

# SIDC Space Weather briefing

March 12-19, 2018

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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	Two simple and quiet regions formed on disk
Flaring	X-ray flux < B
Filaments	None
CME's	None
Coronal Holes	elongated -CH causing 500km/s

# Solar active region evolution



# Solar active region evolution



HMI continuum

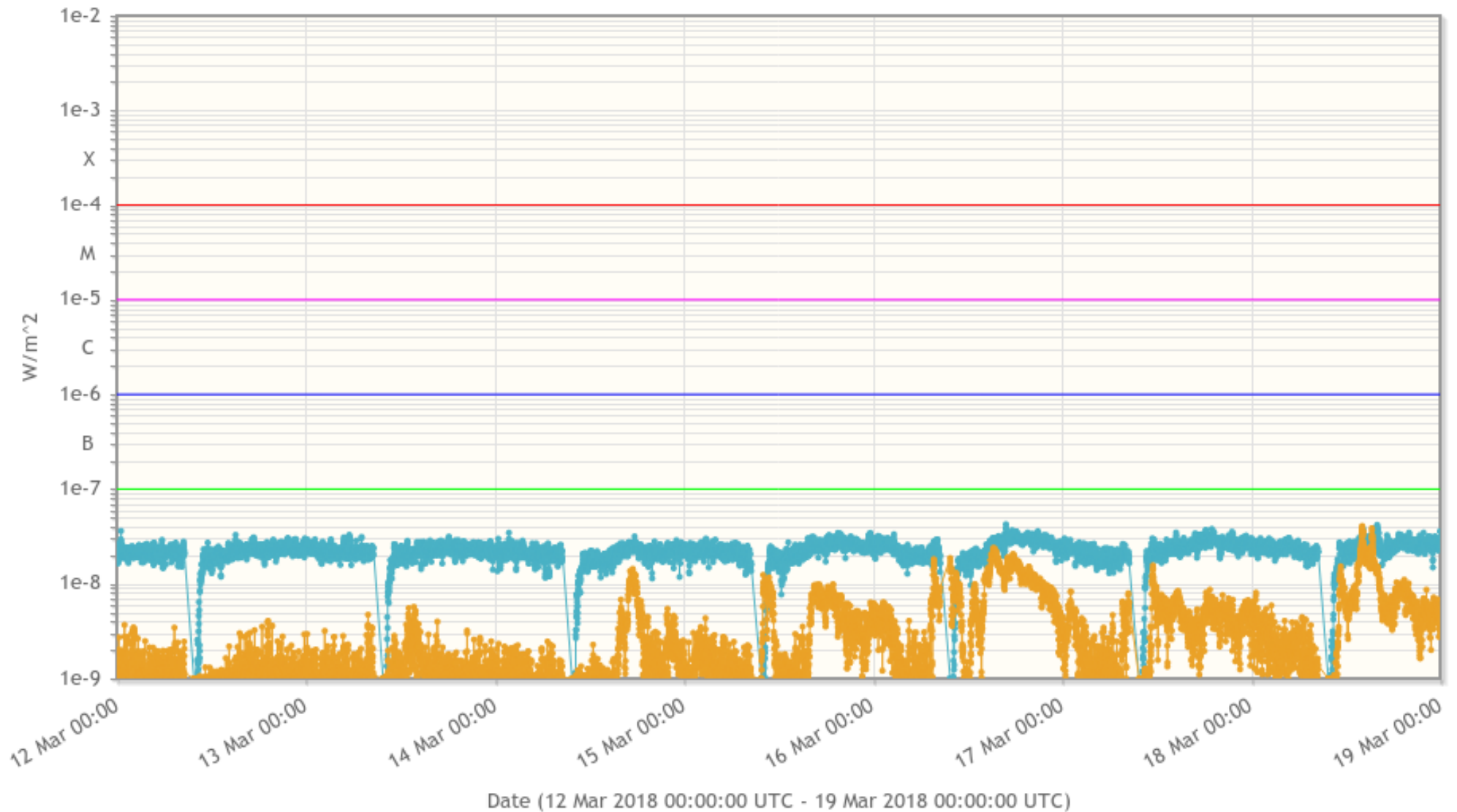
2018-03-12 00:00:27



# Solar X-ray flux and flaring

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■ X-Ray - GOES X-Ray flux 0.1-0.8 nm (quicklook) - 9520 data points - (raw - 1 minute data)  
■ X-Ray - GOES X-Ray flux 0.05-0.4 nm (quicklook) - 9520 data points - (raw - 1 minute data)



Date (12 Mar 2018 00:00:00 UTC - 19 Mar 2018 00:00:00 UTC)

