

# SIDC Space Weather briefing

June 11-17, 2018

Jesse Andries  
and SIDC forecaster team

Solar Influences  
Data analysis Centre  
[www.sidc.be](http://www.sidc.be)

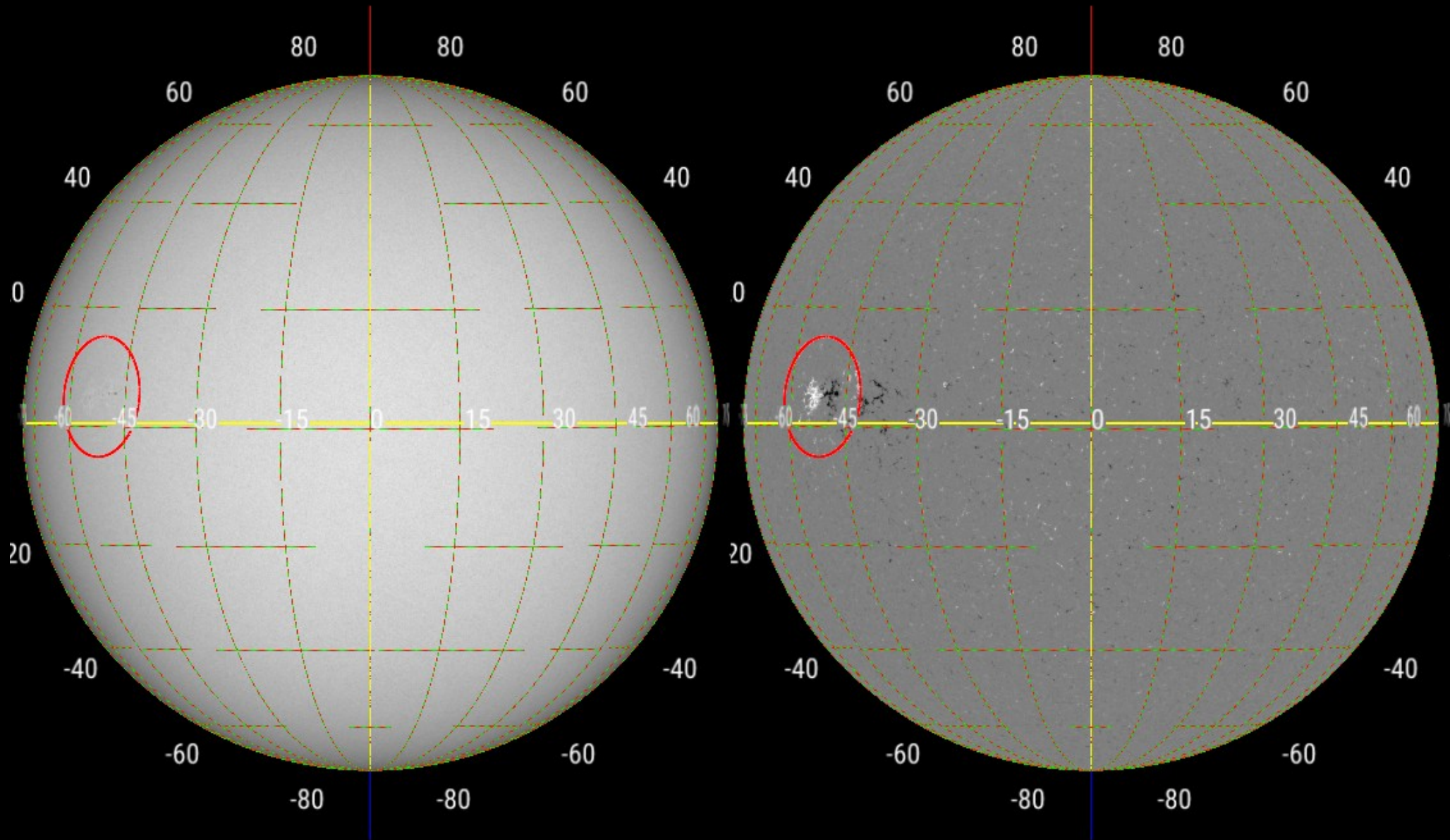


Royal Observatory  
of Belgium

