

SIDC Space Weather Briefing

23 June 2019 - 30 June 2019

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& the SIDC forecaster team



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Summary Report

Solar activity from 2019-06-23 12:00 UT to 2019-06-30 12:00 UT

Active regions	NOAA AR 2742 & NOAA AR 2743
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	No large filament eruptions
CMEs	No wide CMEs reported
Proton Events	No

Solar wind and geomagnetic conditions from 2019-06-23 12:00 UT to 2019-06-30 12:00 UT

Coronal Holes	Small, negative polarity coronal hole (between S20 and S40) reached the central meridian in the evening of June 27.
ICME	No
SW Conditions	Slow solar wind
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 3

Solar Activity

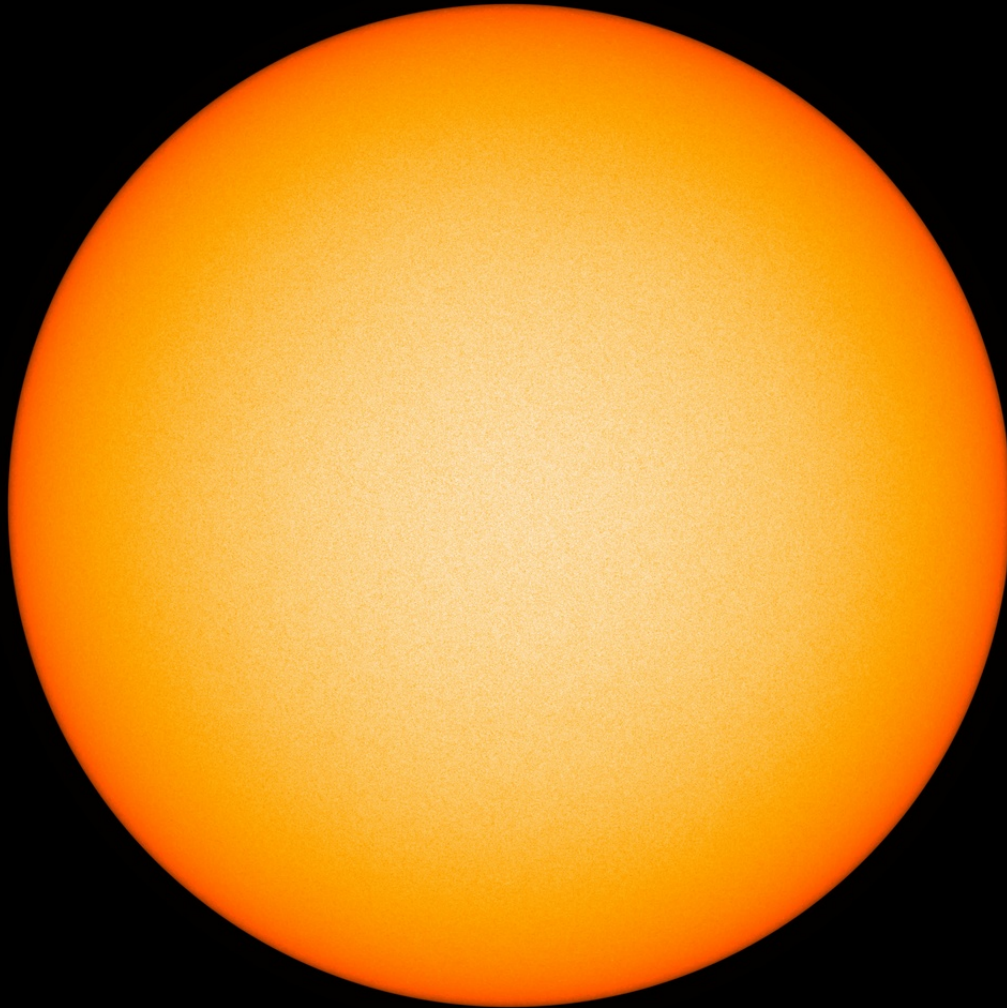


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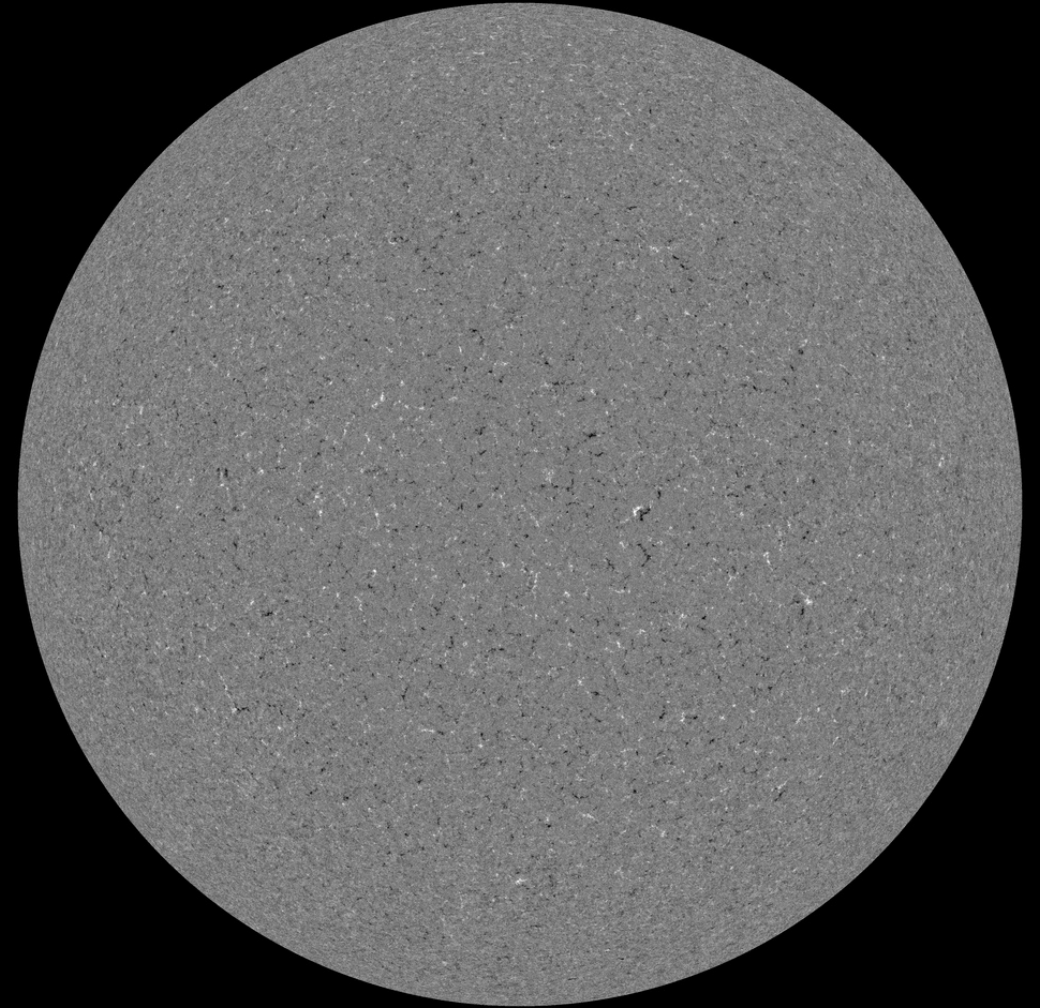
Solar active region - start of the week

