

SIDC Space Weather Briefing

07 April 2019 - 14 April 2019

Matthew West (Forecaster),
Jennifer O'Hara (Presenter)
& the SIDC forecaster team



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Solar Influences
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Summary Report

Solar activity from 2019-04-07 12:00 UT to 2019-04-14 12:00 UT

Active regions	AR 2738
Flaring	# B-class flare: 39 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	No Significant filaments
CMEs	One small East limb CME
Proton Events	Protons at background Level

Solar wind and geomagnetic conditions from 2019-04-07 12:00 UT to 2019-04-14 12:00 UT

Coronal Holes	No low latitude CHs
ICME	None
SW Conditions	Fluctuated between 304 and 490 km/s
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 4

All Quiet Alert: From 2019-04-09

Solar Activity

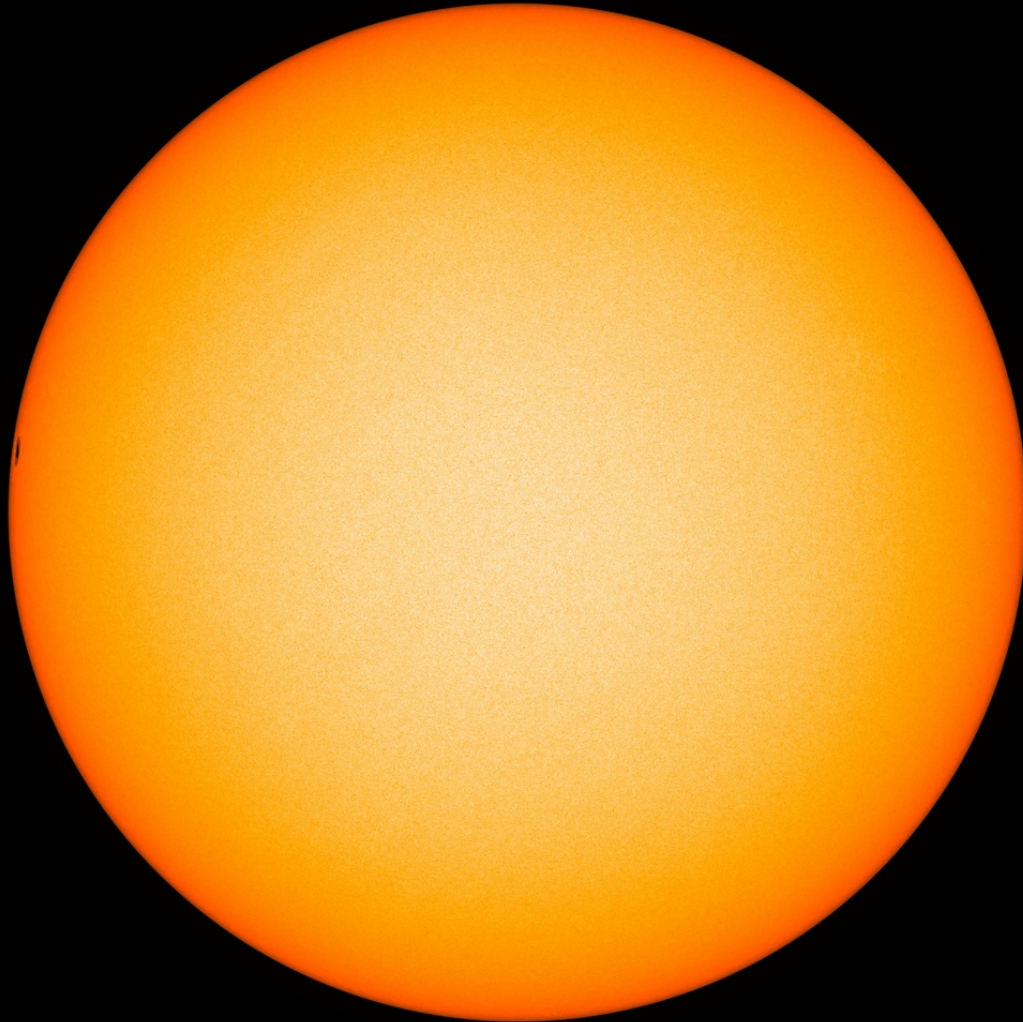


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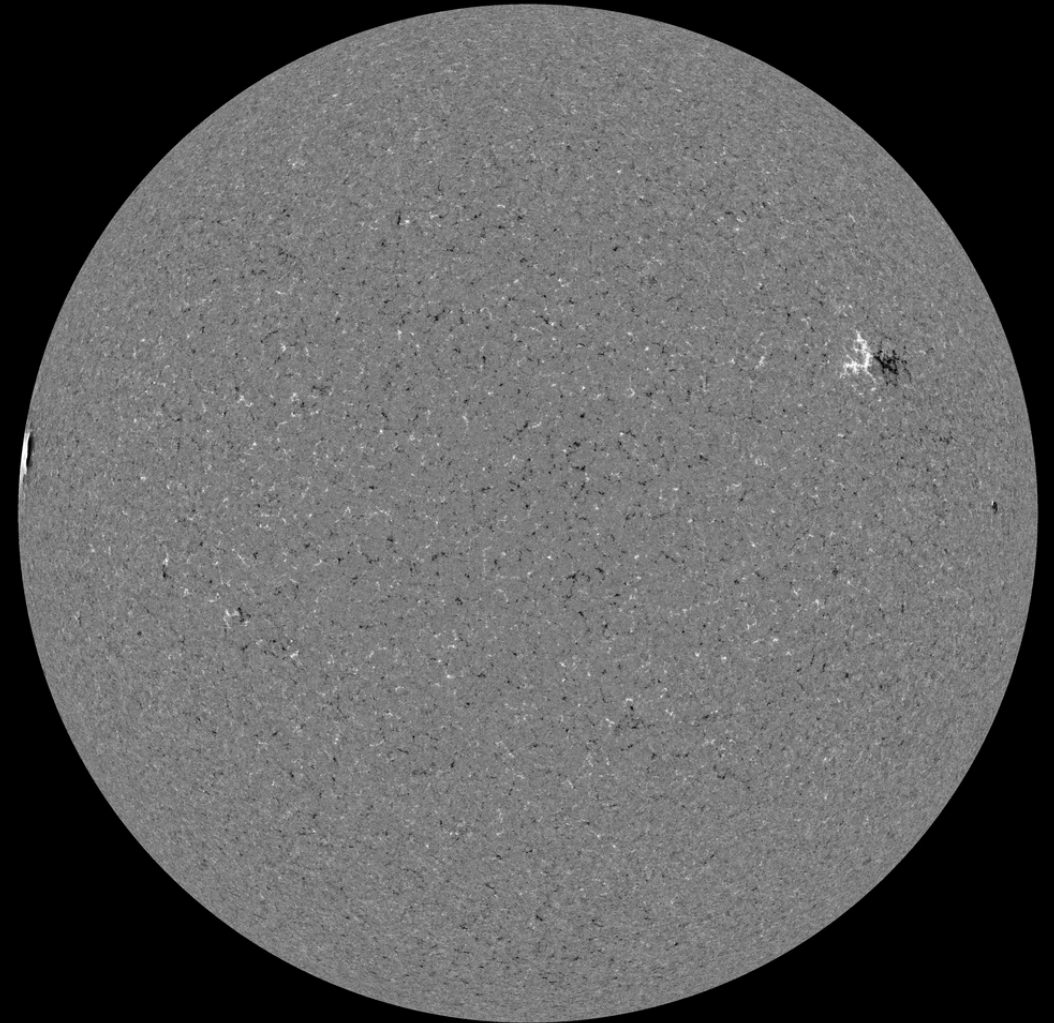
Solar active region - start of the week

