

SIDC Space Weather Briefing

26 August 2018 - 02 September 2018

Jesse Andries on behalf of Matthew West
& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
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Summary Report

Solar activity from 2018-08-26 12:00 UT to 2018-09-02 12:00 UT

Active regions	AR 2719 and AR 2720 were inactive
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	Long stable filament in N
CMEs	No Earth directed CMEs
Proton Events	Background

Solar wind and geomagnetic conditions from 2018-08-26 12:00 UT to 2018-09-02 12:00 UT

Coronal Holes	N+ coronal hole high speed stream
ICME	None
SW Conditions	HSS at start of Week
K-indices	max K-index (Dourbes): 5 max Kp-index (NOAA): 6

All Quiet Alert: Not quiet

Solar Activity

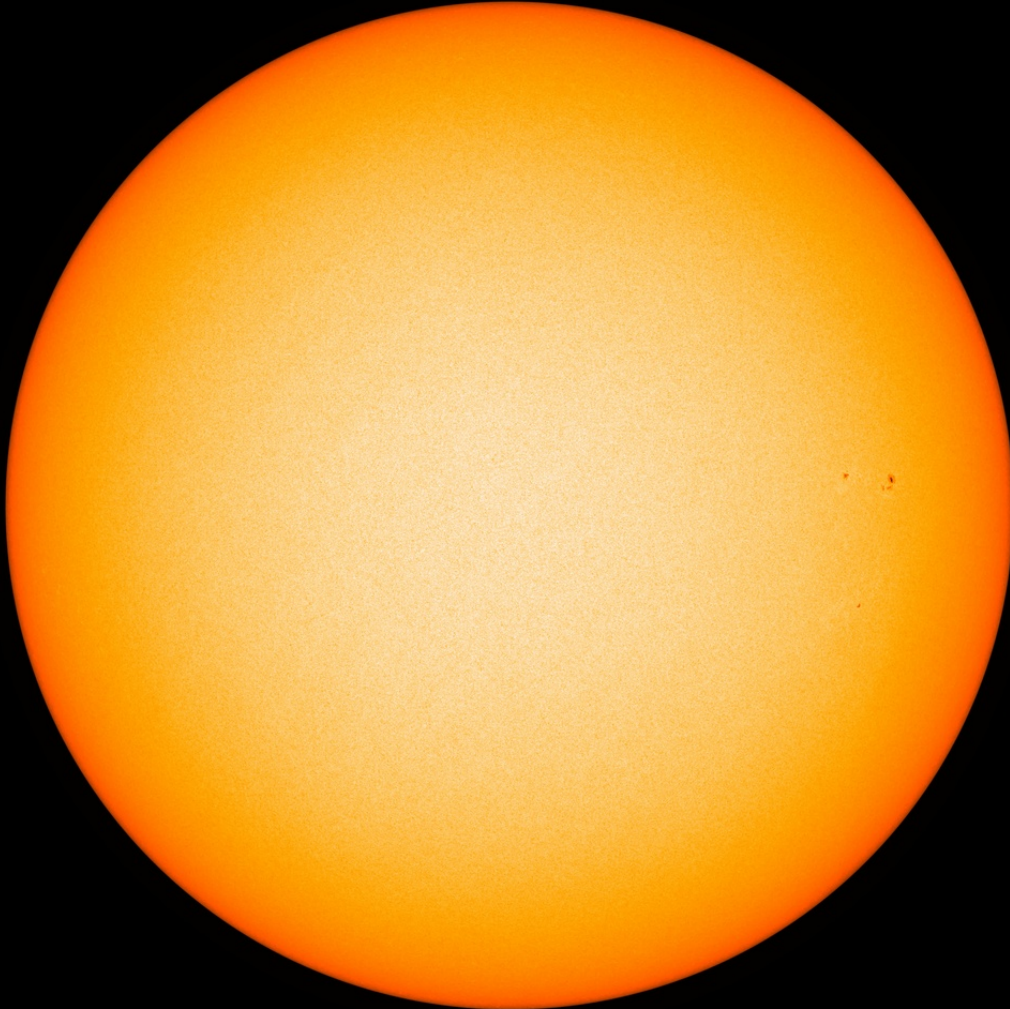


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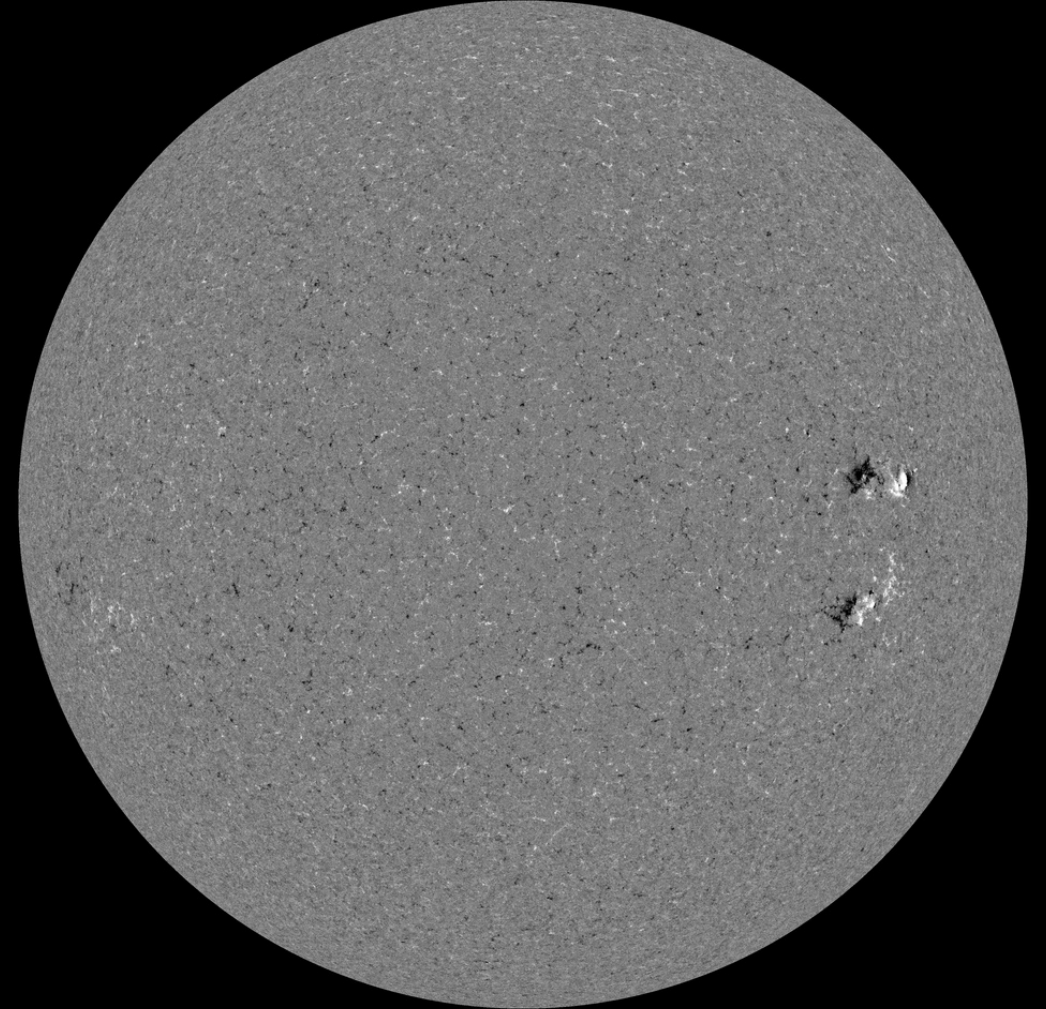
Solar active region - start of the week

