

SIDC Space Weather briefing

25 June – 01 July 2018

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&
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Solar Influences
Data analysis Centre
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Royal Observatory
of Belgium

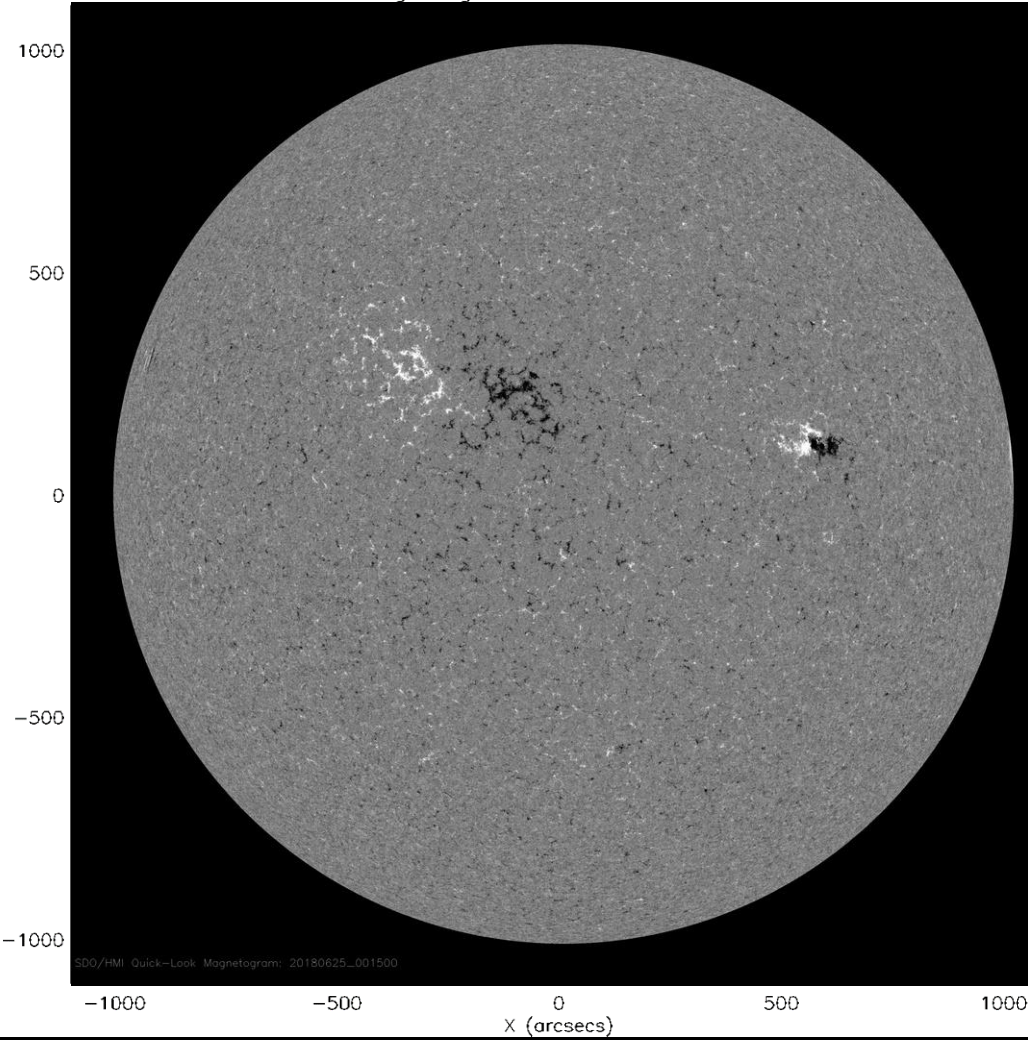
Summary Report

Active Regions	NOAA AR 2715
<i>Flaring</i>	<i>3 B-class flares</i>
<i>Wide CMEs</i>	<i>No</i>
<i>Large Filaments eruptions</i>	<i>No</i>
<i>Proton Events</i>	<i>No</i>