SDO/HMI White Light 2019-04-07



SDO/HMI Quick-Look Continuum: 20190407_114500

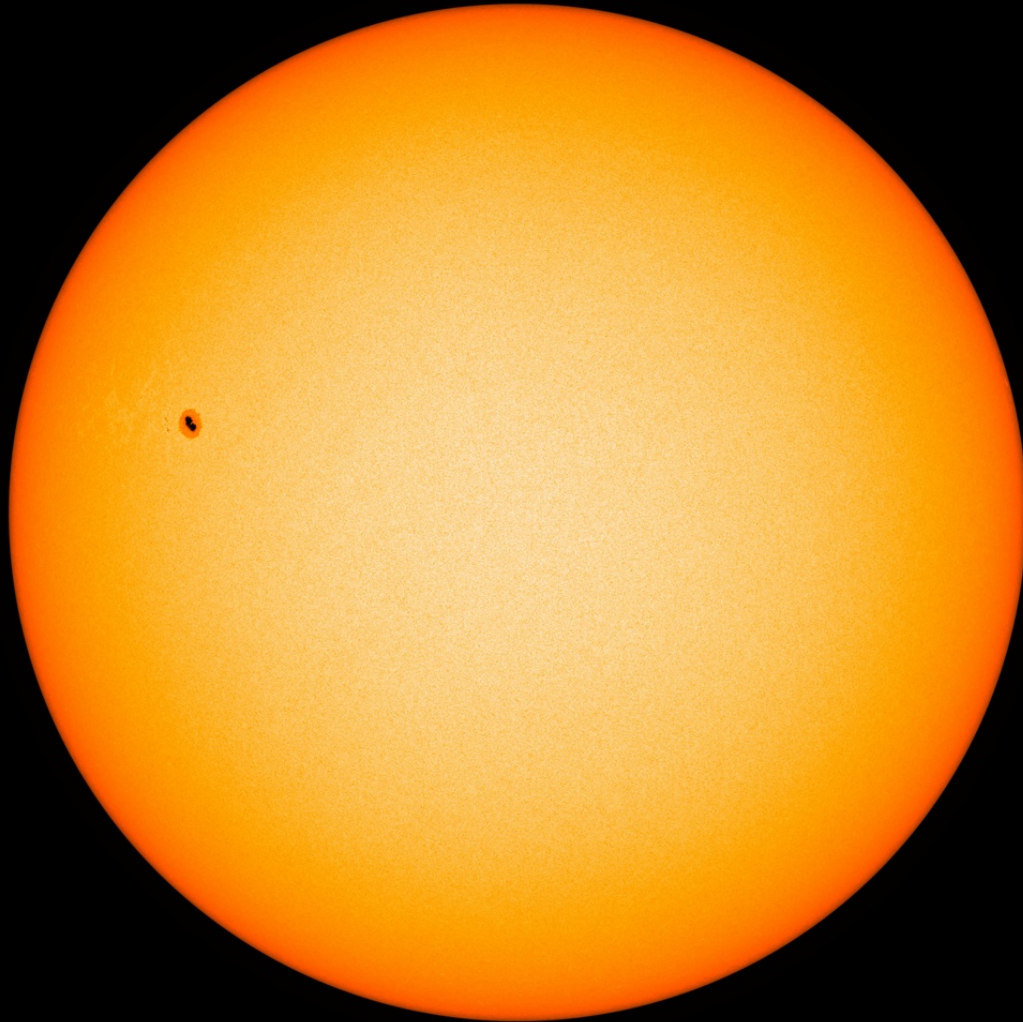
SDO/HMI Magnetogram 2019-04-07



SDO/HMI Quick-Look Magnetogram: 20190407_114500

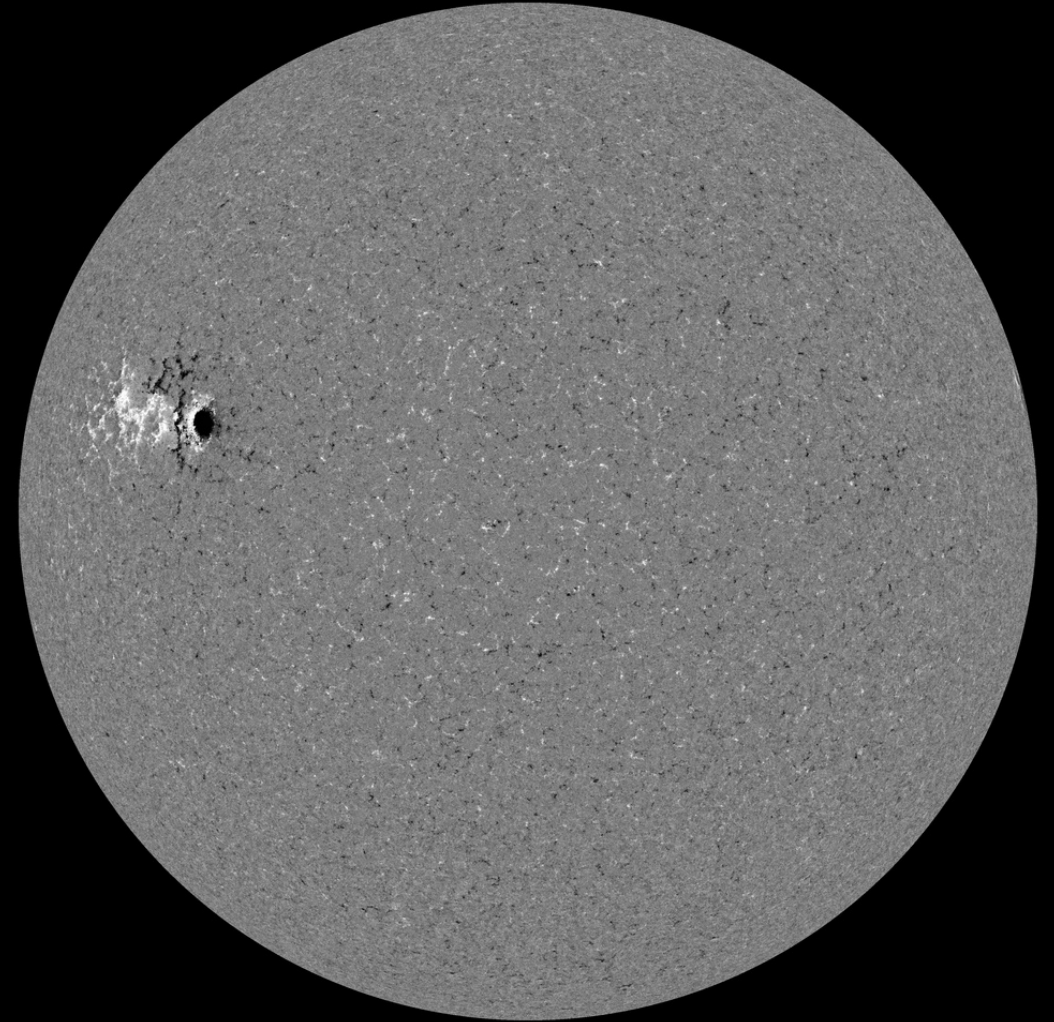
Solar active region - middle of the week