SDO/HMI White Light 2018-08-26



SDO/HMI Quick-Look Continuum: 20180826_114500

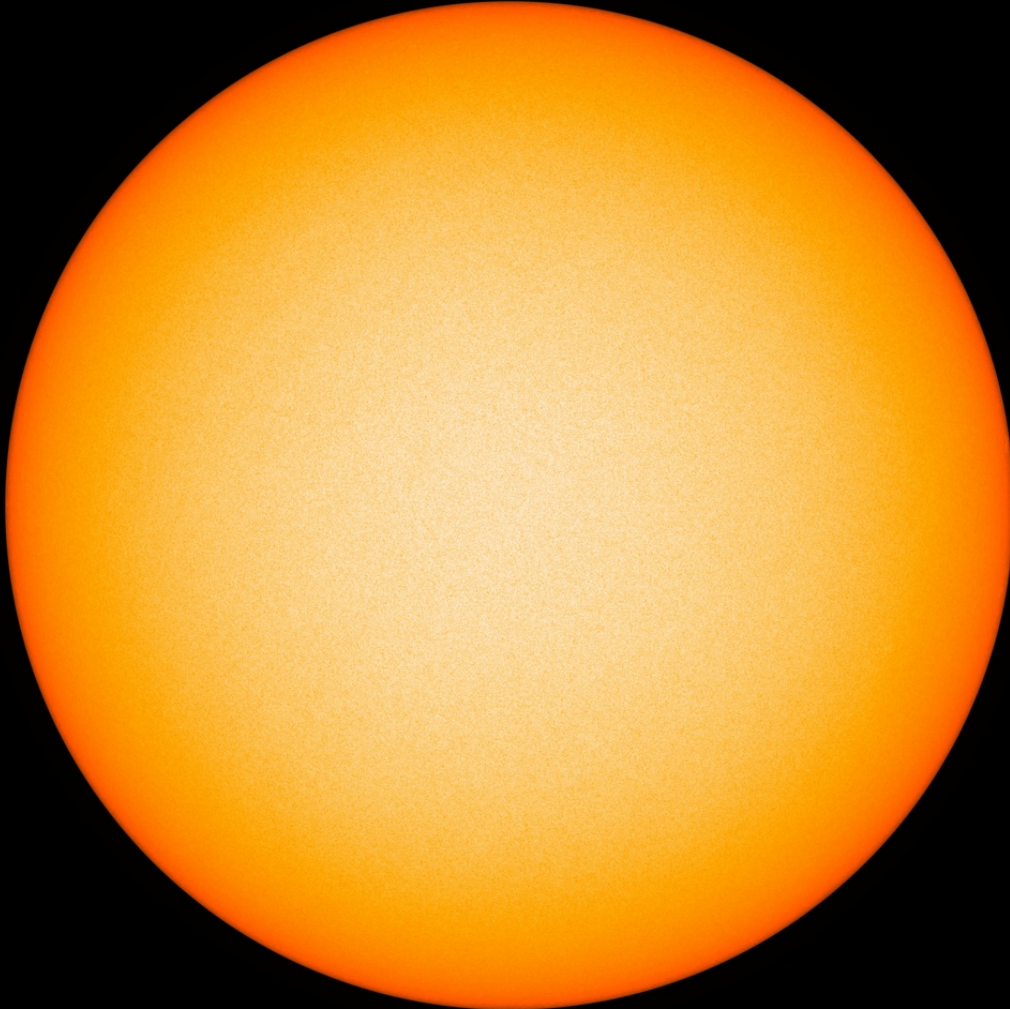
SDO/HMI Magnetogram 2018-08-26



SDO/HMI Quick-Look Magnetogram: 20180826_114500

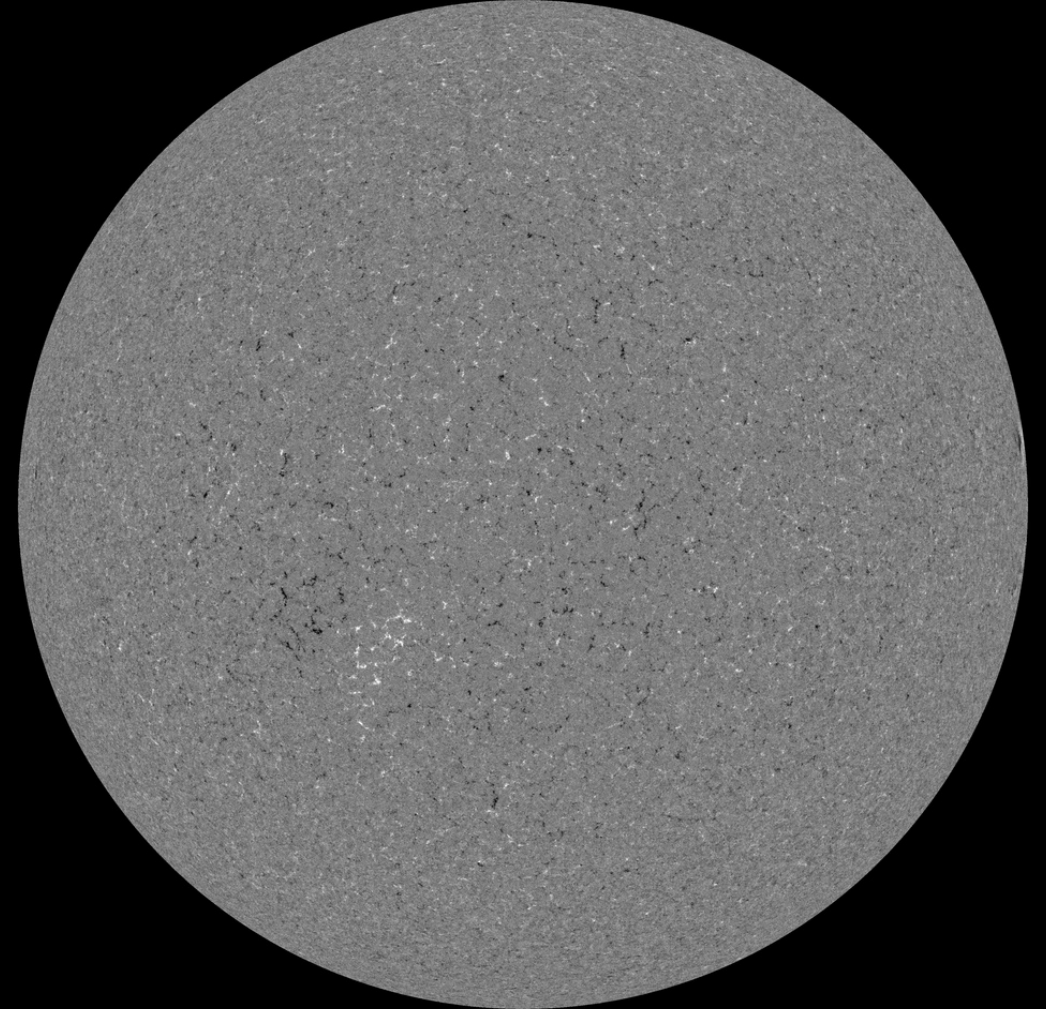
Solar active region - middle of the week

SDO/HMI White Light 2018-08-29



SDO/HMI Quick-Look Continuum: 20180829_114500

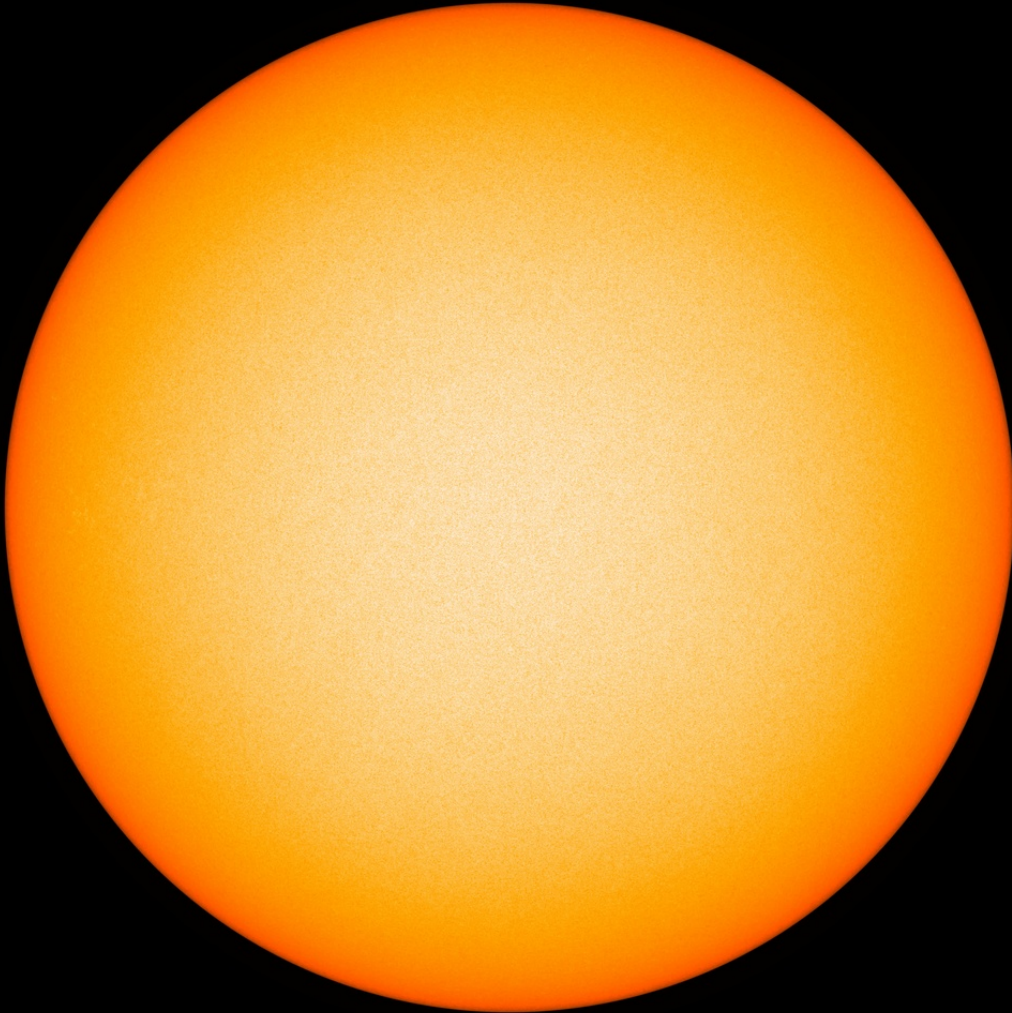
SDO/HMI Magnetogram 2018-08-29



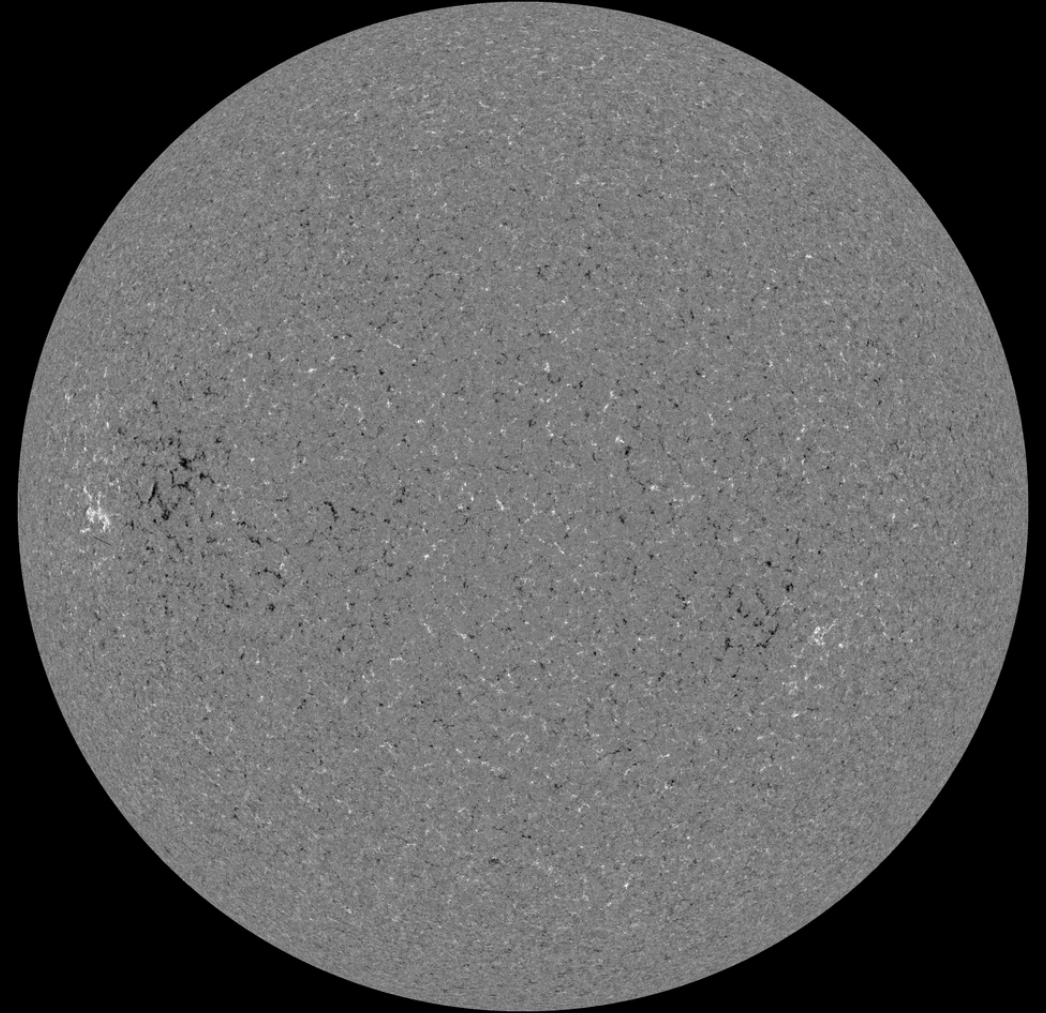
SDO/HMI Quick-Look Magnetogram: 20180829_114500