SDO/HMI White Light 2019-06-23



SDO/HMI Quick-Look Continuum: 20190623_003000

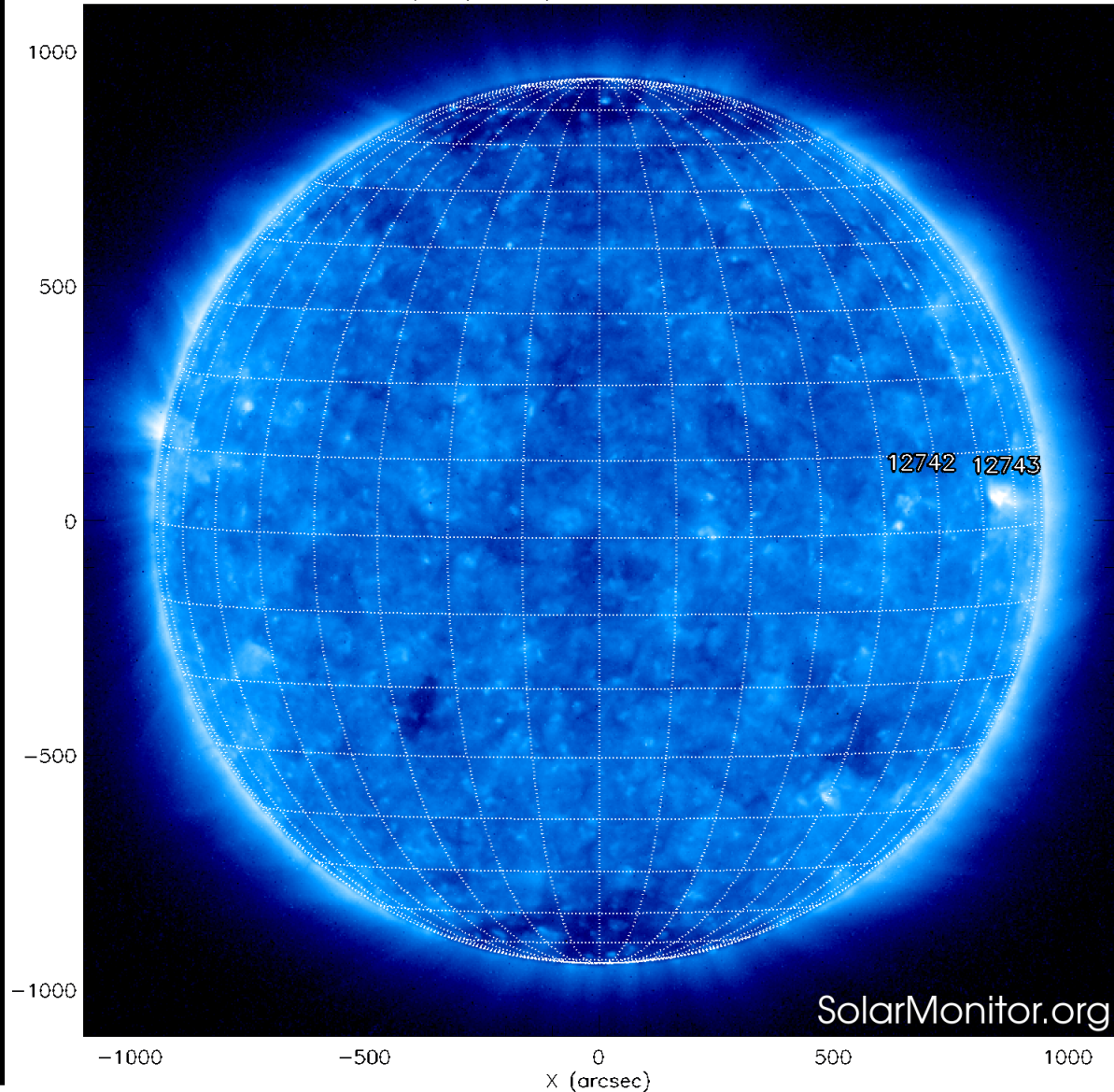
SDO/HMI Magnetogram 2019-06-23



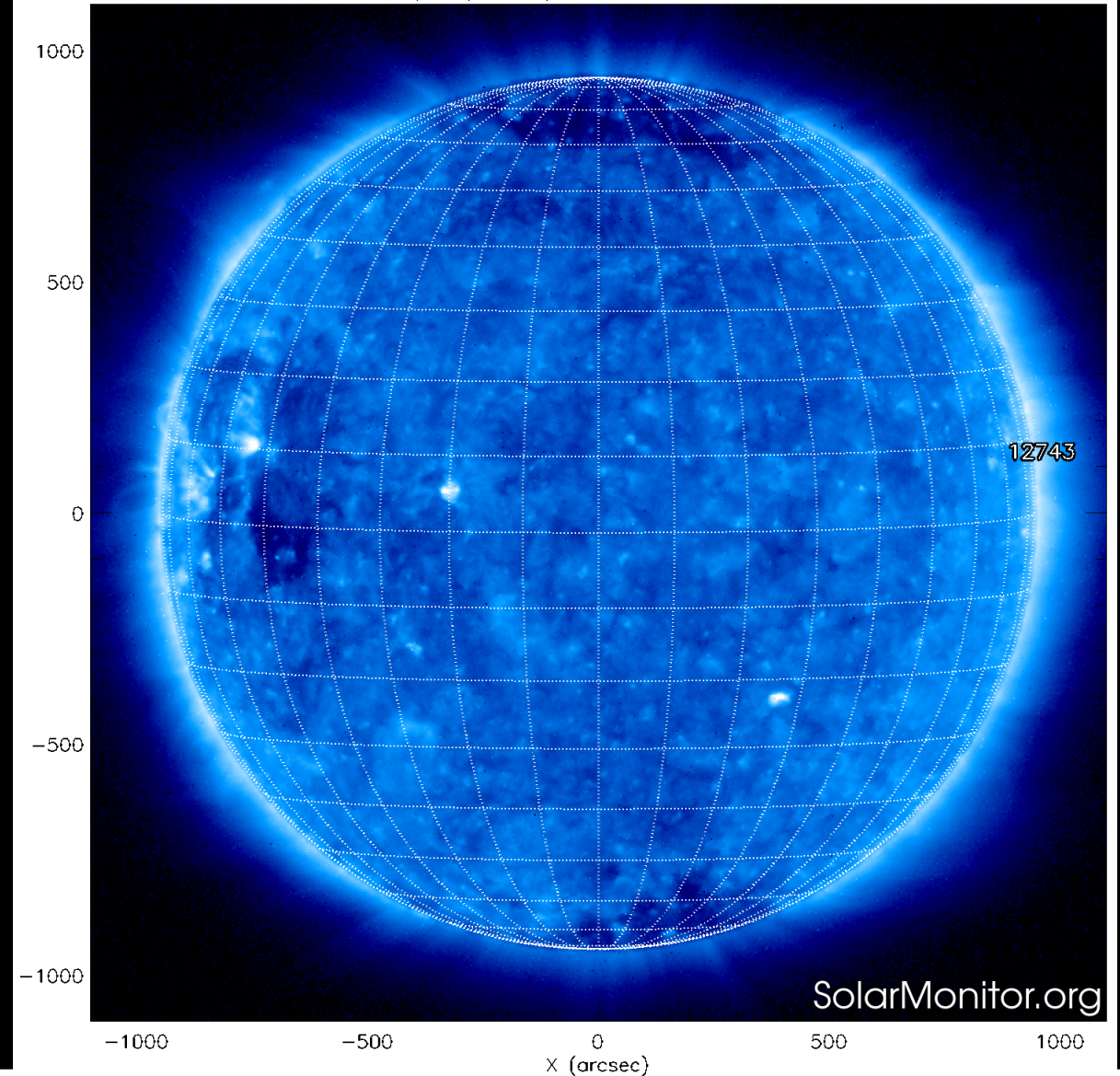
SDO/HMI Quick-Look Magnetogram: 20190623_001500

