

SIDC Space Weather Briefing

21 October 2018 - 28 October 2018

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& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2018-10-21 12:00 UT to 2018-10-28 12:00 UT

Active regions	No Significant ARs
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	NA
CMEs	NA
Proton Events	NA

Solar wind and geomagnetic conditions from 2018-10-21 12:00 UT to 2018-10-28 12:00 UT

Coronal Holes	NA
ICME	NA
SW Conditions	Quiet
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 3

All Quiet Alert: Text and Color to be included

Solar Activity

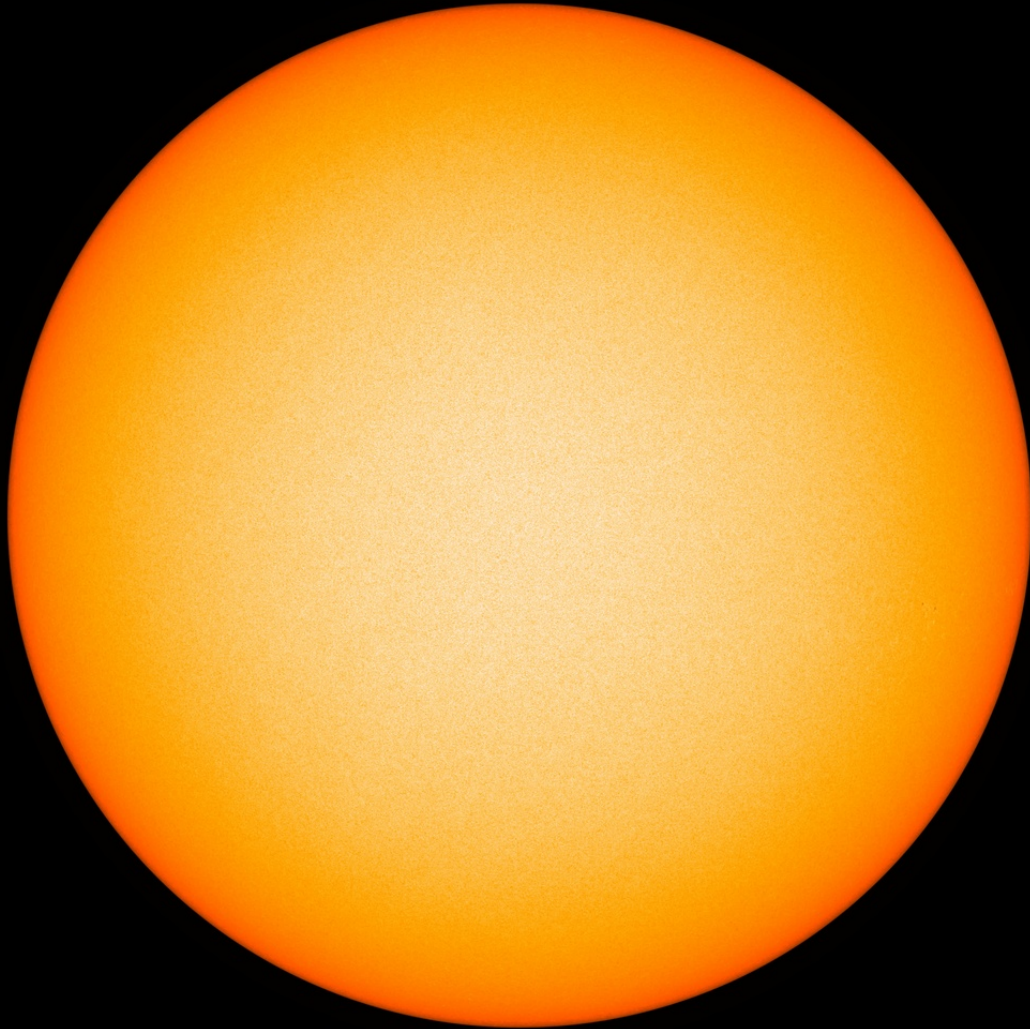


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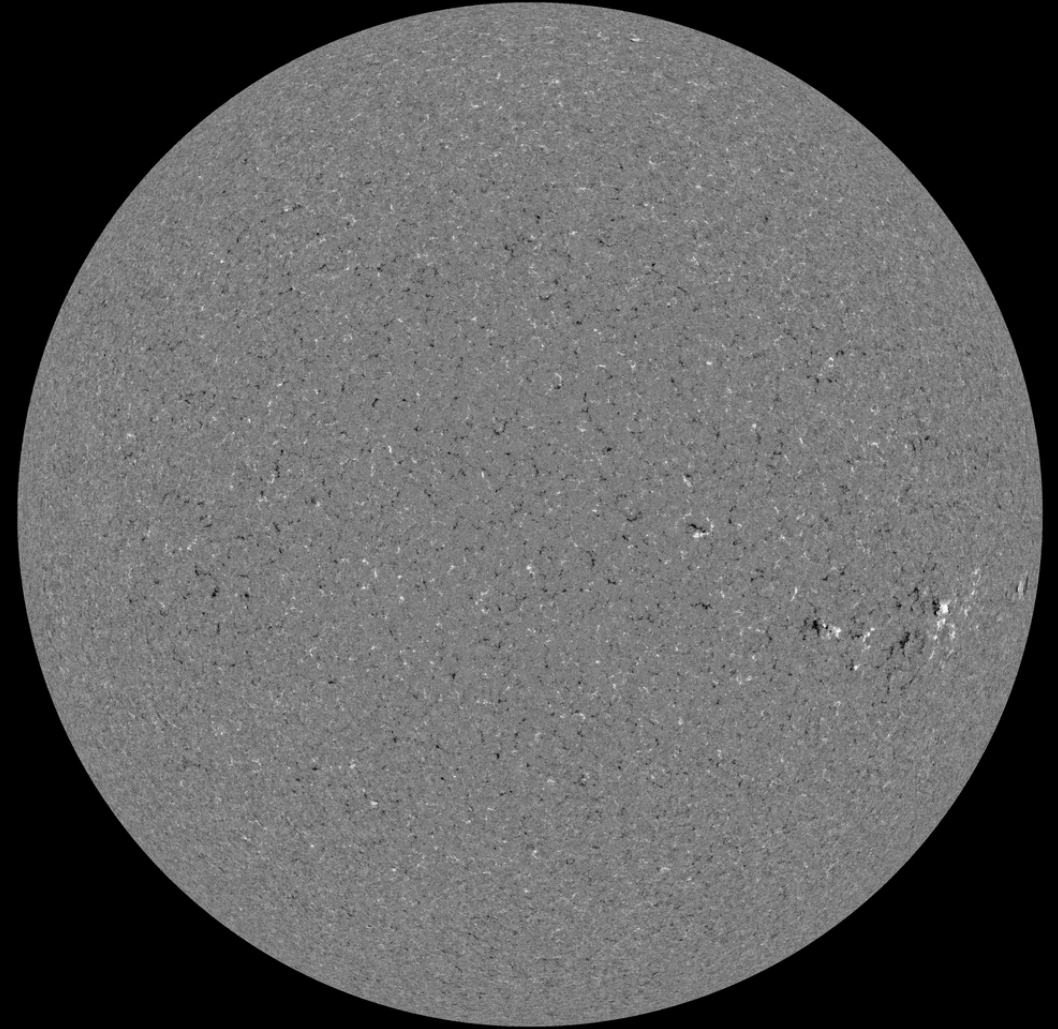
Solar active region - start of the week