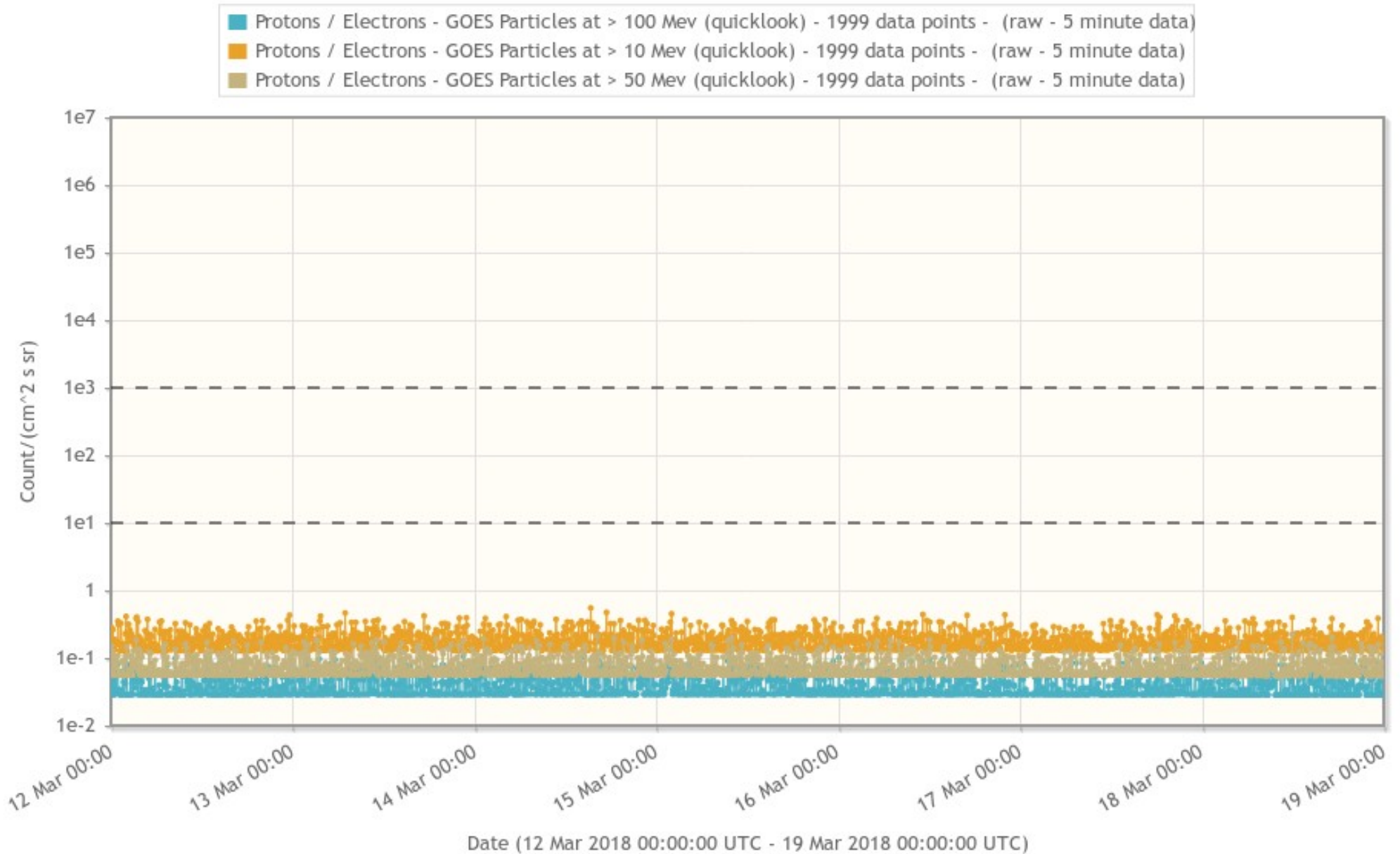
# Solar X-ray flaring forecast

Probability for Full disk flare occurrence for 24h

	p(C)	p(M)	p(X)
2018-012T12:30	0.05	0.01	0.01
2018-03-13T12:30	0.05	0.01	0.01
2018-03-14T12:30	0.05	0.01	0.01
2018-03-15T12:30	0.05	0.01	0.01
2018-03-16T12:30	0.10	0.01	0.01
2018-03-17T12:30	0.10	0.01	0.01
•2018-03-18T12:30	0.10	0.01	0.01

