

SIDC Space Weather briefing

March 5-11, 2017

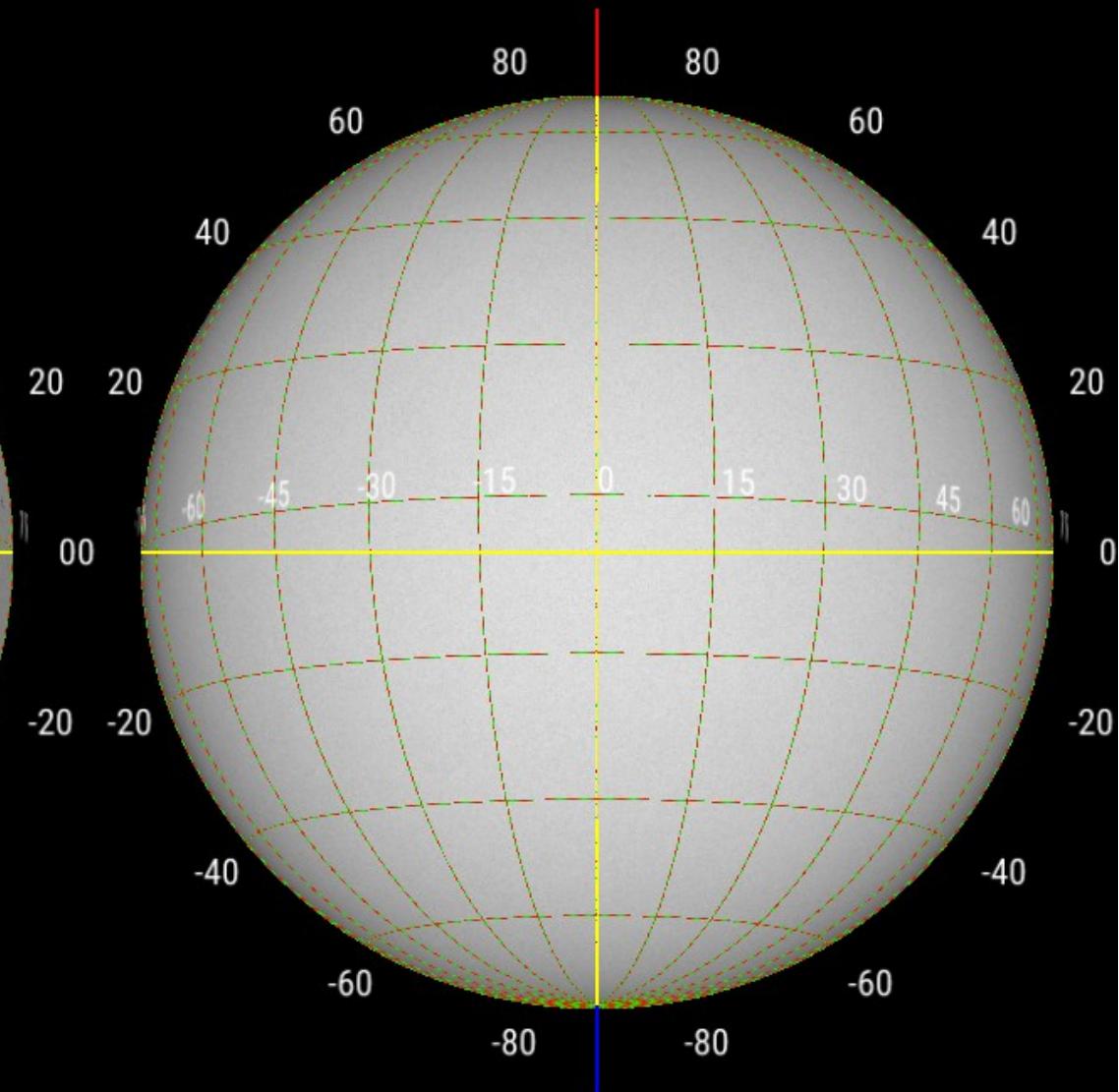
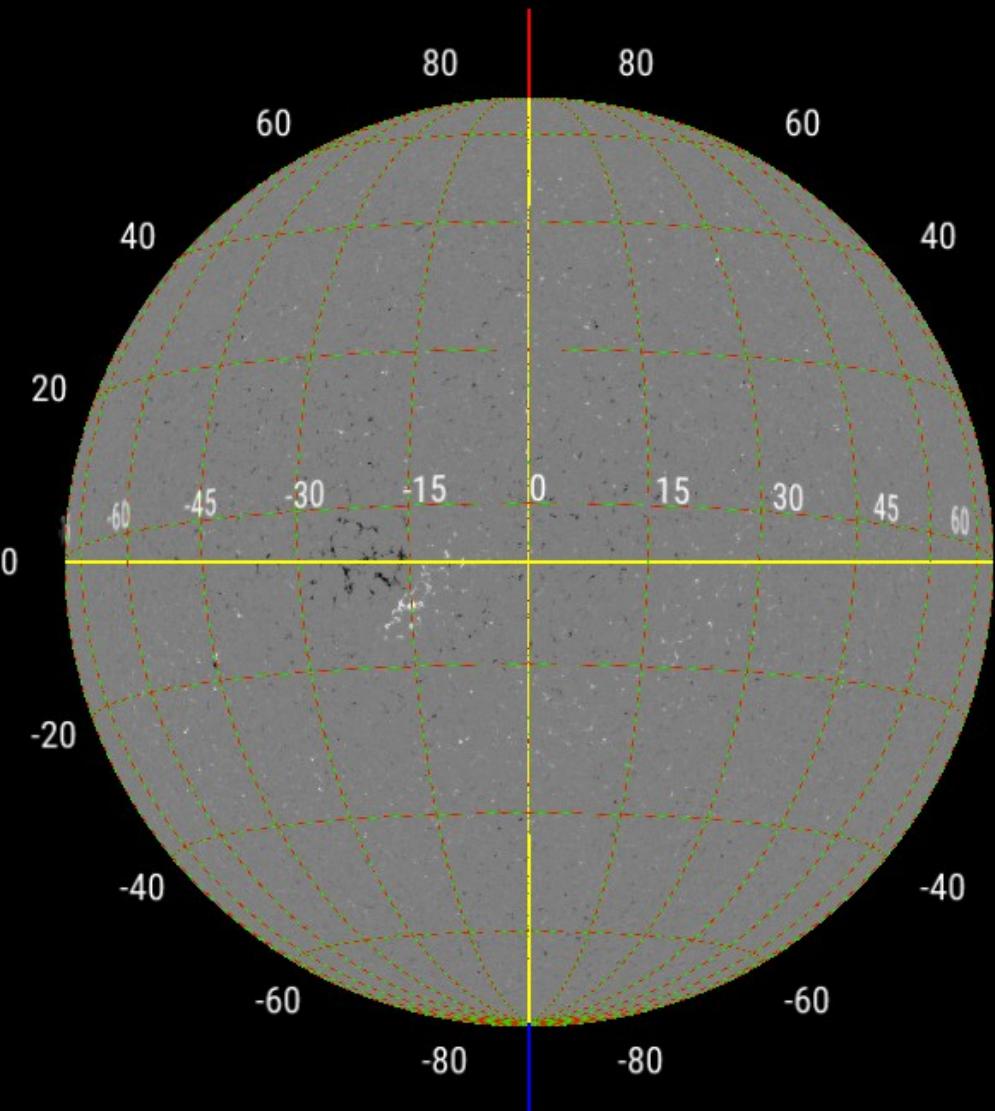
Jesse Andries
and SIDC forecaster team