SDO/HMI White Light 2019-04-10



SDO/HMI Quick-Look Continuum: 20190410_114500

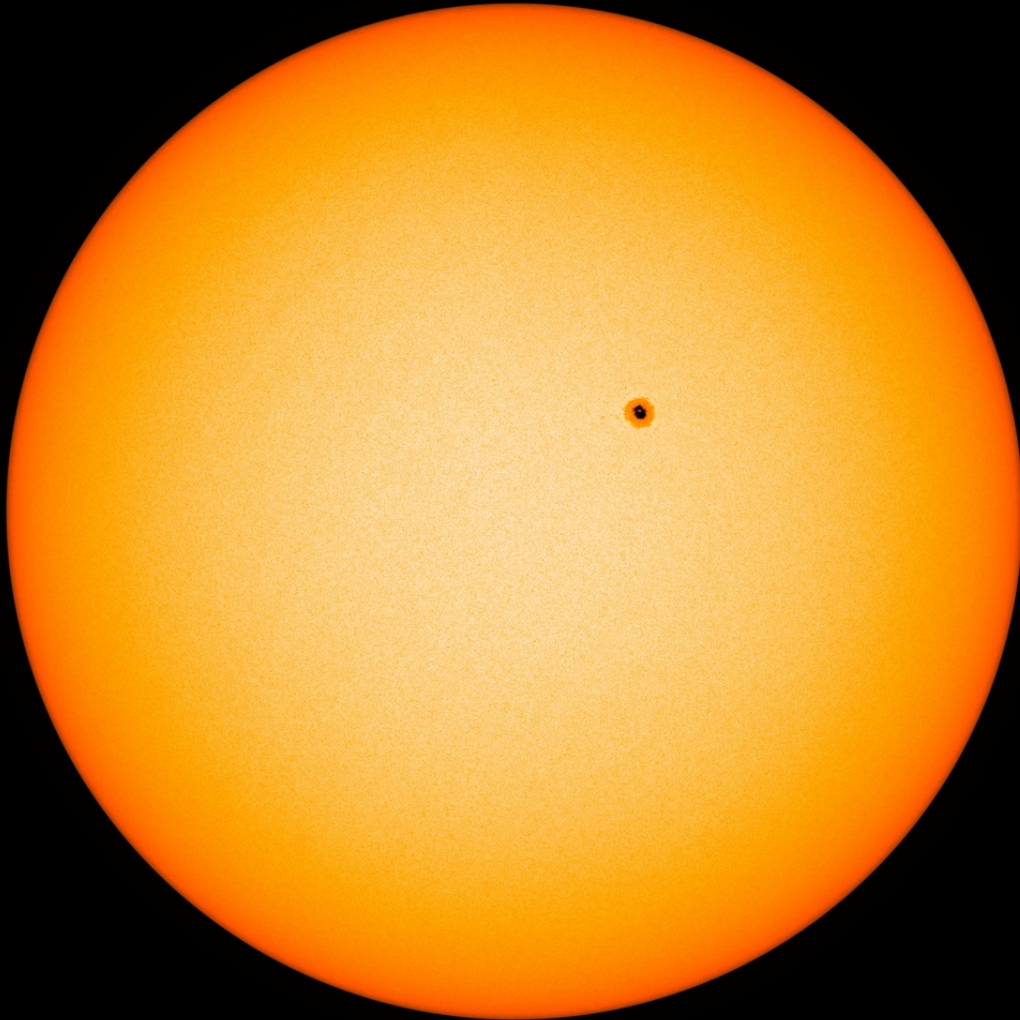
SDO/HMI Magnetogram 2019-04-10



SDO/HMI Quick-Look Magnetogram: 20190410_114500

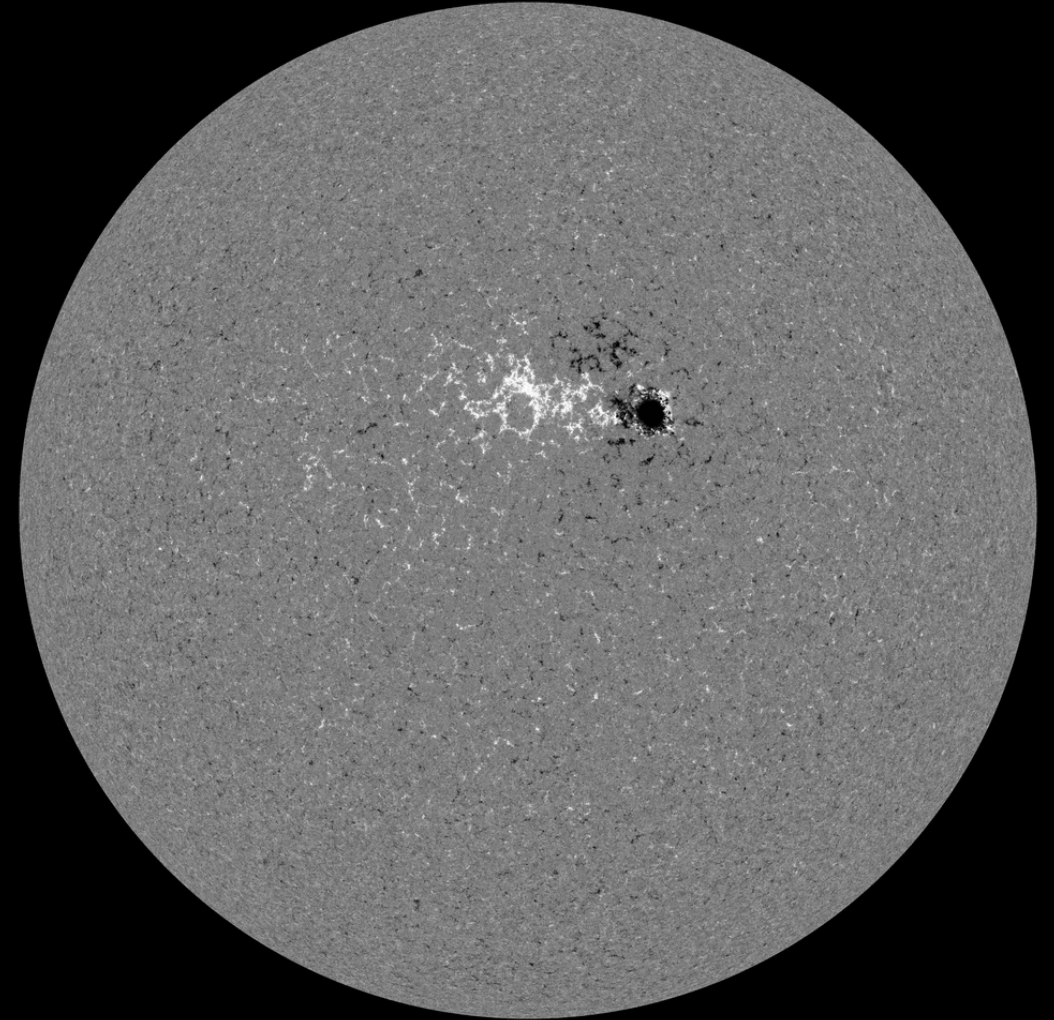
Solar active region - end of the week

SDO/HMI White Light 2019-04-14



SDO/HMI Quick-Look Continuum: 20190414_114500

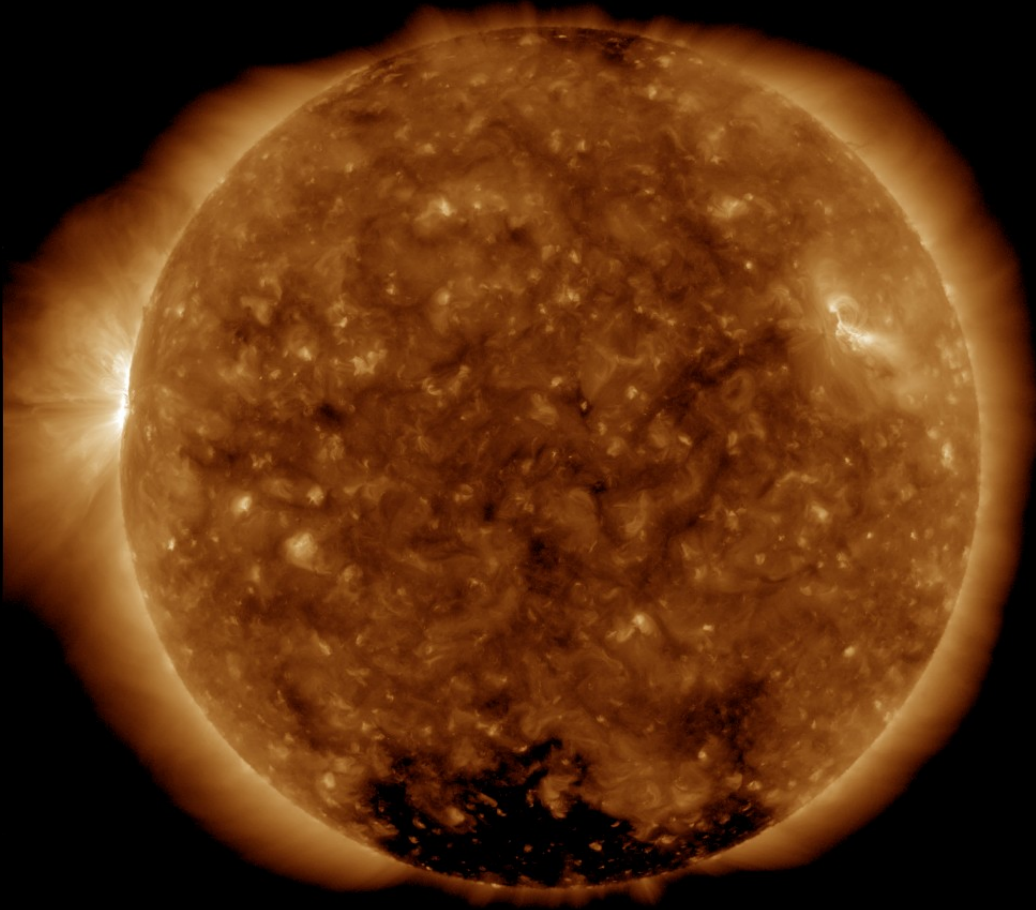
SDO/HMI Magnetogram 2019-04-14



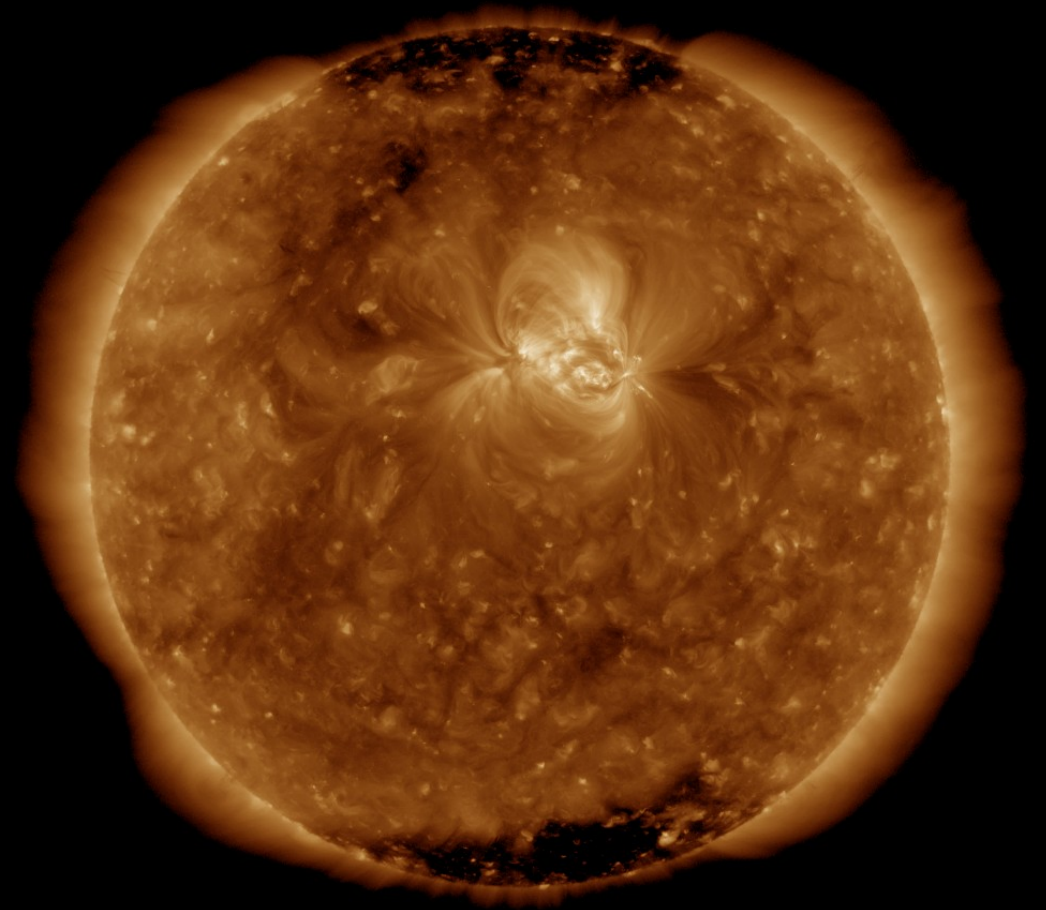
SDO/HMI Quick-Look Magnetogram: 20190414_114500