Solar active regions

SWAP Fe IX/X (174 Å) 25-Jun-2019 20:26:23.175

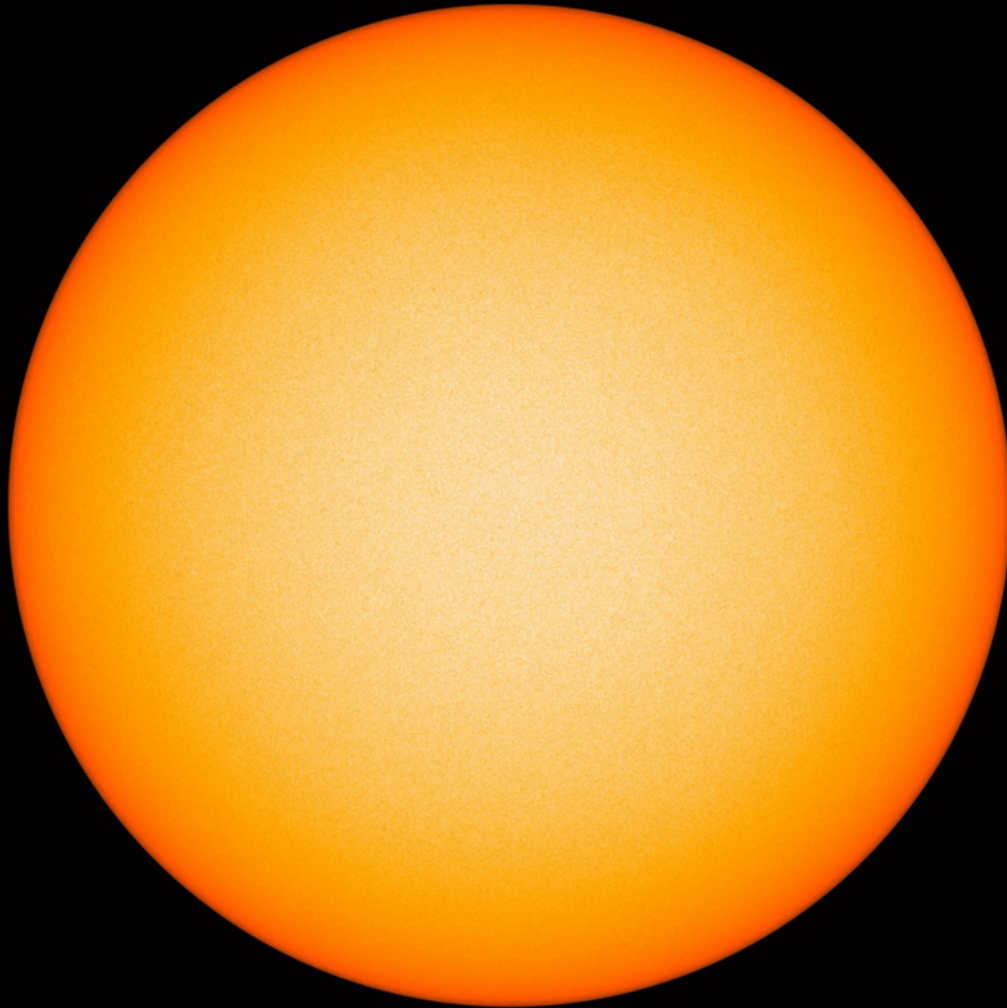


SWAP Fe IX/X (174 Å) 28-Jun-2019 19:31:03.528



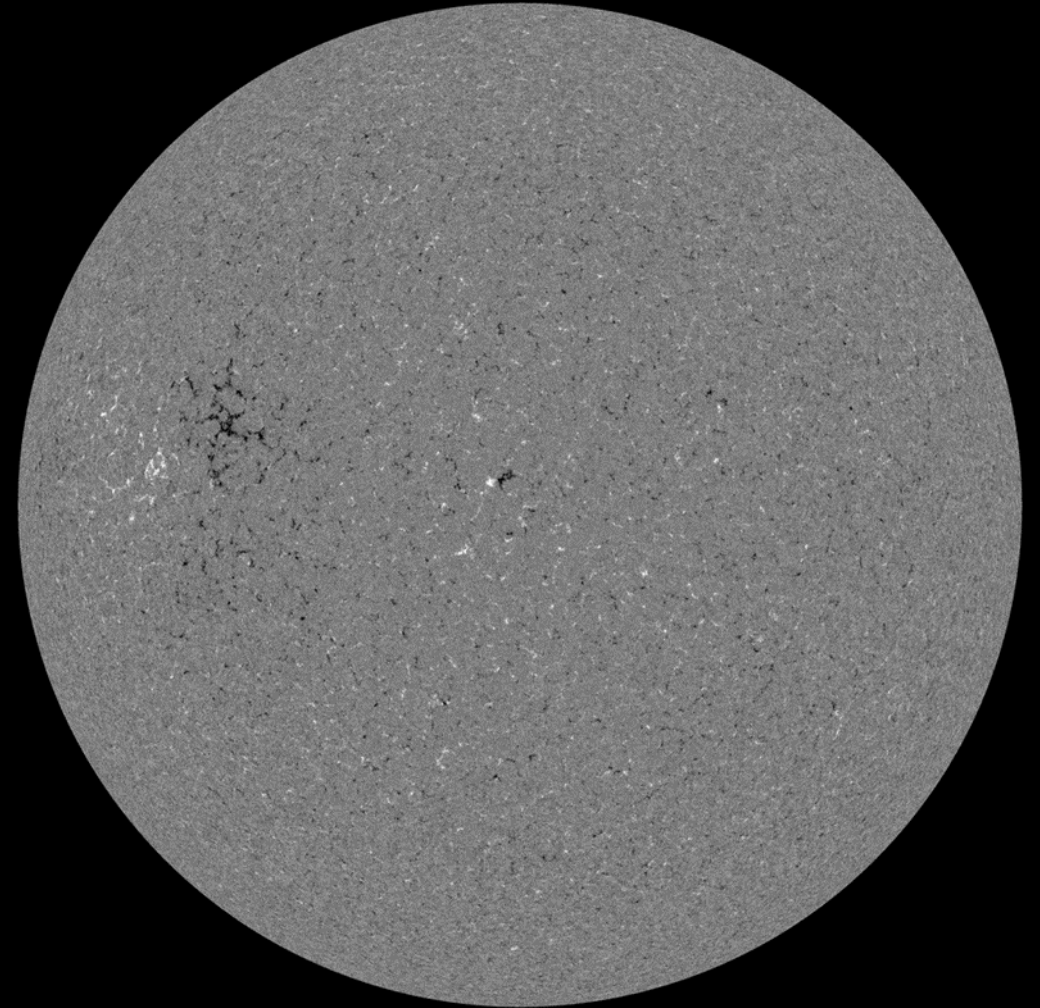
Solar active region - end of the week

SDO/HMI White Light 2019-06-30



SDO/HMI Quick-Look Continuum: 20190630_010000

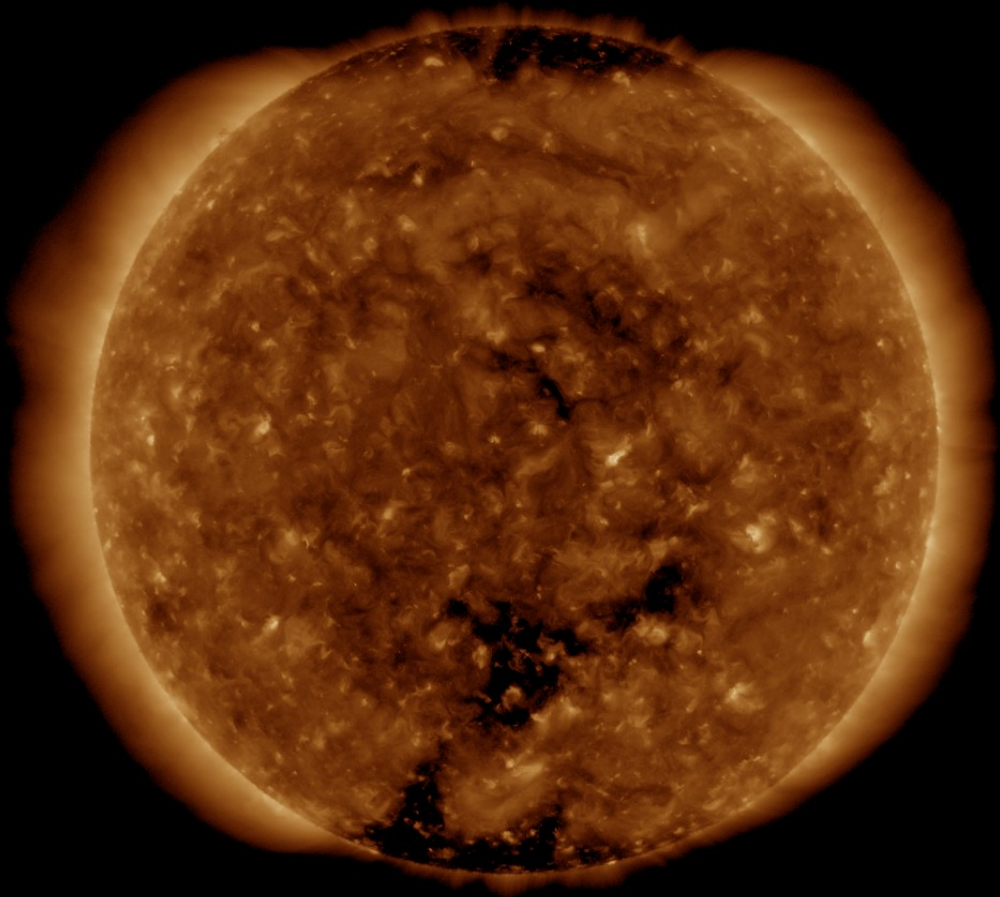
SDO/HMI Magnetogram 2019-06-30



SDO/HMI Quick-Look Magnetogram: 20190630_011500

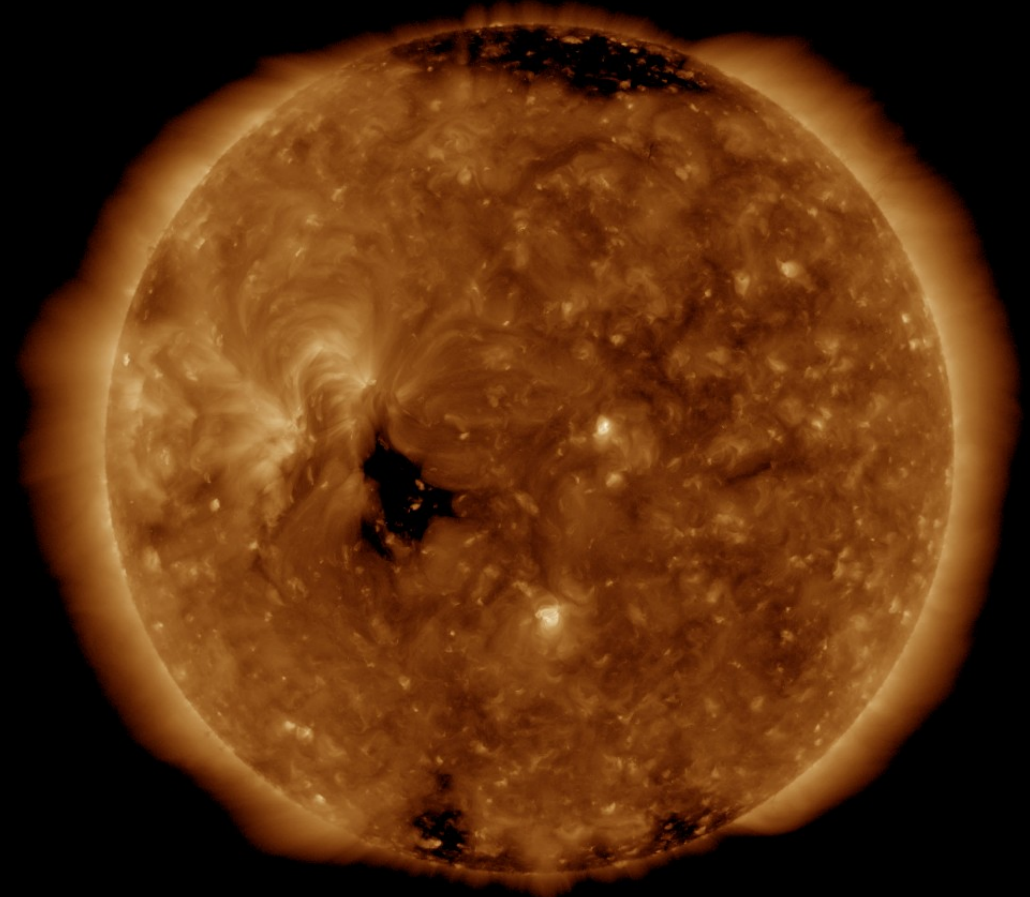
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2019-06-23