Report of Solar Activity

Active Regions	No spotted regions on disk
Flaring	X-ray flux < B
Filaments	1 filament eruption near disk centre
CME's	Two weak CMEs in approach. 1 confirmed arrival
Coronal Holes	Extension of nothern polar +CH elongated +CH approaching

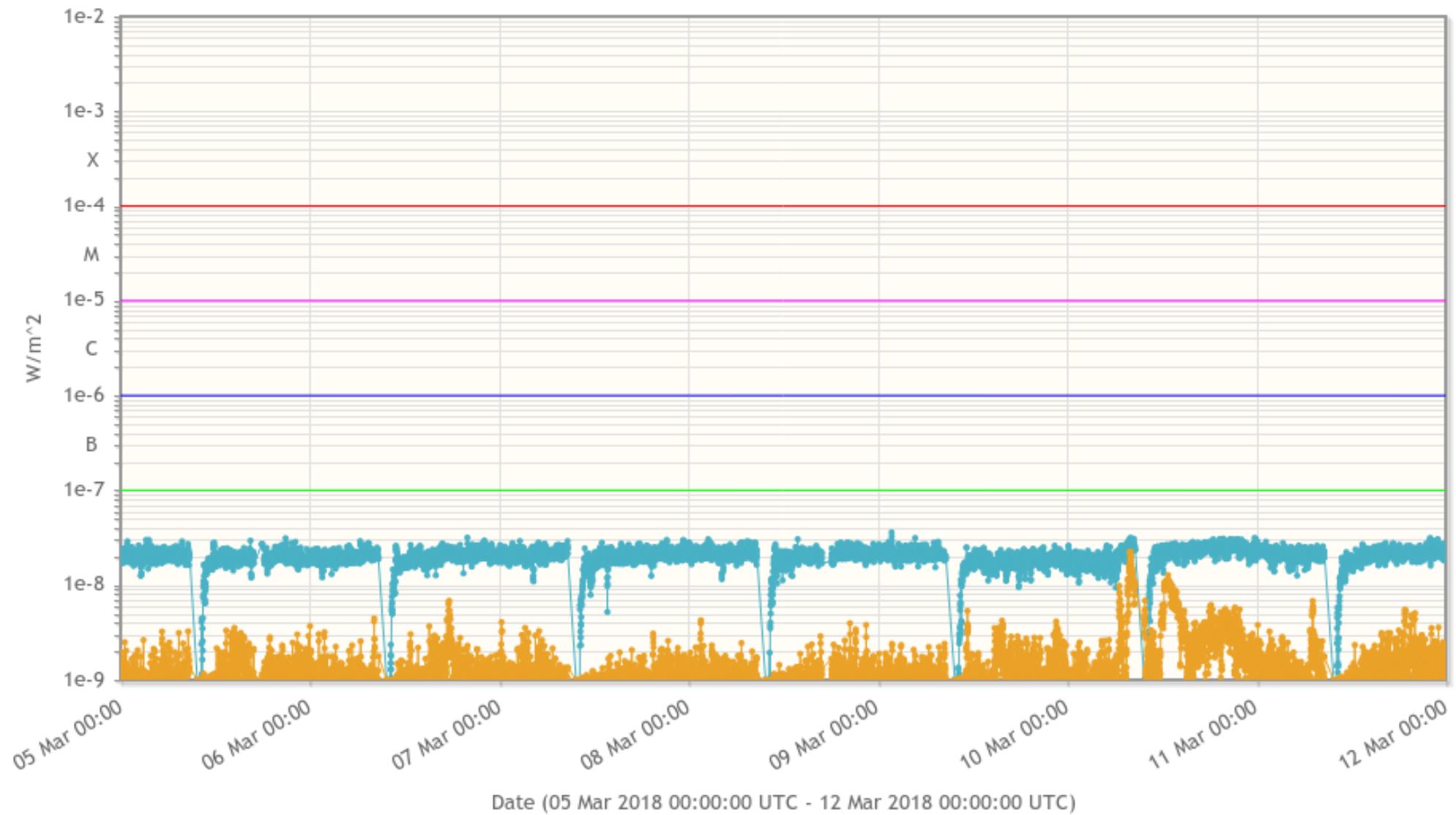
Solar active region evolution



Solar X-ray flux and flaring

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- X-Ray - GOES X-Ray flux 0.1-0.8 nm (quicklook) - 9462 data points - (raw - 1 minute data)
- X-Ray - GOES X-Ray flux 0.05-0.4 nm (quicklook) - 9462 data points - (raw - 1 minute data)