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2019-04-07



SDO/AIA 19.3 nm 2019-04-14

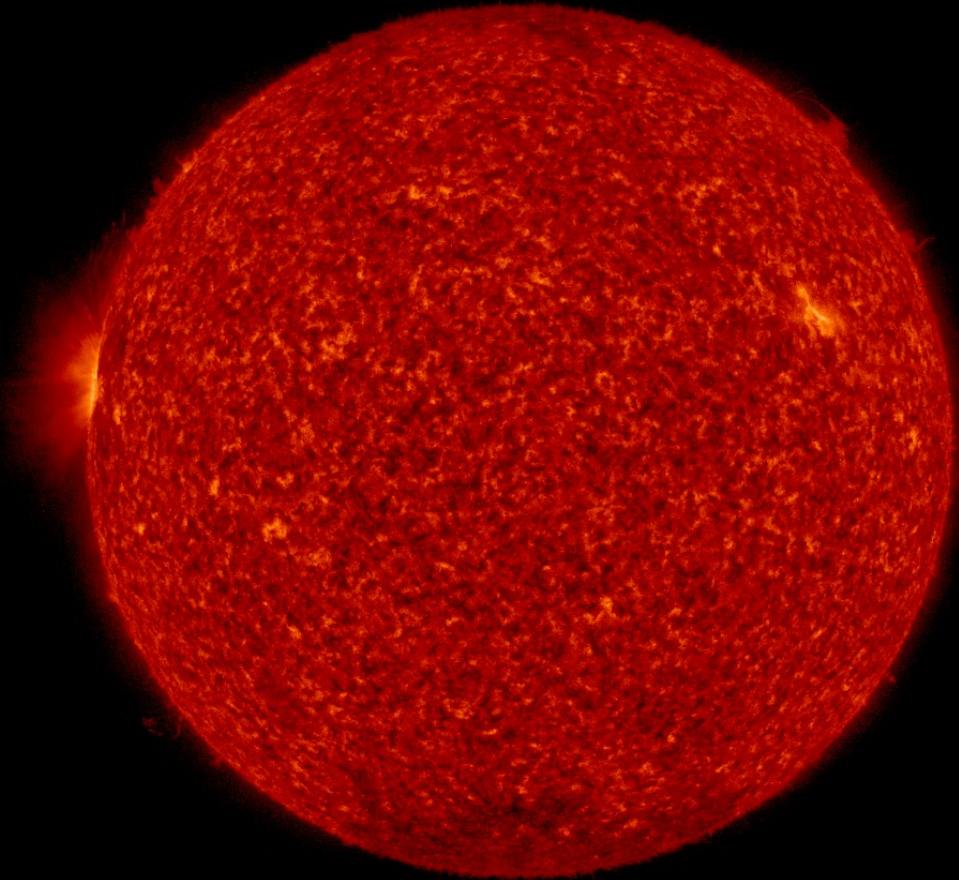


SDO/AIA 193 2019-04-07 12:11:17 UT

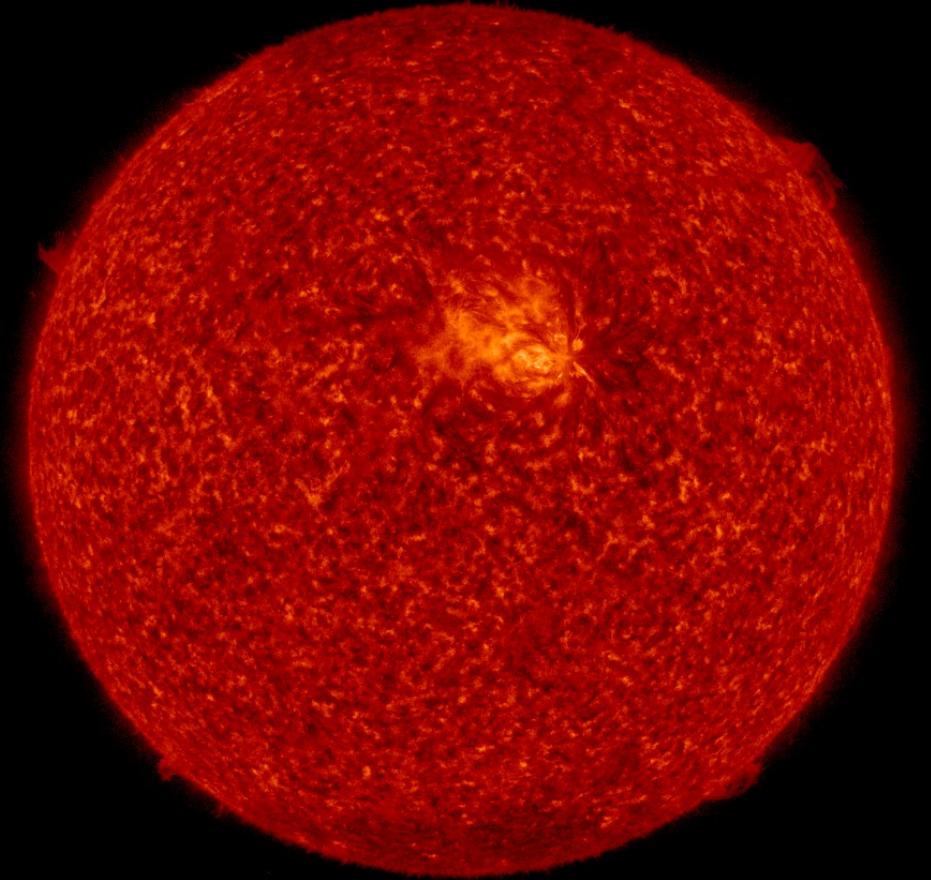
SDO/AIA 193 2019-04-14 12:12:05 UT

Solar active region & Filament

SDO/AIA 30.4 nm 2019-04-07



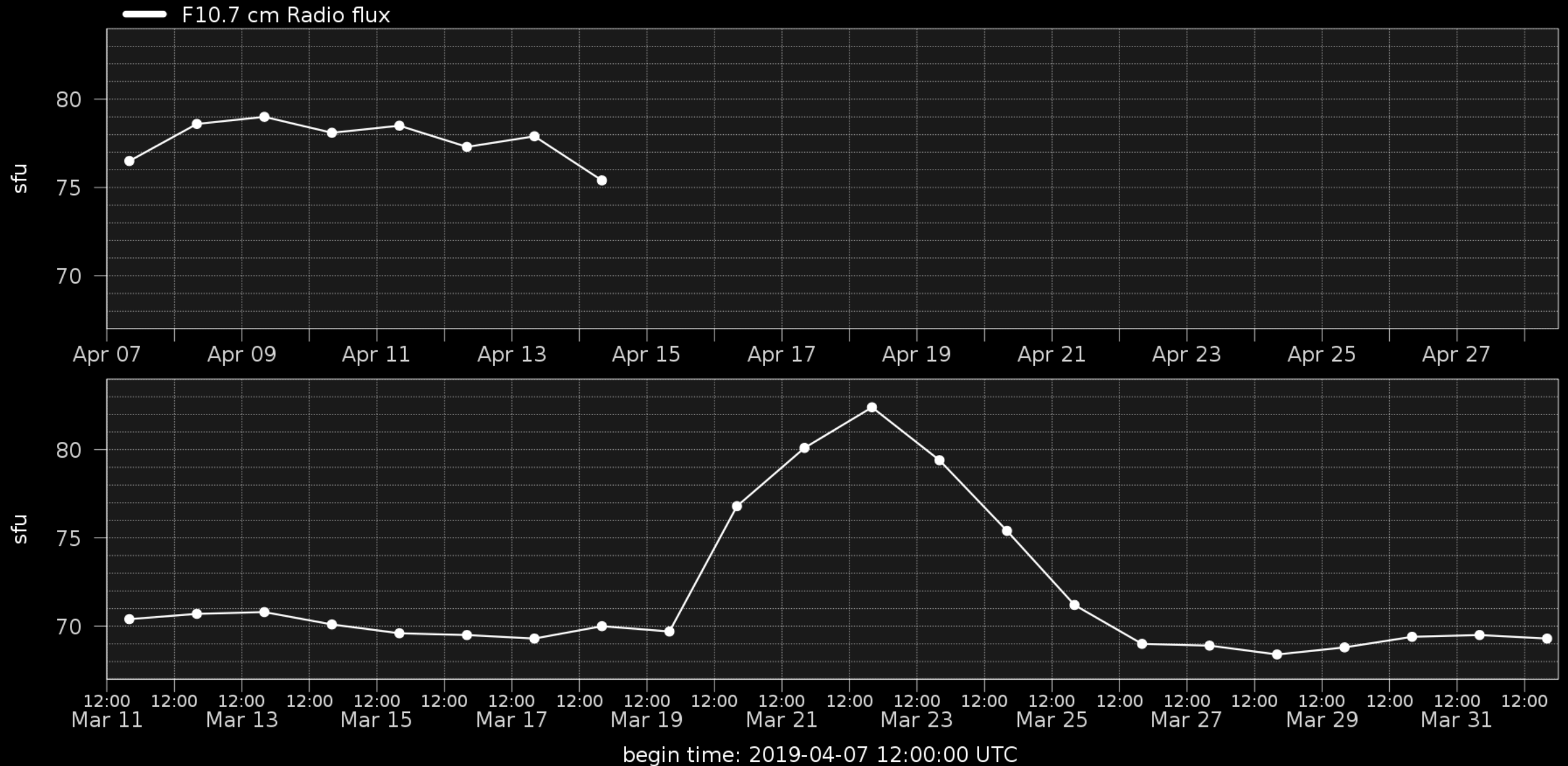
SDO/AIA 30.4 nm 2019-04-14



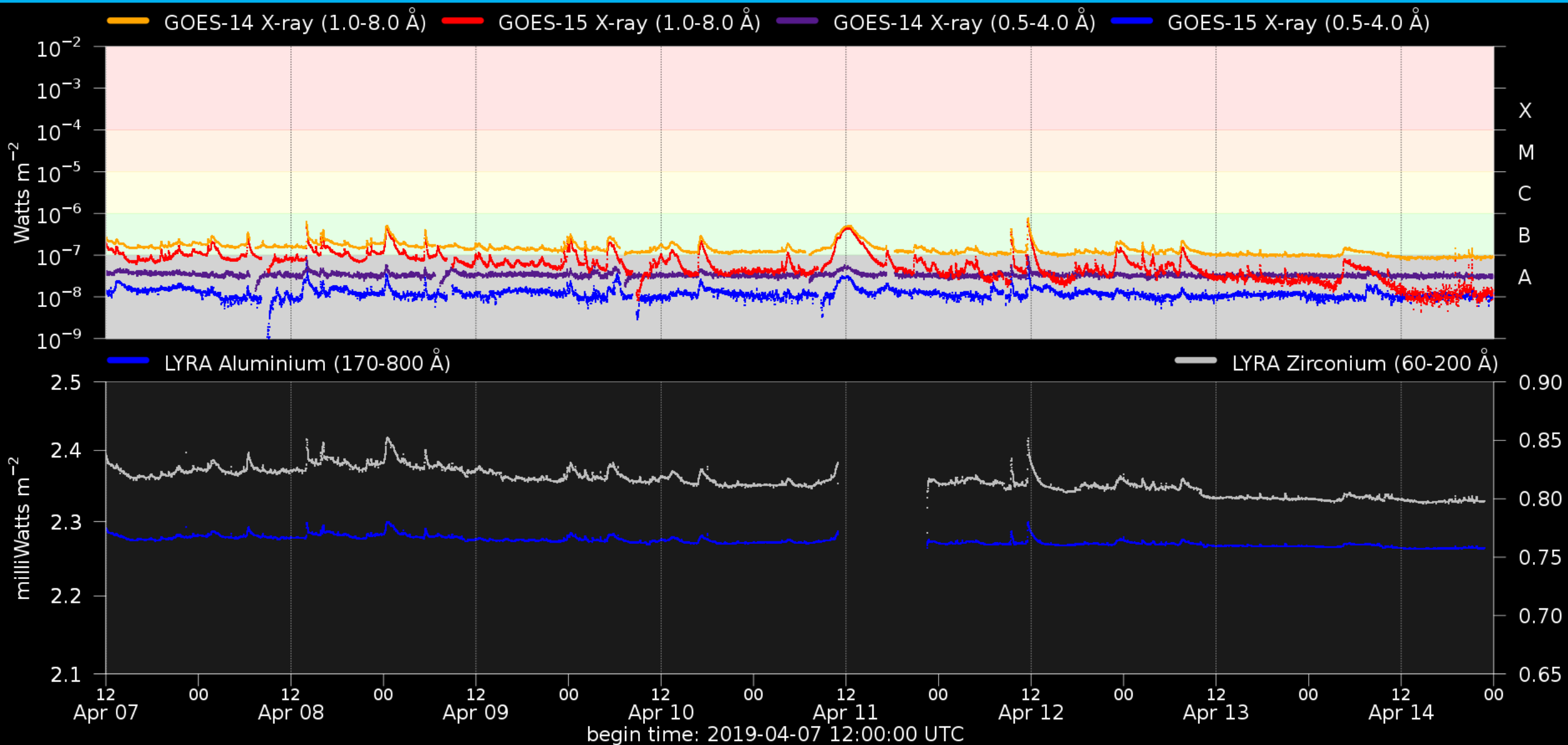
SDO/AIA 304 2019-04-07 12:13:06 UT

SDO/AIA 304 2019-04-14 12:13:54 UT