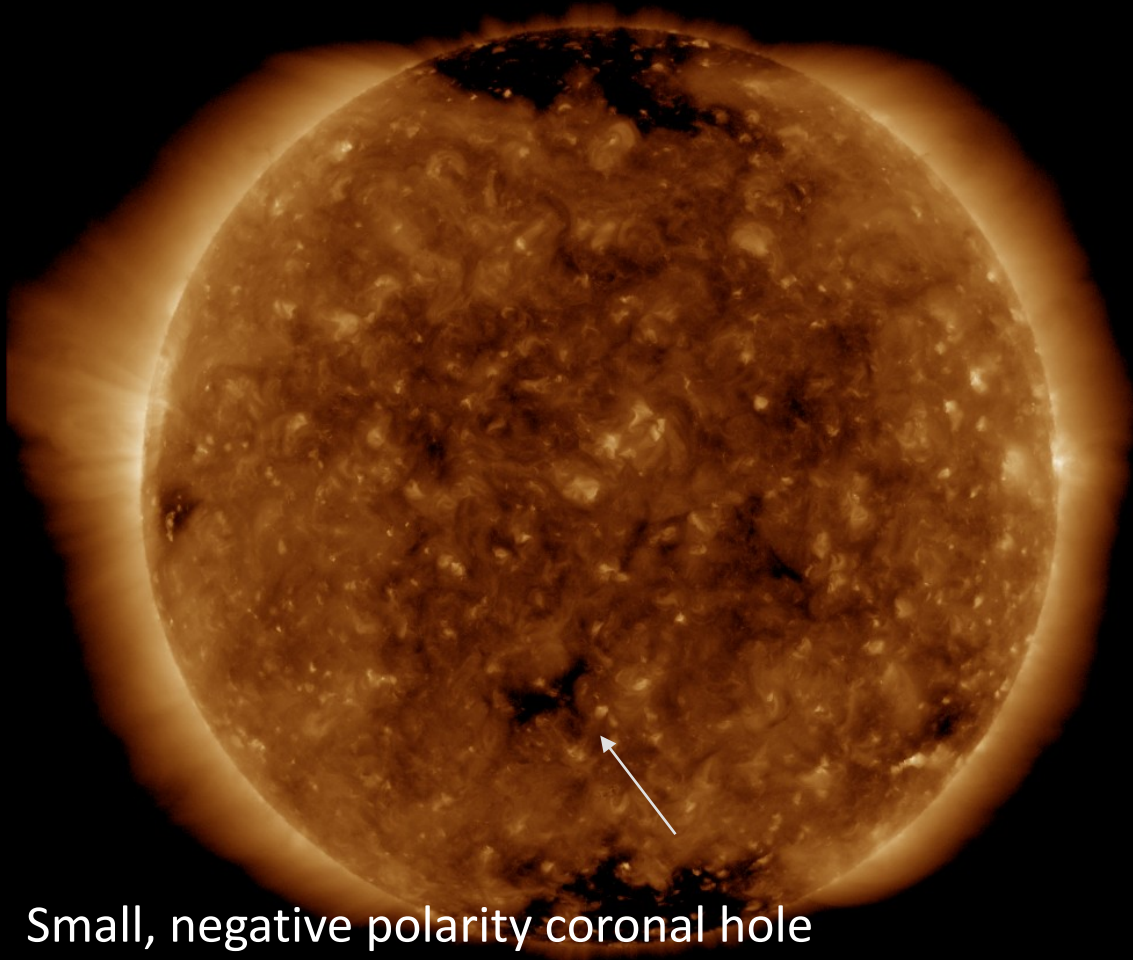
SDO/AIA 193 2019-06-23 00:10:05 UT

SDO/AIA 19.3 nm 2019-06-30



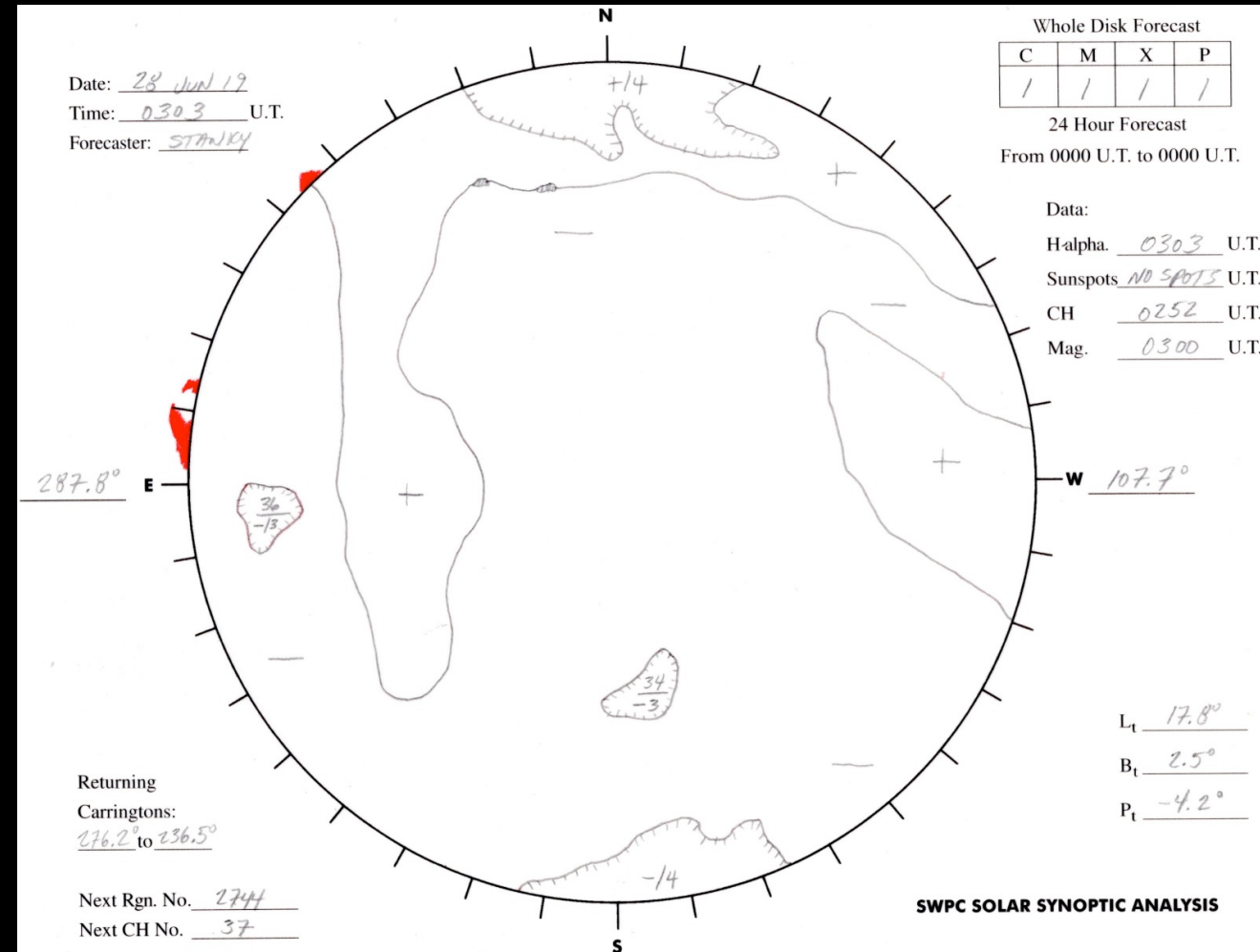
SDO/AIA 193 2019-06-30 23:40:53 UT

Coronal hole



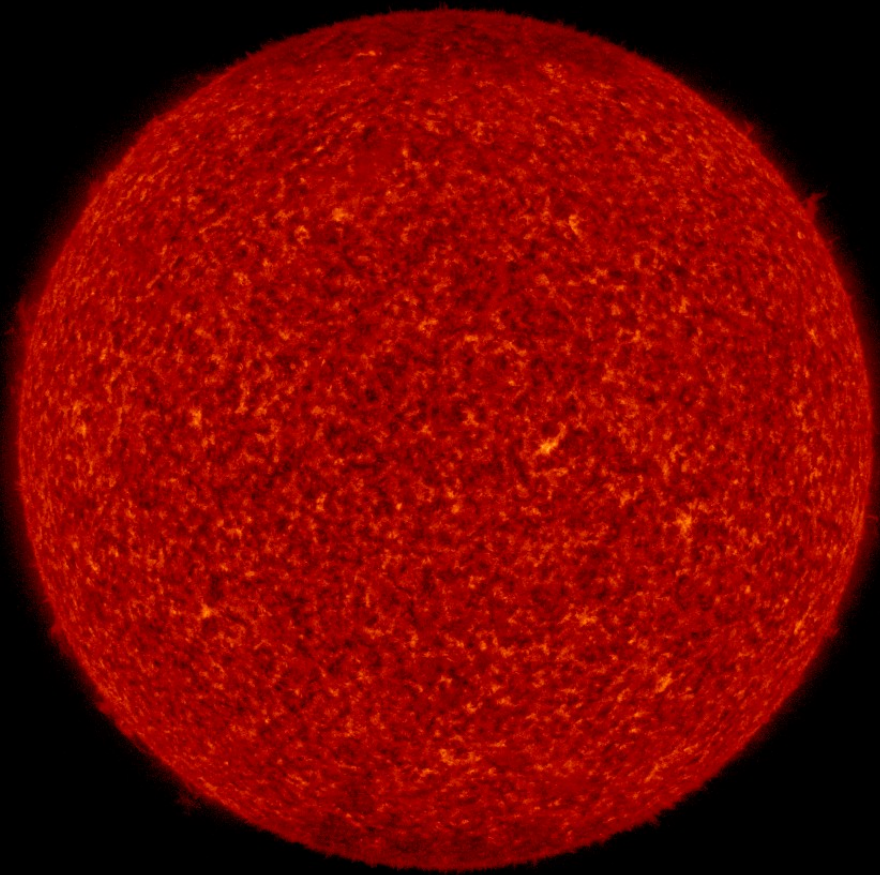
Small, negative polarity coronal hole
(between S20 and S40)

