

SIDC Space Weather Briefing

14 October 2018 - 21 October 2018

Luciano Rodriguez
& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2018-10-14 12:00 UT to 2018-10-21 12:00 UT

Active regions	NOAA ARs 2724 and 2725
Flaring	No flares
CMEs	No Earth directed CMEs
Proton Events	None

Solar wind and geomagnetic conditions from 2018-10-14 12:00 UT to 2018-10-21 12:00 UT

Coronal Holes	2 coronal holes
ICME	None
SW Conditions	1 HSS, 1 weak effect from a HSS
K-indices	max K-index (Dourbes): 4.0 max Kp-index (NOAA): 3

All Quiet Alert: Active since October 16

Solar Activity

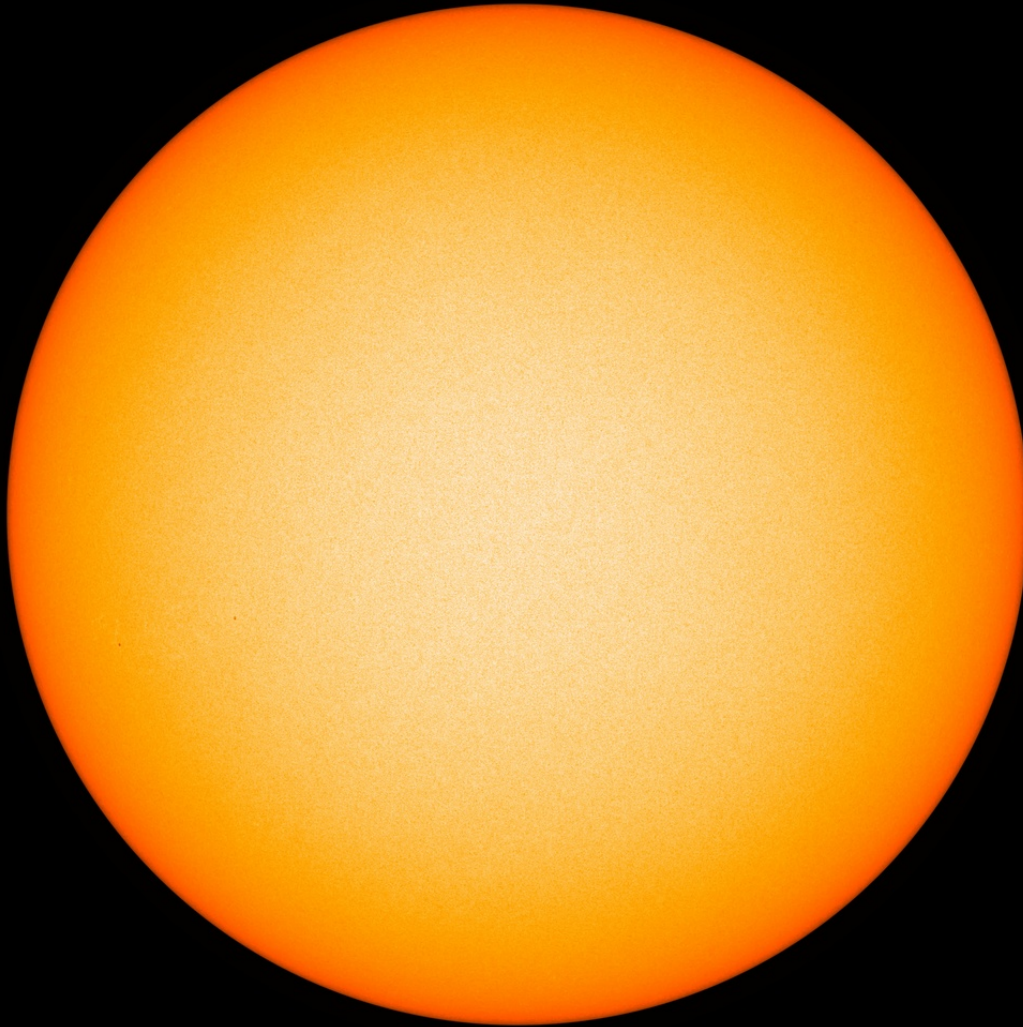


Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

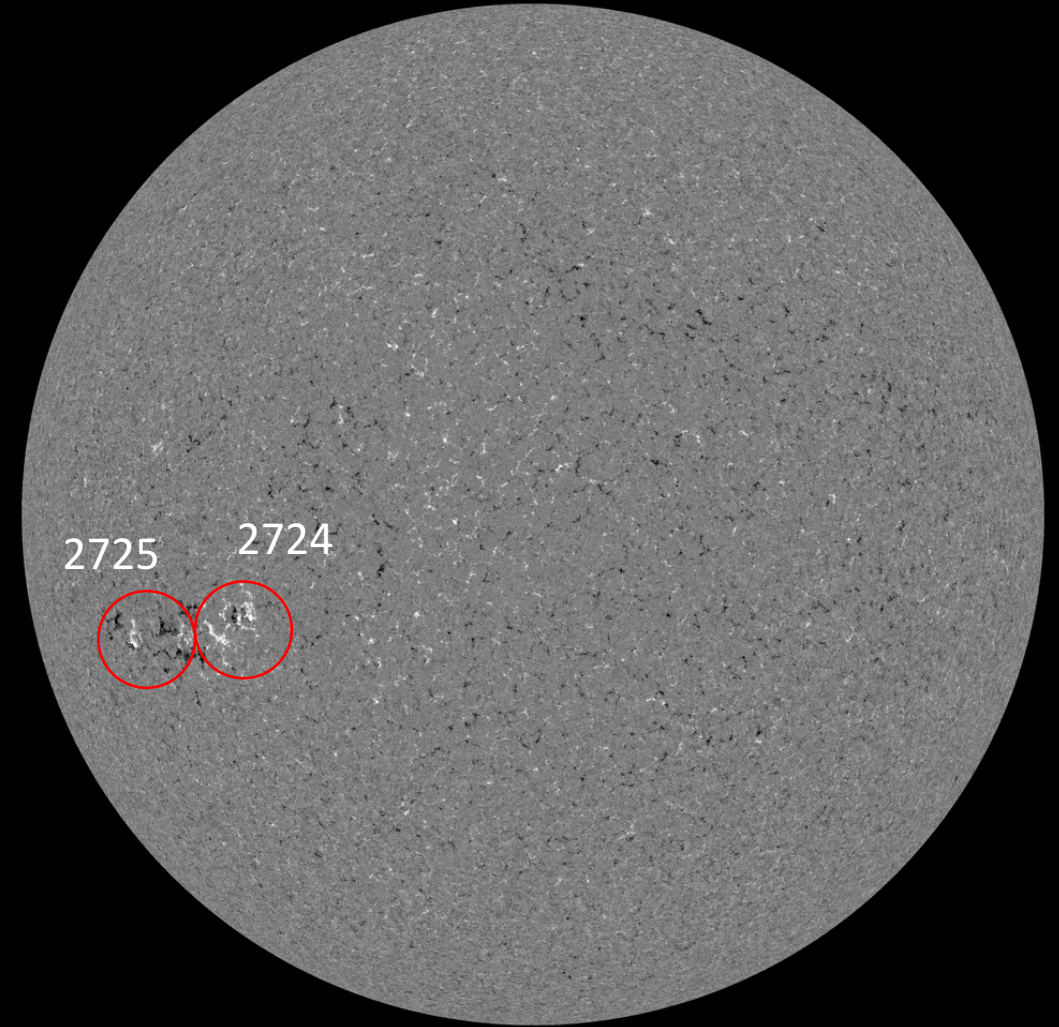
Solar active region - start of the week

SDO/HMI White Light 2018-10-14



SDO/HMI Quick-Look Continuum: 20181014_114500

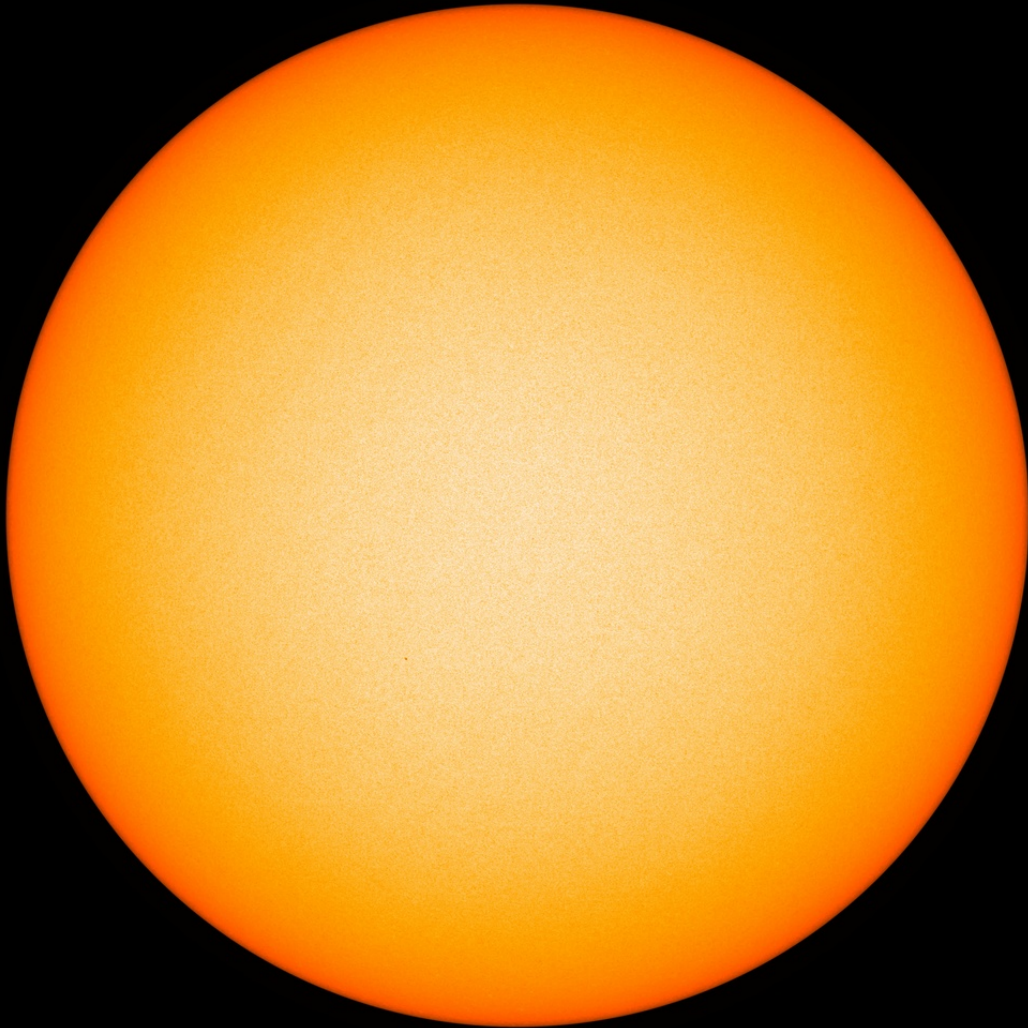
SDO/HMI Magnetogram 2018-10-14



SDO/HMI Quick-Look Magnetogram: 20181014_114500

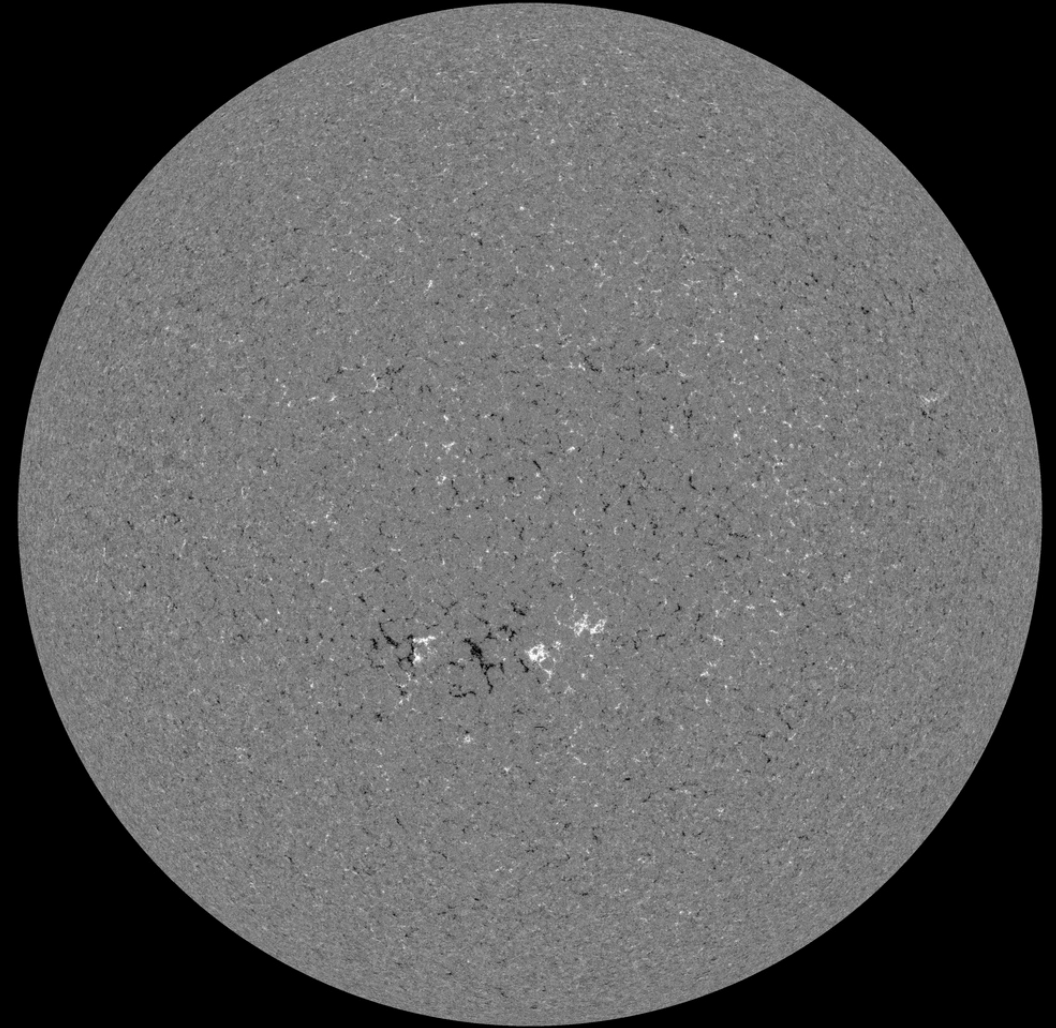
Solar active region - middle of the week