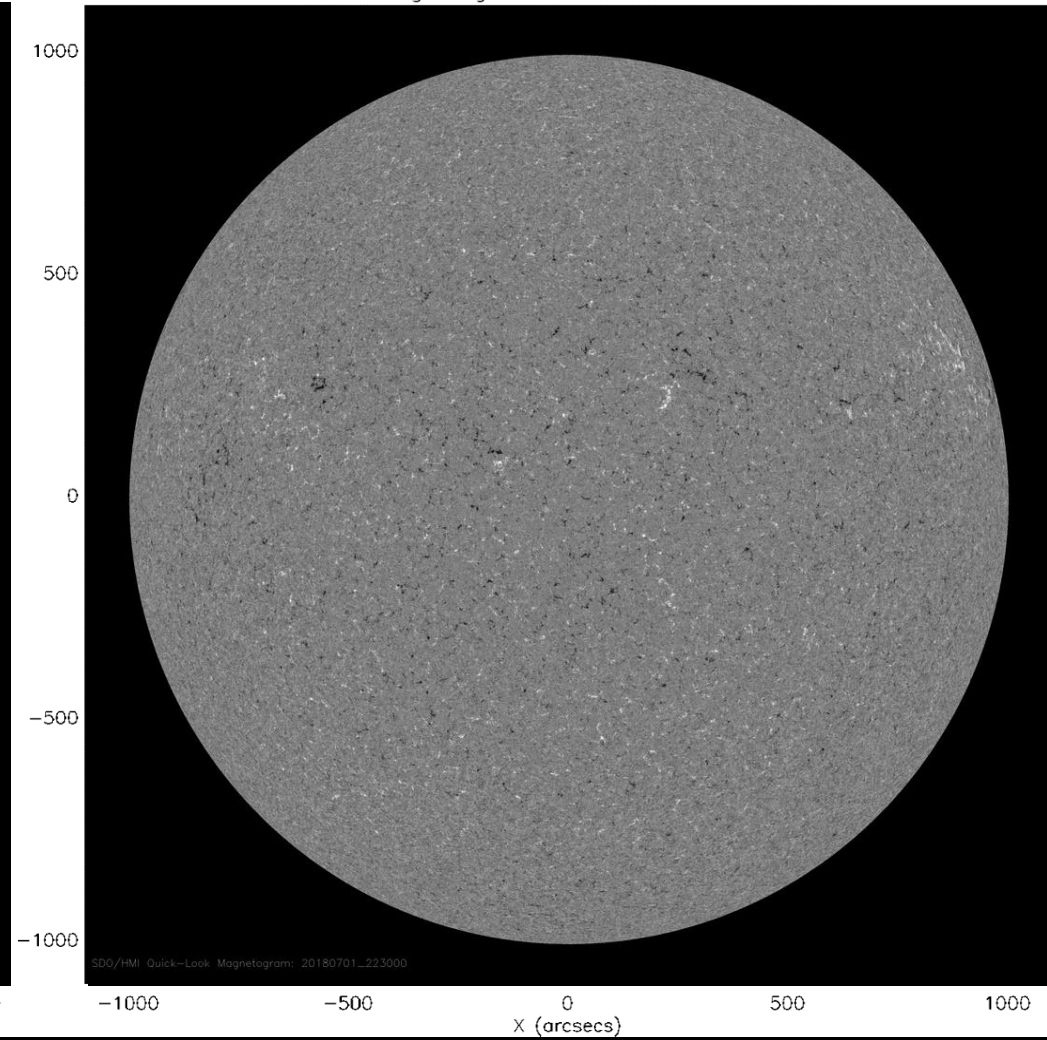
SW conditions	Max solar wind speed: 660 km/s
Coronal Holes	<ul style="list-style-type: none">Equatorial coronal hole reached central meridian on June 21
Shocks	<i>No.</i>
<i>ICME</i>	<i>No.</i>
Kp index	NOAA Kp=5 & Dourbes K=5

Solar active region evolution

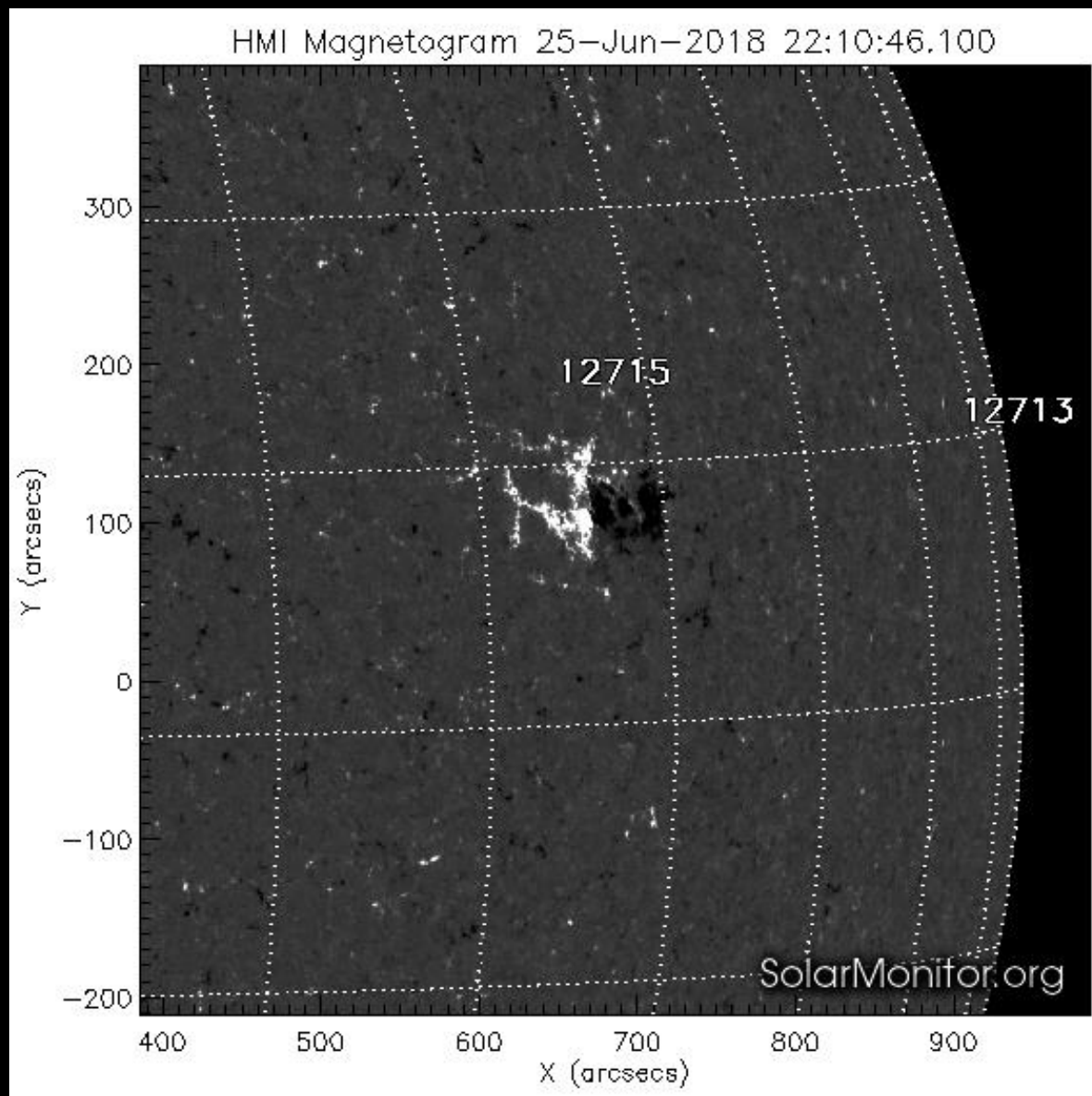
SDO HMI Magnetogram 25-Jun-2018 22:10:46.100



