

SIDC Space Weather Briefing

12 August 2018 - 19 August 2018

Judith de Patoul
& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2018-08-12 12:00 UT to 2018-08-19 12:00 UT

Active regions	NOAA 2718 and NOAA 2719
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	/
CMEs	On small CME associated with a A-class flare
Proton Events	/

Solar wind and geomagnetic conditions from 2018-08-12 12:00 UT to 2018-08-19 12:00 UT

Coronal Holes	Two geo-effective coronal holes
ICME	None
SW Conditions	Max 570 km/s
K-indices	max K-index (Dourbes): 4.0 max Kp-index (NOAA): 4

All Quiet Alert: Quiet alert from August 16 to 18, 2018.

Solar Activity

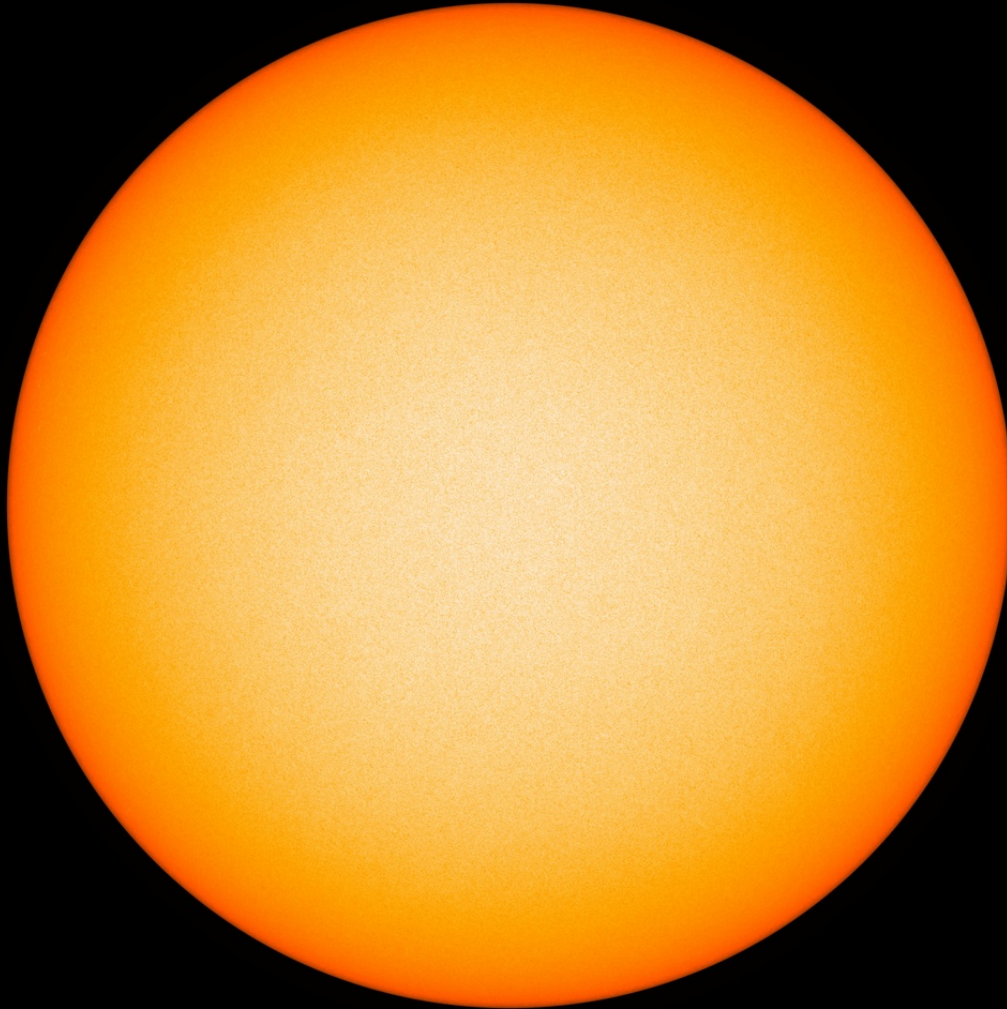


Royal Observatory
of Belgium

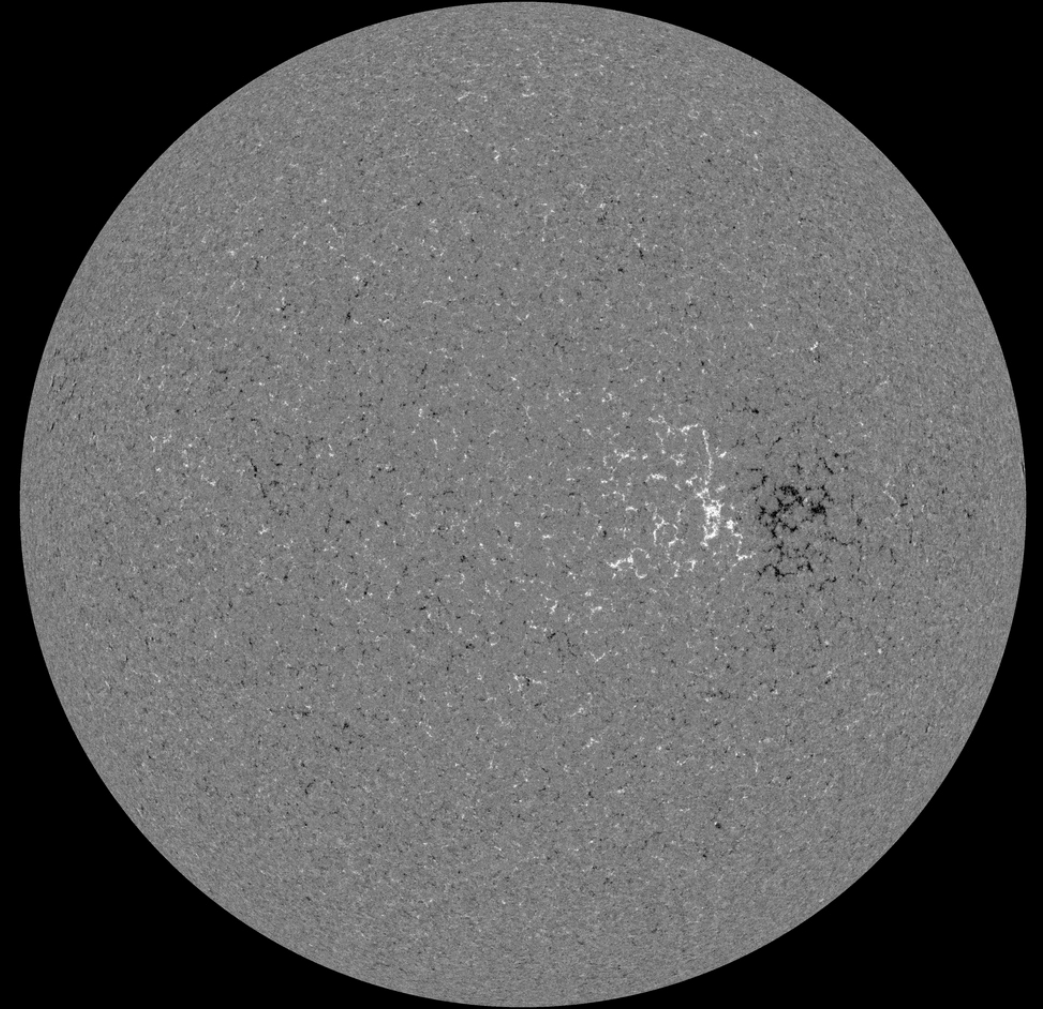
Solar Influences
Data analysis Centre
www.sidc.be

