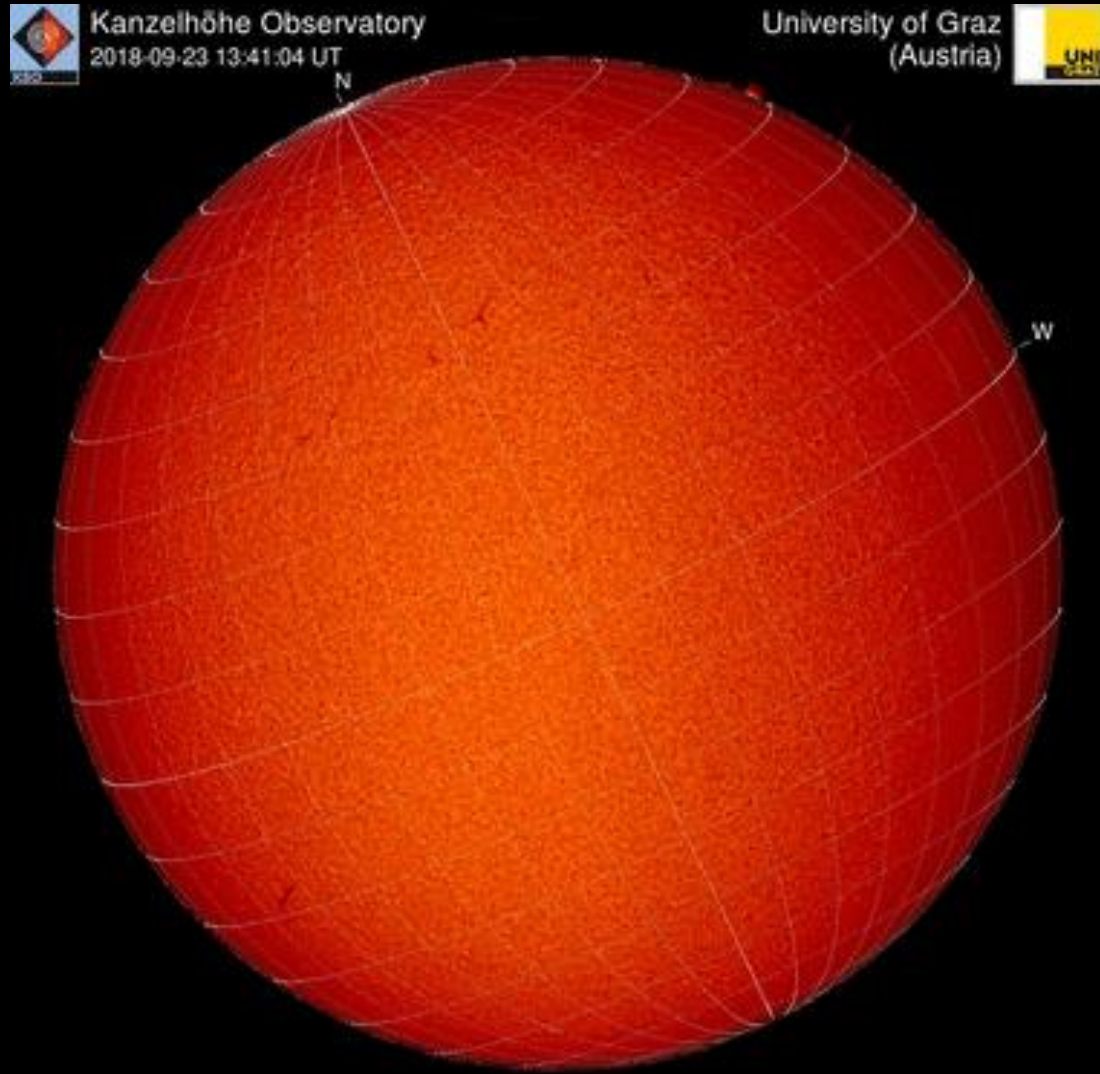


SDO/AIA 304 2018-09-23 12:14:18 UT

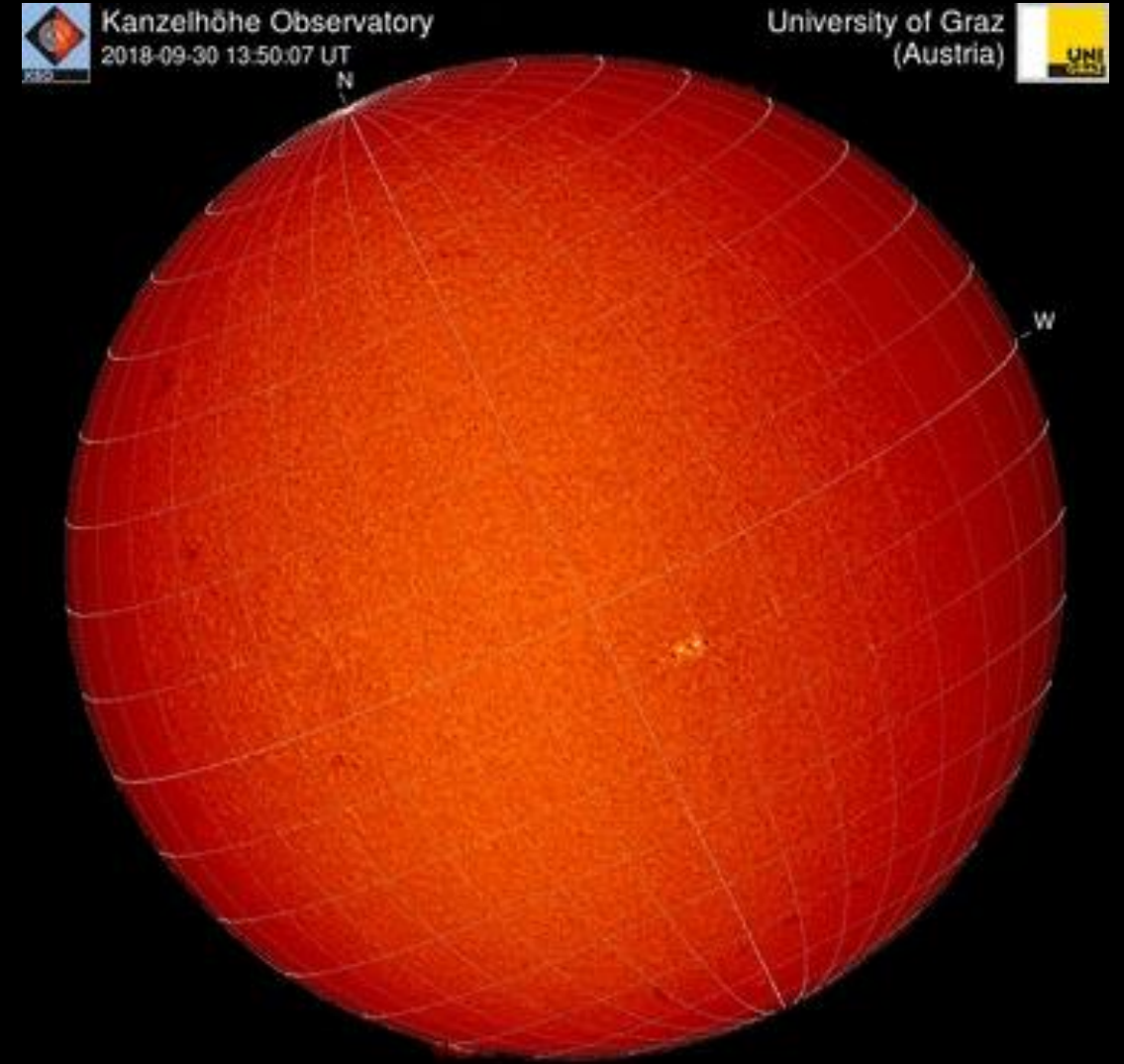
SDO/AIA 304 2018-09-30 12:13:06 UT

Filament & Filament eruption

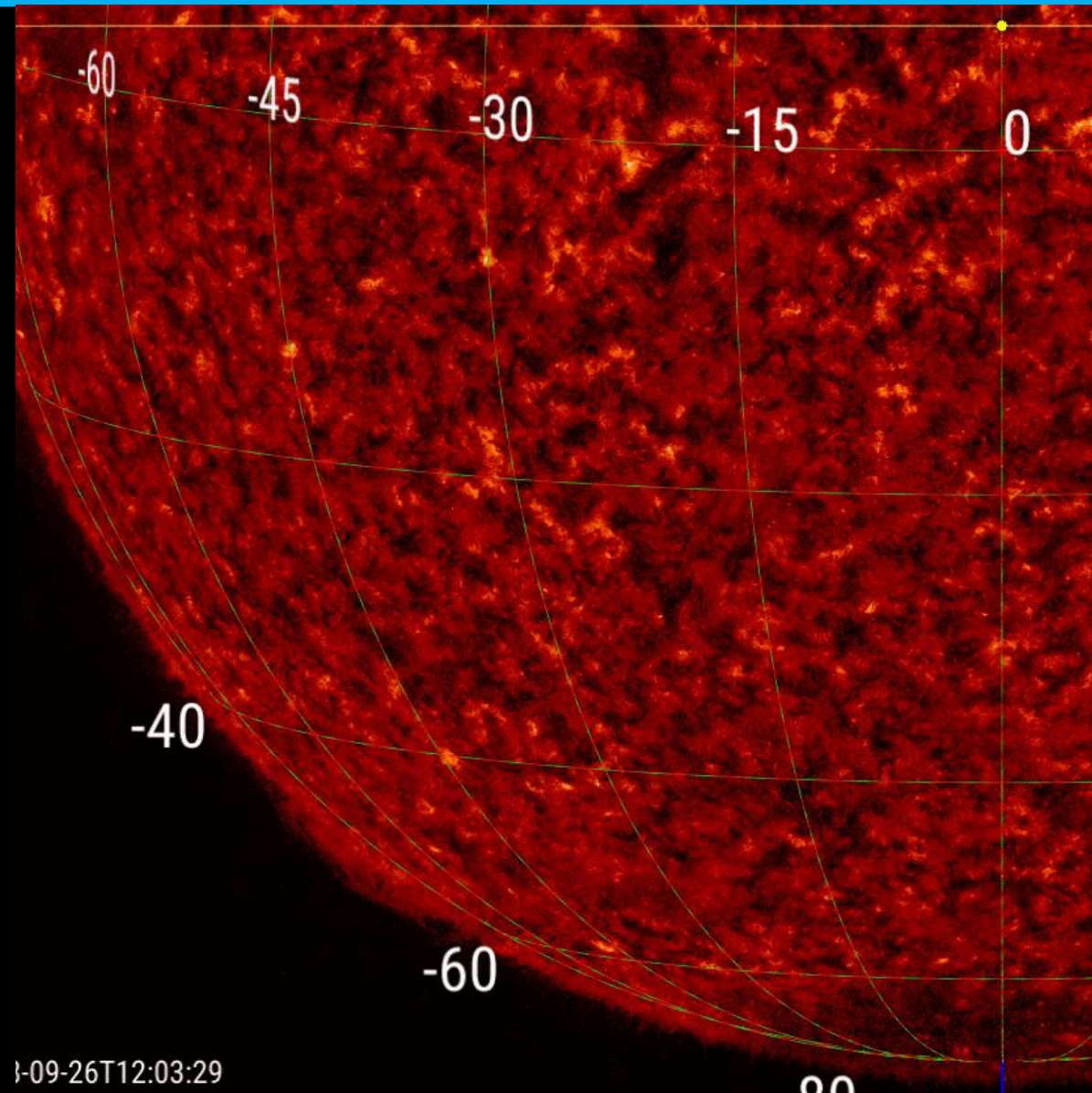
H-alpha 2018-09-23



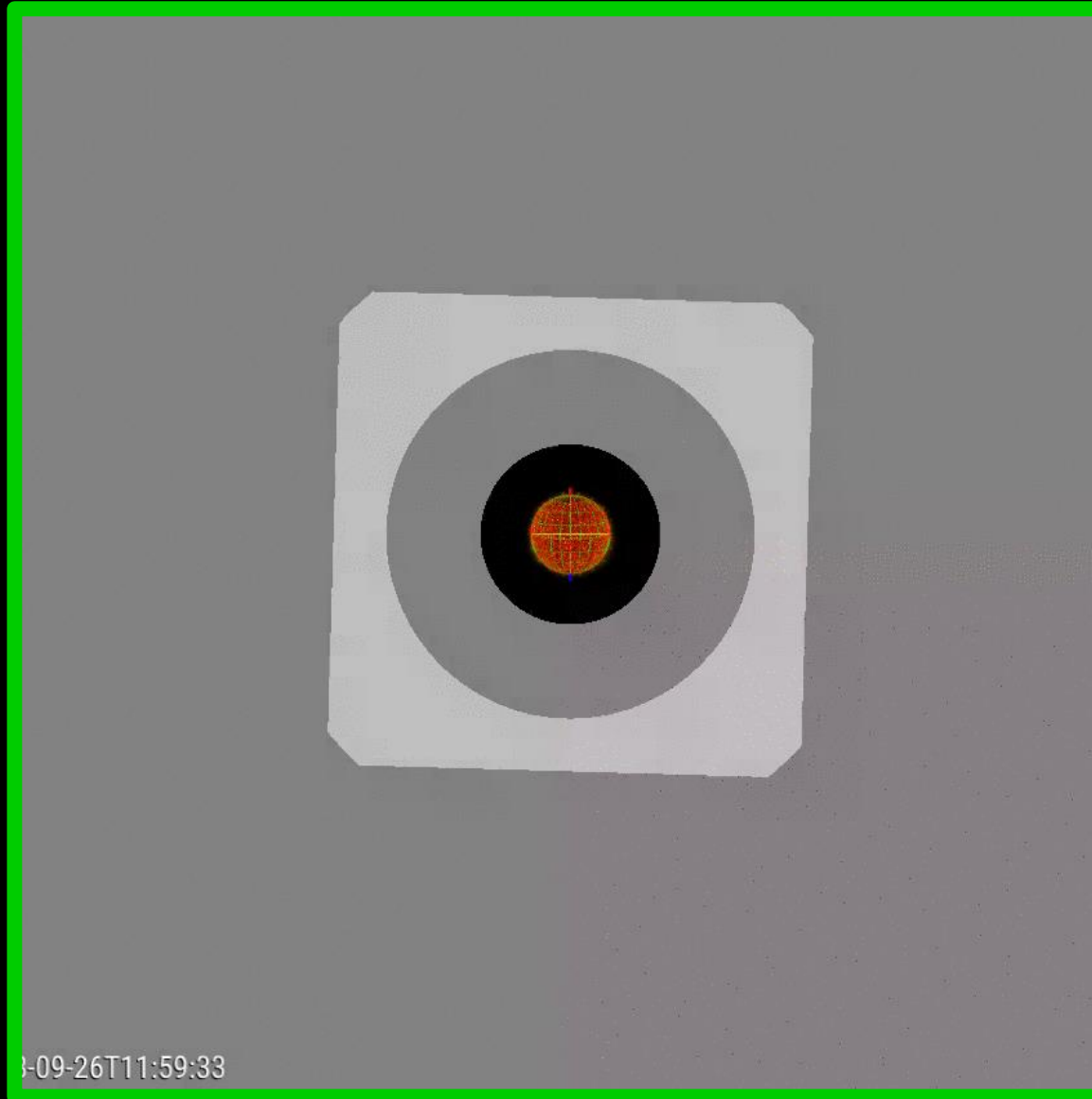
H-alpha 2018-09-30