SDO/HMI White Light 2018-10-17



SDO/HMI Quick-Look Continuum: 20181017_114500

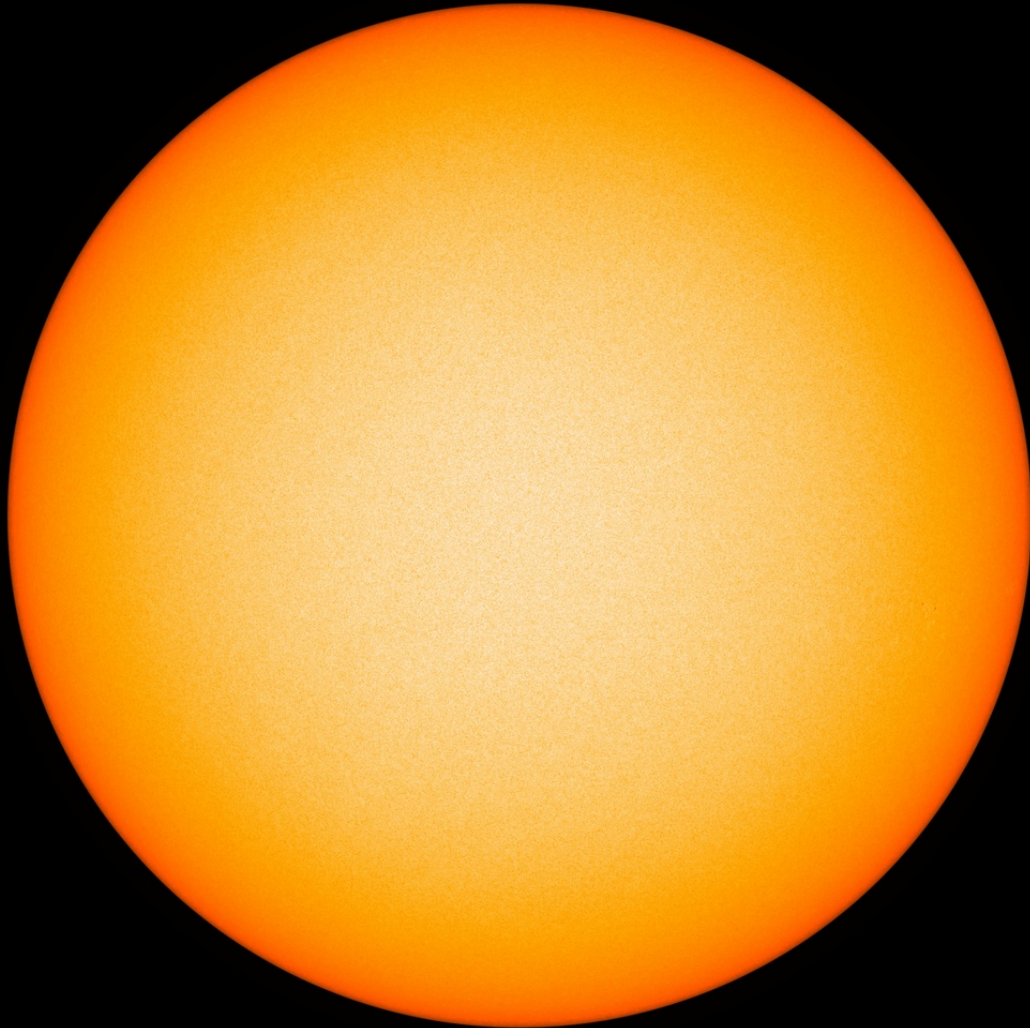
SDO/HMI Magnetogram 2018-10-17



SDO/HMI Quick-Look Magnetogram: 20181017_114500

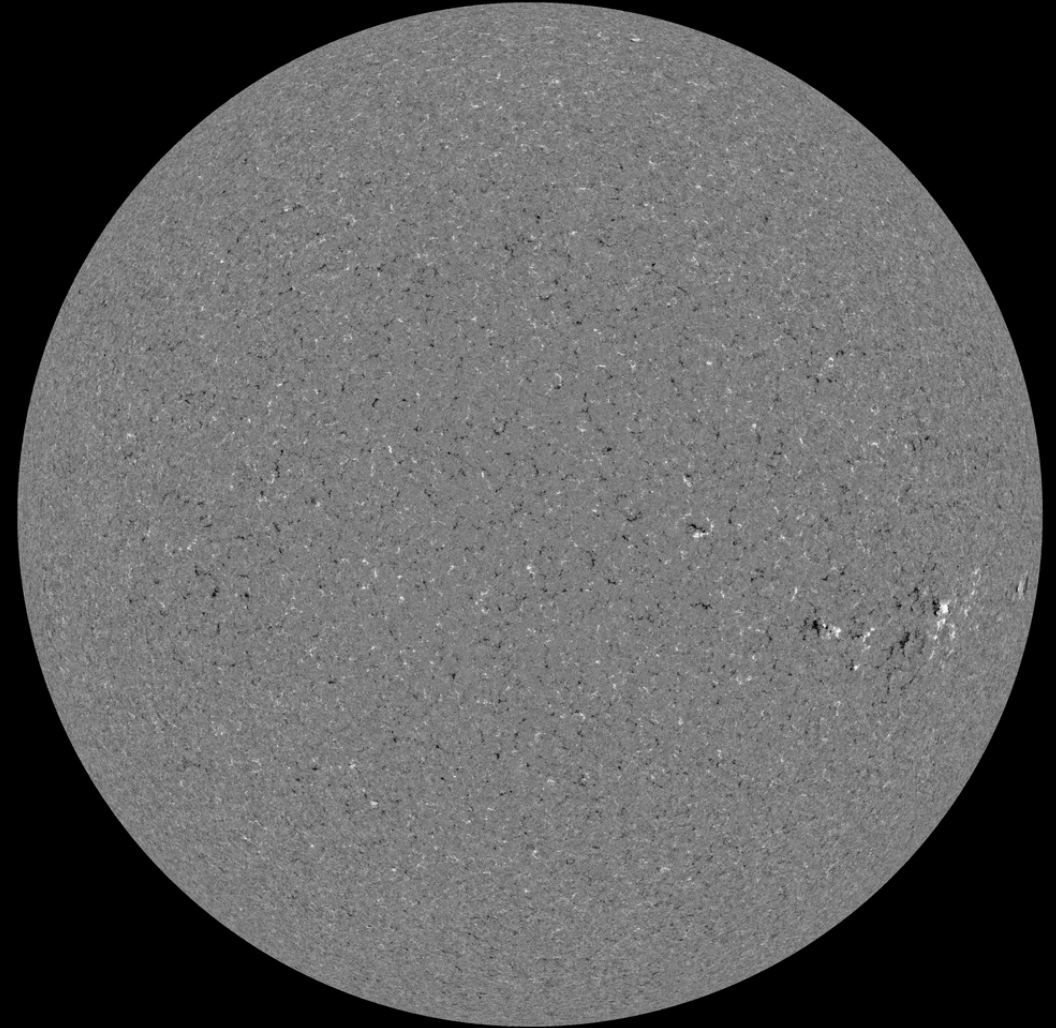
Solar active region - end of the week