SDO HMI Magnetogram 2-Jul-2018 06:22:46.400



Solar active region evolution

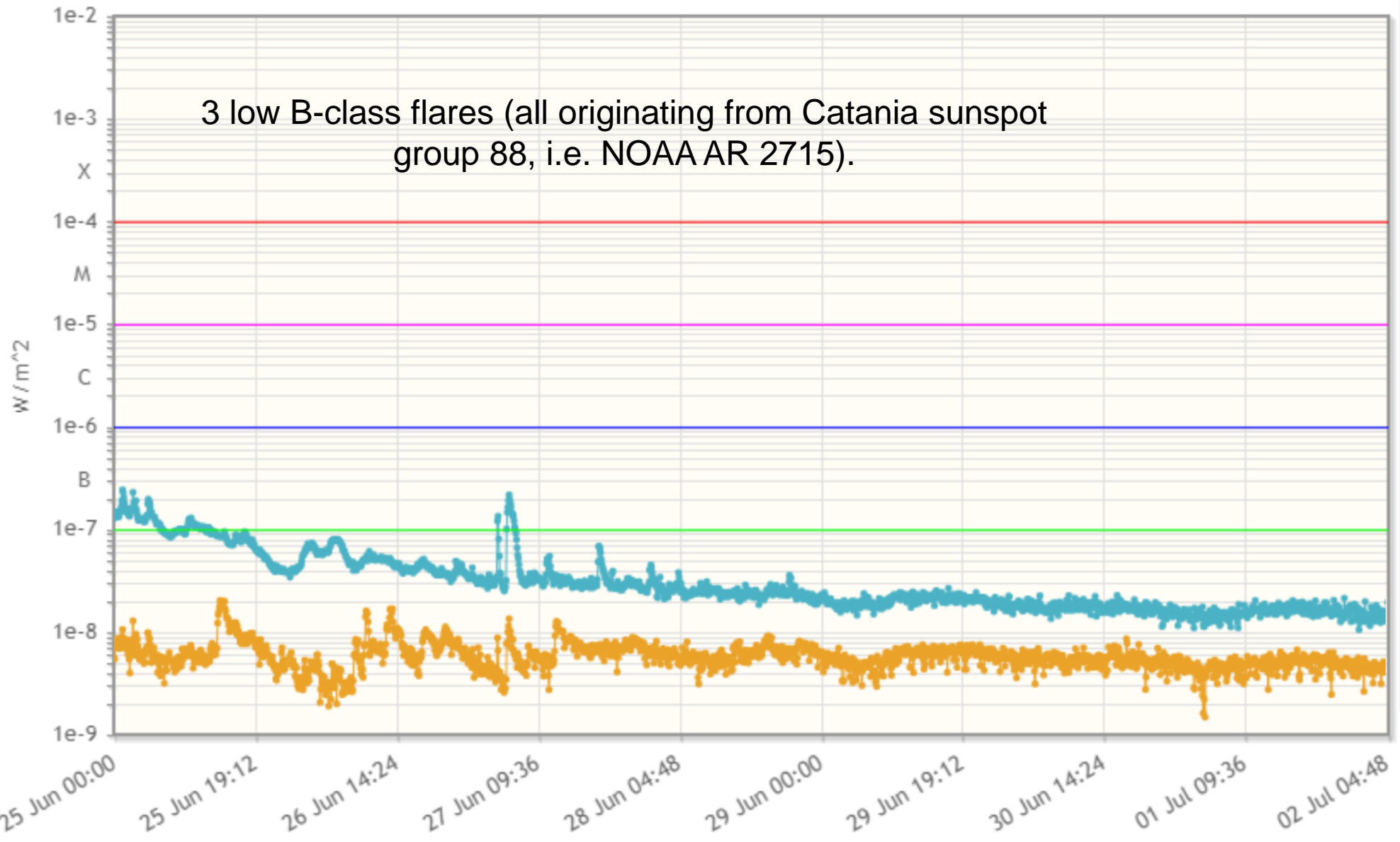


Solar X-ray flux and flaring

Plot (25 Jun 2018 00:00:00 UTC - 03 Jul 2018 00:00:00 UTC)

■ X-Ray - GOES X-Ray flux 0.1-0.8 nm (quicklook) - 2104 data points - (averaged - 5 minute data)
■ X-Ray - GOES X-Ray flux 0.05-0.4 nm (quicklook) - 2104 data points - (averaged - 5 minute data)

3 low B-class flares (all originating from Catania sunspot group 88, i.e. NOAA AR 2715).



CMEs detected by Cactus

16:12 07/01
11:12 07/01
08:24 07/01
05:36 07/01
03:06 07/01
20:48 06/30
18:00 06/30
15:12 06/30
12:00 06/30
09:12 06/30
06:00 06/30
03:12 06/30
23:36 06/29
20:12 06/29
17:00 06/29
14:00 06/29
10:36 06/29
07:42 06/29
04:28 06/29
23:48 06/28
20:12 06/28
17:24 06/28
14:36 06/28
11:36 06/28
08:48 06/28
05:48 06/28
02:48 06/28
23:36 06/27
19:48 06/27
16:48 06/27
13:48 06/27
10:48 06/27
07:24 06/27
04:36 06/27
00:48 06/27
21:24 06/26
18:12 06/26
15:30 06/26
12:12 06/26
09:12 06/26
06:00 06/26
03:24 06/26
23:48 06/25
20:12 06/25
17:36 06/25
14:59 06/25
11:36 06/25
08:48 06/25
06:00 06/25
03:12 06/25
00:00 06/25