SDO/HMI White Light 2018-10-21



SDO/HMI Quick-Look Continuum: 20181021_114500

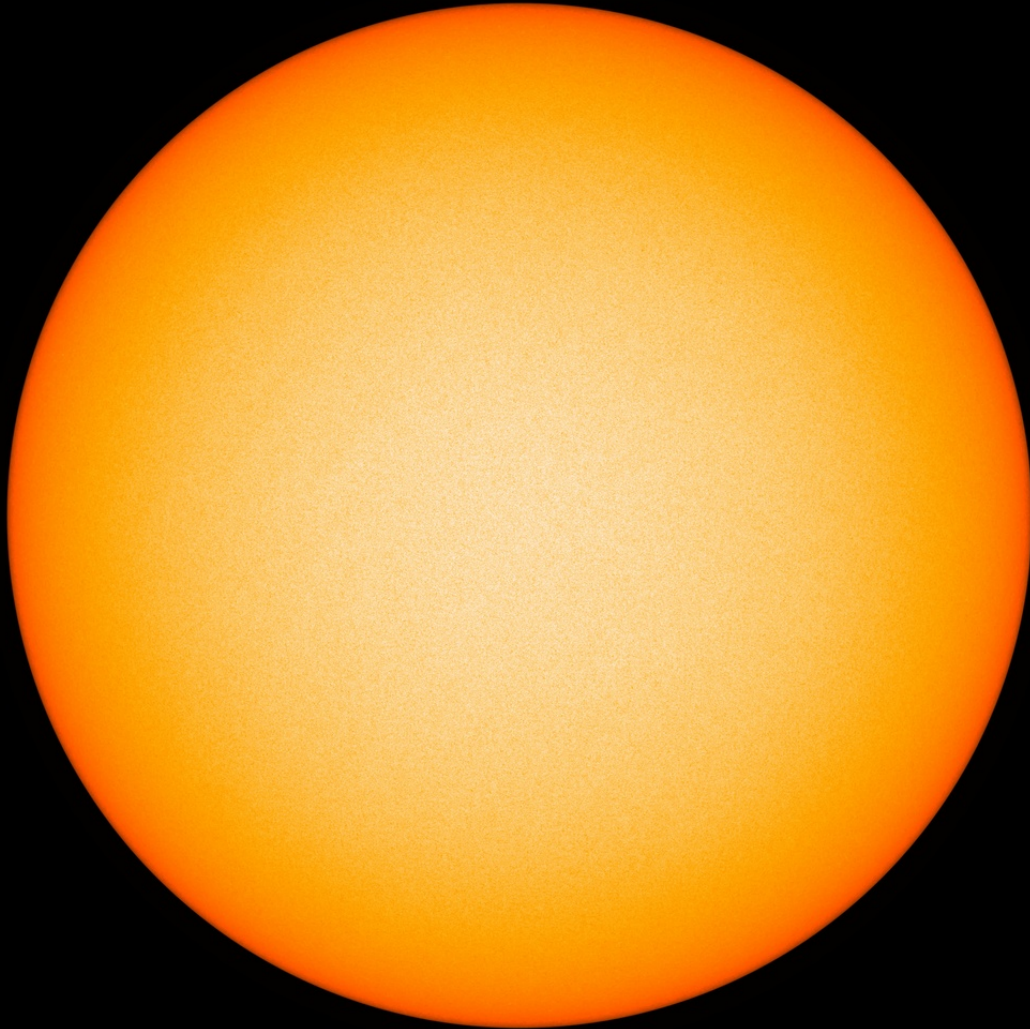
SDO/HMI Magnetogram 2018-10-21



SDO/HMI Quick-Look Magnetogram: 20181021_114500

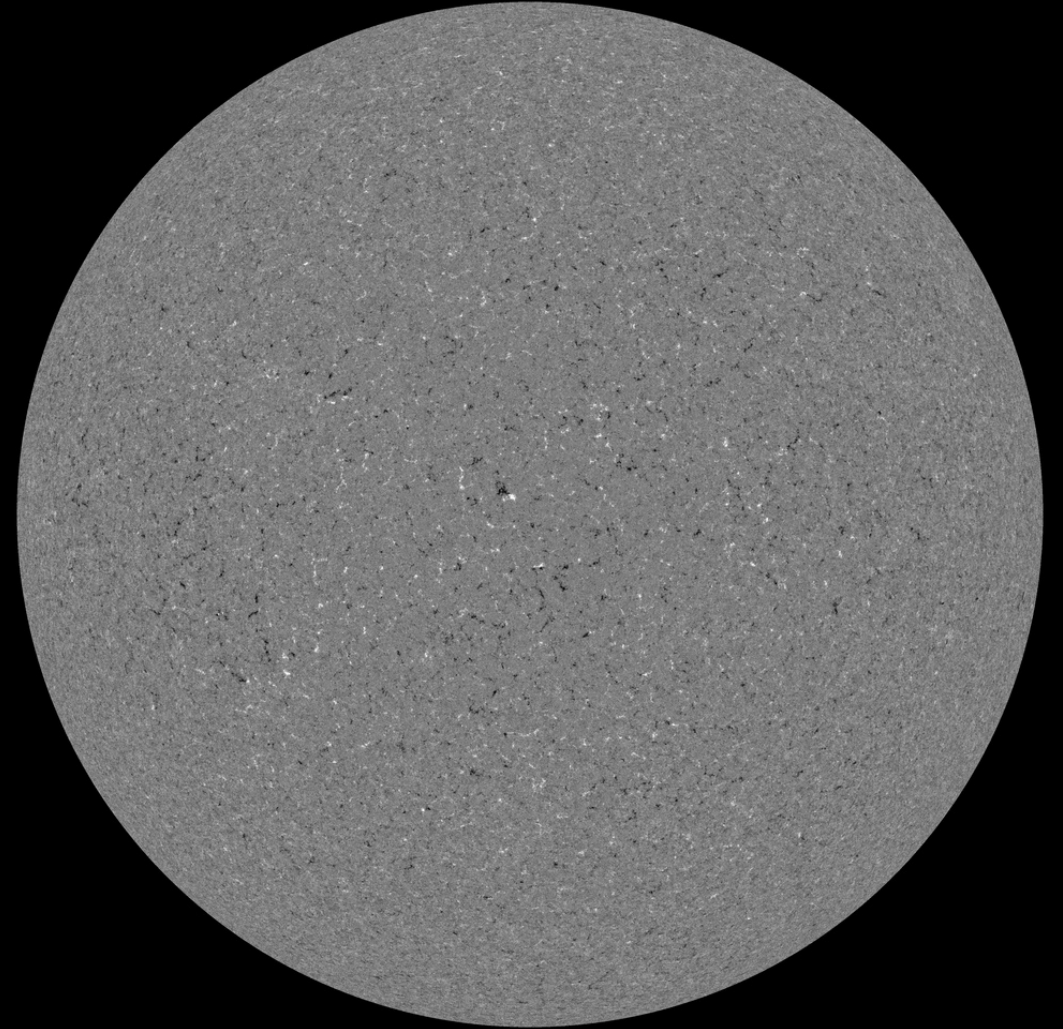
Solar active region - middle of the week

