

SIDC Space Weather Briefing

26 May 2019 - 02 June 2019

Judith de Patoul
& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2019-05-26 12:00 UT to 2019-06-02 12:00 UT

Active regions	The Sun was spotless
Flaring	# B-class flare: 1 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	No filament eruption
CMEs	No CME observed
Proton Events	No proton Event

Solar wind and geomagnetic conditions from 2019-05-26 12:00 UT to 2019-06-02 12:00 UT

Coronal Holes	Few small patches of equatorial coronal hole
ICME	One shock like event on May 26, 2019, at 21:25 UT
SW Conditions	Fast solar wind speed: max 566 km/s on May 29
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 4.0

All Quiet Alert: All quiet from May 30.

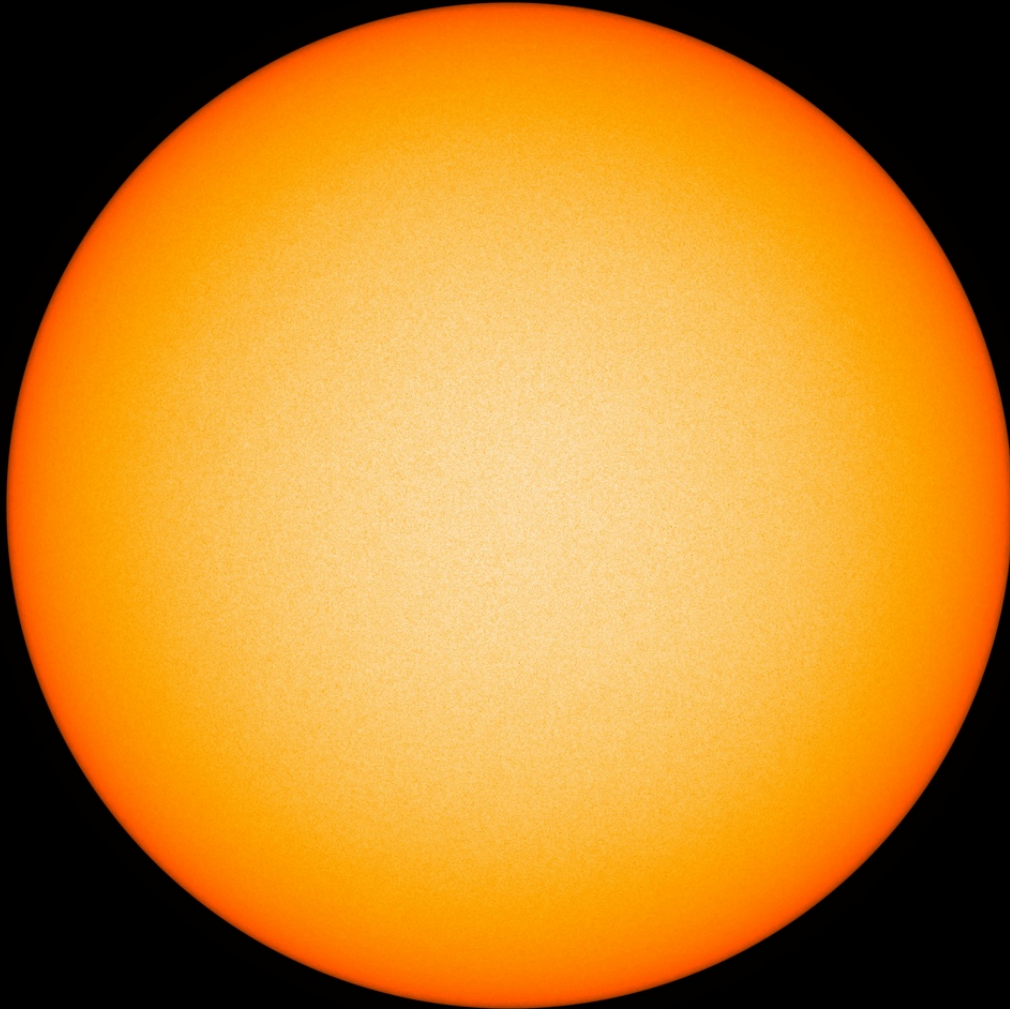
Solar Activity



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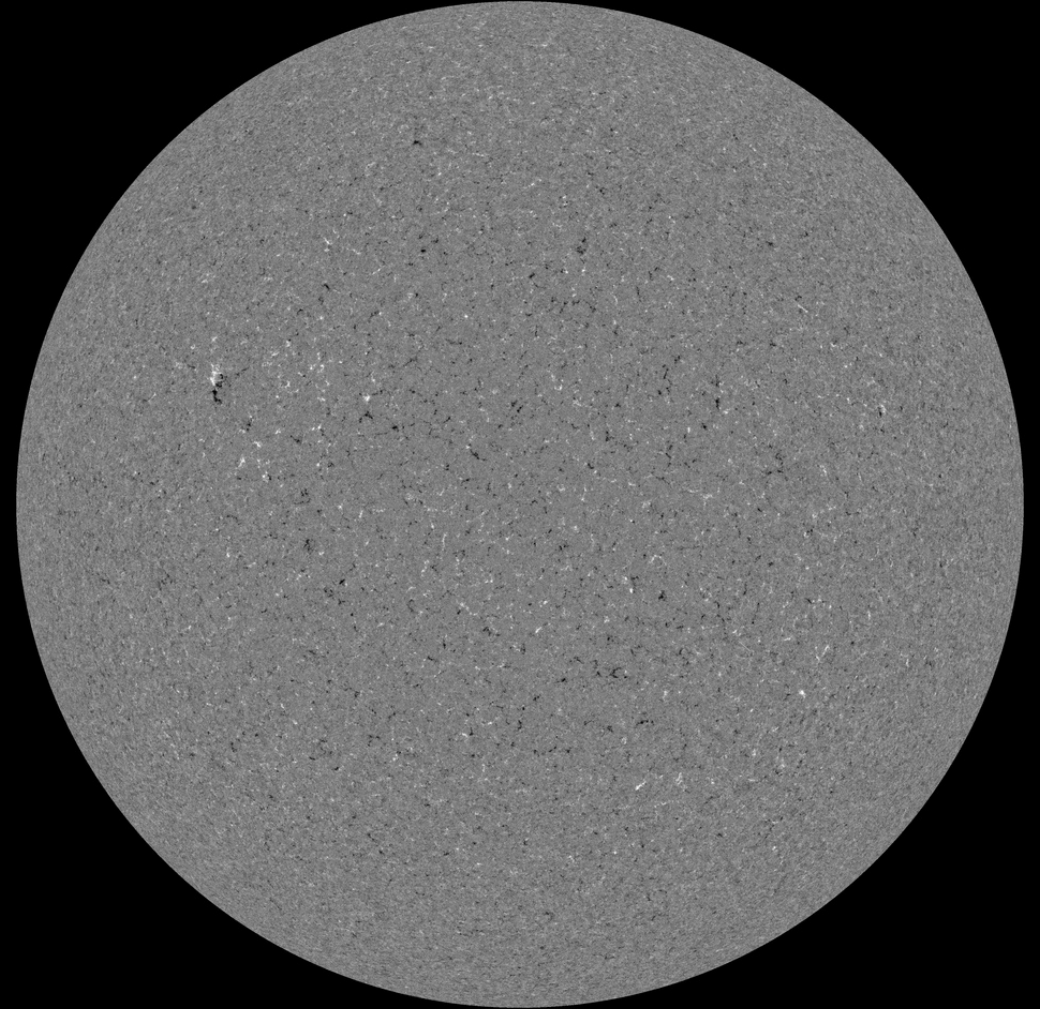
Solar active region - start of the week