SDO/HMI White Light 2018-10-21



SDO/HMI Quick-Look Continuum: 20181021_114500

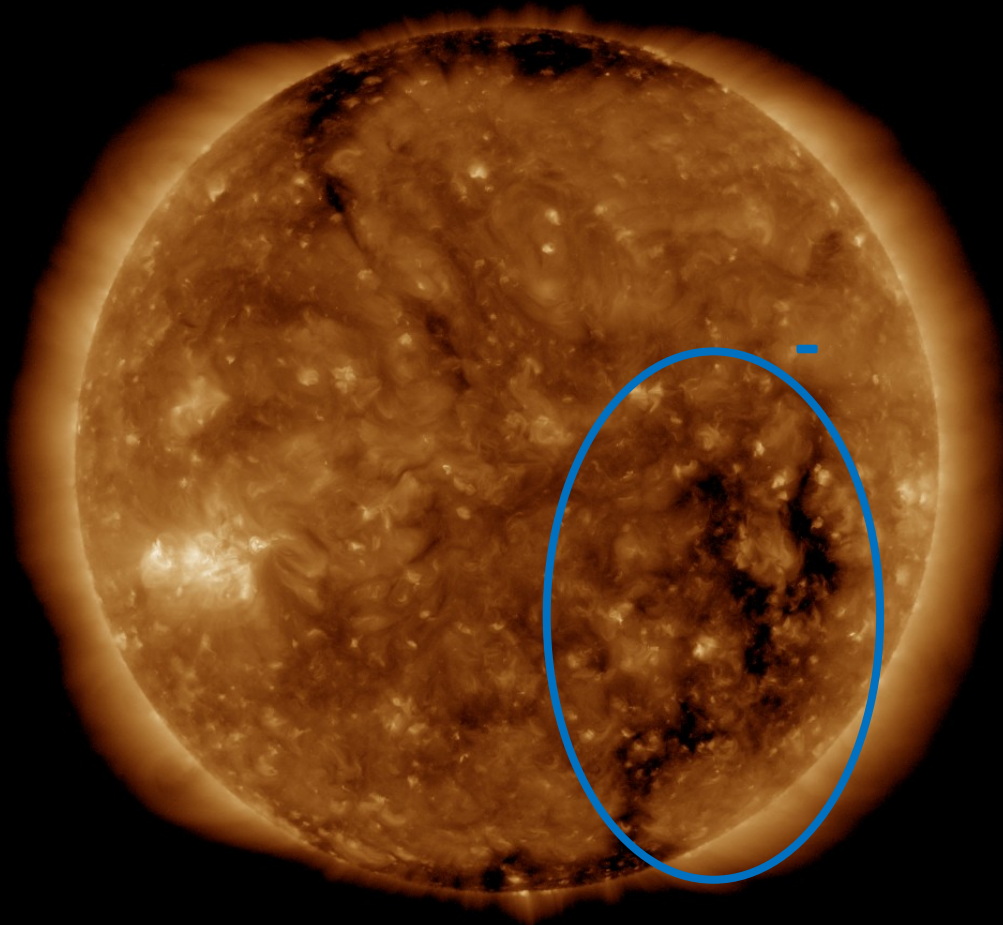
SDO/HMI Magnetogram 2018-10-21



SDO/HMI Quick-Look Magnetogram: 20181021_114500

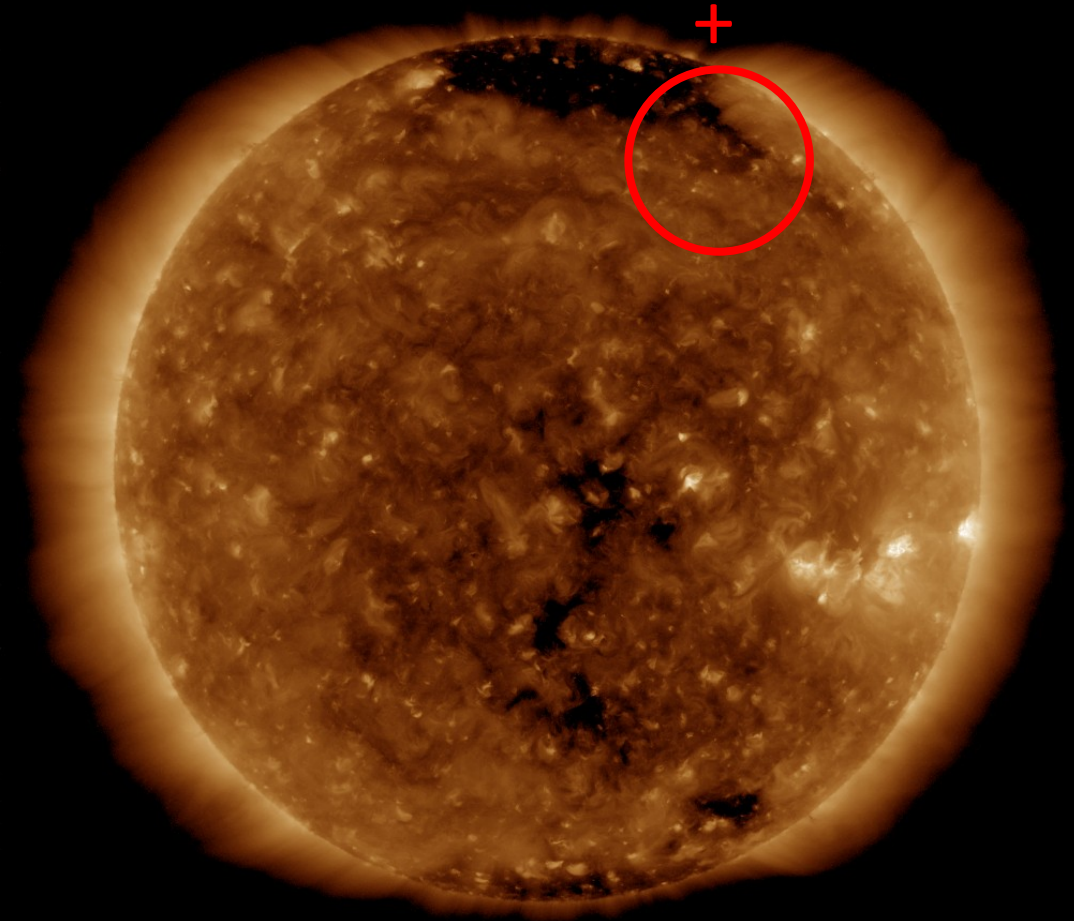
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2018-10-14