Solar X-ray flaring forecast

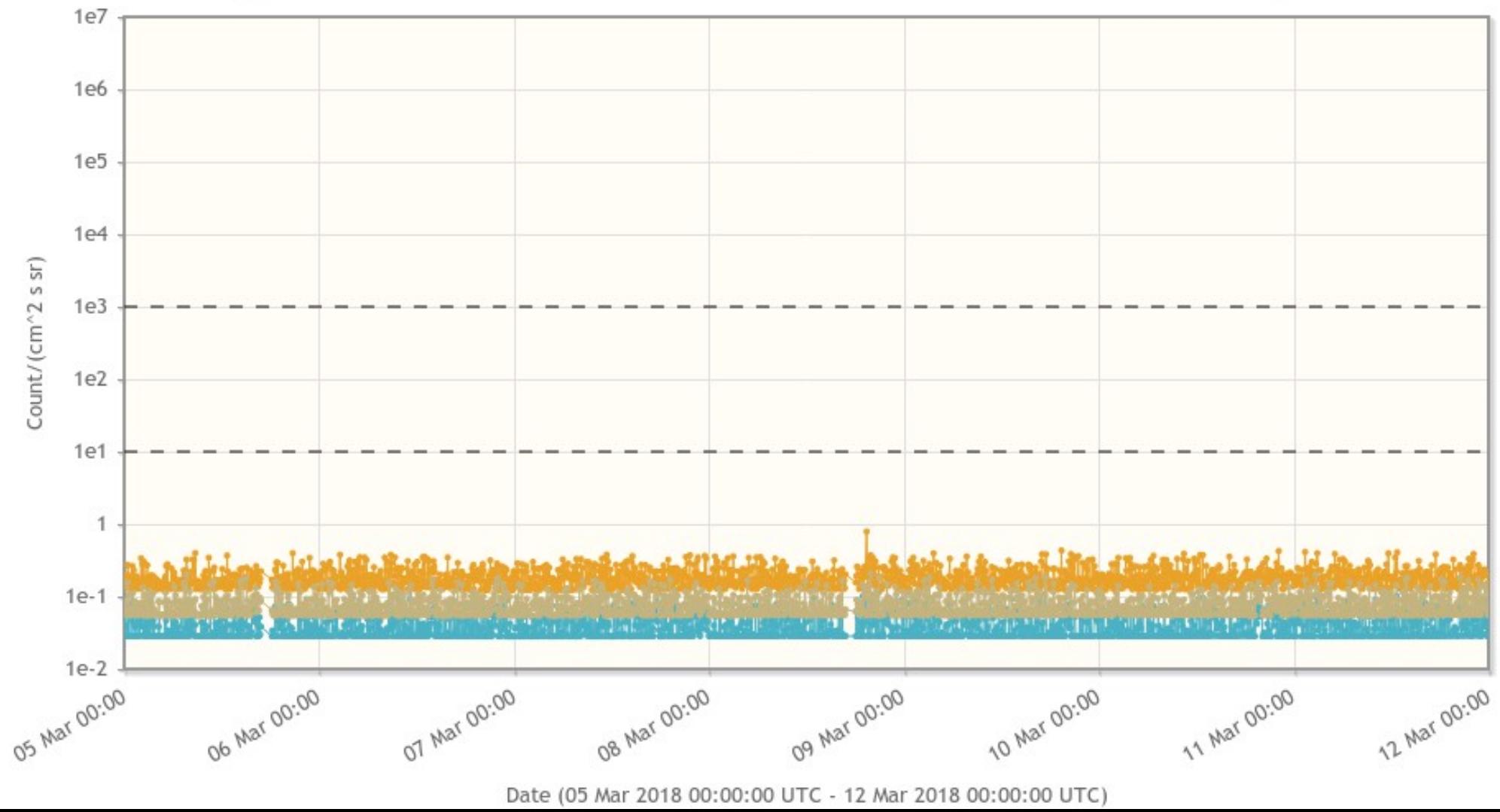
Probability for Full disk flare occurrence for 24h

	$p(C)$	$p(M)$	$p(X)$
2018-03-06T12:30	0.01	0.01	0.01
2018-03-07T12:30	0.01	0.01	0.01
2018-03-08T12:30	0.01	0.01	0.01
2018-03-09T12:30	0.01	0.01	0.01
2018-03-10T12:30	0.01	0.01	0.01
2018-03-11T12:30	0.01	0.01	0.01
2018-03-12T12:30	0.01	0.01	0.01

Energetic particles

