

SIDC Space Weather Briefing

23 July 2018 - 29 July 2018

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& the SIDC forecaster team



Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2018-07-22 12:00 UT to 2018-07-29 12:00 UT

Active regions	None
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	None
CMEs	None
Proton Events	None

Solar wind and geomagnetic conditions from 2018-07-22 12:00 UT to 2018-07-29 12:00 UT

Coronal Holes	negative polarity equatorial coronal hole
ICME	None
SW Conditions	High speed stream 2018-07-24 till 2018-07-27
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 4

All Quiet Alert: since 2018-07-27

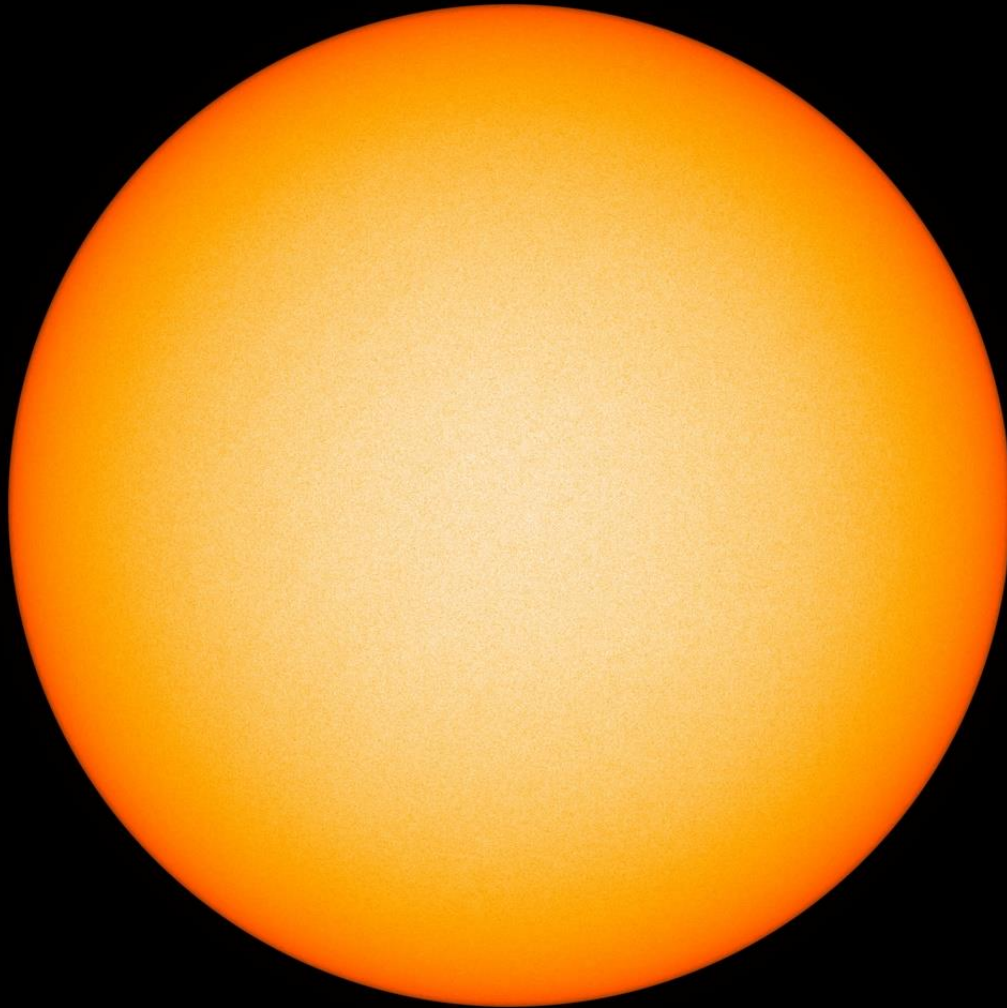
Solar Activity



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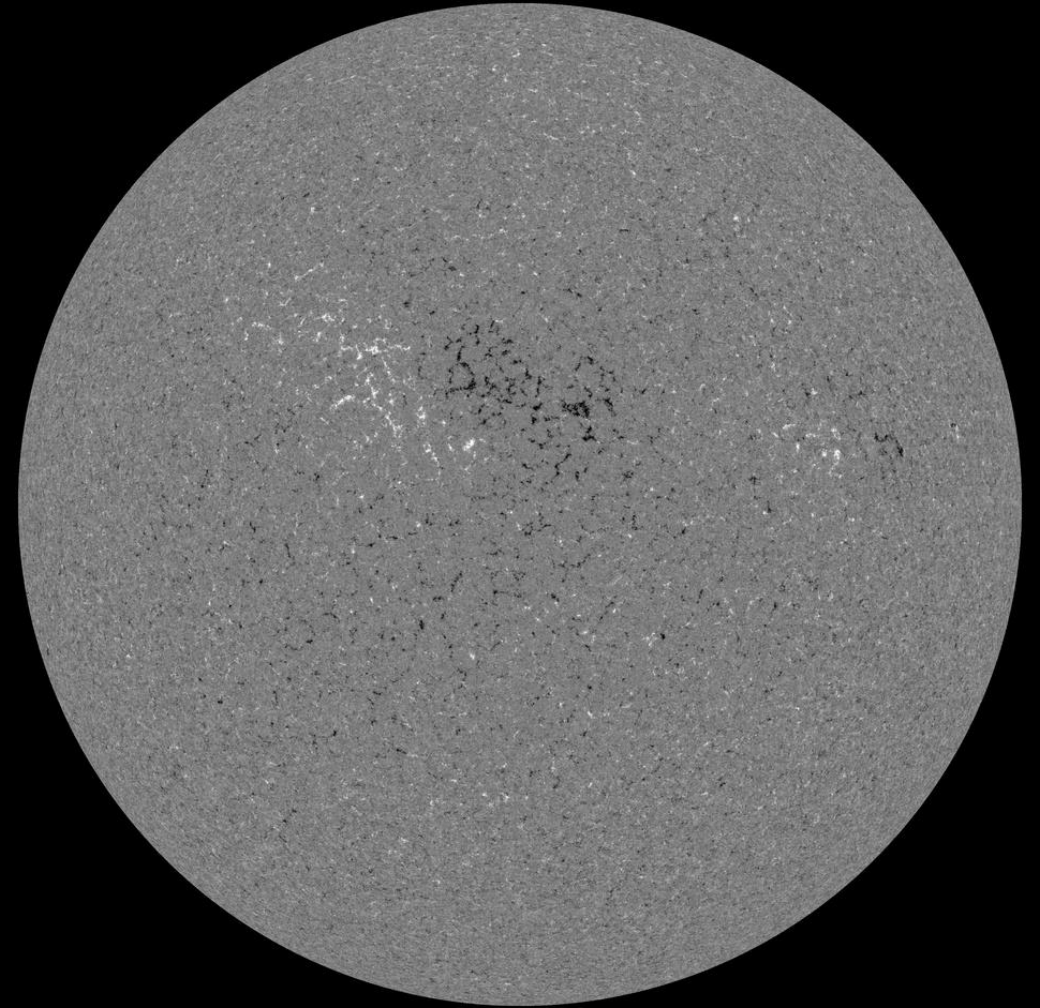
Solar active region - start of the week