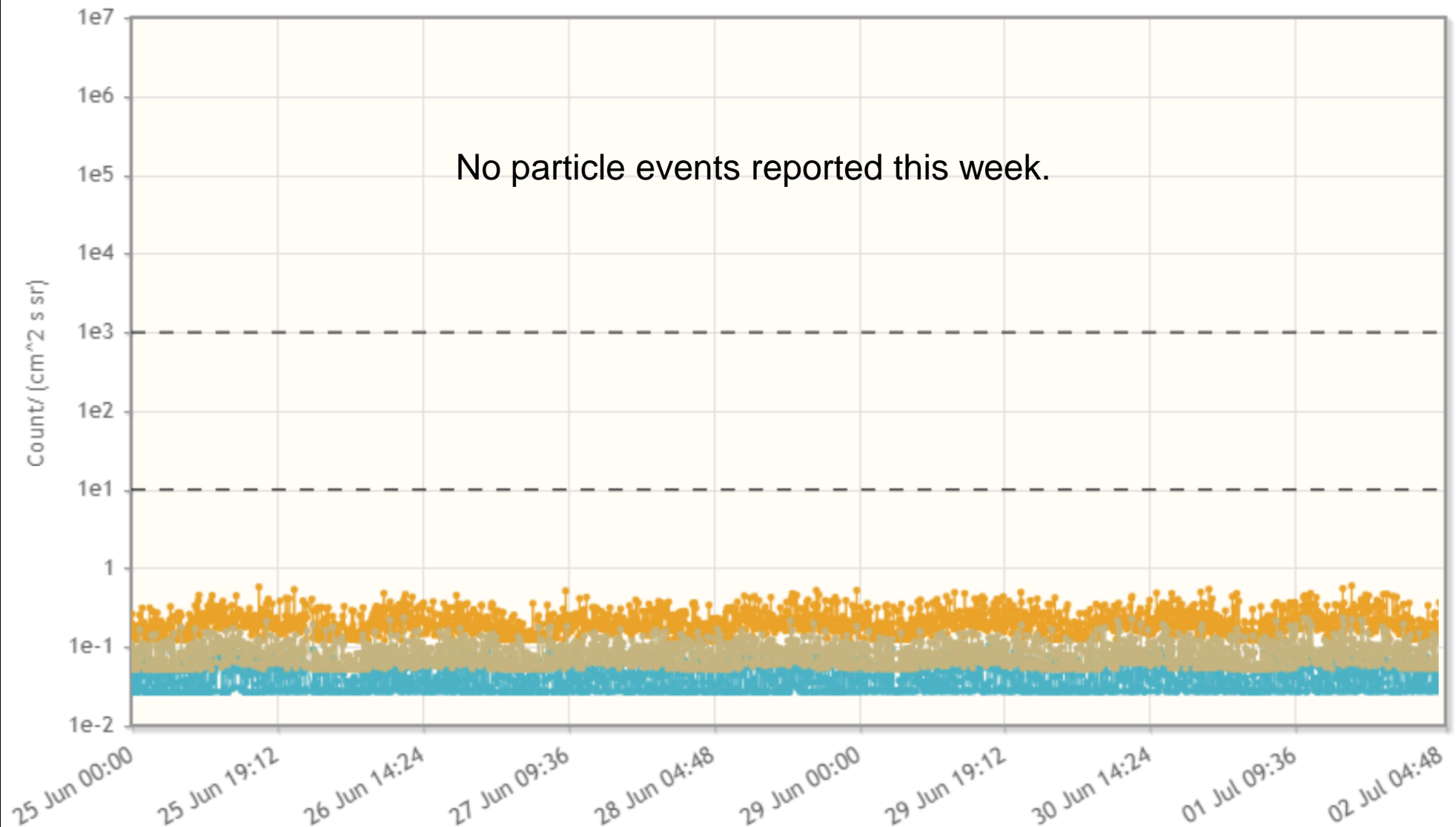
(Not a CME)