Solar active region - end of the week

SDO/HMI White Light 2018-09-02



SDO/HMI Magnetogram 2018-09-02

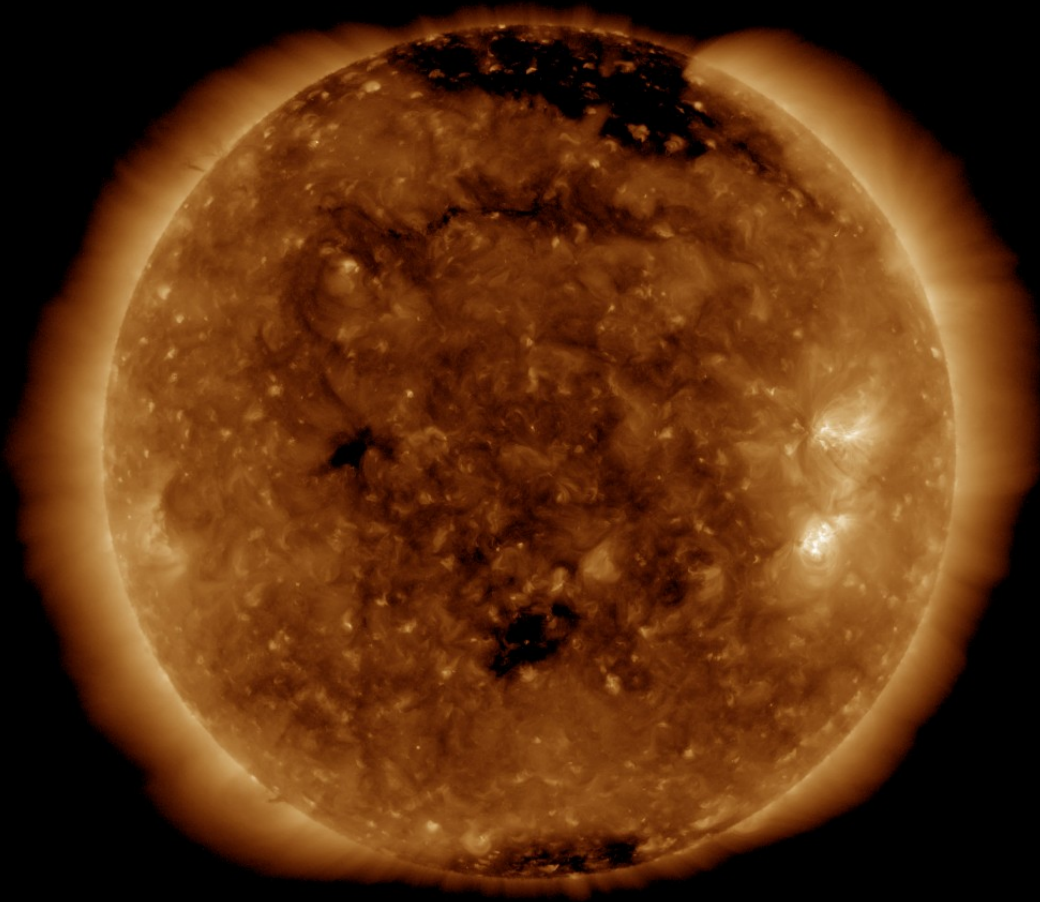


SDO/HMI Quick-Look Continuum: 20180902_114500

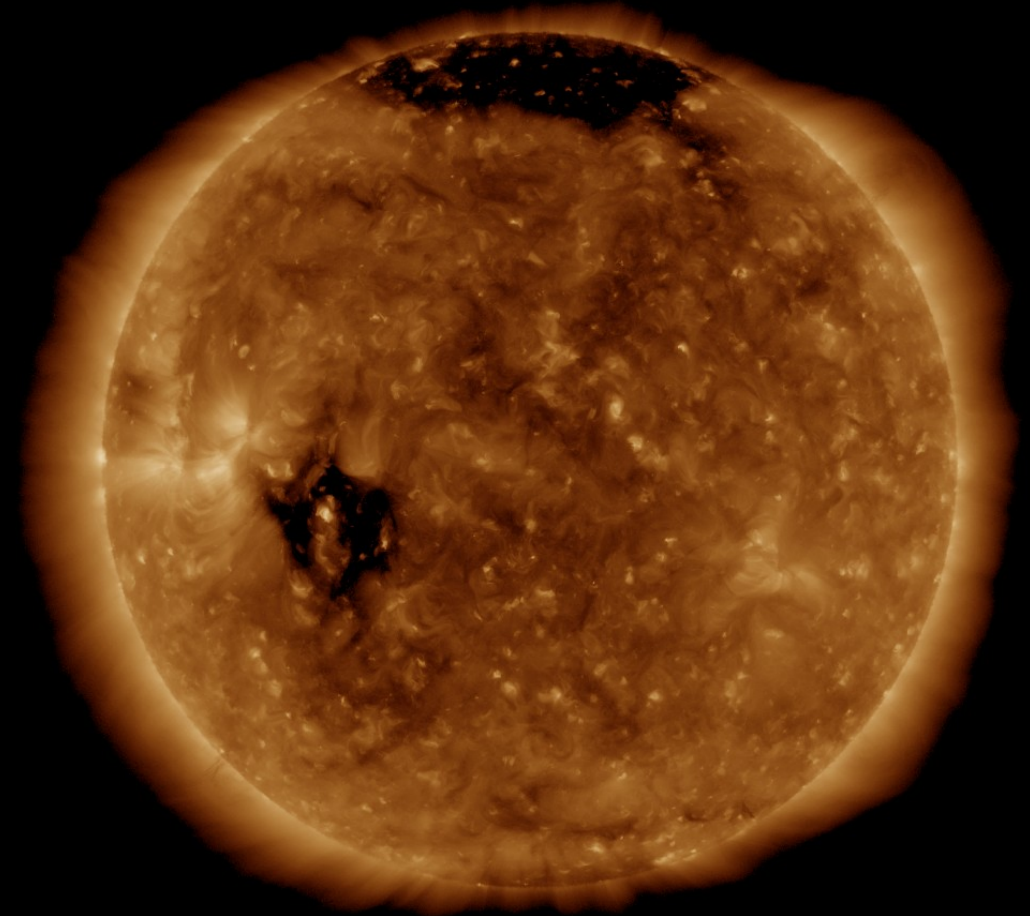
SDO/HMI Quick-Look Magnetogram: 20180902_114500