Solar active region - start of the week

SDO/HMI White Light 2018-08-12

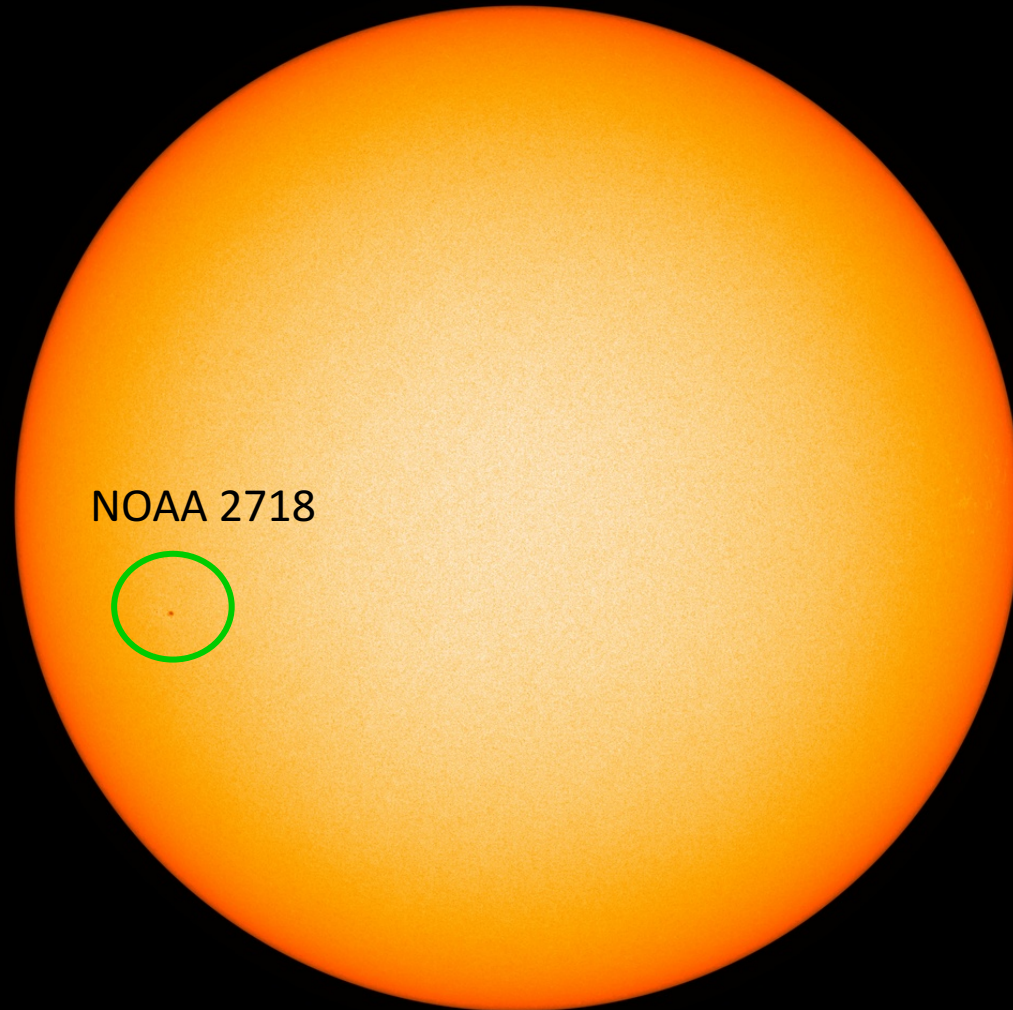


SDO/HMI Magnetogram 2018-08-12

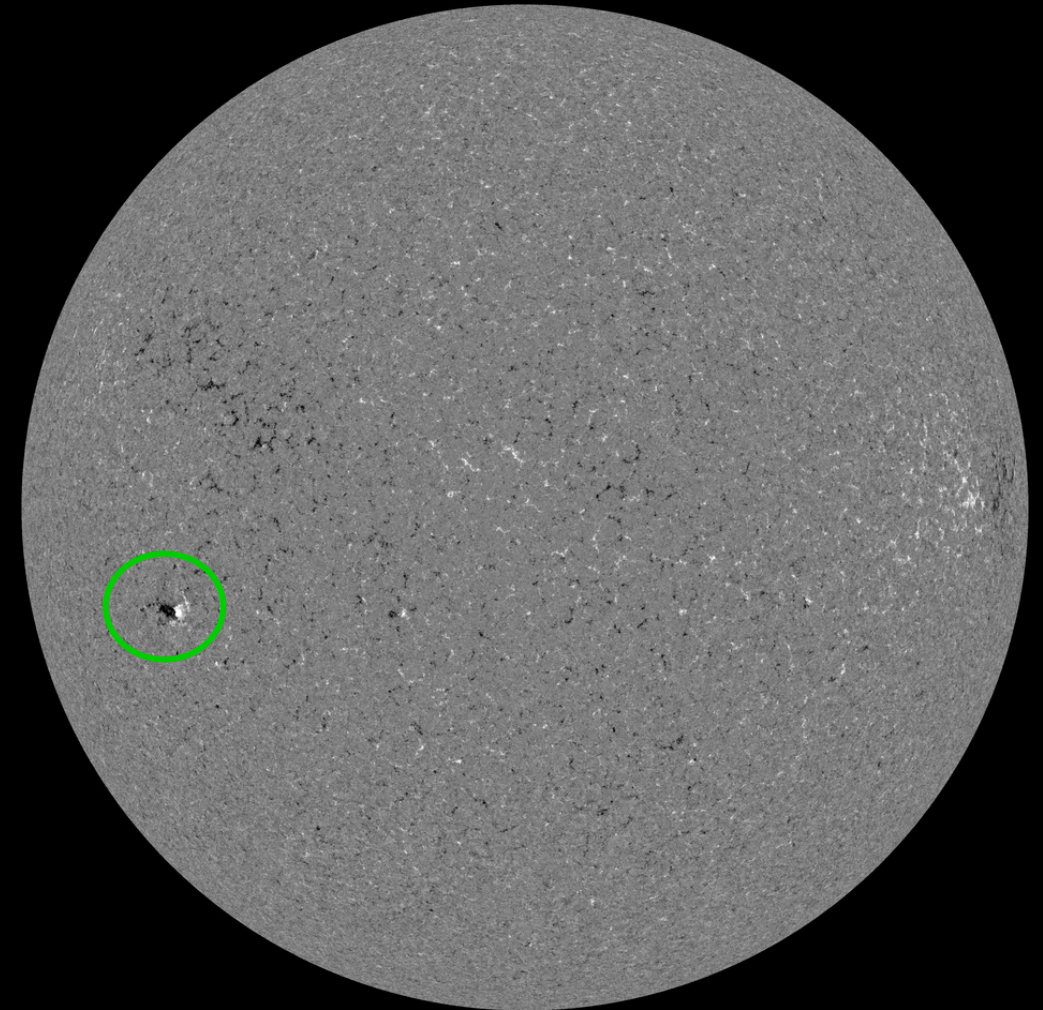


Solar active region - middle of the week

SDO/HMI White Light 2018-08-15

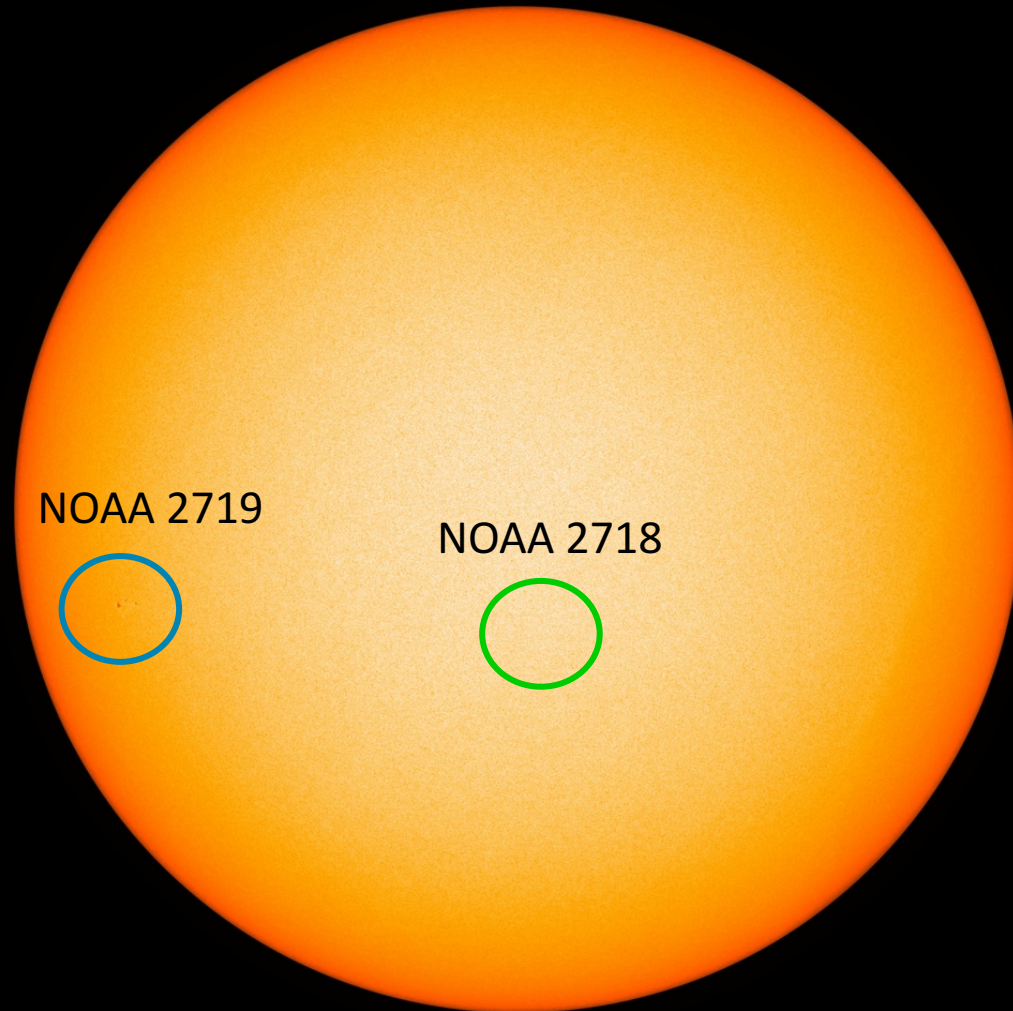


SDO/HMI Magnetogram 2018-08-15