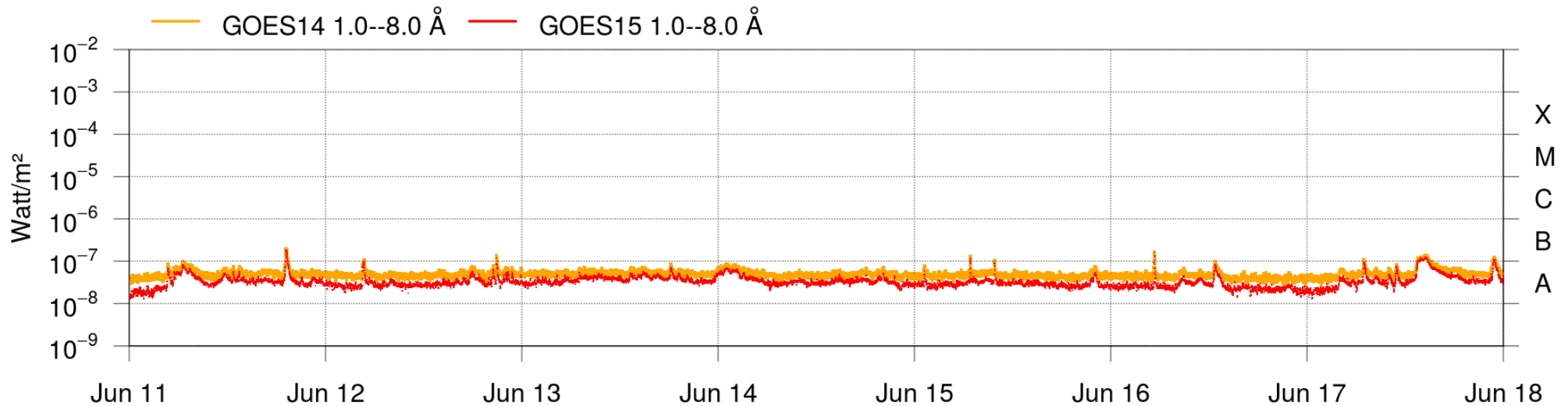
# Report of Solar Activity

Active Regions	1 inactive region rotated on disk and decayed
Flaring	X-ray flux < B, with a few occasional low B flares.
Filaments	-
CME's	No Earth directed CMEs
Coronal Holes	Upcoming Northern +CH