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2018-08-26



SDO/AIA 19.3 nm 2018-09-02

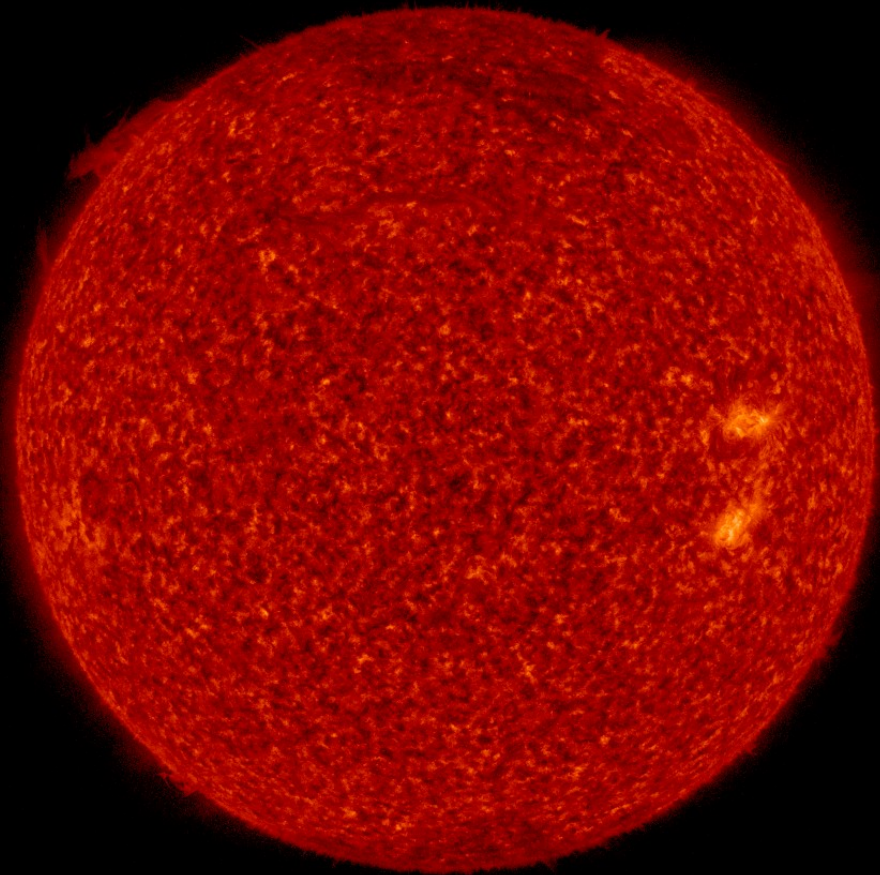


SDO/AIA 193 2018-08-26 12:10:41 UT

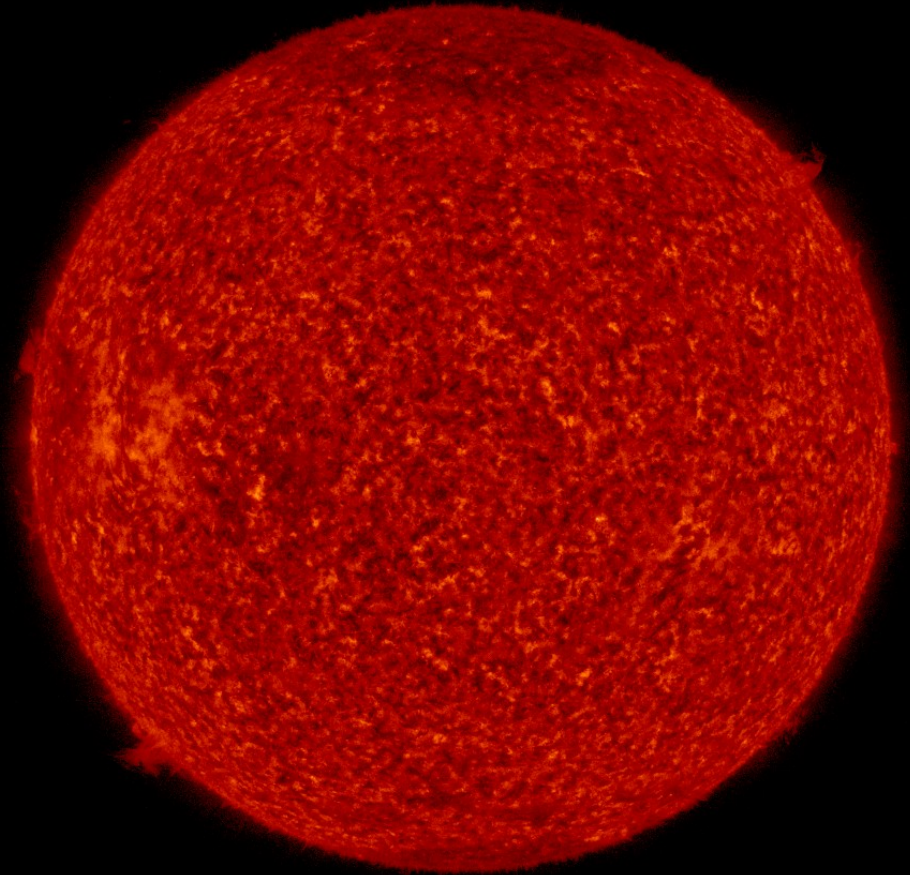
SDO/AIA 193 2018-09-02 12:11:05 UT

Solar active region & Filament

SDO/AIA 30.4 nm 2018-08-26



SDO/AIA 30.4 nm 2018-09-02



SDO/AIA 304 2018-08-26 12:14:06 UT

SDO/AIA 304 2018-09-02 12:13:42 UT

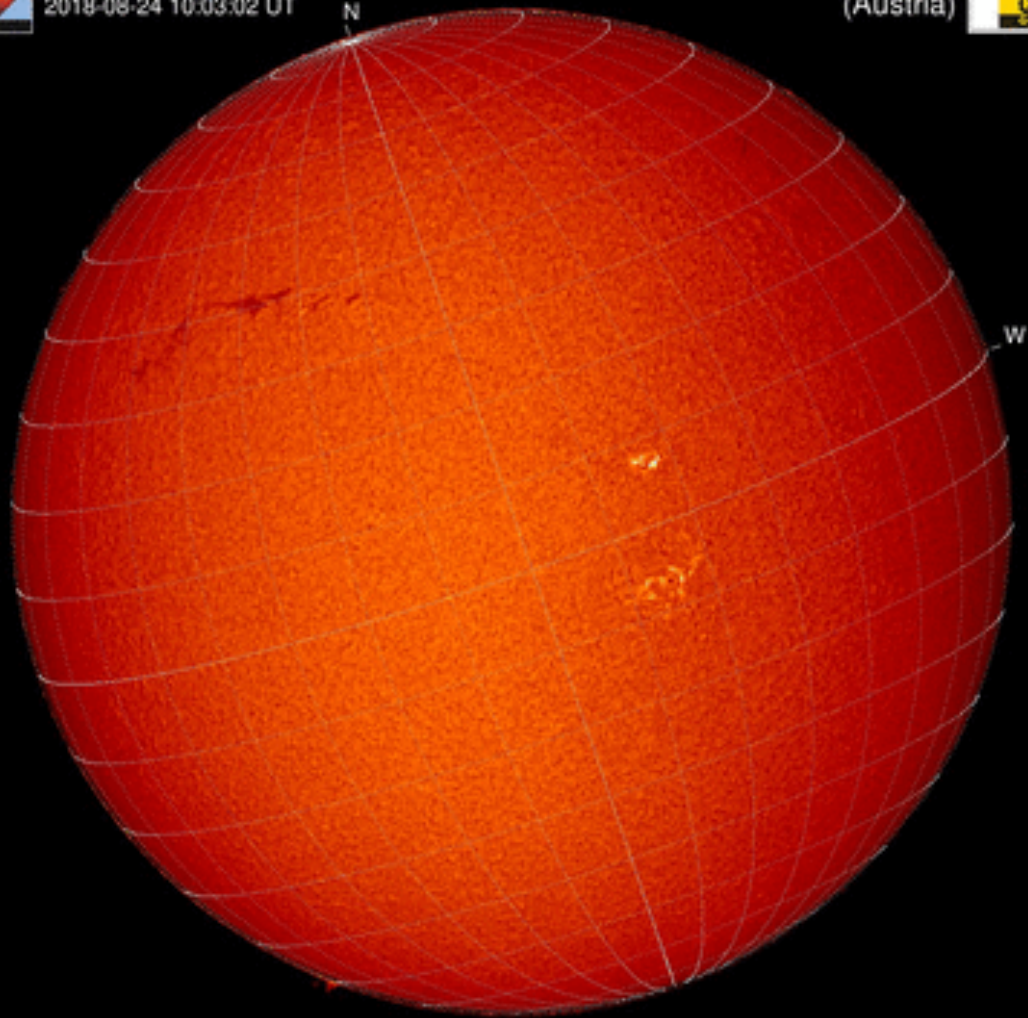
Filament & Filament eruption

H-alpha 2018-08-26



Kanzelhöhe Observatory
2018-08-24 10:03:02 UT

University of Graz
(Austria)