SDO/HMI White Light 2019-05-26



SDO/HMI Quick-Look Continuum: 20190526_114500

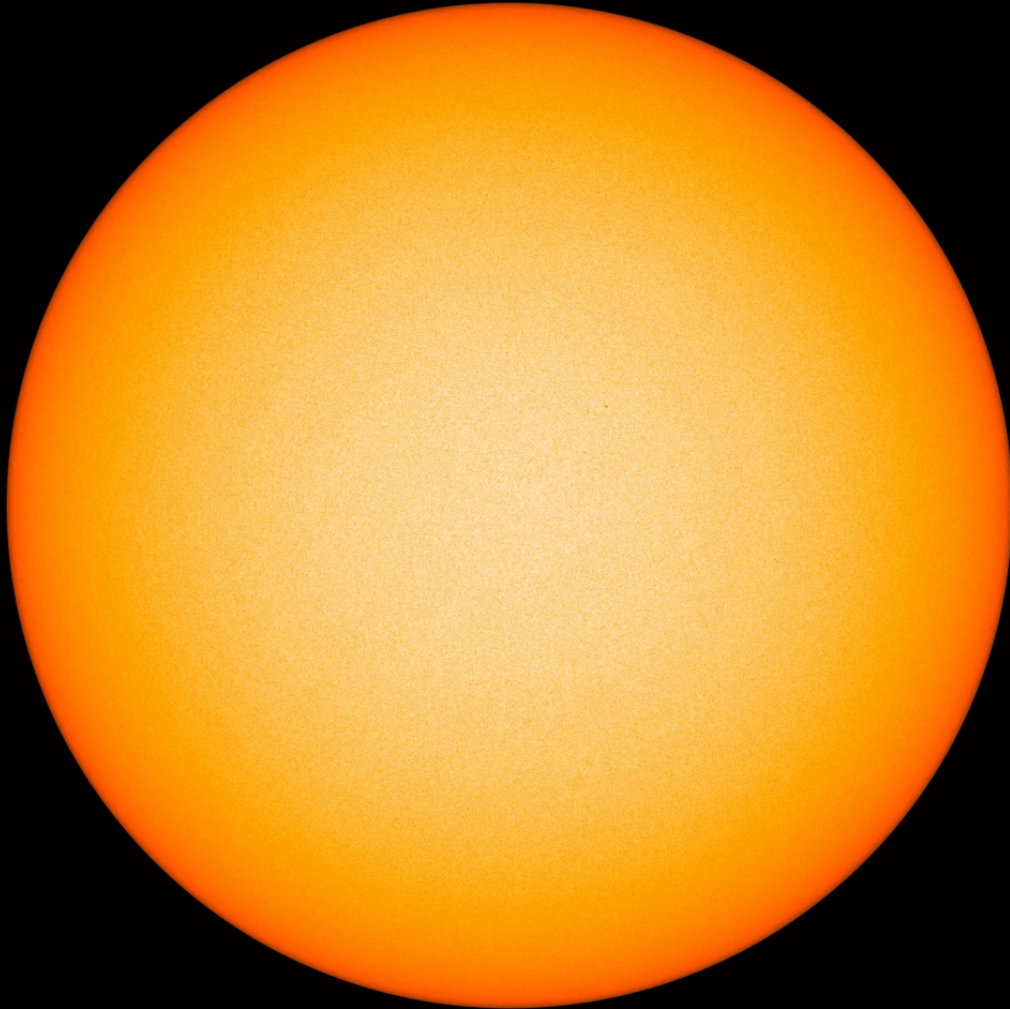
SDO/HMI Magnetogram 2019-05-26



SDO/HMI Quick-Look Magnetogram: 20190526_114500

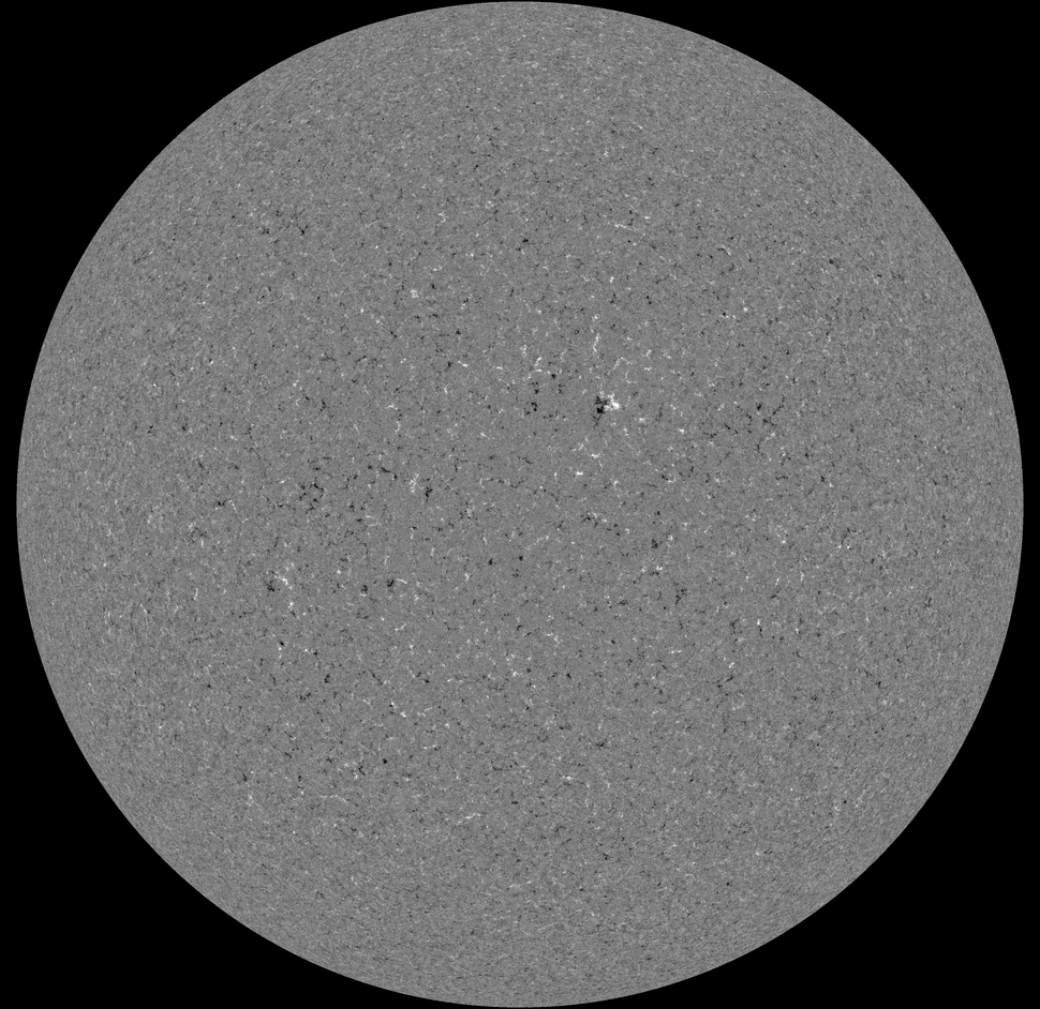
Solar active region - middle of the week