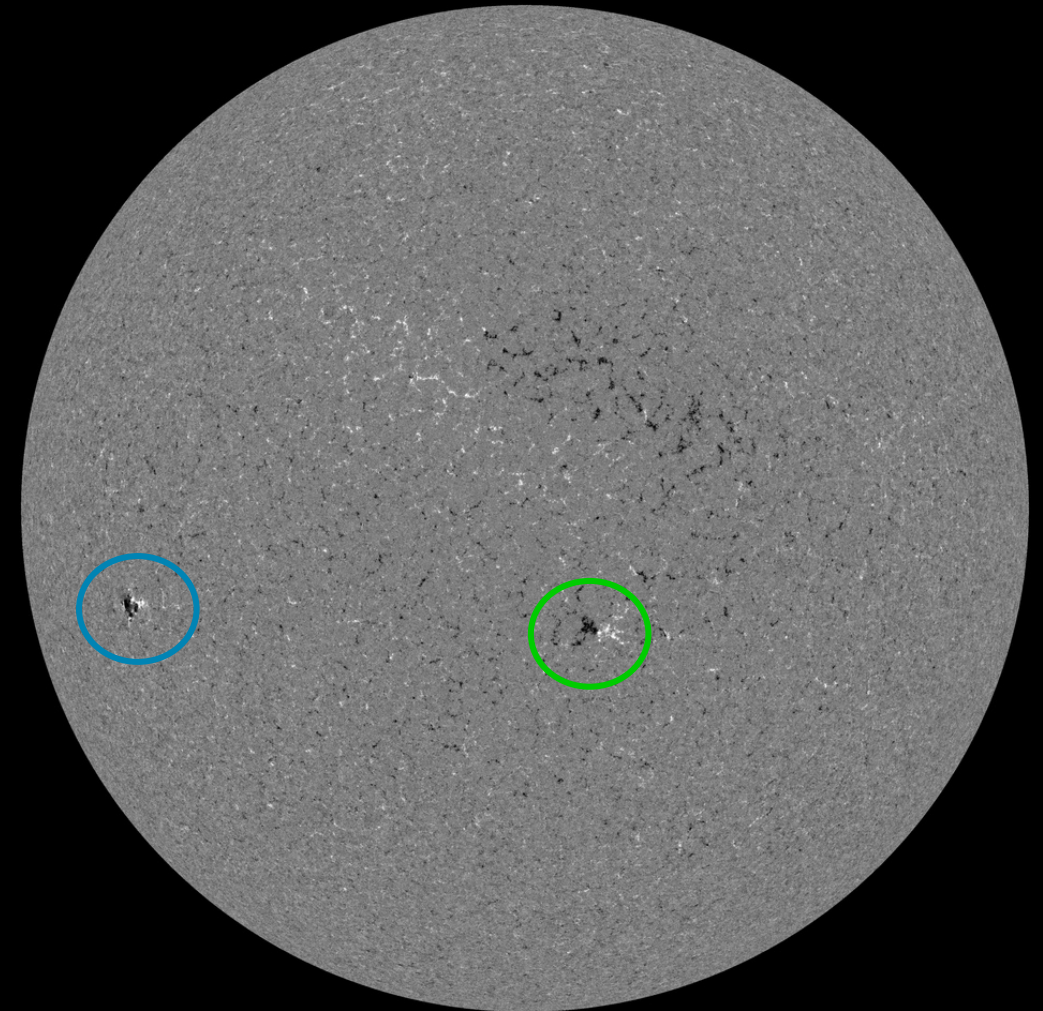
Solar active region - end of the week

SDO/HMI White Light 2018-08-19



SDO/HMI Quick-Look Continuum: 20180819_114500

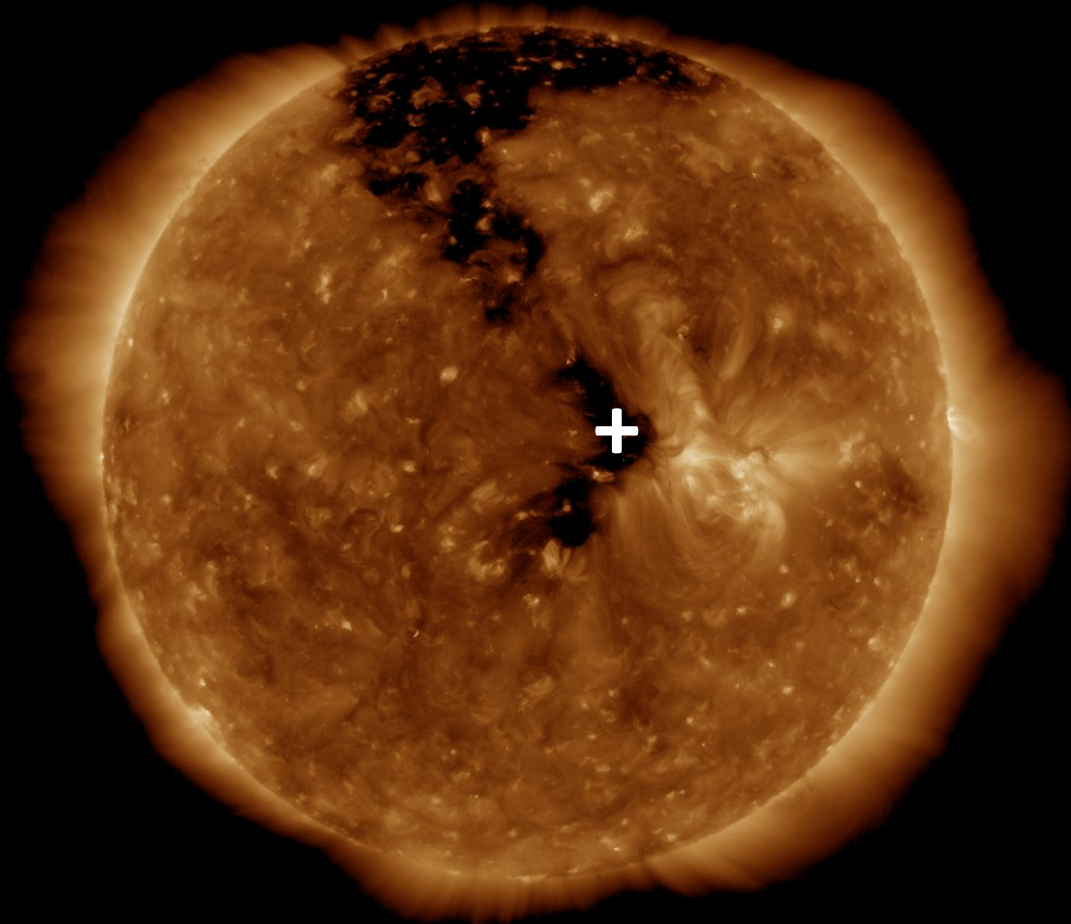
SDO/HMI Magnetogram 2018-08-19



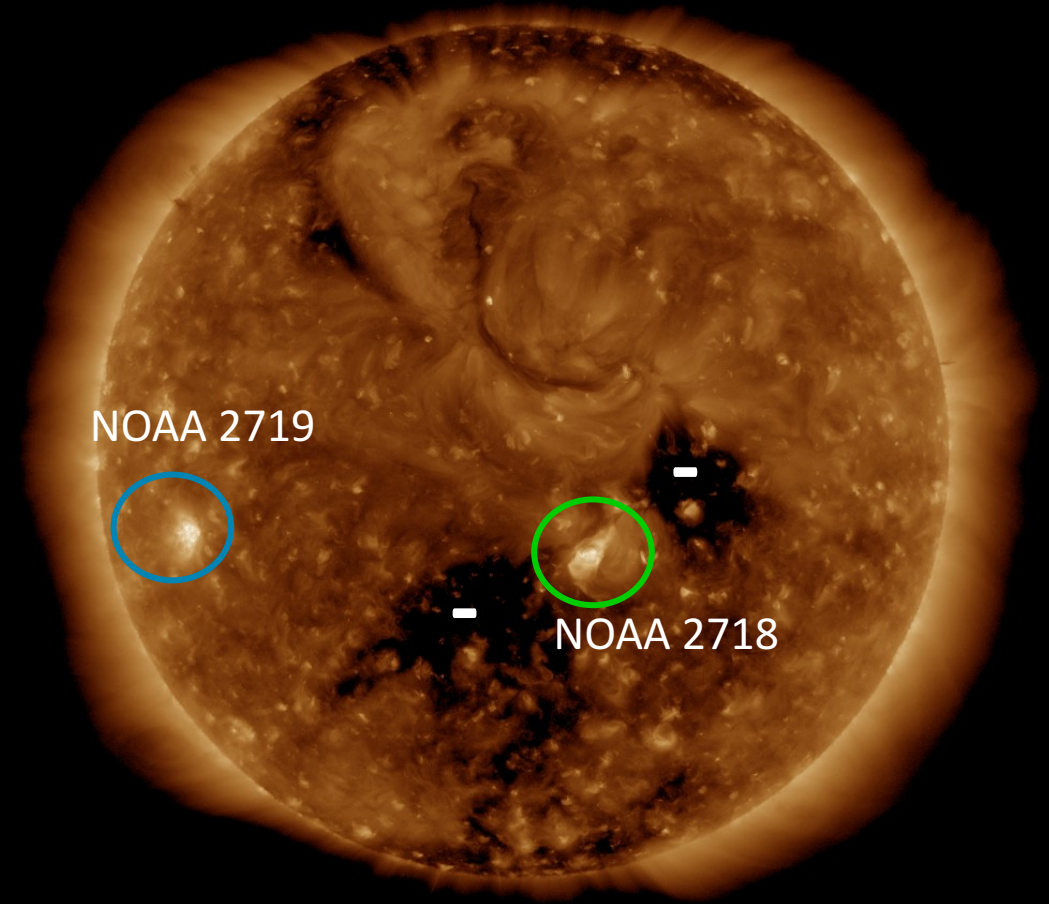
SDO/HMI Quick-Look Magnetogram: 20180819_114500