Energetic particles

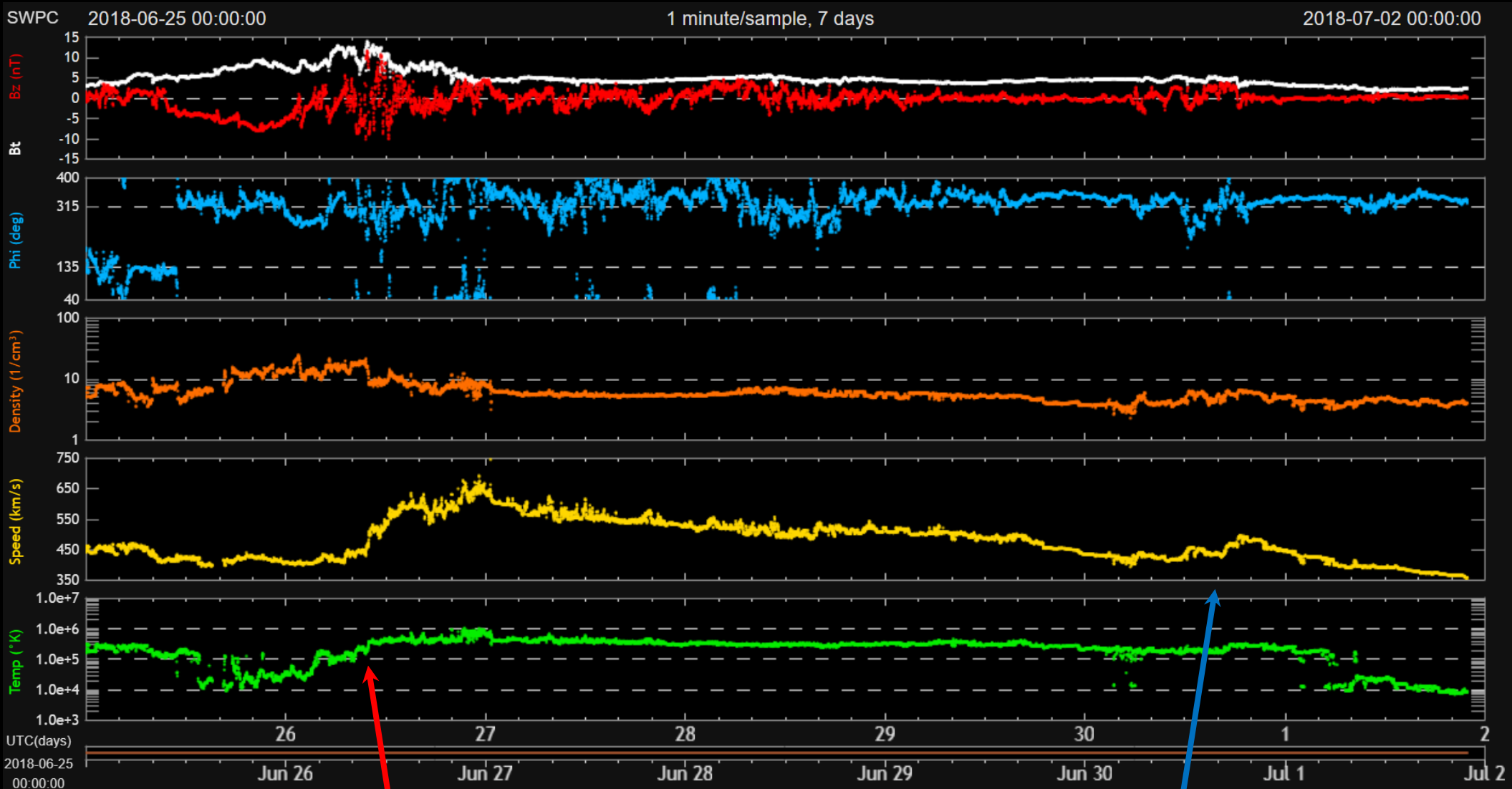
Plot (25 Jun 2018 00:00:00 UTC - 03 Jul 2018 00:00:00 UTC)

- Protons / Electrons - GOES Particles at > 100 Mev (quicklook) - 2085 data points - (raw - 5 minute data)
- Protons / Electrons - GOES Particles at > 10 Mev (quicklook) - 2085 data points - (raw - 5 minute data)
- Protons / Electrons - GOES Particles at > 50 Mev (quicklook) - 2085 data points - (raw - 5 minute data)

No particle events reported this week.