SDO/HMI White Light 2018-10-24



SDO/HMI Quick-Look Continuum: 20181024_114500

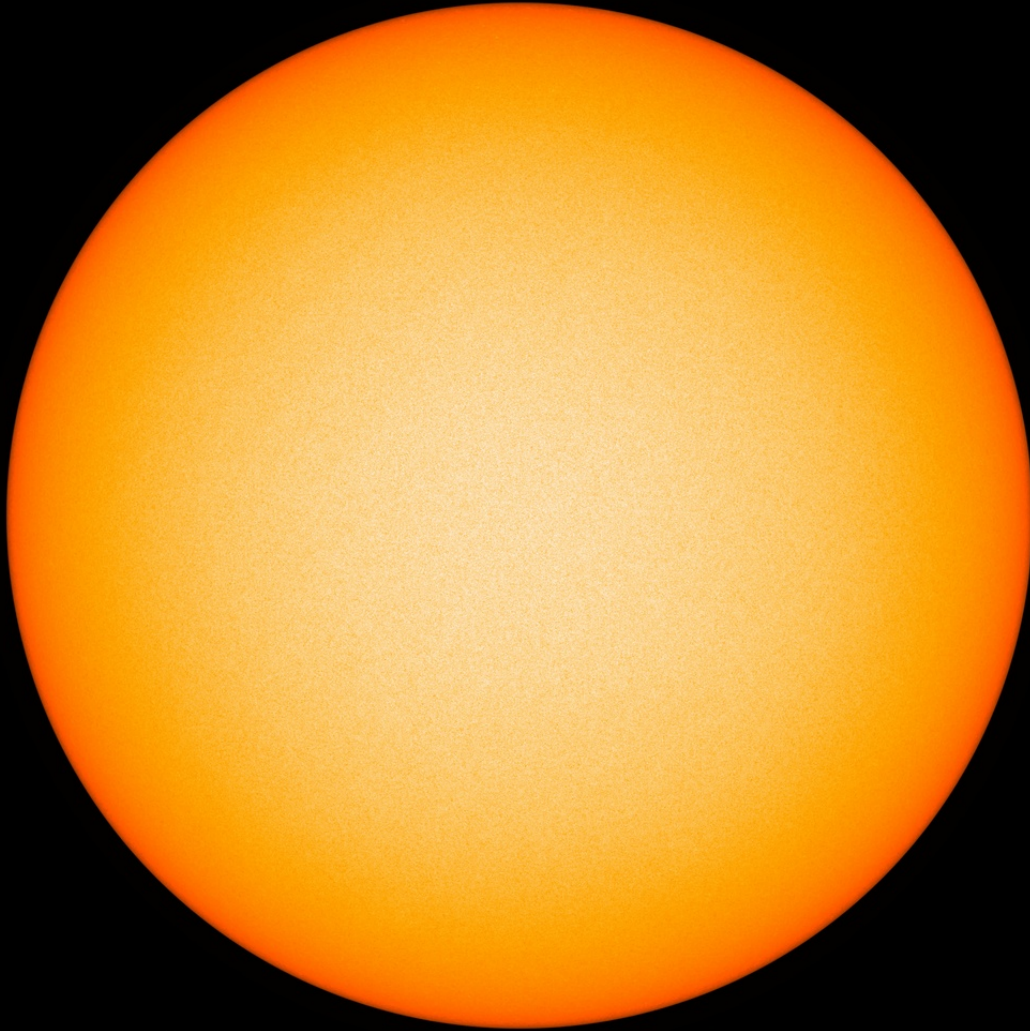
SDO/HMI Magnetogram 2018-10-24



SDO/HMI Quick-Look Magnetogram: 20181024_114500

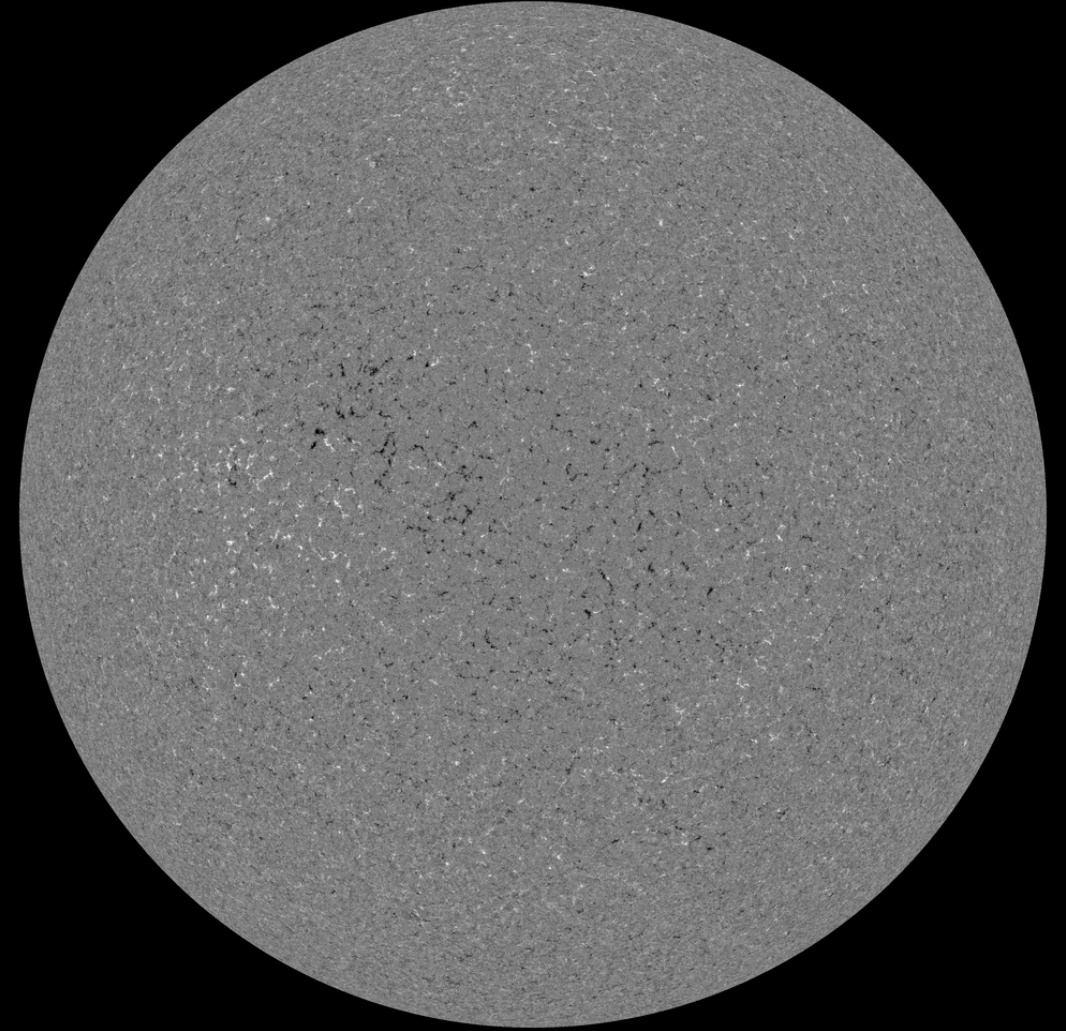
Solar active region - end of the week

SDO/HMI White Light 2018-10-28



SDO/HMI Quick-Look Continuum: 20181028_114500

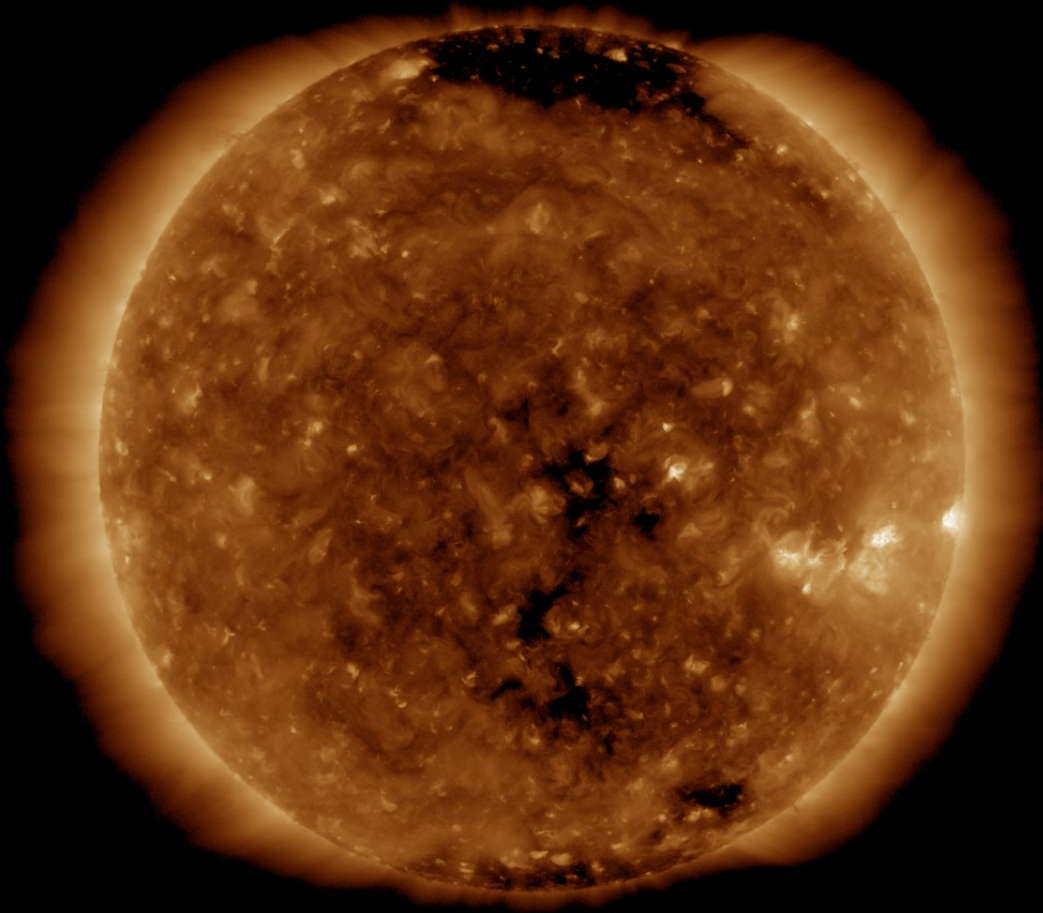
SDO/HMI Magnetogram 2018-10-28



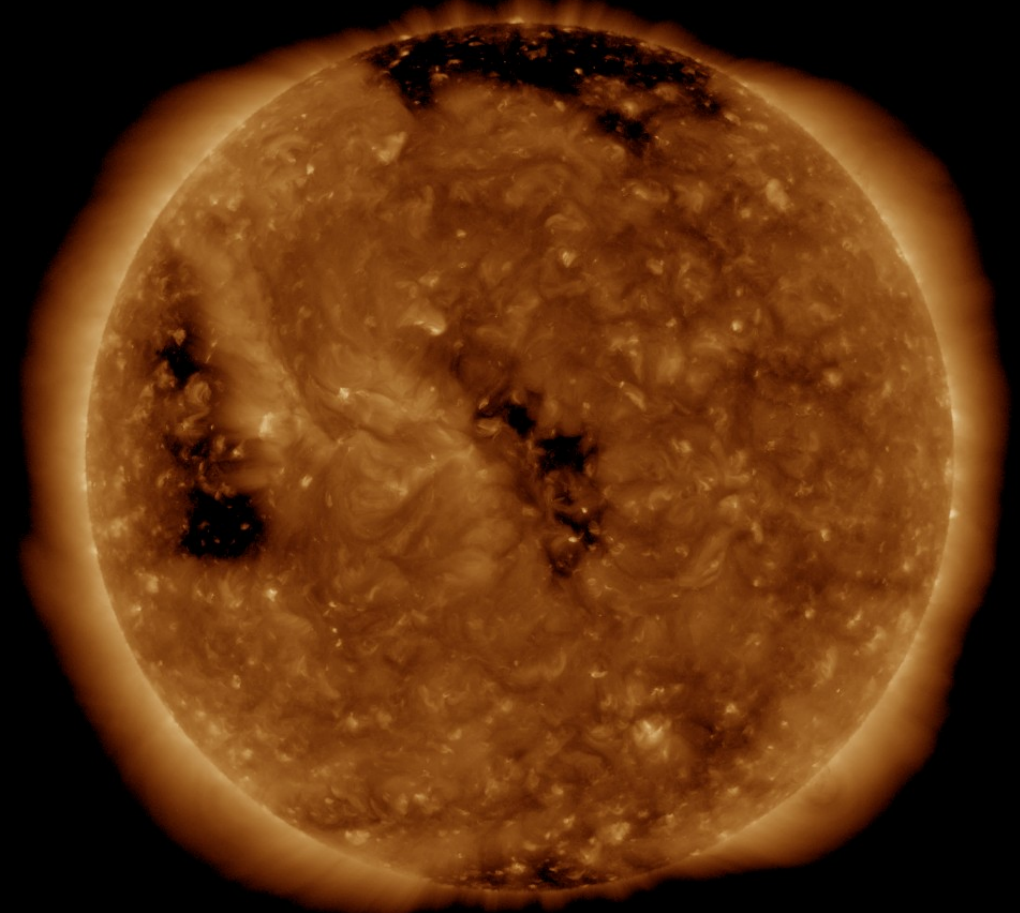
SDO/HMI Quick-Look Magnetogram: 20181028_114500

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2018-10-21



SDO/AIA 19.3 nm 2018-10-28



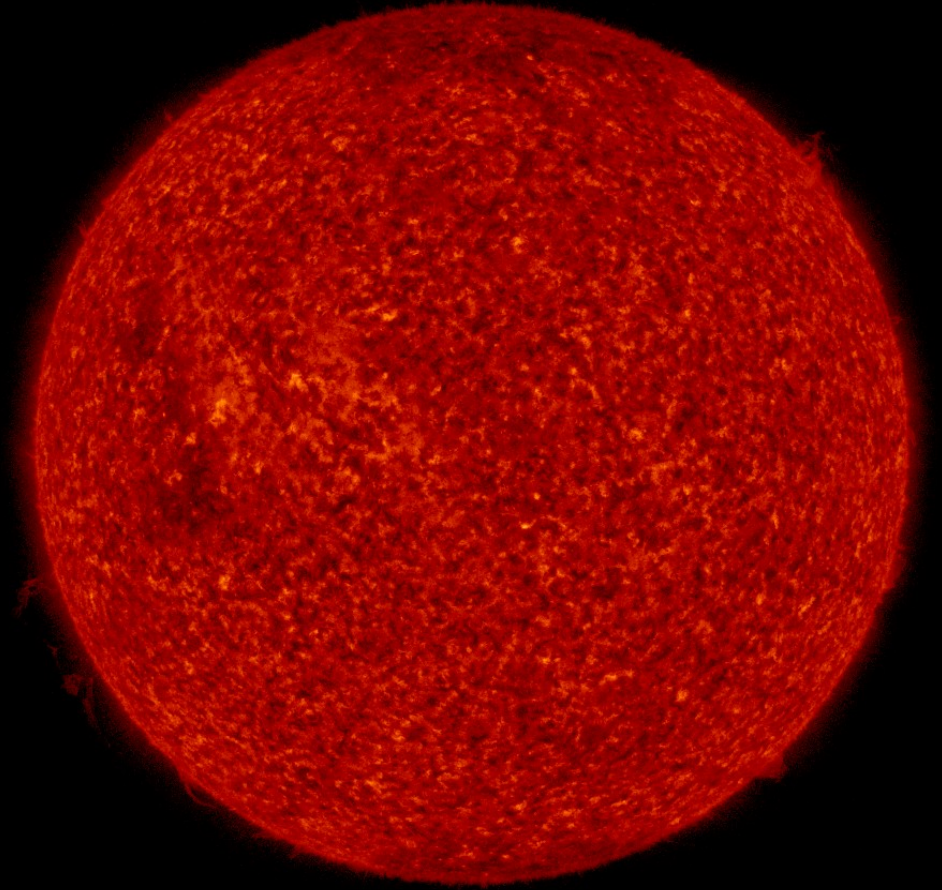
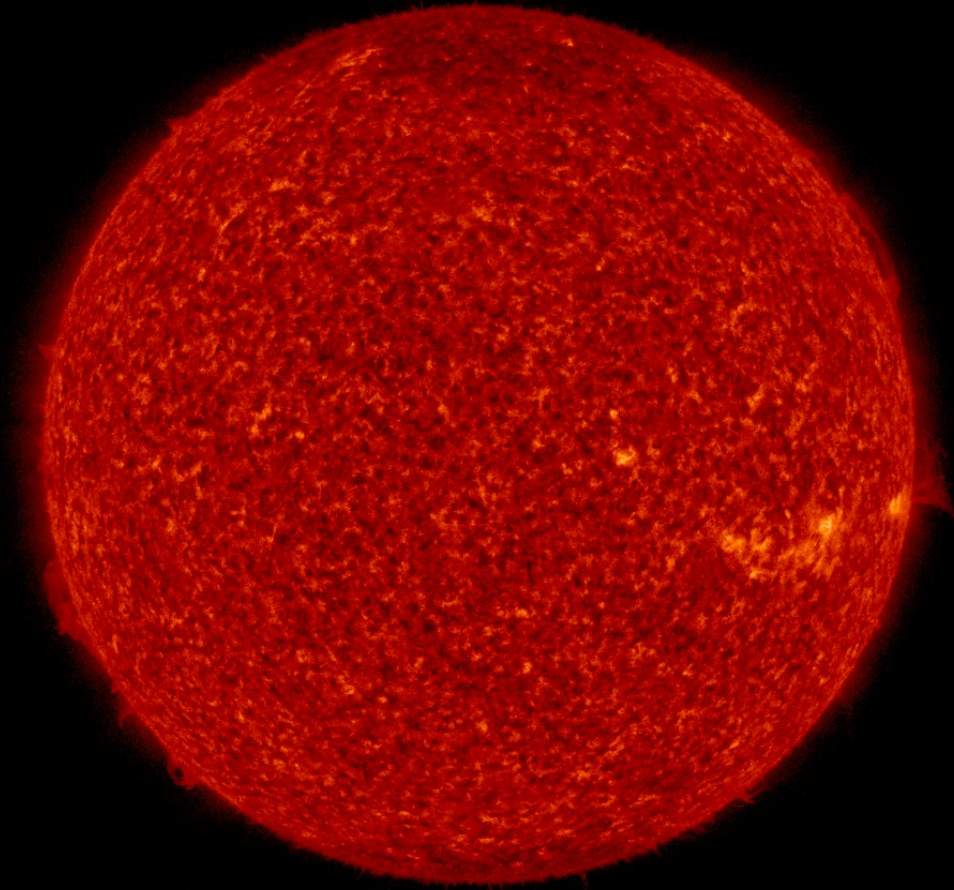
SDO/AIA 193 2018-10-21 12:09:53 UT