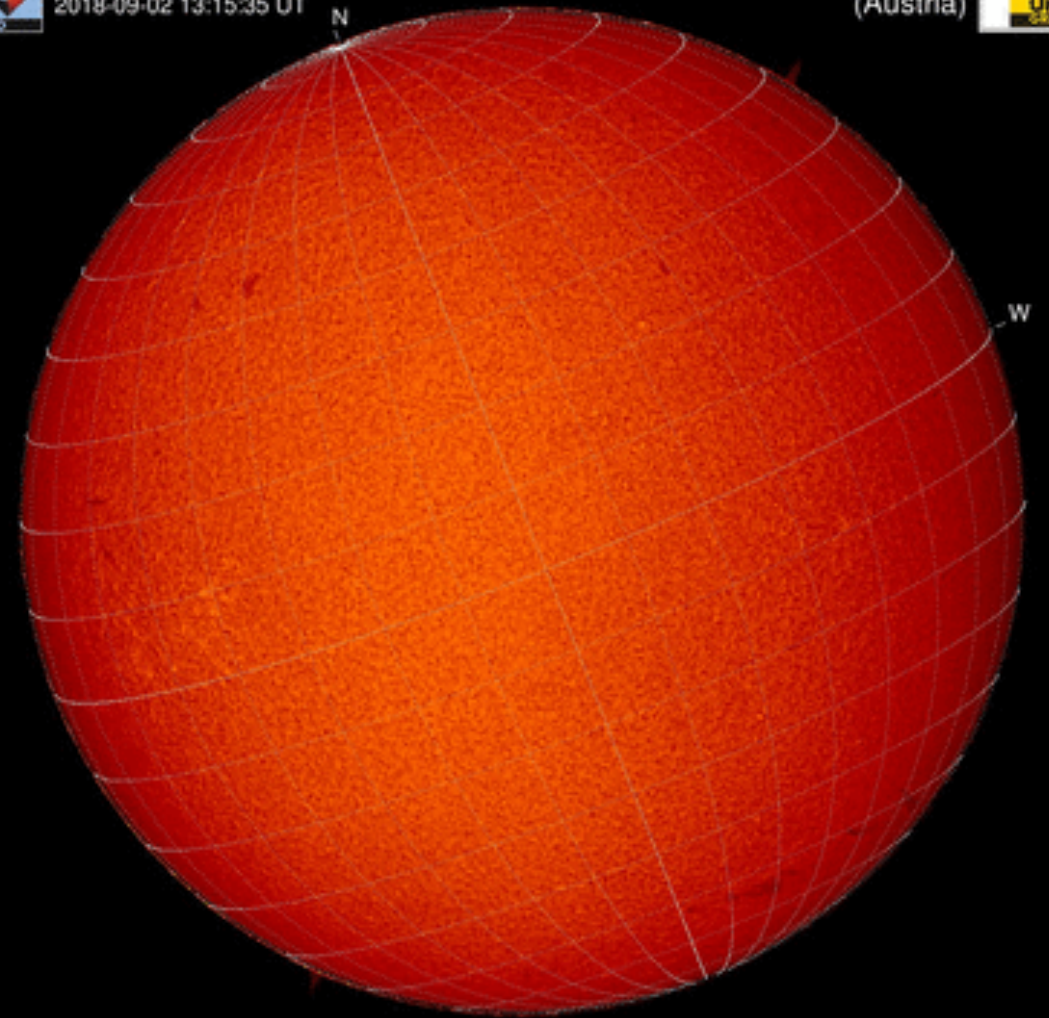


H-alpha 2018-09-02

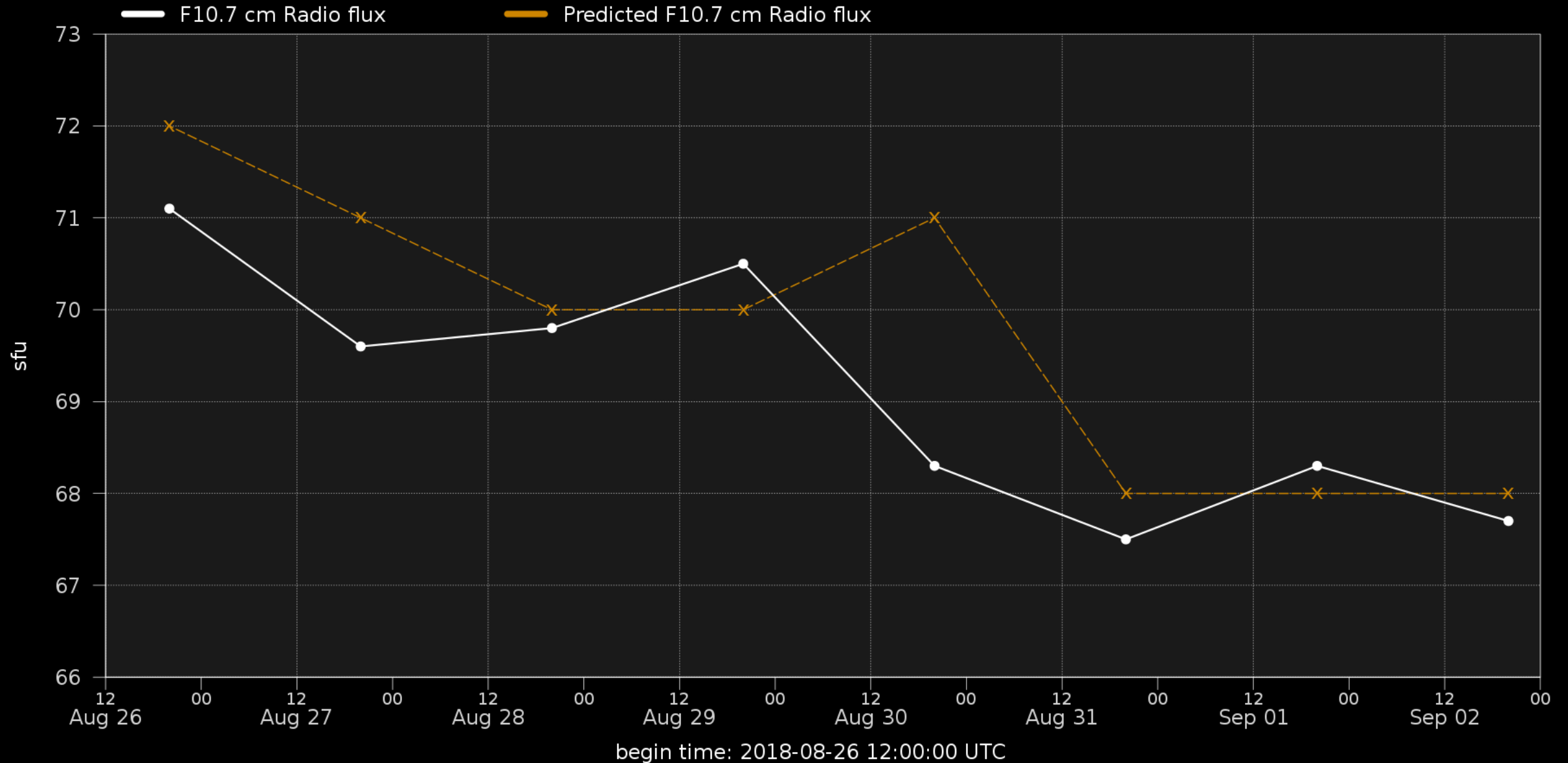


Kanzelhöhe Observatory
2018-09-02 13:15:35 UT

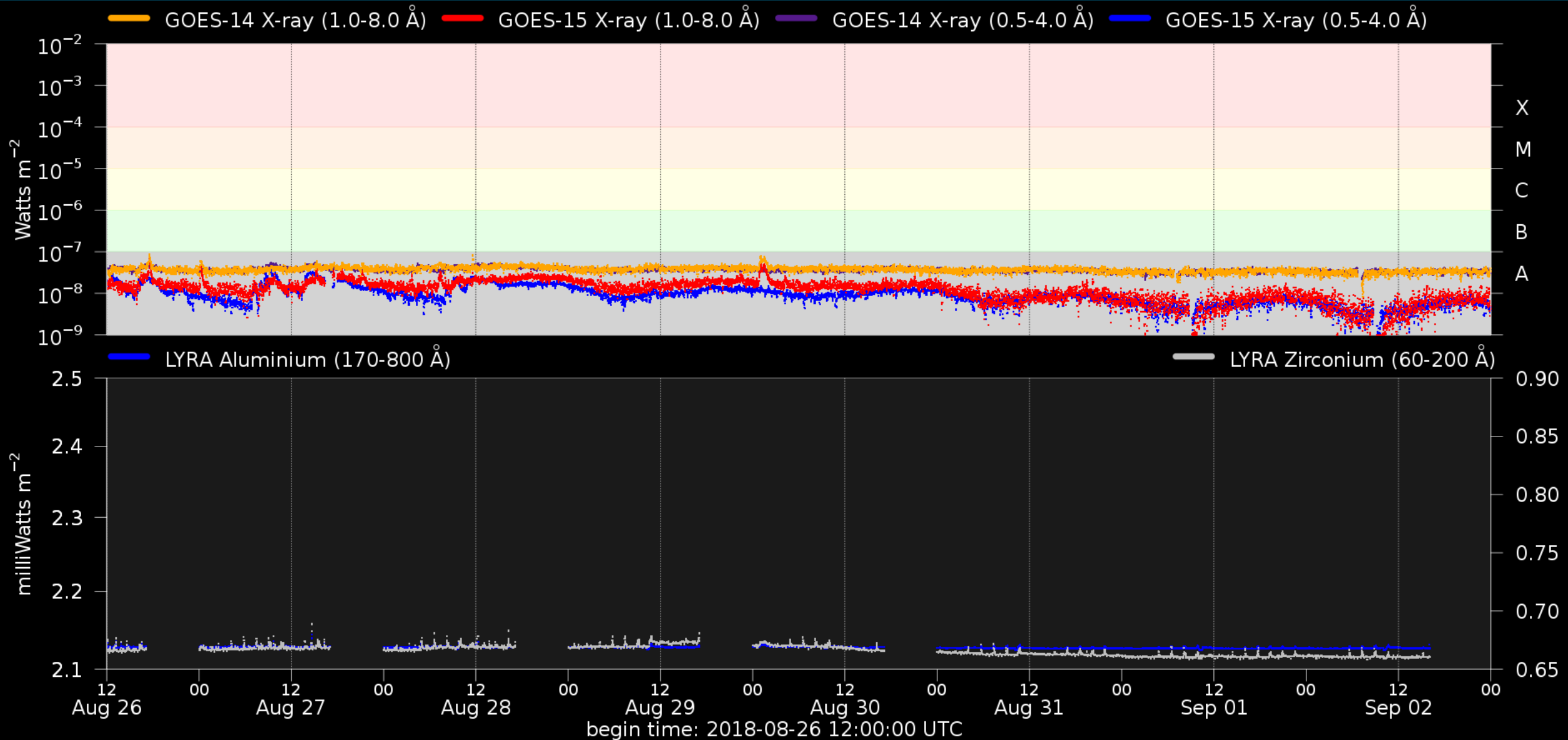
University of Graz
(Austria)



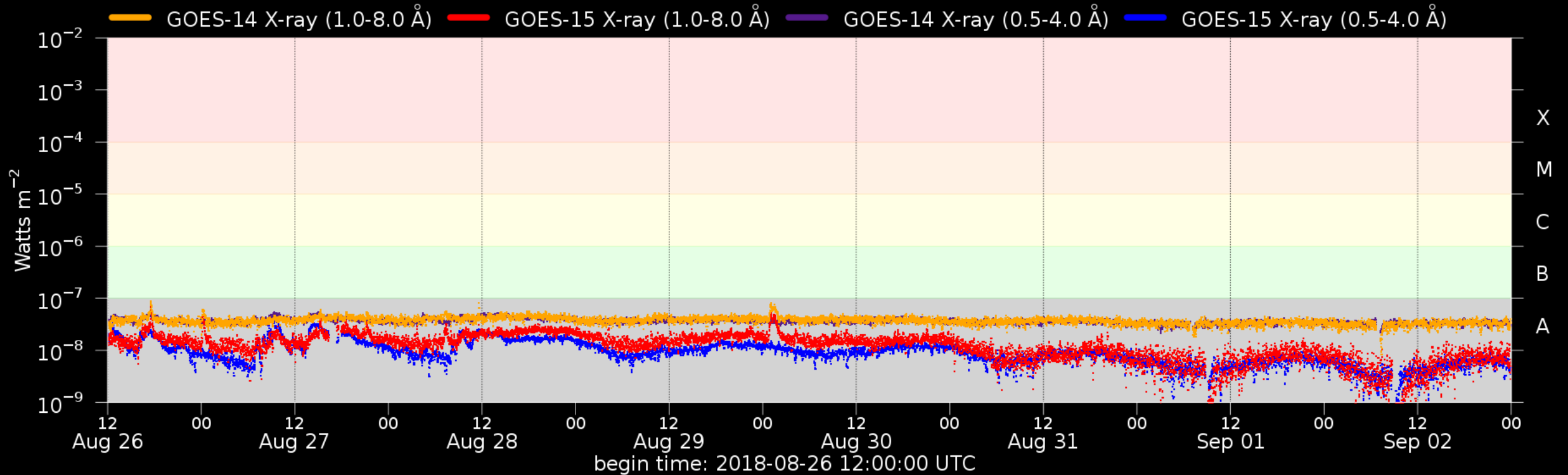
Solar F10.7cm radio flux



Solar X-Ray and UV flux



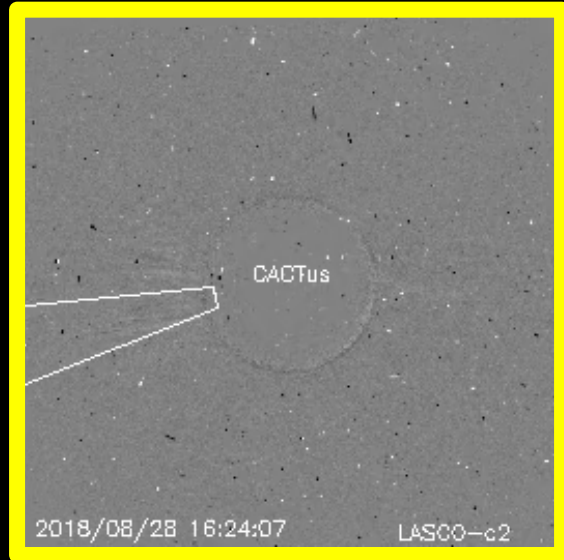
Flaring activity



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

Issue date	2018-08-26	2018-08-27	2018-08-28	2018-08-29	2018-08-30	2018-08-31	2018-09-01	2018-09-02
Probability	--- 15 01 01	--- 15 05 01	--- 05 01 01	--- 15 01 01	--- 15 02 01	--- 05 01 01	--- 05 01 01	--- 05 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