SDO/AIA 193 2019-06-27 06:21:29 UT



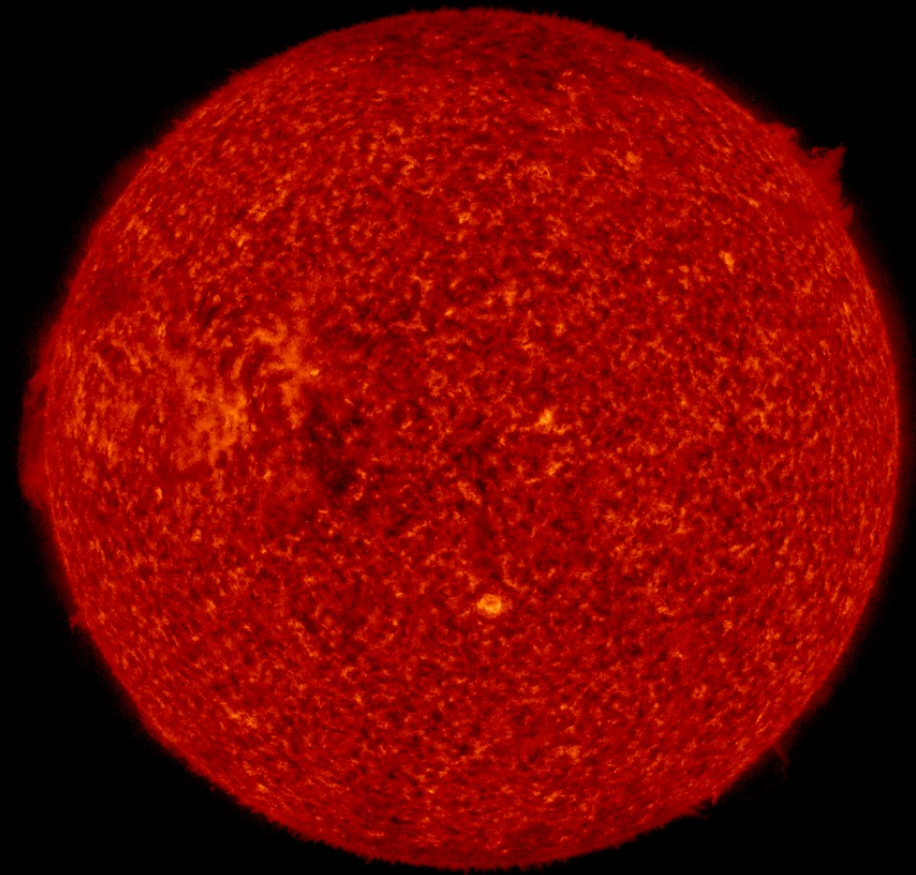
Solar active region & Filament

SDO/AIA 30.4 nm 2019-06-23



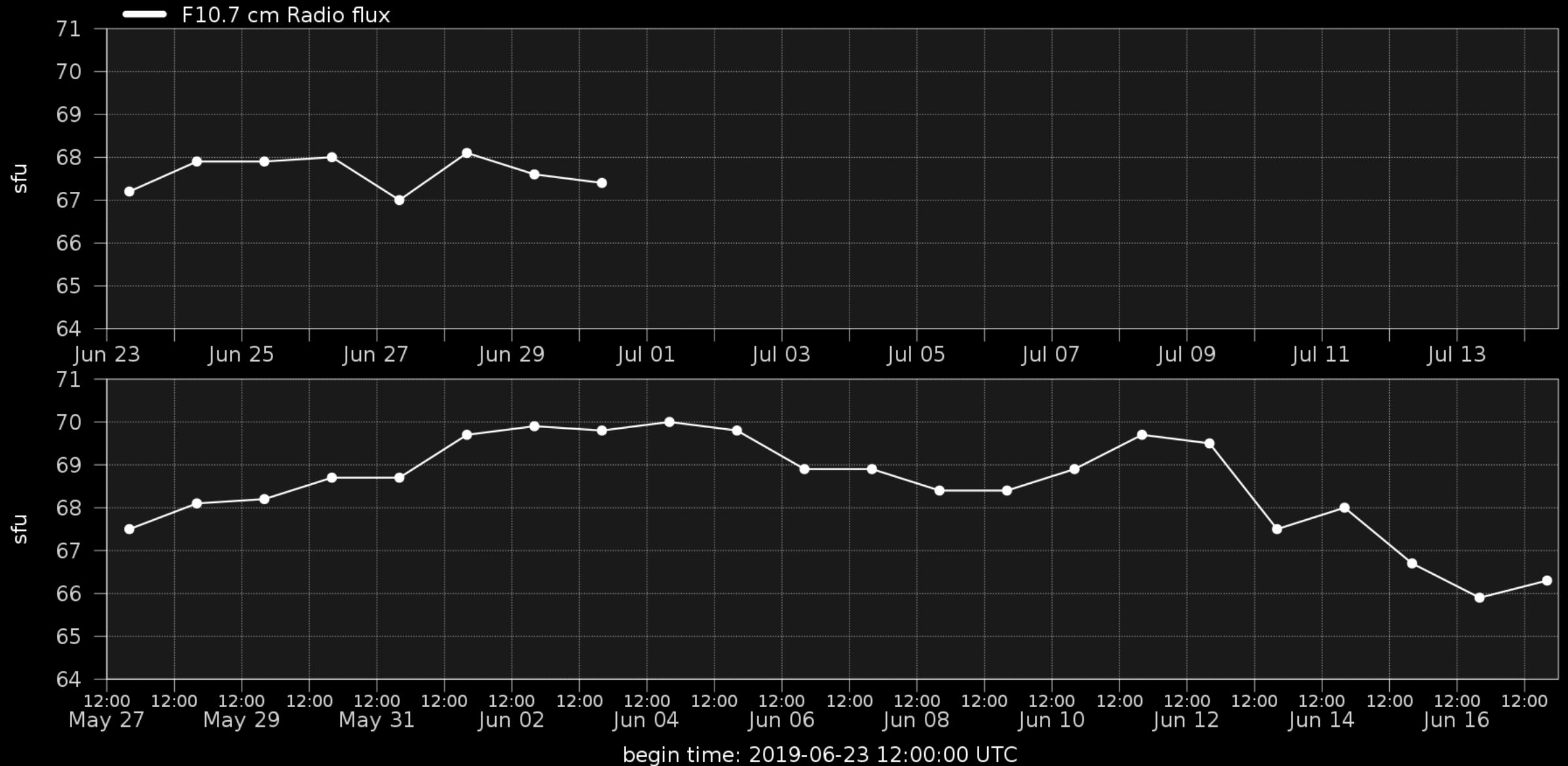
SDO/AIA 304 2019-06-23 00:28:54 UT

SDO/AIA 30.4 nm 2019-06-30

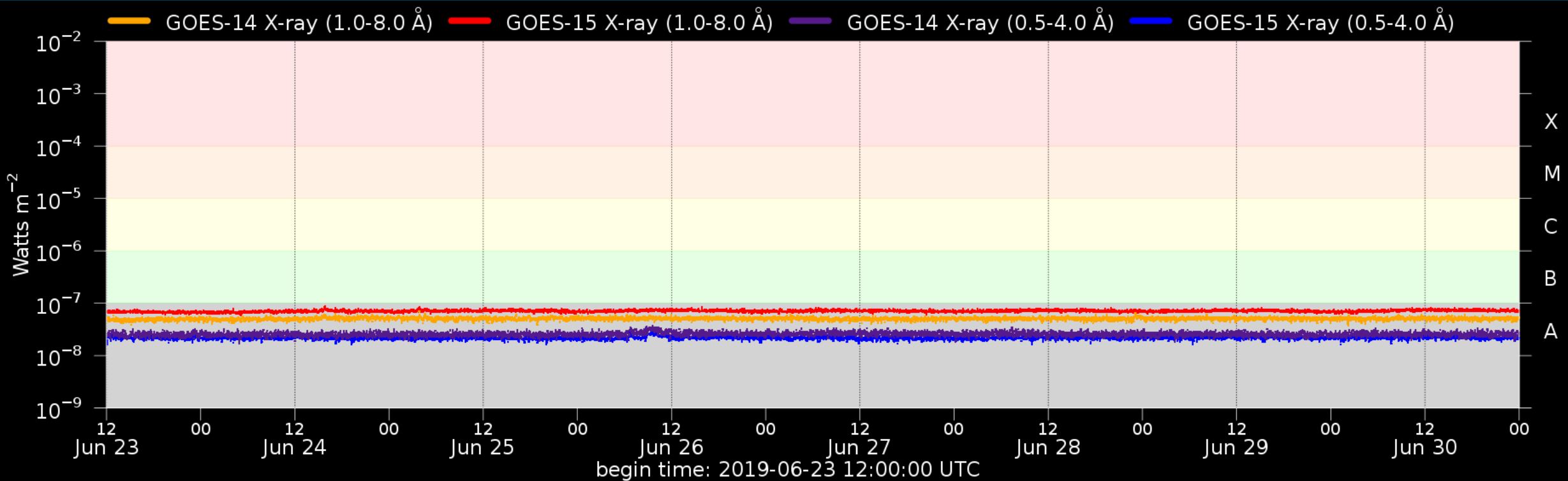


SDO/AIA 304 2019-06-30 23:44:06 UT

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:

Issue date	2019-06-23	2019-06-24	2019-06-25	2019-06-26	2019-06-27	2019-06-28	2019-06-29	2019-06-30
Probability	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 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 wide CMEs.