SDO/AIA 193 2018-10-28 12:11:05 UT

Solar active region & Filament

SDO/AIA 30.4 nm 2018-10-21

SDO/AIA 30.4 nm 2018-10-28



SDO/AIA 304 2018-10-21 12:13:06 UT

SDO/AIA 304 2018-10-28 12:14:06 UT

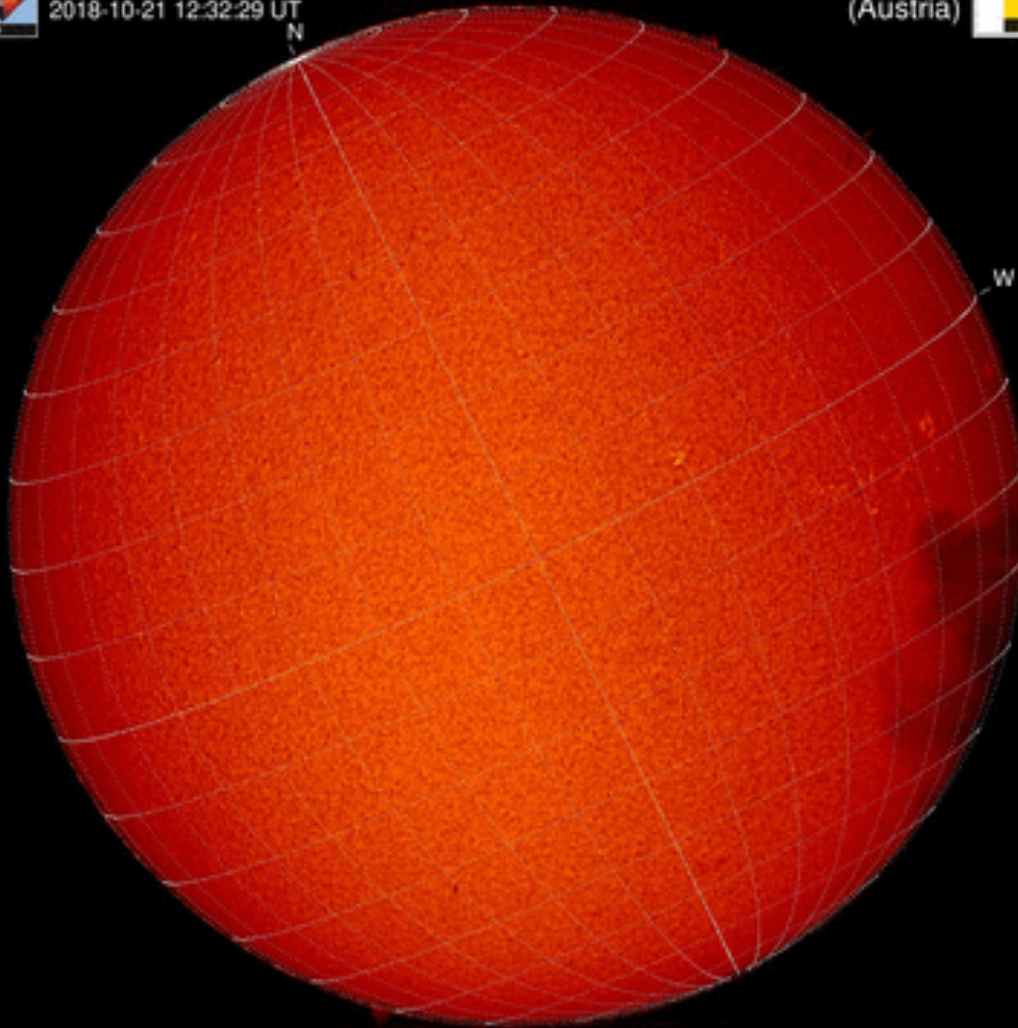
Filament & Filament eruption

H-alpha 2018-10-21



Kanzelhöhe Observatory
2018-10-21 12:32:29 UT

University of Graz
(Austria)

