

SIDC Space Weather Briefing

14 June 2020 - 21 June 2020

Luciano Rodriguez
& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2020-06-14 12:00 UT to 2020-06-21 12:00 UT

Active regions	NOAA AR 2765
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
CMEs	None Earth directed
Proton Events	None

Solar wind and geomagnetic conditions from 2020-06-14 12:00 UT to 2020-06-21 12:00 UT

Coronal Holes	Small patchy, equatorial coronal hole areas
ICME	None
SW Conditions	Speeds < 350 km/s, B < 7 nT
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 2

All Quiet Alert: On

Solar Activity

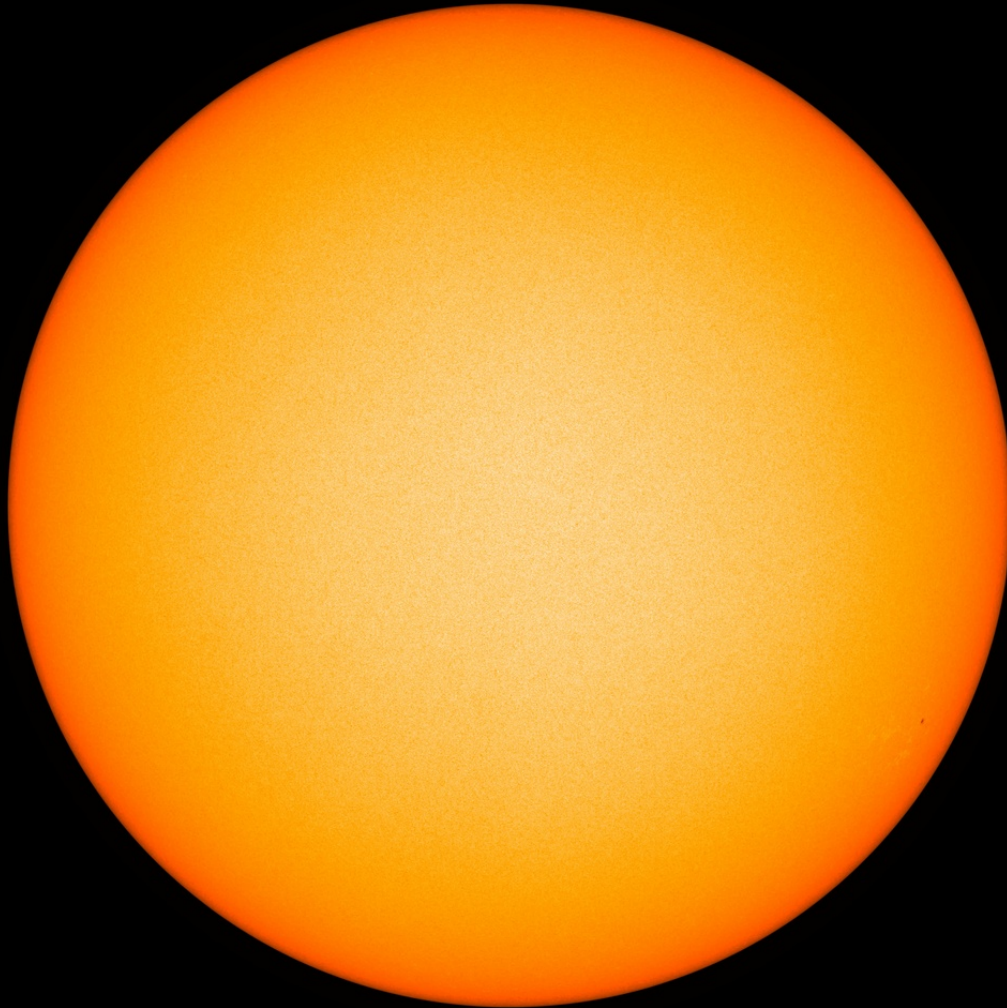


Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

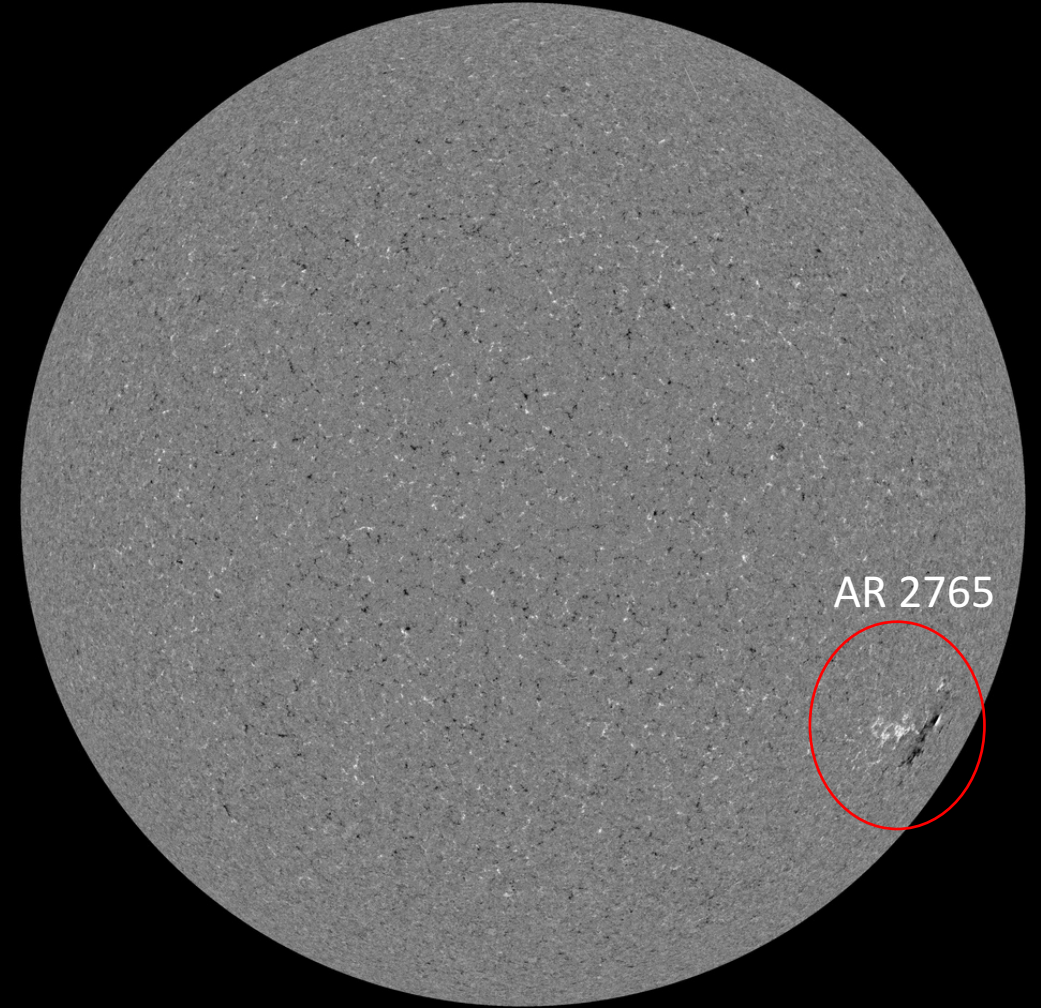
Solar active region - start of the week

SDO/HMI White Light 2020-06-14



SDO/HMI Quick-Look Continuum: 20200614_114500

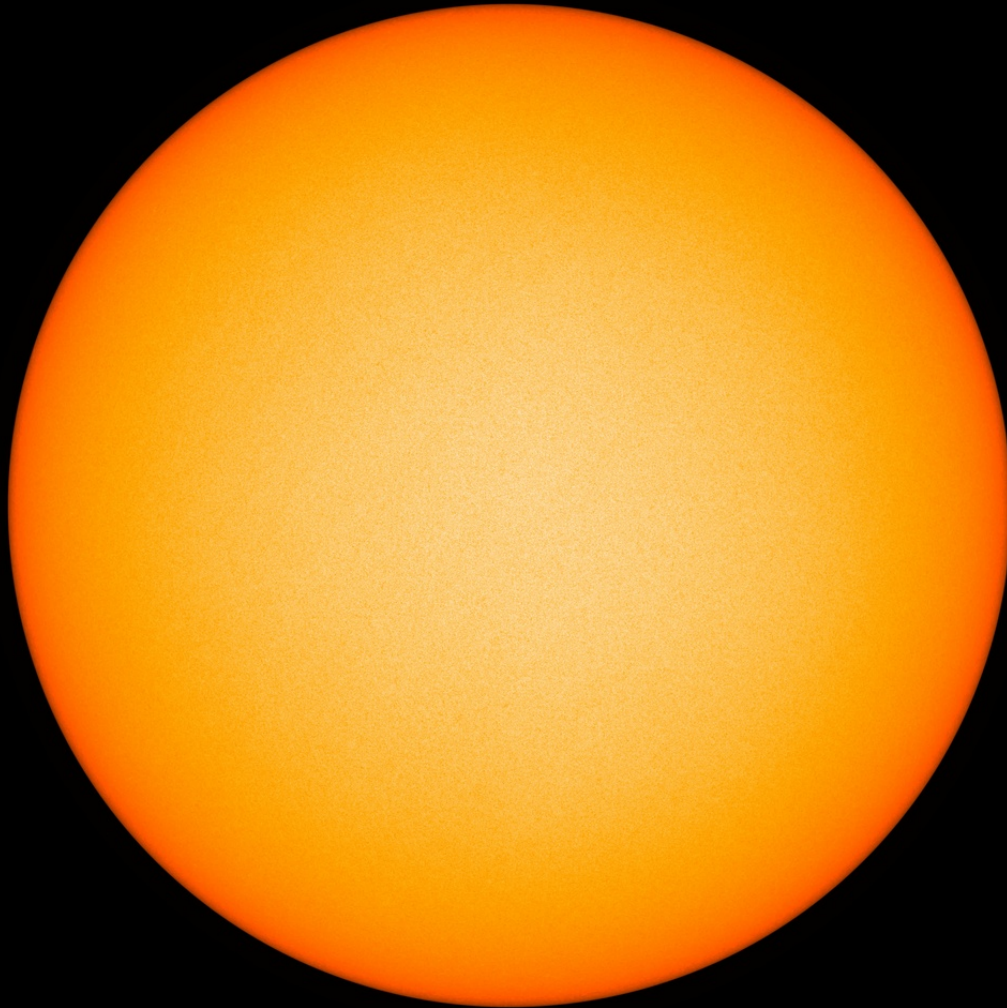
SDO/HMI Magnetogram 2020-06-14



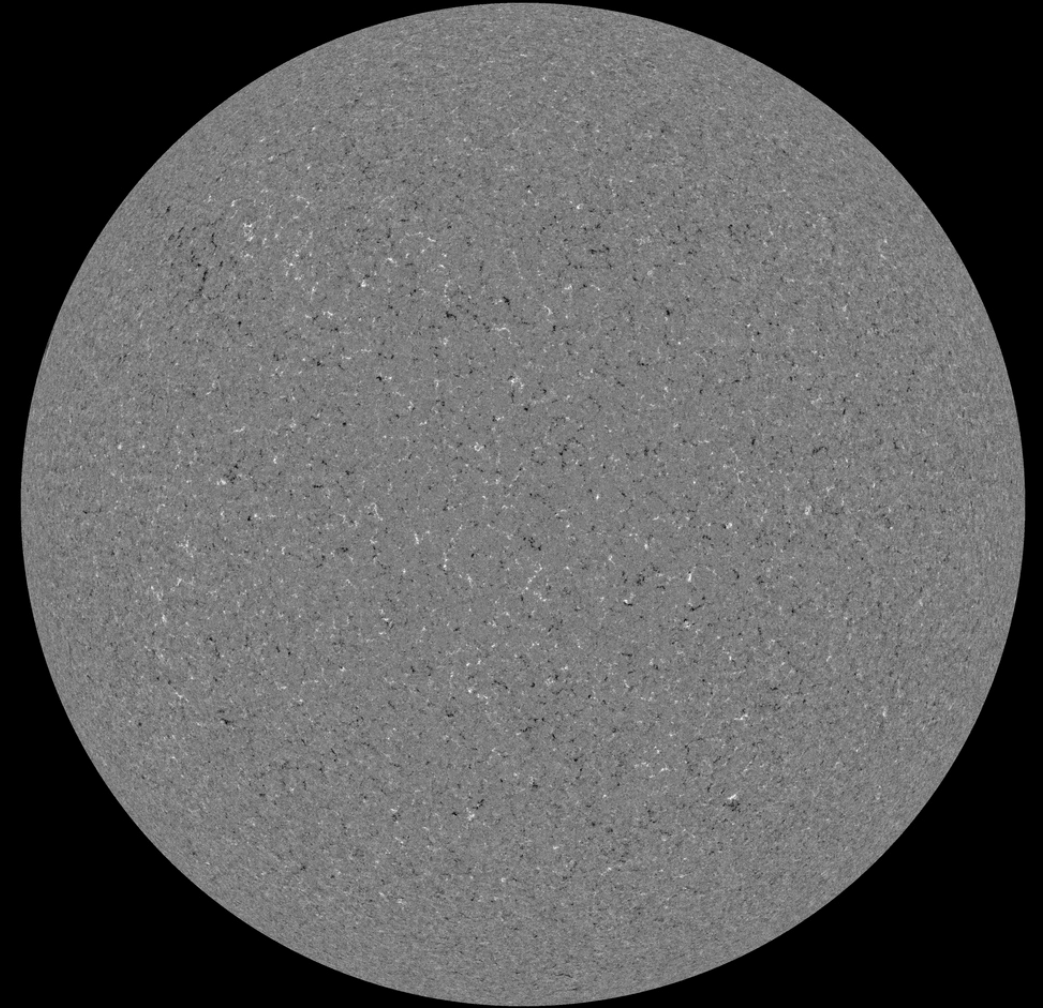
SDO/HMI Quick-Look Magnetogram: 20200614_114500