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2018-08-12



SDO/AIA 19.3 nm 2018-08-19



SDO/AIA 193 2018-08-12 12:10:29 UT

SDO/AIA 193 2018-08-19 12:10:53 UT

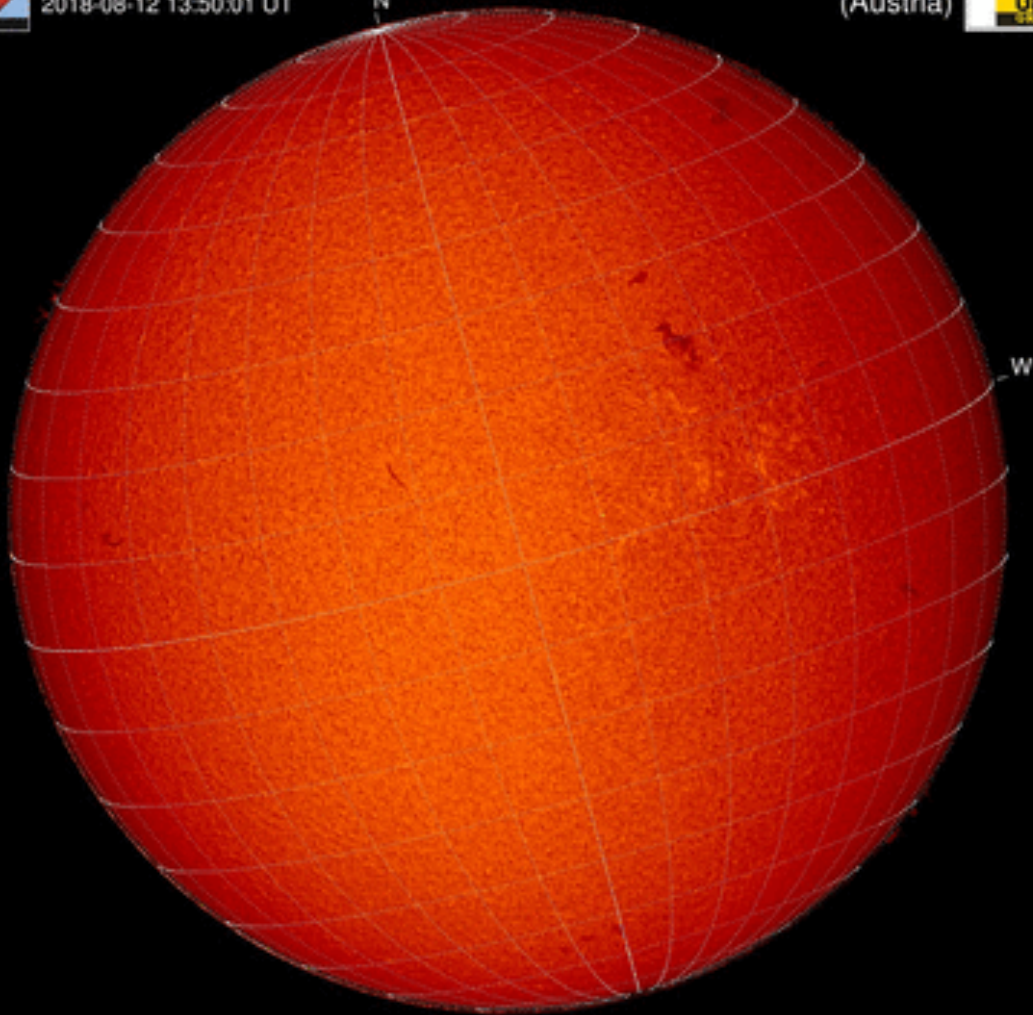
Filament & Filament eruption

H-alpha 2018-08-12



Kanzelhöhe Observatory
2018-08-12 13:50:01 UT

University of Graz
(Austria)