# Solar active region evolution



# Solar X-ray flux and flaring

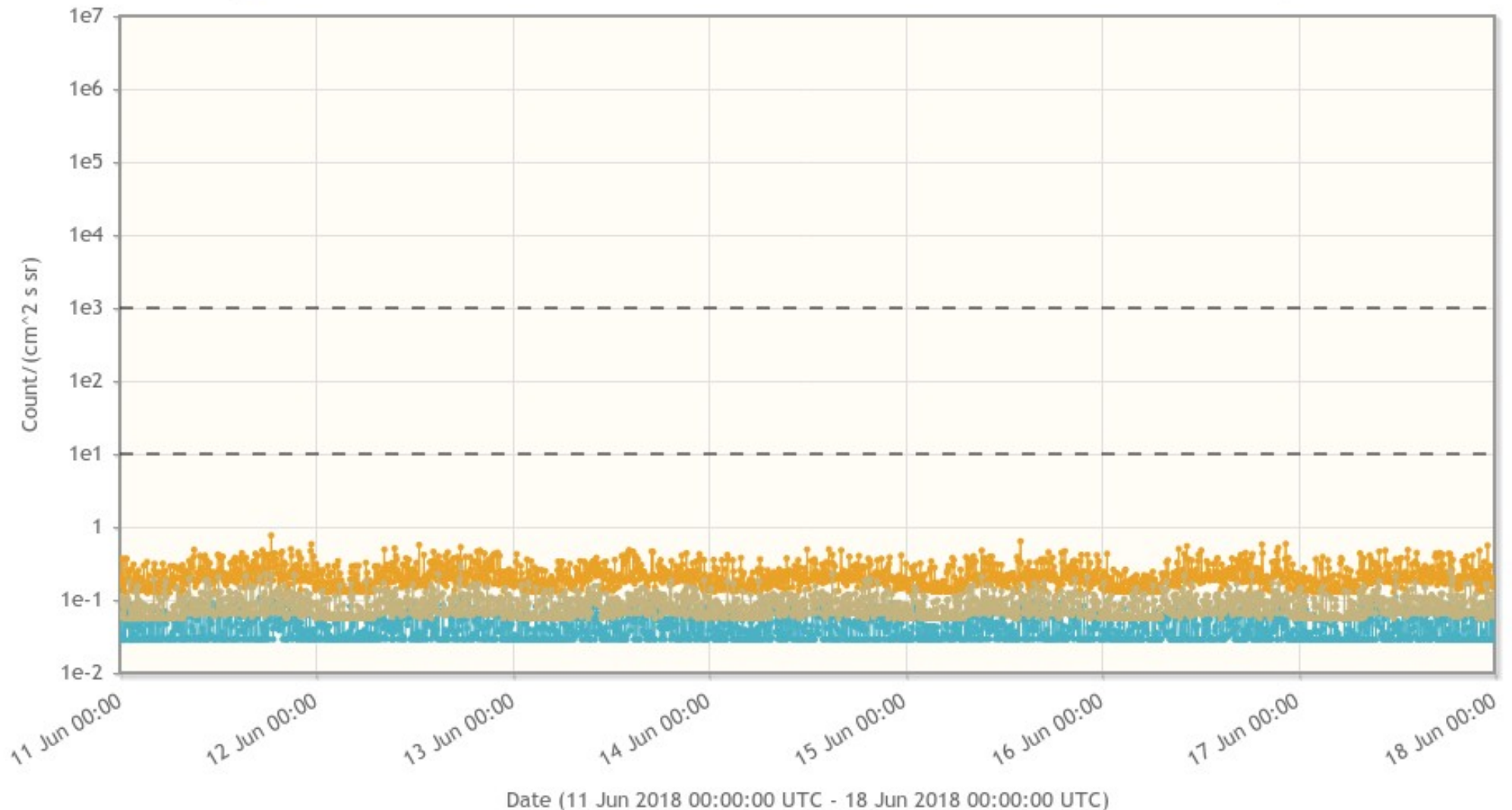


	p(C)	p(M)	p(X)
2018-06-17T12:30	0.05	0.01	0.01
2018-06-16T12:30	0.05	0.01	0.01
2018-06-15T12:30	0.05	0.01	0.01
2018-06-14T12:30	0.05	0.01	0.01
2018-06-13T12:30	0.05	0.01	0.01
2018-06-12T12:30	0.05	0.01	0.01
2018-06-11T12:30	0.05	0.01	0.01

# Energetic particles

www.staff.oma.be

- Protons / Electrons - GOES Particles at > 100 Mev (quicklook) - 2000 data points - (raw - 5 minute data)
- Protons / Electrons - GOES Particles at > 10 Mev (quicklook) - 2000 data points - (raw - 5 minute data)
- Protons / Electrons - GOES Particles at > 50 Mev (quicklook) - 2000 data points - (raw - 5 minute data)



Date (11 Jun 2018 00:00:00 UTC - 18 Jun 2018 00:00:00 UTC)