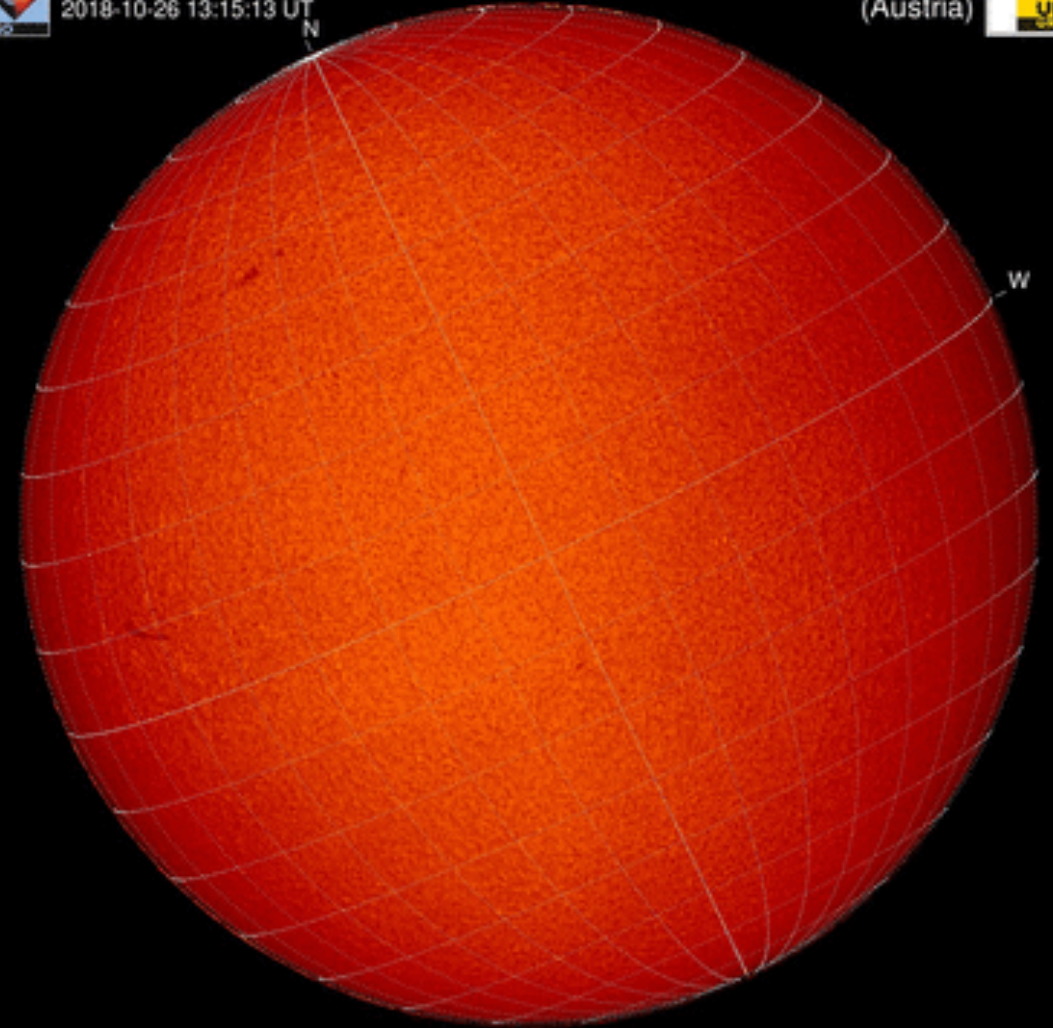


H-alpha 2018-10-28

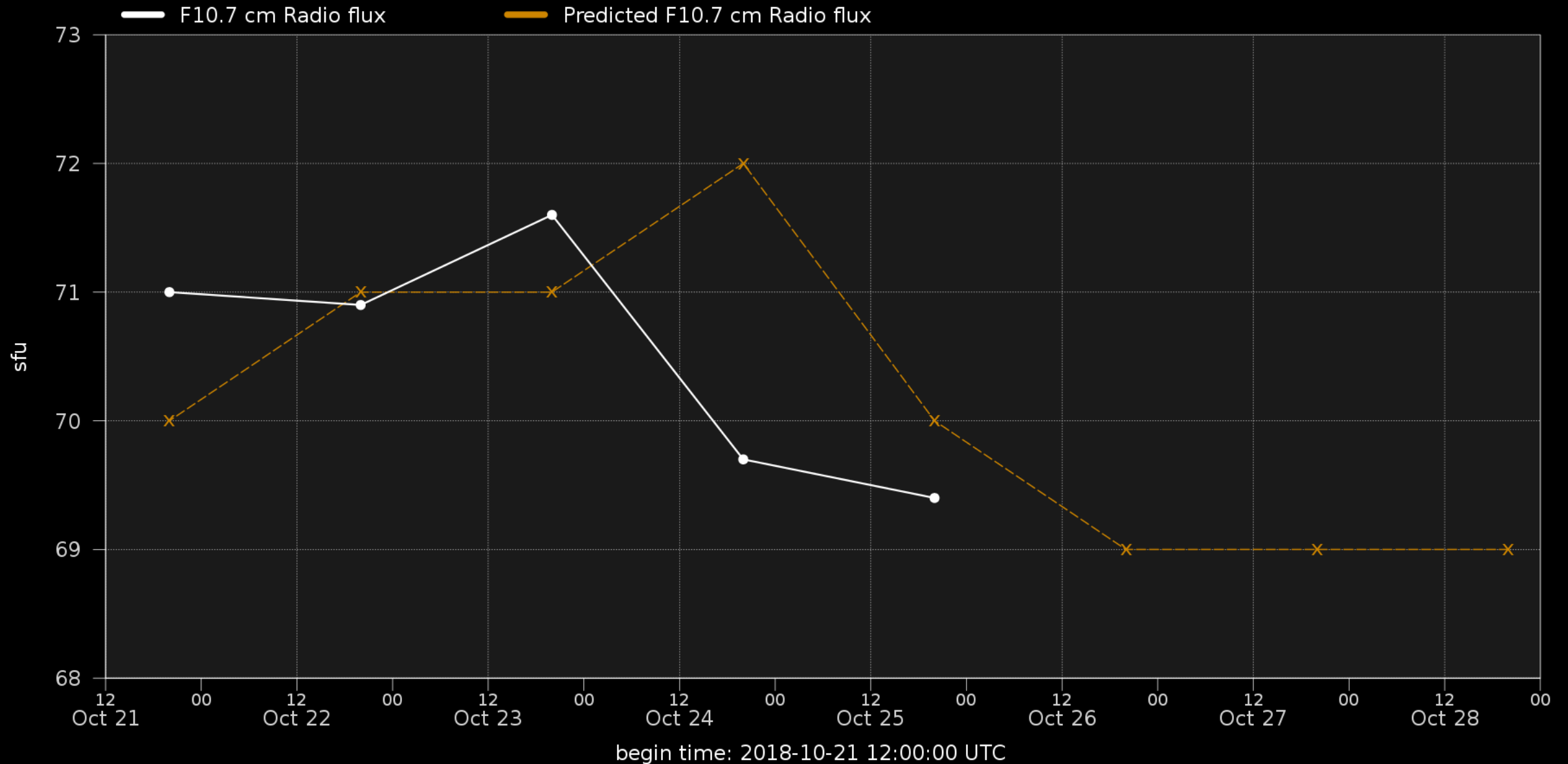


Kanzelhöhe Observatory
2018-10-26 13:15:13 UT

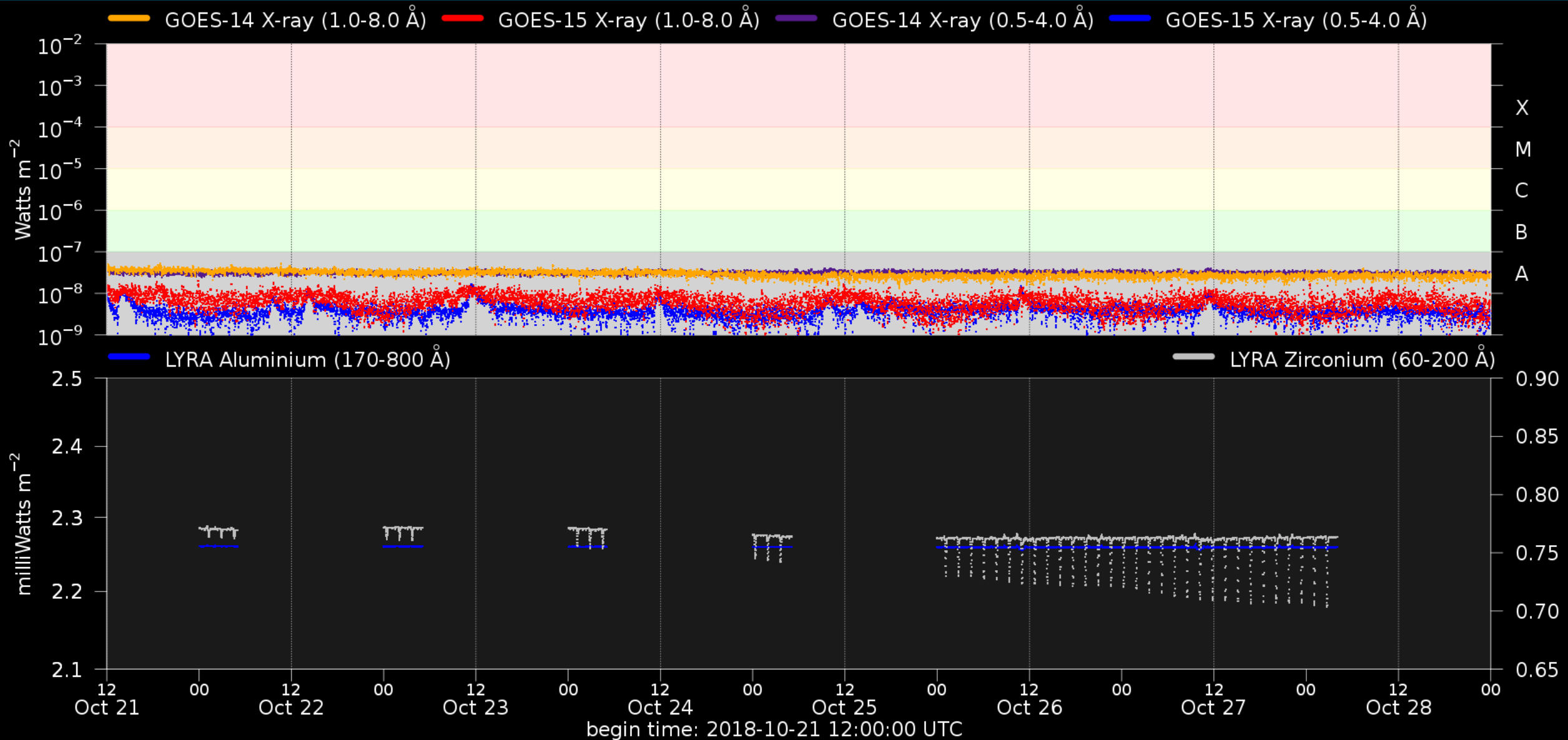
University of Graz
(Austria)



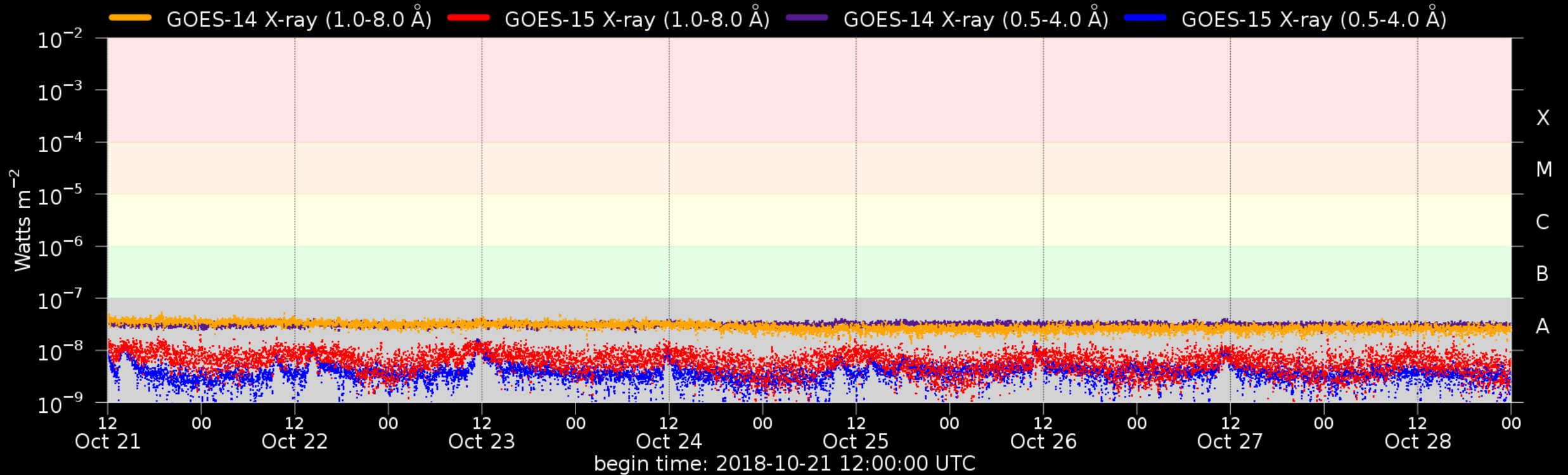
Solar F10.7cm radio flux



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	2018-10-21	2018-10-22	2018-10-23	2018-10-24	2018-10-25	2018-10-26	2018-10-27	2018-10-28
Probability	--- 05 01 01	--- 05 01 01	--- 05 01 01	--- 05 01 01	--- 05 01 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