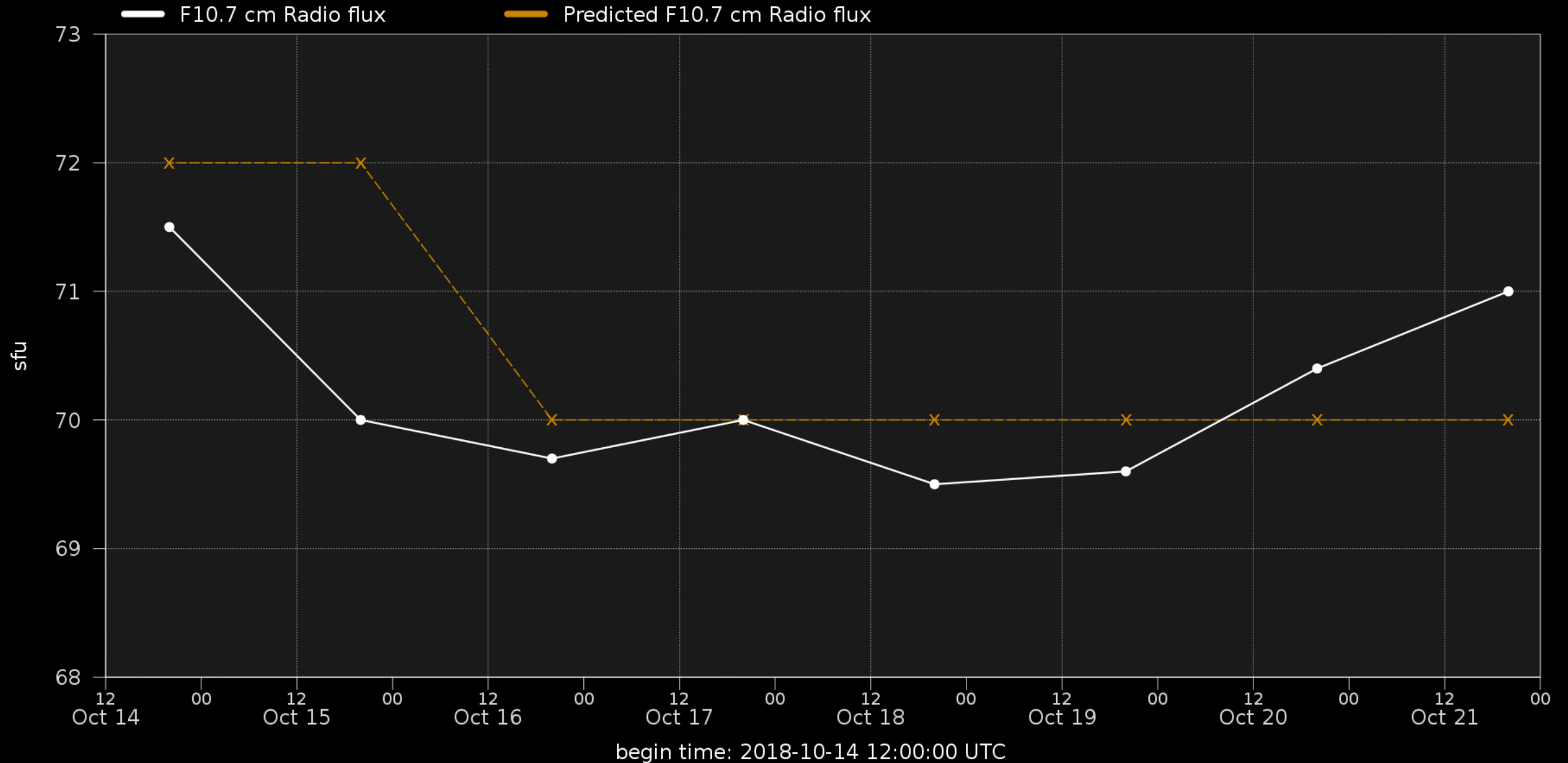
SDO/AIA 193 2018-10-14 12:11:29 UT

SDO/AIA 19.3 nm 2018-10-21

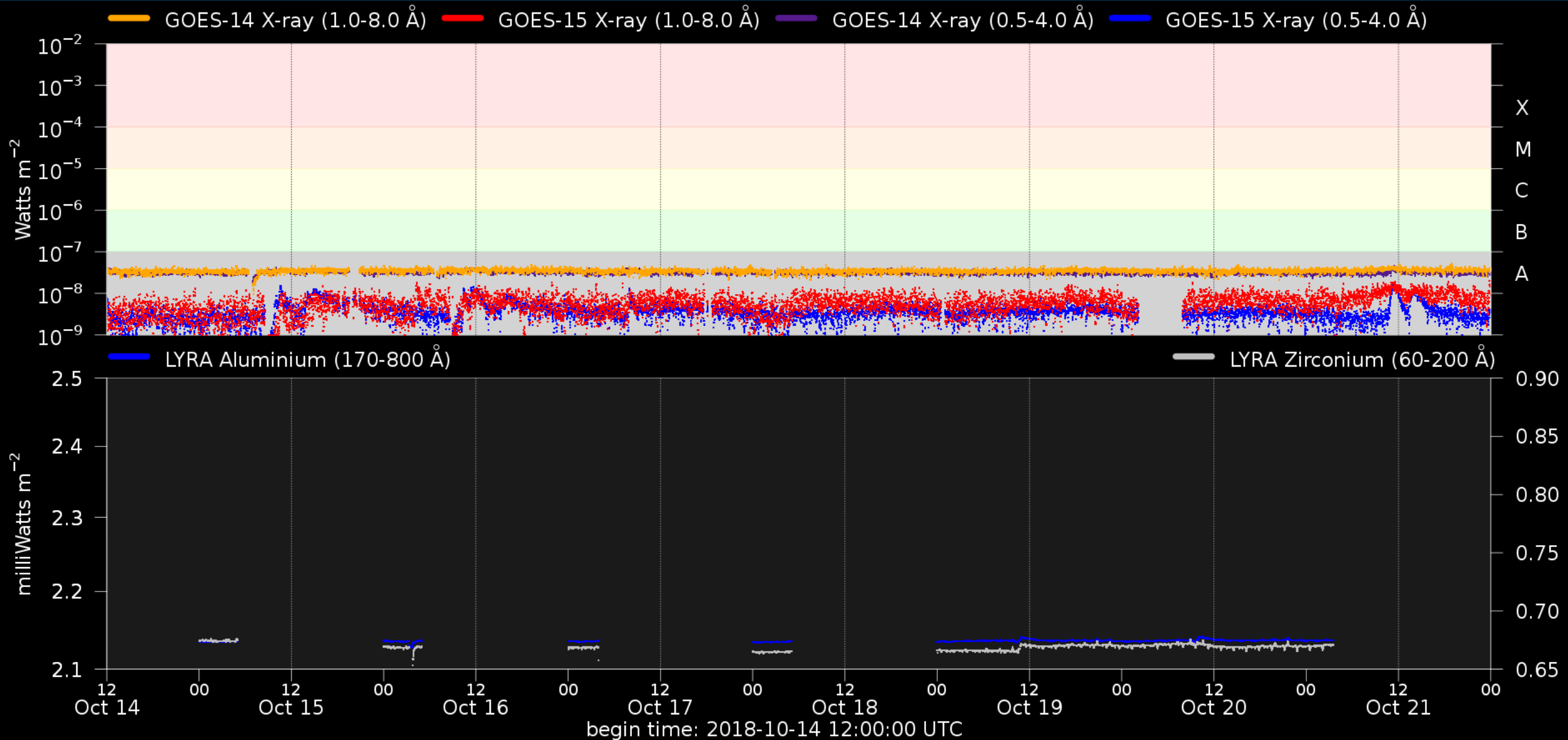


SDO/AIA 193 2018-10-21 12:09:53 UT

Solar F10.7cm radio flux



Solar X-Ray and UV flux

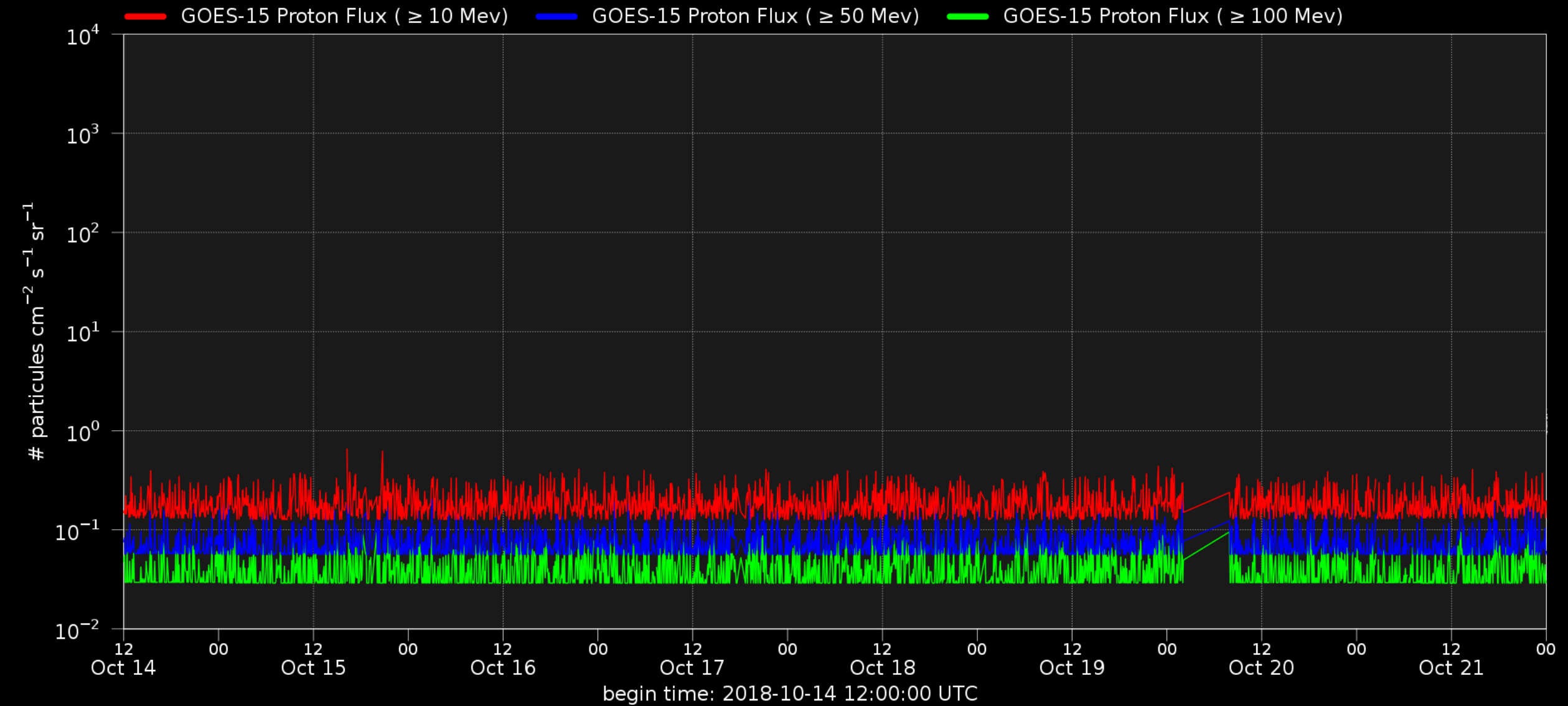


Coronal Mass Ejection



22:24	10/20
19:48	10/20
16:48	10/20
13:48	10/20
10:24	10/20
07:36	10/20
04:48	10/20
01:48	10/20
22:12	10/19
19:24	10/19
16:36	10/19
13:48	10/19
10:36	10/19
06:36	10/19
02:48	10/19
22:36	10/18
19:24	10/18
16:30	10/18
12:36	10/18
09:48	10/18
07:12	10/18
04:36	10/18
01:48	10/18
22:00	10/17
19:00	10/17
16:24	10/17
12:48	10/17
10:00	10/17
06:54	10/17
04:36	10/17
01:25	10/17
21:48	10/16
18:36	10/16
15:48	10/16
12:00	10/16
09:12	10/16
06:06	10/16
03:30	10/16
00:06	10/16
20:12	10/15
17:29	10/15
14:30	10/15
11:36	10/15
08:24	10/15
05:48	10/15