# CMEs

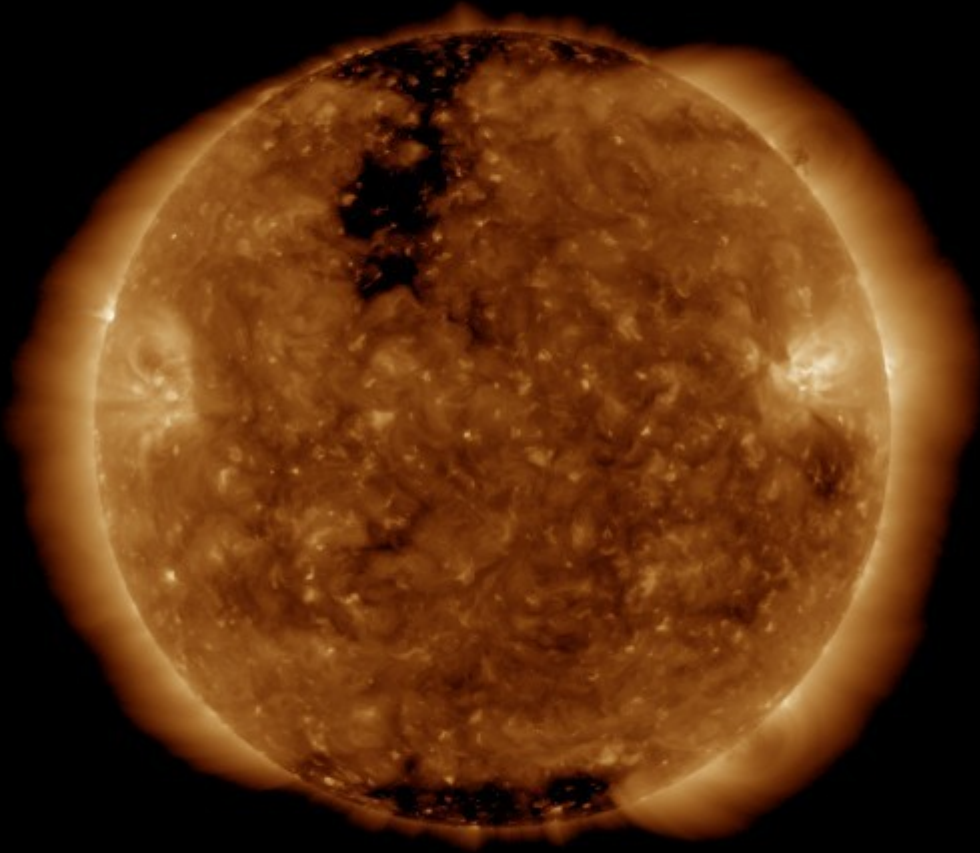
- just one small westbound

LASCO movie

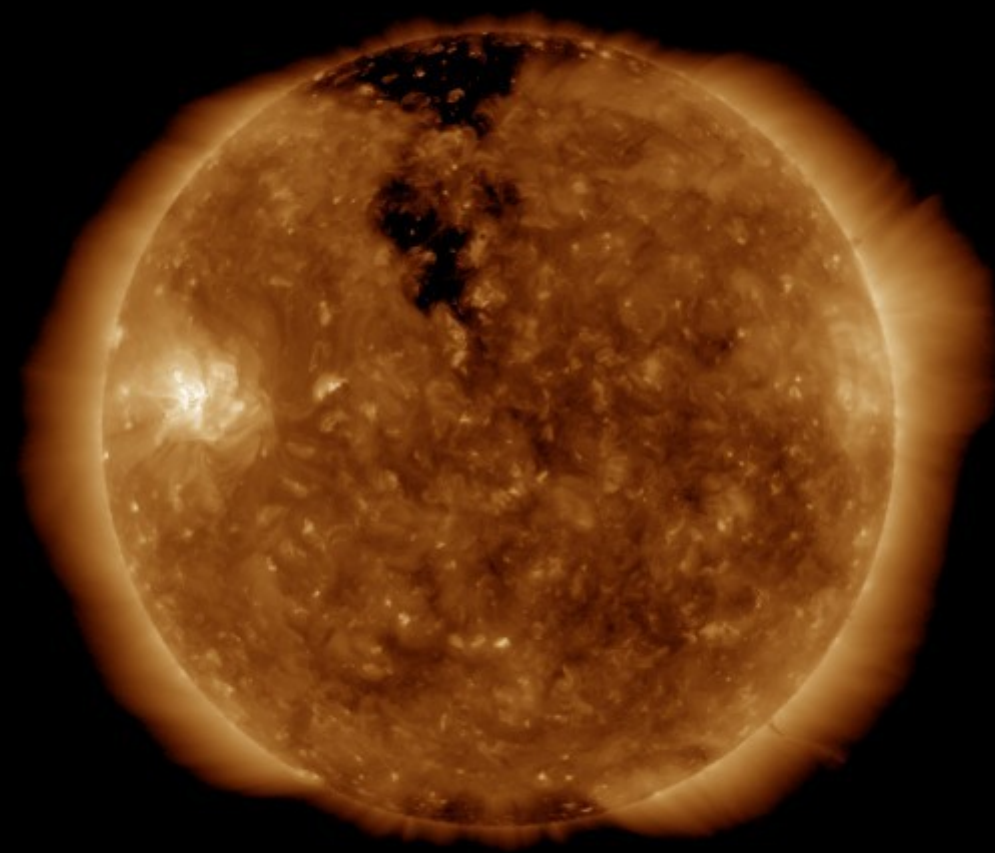


02:12 06/18  
18:30 06/17  
15:42 06/17  
12:24 06/17  
09:36 06/17  
06:36 06/17  
03:36 06/17  
00:00 06/17  
20:24 06/16  
07:48 06/16  
05:12 06/16  
19:57 06/15  
14:24 06/15  
11:12 06/15  
07:48 06/15  
04:28 06/15  
23:48 06/14  
20:12 06/14  
17:24 06/14  
14:00 06/14  
10:48 06/14  
07:48 06/14  
05:12 06/14  
02:00 06/14  
22:24 06/13  
19:12 06/13  
16:24 06/13  
12:54 06/13  
09:48 06/13  
07:00 06/13  
04:12 06/13  
00:36 06/13  
21:12 06/12  
18:24 06/12  
15:48 06/12  
12:24 06/12  
09:24 06/12  
06:42 06/12  
03:48 06/12  
00:00 06/12