- Only few very narrow, slow and weak CMEs observed.

S

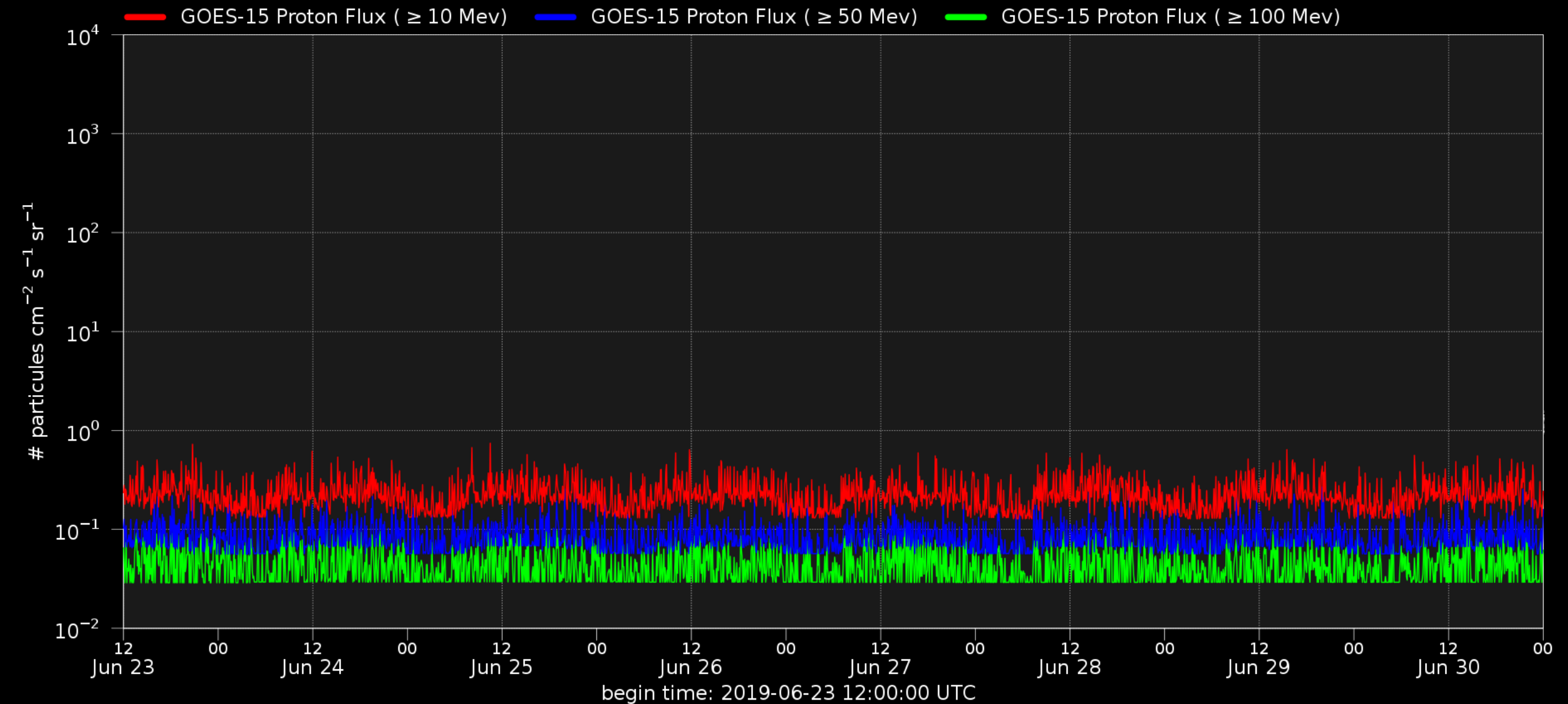
W

N

E

20:36 06/30
17:36 06/30
14:48 06/30
11:48 06/30
08:48 06/30
06:12 06/30
03:24 06/30
23:48 06/29
20:36 06/29
17:48 06/29
15:12 06/29
12:24 06/29
09:12 06/29
06:12 06/29
03:12 06/29
23:54 06/28
20:48 06/28
17:24 06/28
14:30 06/28
11:48 06/28
08:24 06/28
05:00 06/28
00:12 06/28
20:36 06/27
18:00 06/27
15:12 06/27
12:12 06/27
09:12 06/27
06:48 06/27
03:48 06/27
00:36 06/27
21:12 06/26
18:00 06/26
15:27 06/26
12:00 06/26
09:18 06/26
06:12 06/26
03:48 06/26
00:24 06/26
21:36 06/25
18:24 06/25
15:54 06/25
12:00 06/25
08:48 06/25
06:00 06/25