SDO/HMI White Light 2019-05-29



SDO/HMI Quick-Look Continuum: 20190529_114500

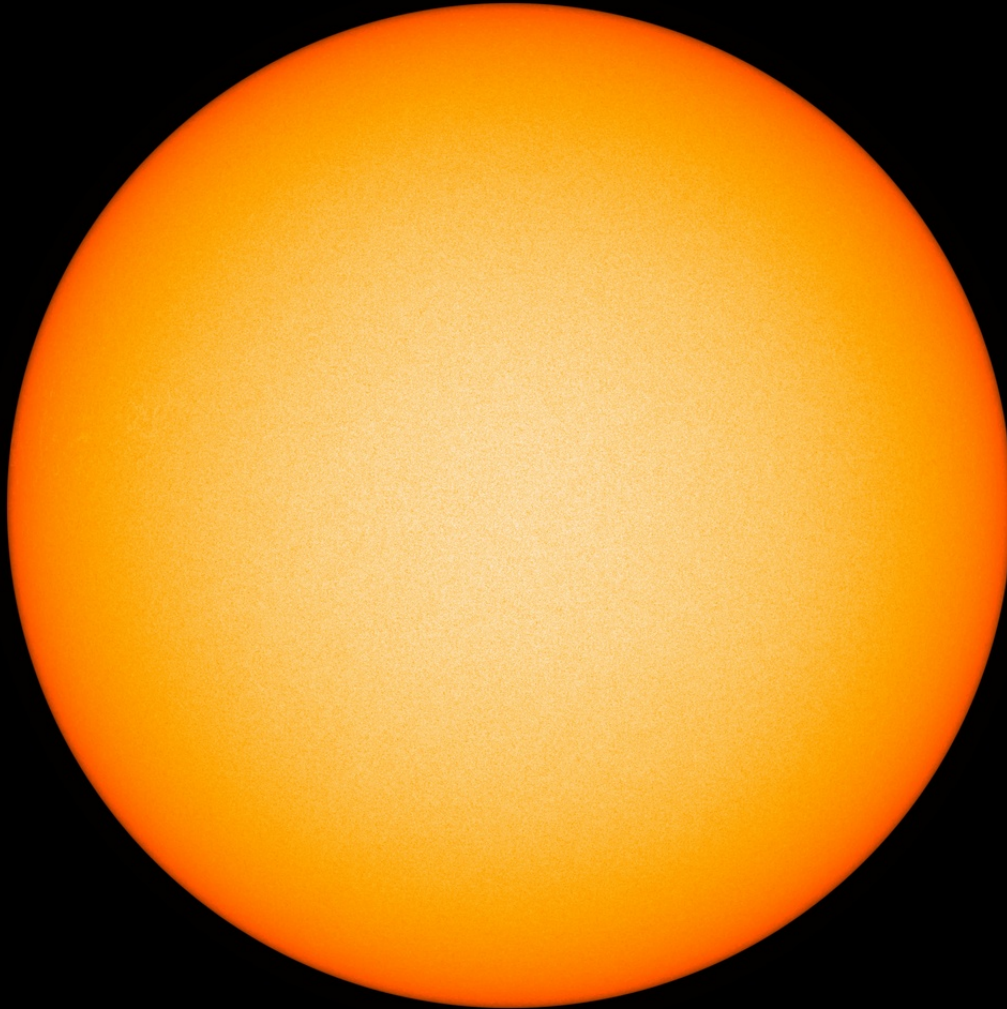
SDO/HMI Magnetogram 2019-05-29



SDO/HMI Quick-Look Magnetogram: 20190529_114500

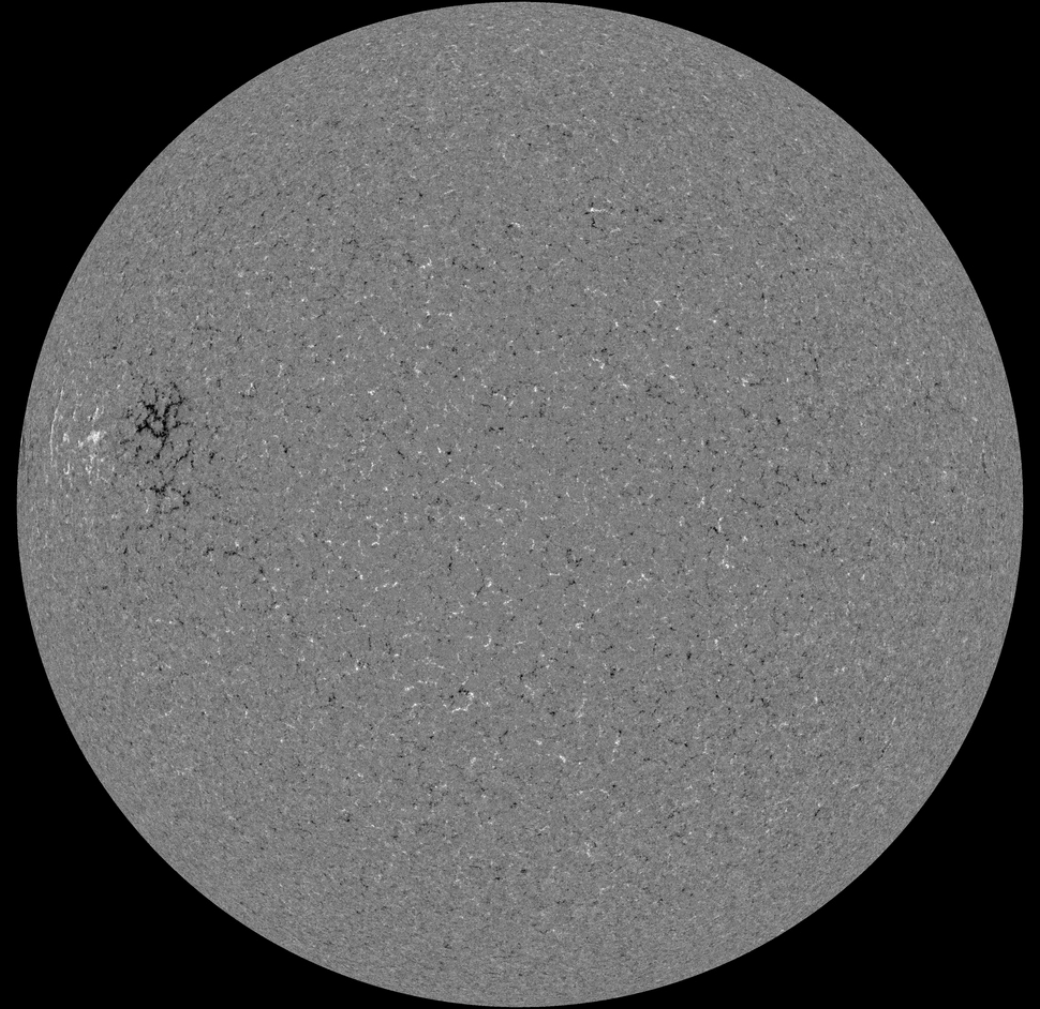
Solar active region - end of the week

SDO/HMI White Light 2019-06-02



SDO/HMI Quick-Look Continuum: 20190602_114500

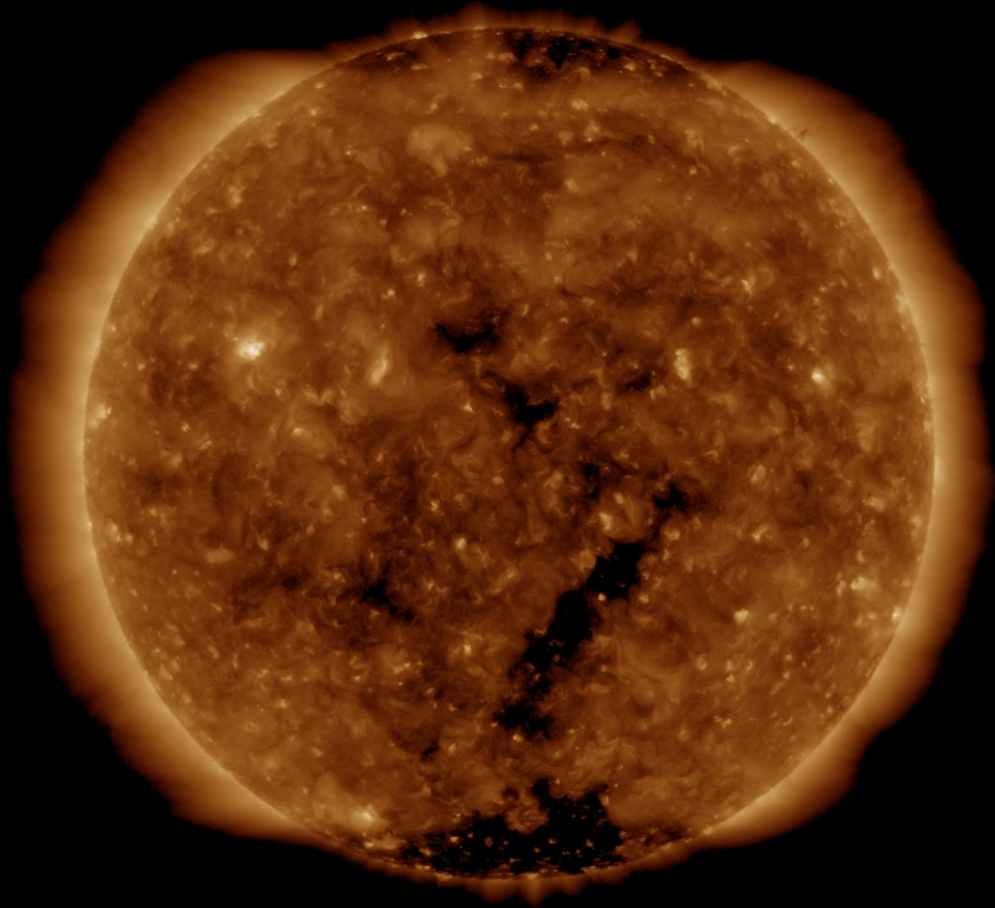
SDO/HMI Magnetogram 2019-06-02



SDO/HMI Quick-Look Magnetogram: 20190602_114500

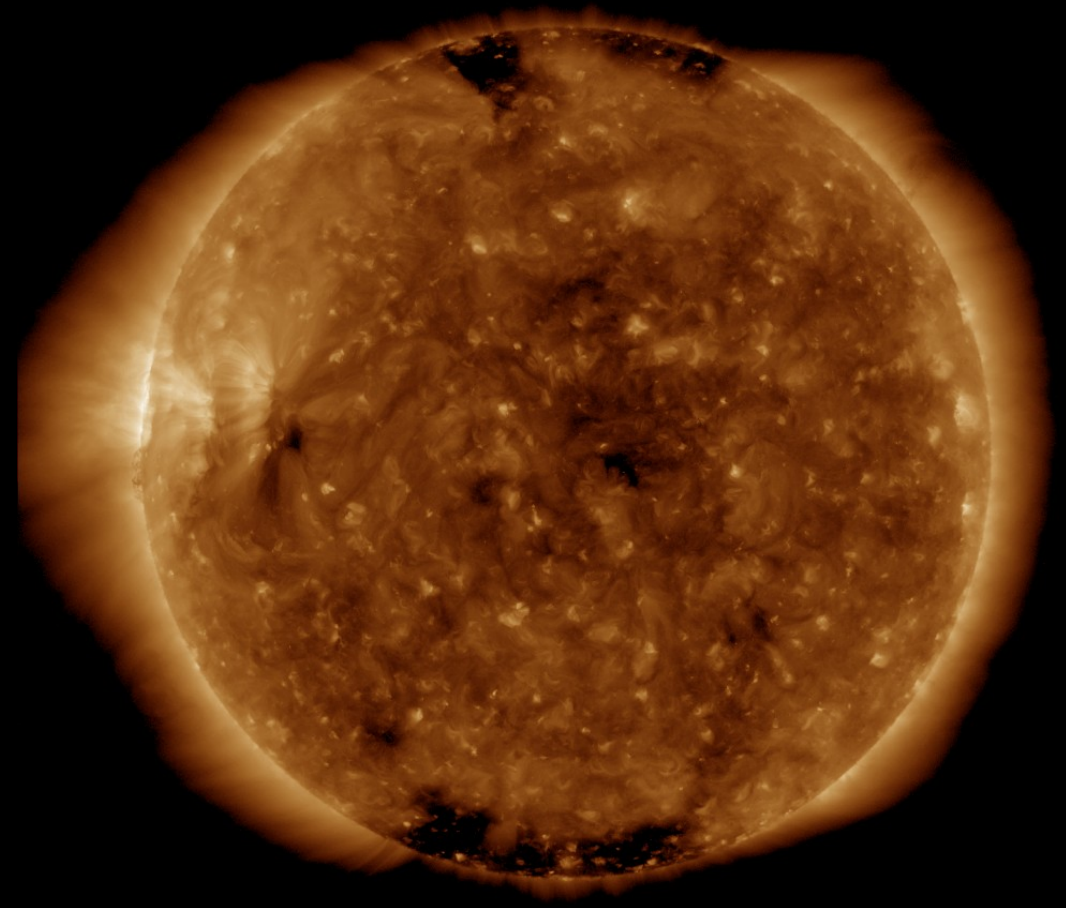
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2019-05-26