Solar active region - middle of the week

SDO/HMI White Light 2020-06-17

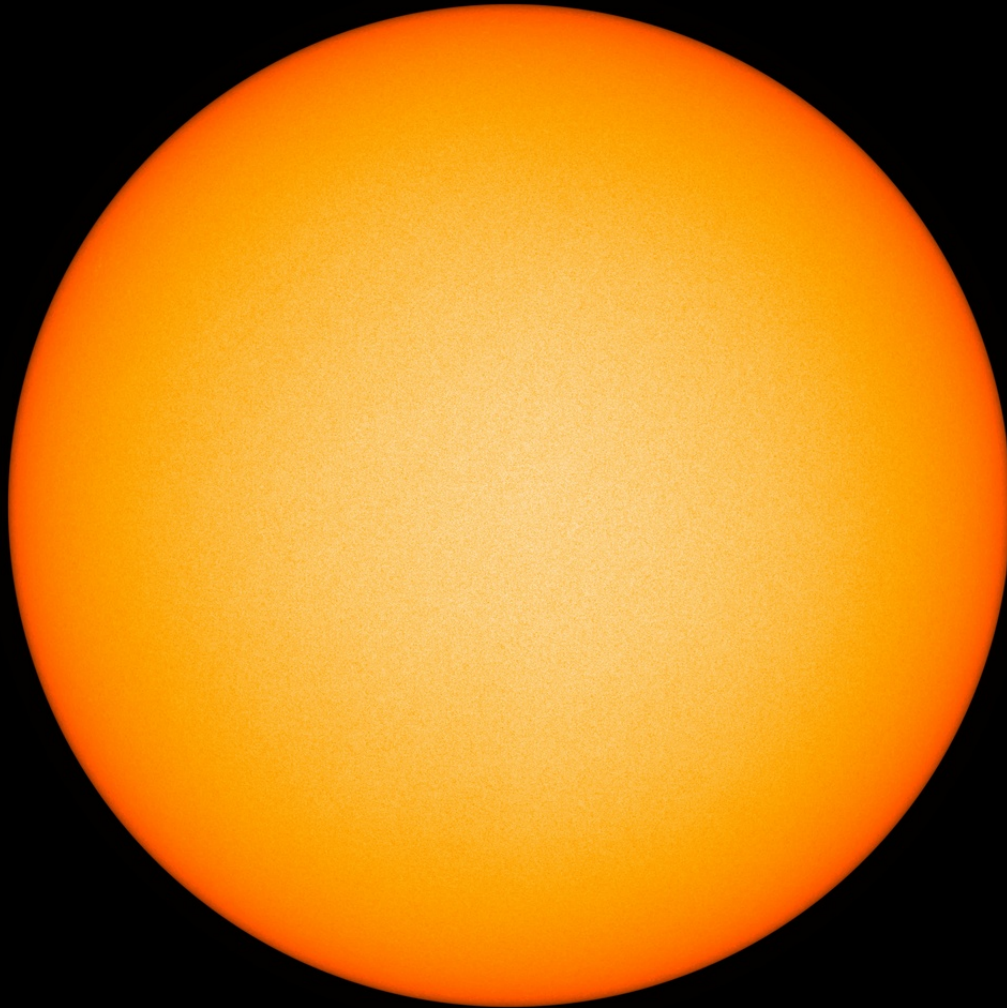


SDO/HMI Magnetogram 2020-06-17



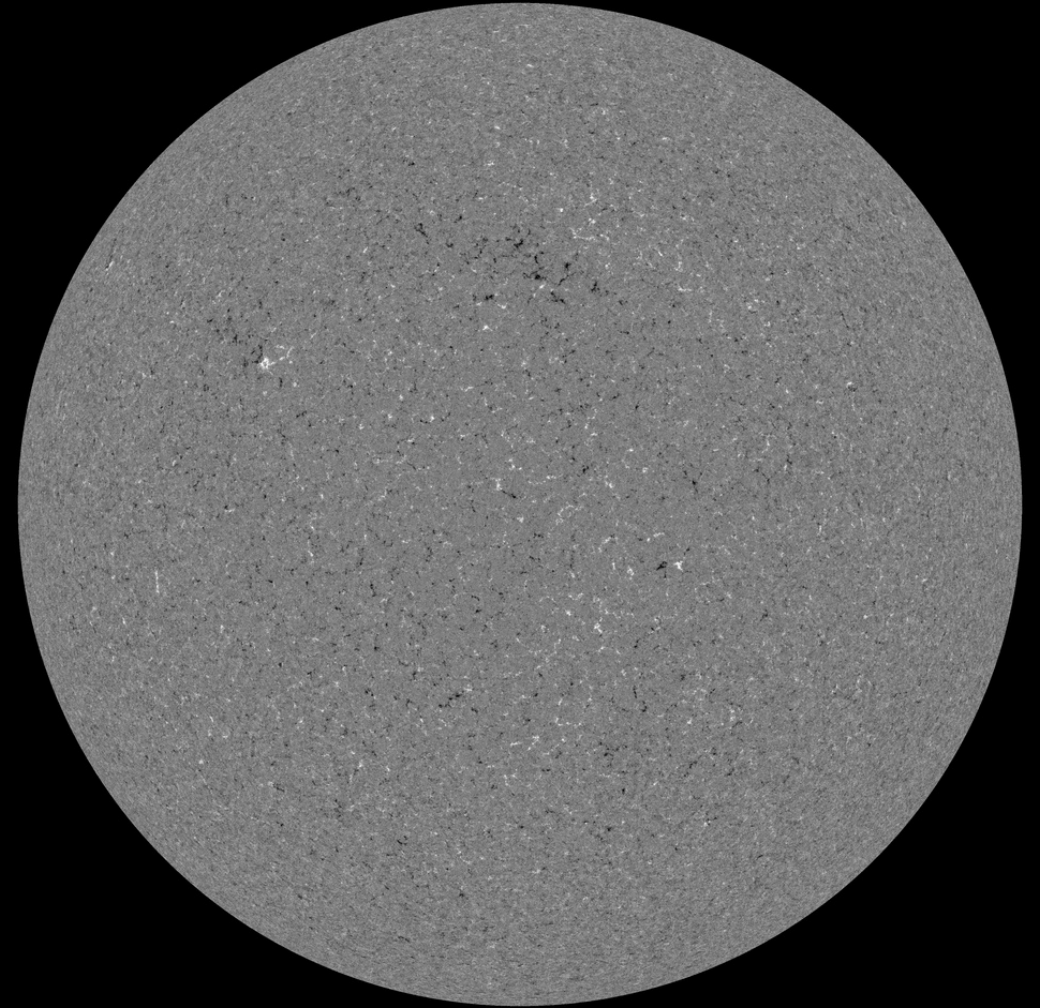
Solar active region - end of the week

SDO/HMI White Light 2020-06-21



SDO/HMI Quick-Look Continuum: 20200621_114500

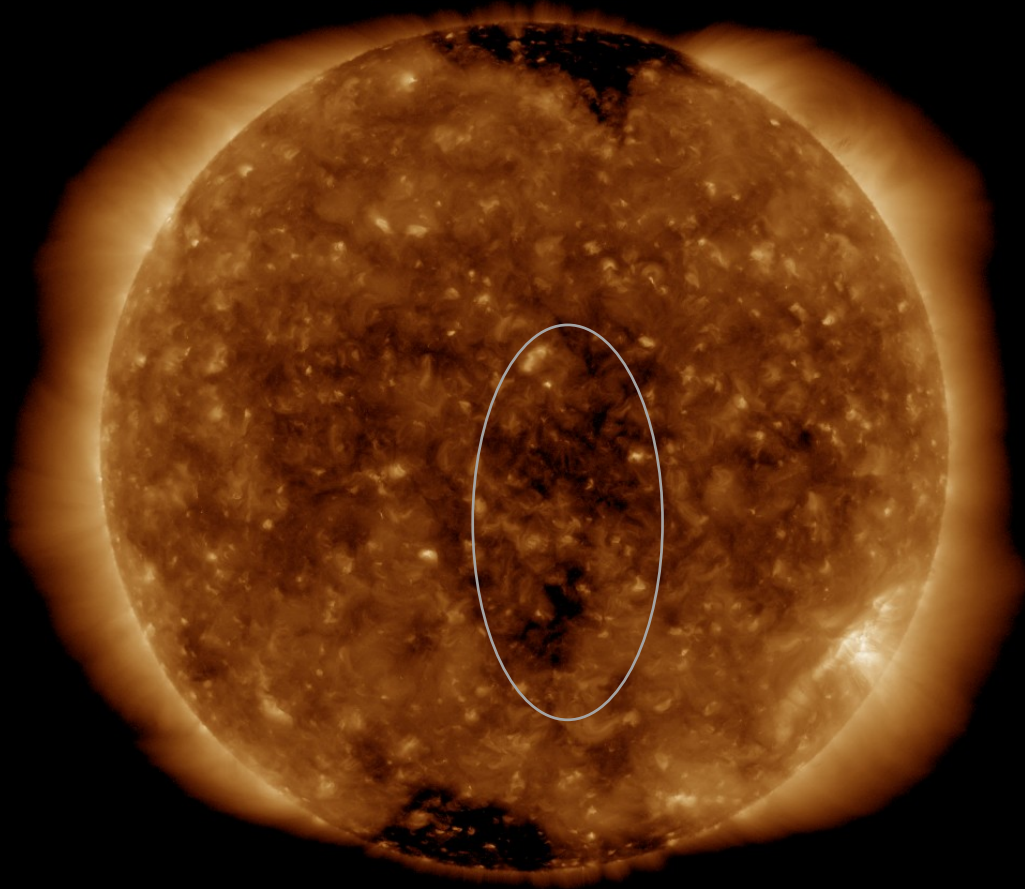
SDO/HMI Magnetogram 2020-06-21



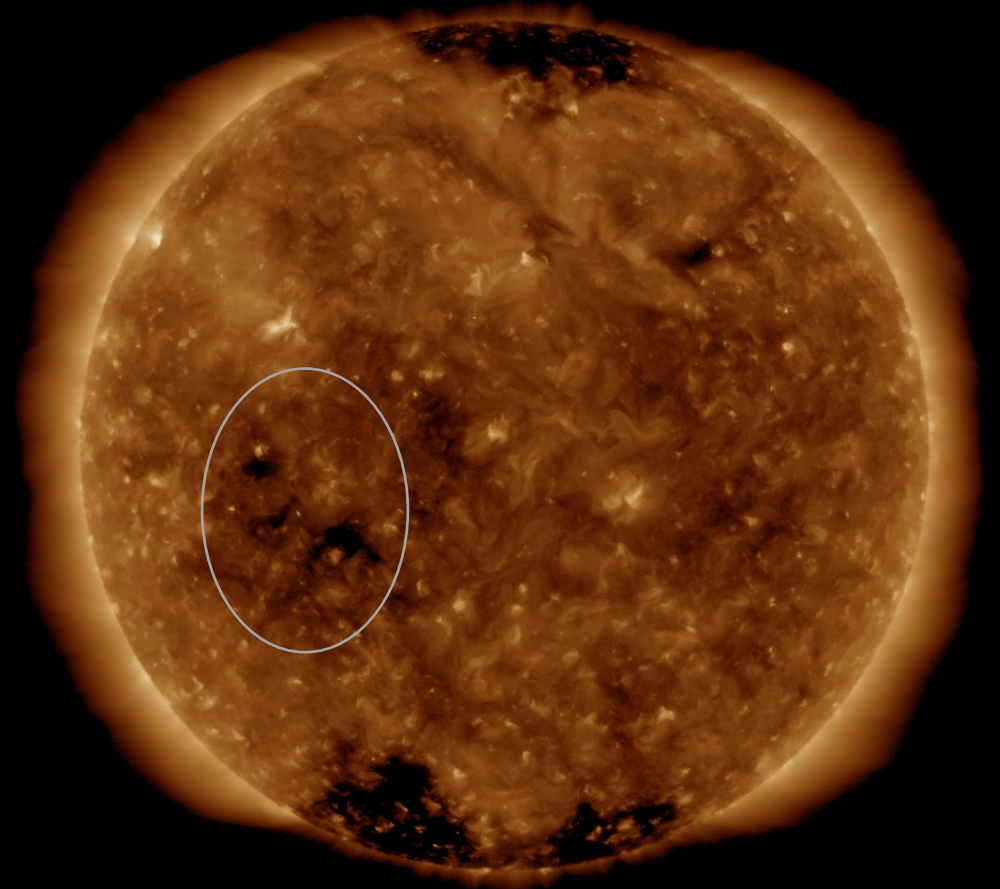
SDO/HMI Quick-Look Magnetogram: 20200621_114500