Solar proton flux

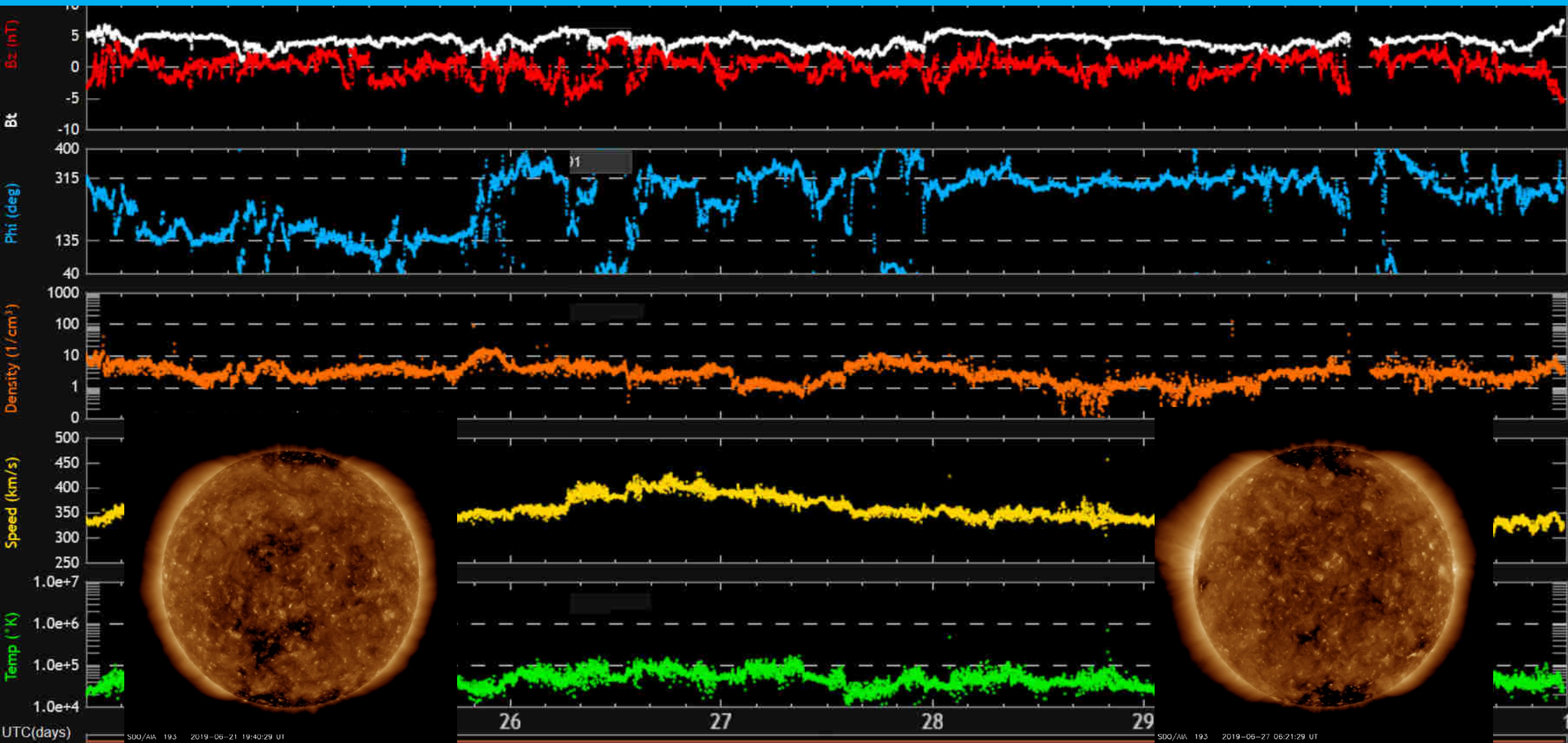


Solar Wind and Geomagnetic Activity

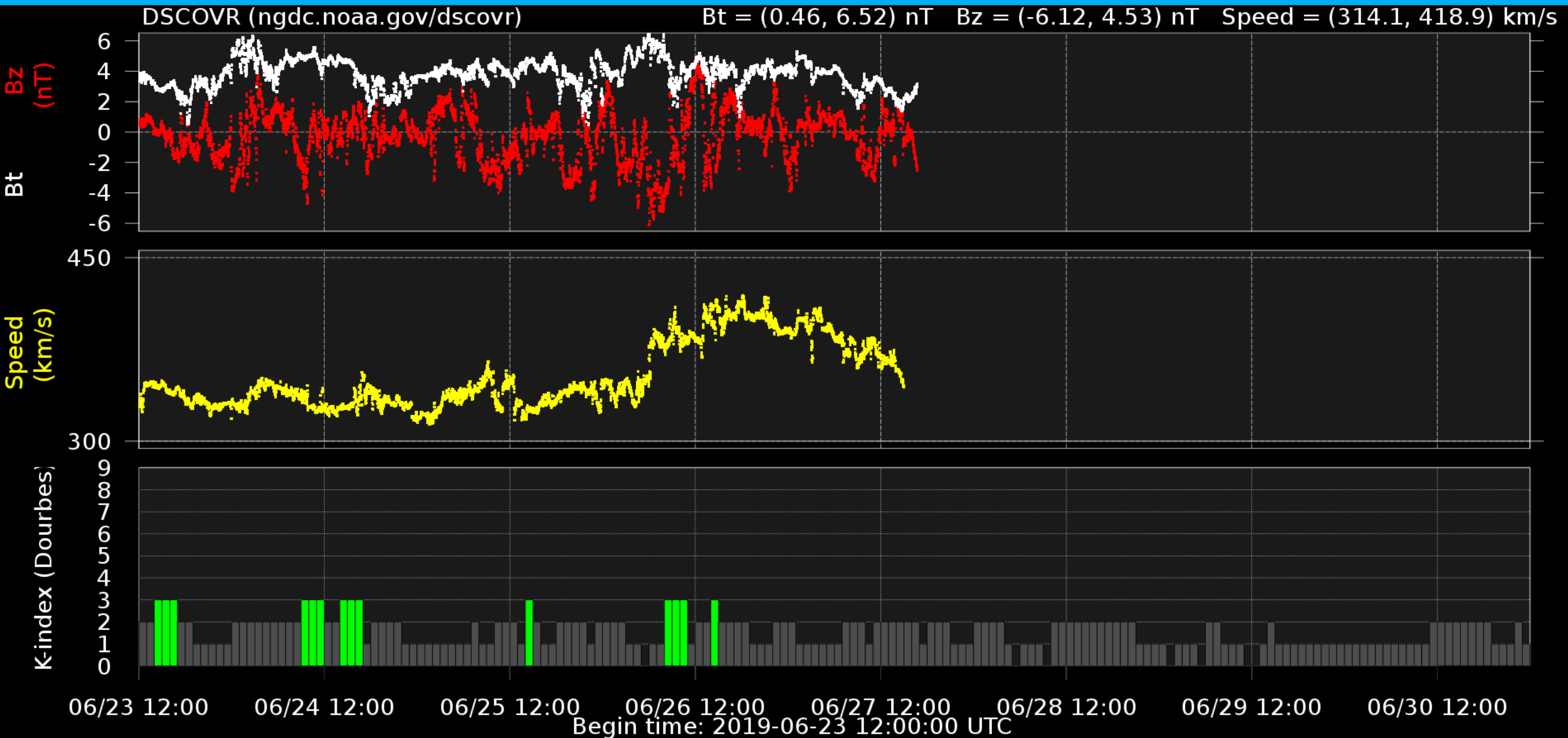


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Solar wind parameters (DSCOVR data)



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



Geomagnetic activity (K-indexes)