# Solar wind



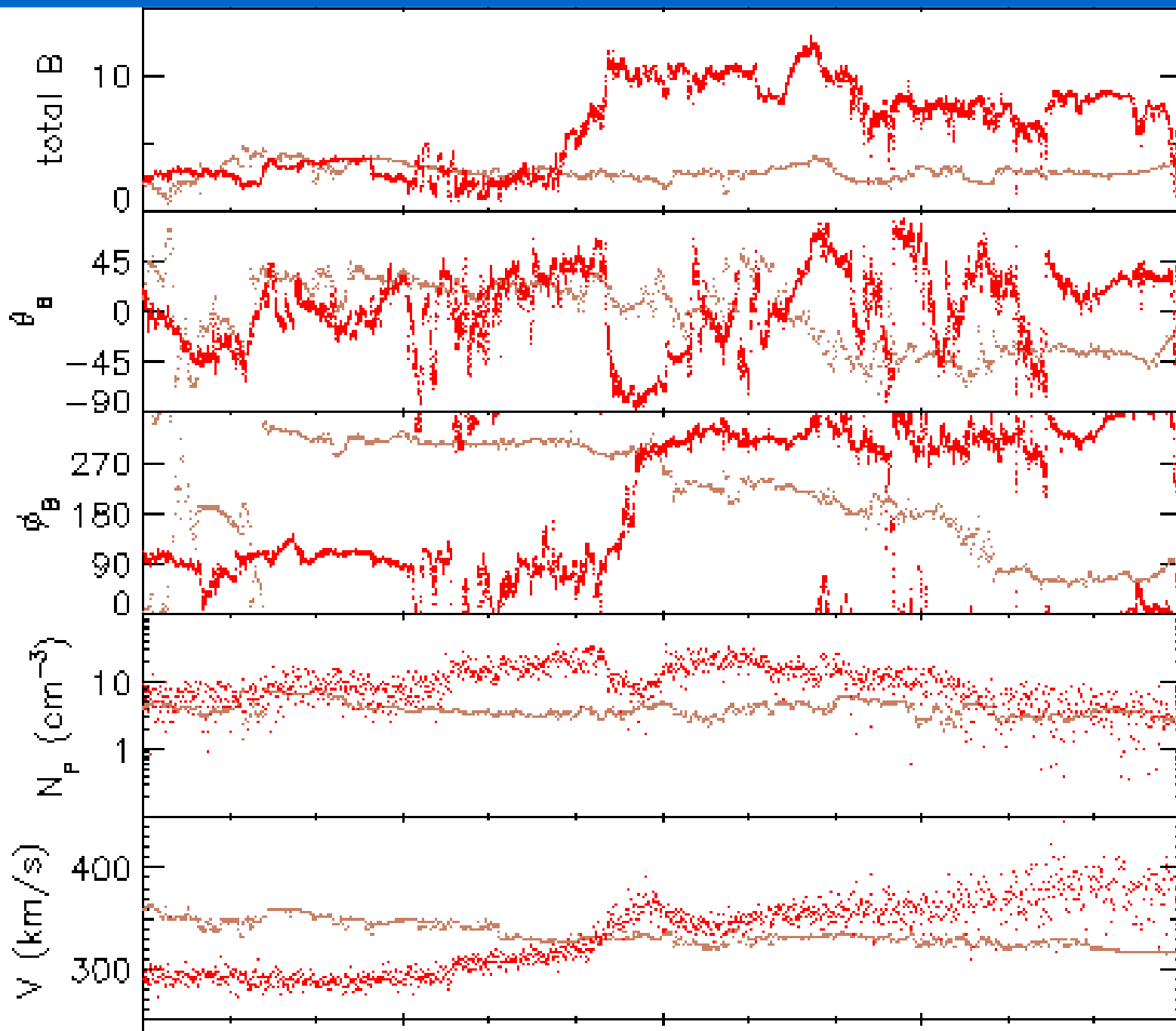
SDO/AIA 193 2018-05-17 23:55:29 UT



SDO/AIA 193 2018-06-14 