SDO/HMI White Light 2018-07-22



SDO/HMI Quick-Look Continuum: 20180722_114500

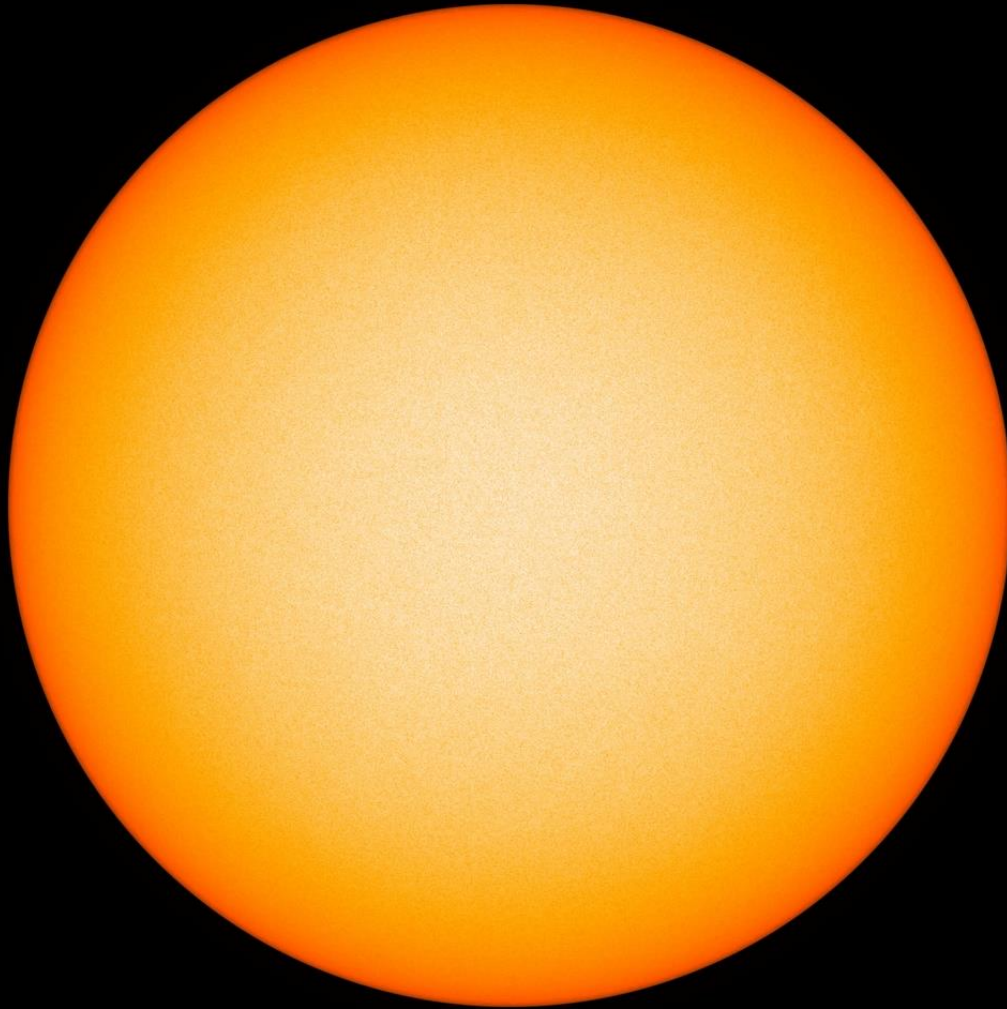
SDO/HMI Magnetogram 2018-07-22



SDO/HMI Quick-Look Magnetogram: 20180722_114500

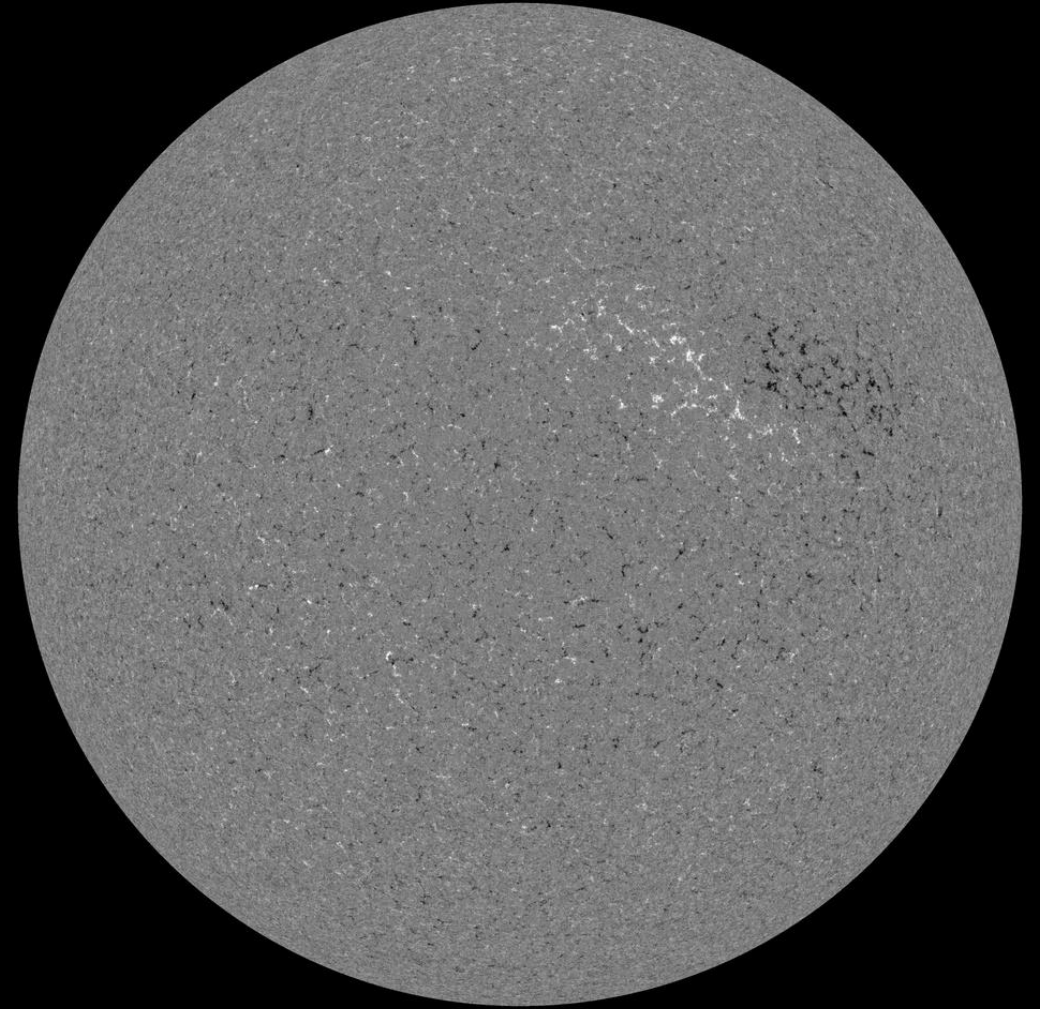
Solar active region - middle of the week