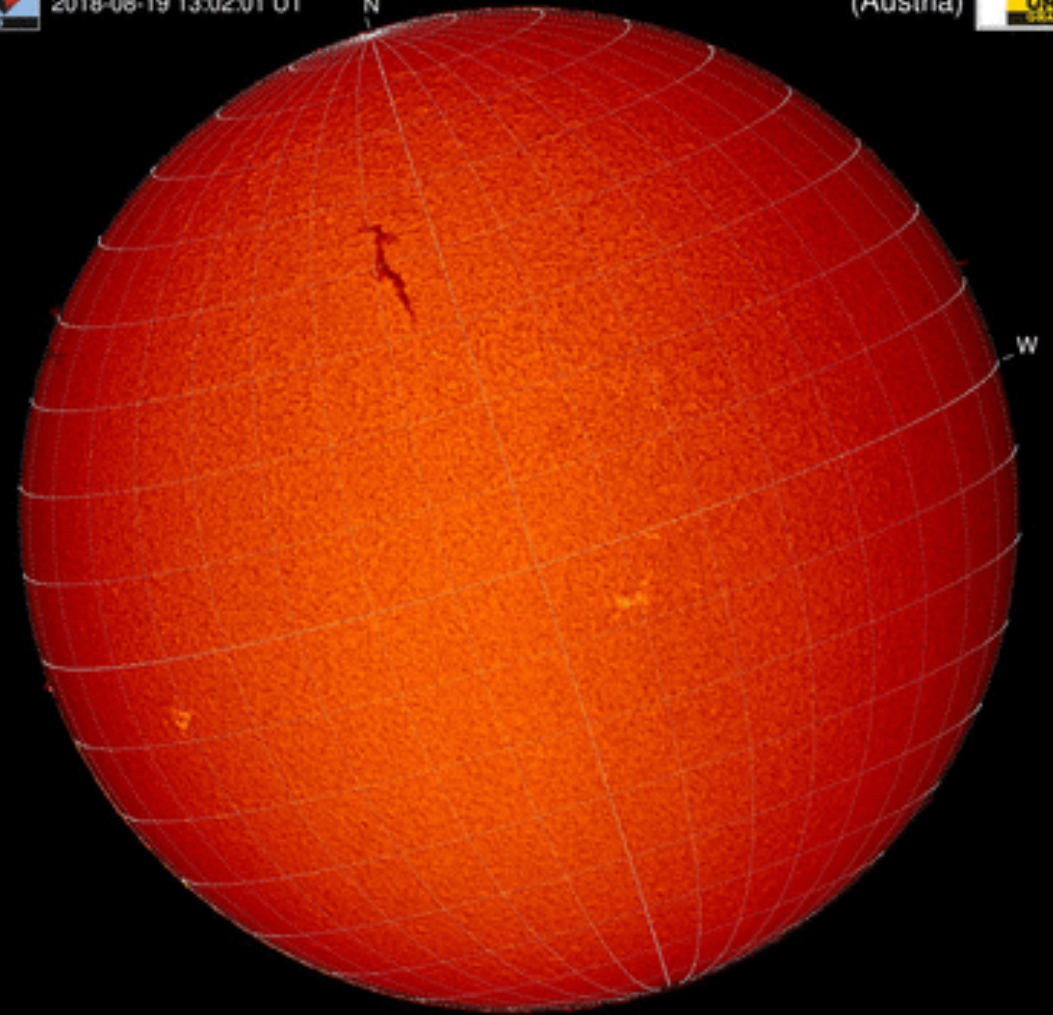


H-alpha 2018-08-19

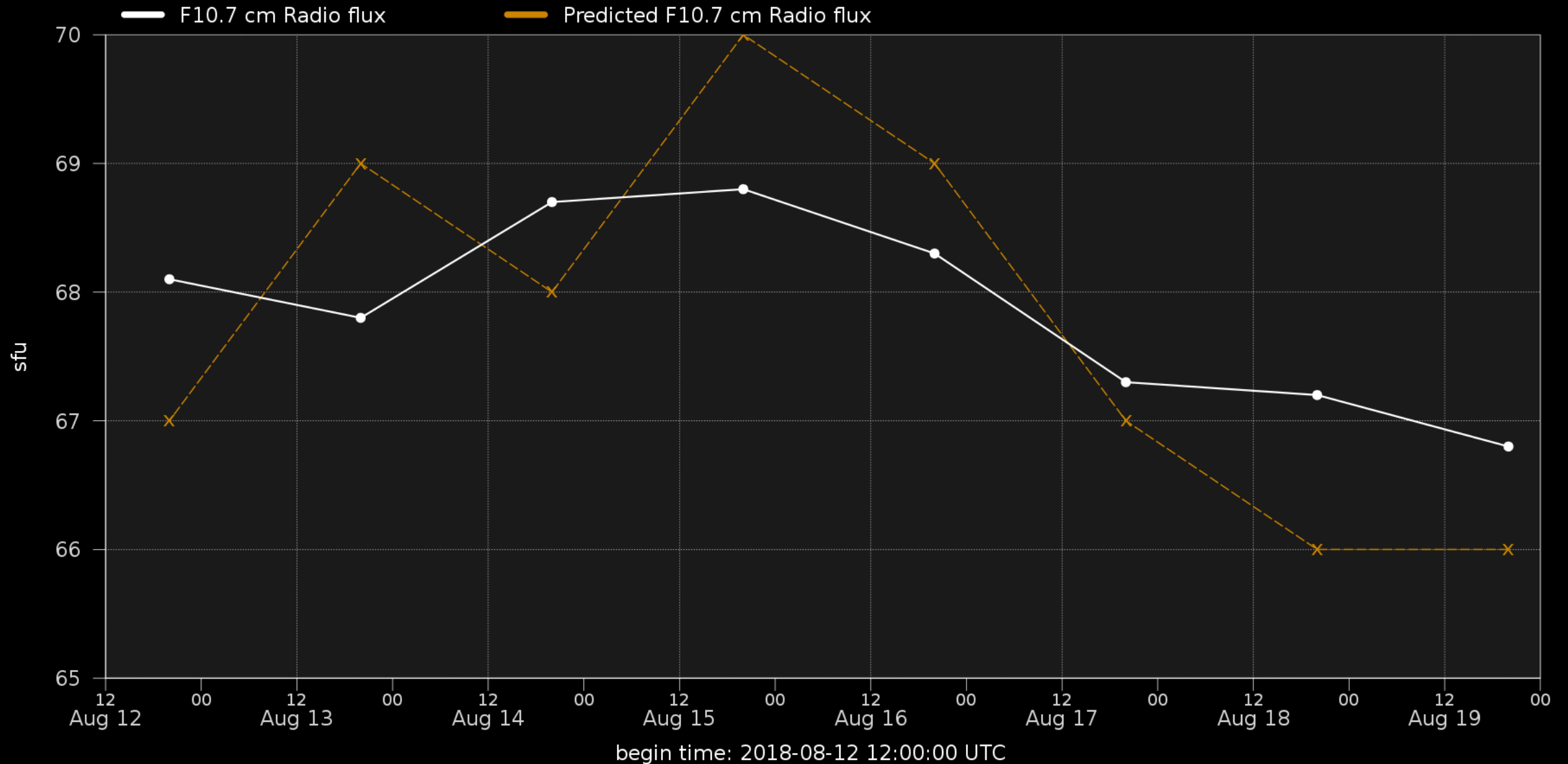


Kanzelhöhe Observatory
2018-08-19 13:02:01 UT

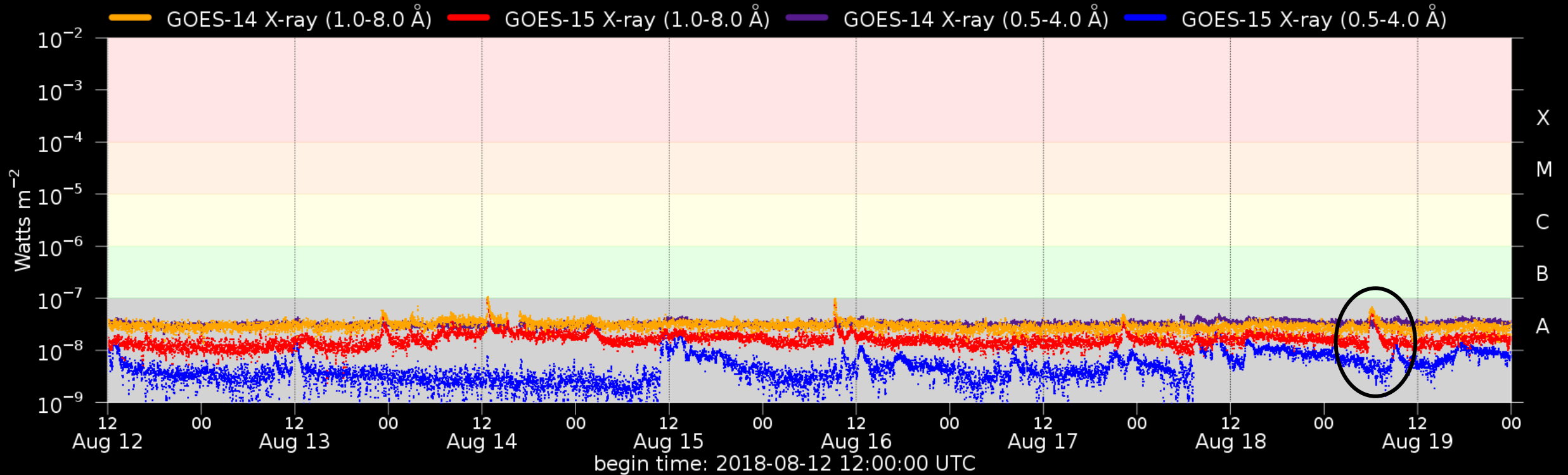
University of Graz
(Austria)



Solar F10.7cm radio flux



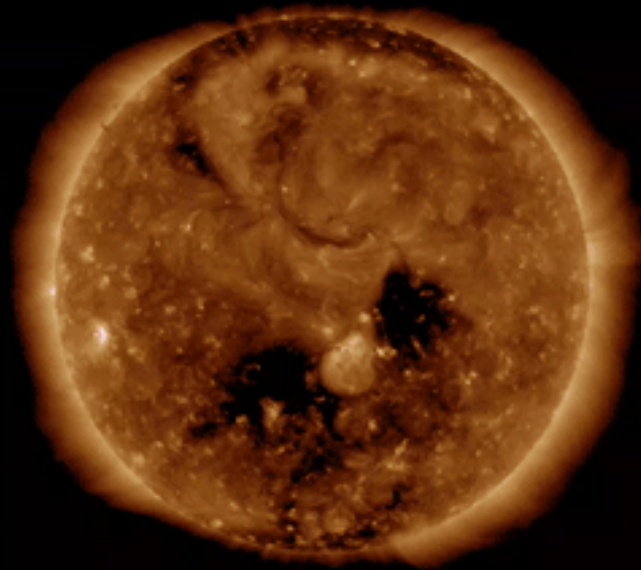
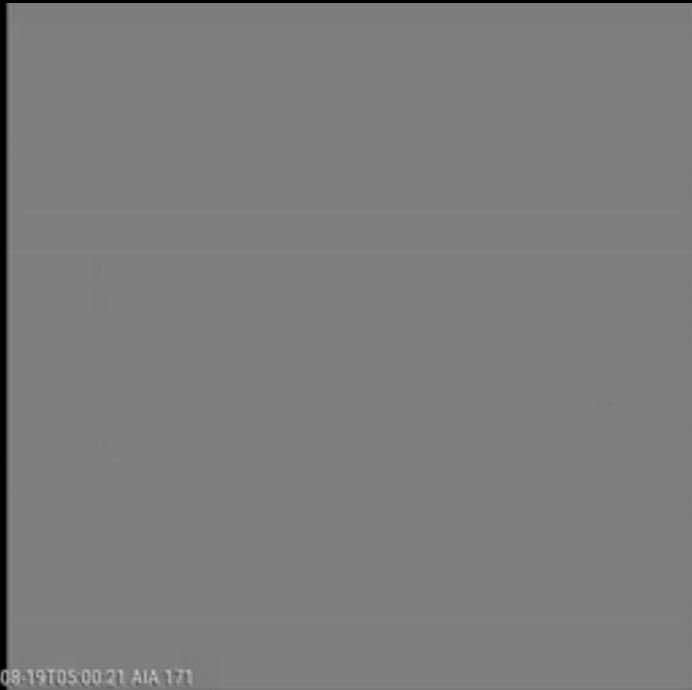
Flaring activity



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

Issue date	2018-08-12	2018-08-13	2018-08-14	2018-08-15	2018-08-16	2018-08-17	2018-08-18	2018-08-19
Probability	--- 05 01 01	--- 01 01 01	--- 01 01 01	--- 15 01 01	--- 10 01 01	--- 10 01 01	--- 05 01 01	--- 40 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

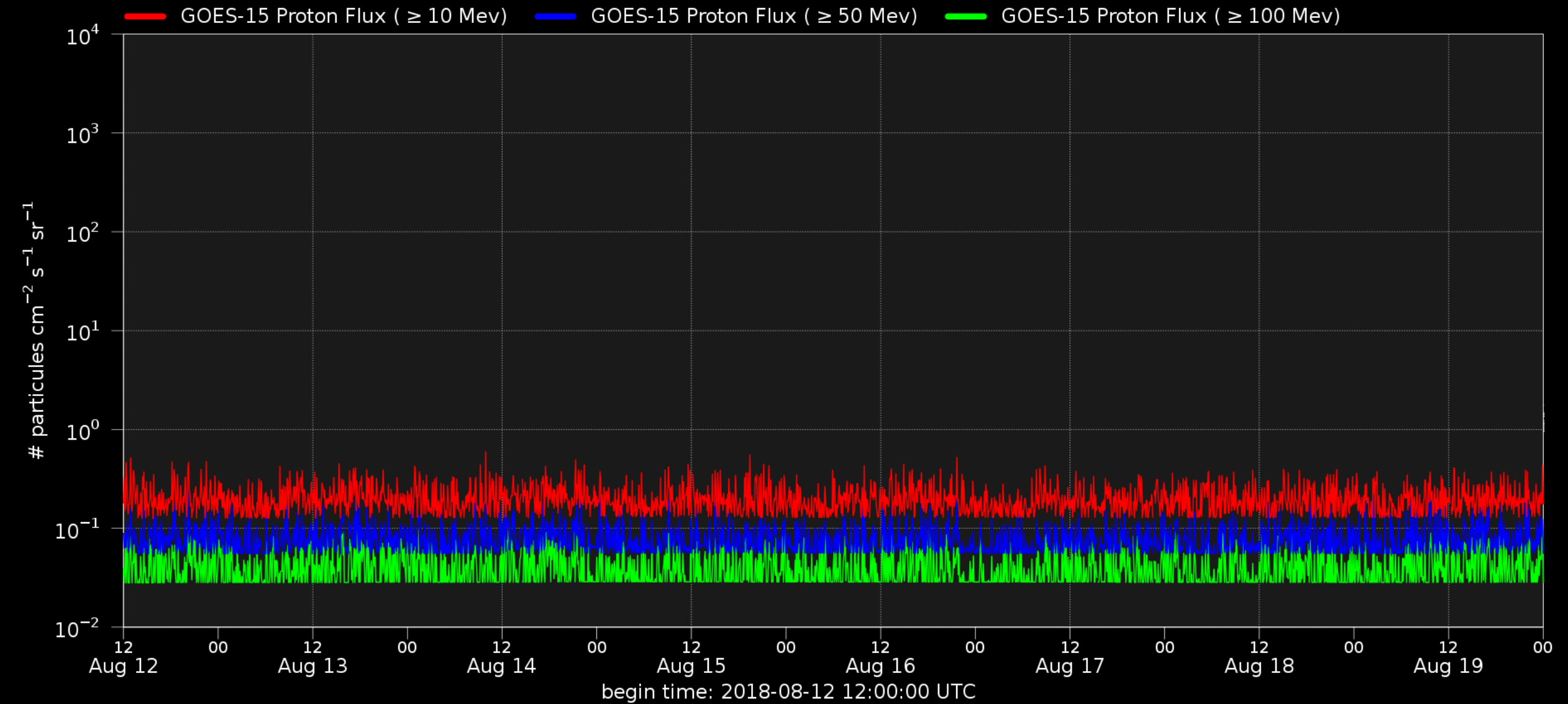


r1



02:48	08/20
21:36	08/19
18:12	08/19
15:16	08/19
11:36	08/19
09:12	08/19
06:12	08/19
03:30	08/19
00:00	08/19
20:36	08/18
17:48	08/18
15:12	08/18
11:48	08/18
08:48	08/18
05:36	08/18
02:36	08/18
23:04	08/17
20:27	08/17
18:01	08/17
15:36	08/17
12:24	08/17
09:24	08/17
05:00	08/17
00:18	08/17
21:12	08/16
18:12	08/16
15:24	08/16
12:00	08/16
09:12	08/16
06:12	08/16
02:48	08/16
23:36	08/15
19:36	08/15
17:00	08/15
13:48	08/15
10:48	08/15
08:00	08/15
05:12	08/15
02:06	08/15
22:36	08/14
19:48	08/14
17:12	08/14
14:12	08/14
11:12	08/14
08:24	08/14
06:00	08/14
03:12	08/14
00:00	08/14