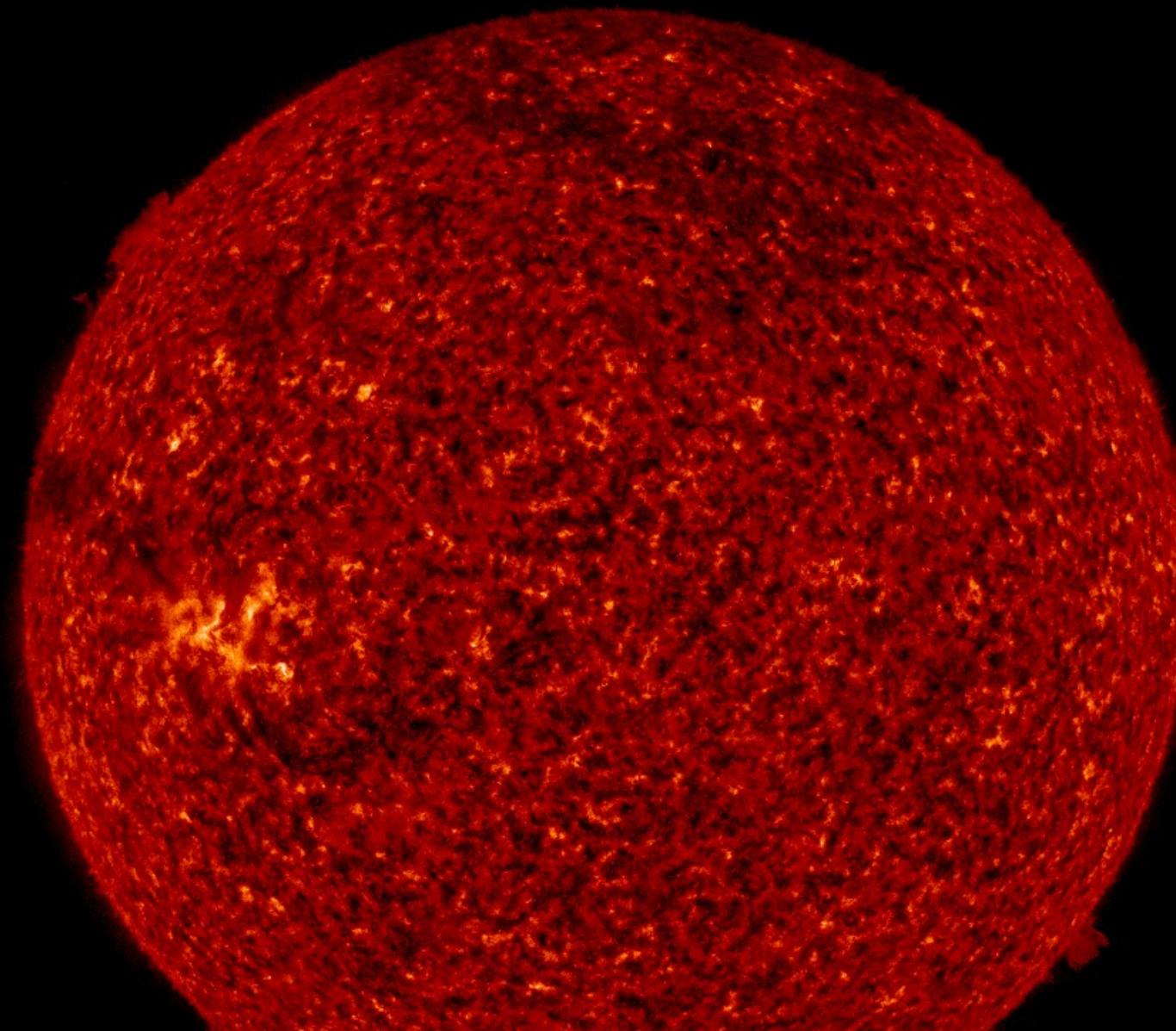
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- Protons / Electrons - GOES Particles at > 100 Mev (quicklook) - 1975 data points - (raw - 5 minute data)
- Protons / Electrons - GOES Particles at > 10 Mev (quicklook) - 1975 data points - (raw - 5 minute data)
- Protons / Electrons - GOES Particles at > 50 Mev (quicklook) - 1975 data points - (raw - 5 minute data)