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2020-06-14



SDO/AIA 19.3 nm 2020-06-21

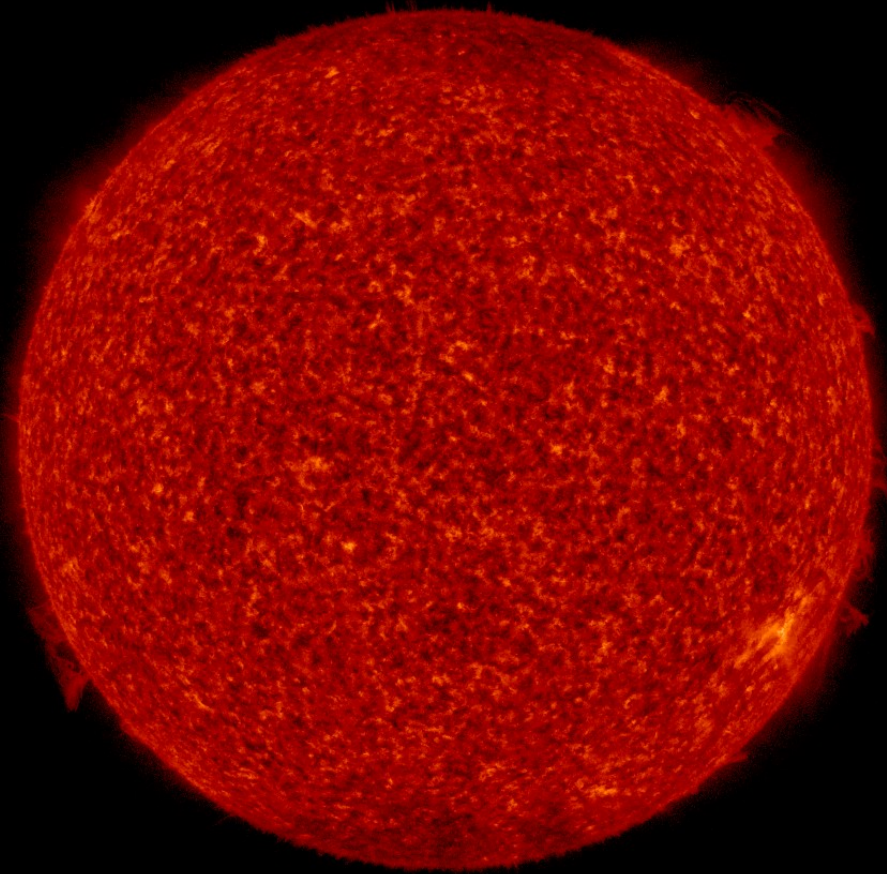


SDO/AIA 193 2020-06-14 12:18:05 UT

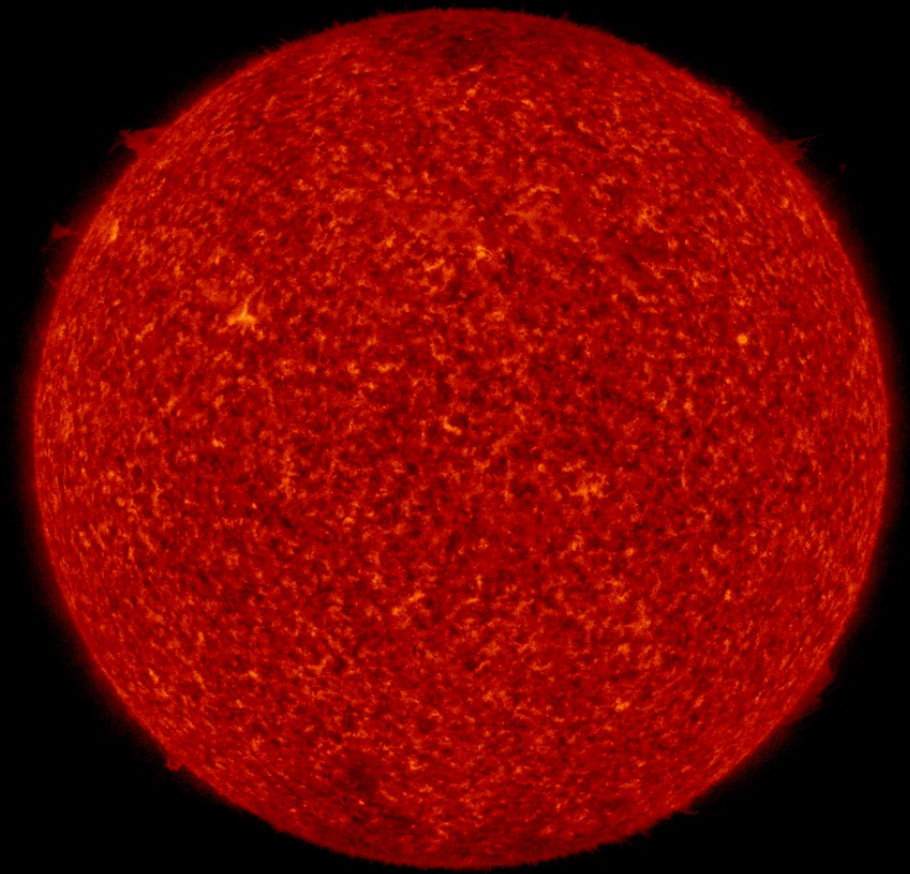
SDO/AIA 193 2020-06-21 12:17:29 UT

Solar active region & Filament

SDO/AIA 30.4 nm 2020-06-14



SDO/AIA 30.4 nm 2020-06-21



SDO/AIA 304 2020-06-14 12:19:18 UT

SDO/AIA 304 2020-06-21 12:19:42 UT

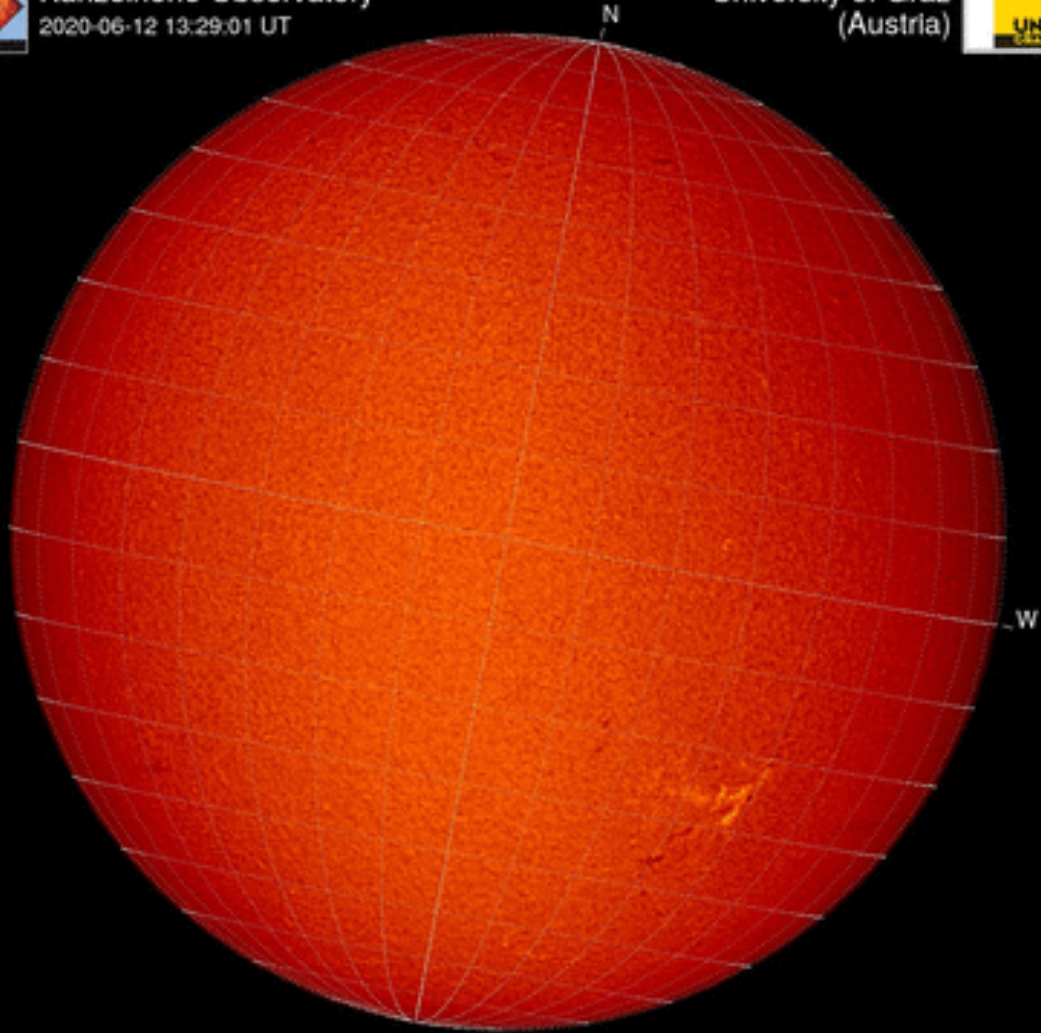
Filament & Filament eruption

H-alpha 2020-06-14



Kanzelhöhe Observatory
2020-06-12 13:29:01 UT

University of Graz
(Austria)