Filament & Filament eruption



Coronal Mass Ejection



S

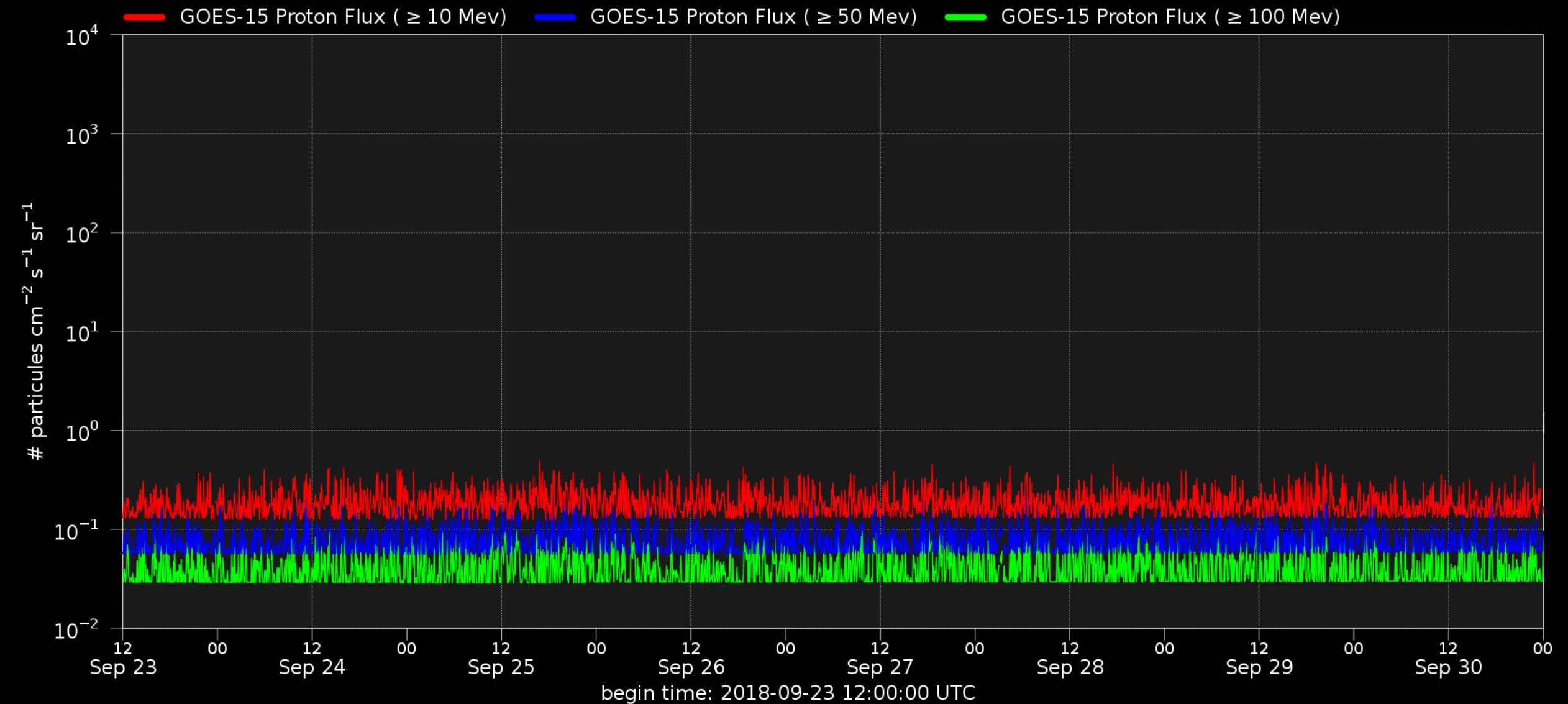
W

N

E

01:36 09/26
12:36 09/26
09:48 09/26
06:36 09/26
03:36 09/26
22:24 09/26
19:36 09/26
16:48 09/26
14:00 09/26
10:48 09/26
07:36 09/26
04:38 09/26
23:48 09/26
20:12 09/26
17:36 09/26
14:36 09/26
11:24 09/26
08:12 09/26
05:18 09/26
02:24 09/26
23:12 09/26
19:36 09/26
16:30 09/26
12:35 09/26
10:09 09/26
07:42 09/26
05:05 09/26
16:48 09/26
14:00 09/26
10:48 09/26
07:36 09/26
04:48 09/26
02:00 09/26
22:12 09/26
19:00 09/26
16:12 09/26
12:36 09/26
09:36 09/26
06:24 09/26
03:24 09/26
00:00 09/26