# Energetic particles

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# CMEs

- No CMEs  
throughout the week

LASCO movie

S

W

N

EE

c2

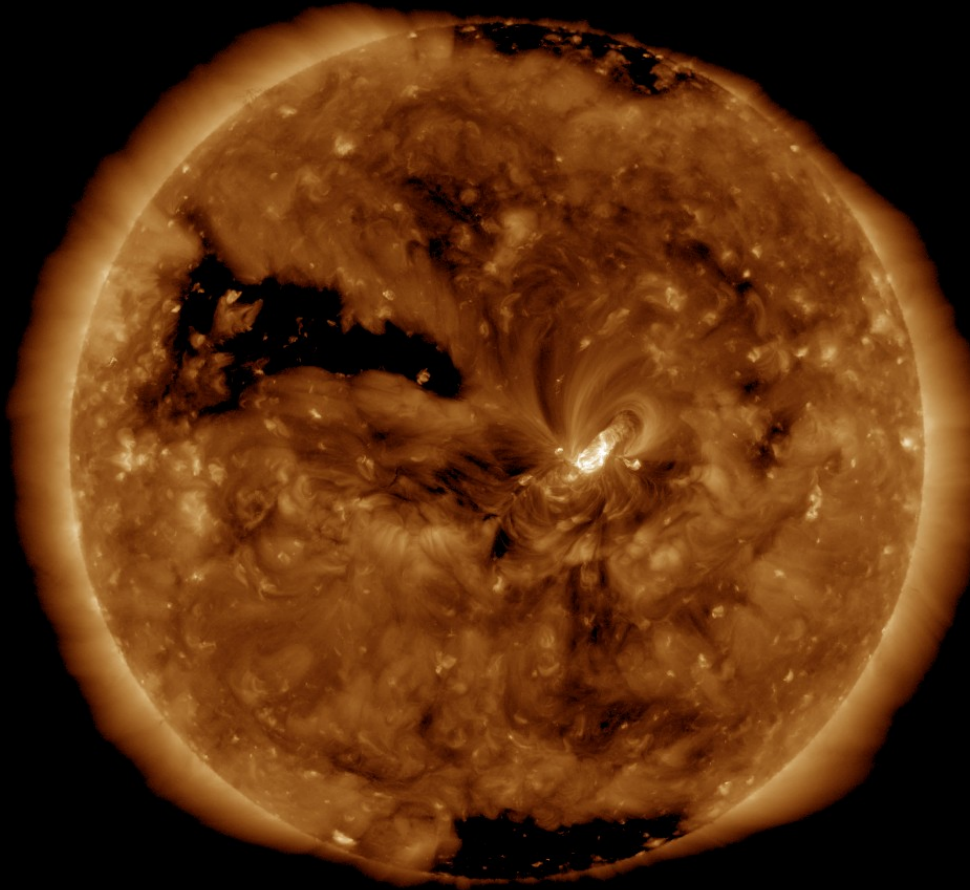
c1

19:24 03/17  
14:36 03/17  
11:36 03/17  
08:36 03/17  
05:36 03/17  
02:36 03/17  
23:12 03/16  
19:48 03/16  
17:12 03/16  
13:36 03/16  
10:48 03/16  
07:48 03/16  
04:28 03/16  
00:00 03/16  
20:36 03/15  
17:36 03/15  
14:48 03/15  
11:42 03/15  
08:48 03/15  
06:24 03/15  
03:48 03/15  
00:36 03/15  
21:42 03/14  
18:36 03/14  
15:48 03/14  
12:24 03/14  
09:36 03/14  
06:48 03/14  
04:12 03/14  
01:25 03/14  
22:00 03/13  
19:00 03/13  
16:12 03/13  
13:26 03/13  
10:36 03/13  
07:36 03/13  
05:12 03/13  
02:24 03/13  
23:24 03/12  
19:48 03/12  
17:00 03/12  
13:25 03/12  
10:12 03/12  
07:12 03/12  
04:24 03/12  
00:48 03/12  
21:36 03/11  
18:12 03/11  
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12:00 03/11  
08:48 03/11  
06:12 03/11  
03:24 03/11  
00:00 03/11