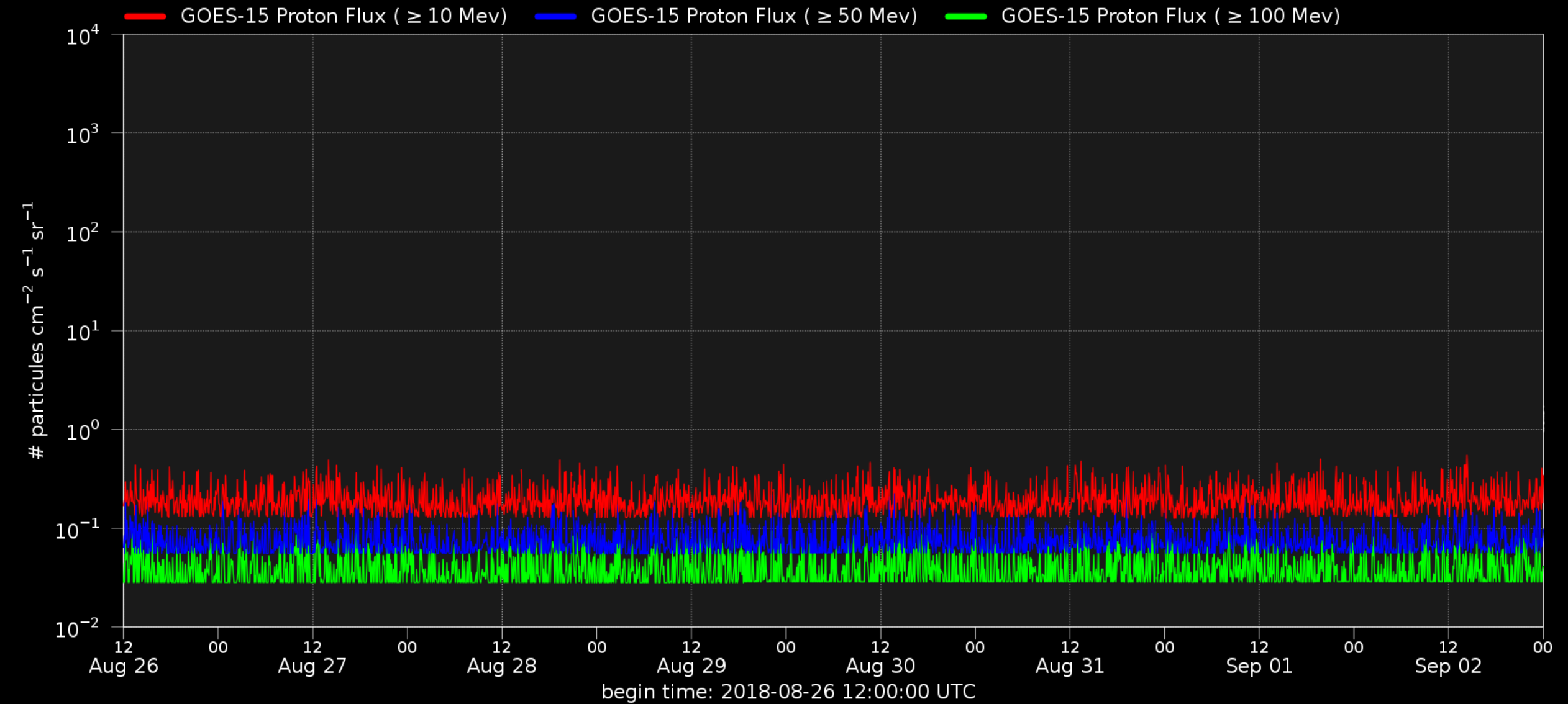
Coronal Mass Ejection



Eastbound CME on 28/8/2018 → not earth directed

Time	Date
08:12	09/01
20:48	09/01
18:06	09/01
15:42	09/01
12:24	09/01
09:24	09/01
06:12	09/01
03:36	09/01
00:00	09/01
20:36	08/31
18:04	08/31
14:48	08/31
11:48	08/31
08:30	08/31
05:18	08/31
01:25	08/31
21:36	08/30
18:24	08/30
15:12	08/30
12:00	08/30
09:24	08/30
06:24	08/30
03:48	08/30
00:30	08/30
21:36	08/29
19:00	08/29
16:24	08/29
13:25	08/29
10:00	08/29
07:12	08/29
04:36	08/29
02:00	08/29
22:12	08/28
19:06	08/28
16:24	08/28
13:36	08/28
10:24	08/28
07:24	08/28
04:24	08/28
01:48	08/28
22:12	08/27
19:12	08/27
15:30	08/27
12:24	08/27
09:30	08/27
06:24	08/27
03:36	08/27
00:30	08/27