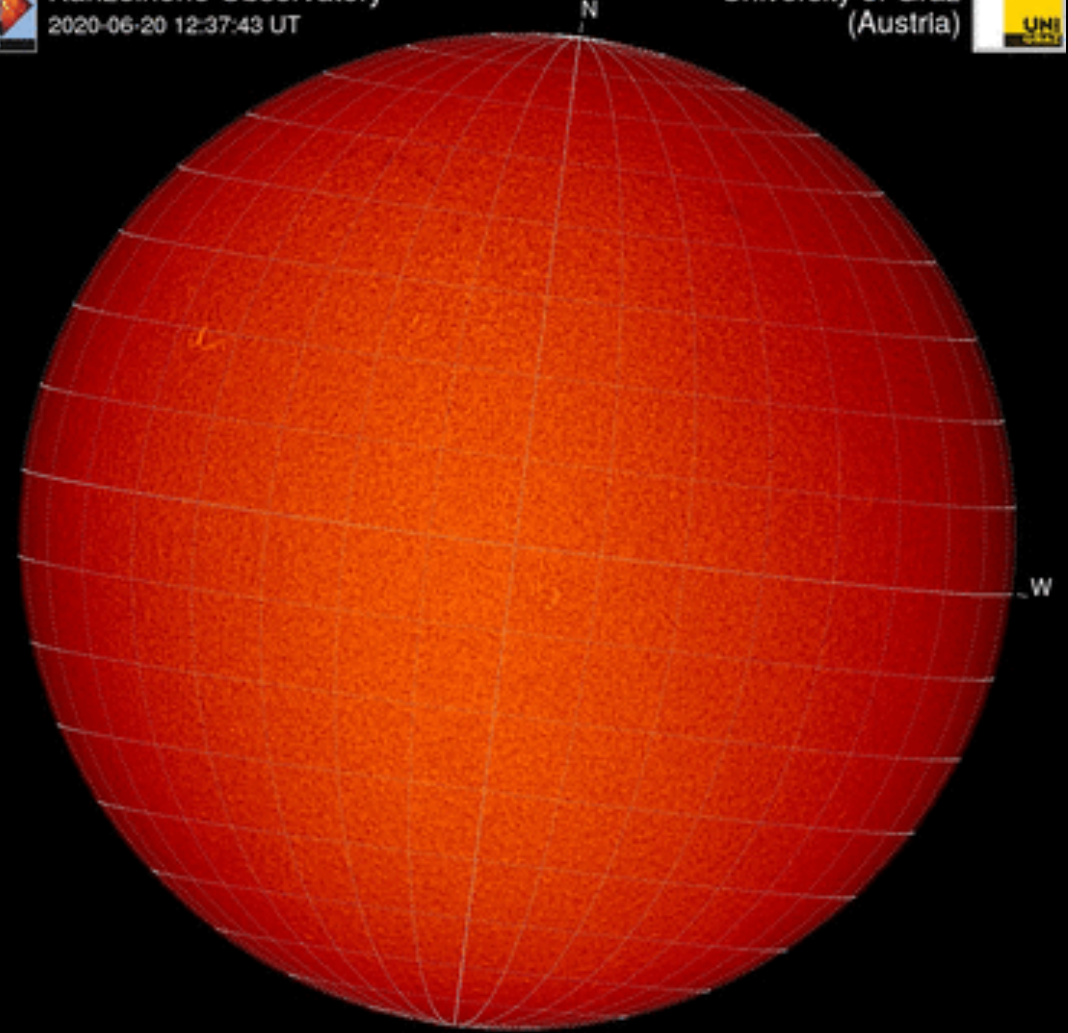


H-alpha 2020-06-21

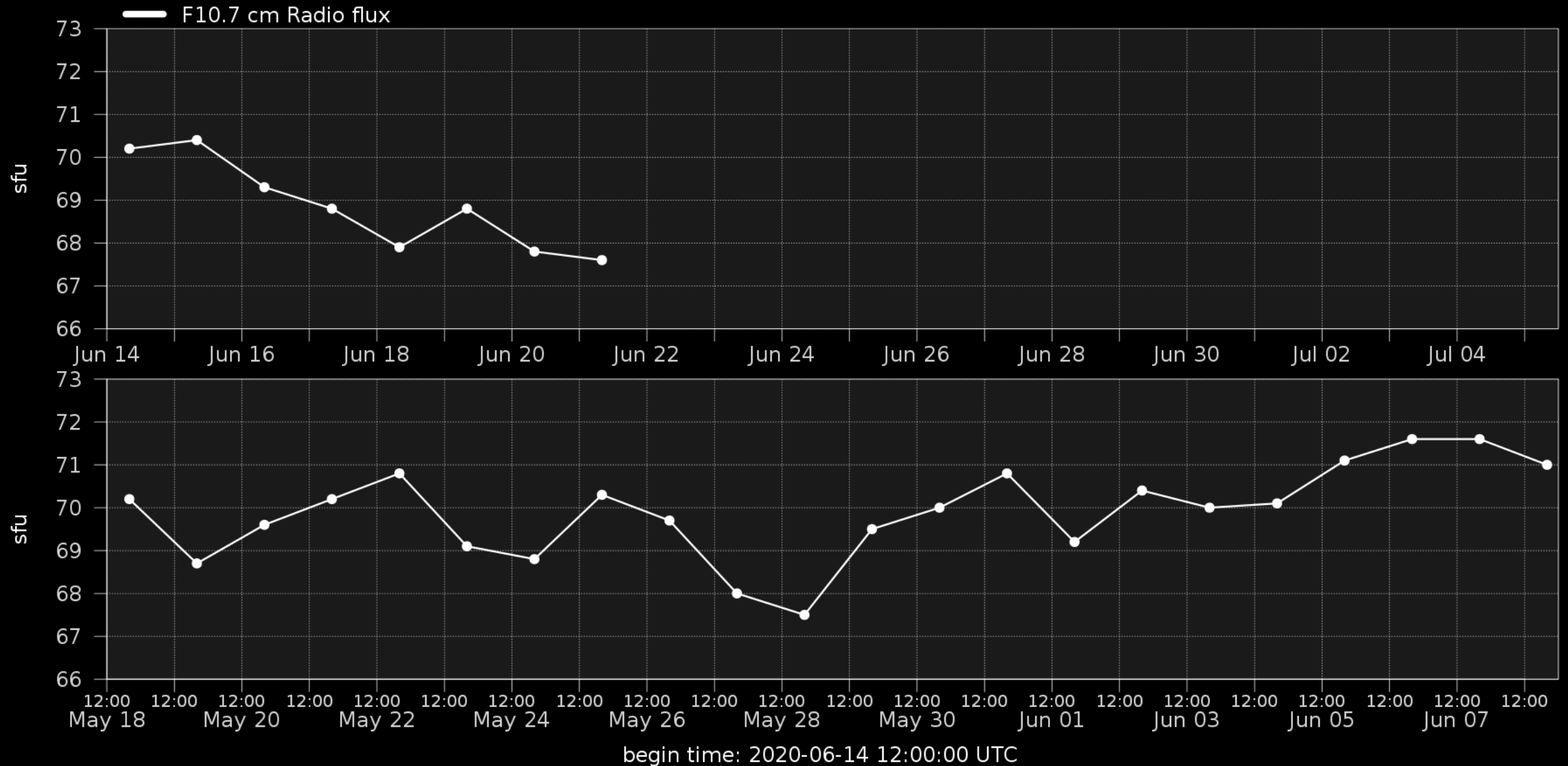


Kanzelhöhe Observatory
2020-06-20 12:37:43 UT

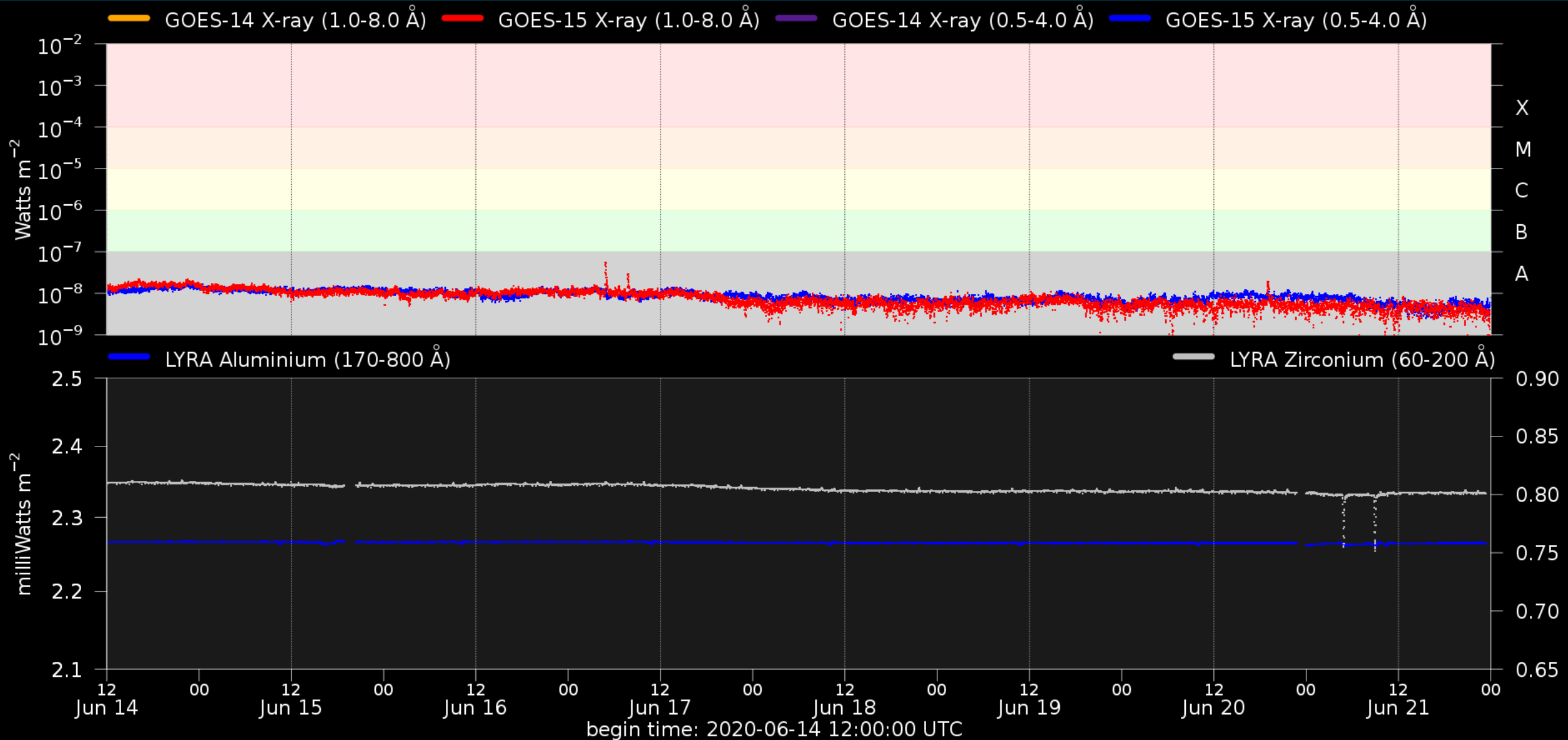
University of Graz
(Austria)