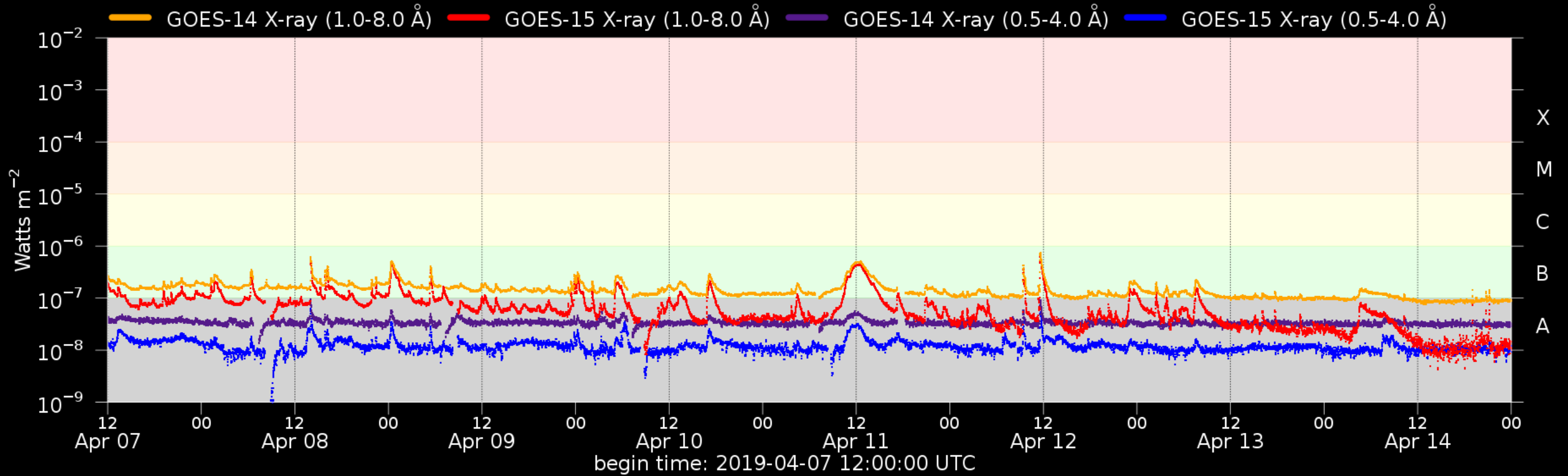
Solar F10.7cm radio flux



Solar X-Ray and UV flux



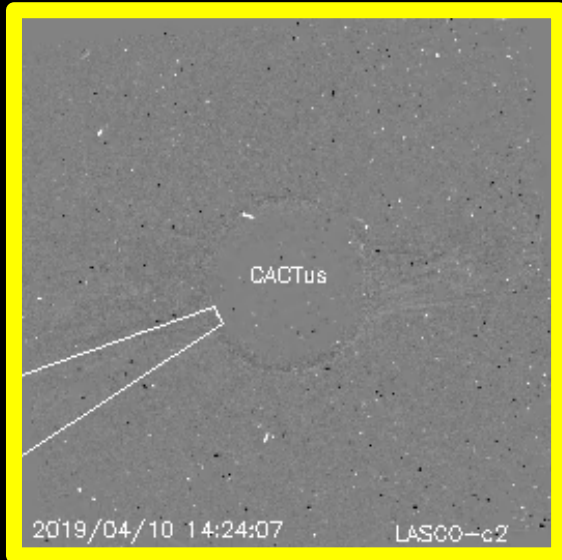
Flaring activity



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

Issue date	2019-04-07	2019-04-08	2019-04-09	2019-04-10	2019-04-11	2019-04-12	2019-04-13	2019-04-14
Probability	--- 50 05 01	--- 40 01 01	--- 25 01 01	--- 40 05 01	--- 35 05 01	--- 30 05 01	--- 20 05 01	--- 25 01 01
Observed	09 00 00 00	11 00 00 00	07 00 00 00	02 00 00 00	04 00 00 00	06 00 00 00	00 00 00 00	00 00 00 00