Solar proton flux

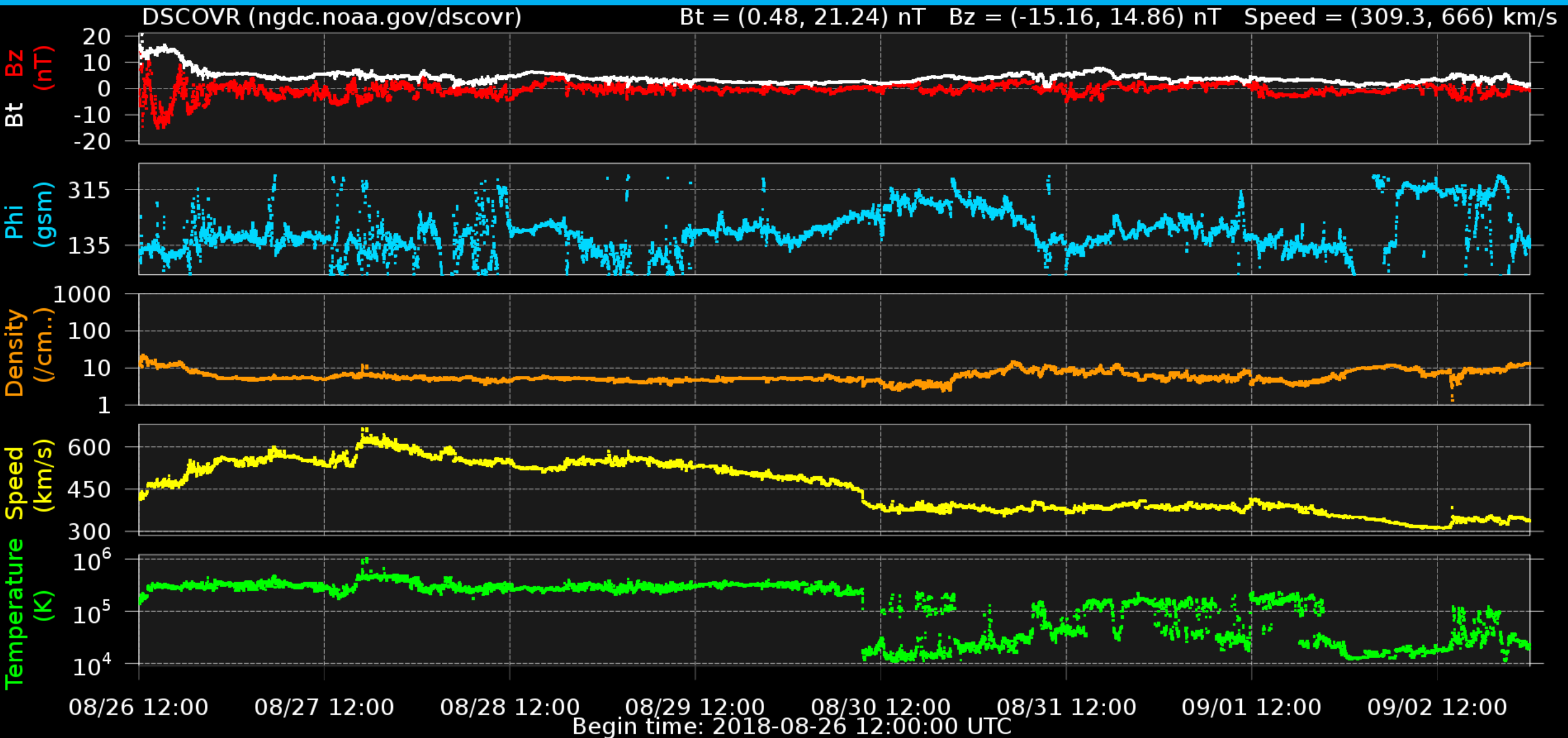


Solar Wind and Geomagnetic Activity

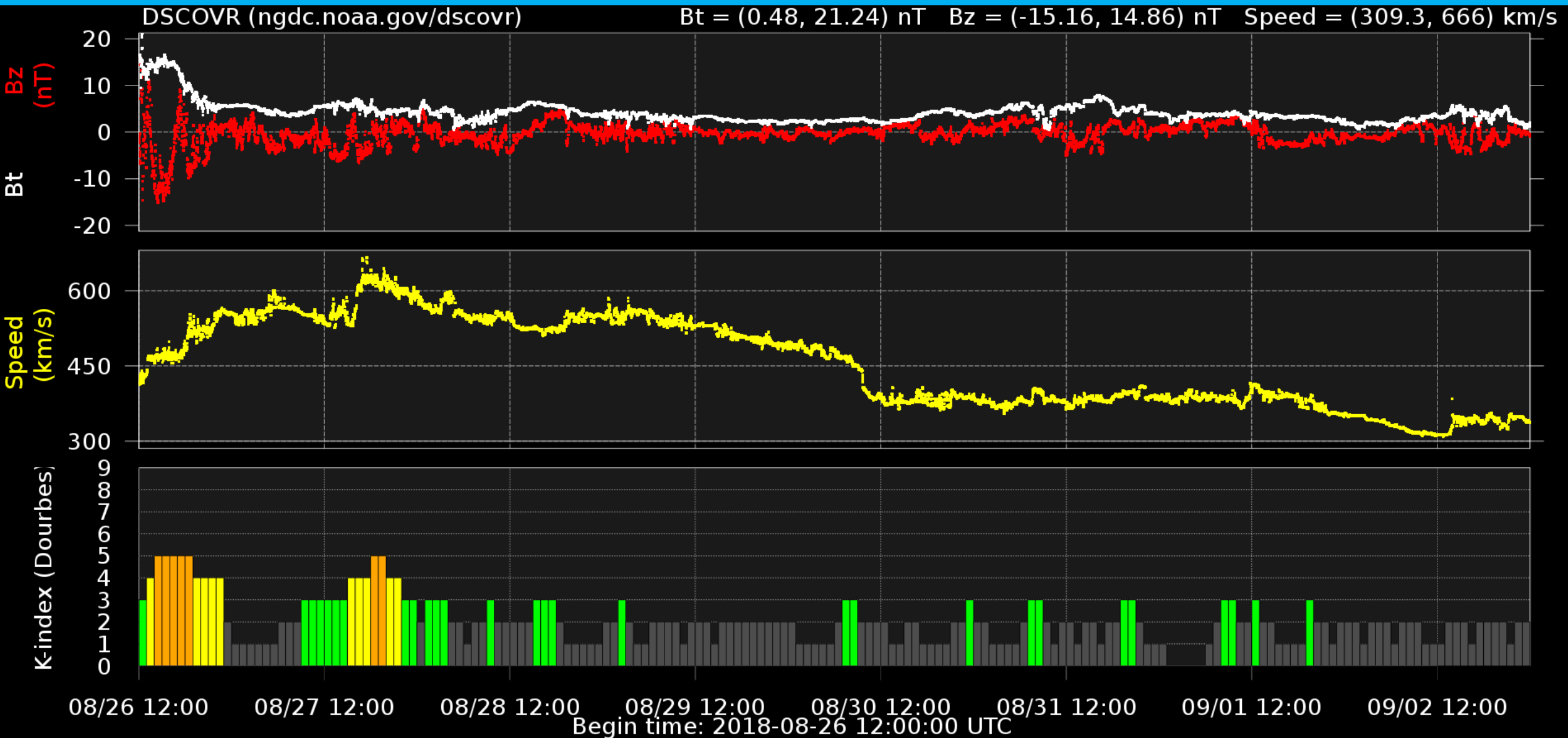


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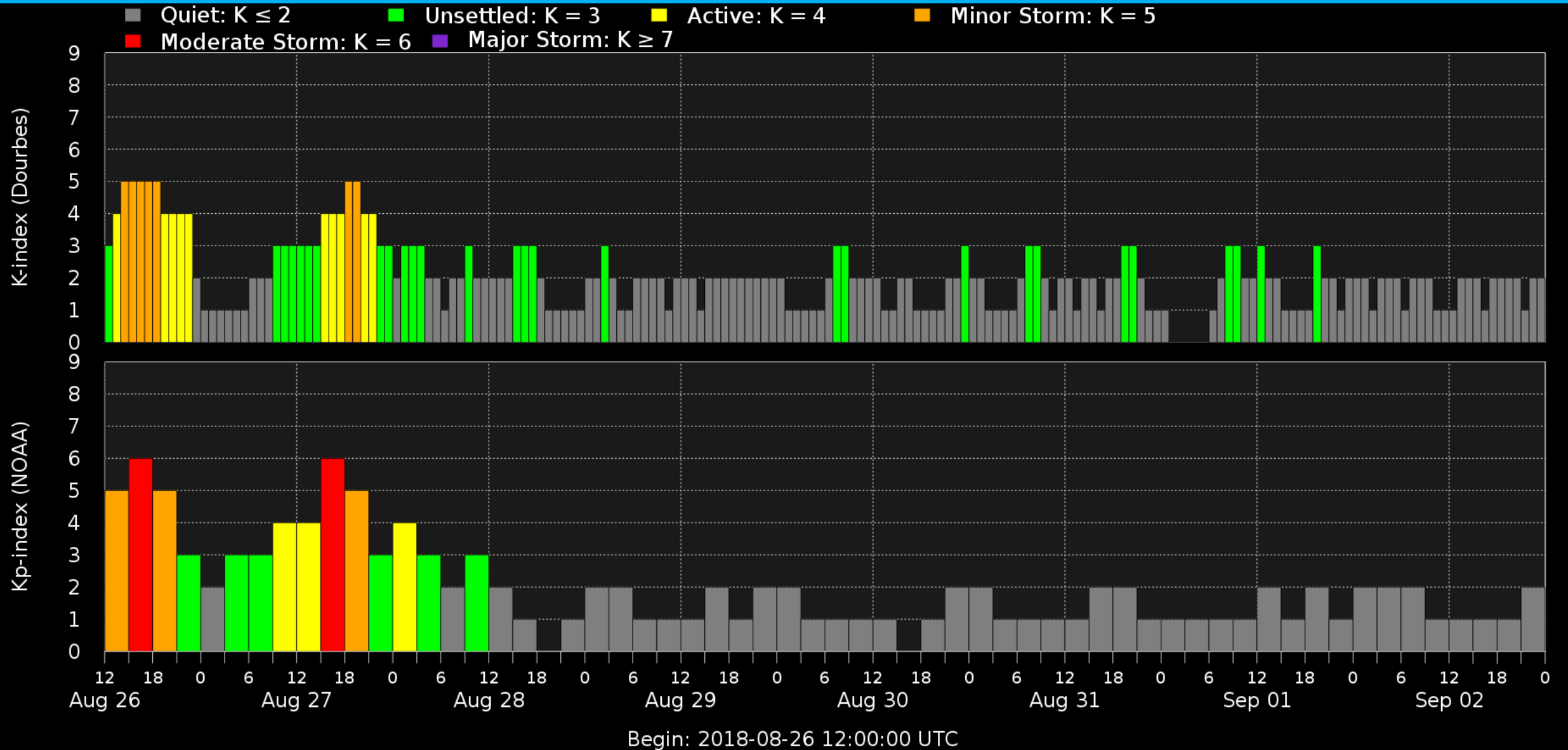
Solar wind parameters (DSCOVR data)



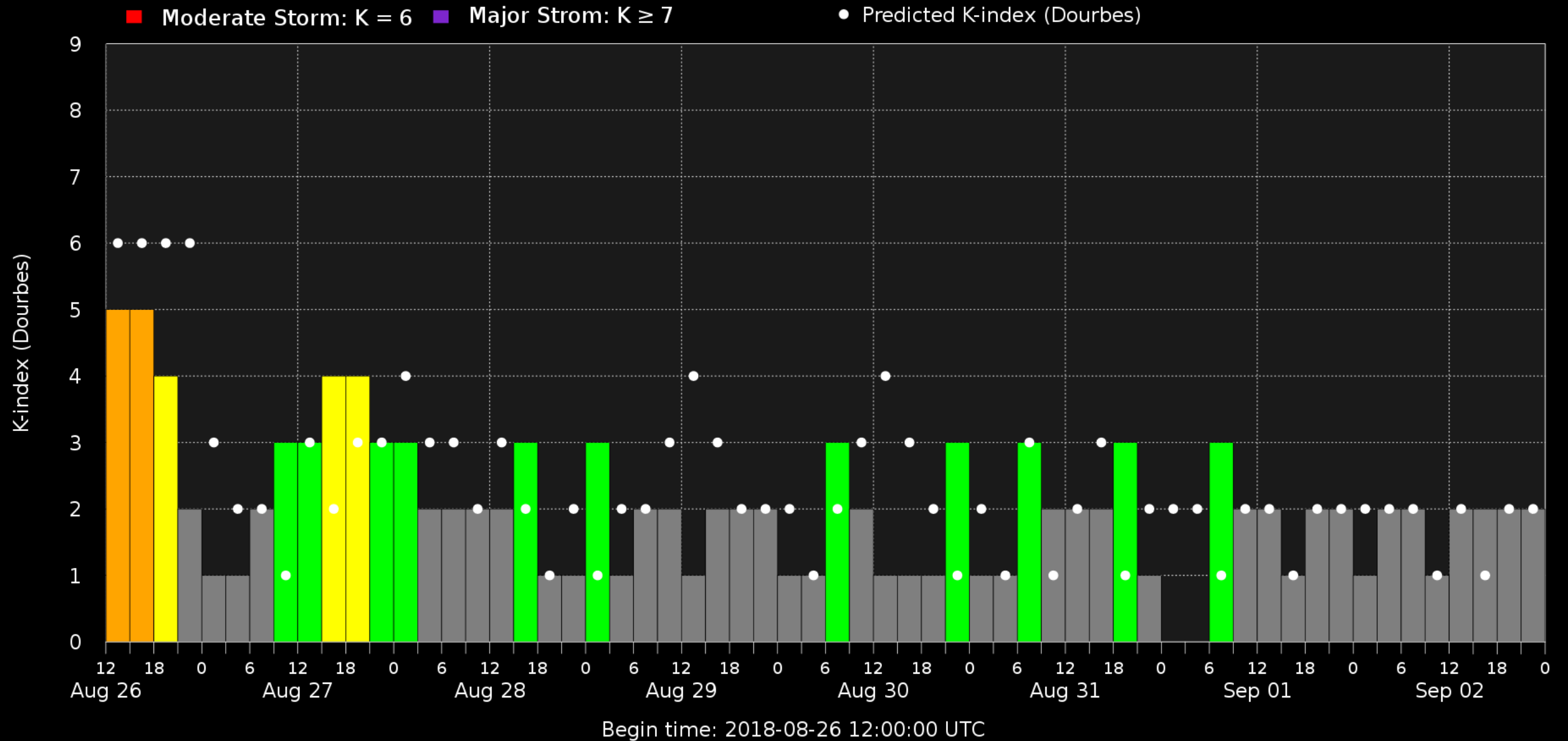
Solar wind parameters & K-index (DSCOVR/Dourbes)



Geomagnetic activity (K-indexes)