11:56:17 UT

# Solar wind

Brown: DSCOVR/ACE equivalents

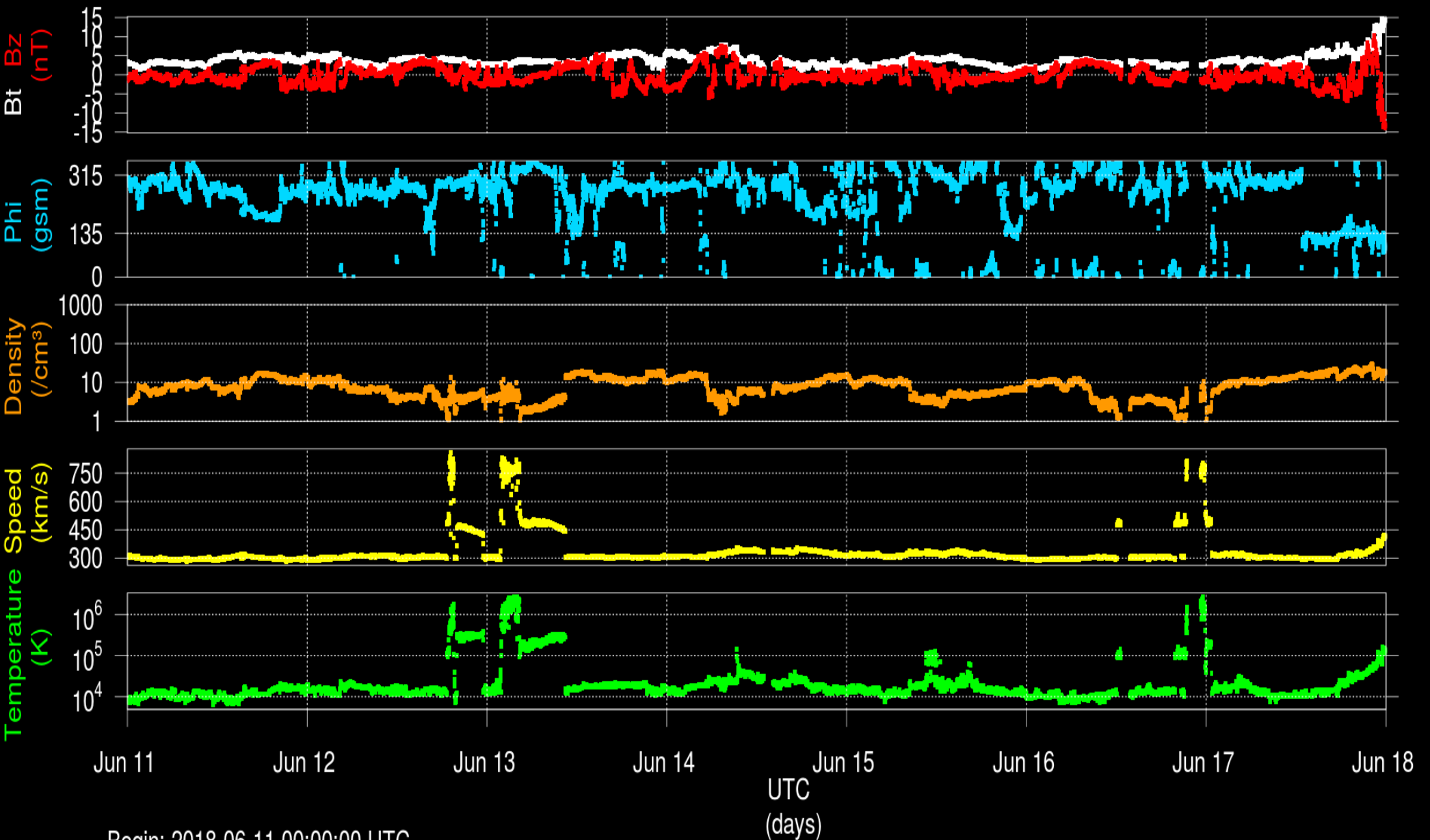