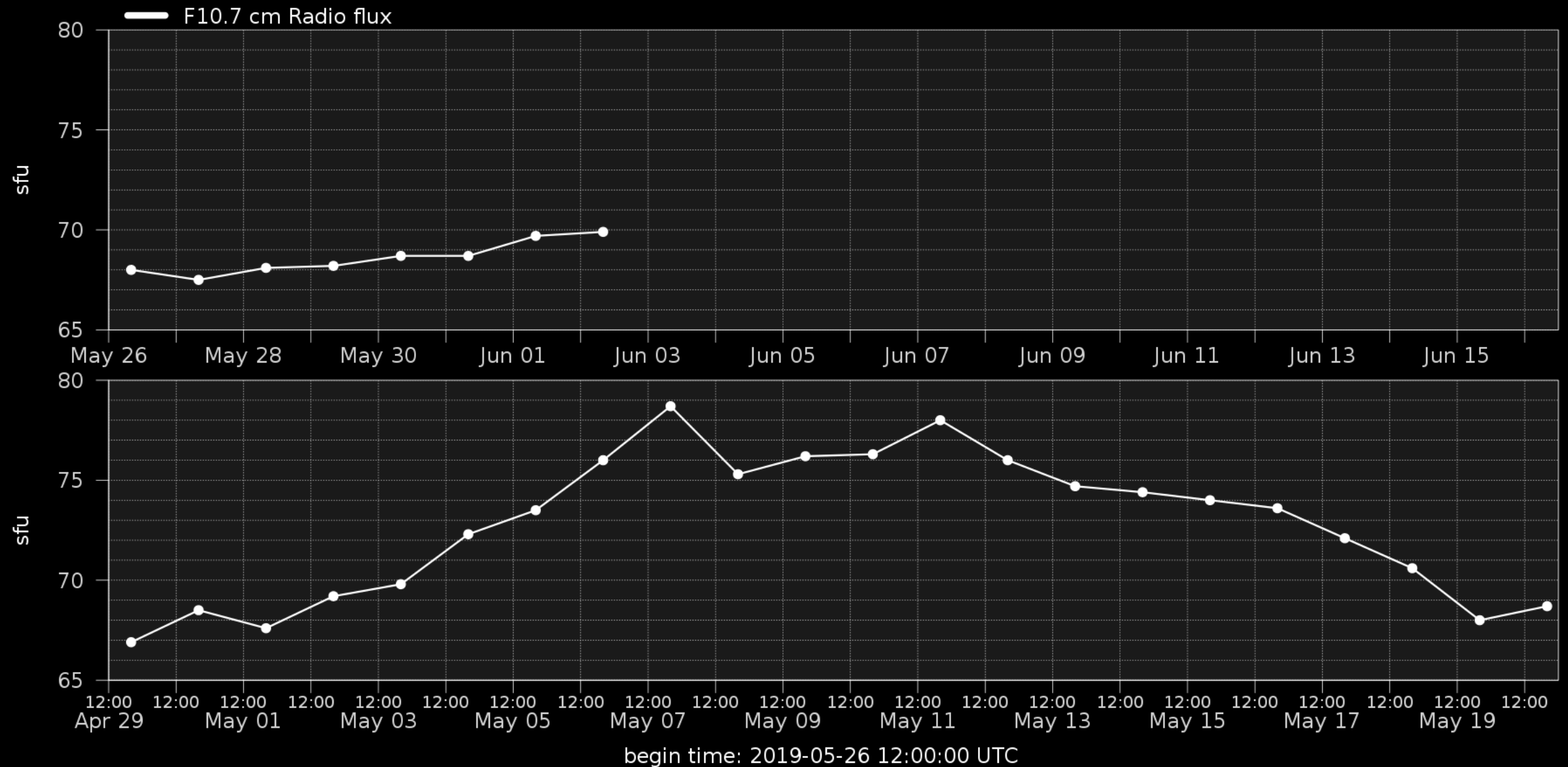
SDO/AIA 193 2019-05-26 12:10:05 UT

SDO/AIA 19.3 nm 2019-06-02

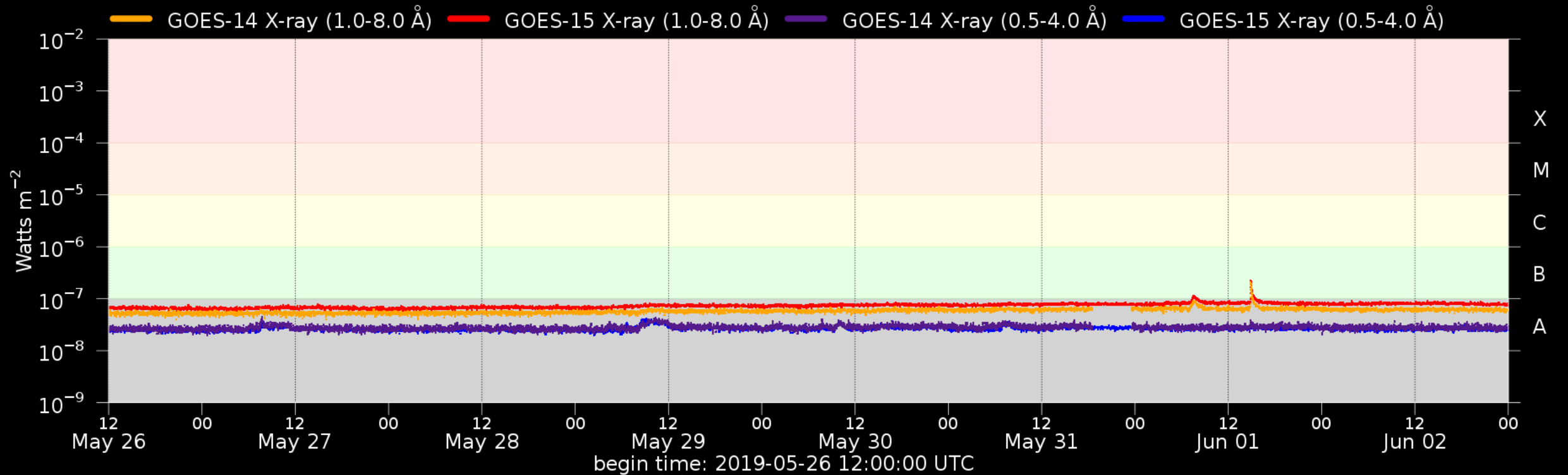


SDO/AIA 193 2019-06-02 12:10:41 UT

Solar F10.7cm radio flux



Flaring activity



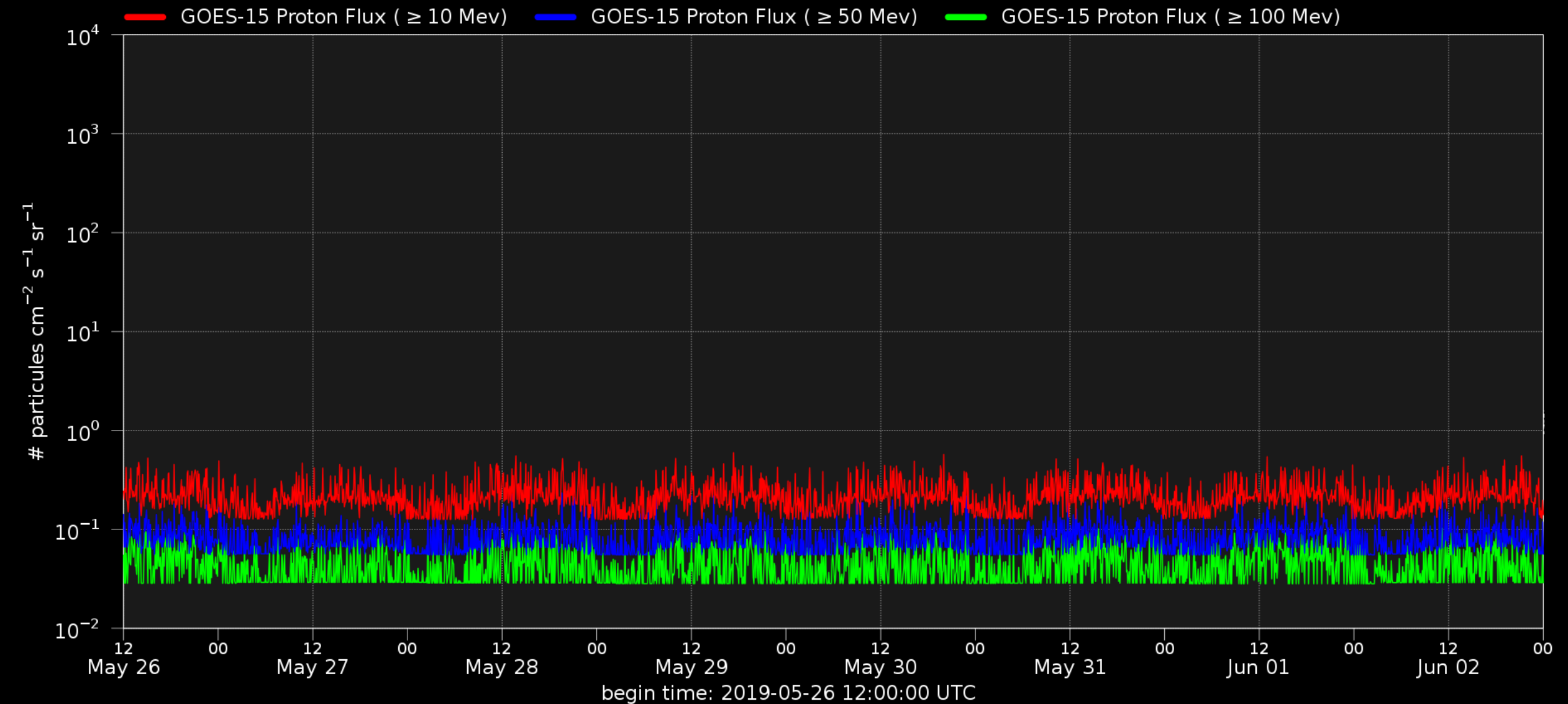
Probabilities (%) and occurrences (#) of B/C/M/X-flares issued at 12:30 and over the next 24h:

[illegible]

Coronal Mass Ejection

04:42 06/02
01:48 06/02
22:00 06/01
19:00 06/01
16:12 06/01
12:42 06/01
10:00 06/01
06:48 06/01
03:36 06/01
00:24 06/01
20:43 05/31
18:05 05/31
15:31 05/31
12:24 05/31
09:36 05/31
05:36 05/31
01:36 05/31
22:12 05/30
19:24 05/30
16:36 05/30
13:48 05/30
10:36 05/30
07:36 05/30
04:36 05/30
01:48 05/30
22:00 05/29
18:36 05/29
15:48 05/29
12:00 05/29
09:24 05/29
06:24 05/29
03:36 05/29
00:18 05/29
11:48 05/28
08:48 05/28
06:18 05/28
03:36 05/28
00:00 05/28
20:12 05/27
17:36 05/27
14:24 05/27
11:12 05/27
08:24 05/27
05:54 05/27
02:18 05/27