Solar proton flux

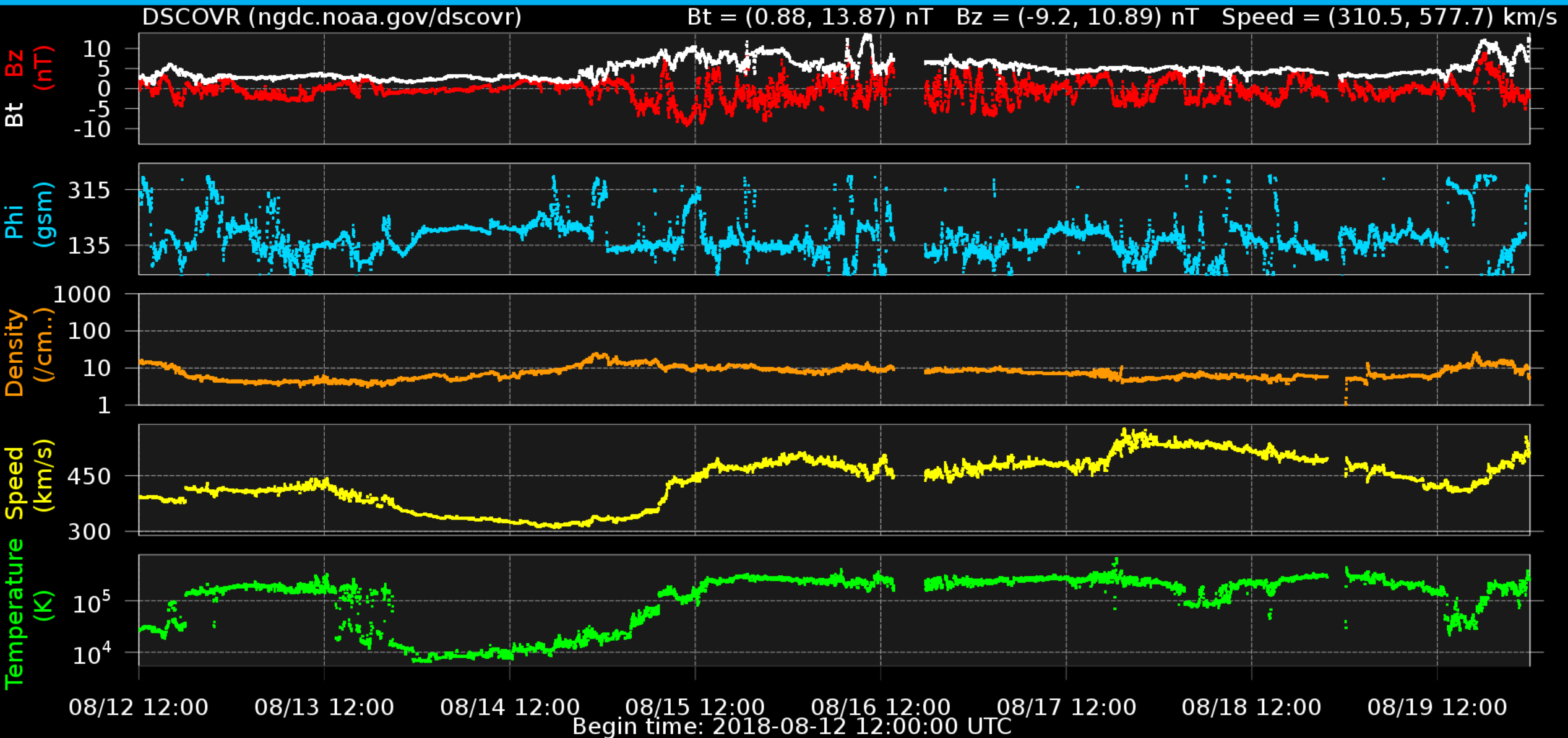


Solar Wind and Geomagnetic Activity

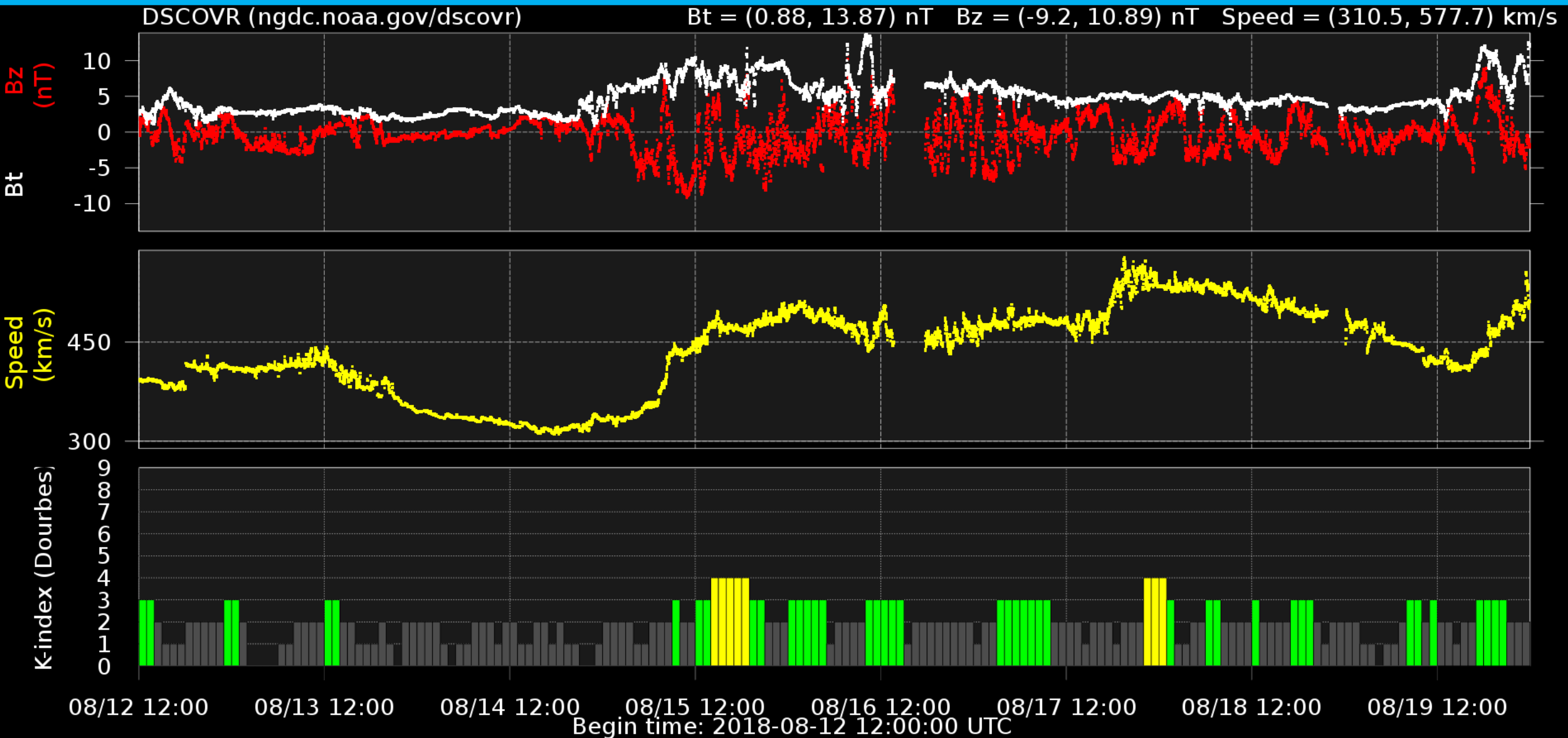


Solar Influences
Data analysis Centre
www.sidc.be

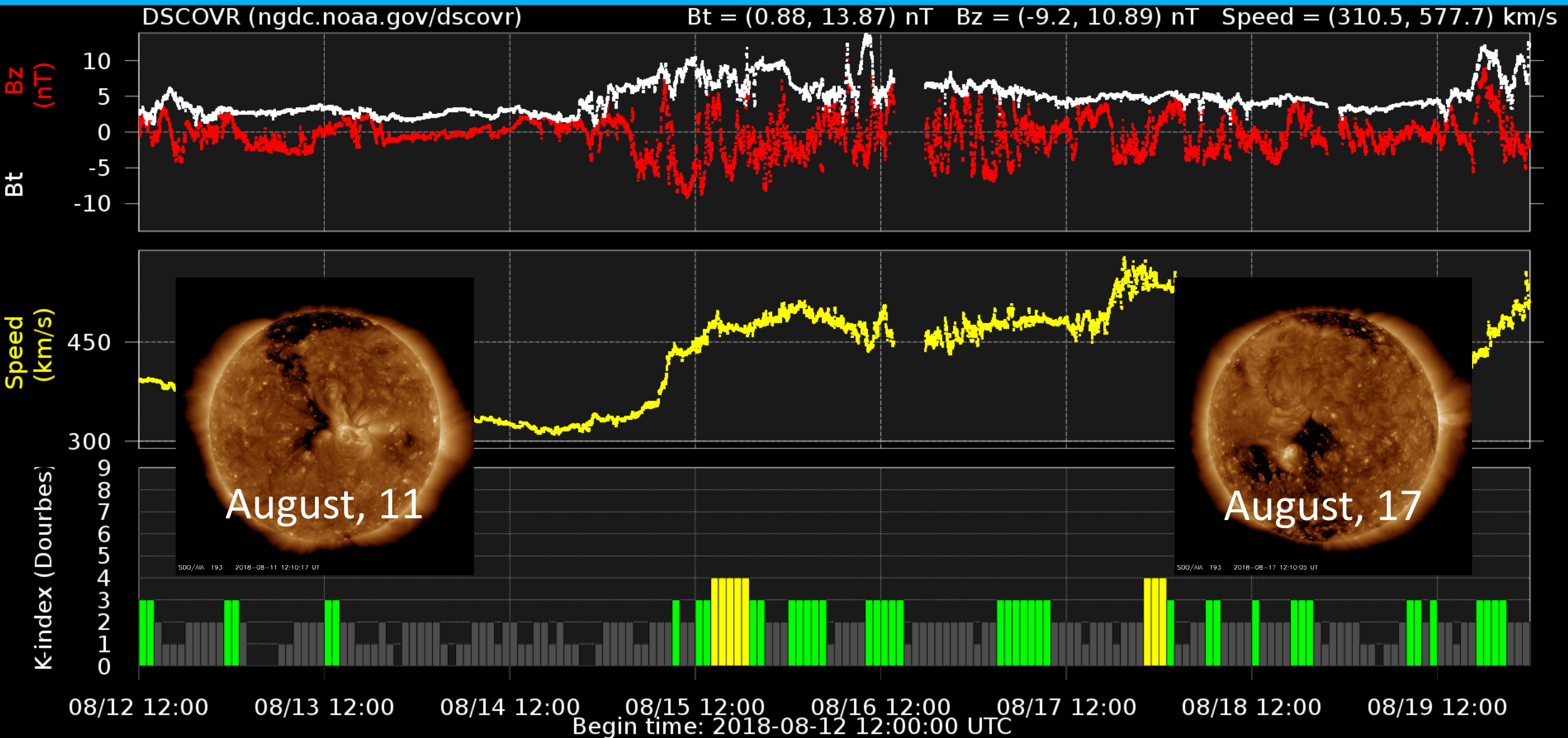
Solar wind parameters (DSCOVR data)