Solar proton flux

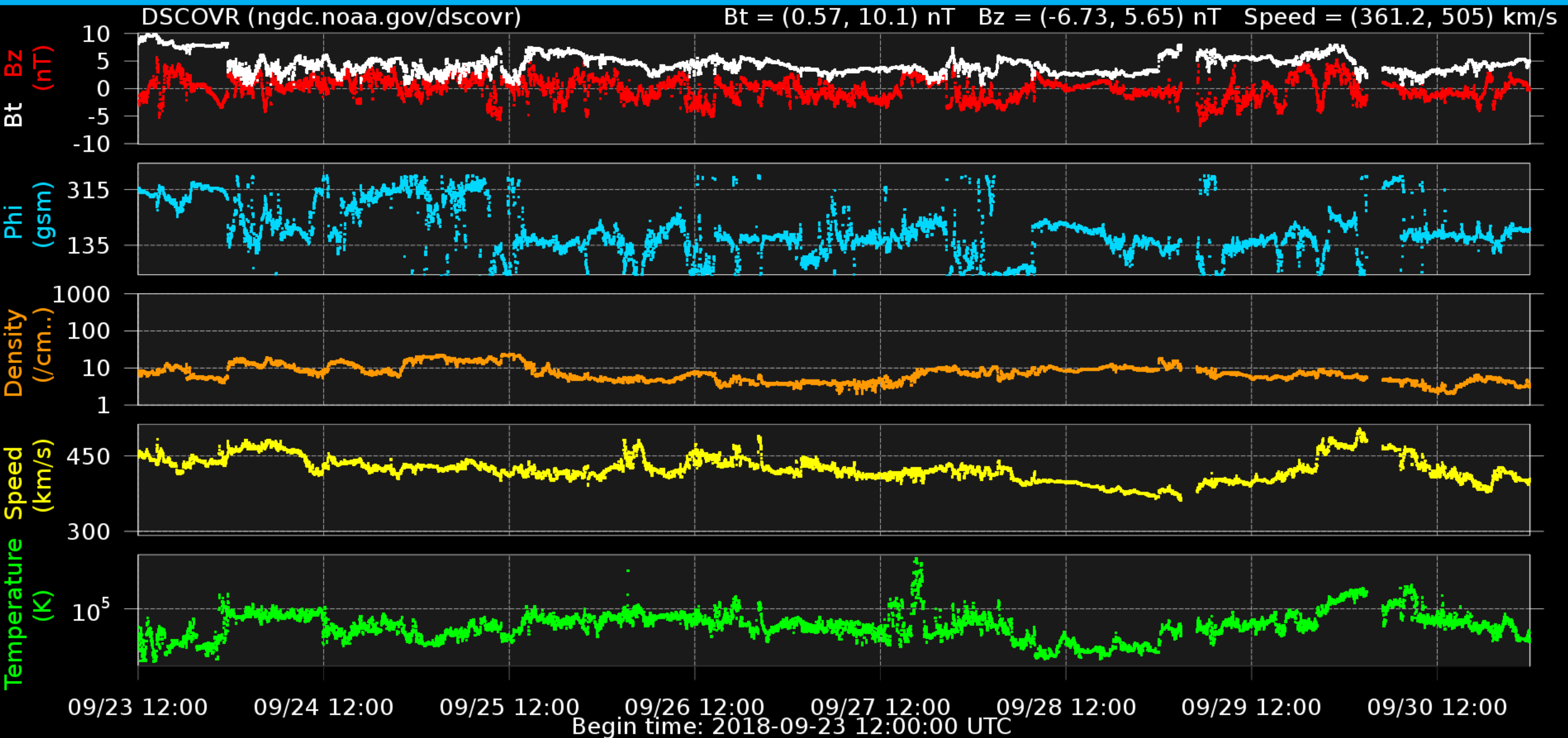


Solar Wind and Geomagnetic Activity

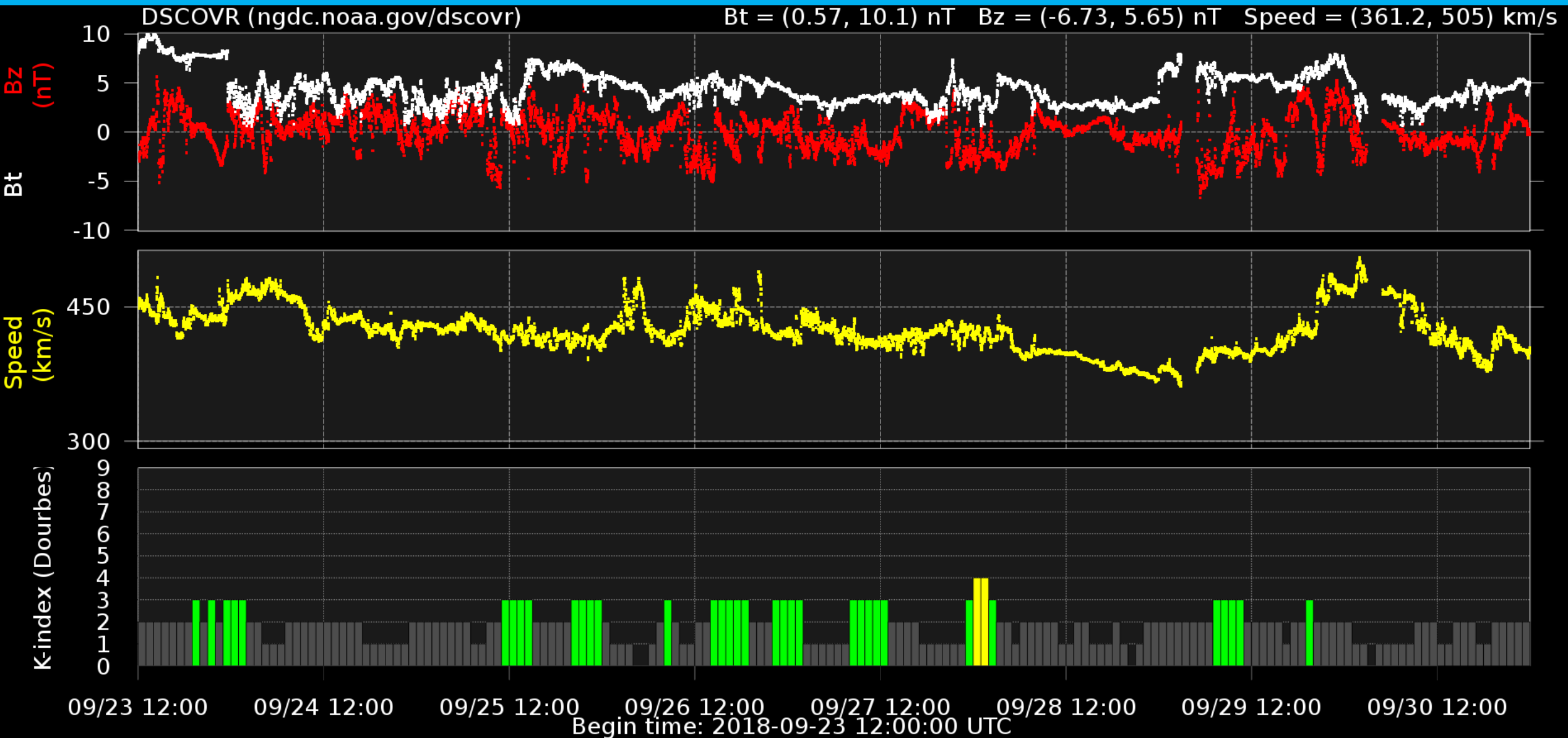