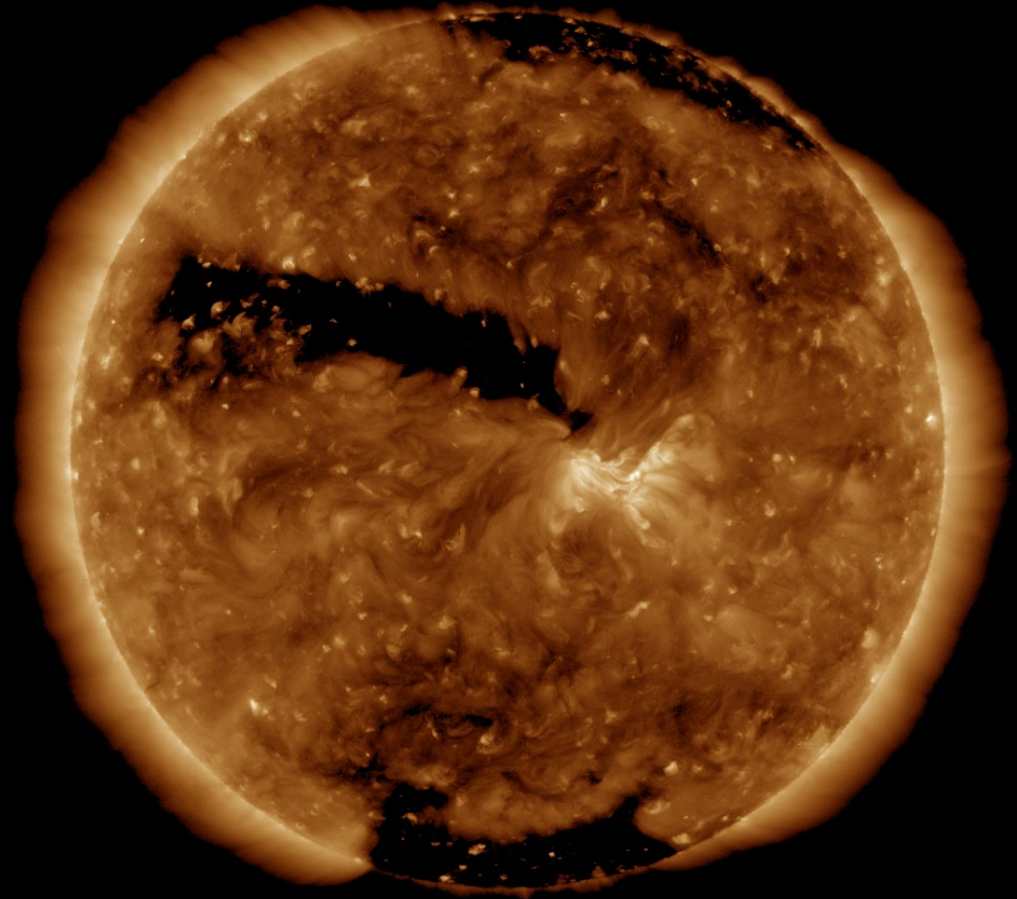


# Solar wind

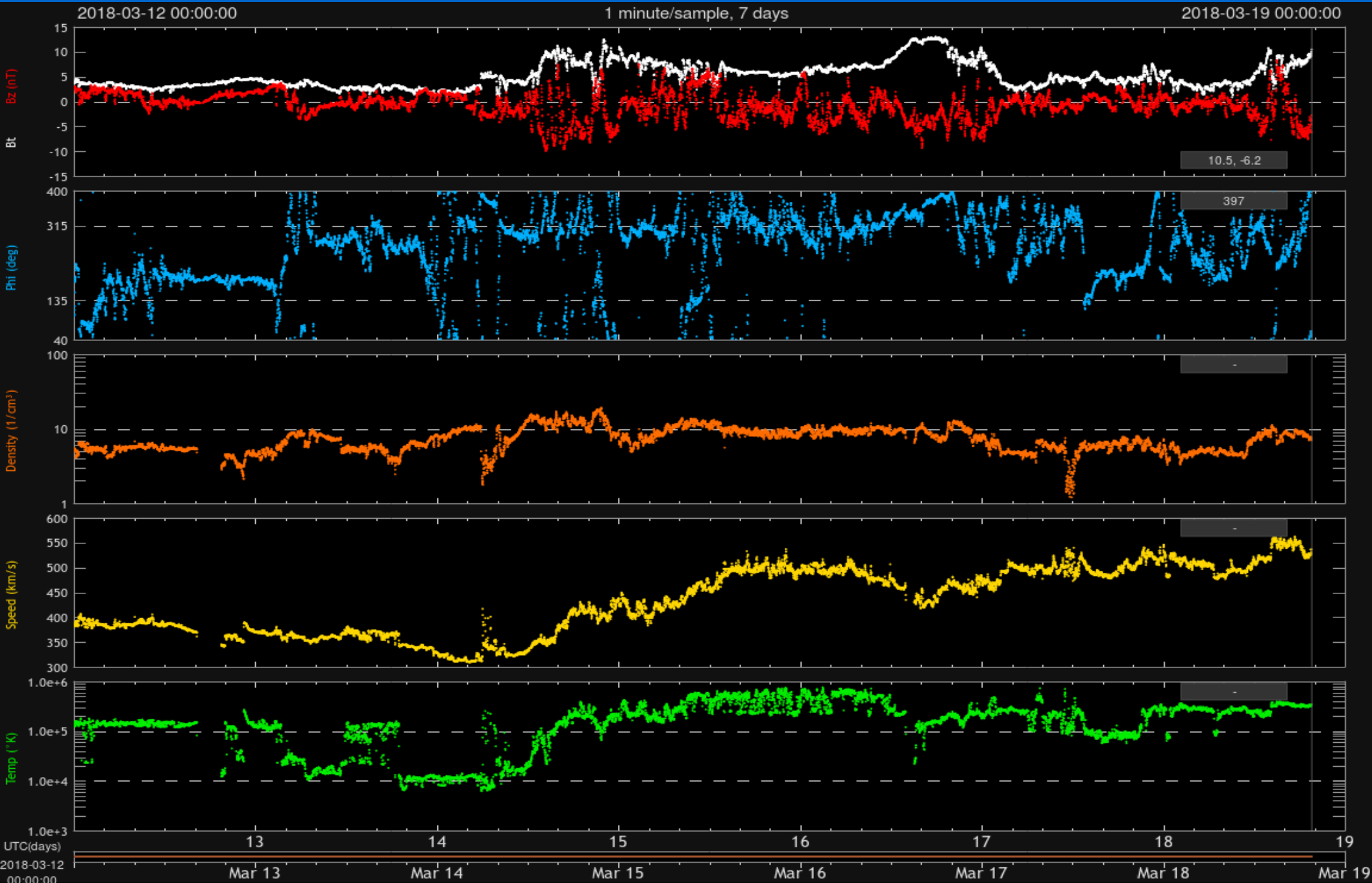
SDO/AIA AIA 193Å 2018-02-12T00:00:05.84