Solar proton flux



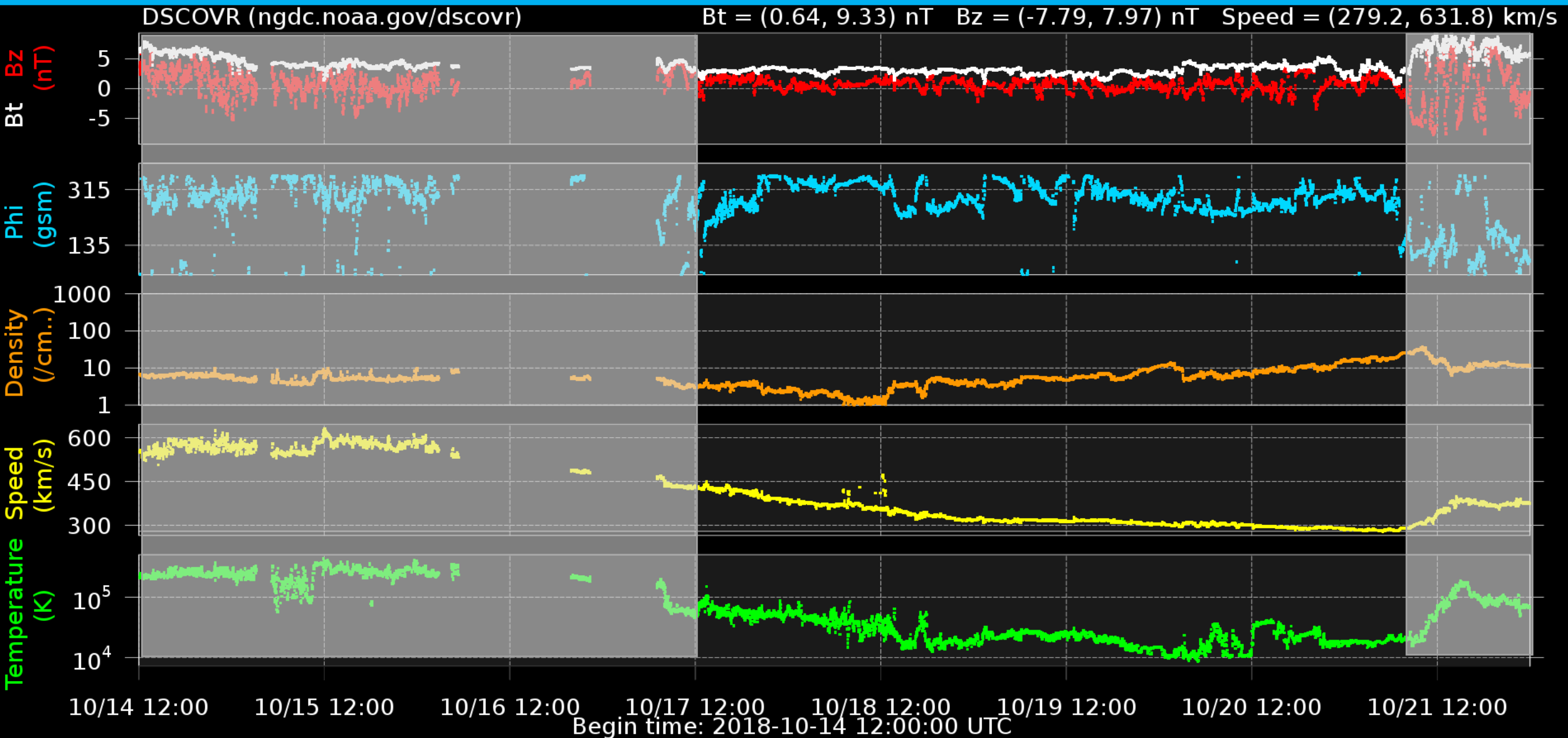
Solar Wind and Geomagnetic Activity



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

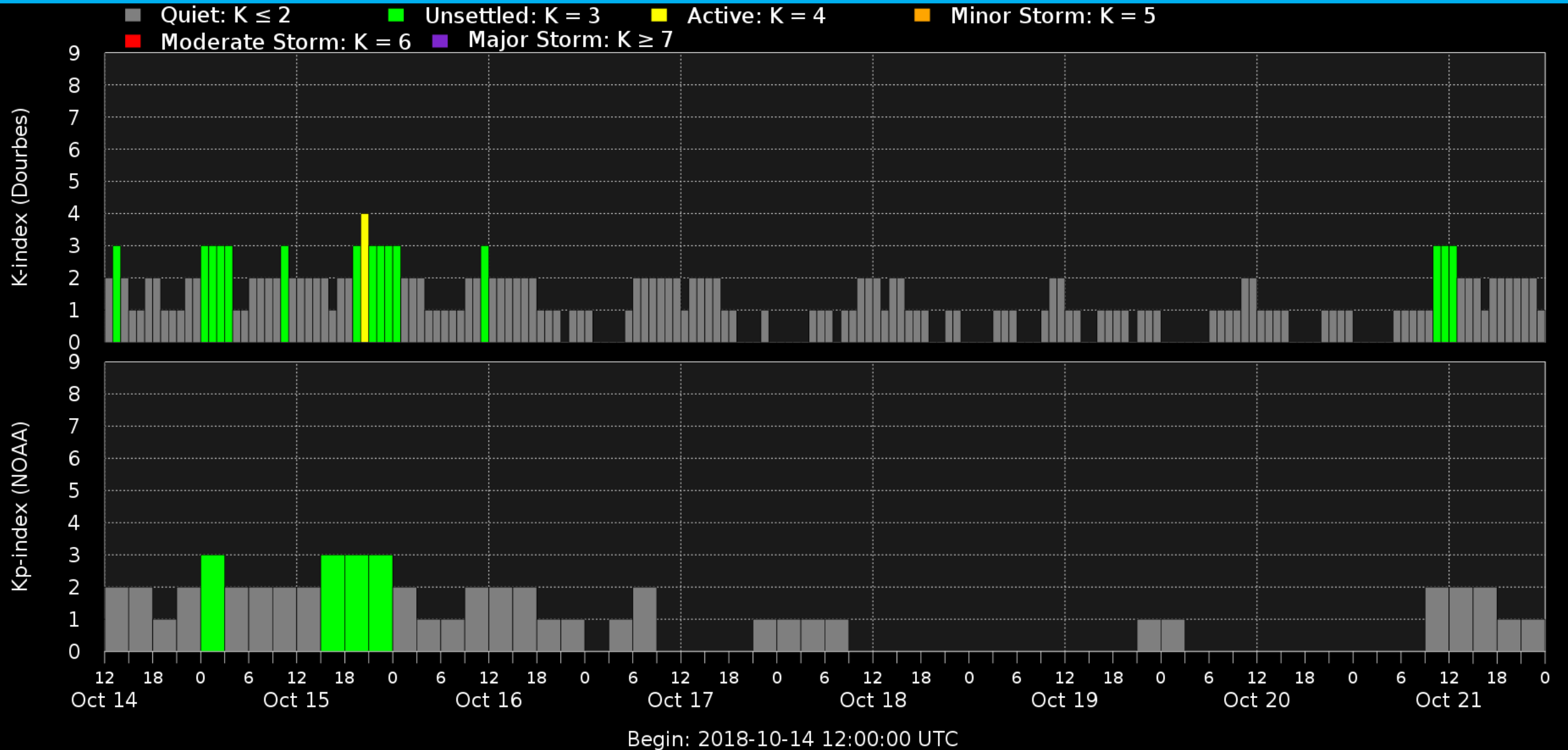
Solar wind parameters (DSCOVR data)



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



Geomagnetic activity (K-indexes)