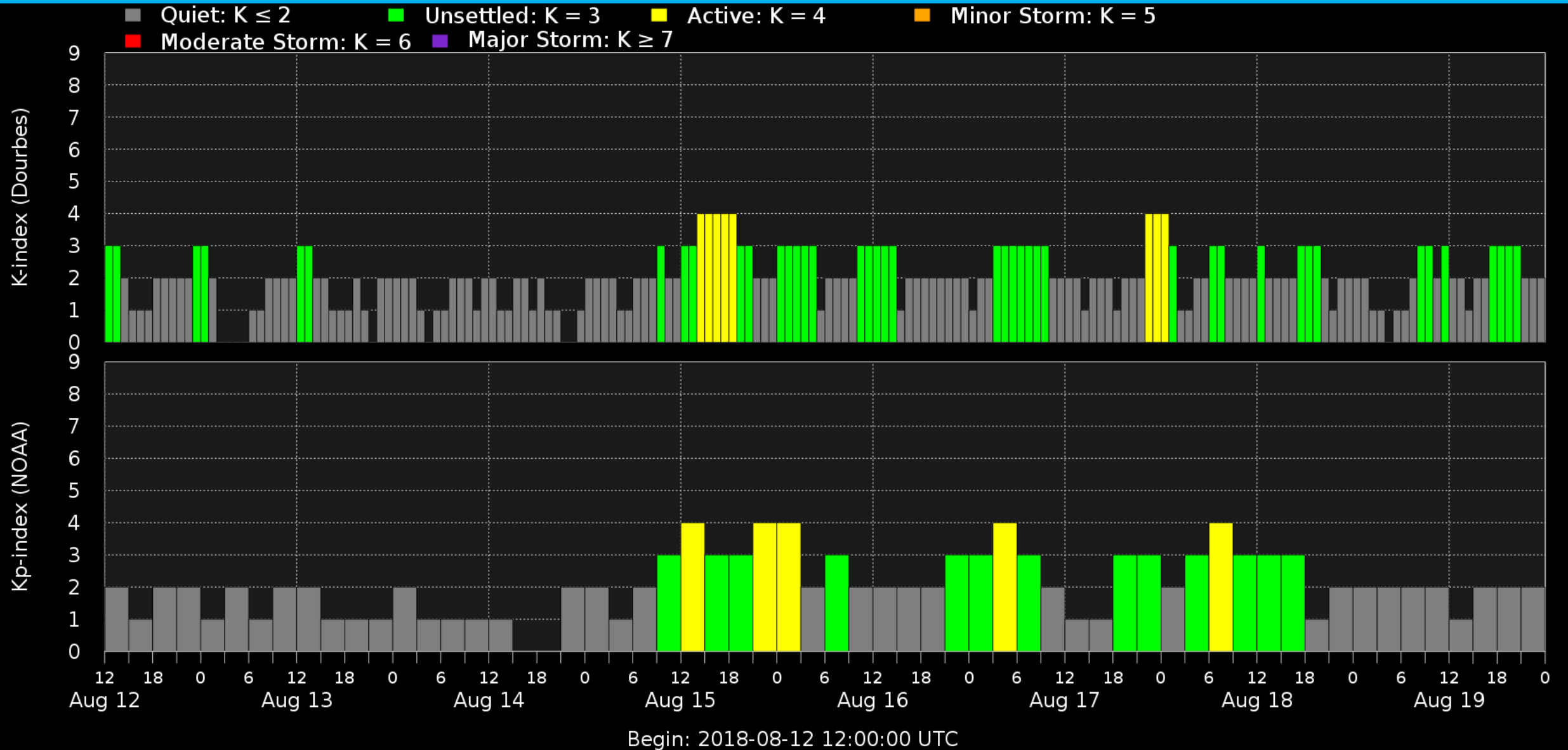
Solar wind parameters & K-index (DSCOVR/Dourbes)



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



Geomagnetic activity (K-indexes)