Solar proton flux

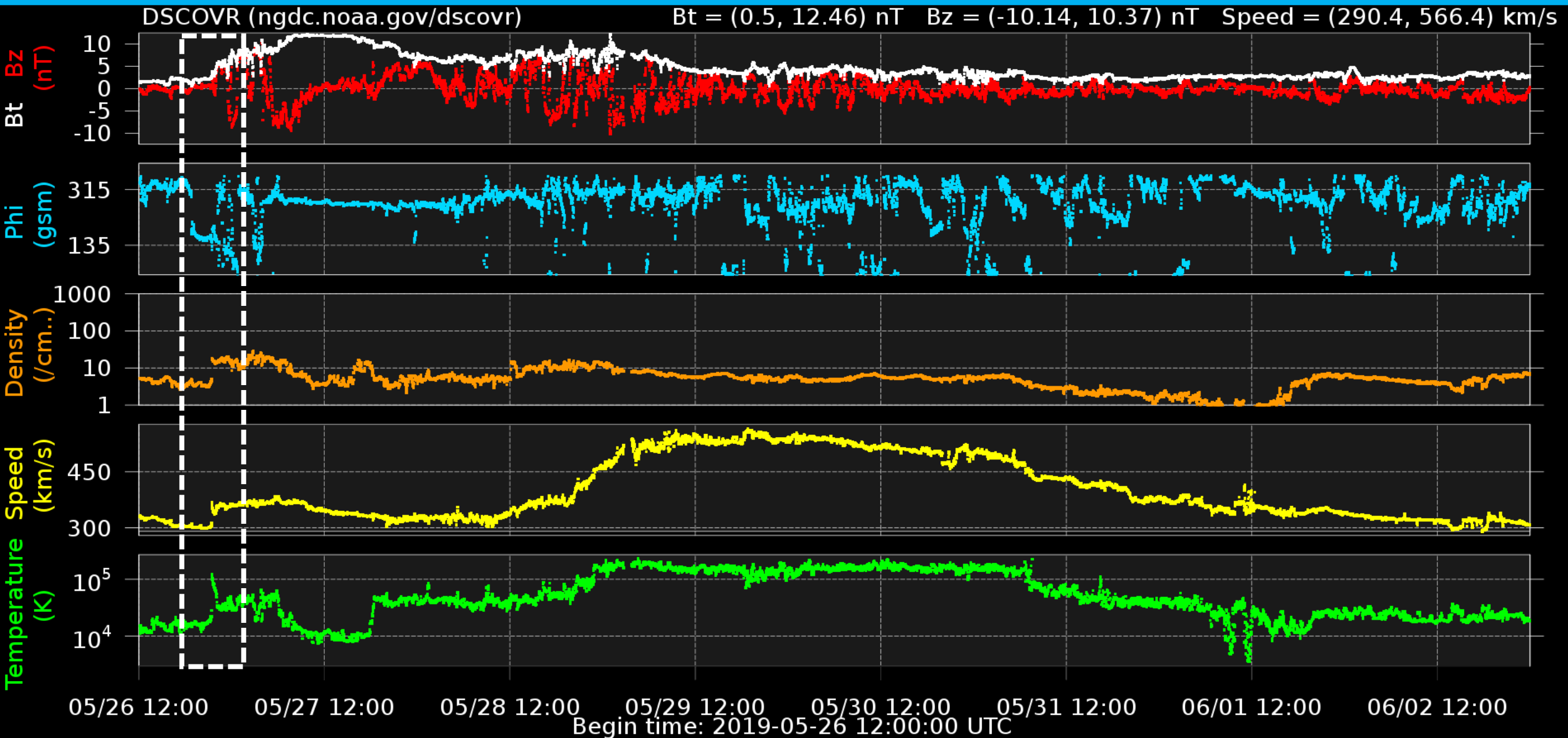


Solar Wind and Geomagnetic Activity



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Solar wind parameters (DSCOVR data)

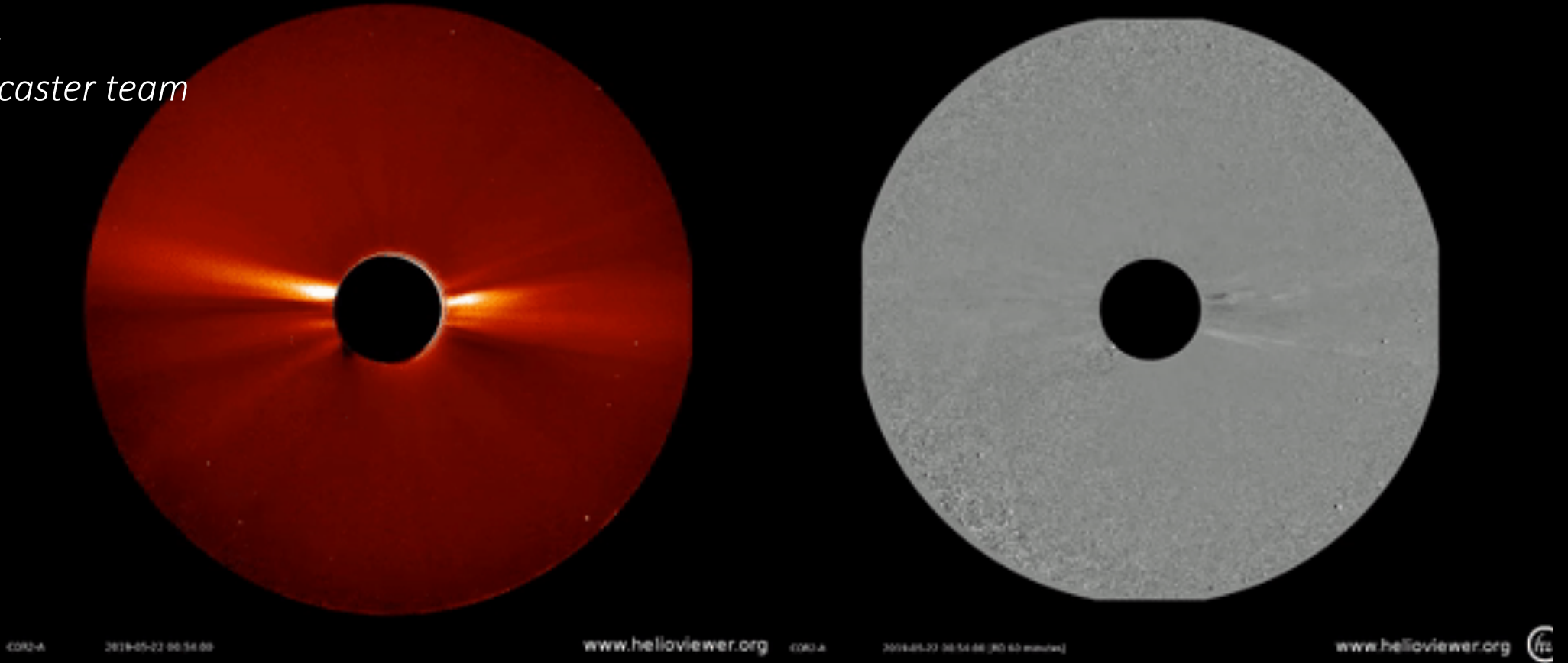


Coronal Mass Ejection

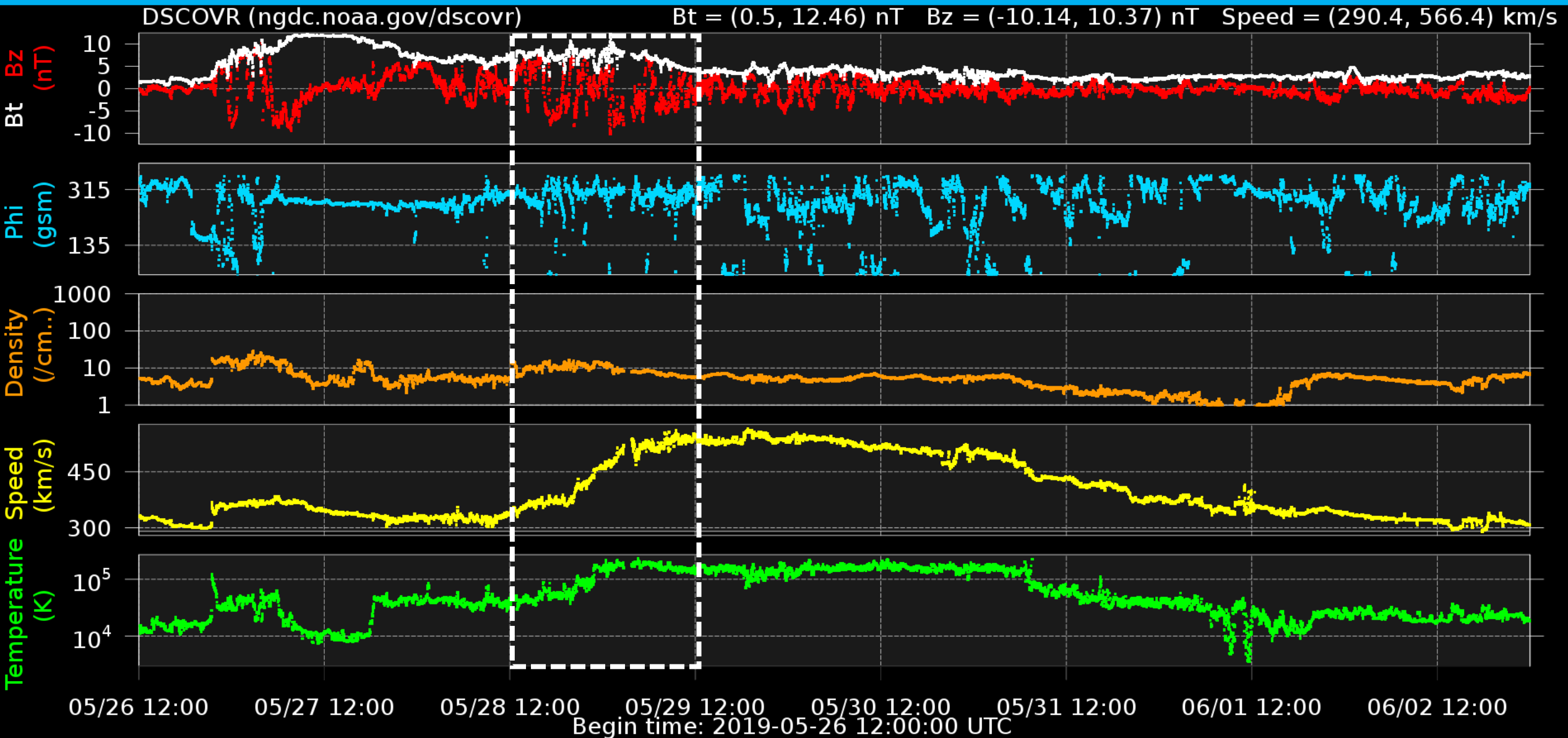
Last space weather briefing:

19 May 2019 - 26 May 2019

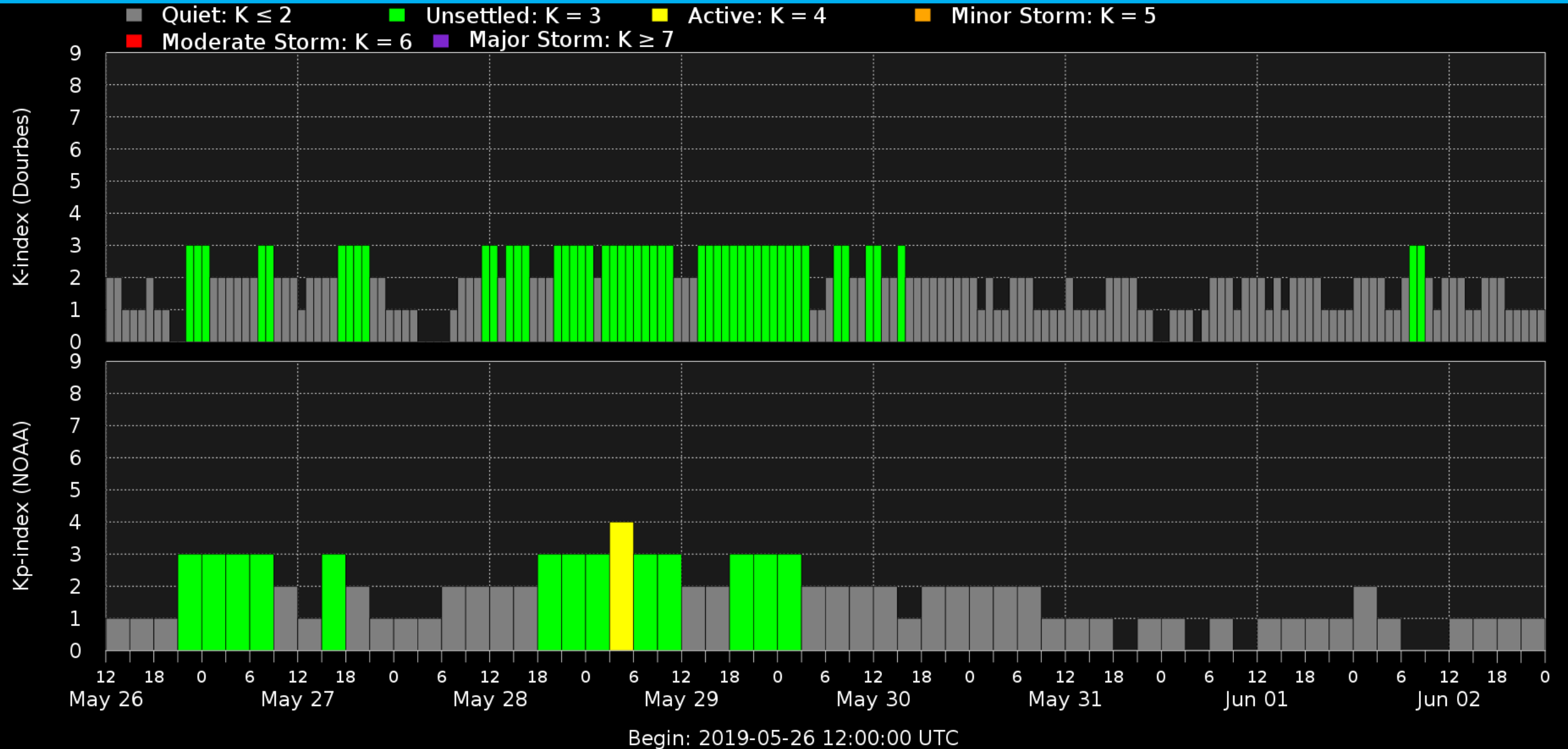
*Jennifer O'Hara
& the SIDC forecaster team*



Solar wind parameters (DSCOVR data)

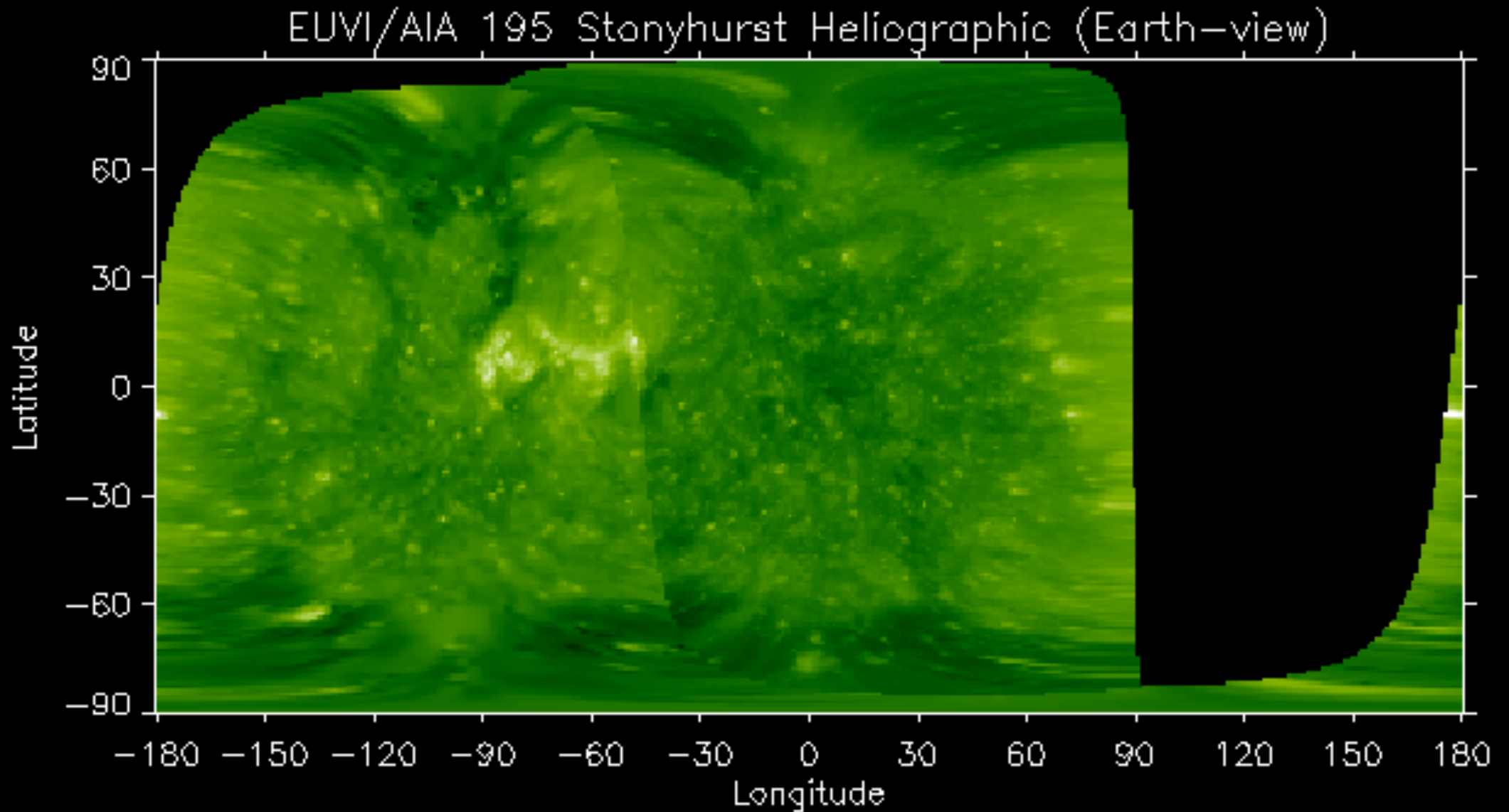


Geomagnetic activity (K-indexes)