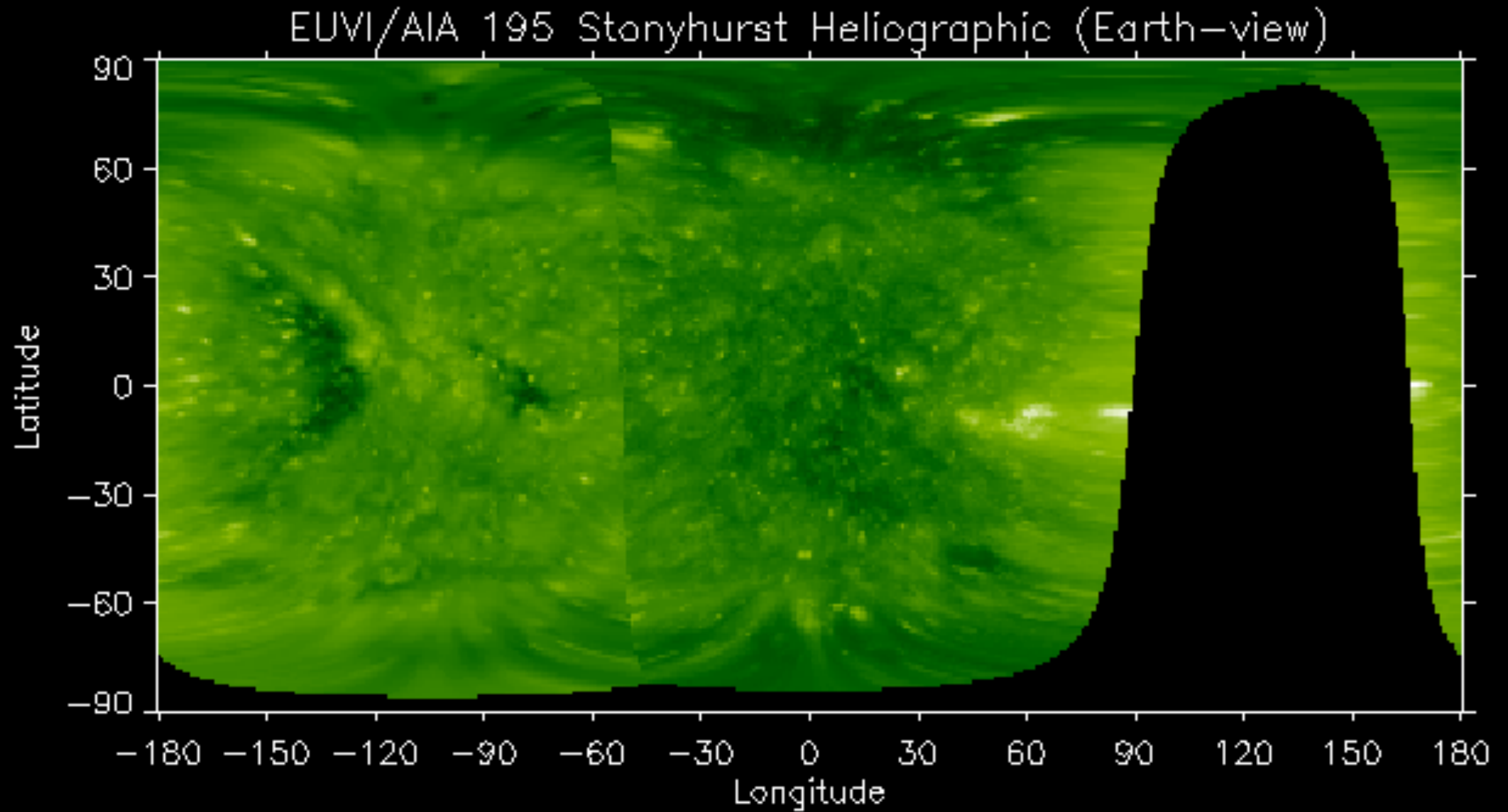
Outlook



Royal Observatory
of Belgium

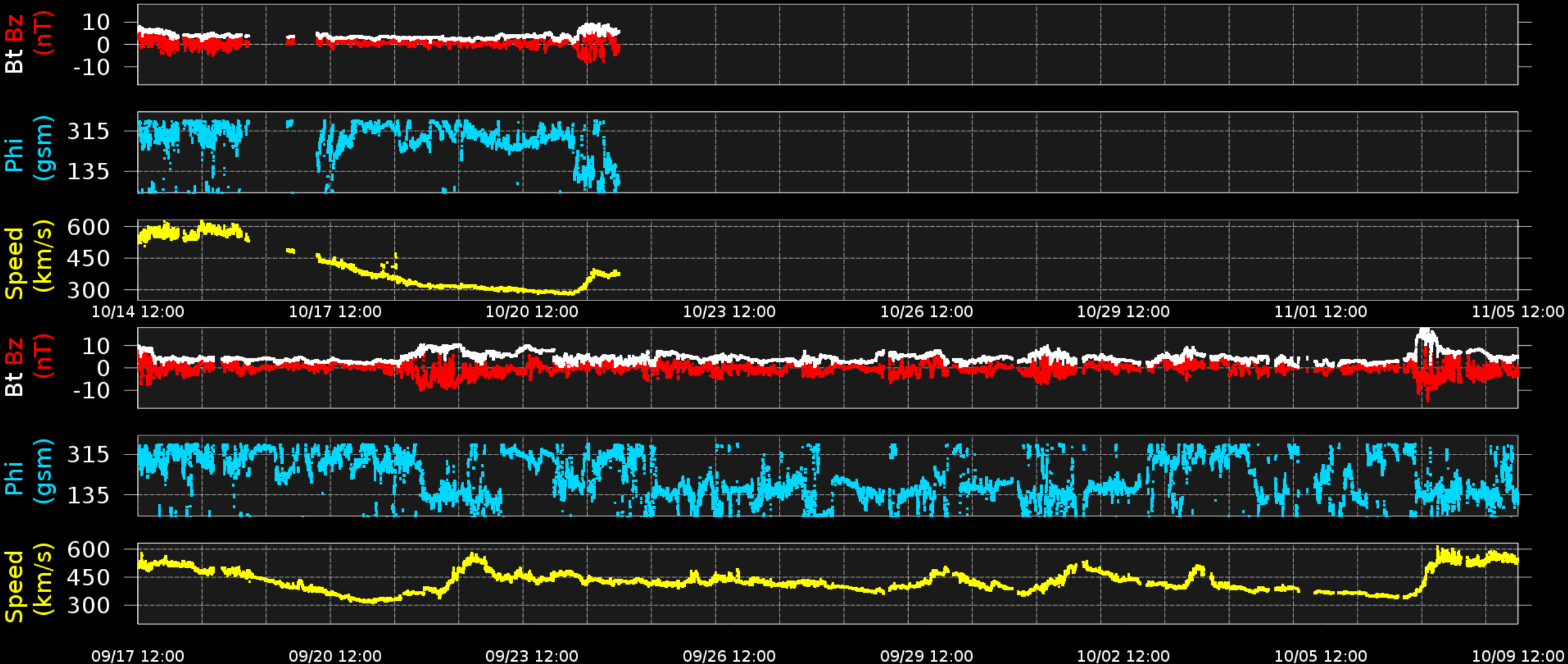
Solar Influences
Data analysis Centre
www.sidc.be

Outlook: Solar activity



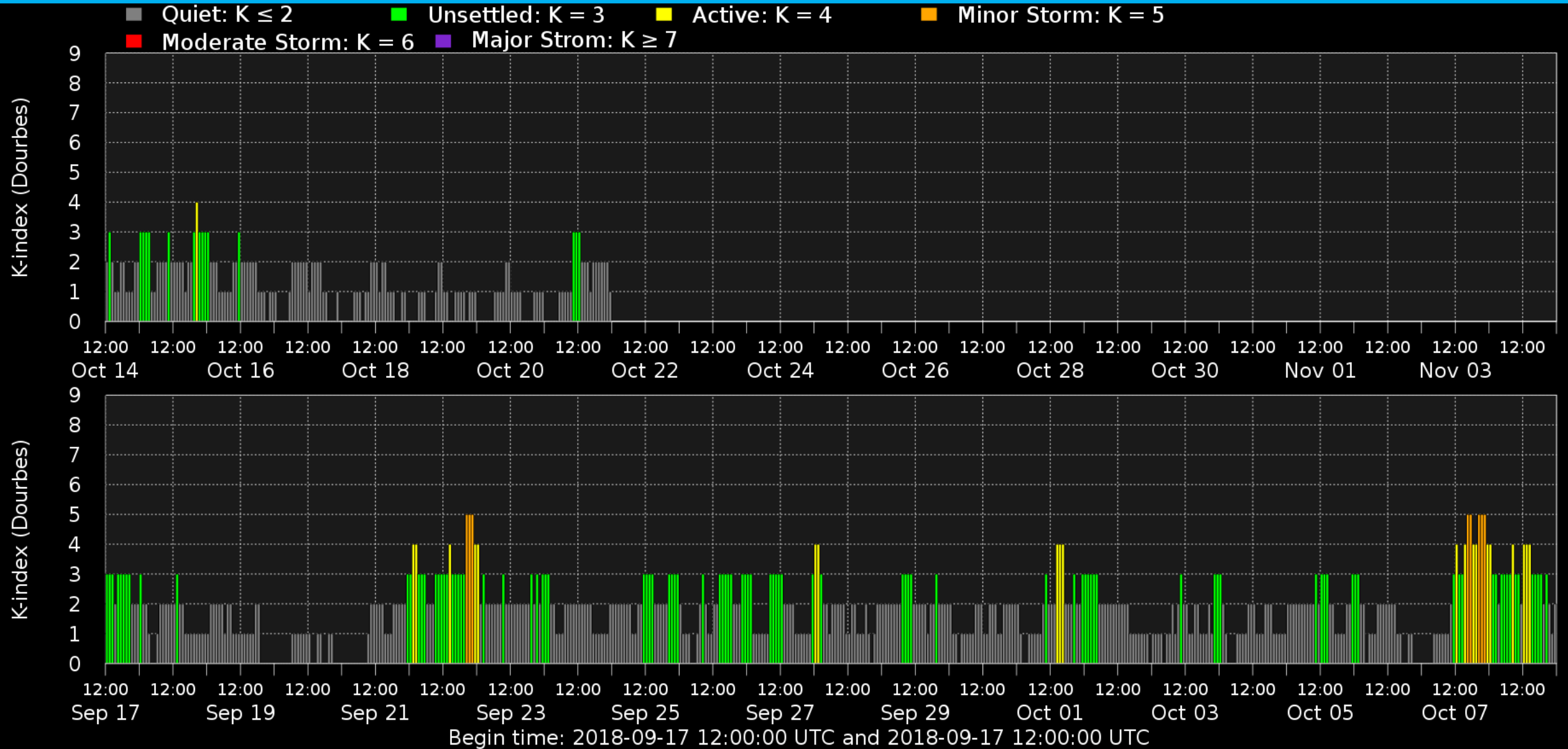
Outlook: Solar wind

DSCOVR (ngdc.noaa.gov/dscovr)



Begin time: 2018-09-17 12:00:00 UTC

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