Coronal Mass Ejection

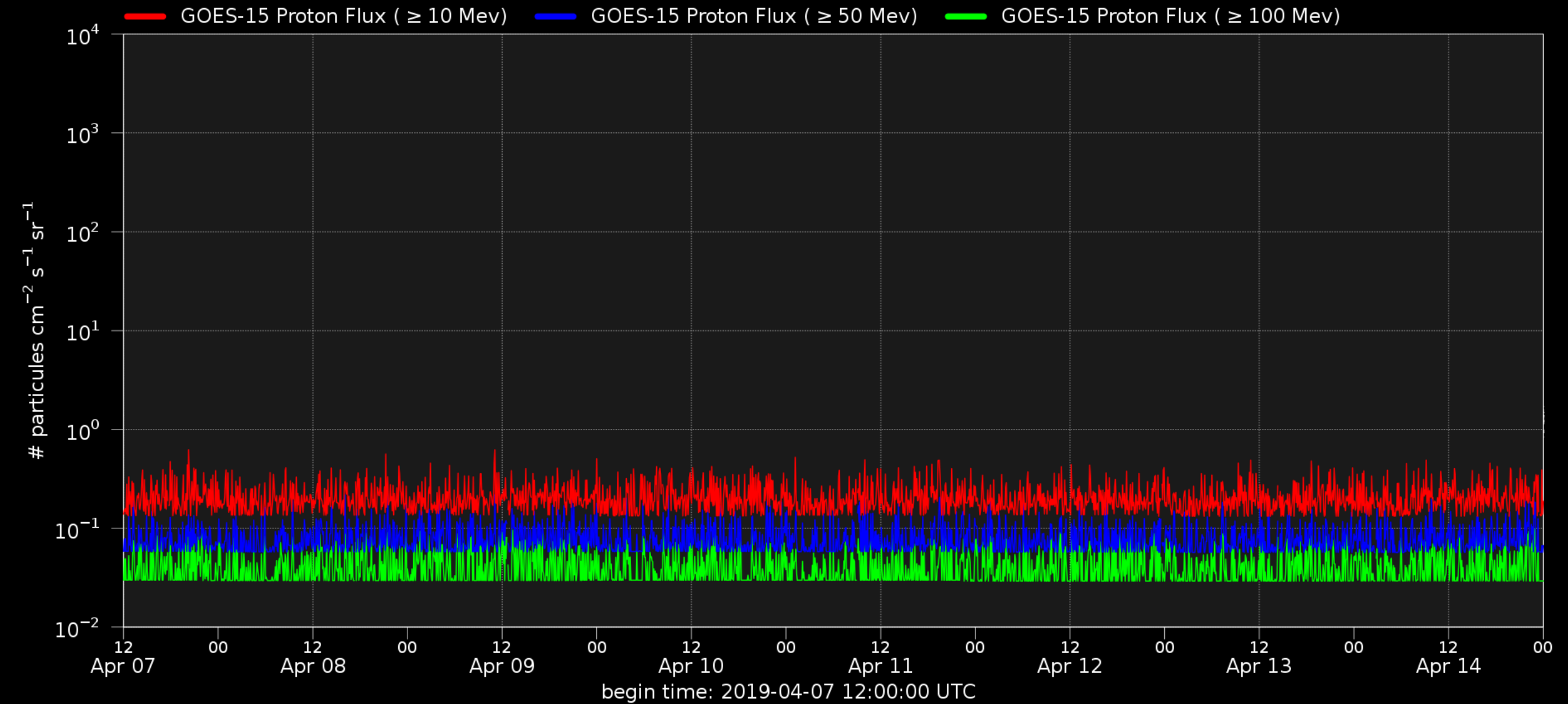


Only a small back sided CME
detected by C

01:54	04/14
22:24	04/13
19:24	04/13
17:00	04/13
13:25	04/13
10:12	04/13
07:12	04/13
04:24	04/13
01:36	04/13
22:00	04/12
19:12	04/12
16:36	04/12
13:54	04/12
11:00	04/12
07:24	04/12
03:34	04/12
23:24	04/11
20:12	04/11
16:36	04/11
13:48	04/11
10:42	04/11
07:24	04/11
04:36	04/11
01:42	04/11
22:00	04/10
19:00	04/10
16:12	04/10
12:54	04/10
10:12	04/10
06:48	04/10
04:12	04/10
00:48	04/10
21:30	04/09
18:42	04/09
15:48	04/09
12:36	04/09
09:48	04/09
06:36	04/09
04:00	04/09
00:36	04/09
21:24	04/08
18:30	04/08
15:24	04/08
12:00	04/08
09:12	04/08