# Solar wind

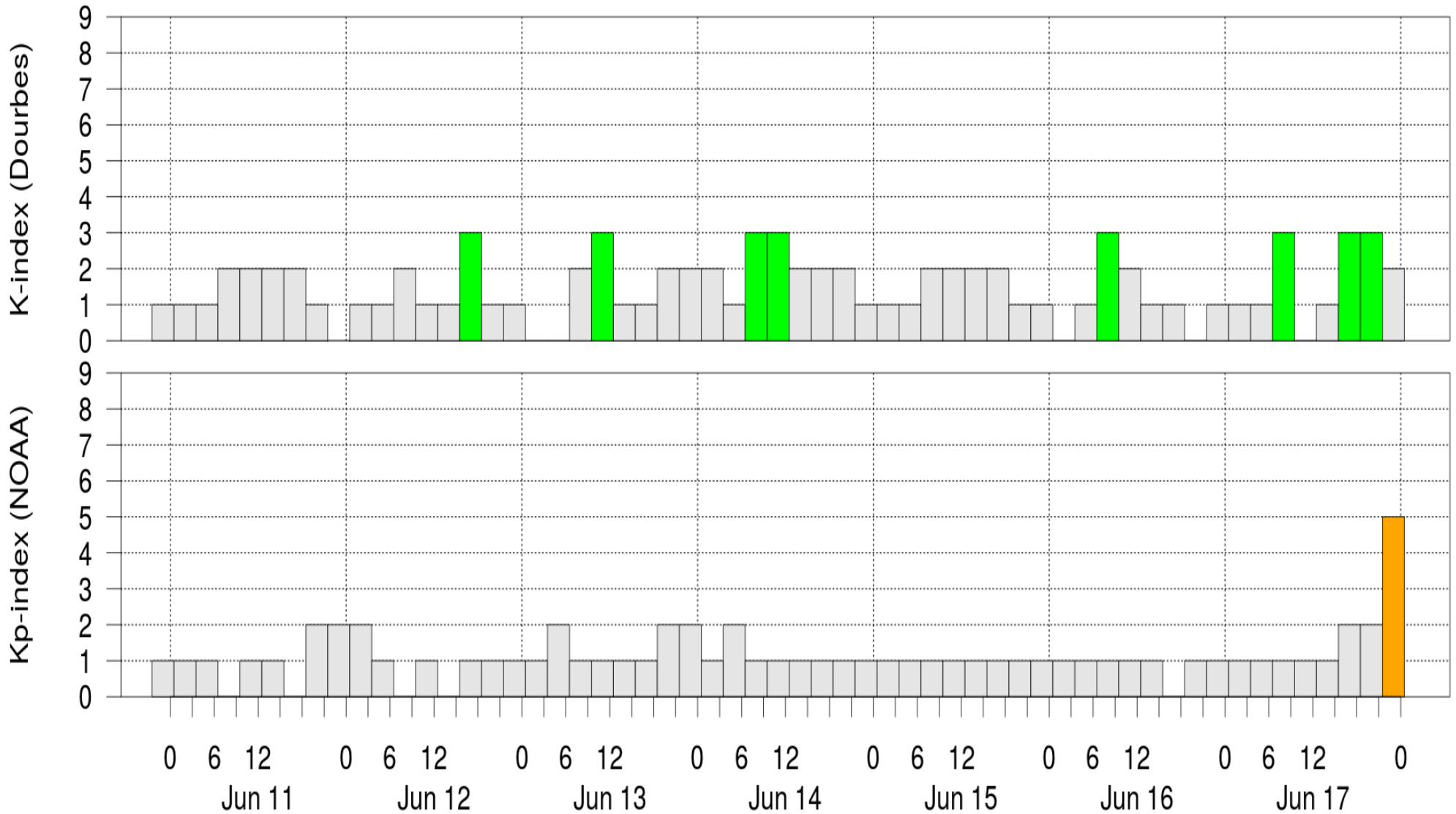
DSCOVR ([ngdc.noaa.gov/dscovr](http://ngdc.noaa.gov/dscovr))