Filament eruption

SDO/AIA AIA 304Å 2018-03-06T17:21:06.58



CMEs

- March 6, 1:25UT.

Very Faint CME in LASCO

But STEREO A COR2

suggests Earth bound.

→ Expected March 9, 14:30UT

- No LASCO CME from

filament eruption,

But STEREO A COR 2

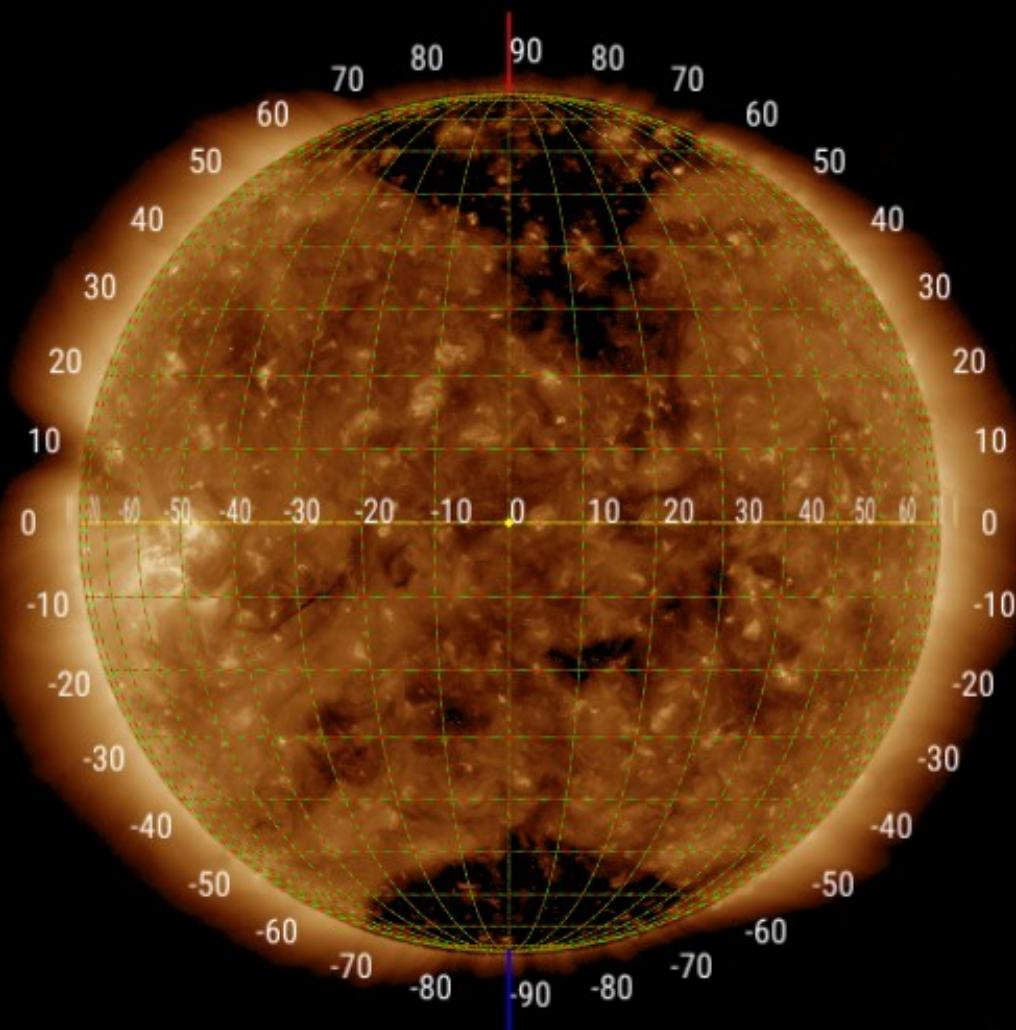
suggests Earth bound

→ Expected March 10, 14:00UT

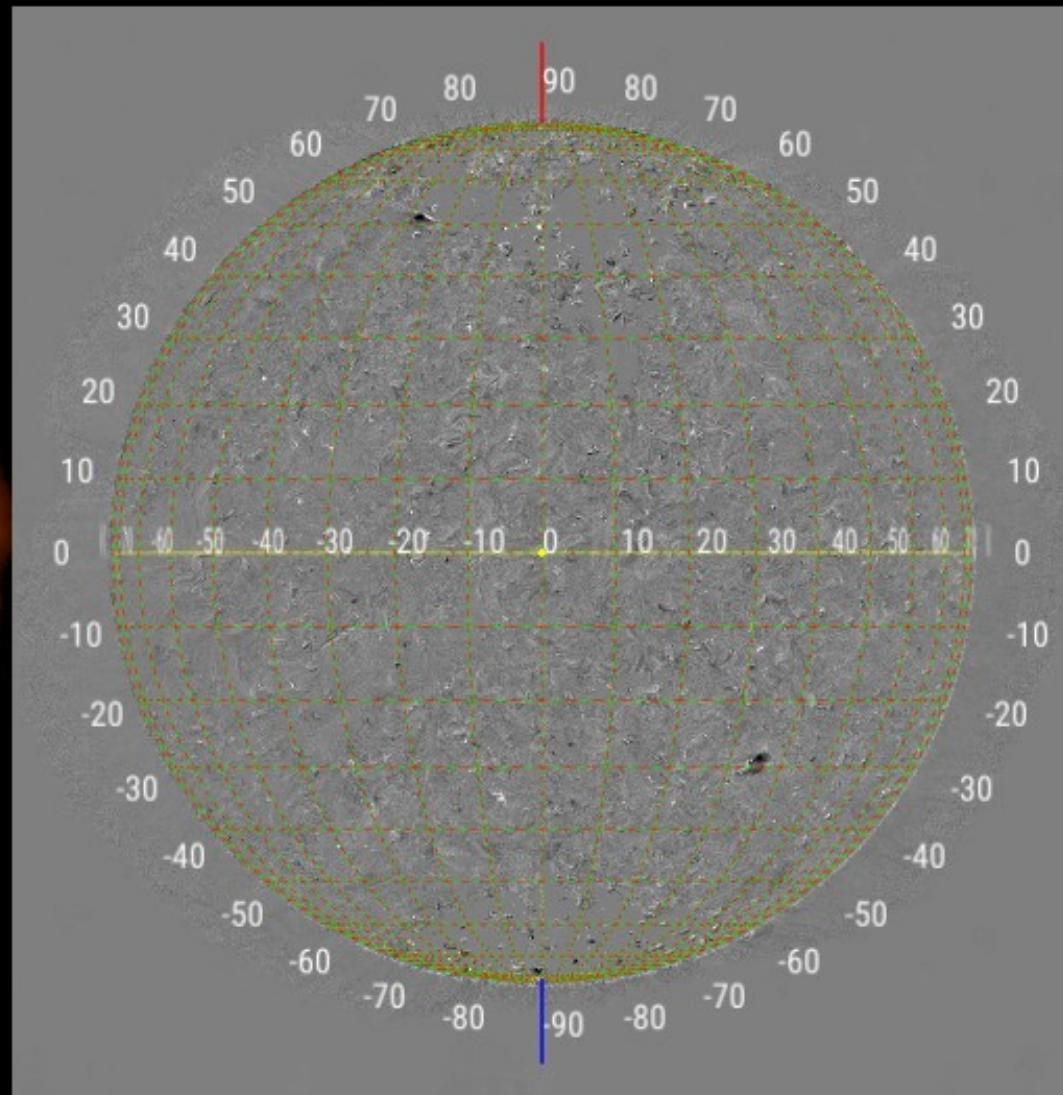
LASCO movie COR2A movie

19:12 03/10
16:00 03/10
12:36 03/10
09:54 03/10
07:12 03/10
04:36 03/10
01:36 03/10
22:12 03/09
19:18 03/09
16:12 03/09
13:25 03/09
10:24 03/09
07:24 03/09
03:12 03/09
22:36 03/08
19:24 03/08
16:36 03/08
13:25 03/08
10:12 03/08
07:12 03/08
04:24 03/08
01:36 03/08
21:48 03/07
18:36 03/07
16:00 03/07
12:36 03/07
09:48 03/07
07:00 03/07
04:06 03/07
00:48 03/07
21:36 03/06
18:24 03/06
15:54 03/06
12:24 03/06
09:36 03/06
06:24 03/06
03:24 03/06
23:48 03/05
20:24 03/05
16:48 03/05
13:36 03/05
10:12 03/05
07:24 03/05
04:24 03/05
00:48 03/05
21:24 03/04
18:00 03/04
15:16 03/04
11:36 03/04
08:48 03/04
06:06 03/04
03:24 03/04
00:00 03/04