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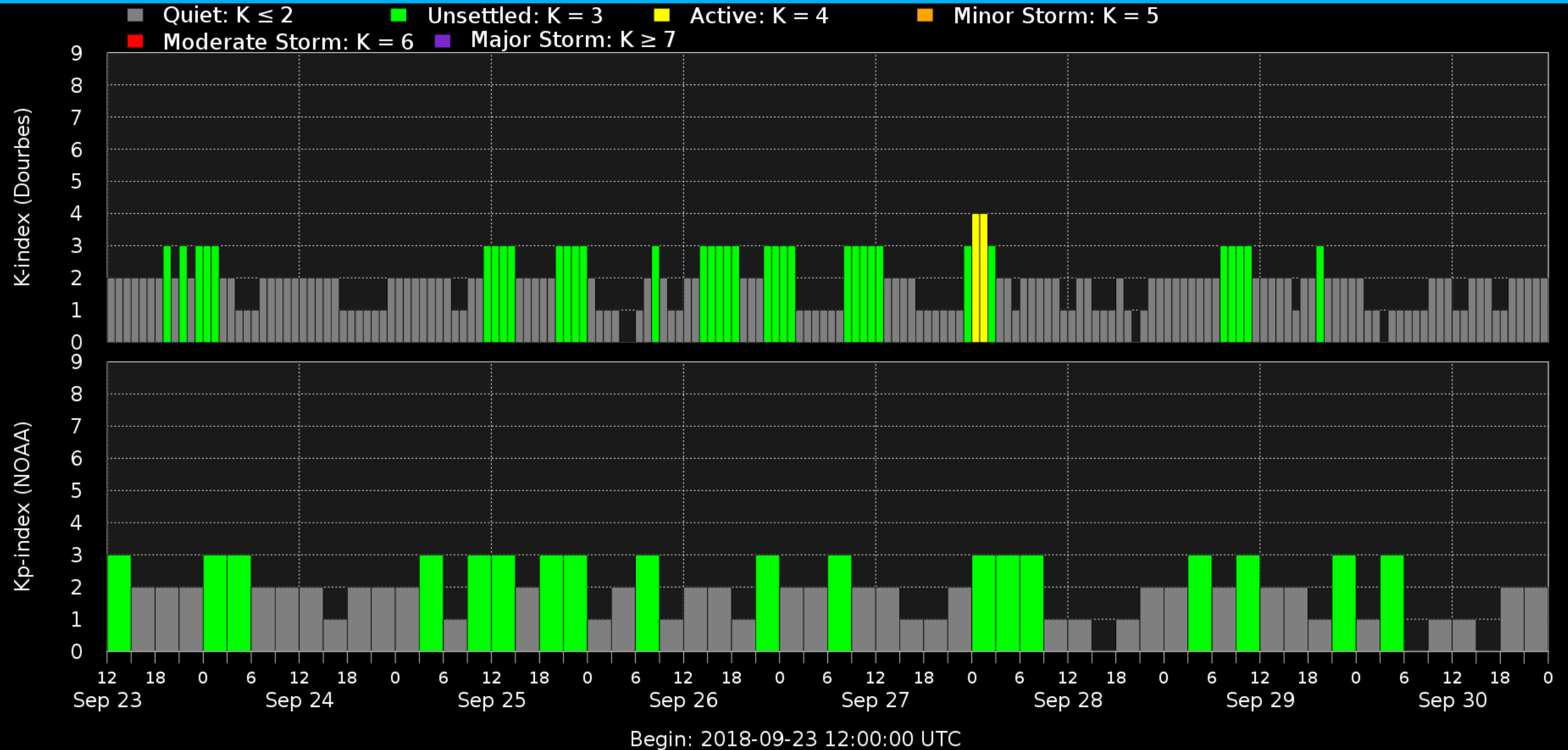