Solar wind

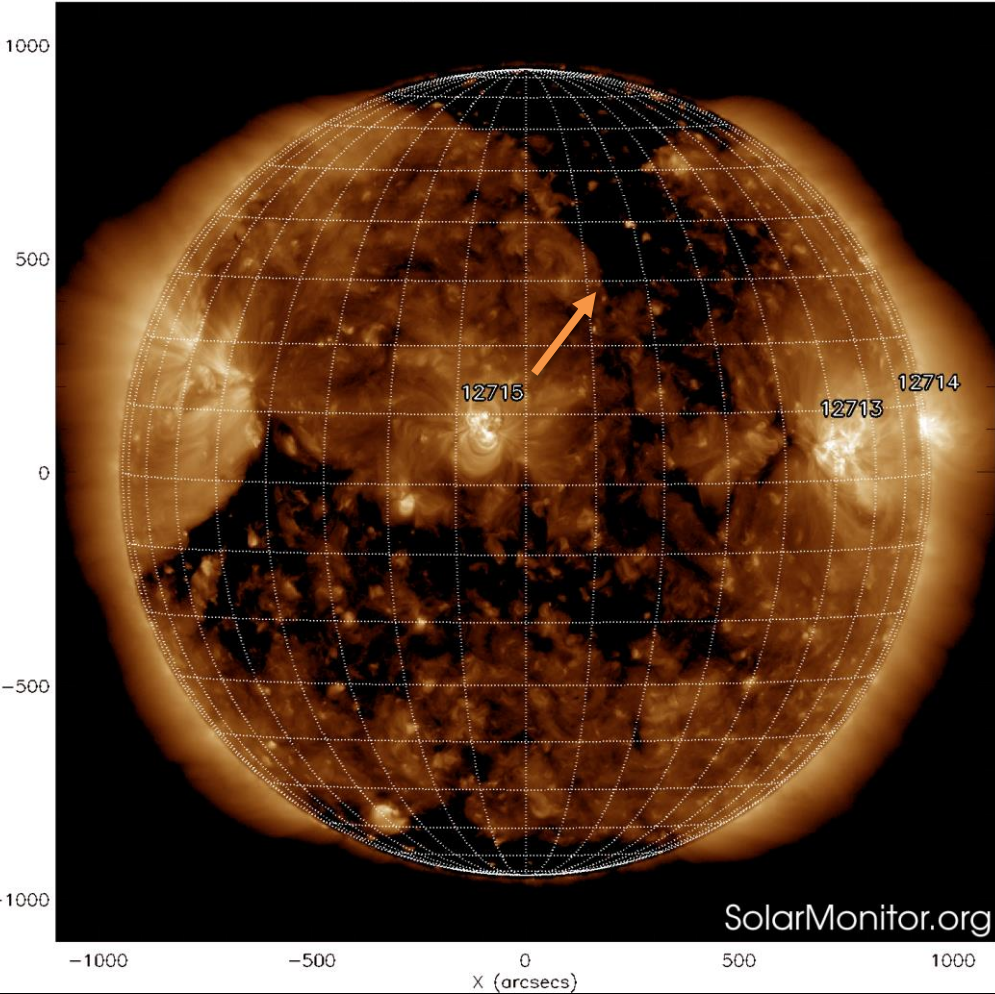


Fast flow

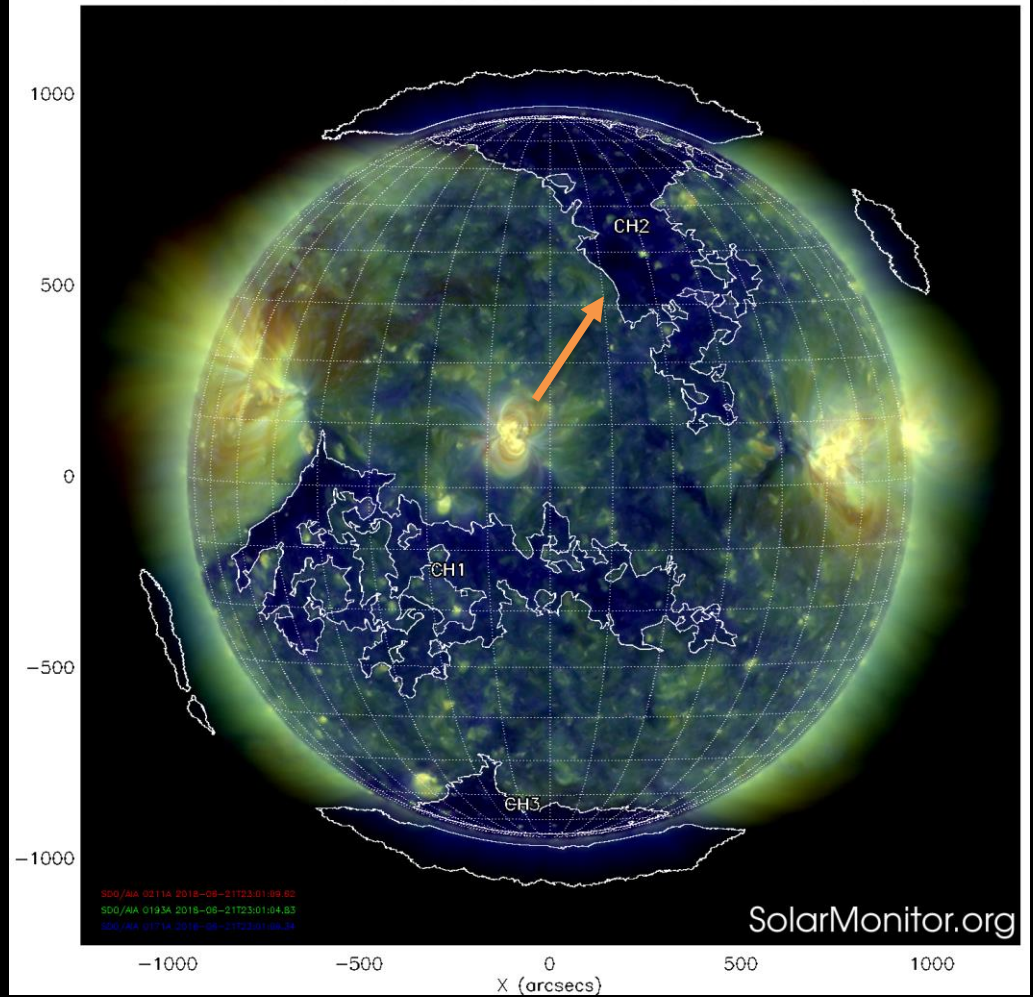
Fast flow???