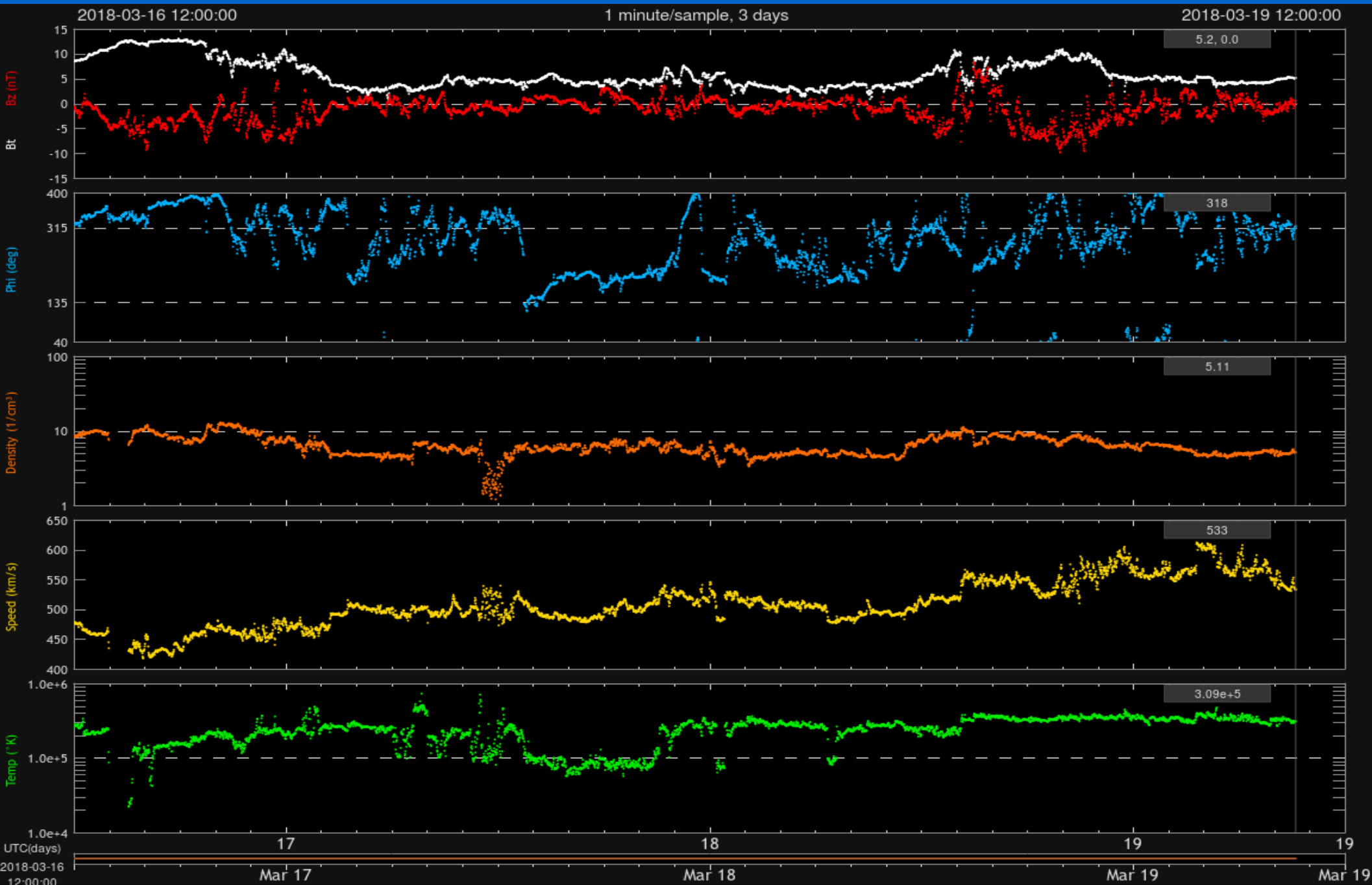
SDO/AIA AIA 193Å 2018-03-11T00:00:05.84



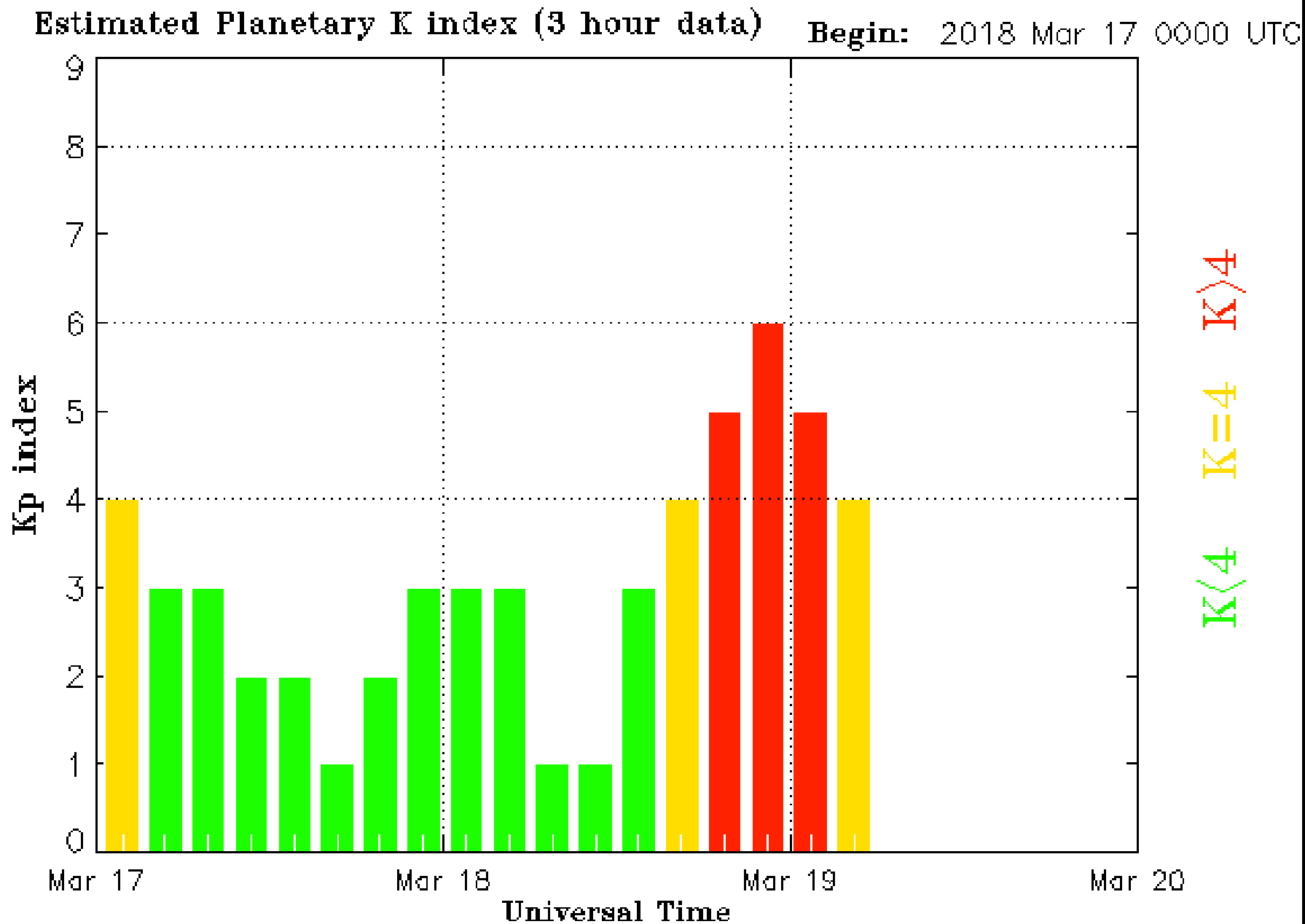
# Solar wind



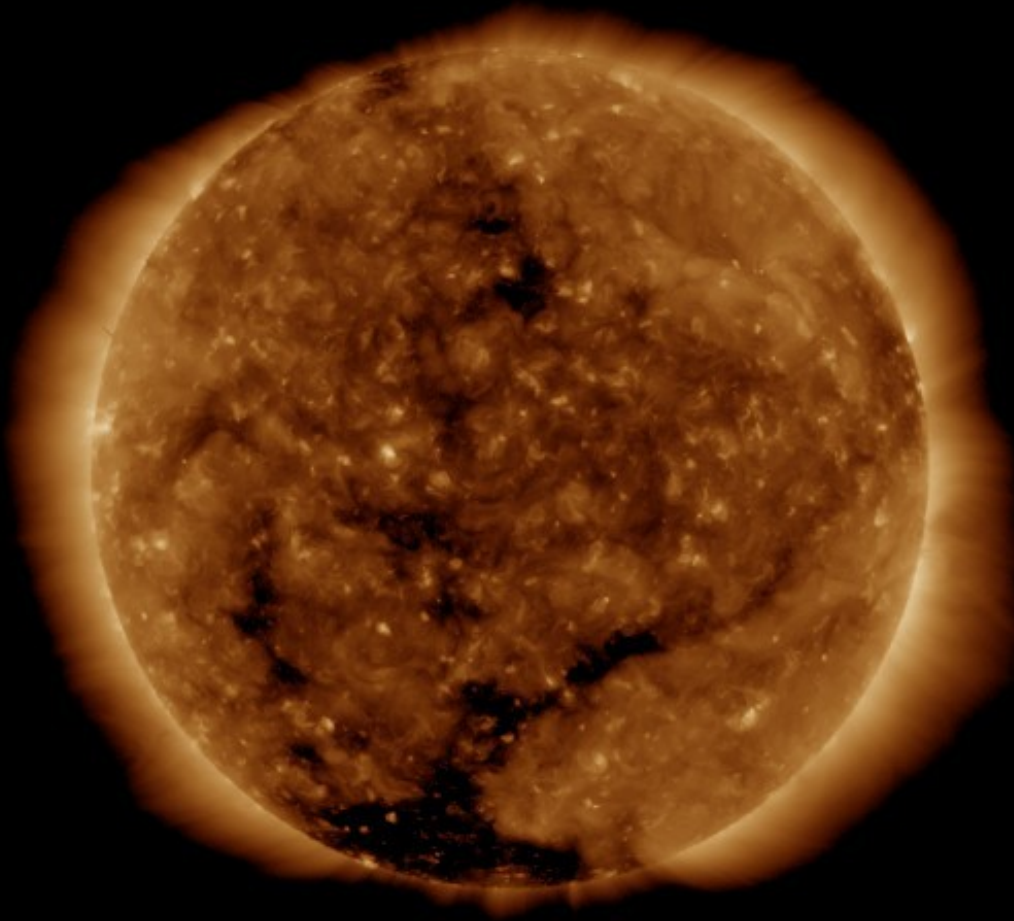