Solar wind parameters (DSCOVR data)



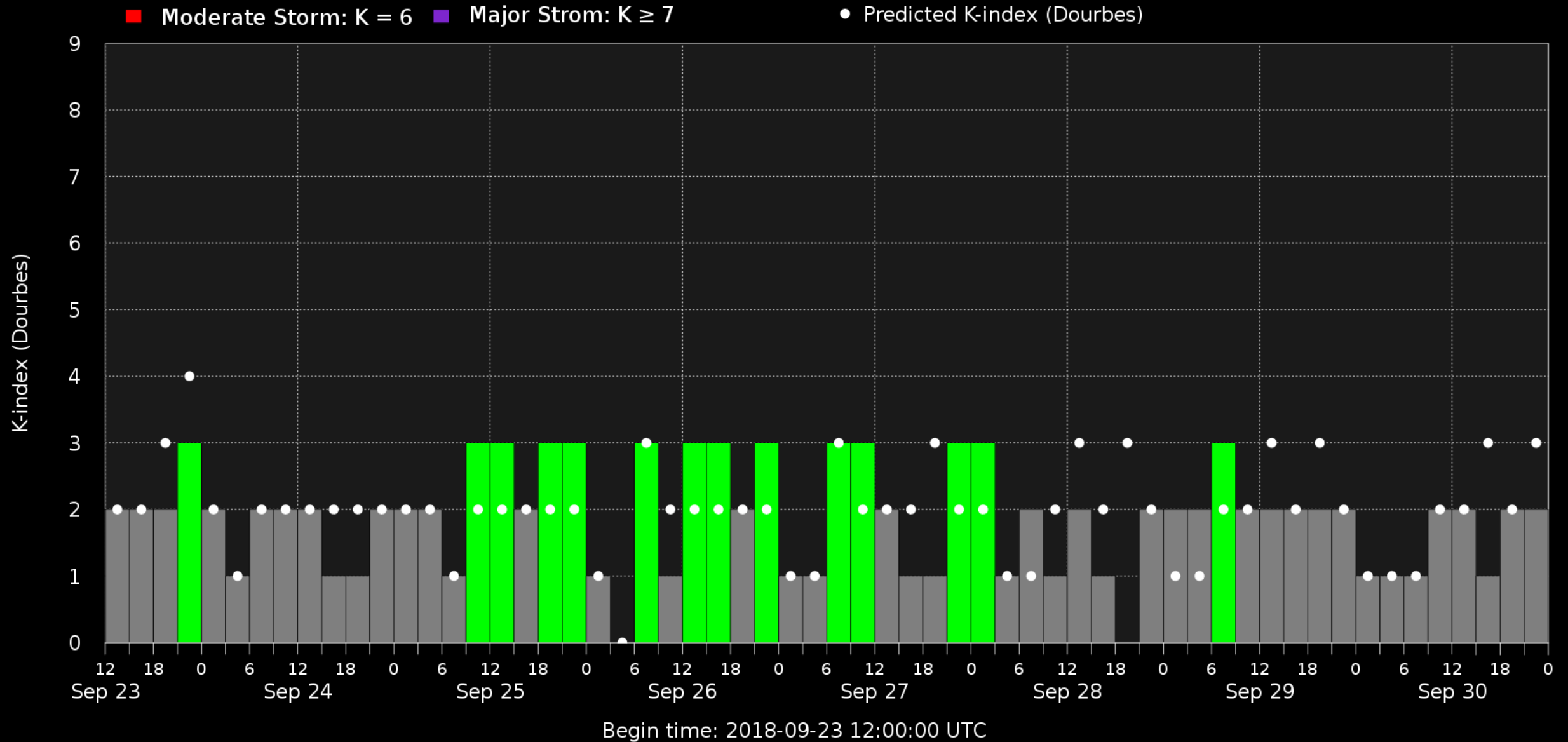
Solar wind parameters & K-index (DSCOVR/Dourbes)