c2

Solar proton flux



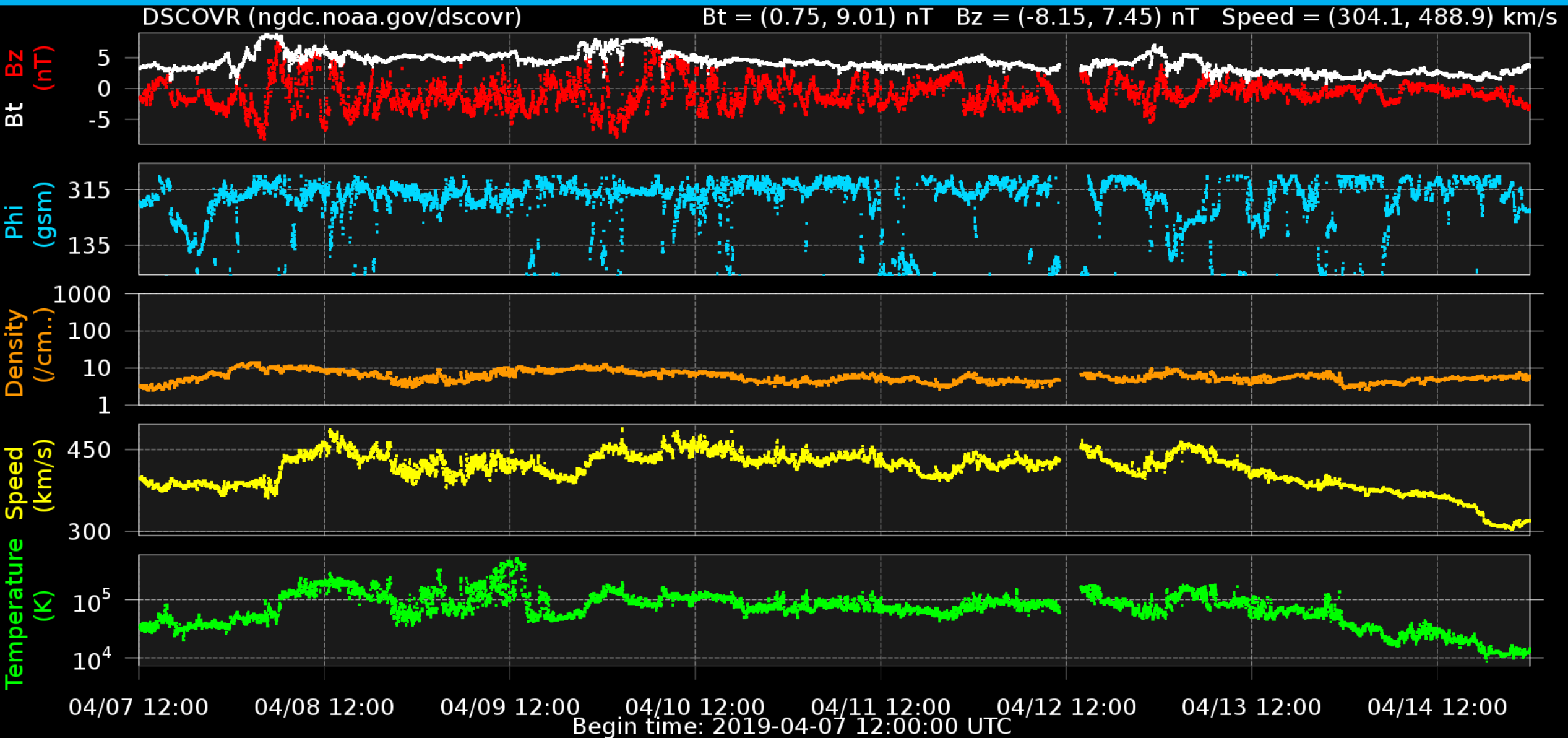
Solar Wind and Geomagnetic Activity



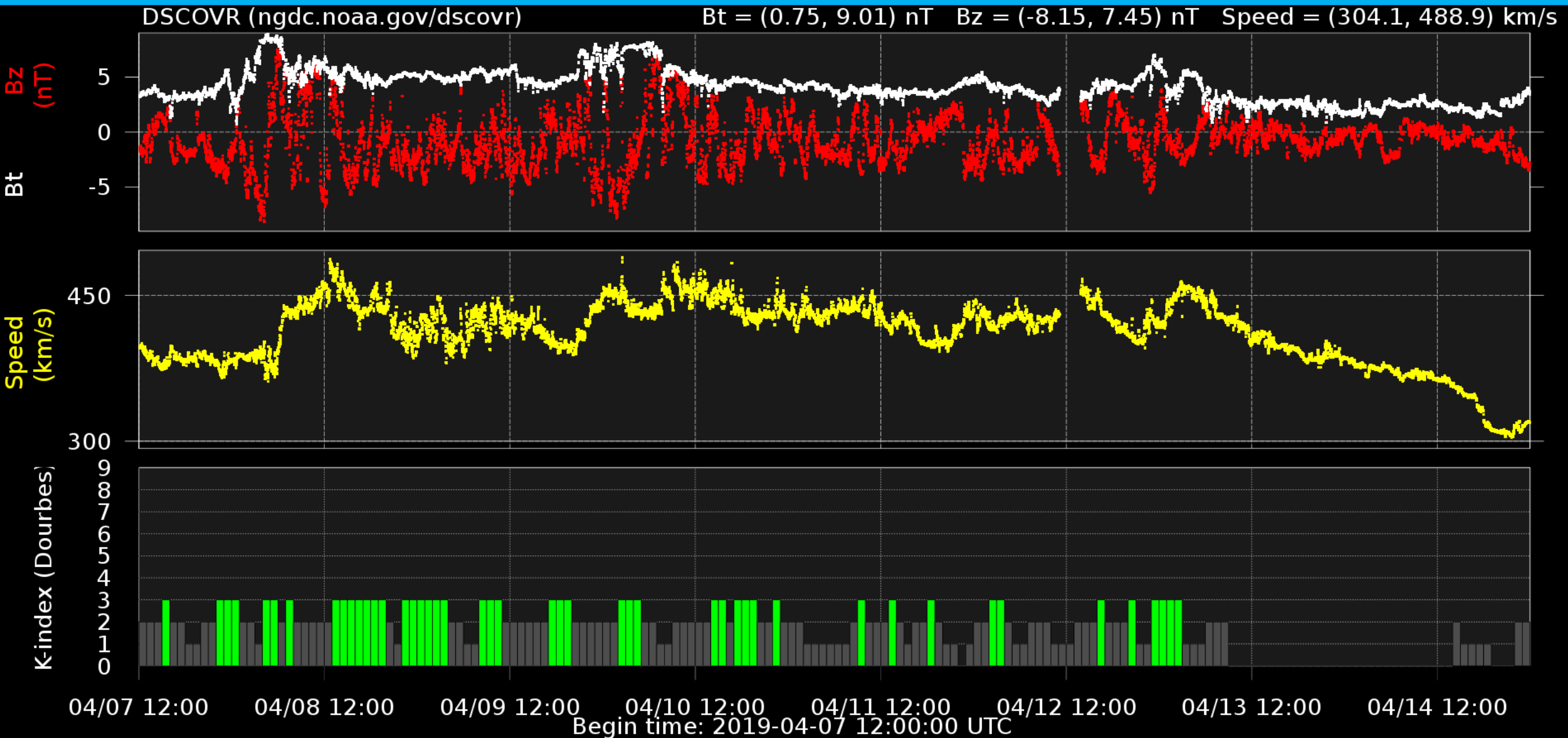
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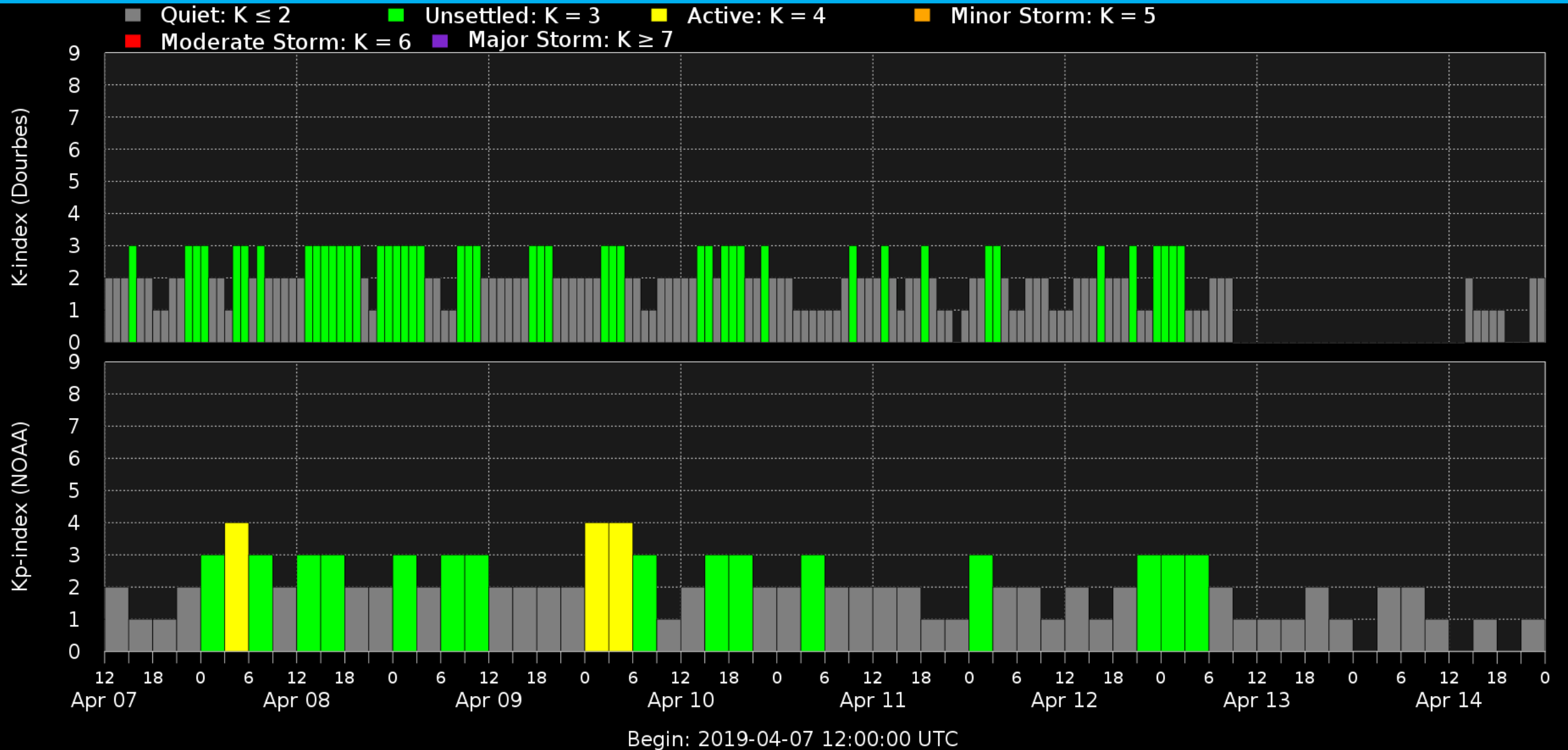
Solar wind parameters (DSCOVR data)



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



Geomagnetic activity (K-indexes)