SDO/HMI White Light 2018-07-25



SDO/HMI Quick-Look Continuum: 20180725_114500

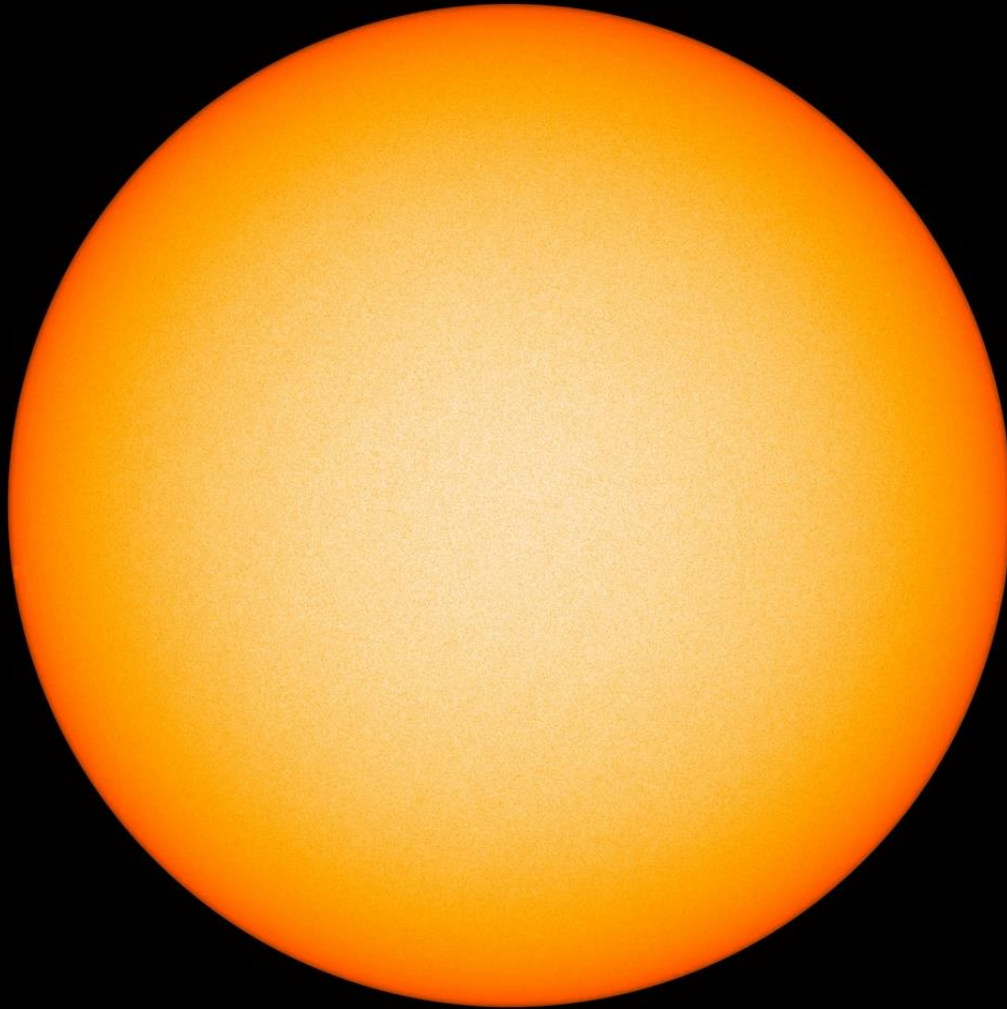
SDO/HMI Magnetogram 2018-07-25



SDO/HMI Quick-Look Magnetogram: 20180725_114500

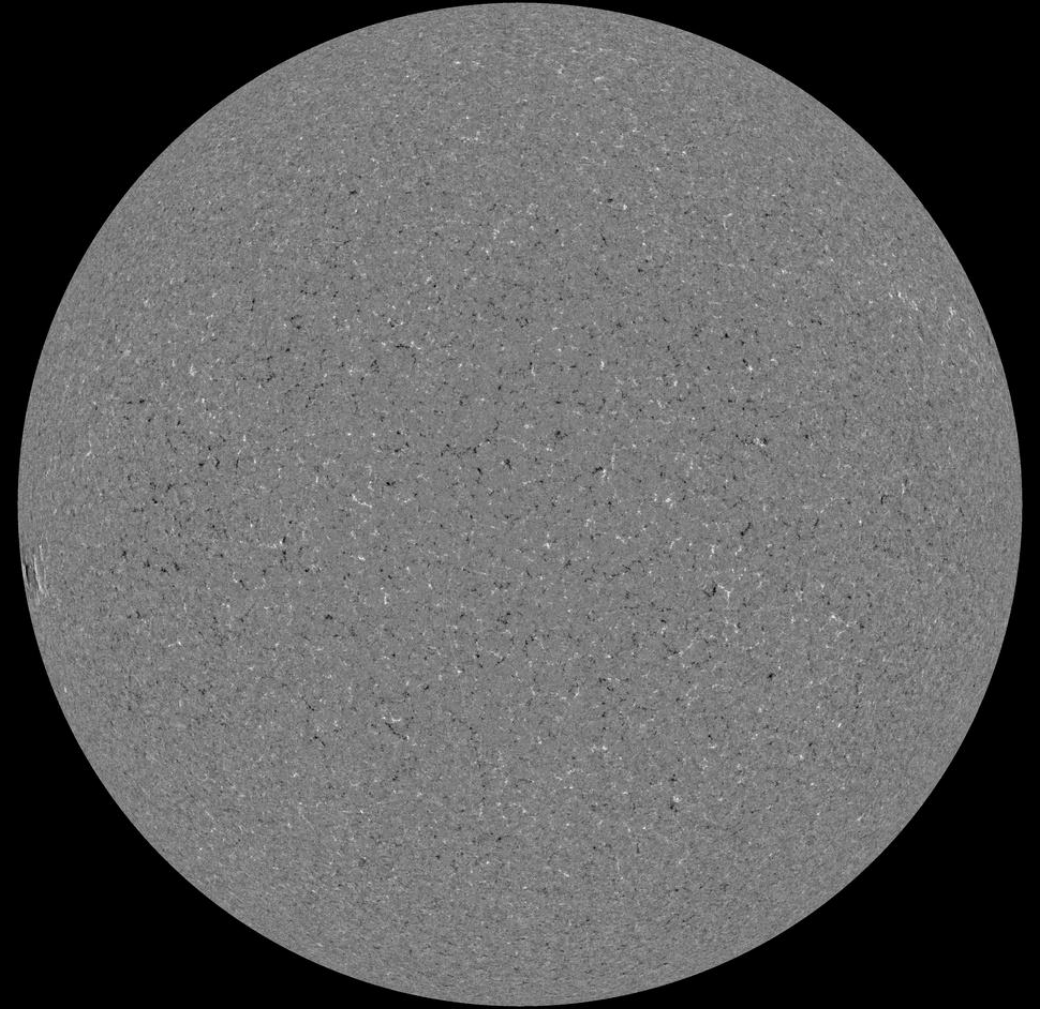
Solar active region - end of the week

SDO/HMI White Light 2018-07-29



SDO/HMI Quick-Look Continuum: 20180729_113000

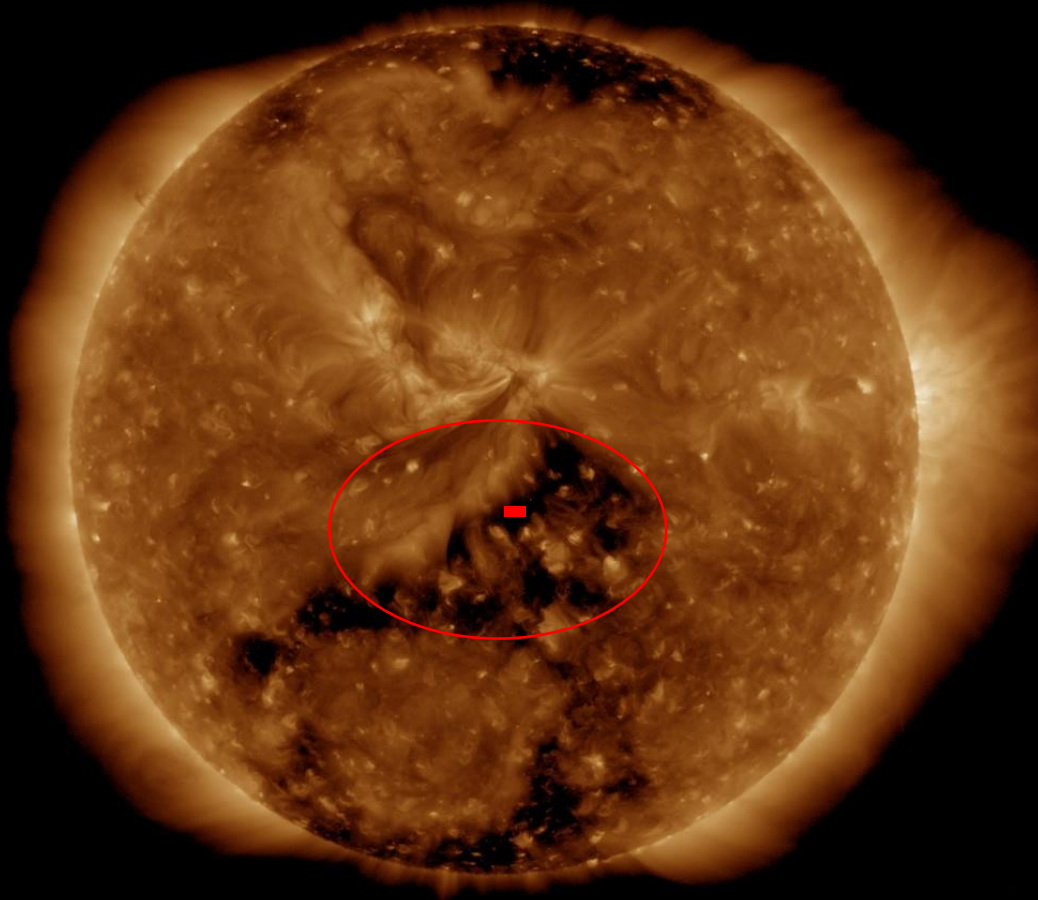
SDO/HMI Magnetogram 2018-07-29



SDO/HMI Quick-Look Magnetogram: 20180729_113000

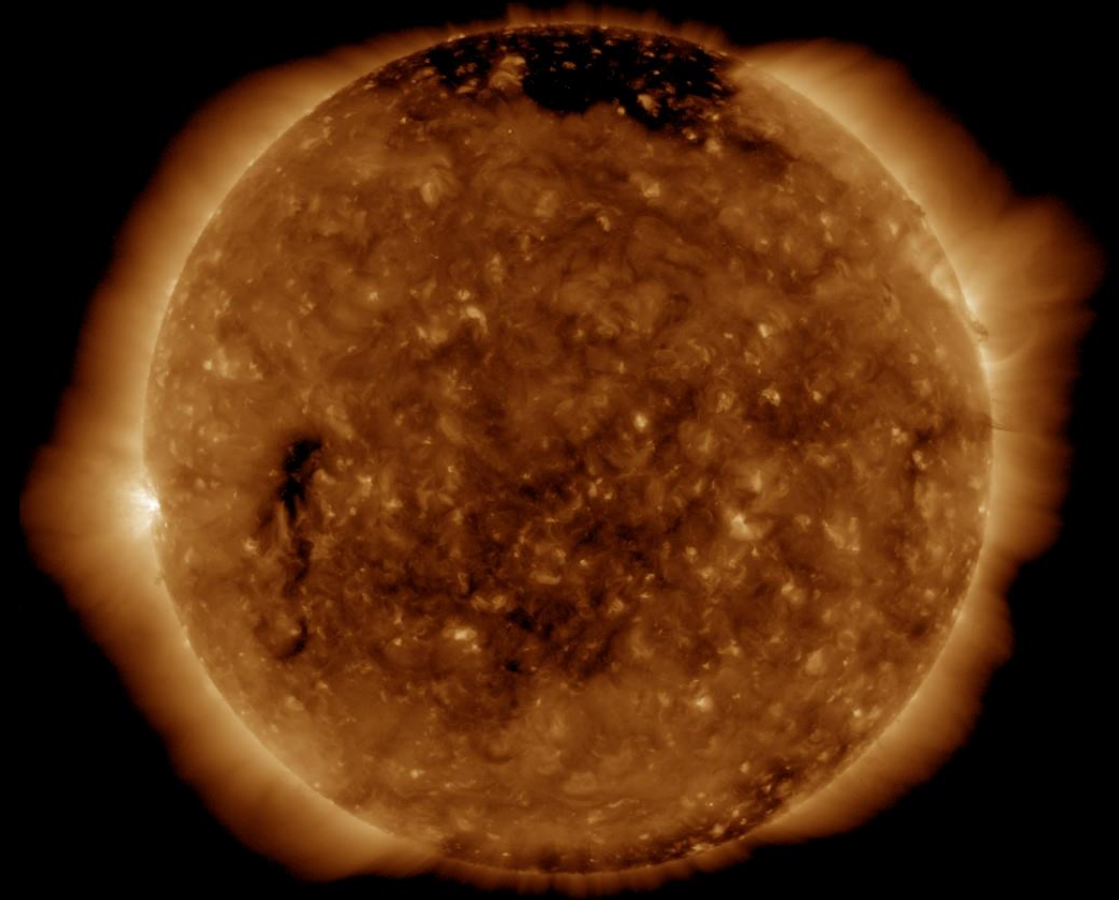
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2018-07-22