K-Dourbes index



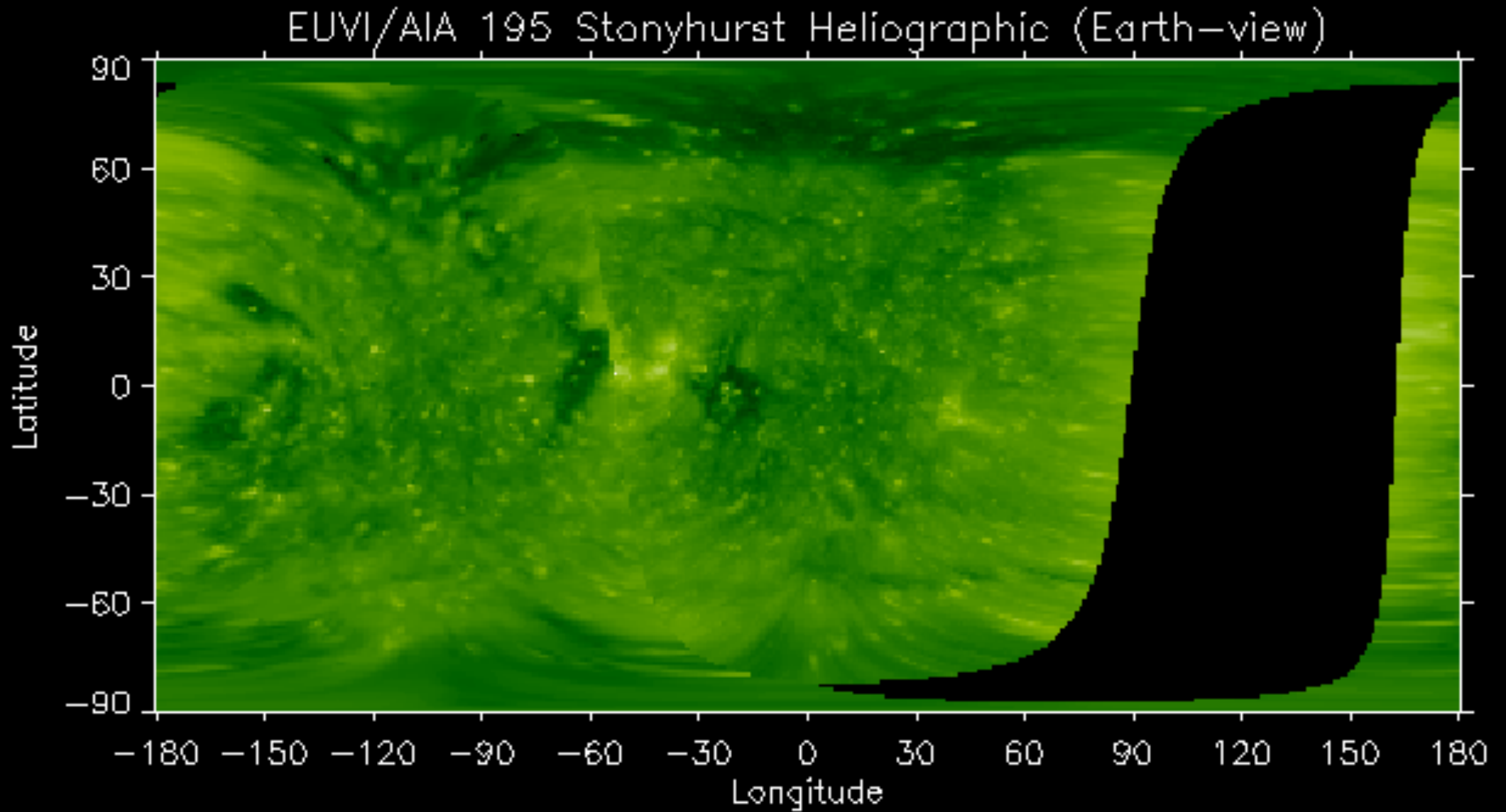
Outlook



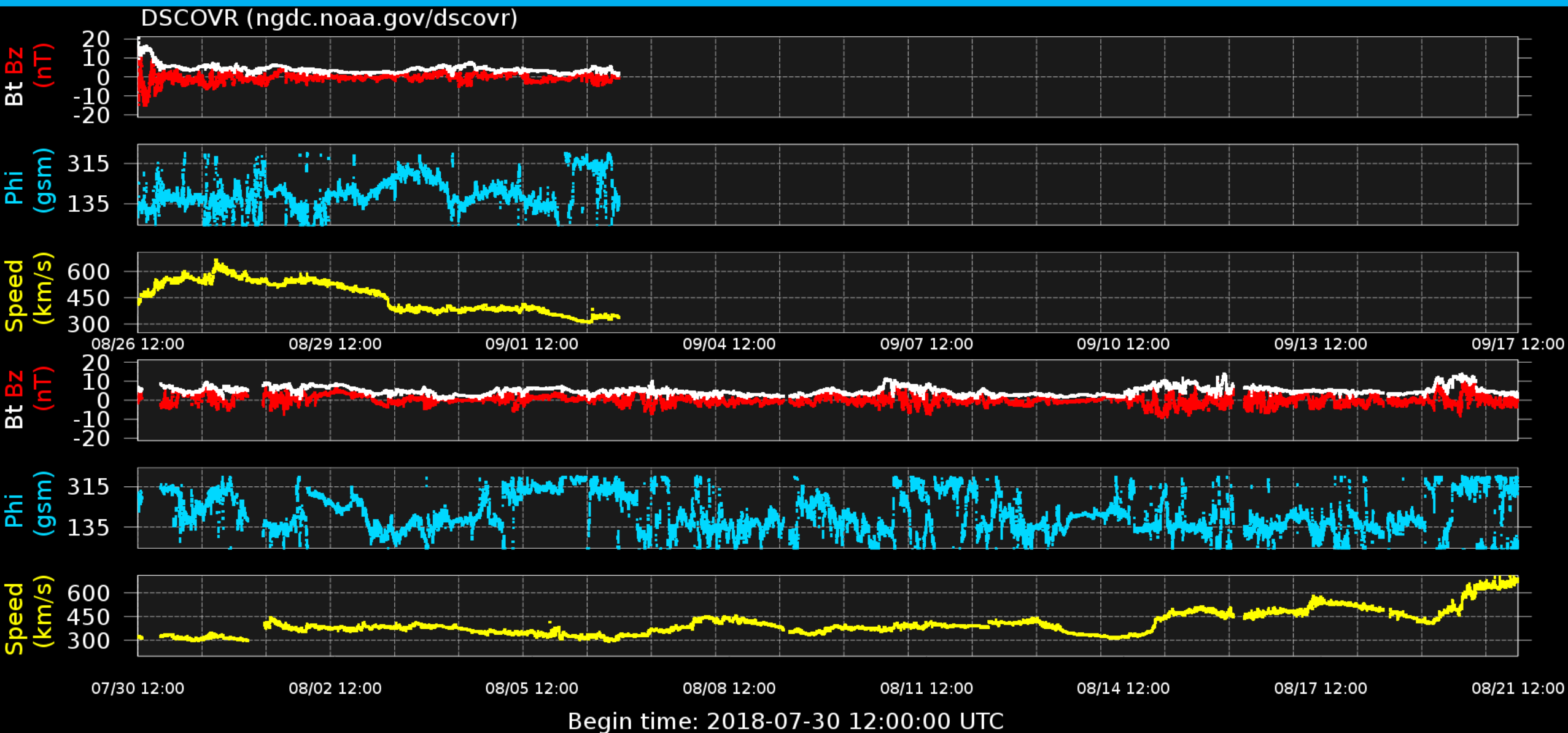
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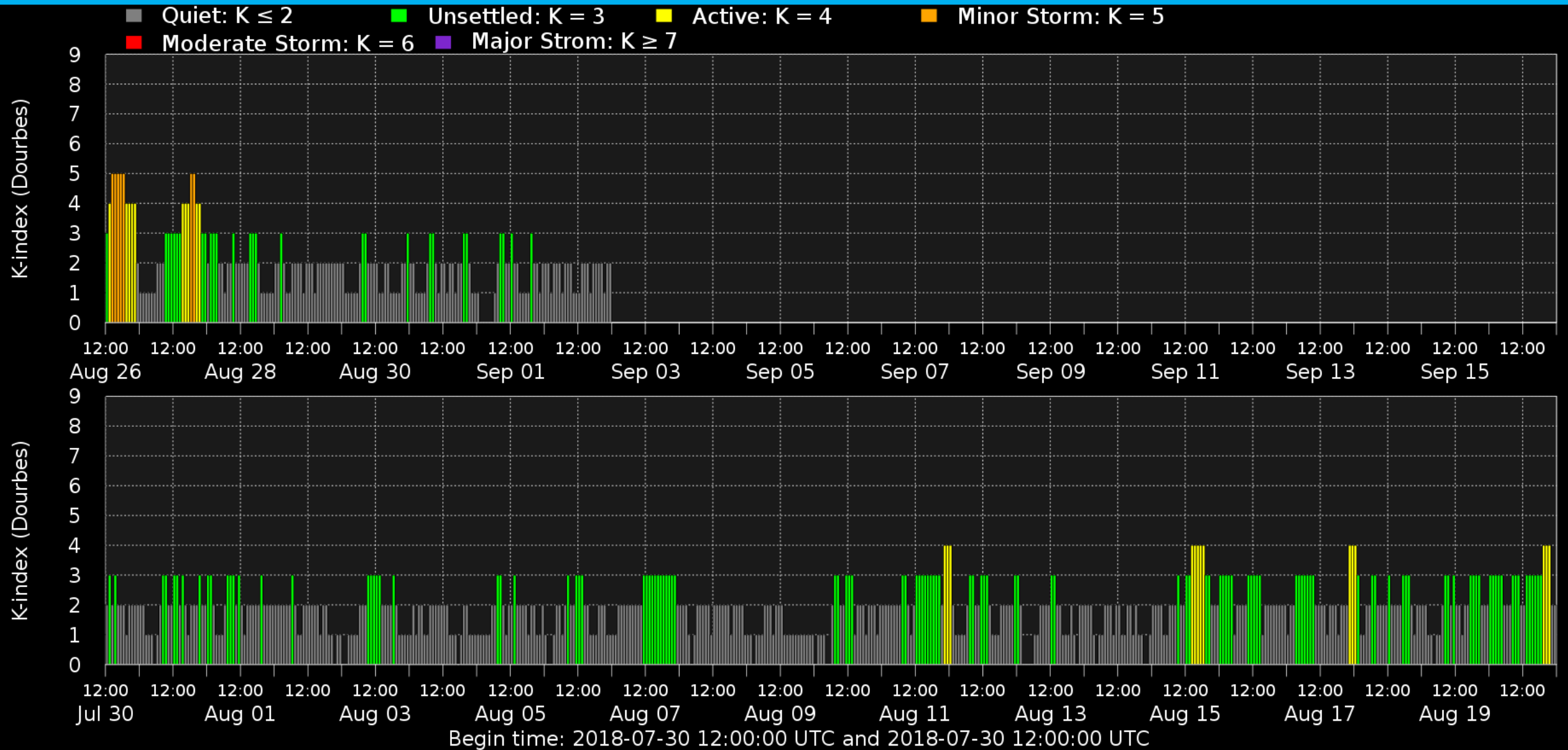
Outlook: Solar activity



Outlook: Solar wind



Outlook: Geomagnetic activity



SIDC Space Weather Briefing

See you at our next briefing!

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