No CMES were recorded

S

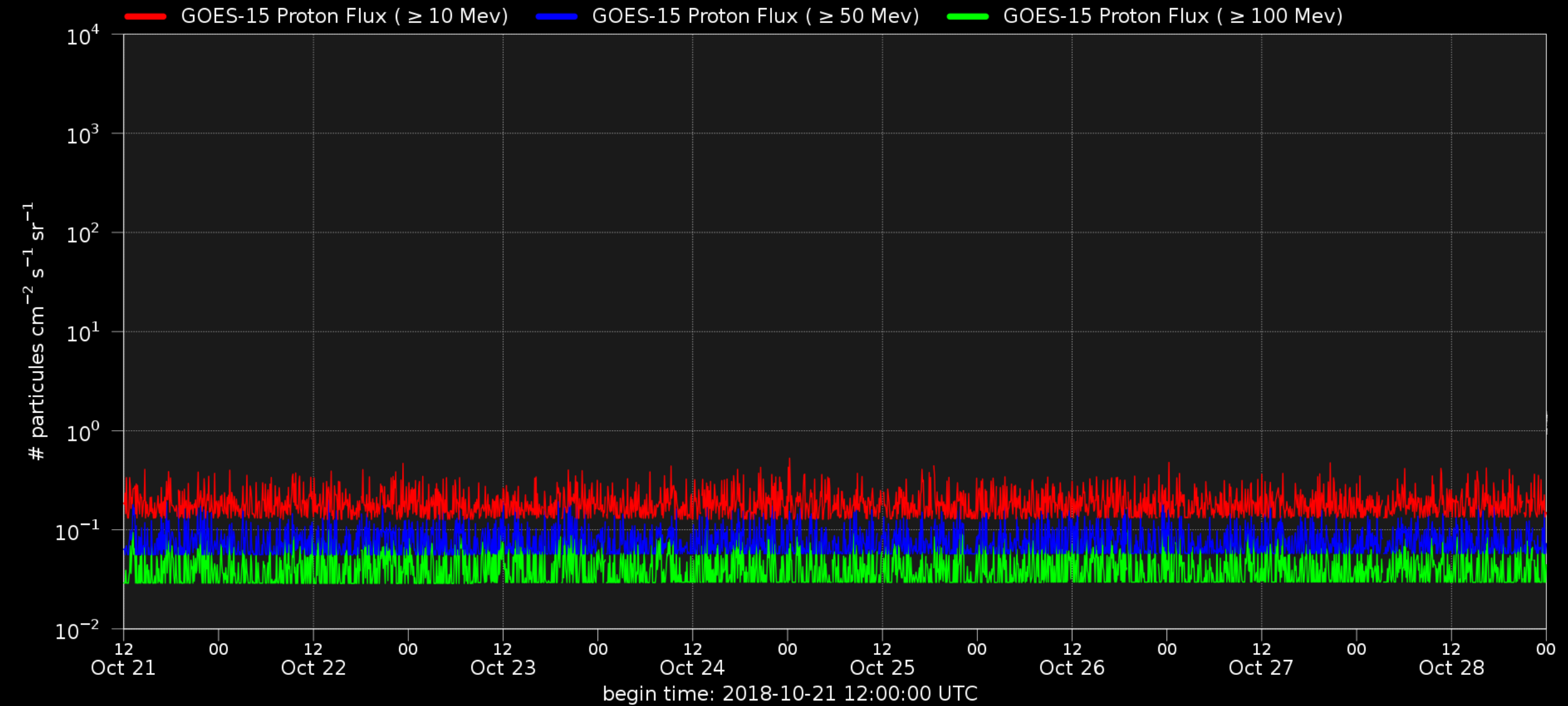
W

N

E

19:24 10/24
15:16 10/24
11:36 10/24
05:24 10/24
02:00 10/24
22:01 10/23
16:36 10/22
12:24 10/22
09:48 10/22
06:42 10/22
04:00 10/22
00:48 10/22
21:24 10/21
18:30 10/21
15:36 10/21
12:24 10/21
09:24 10/21
06:36 10/21
03:24 10/21
00:00 10/21
20:48 10/20
18:12 10/20
15:12 10/20
11:48 10/20
08:48 10/20
06:00 10/20
03:12 10/20
23:48 10/19
20:36 10/19
18:00 10/19
15:12 10/19
11:54 10/19
08:24 10/19
05:00 10/19
00:24 10/19
21:12 10/18
17:48 10/18
14:48 10/18
11:00 10/18
08:24 10/18
06:00 10/18
03:12 10/18
00:00 10/18