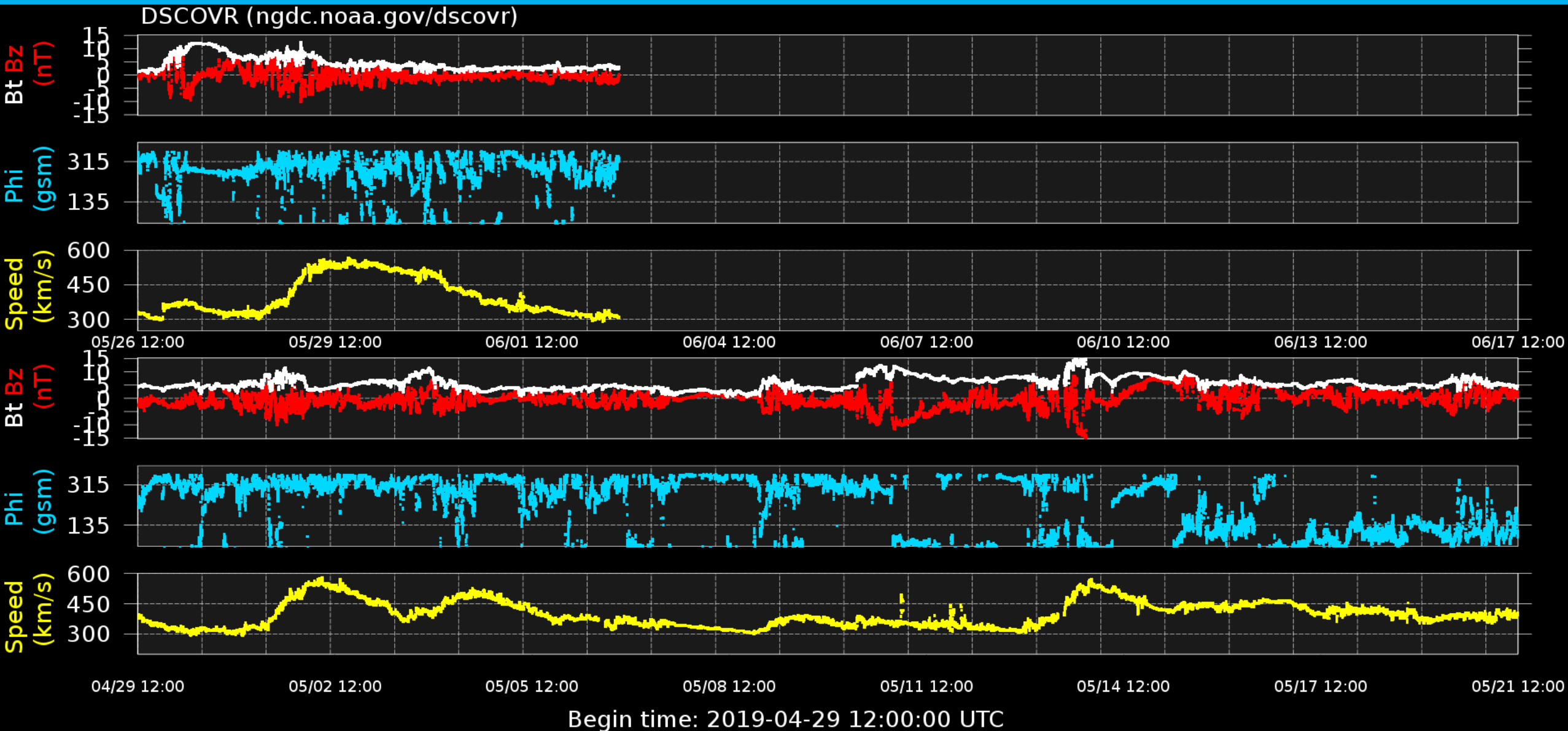


Outlook

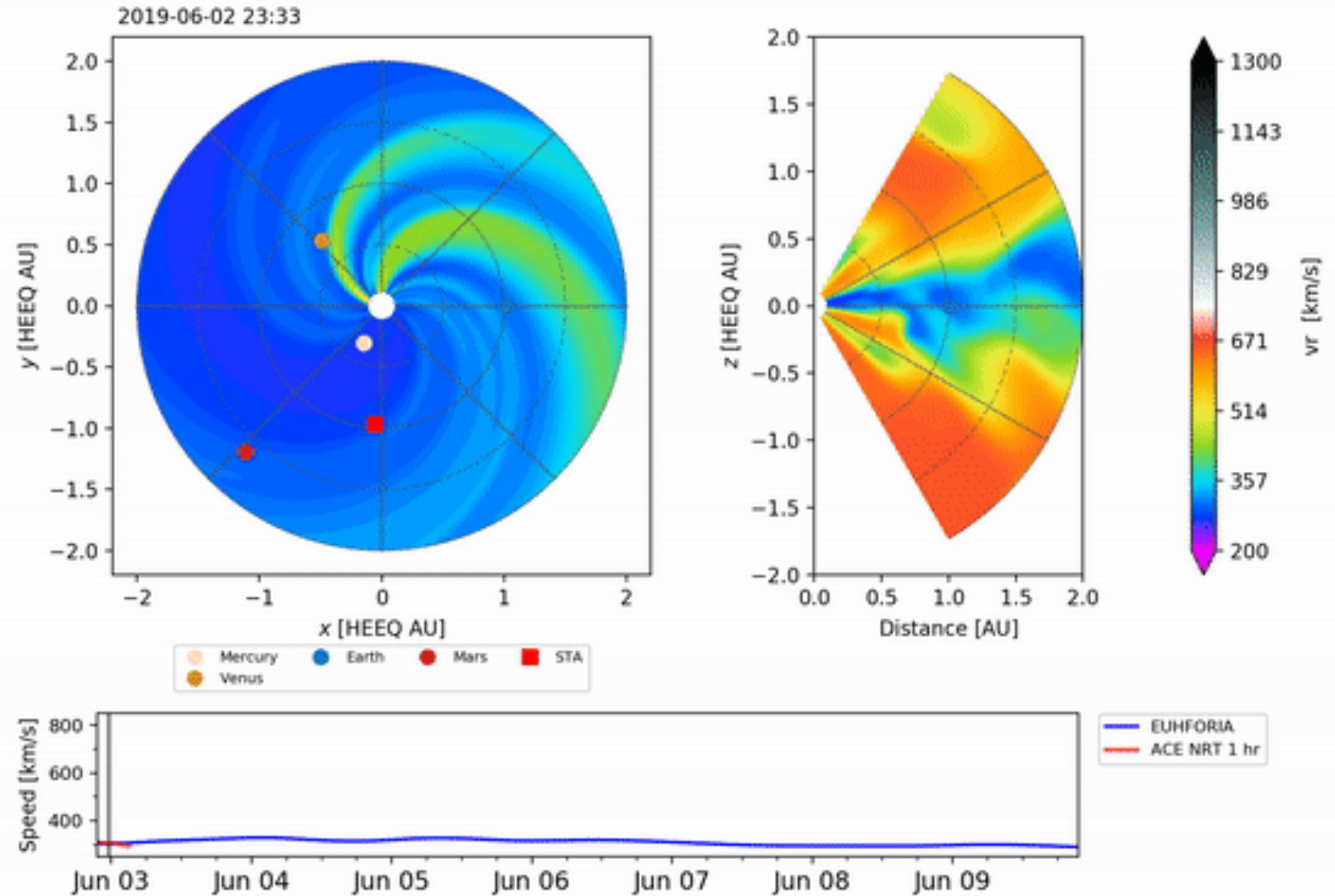
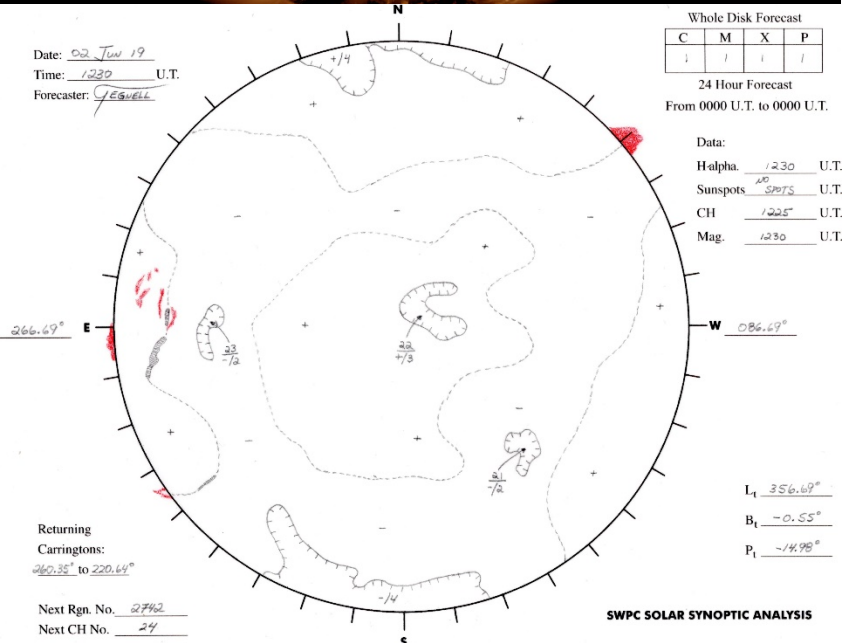
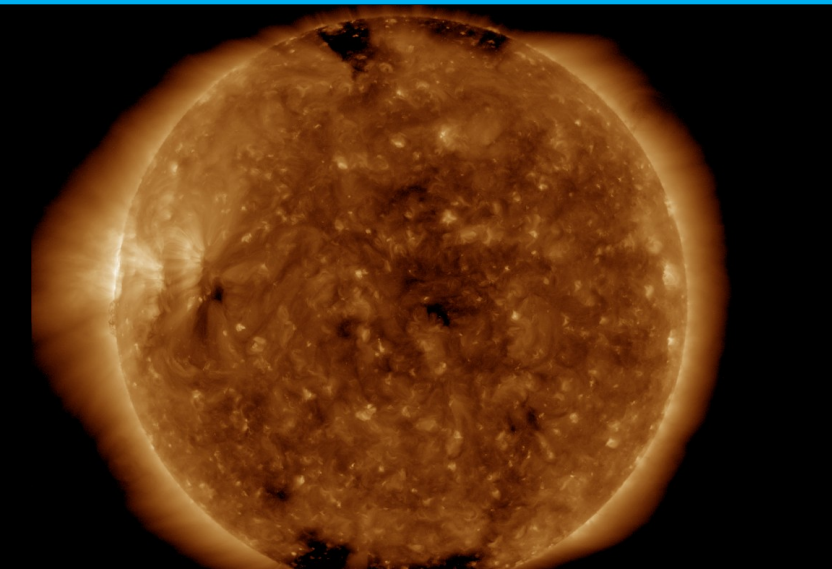
Outlook: Solar activity