Geomagnetic activity (K-indexes)



K-Dourbes index



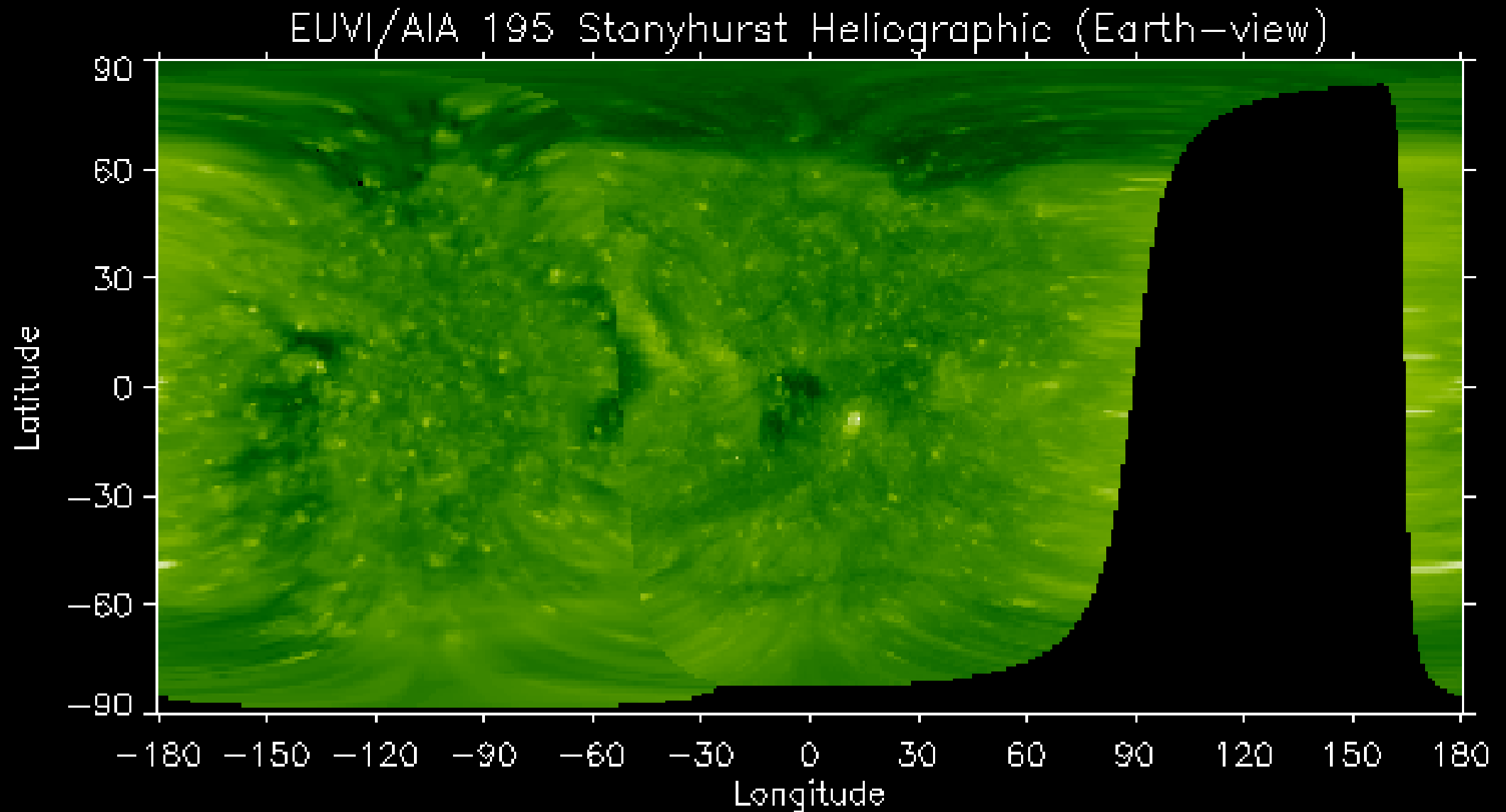
Outlook



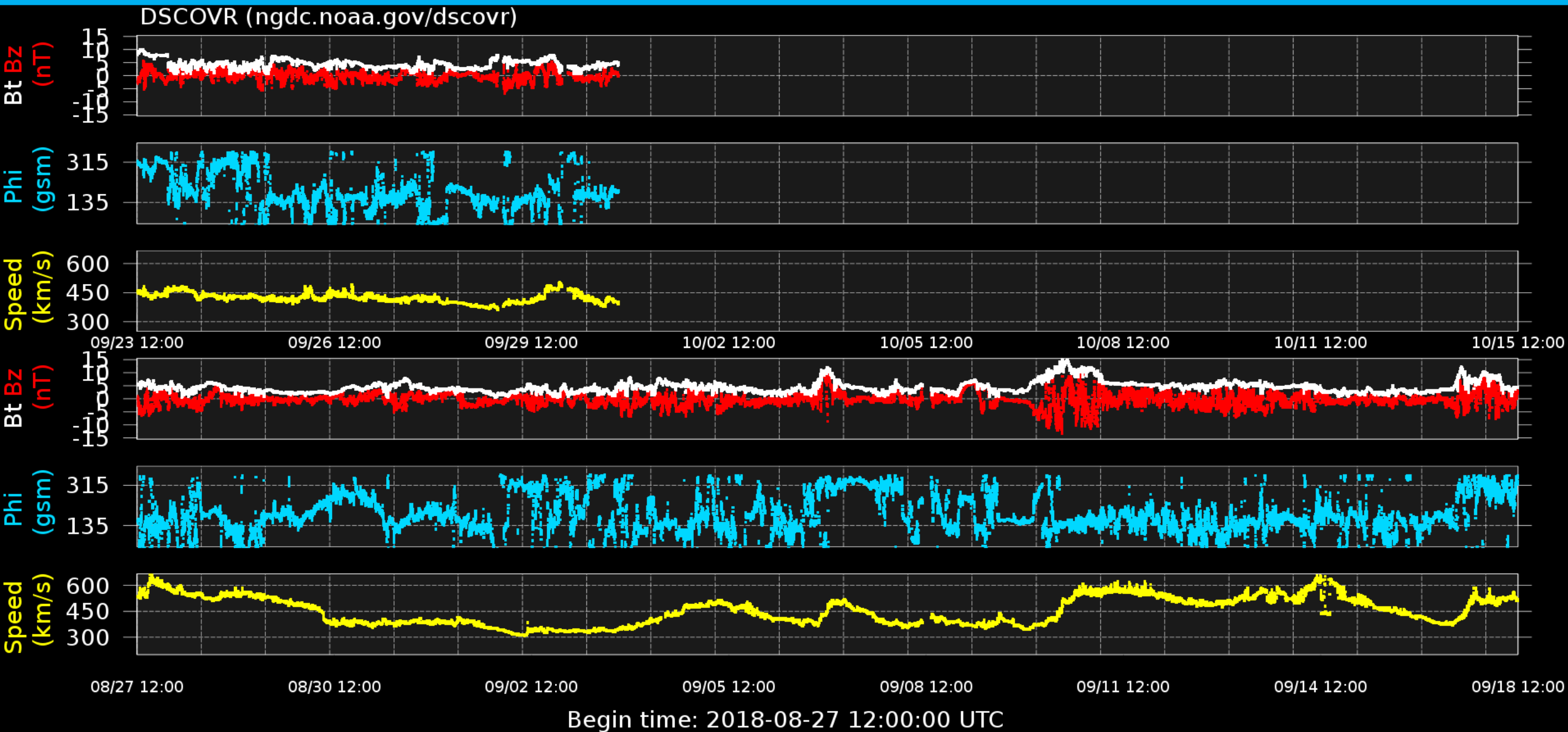
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