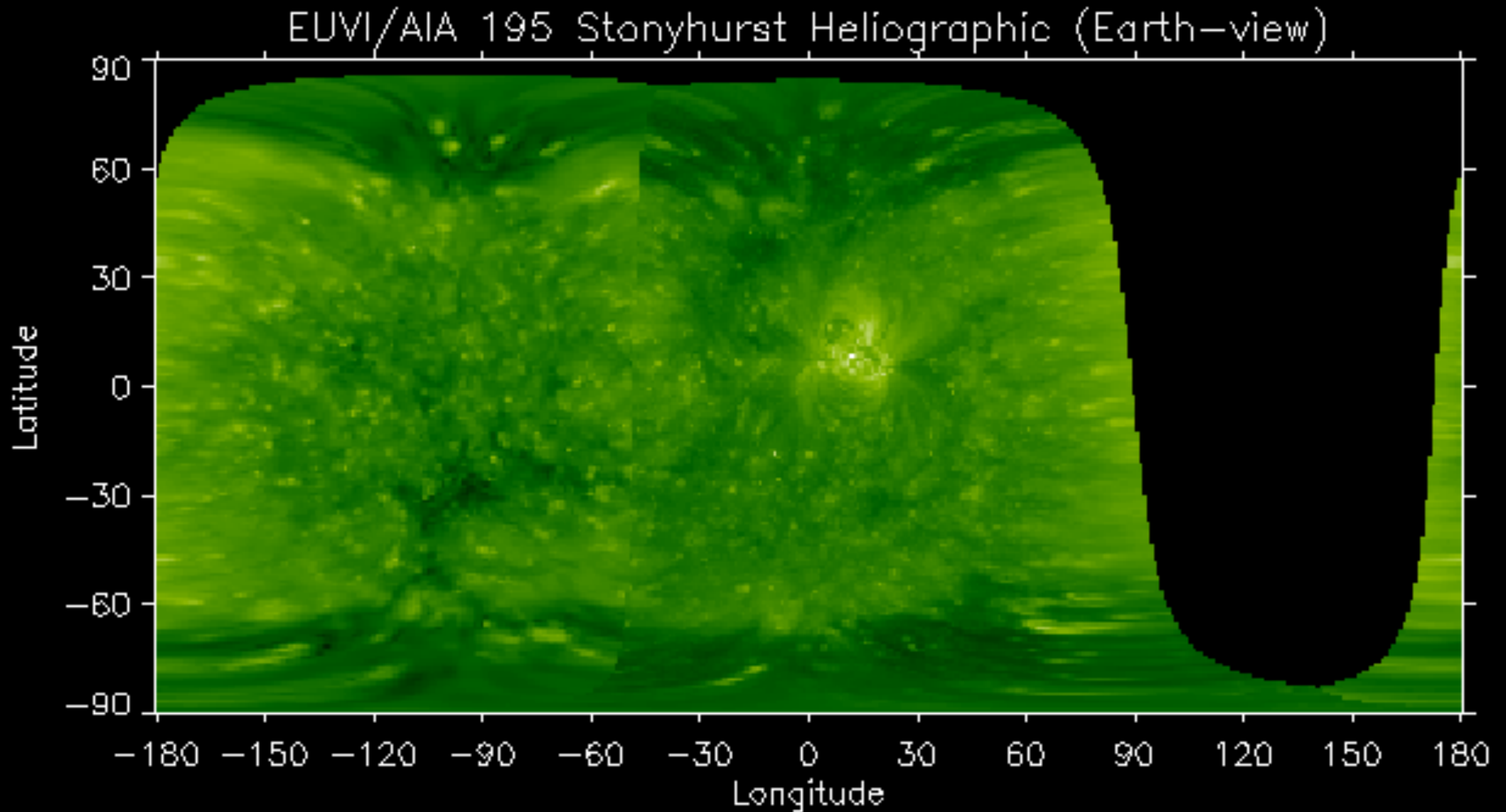
Outlook



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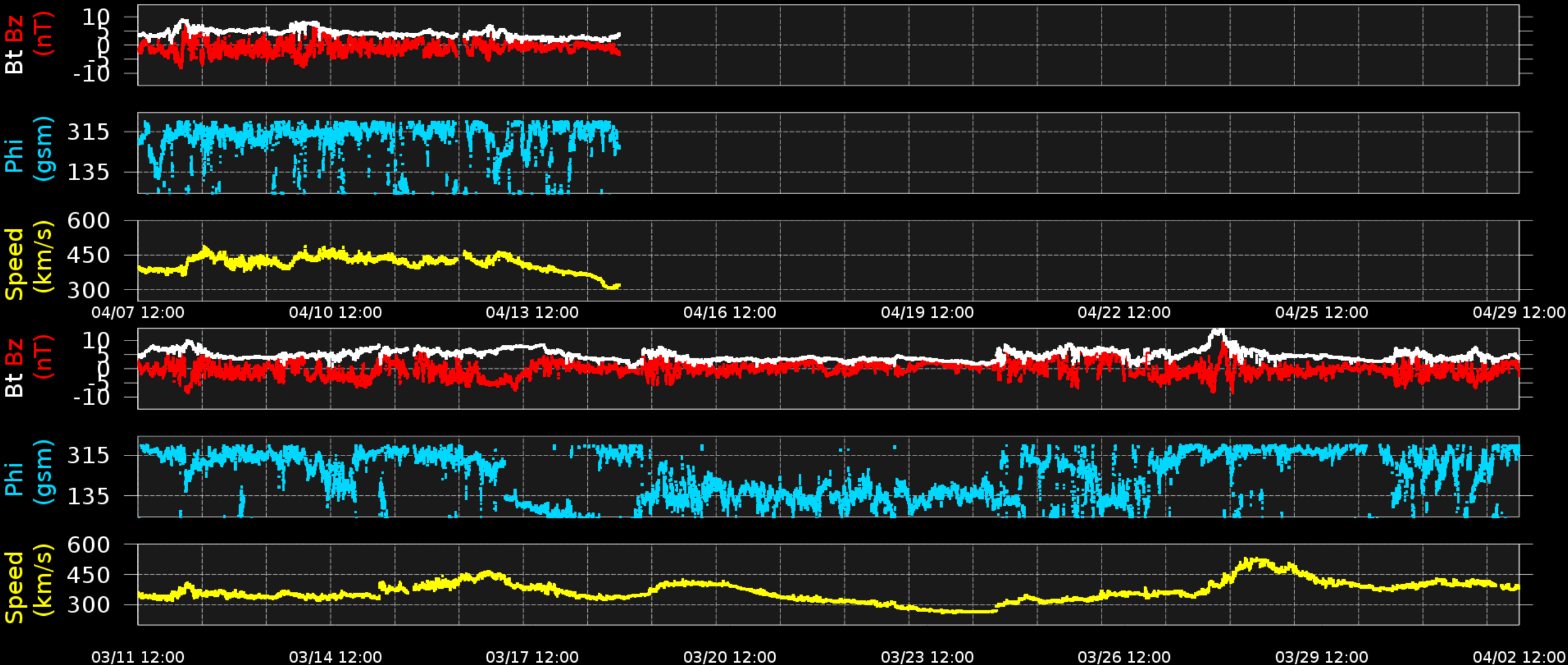
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Outlook: Solar activity



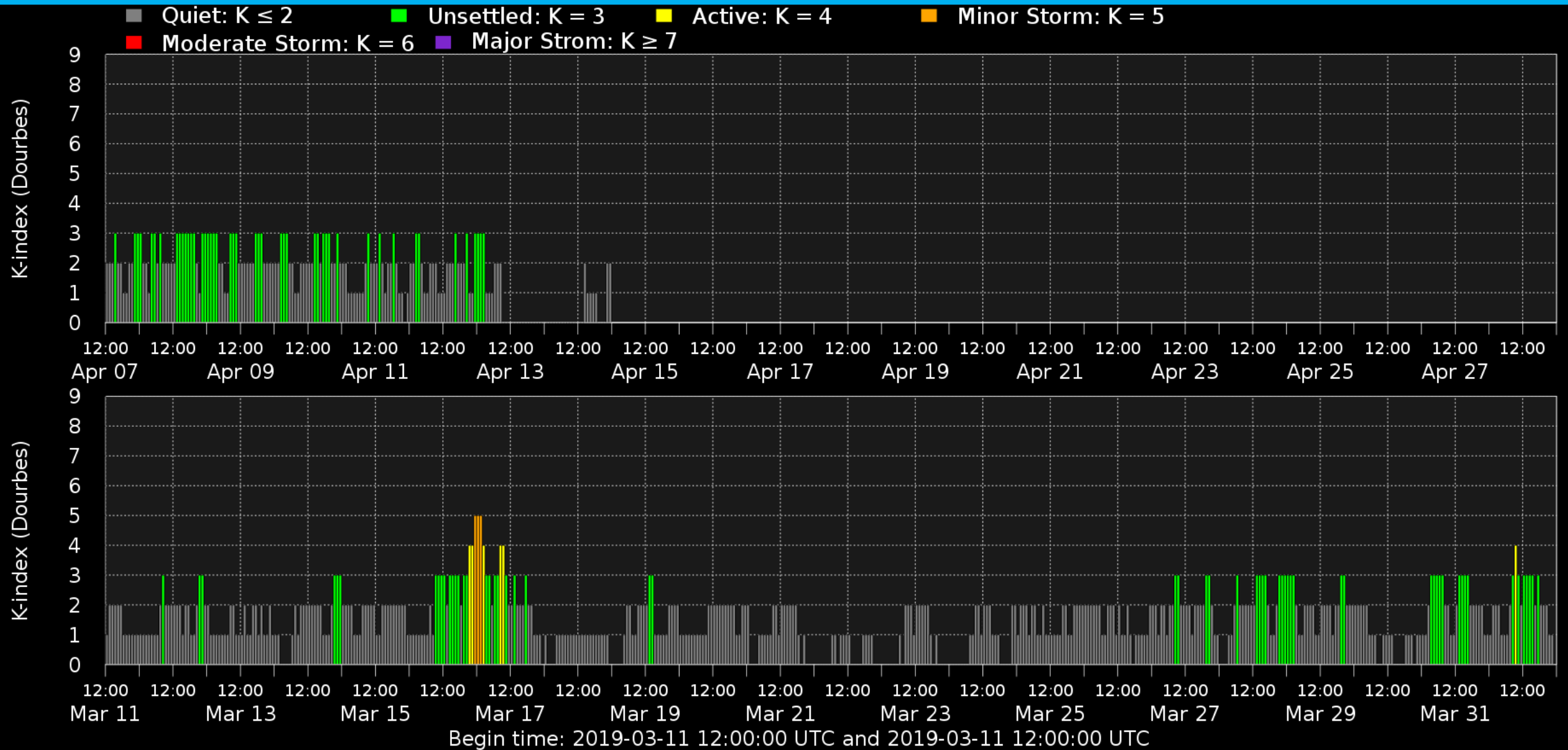
Outlook: Solar wind

DSCOVR (ngdc.noaa.gov/dscovr)



Begin time: 2019-03-11 12:00:00 UTC

Outlook: Geomagnetic activity



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See you at our next briefing!

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