# Solar wind



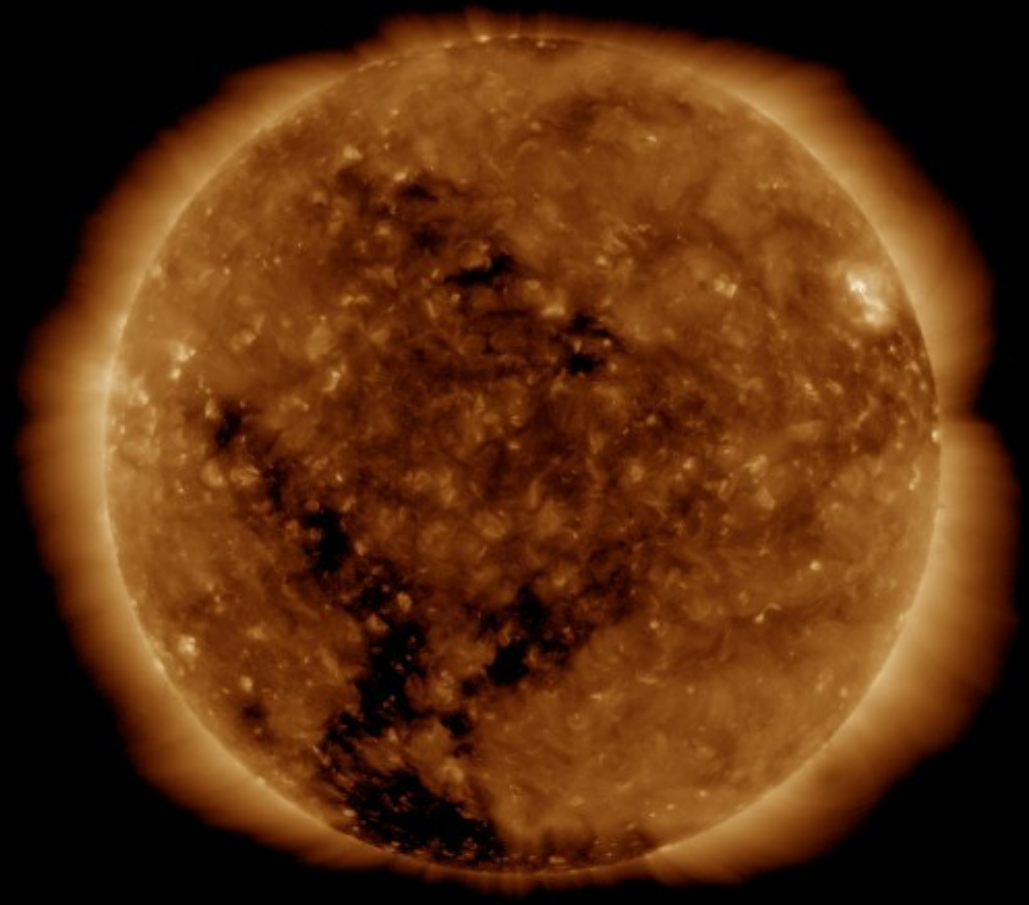
# Geomagnetism



# Solar wind outlook



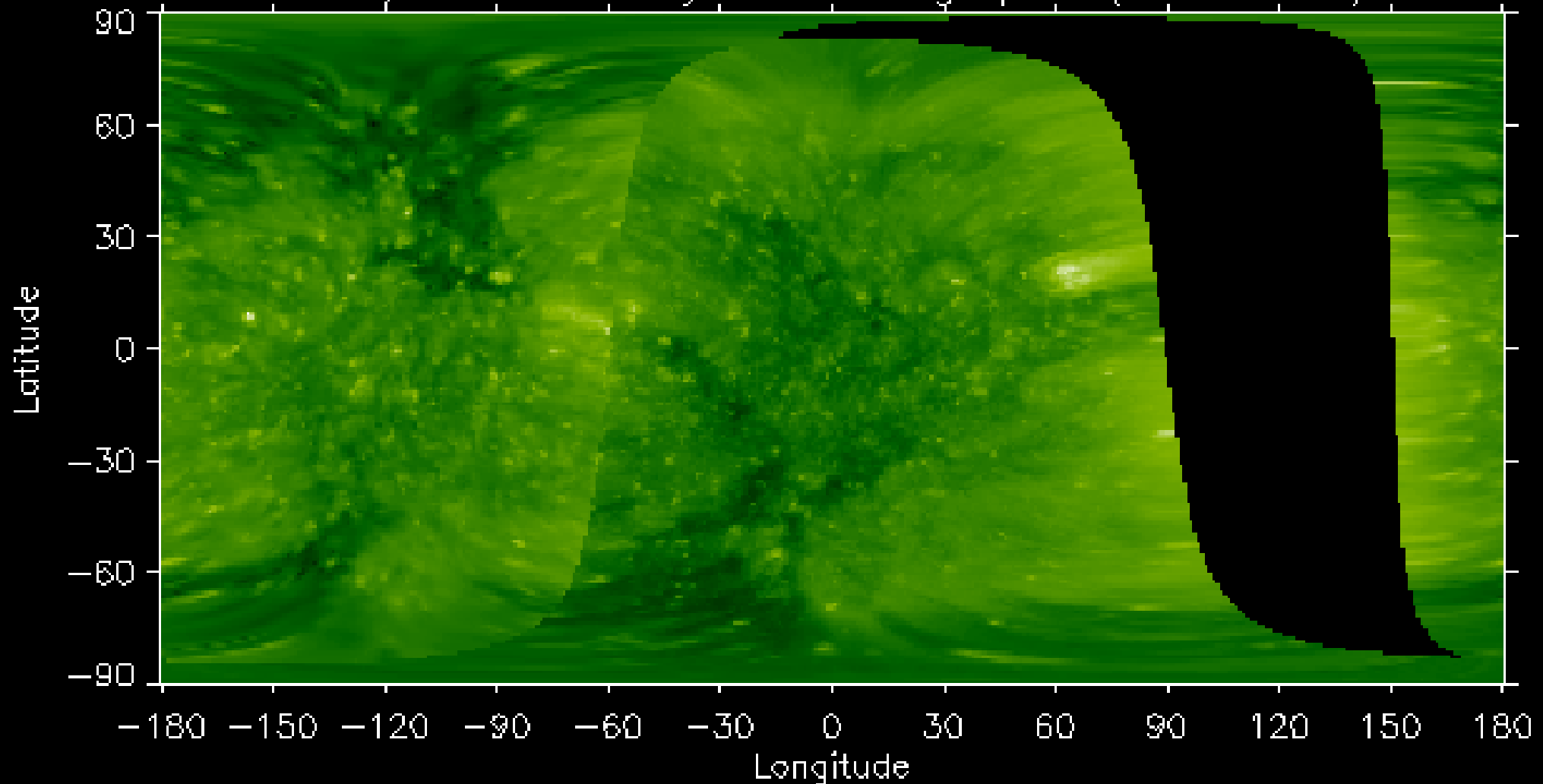
SDO/AIA 193 2018-02-20 00:40:29 UT



SDO/AIA 193 2018-03-18 23:26:17 UT

# Outlook

EUVI/AIA 195 Stonyhurst Heliographic (Earth-view)



Observation date: 2018/03/19 05:45:30

# SIDC Space Weather briefing

See you at a next briefing!

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