SDO/AIA 193 2018-07-22 12:10:17 UT

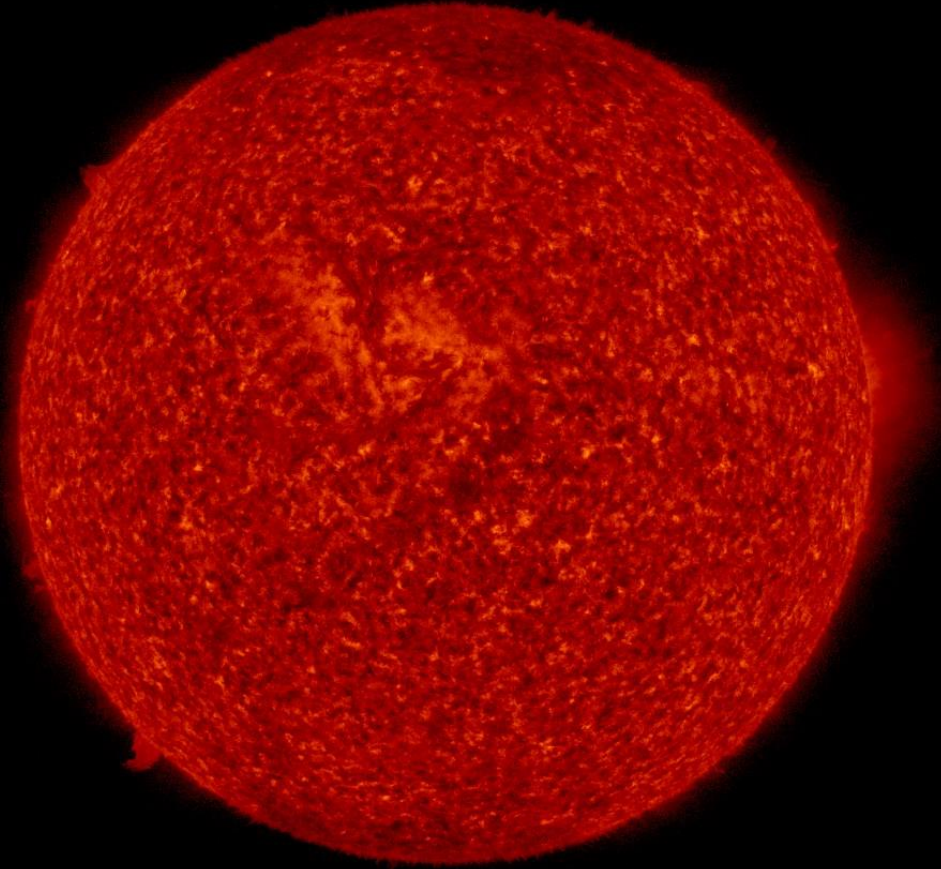
SDO/AIA 19.3 nm 2018-07-29



SDO/AIA 193 2018-07-29 12:11:17 UT

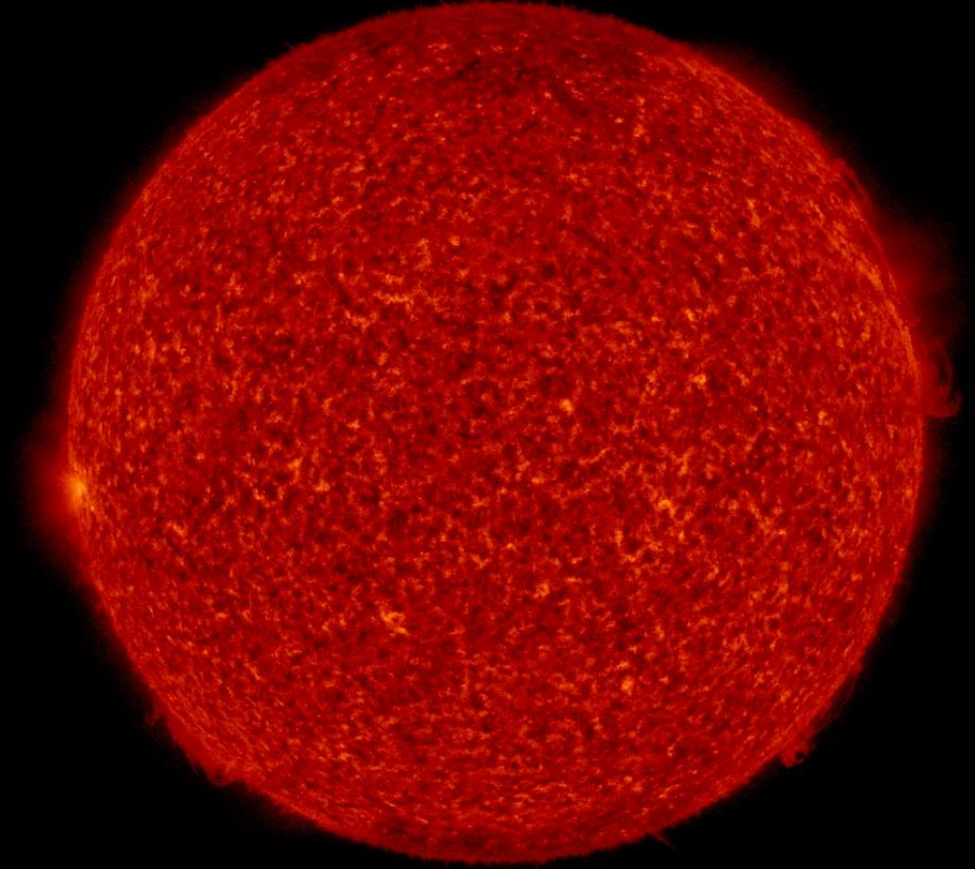
Solar active region & Filament

SDO/AIA 30.4 nm 2018-07-22



SDO/AIA 304 2018-07-22 12:13:54 UT

SDO/AIA 30.4 nm 2018-07-29



SDO/AIA 304 2018-07-29 12:13:30 UT

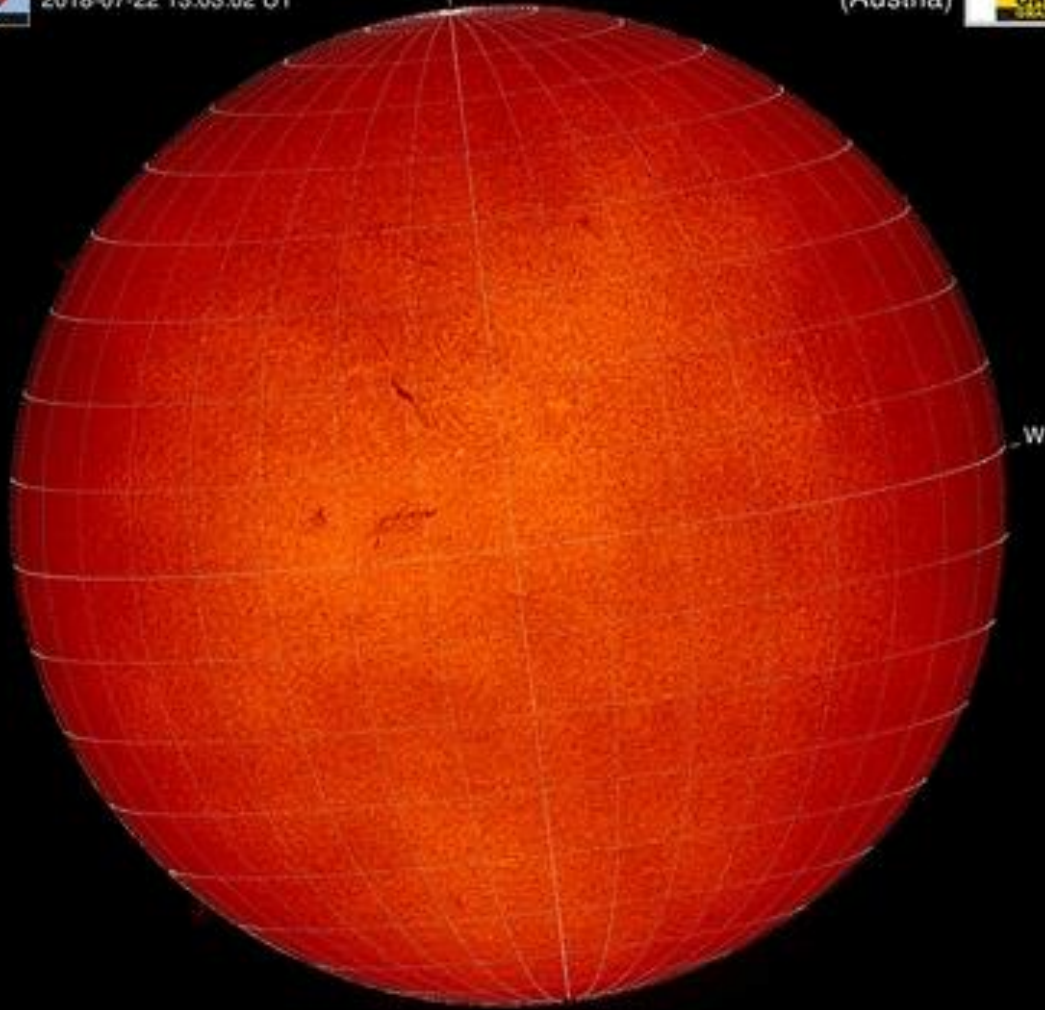
Filament & Filament eruption

H-alpha 2018-07-22



Kanzelhöhe Observatory
2018-07-22 13:03:02 UT

University of Graz
(Austria)