Solar proton flux

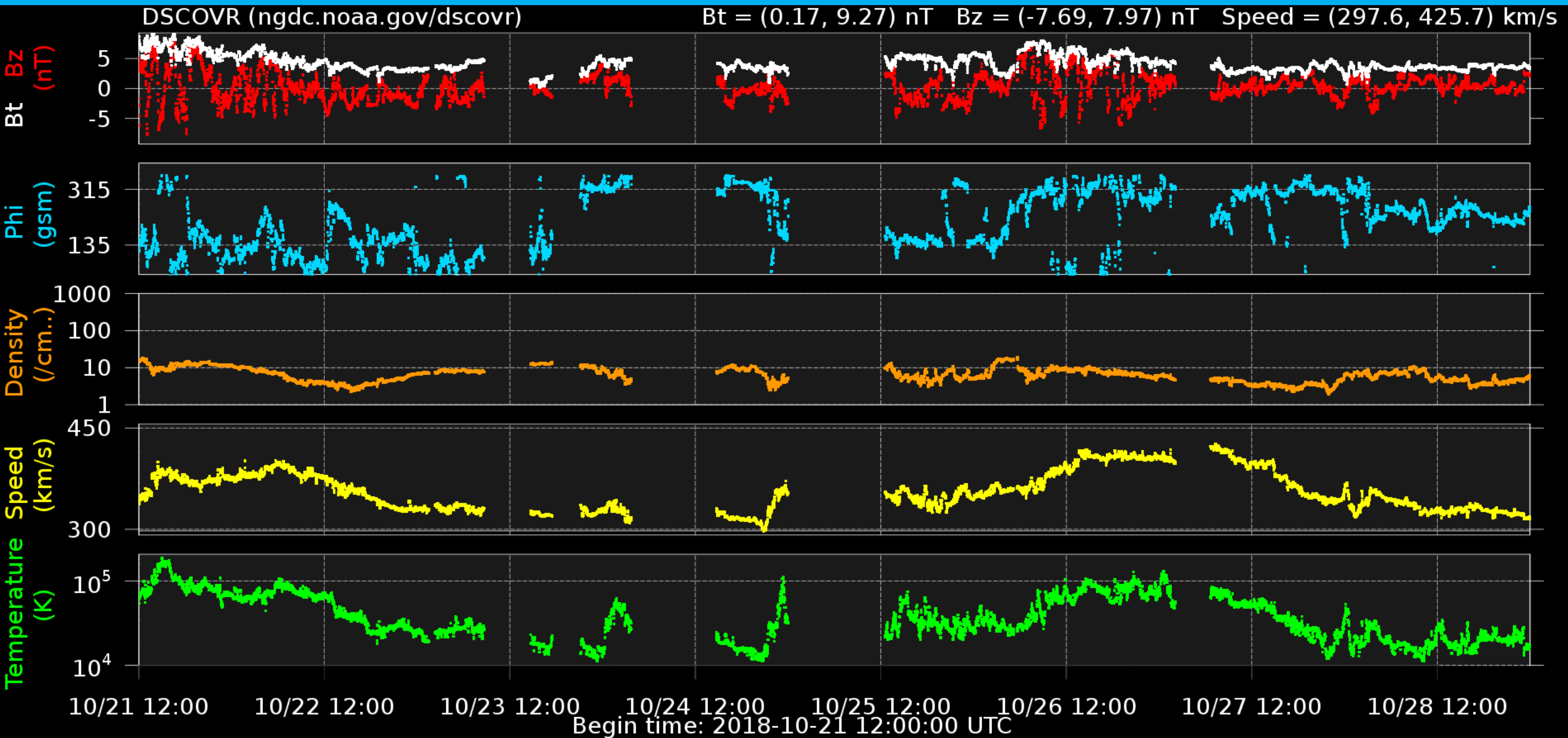


Solar Wind and Geomagnetic Activity

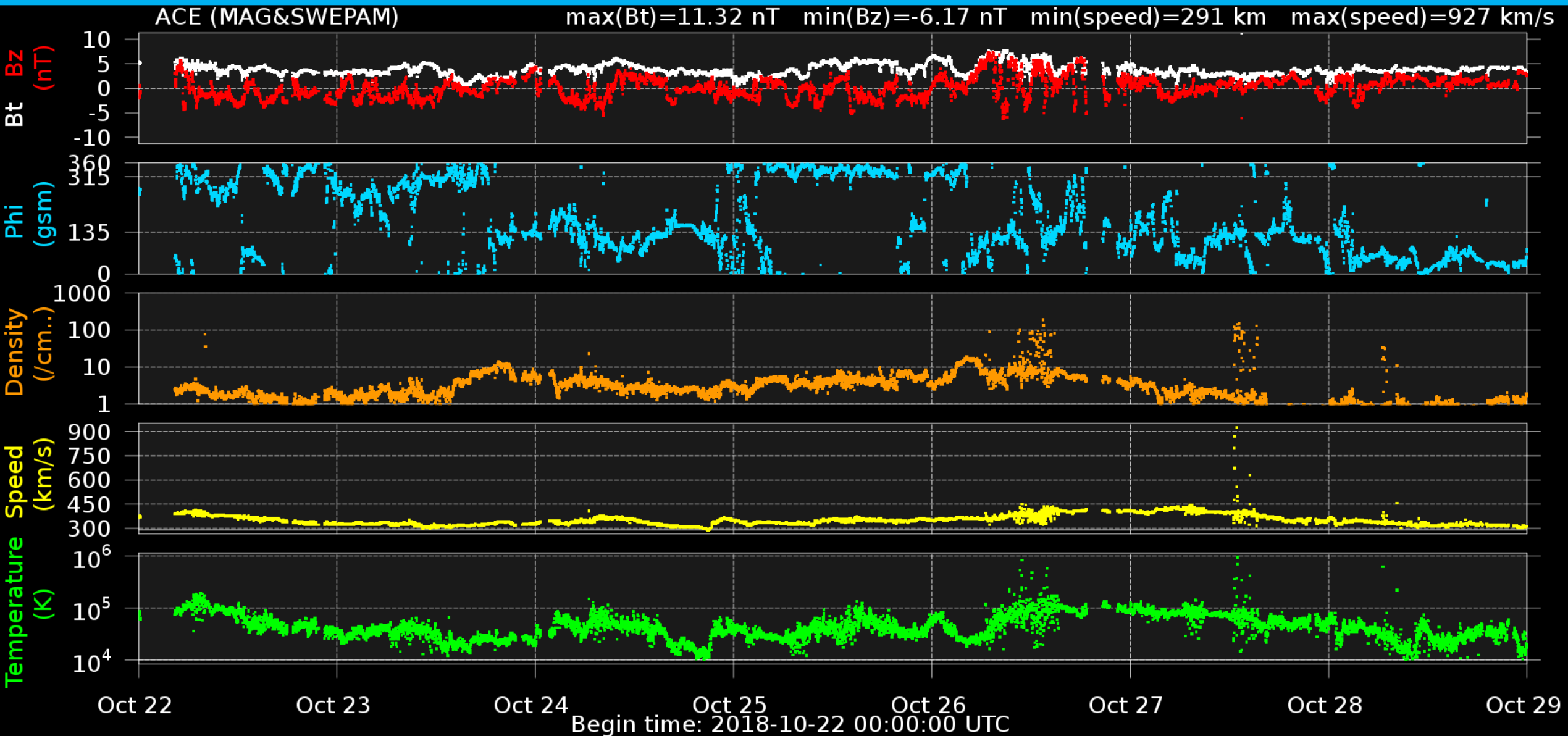


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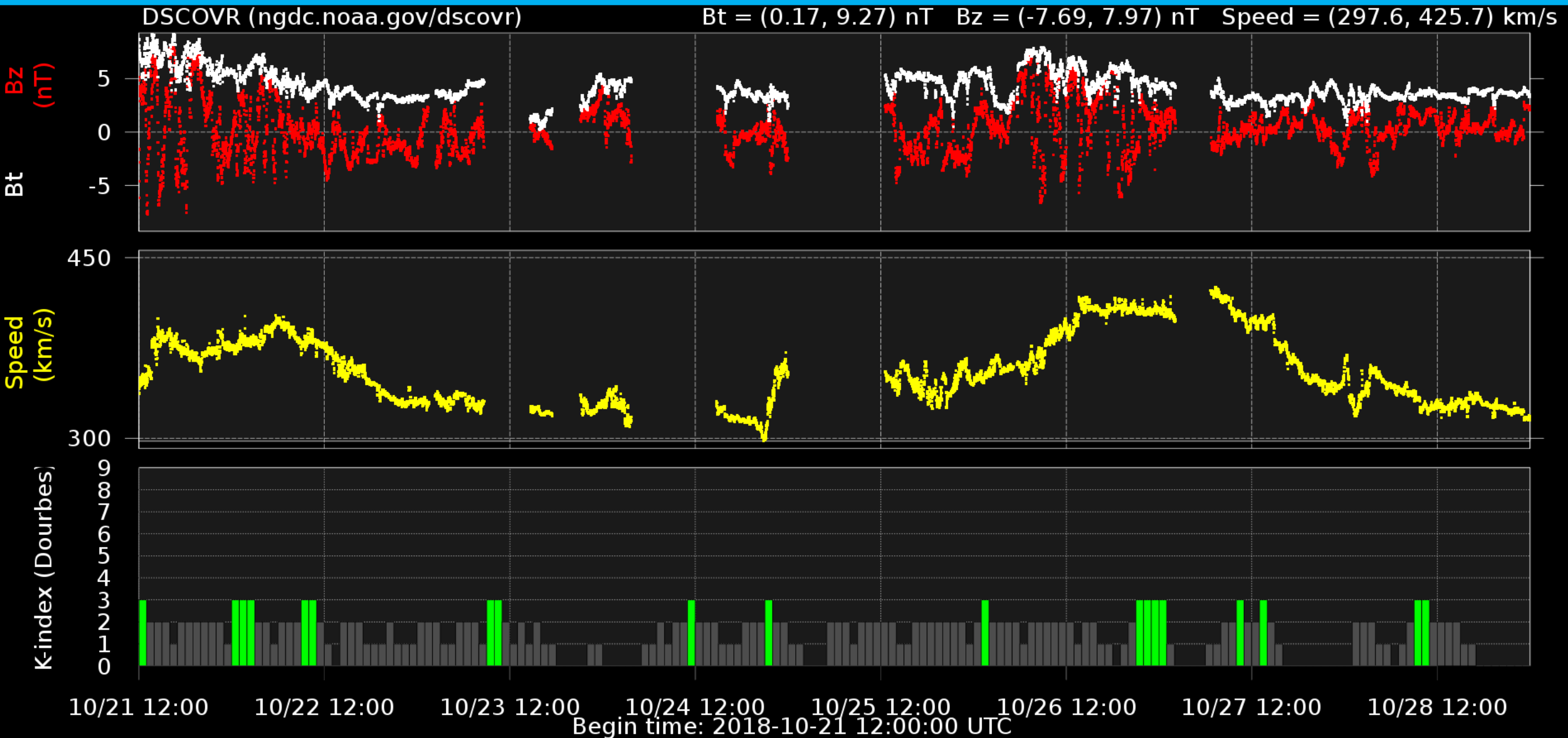
Solar wind parameters (DSCOVR data)



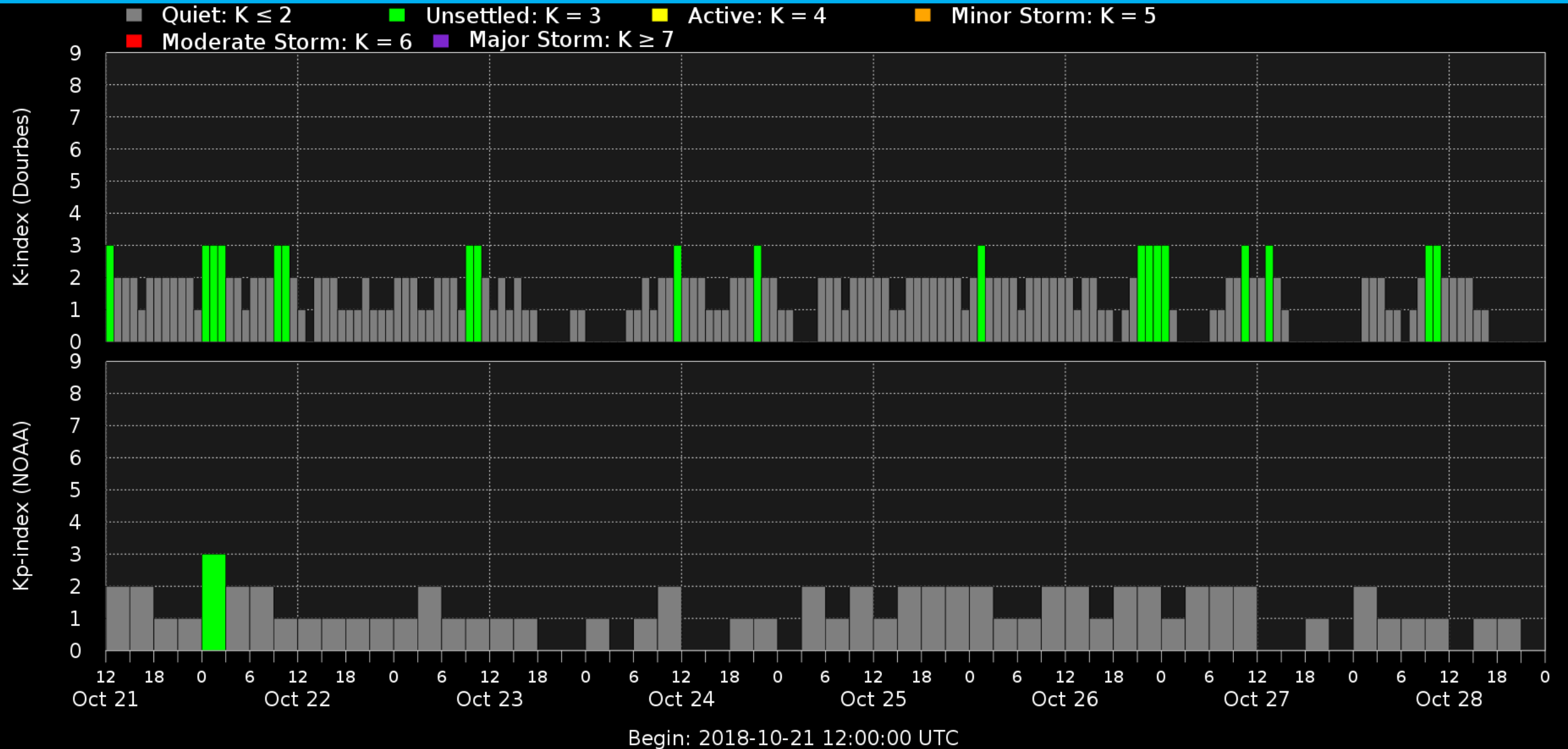
Solar wind parameters (ACE data)



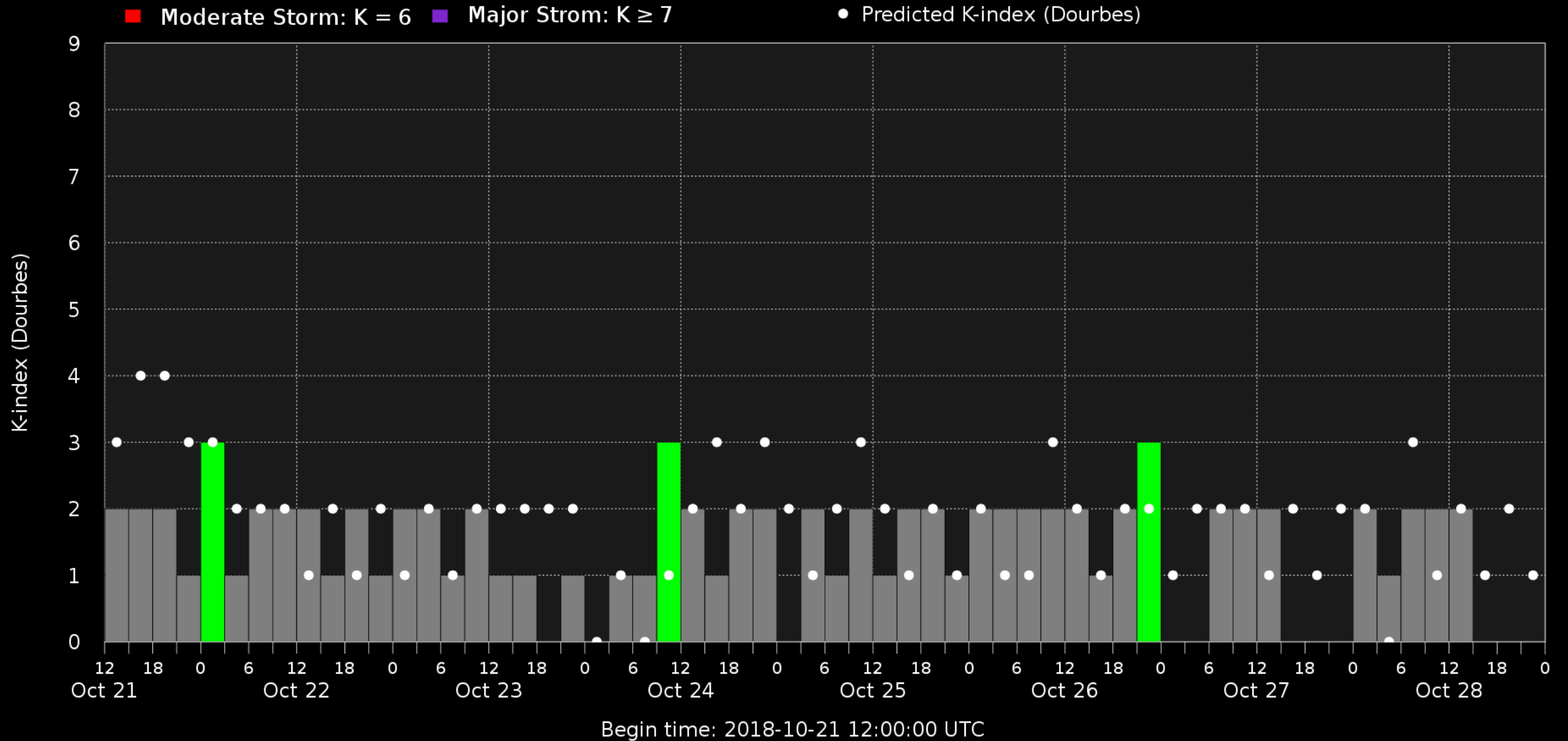
Solar wind parameters & K-index (DSCOVR/Dourbes)



Geomagnetic activity (K-indexes)