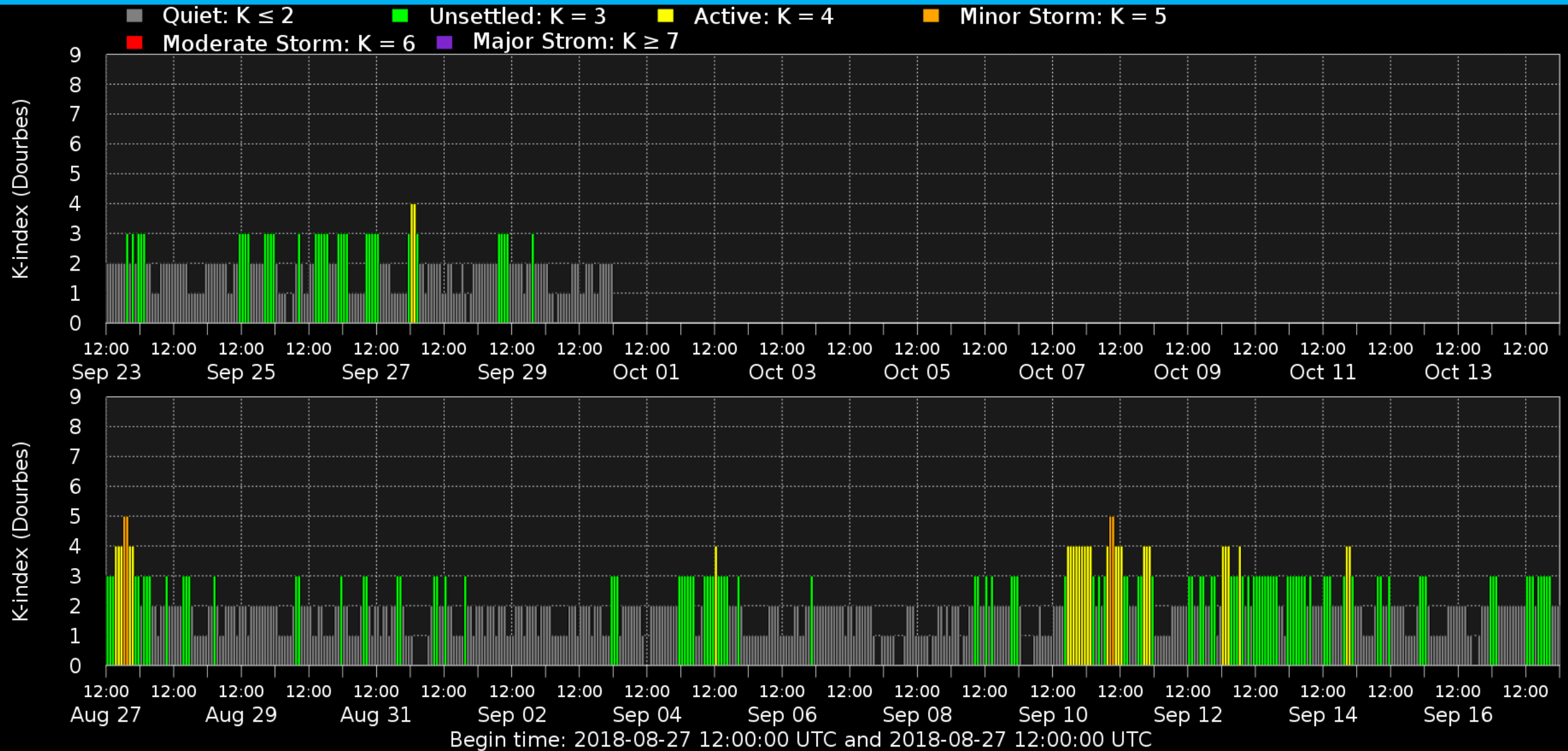
Outlook: Solar activity



Outlook: Solar wind



Outlook: Geomagnetic activity



SIDC Space Weather Briefing

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