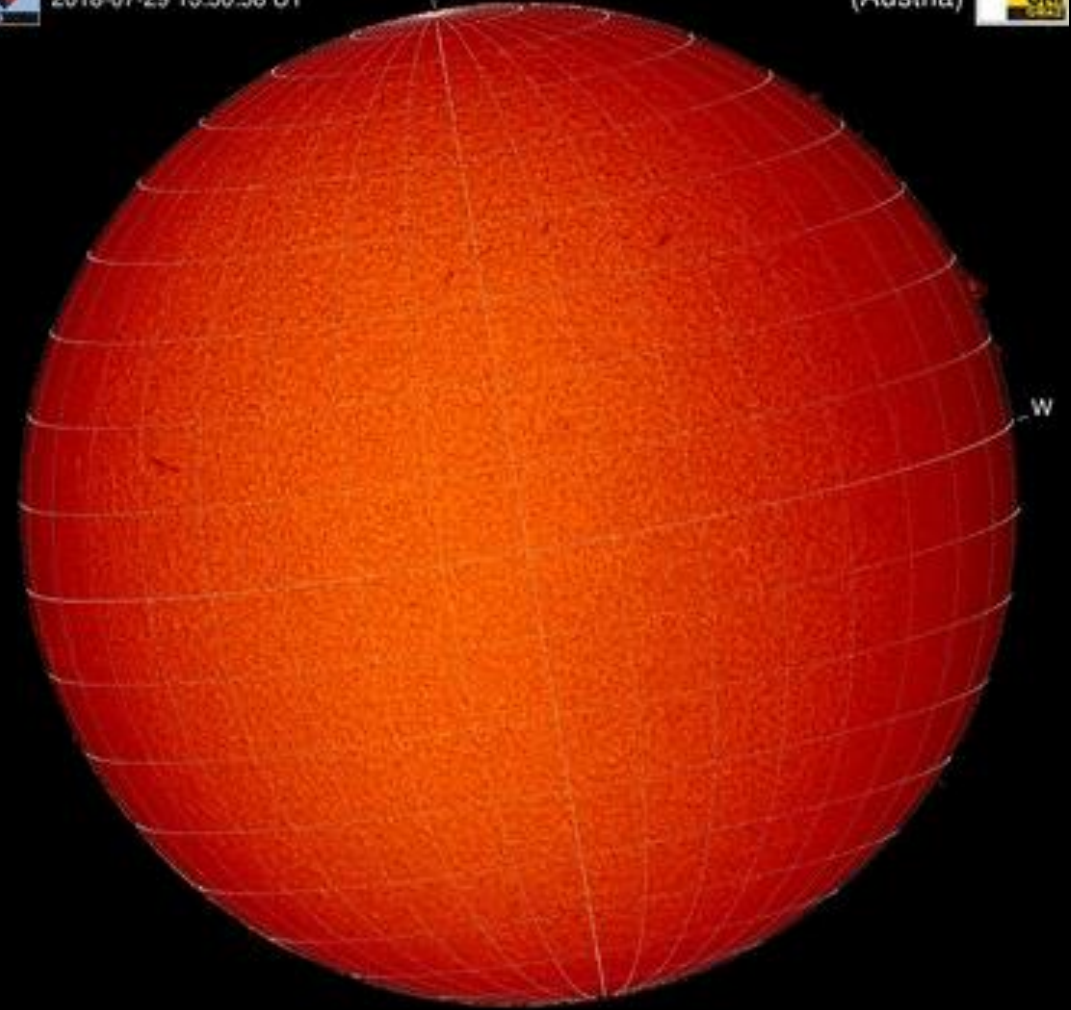


H-alpha 2018-07-29

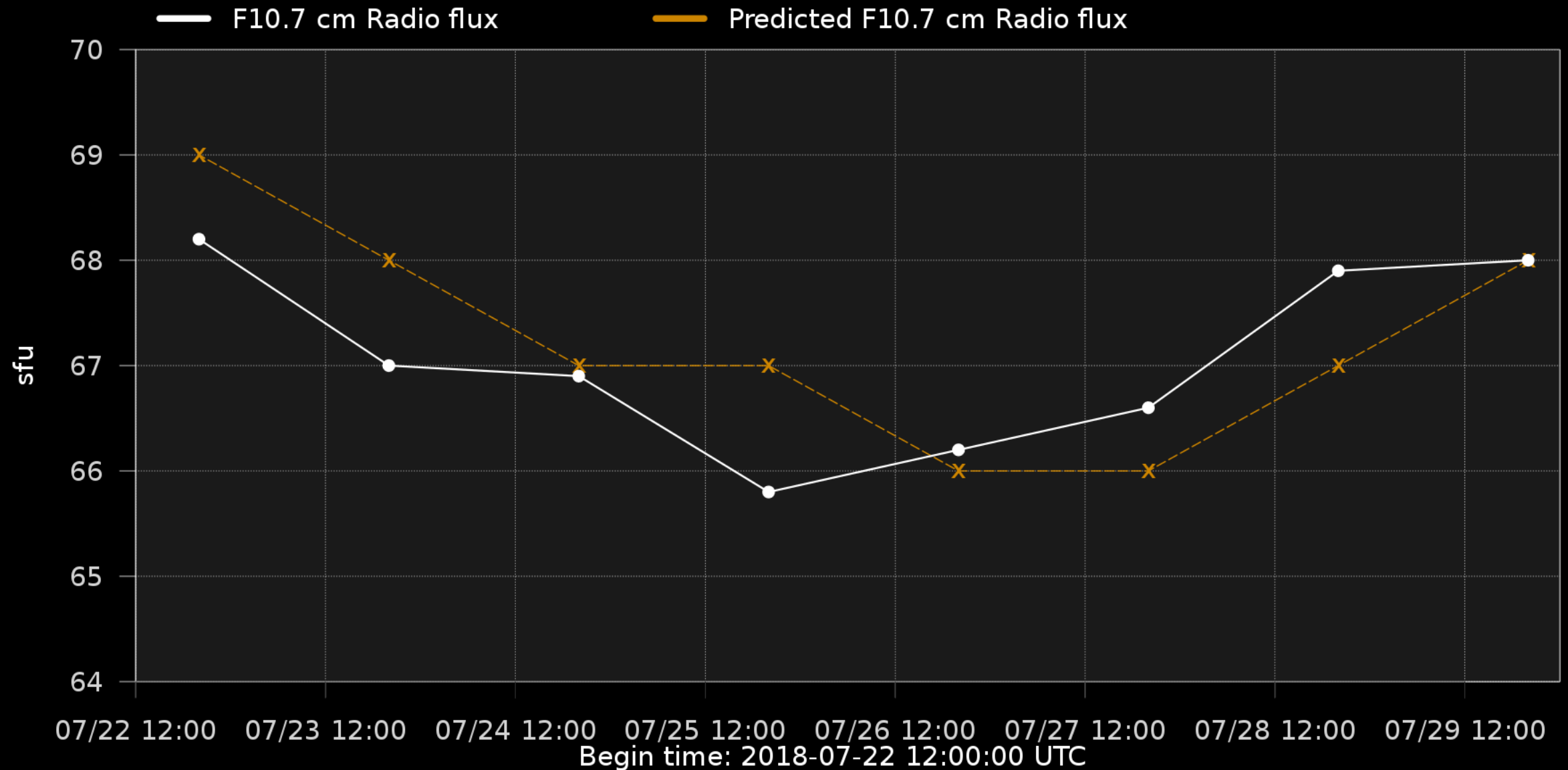


Kanzelhöhe Observatory
2018-07-29 13:50:58 UT

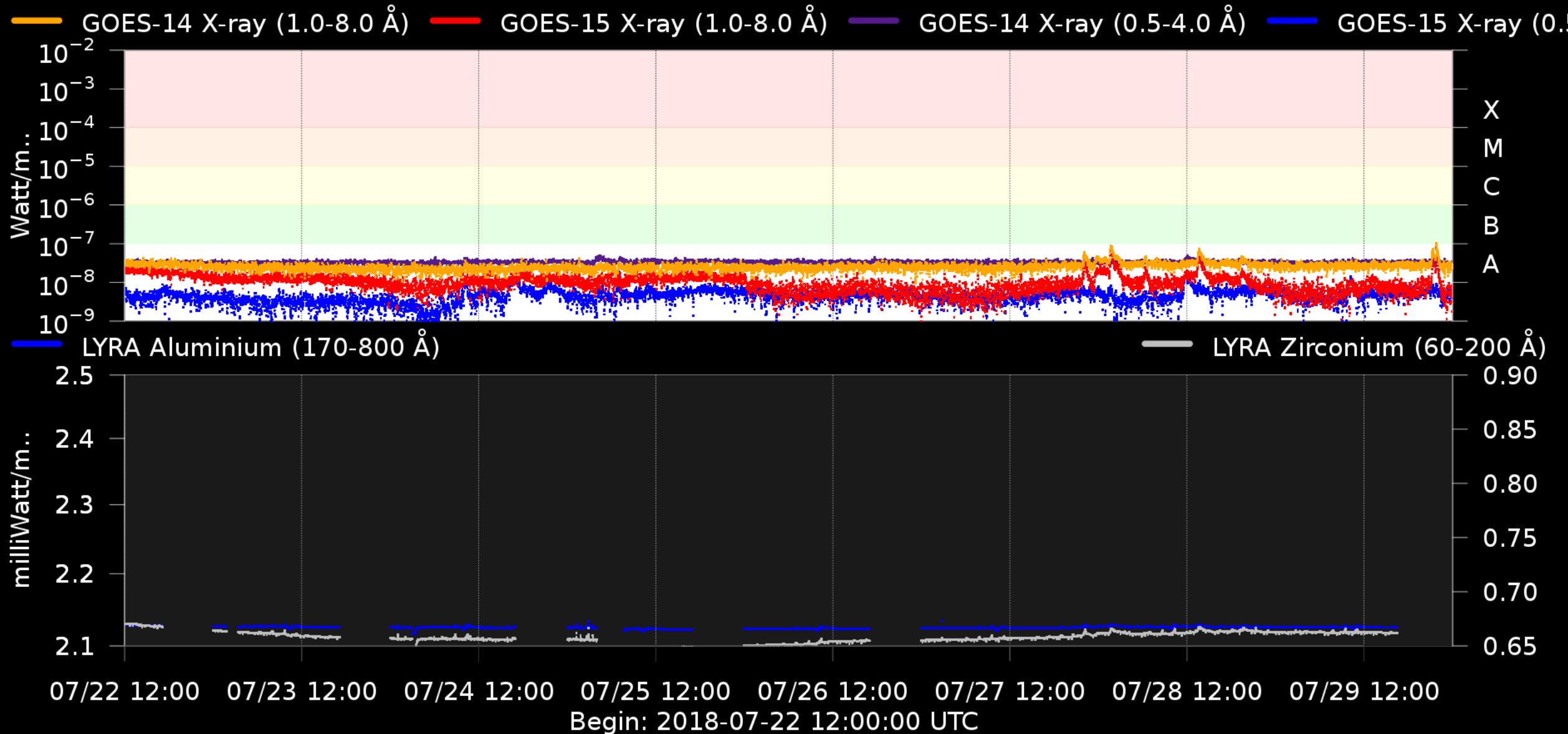
University of Graz
(Austria)



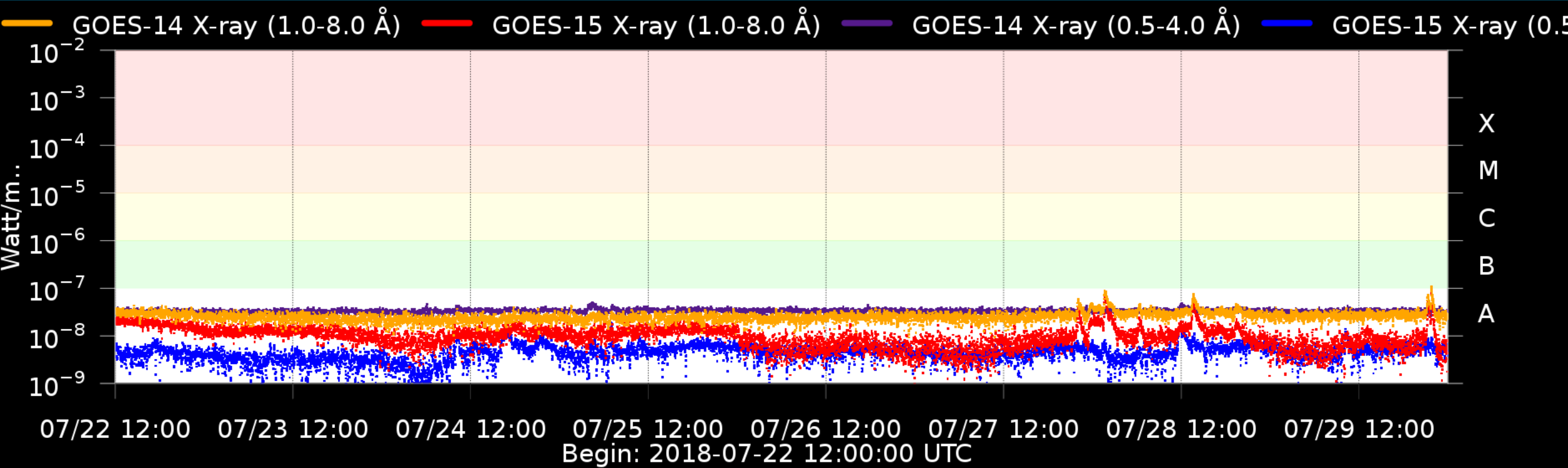
Solar F10.7cm radio flux