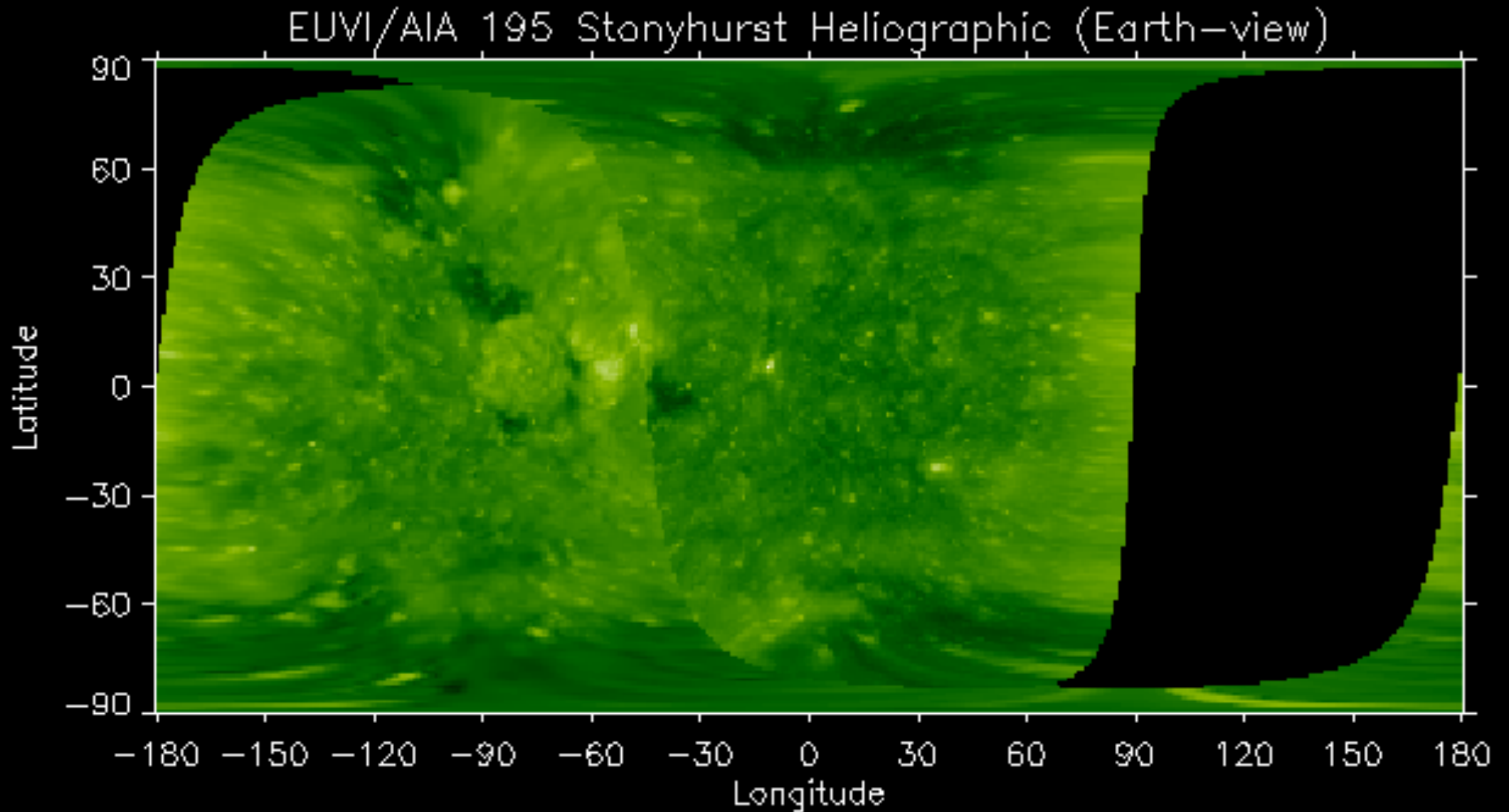
Outlook



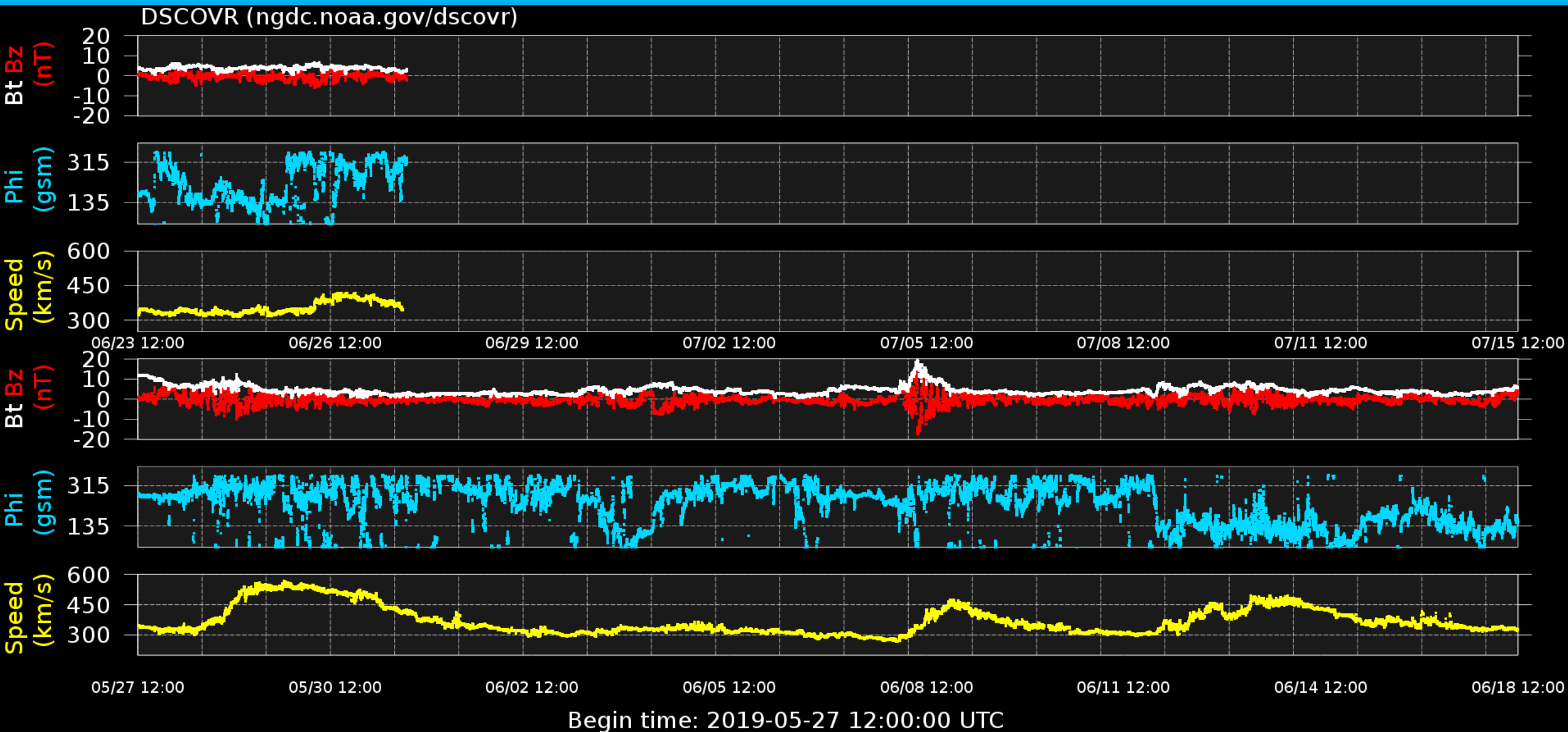
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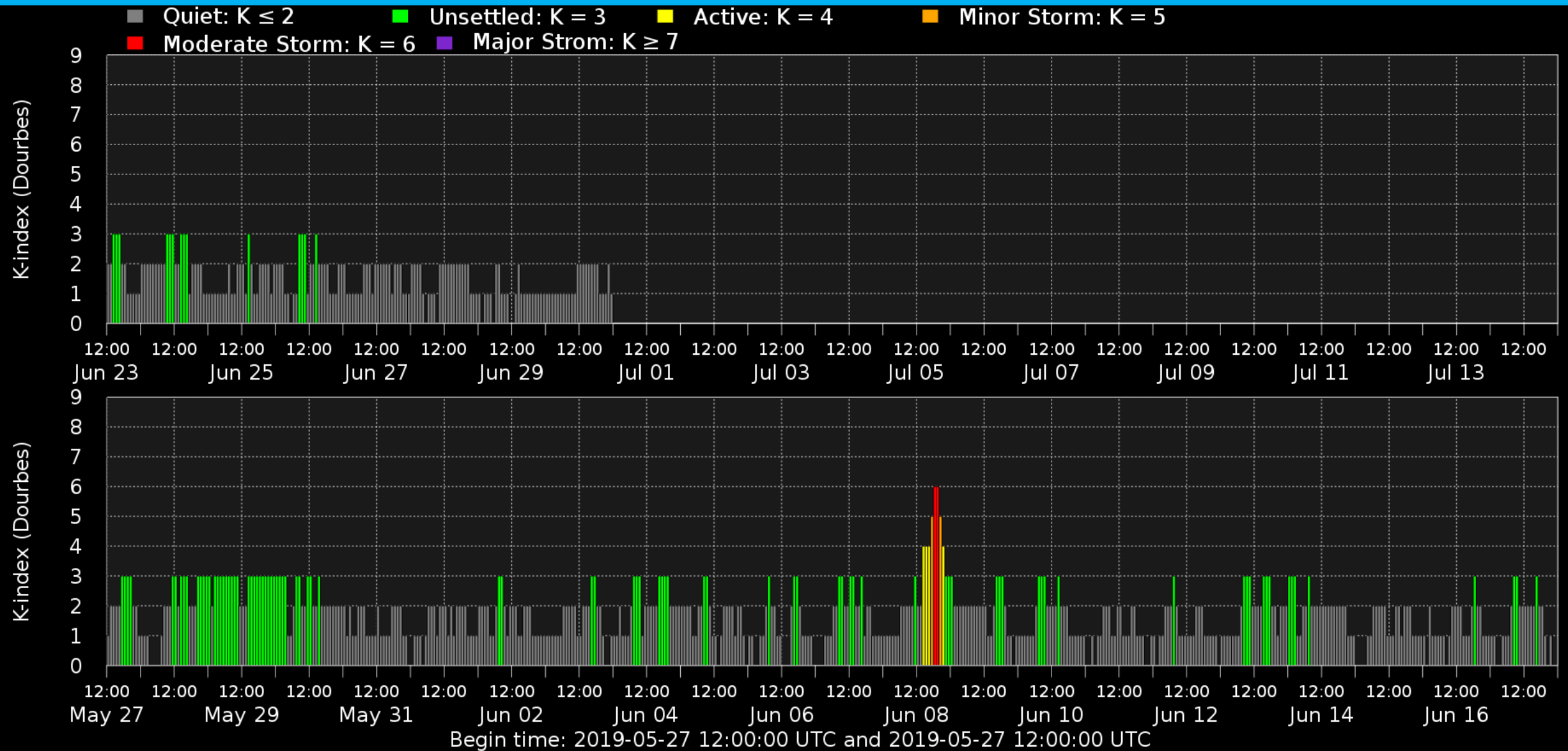
Outlook: Solar activity



Outlook: Solar wind



Outlook: Geomagnetic activity



SIDC Space Weather Briefing

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