Solar wind

SDO AIA Fe XII (193 Å) 21-Jun-2018 23:01:04.830

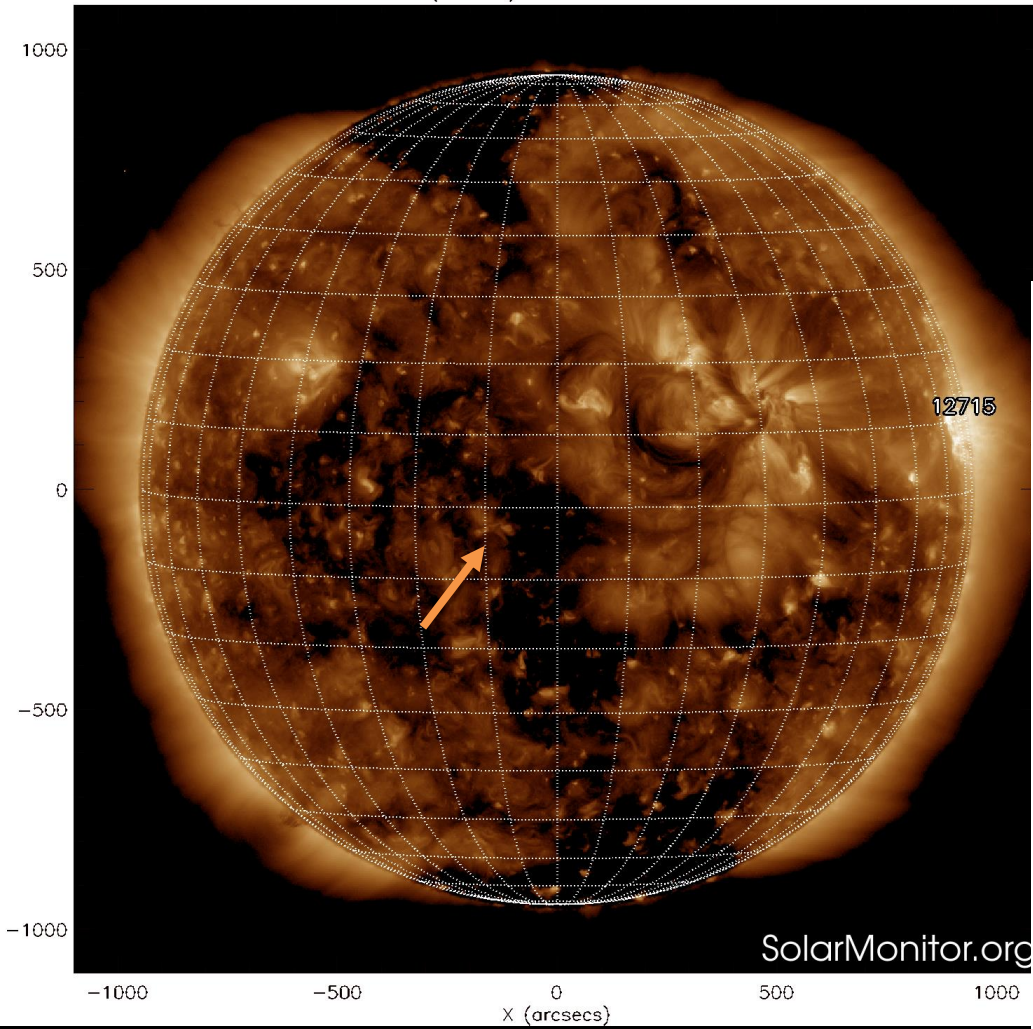


CHIMERA Coronal Holes at 21-Jun-2018 23:01:04.830 UT

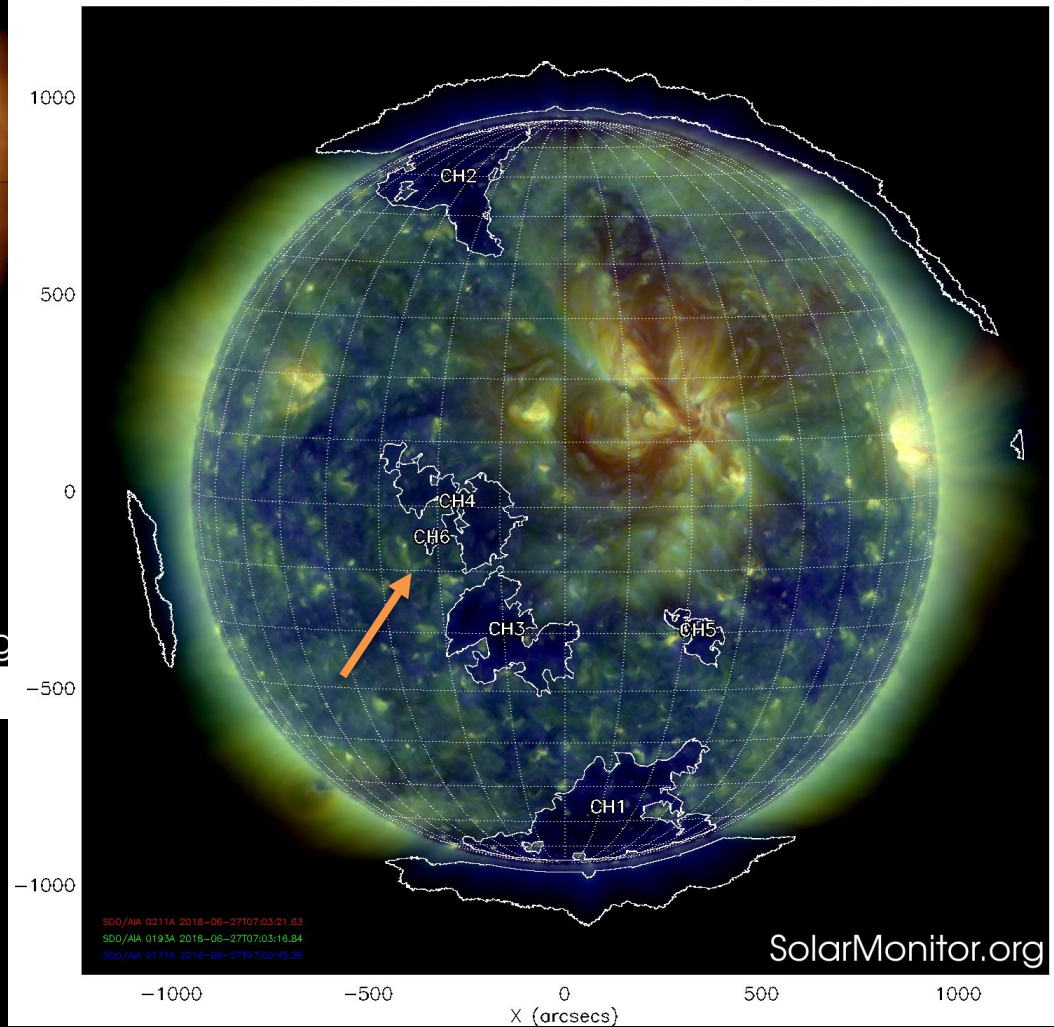


Solar wind

SDO AIA Fe XII (193 Å) 27-Jun-2018 22:58:40.000

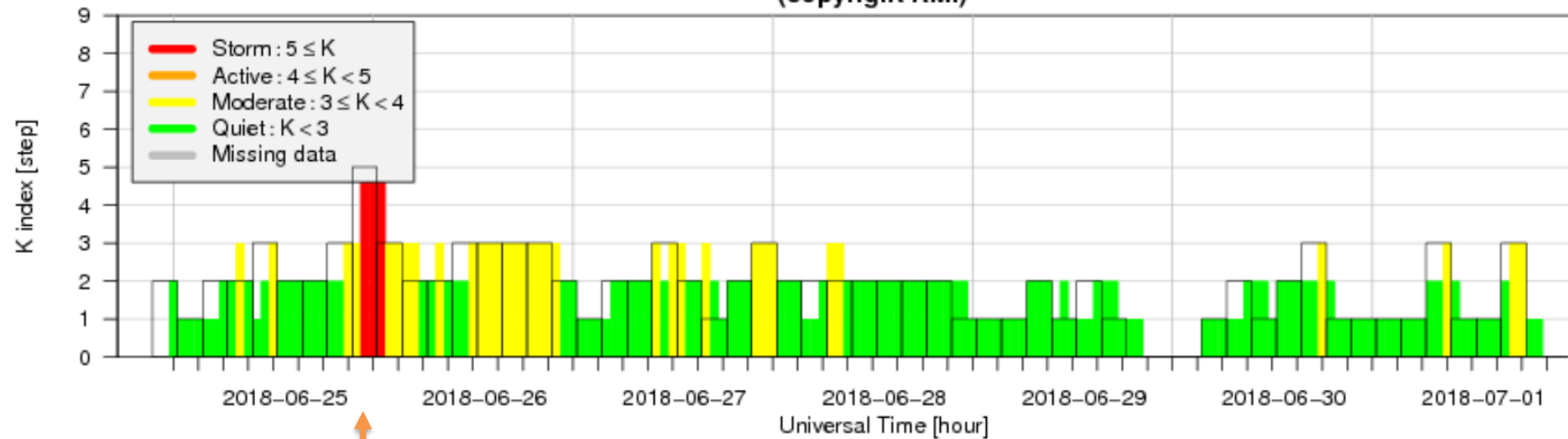