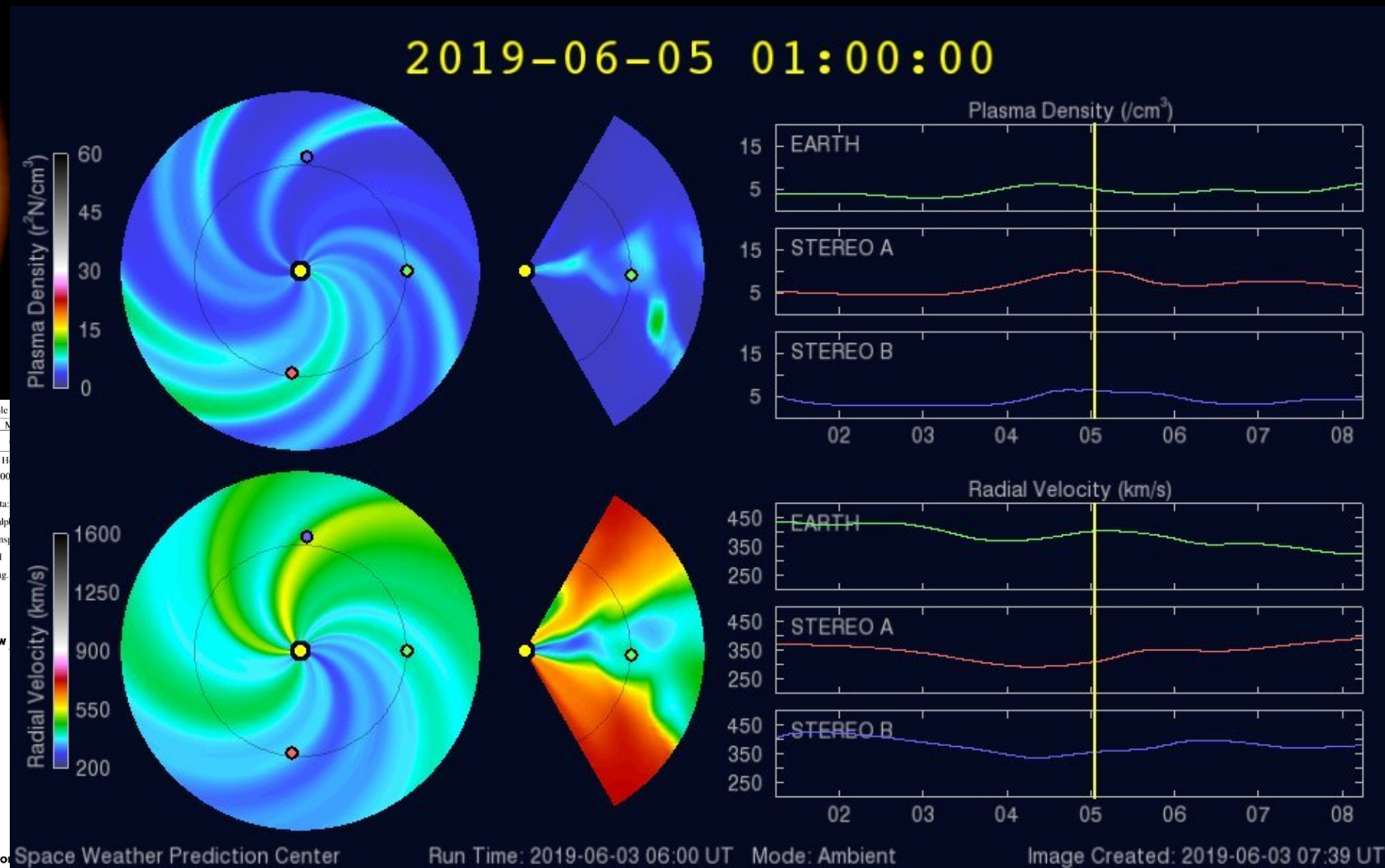
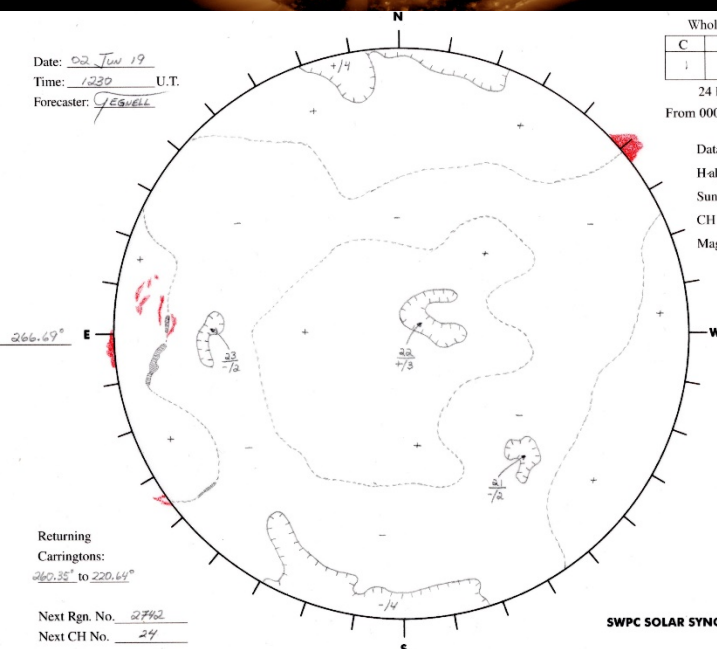


Outlook: Solar wind

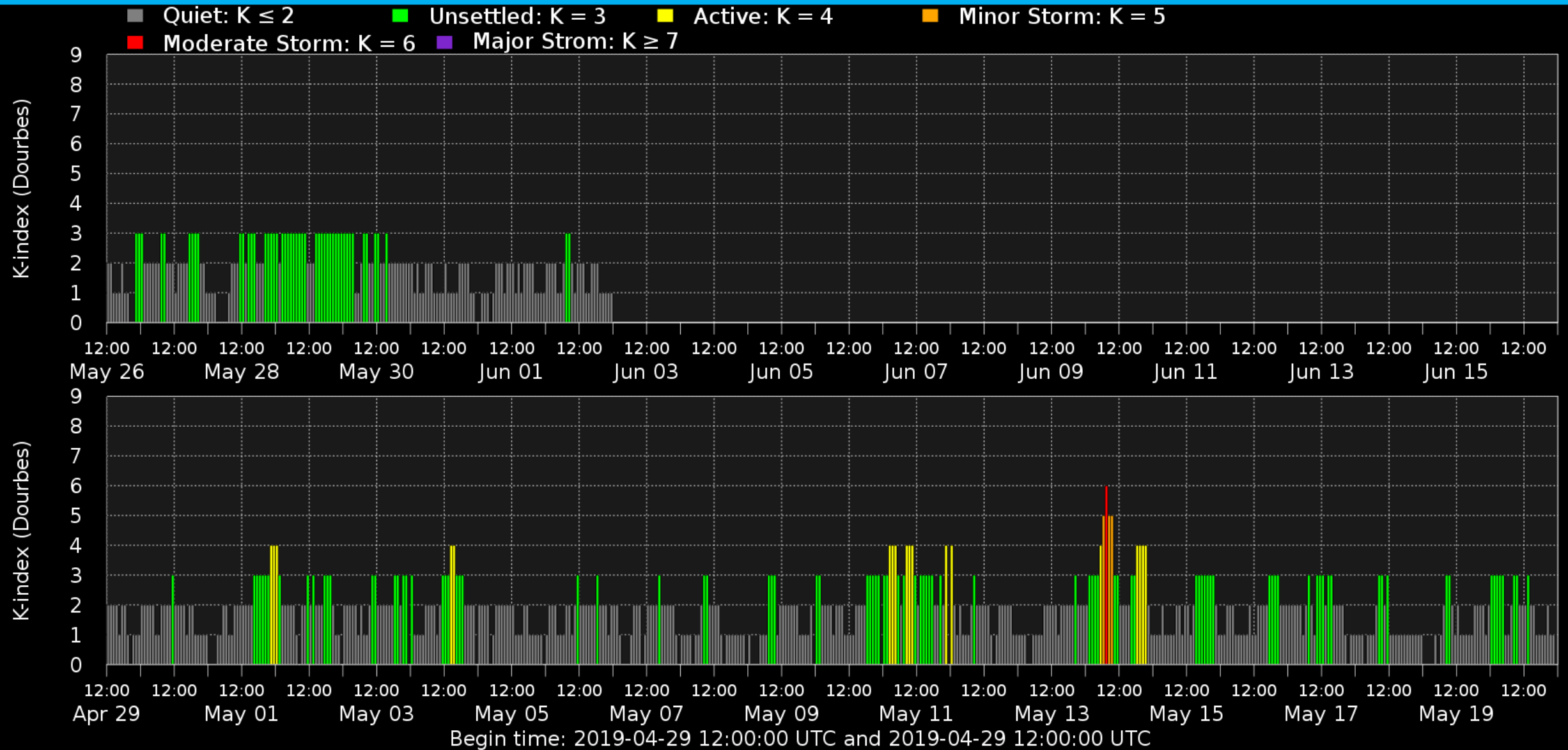


Outlook: Solar wind





Outlook: Geomagnetic activity



SIDC Space Weather Briefing

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