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	2018-07-22	2018-07-23	2018-07-24	2018-07-25	2018-07-26	2018-07-27	2018-07-28	2018-07-29
Probability	01 01 01	01 01 01	01 01 01	01 01 01	01 01 01	01 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

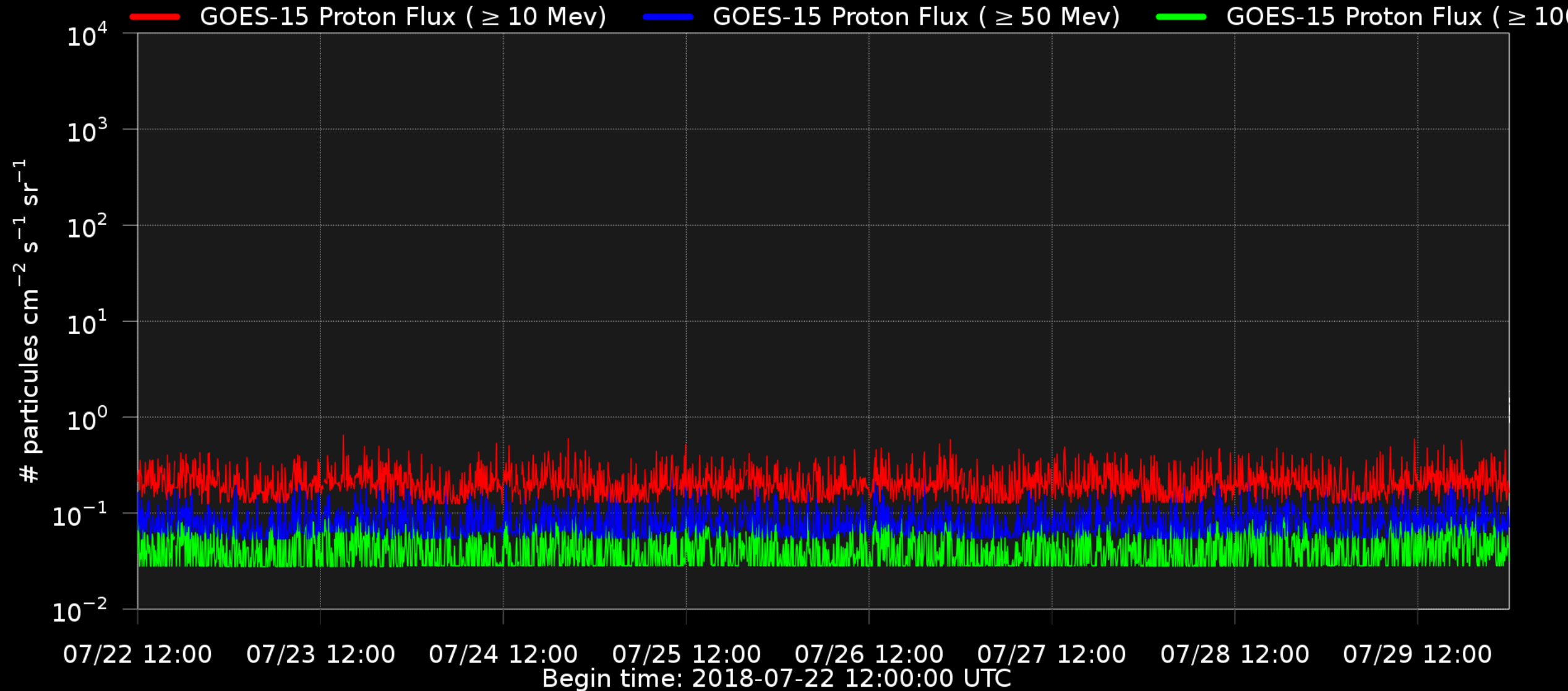
No CMEs detected in
SOHO/LASCO imagery by CACTus