Solar F10.7cm radio flux



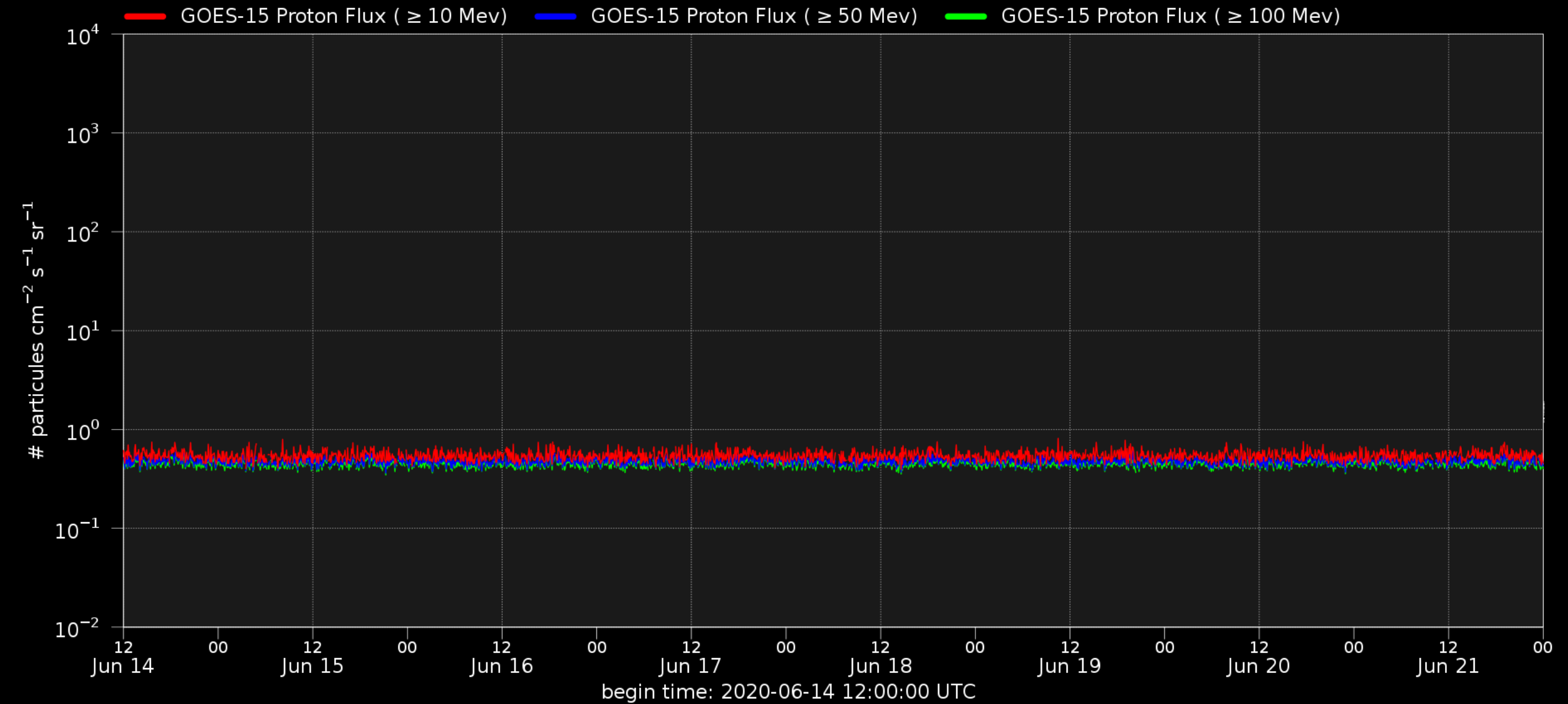
Solar X-Ray and UV flux



Coronal Mass Ejection

00:00 06/21
20:24 06/20
17:36 06/20
14:24 06/20
11:00 06/20
08:24 06/20
05:24 06/20
02:32 06/20
23:39 06/19
20:12 06/19
17:12 06/19
13:48 06/19
10:54 06/19
07:42 06/19
04:33 06/19
23:48 06/18
20:00 06/18
17:00 06/18
13:36 06/18
10:24 06/18
07:12 06/18
04:36 06/18
01:48 06/18
22:12 06/17
18:48 06/17
16:24 06/17
13:36 06/17
10:12 06/17
07:24 06/17
04:24 06/17
00:48 06/17
22:00 06/16
19:06 06/16
16:24 06/16
12:54 06/16
10:00 06/16
07:12 06/16
04:24 06/16
01:36 06/16
22:00 06/15
19:00 06/15
16:00 06/15
12:24 06/15
09:36 06/15
06:24 06/15