Potential source of first CME

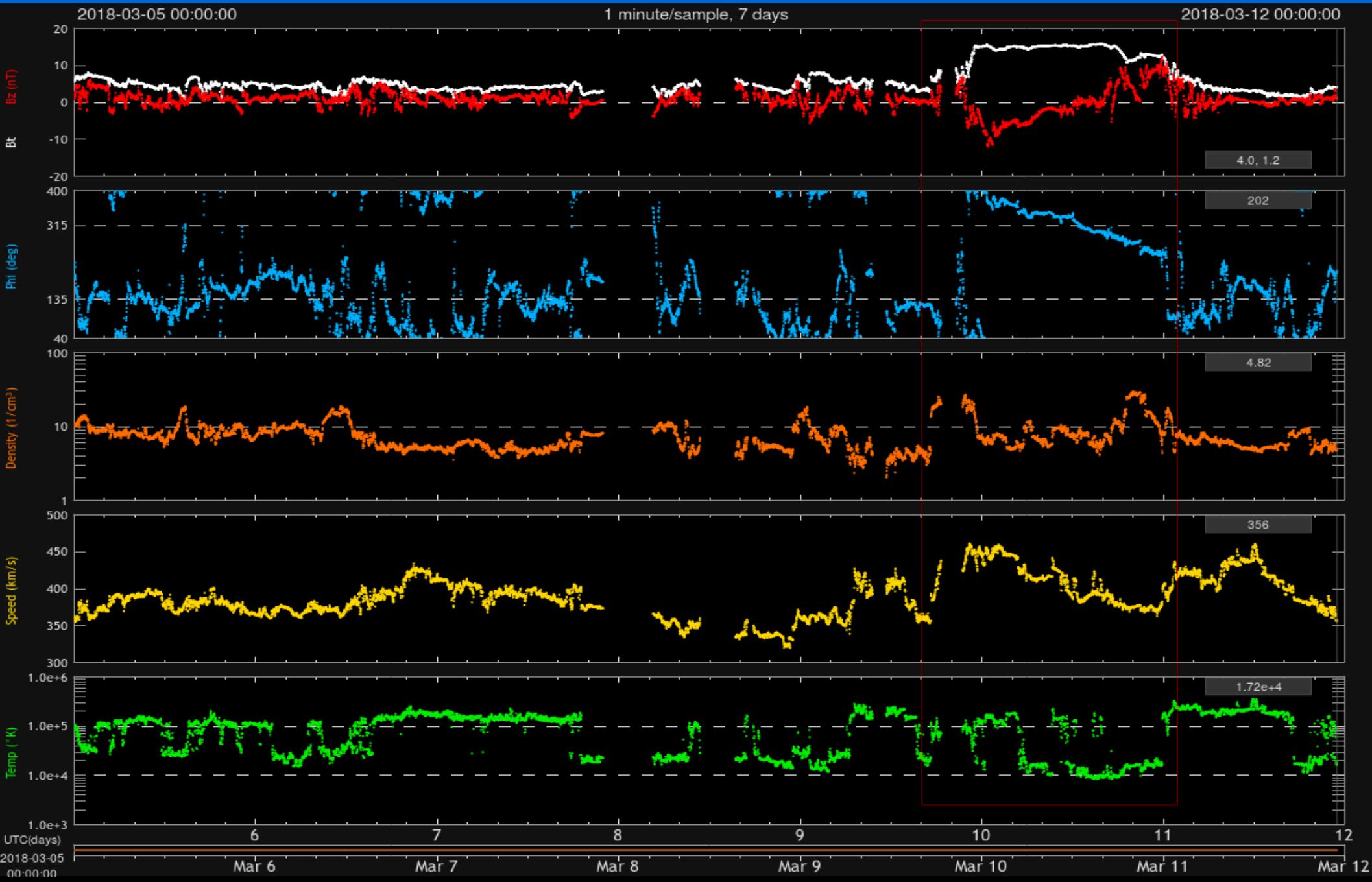


2018-03-05T23:07:40 AIA 193