W

N

E

Solar proton flux



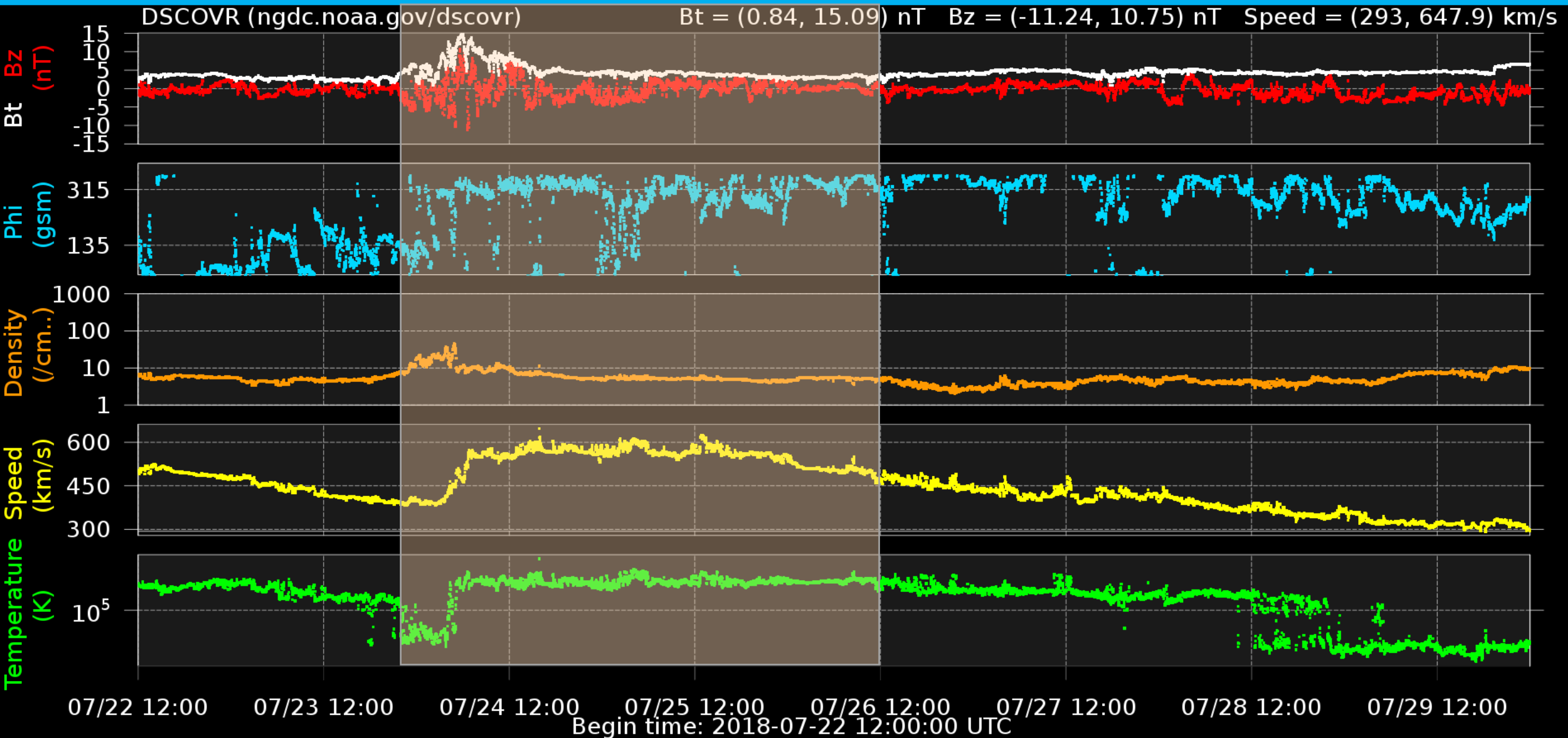
Solar Wind and Geomagnetic Activity



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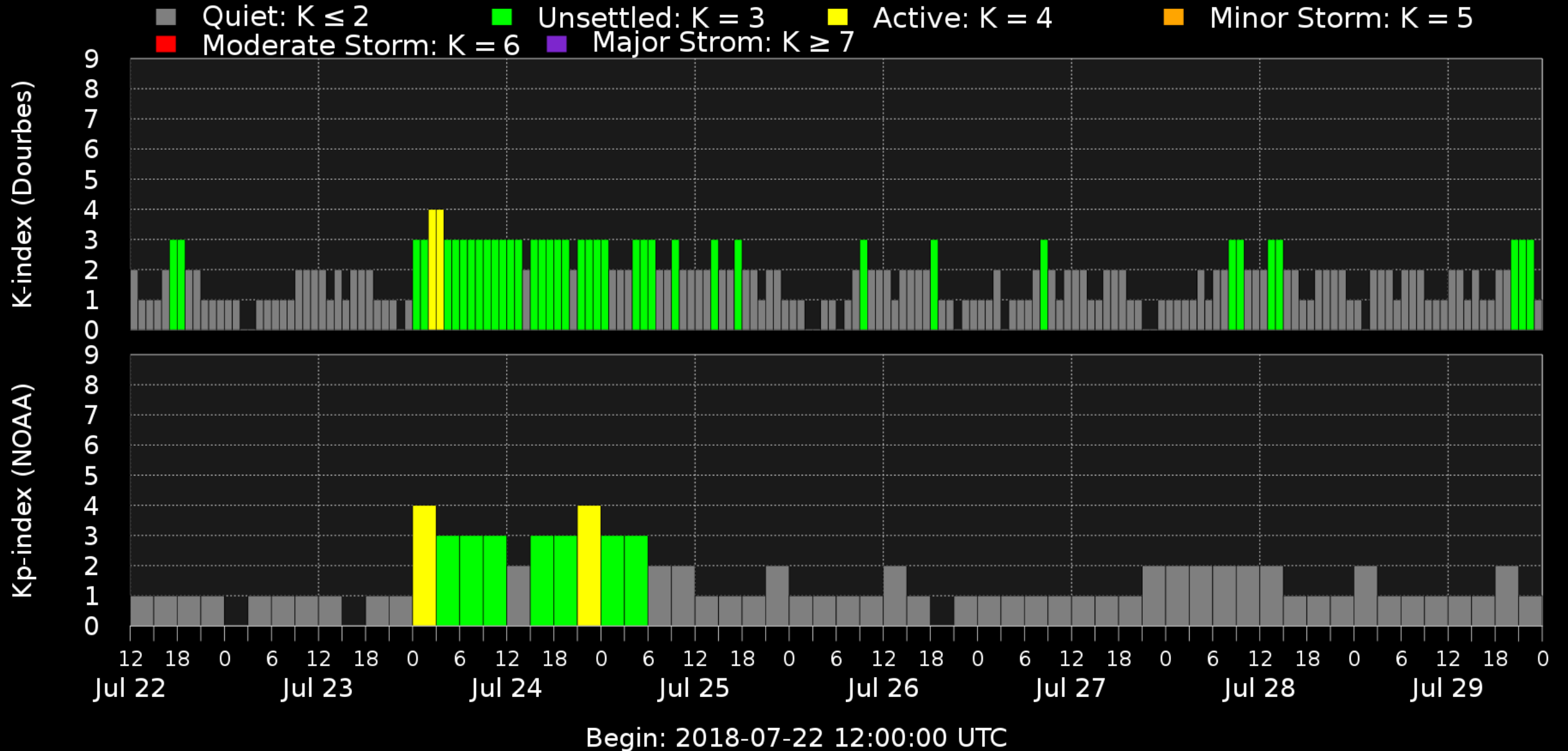
Solar wind parameters (DSCOVR data)



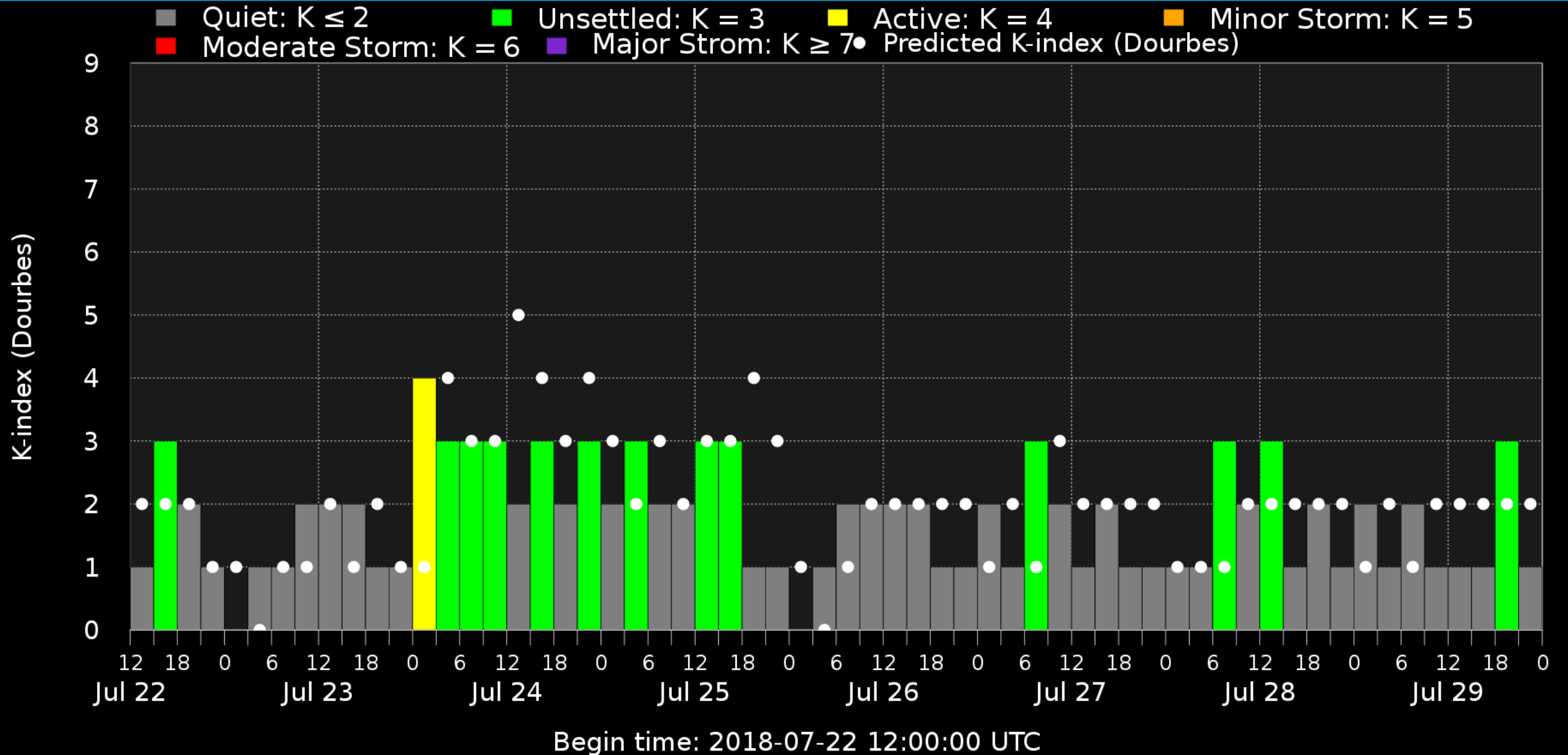
Solar wind parameters & K-index (DSCOVR/Dourbes)