Solar proton flux

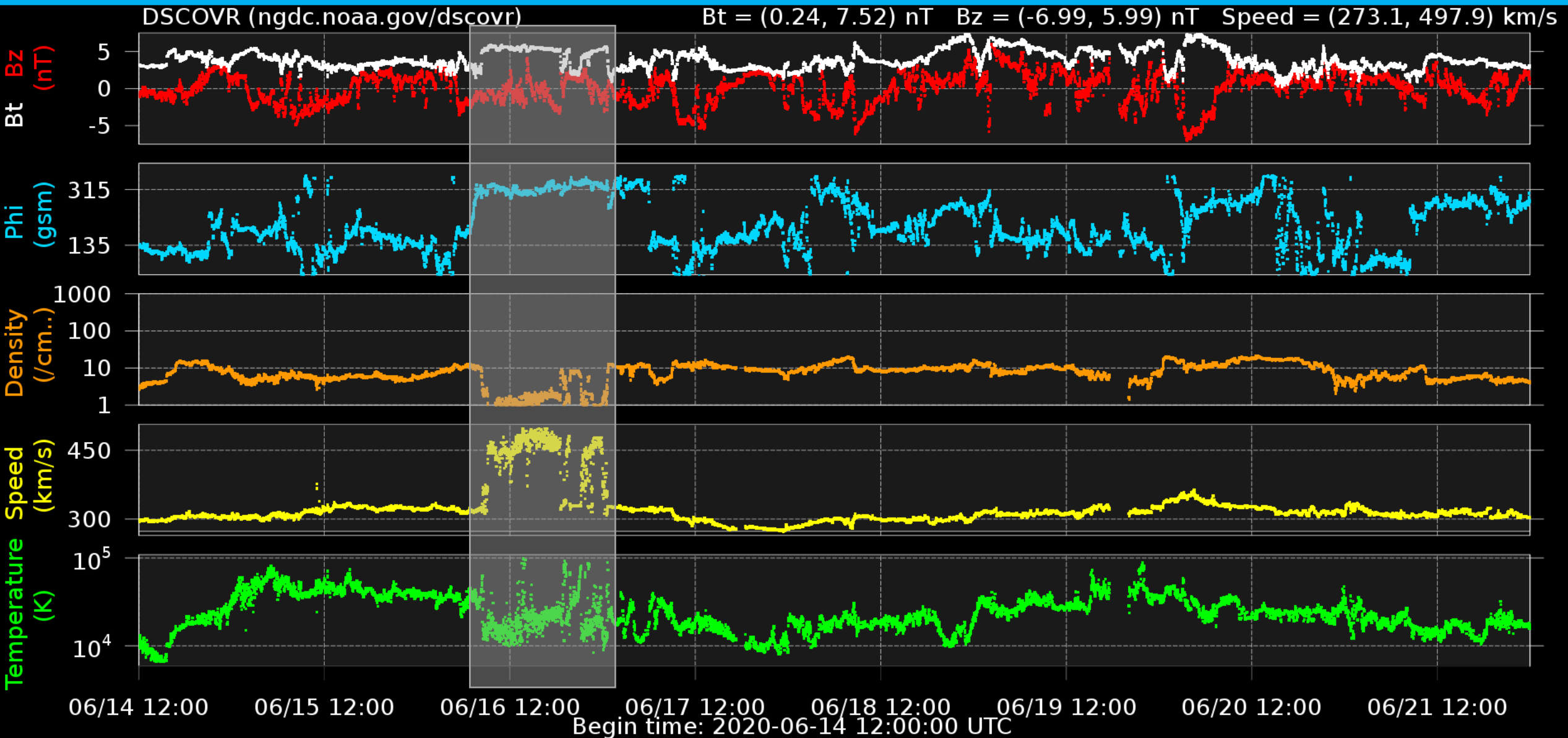


Solar Wind and Geomagnetic Activity

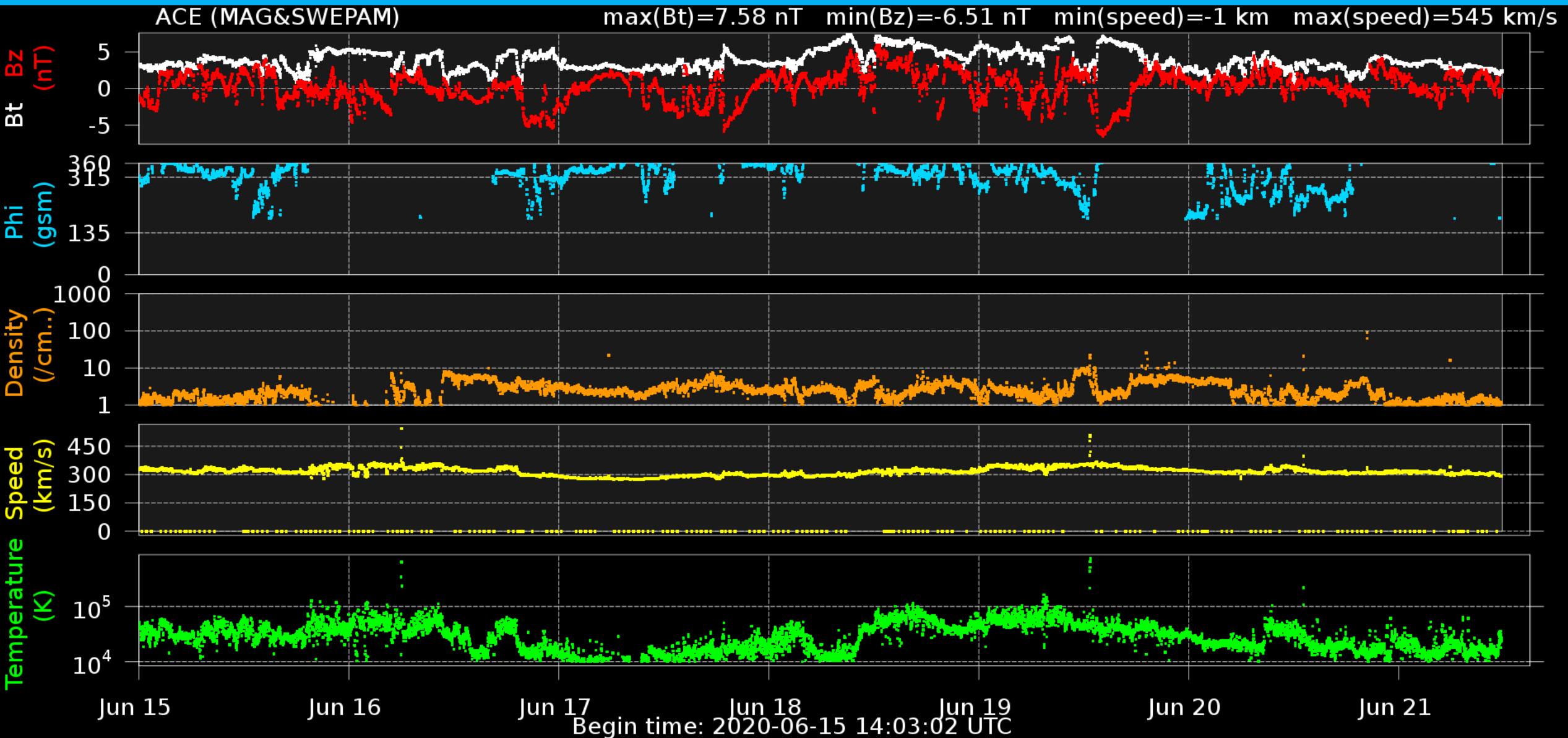


Solar Influences
Data analysis Centre
www.sidc.be

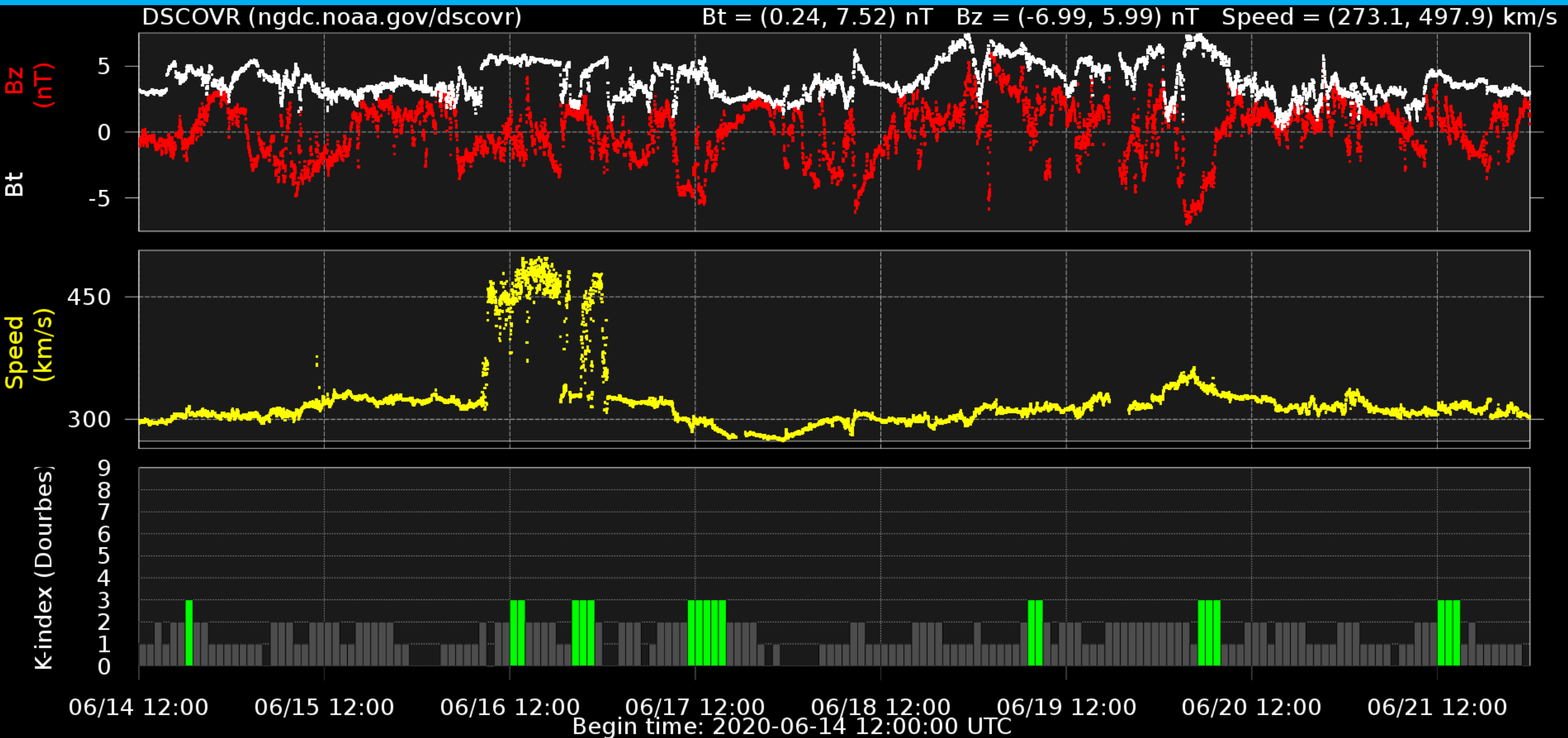