CHIMERA Coronal Holes at 27-Jun-2018 07:03:16.840 UT



Geomagnetism

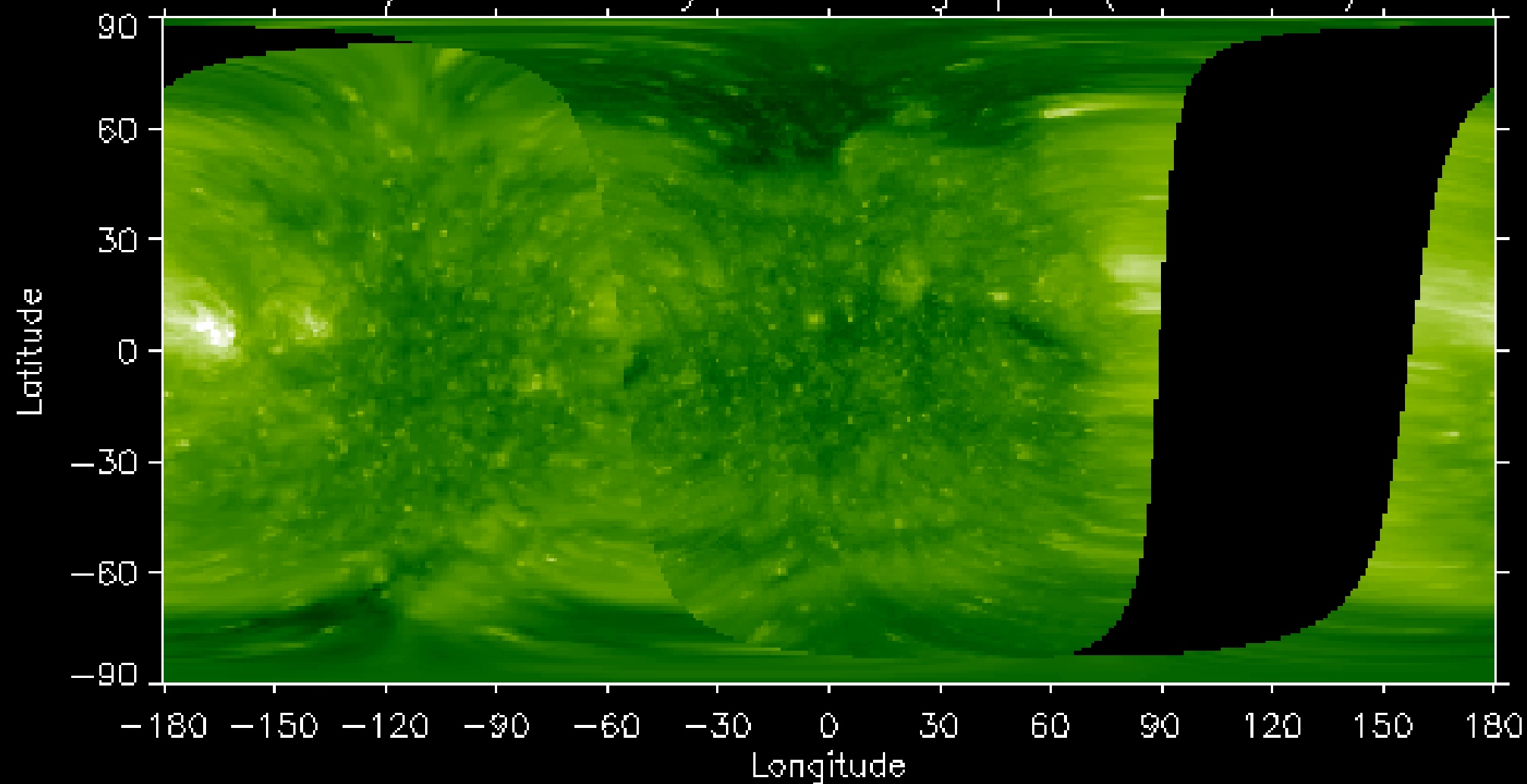
Local K index at Dourbes (50.1 °N, 4.6 °E)
from ground-based measurements
(copyright RMI)



Fast solar wind

Outlook

EUVI/AIA 195 Stonyhurst Heliographic (Earth-view)



Observation date: 2018/07/02 08:35:30