max(Bt)=15.23 nT min(Bz)=-13.76 nT min(speed)=285 km max(speed)=856 km/s



# Geomagnetism

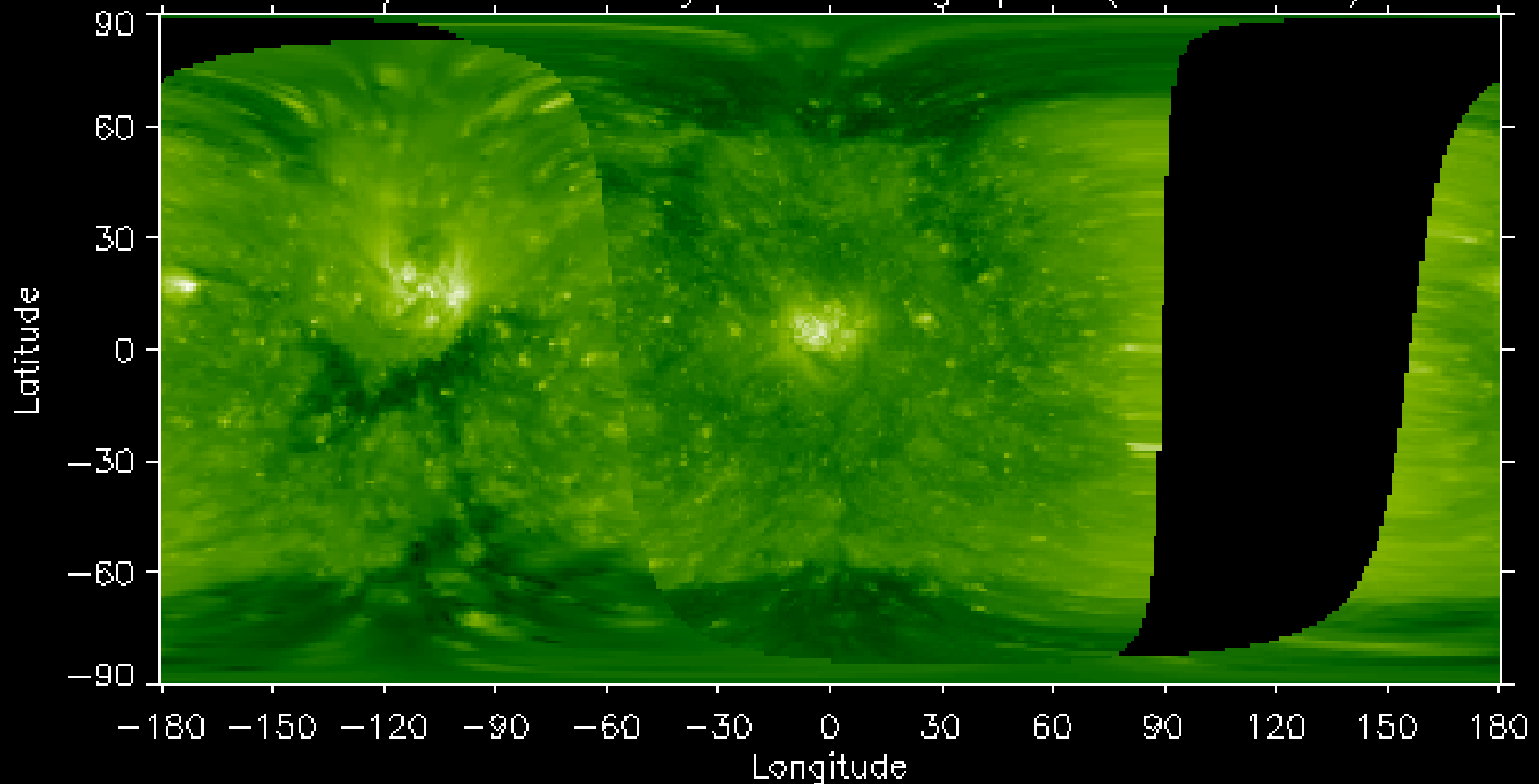
- Quiet:  $K \leq 2$
- Unsettled:  $K = 3$
- Active:  $K = 4$
- Minor Storm:  $K = 5$
- Moderate Storm:  $K = 6$
- Major Storm:  $K \geq 7$



Begin: 2018-06-11 00:00:00 UTC

# Outlook

EUVI/AIA 195 Stonyhurst Heliographic (Earth-view)



Observation date: 2018/06/17 21:05:30

# SIDC Space Weather briefing

See you at a next briefing!

Or visit us at [www.sidc.be](http://www.sidc.be)

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