Solar wind parameters (DSCOVR data)



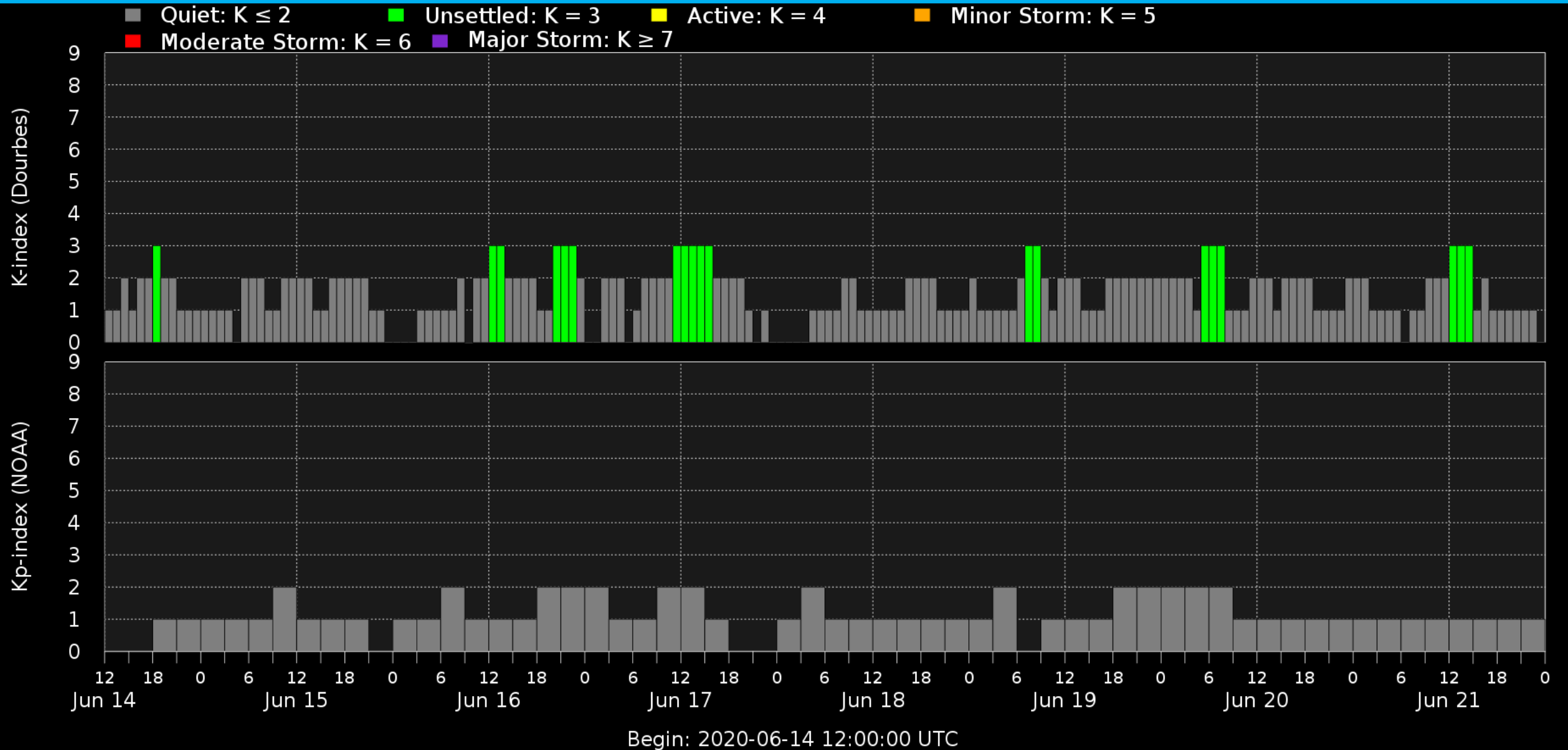
Solar wind parameters (ACE data)



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



Geomagnetic activity (K-indexes)