Geomagnetic activity (K-indexes)

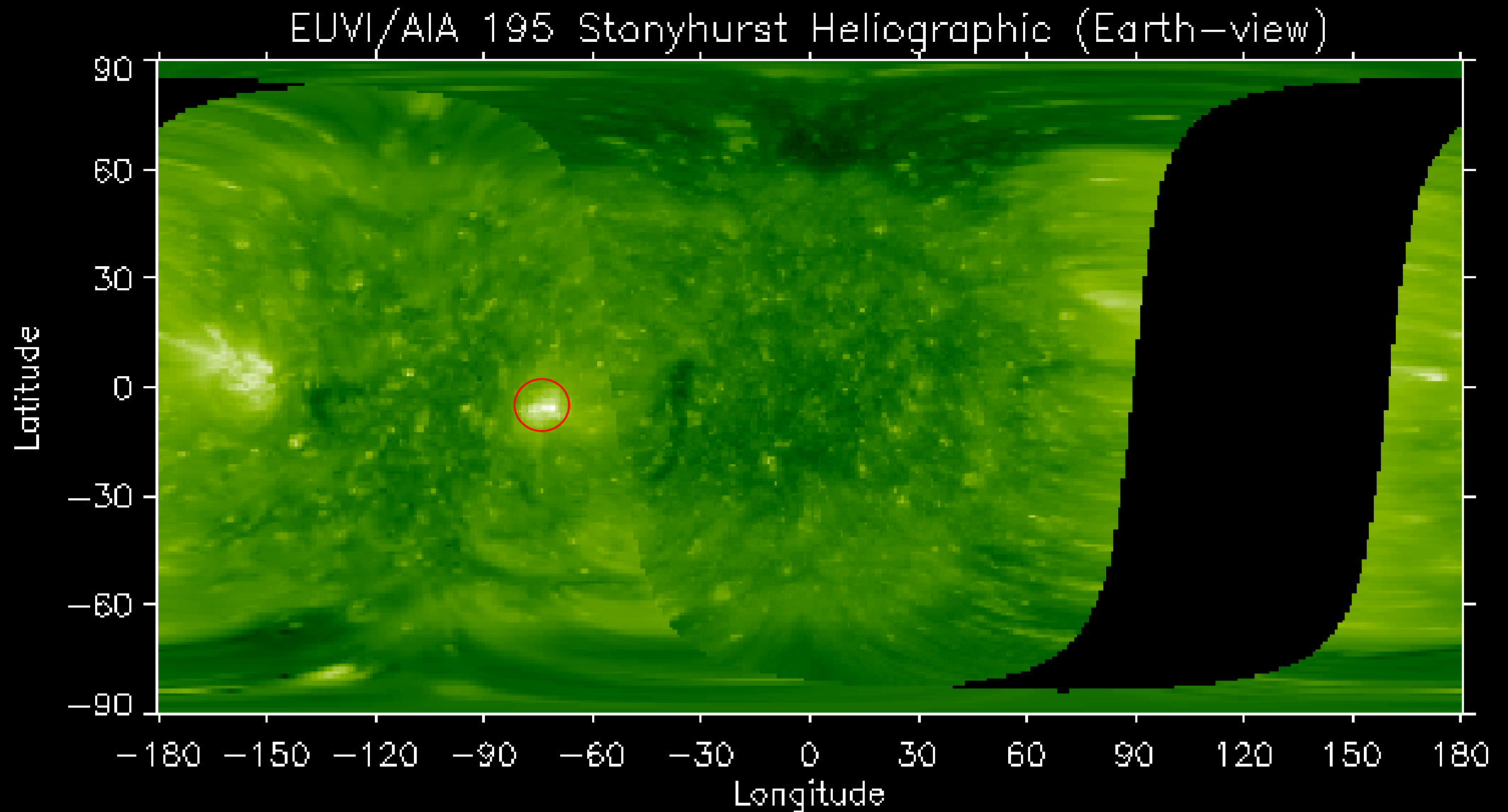


K-Dourbes index

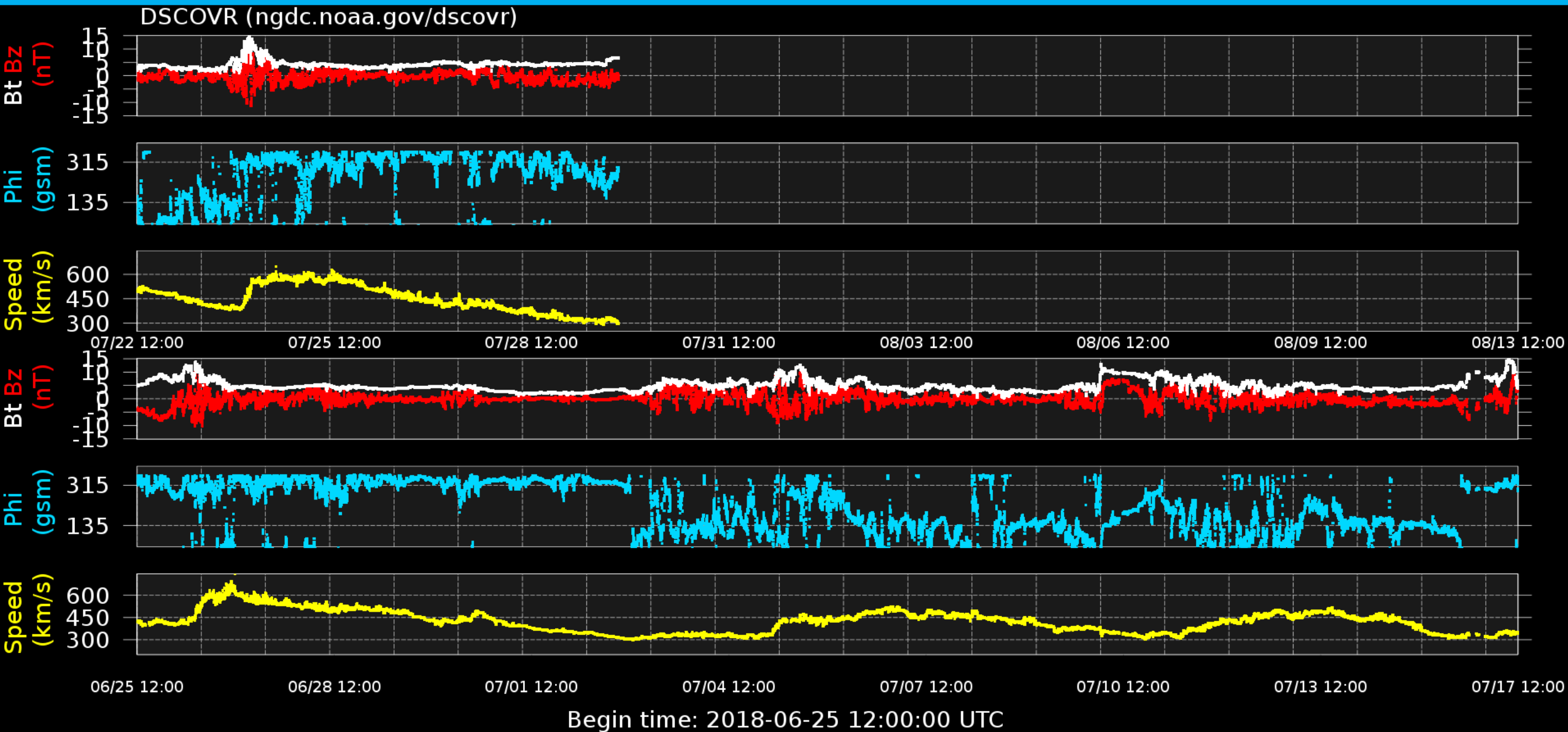


Outlook

Outlook: Solar activity



Outlook: Solar wind



SIDC Space Weather Briefing

See you at our next briefing!

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