K-Dourbes index



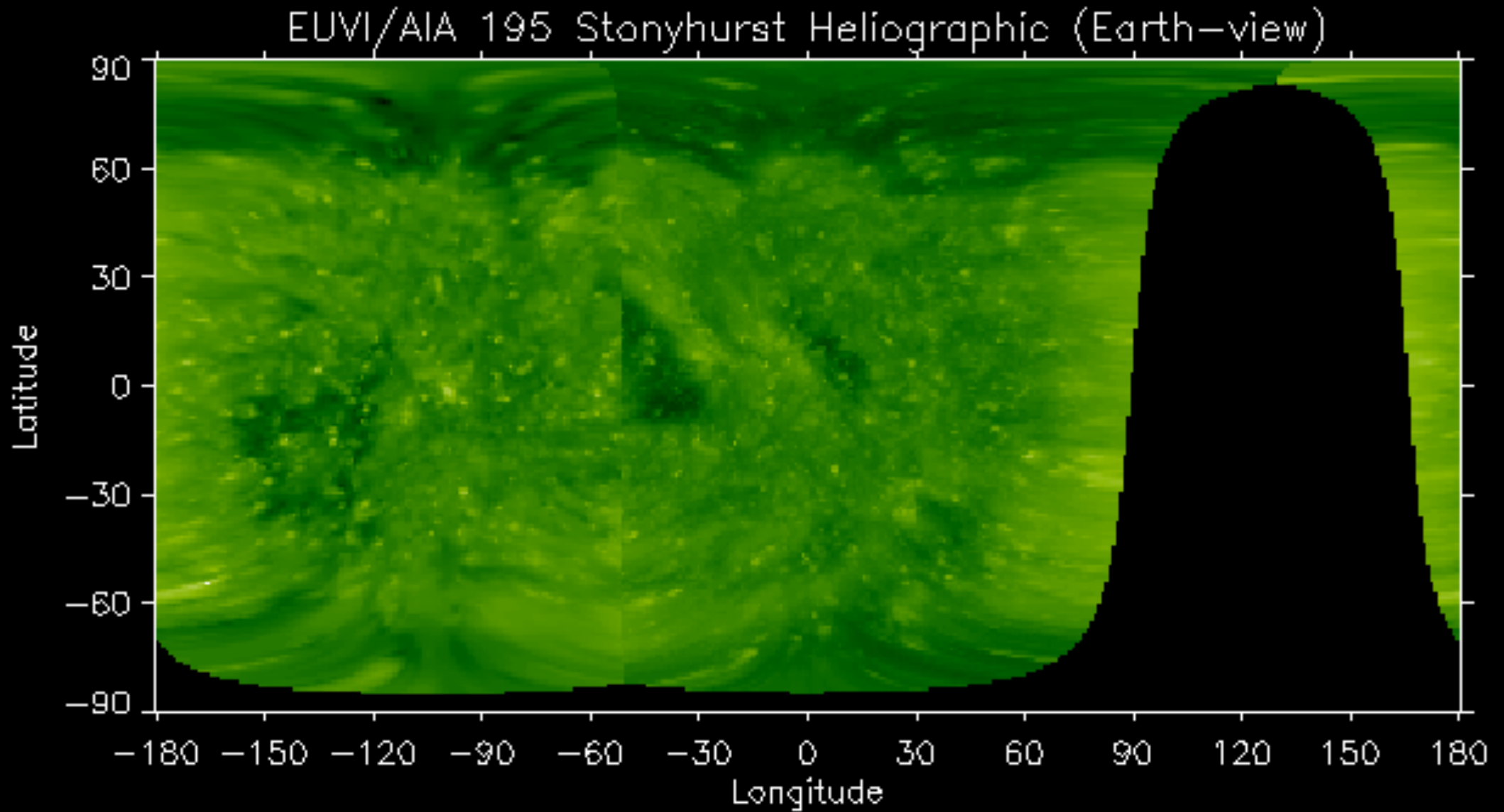
Outlook



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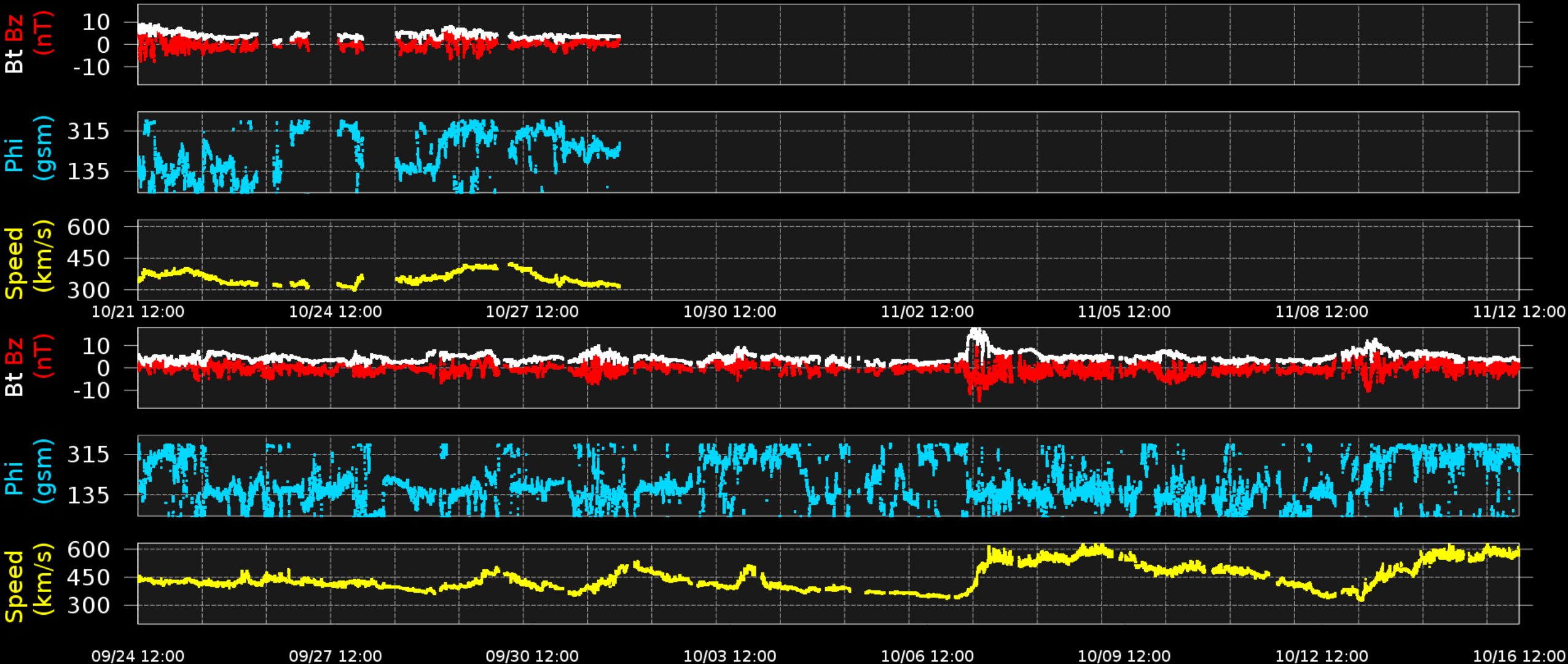
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Outlook: Solar activity



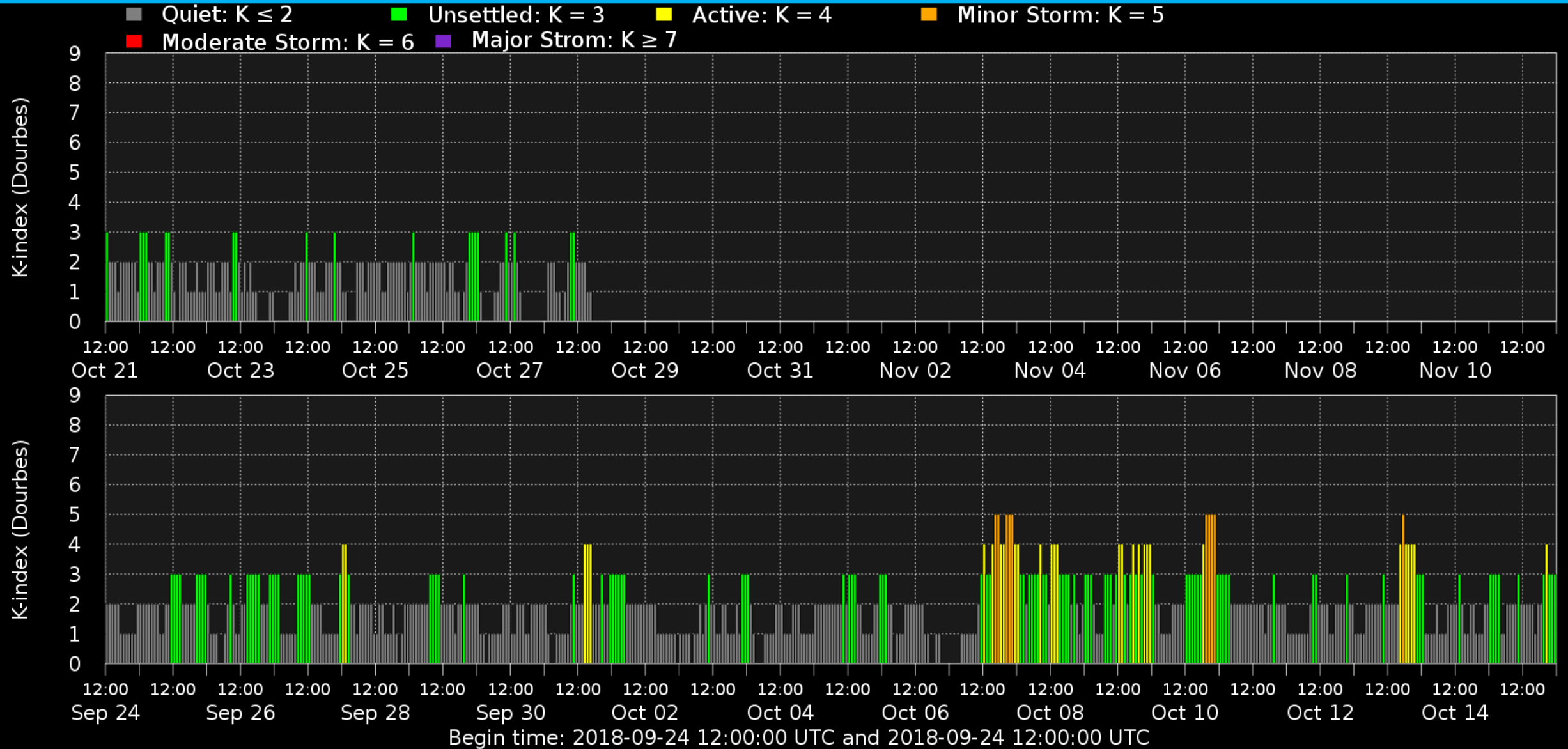
Outlook: Solar wind

DSCOVR (ngdc.noaa.gov/dscovr)



Begin time: 2018-09-24 12:00:00 UTC

Outlook: Geomagnetic activity



SIDC Space Weather Briefing

See you at our next briefing!

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