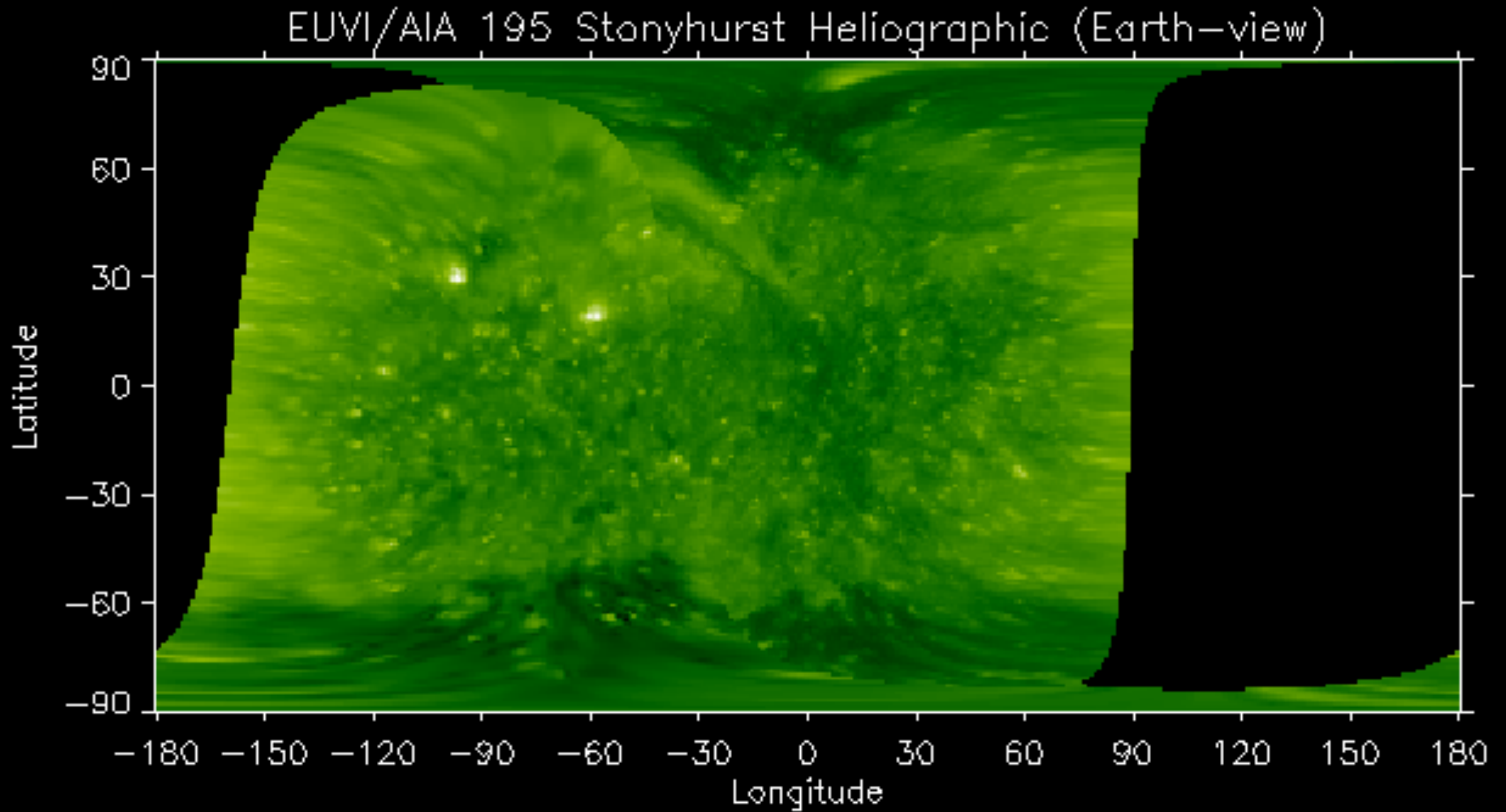
Outlook



Royal Observatory
of Belgium

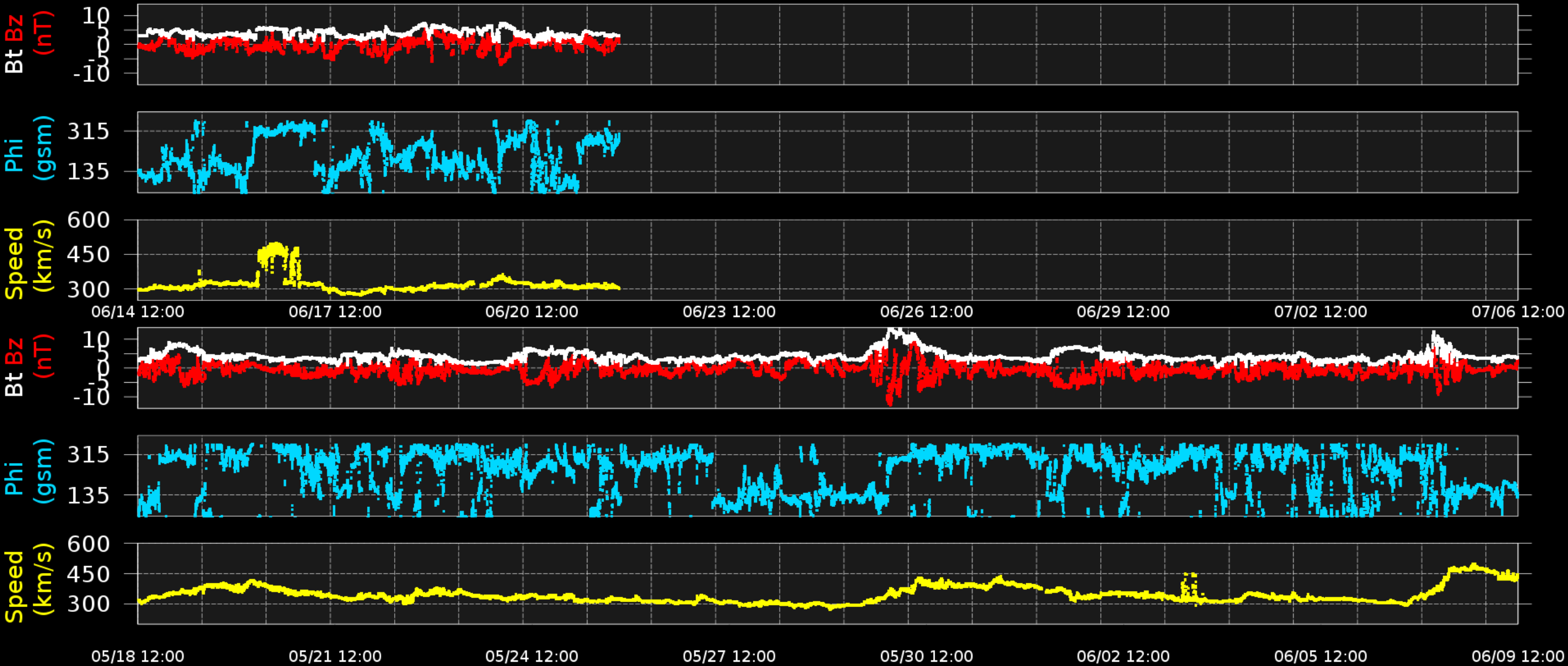
Solar Influences
Data analysis Centre
www.sidc.be

Outlook: Solar activity



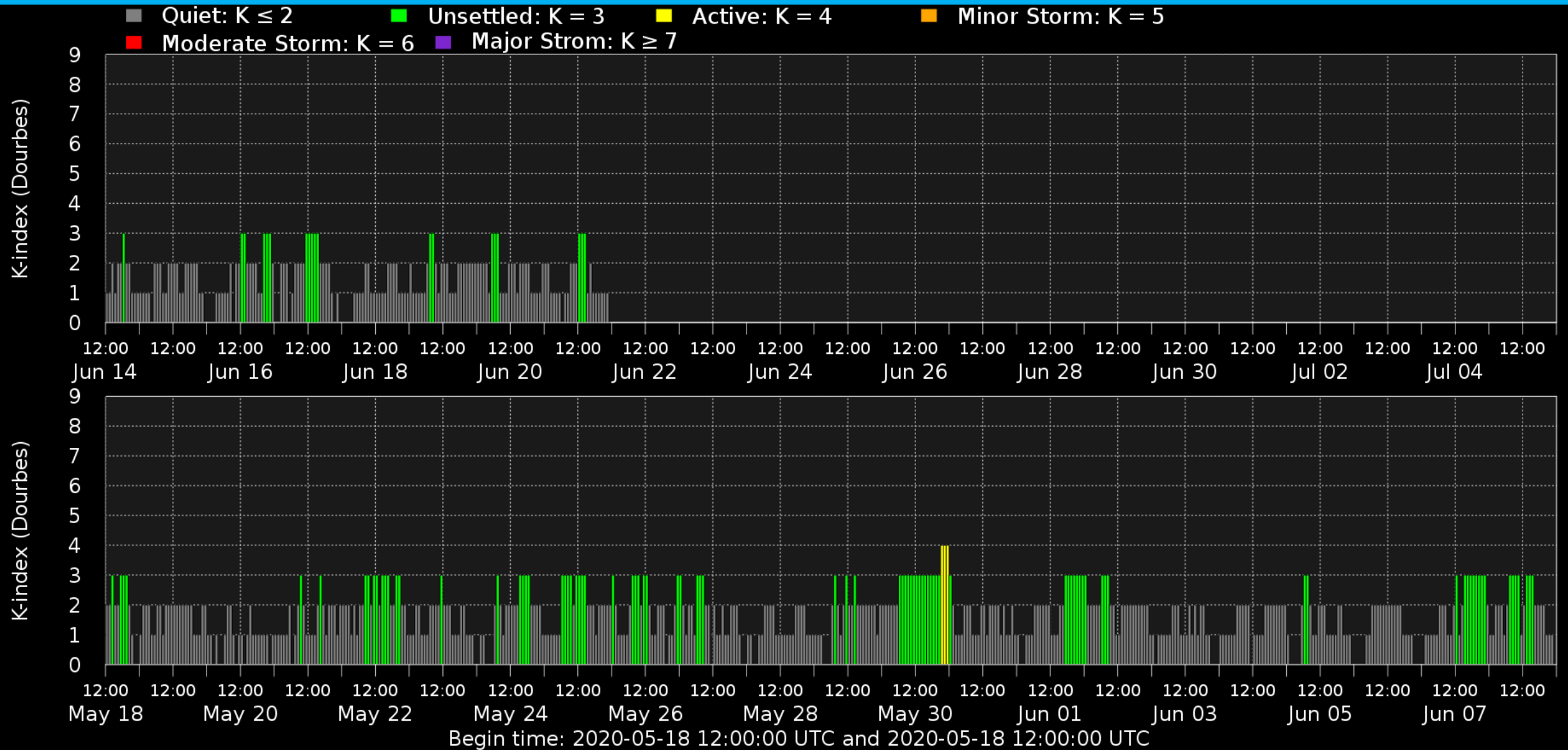
Outlook: Solar wind

DSCOVR (ngdc.noaa.gov/dscovr)



Begin time: 2020-05-18 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