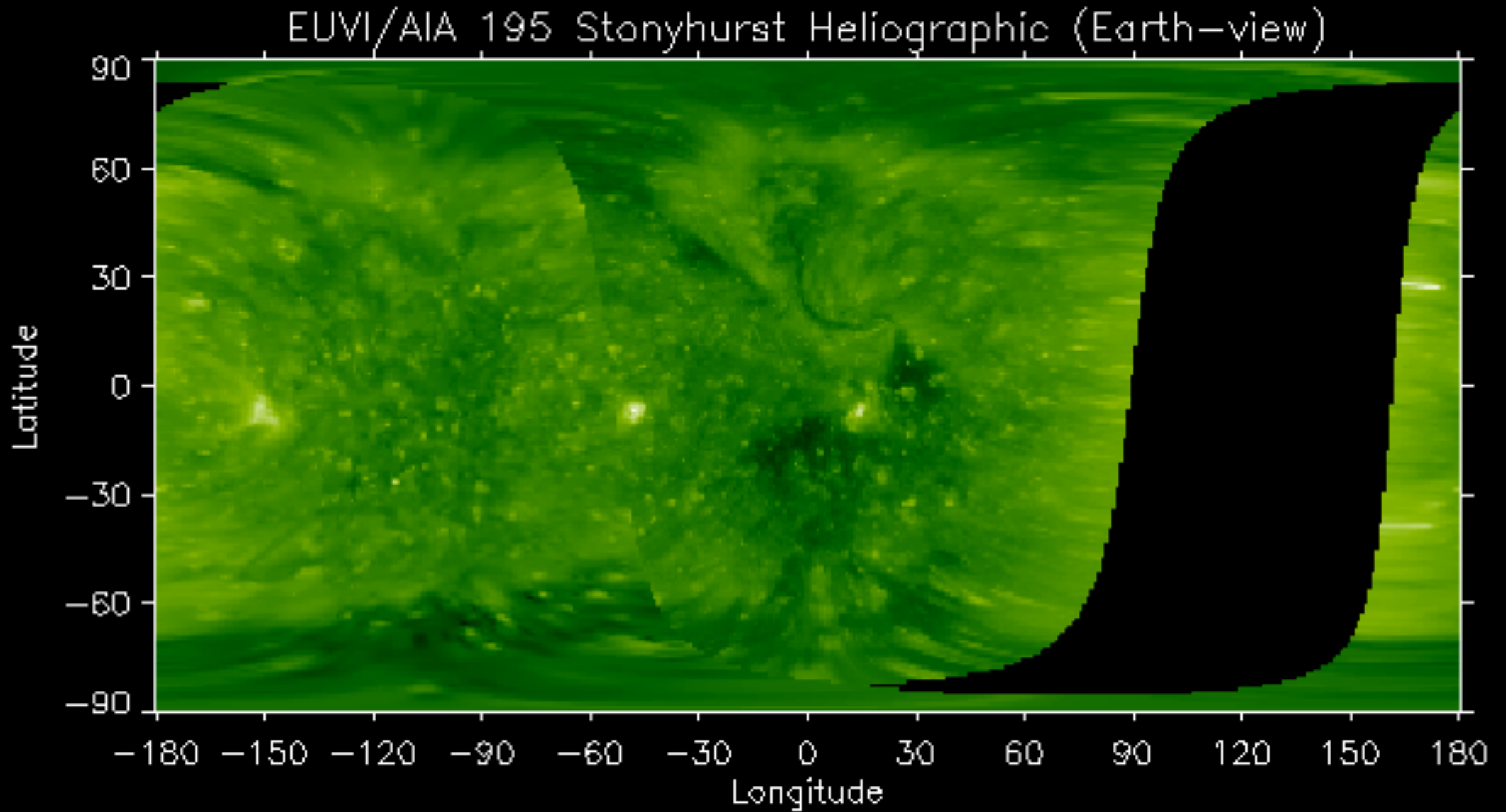
Outlook



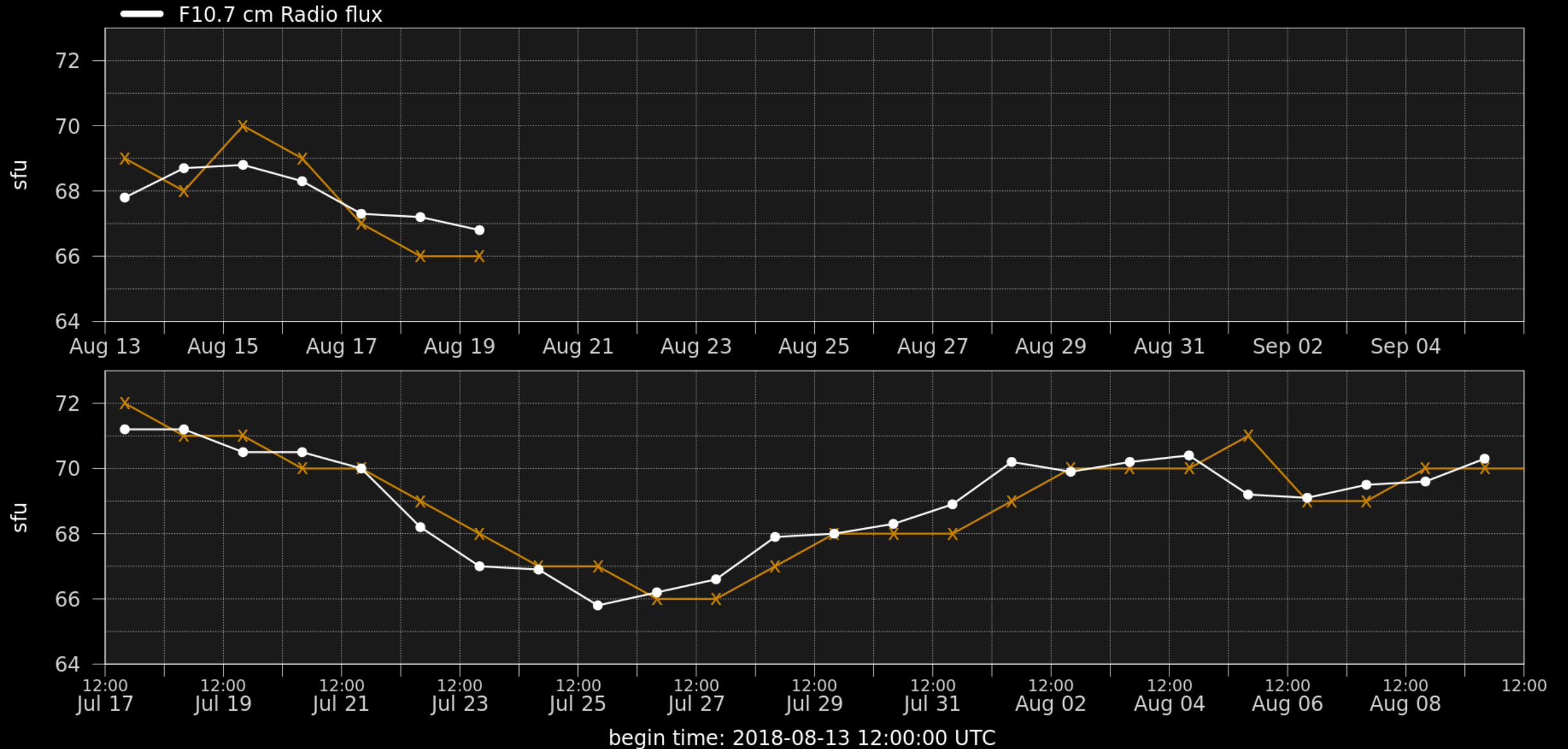
Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

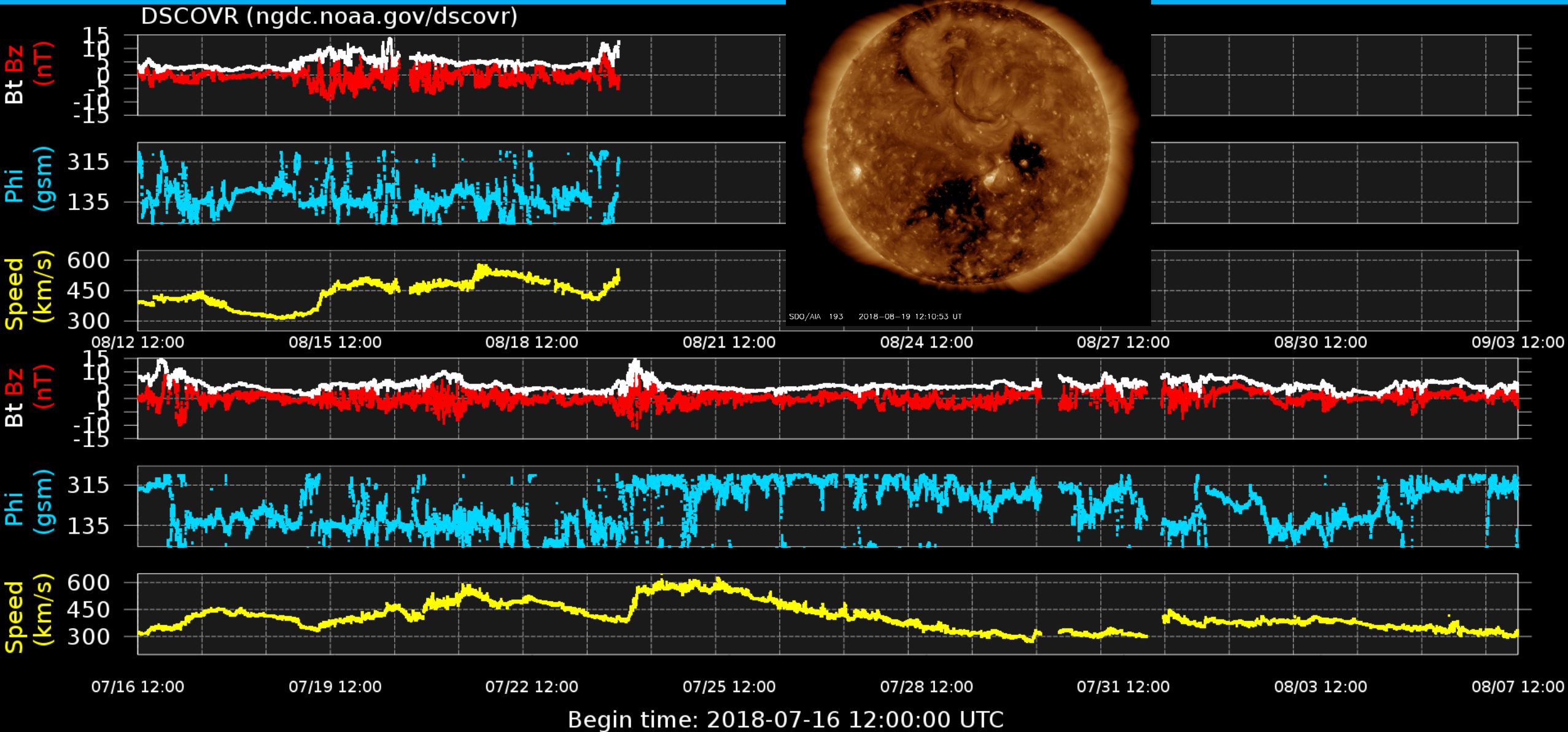
Outlook: Solar activity



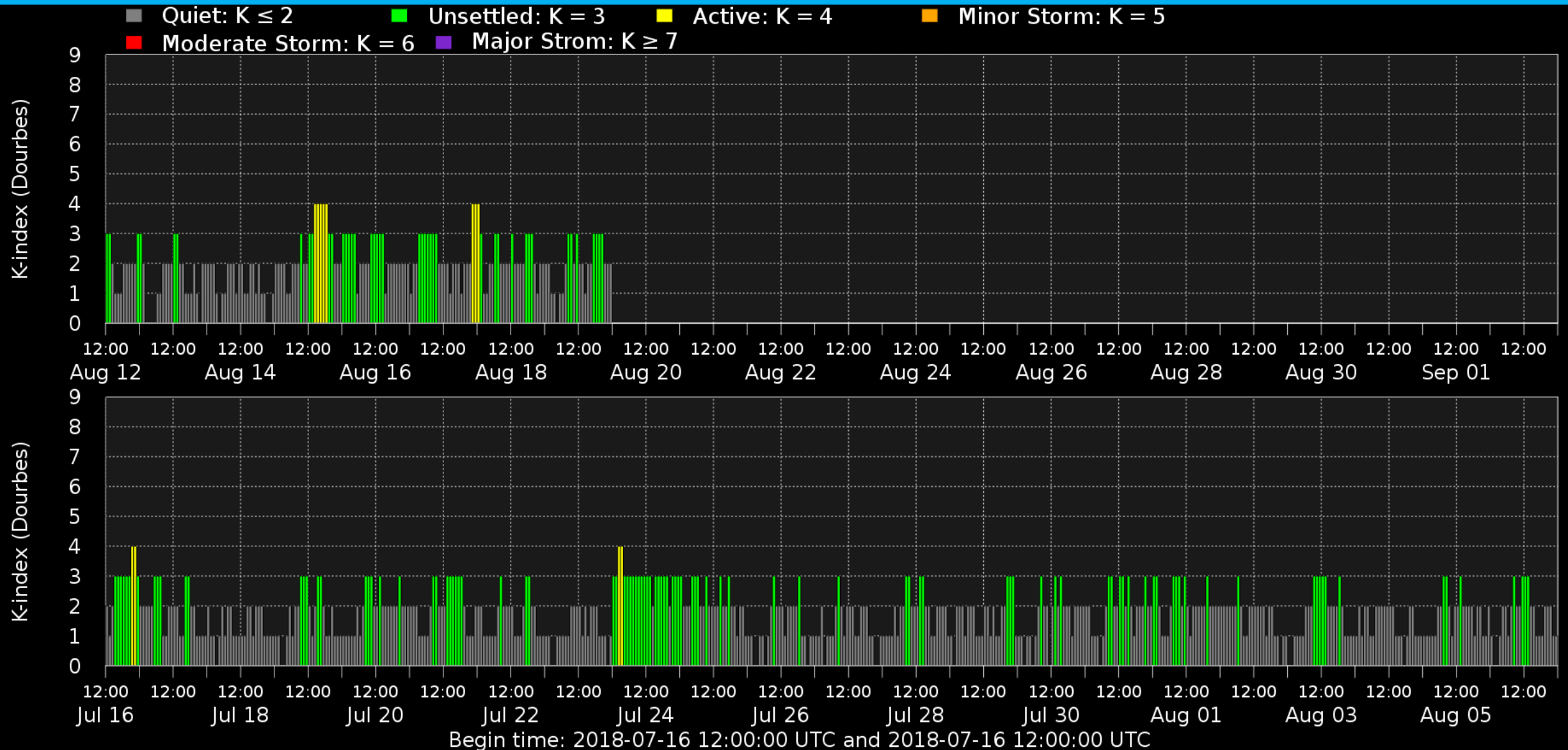
F10.7



Outlook: Solar wind



Outlook: Geomagnetic activity



SIDC Space Weather Briefing

See you at our next briefing!

Or visit us at www.sidc.be



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be