2018-03-05T23:07:40 AIA 193

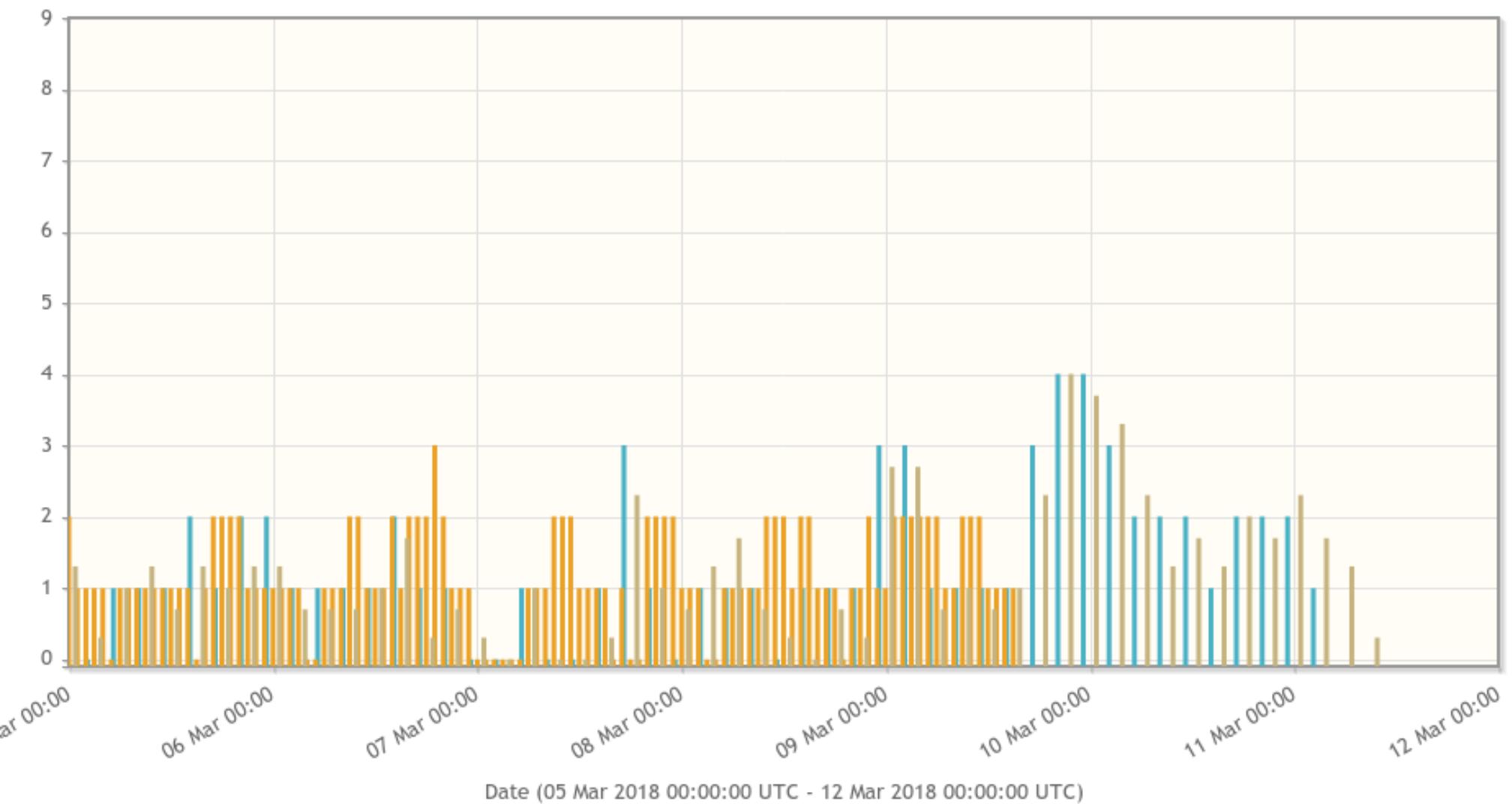
Solar wind



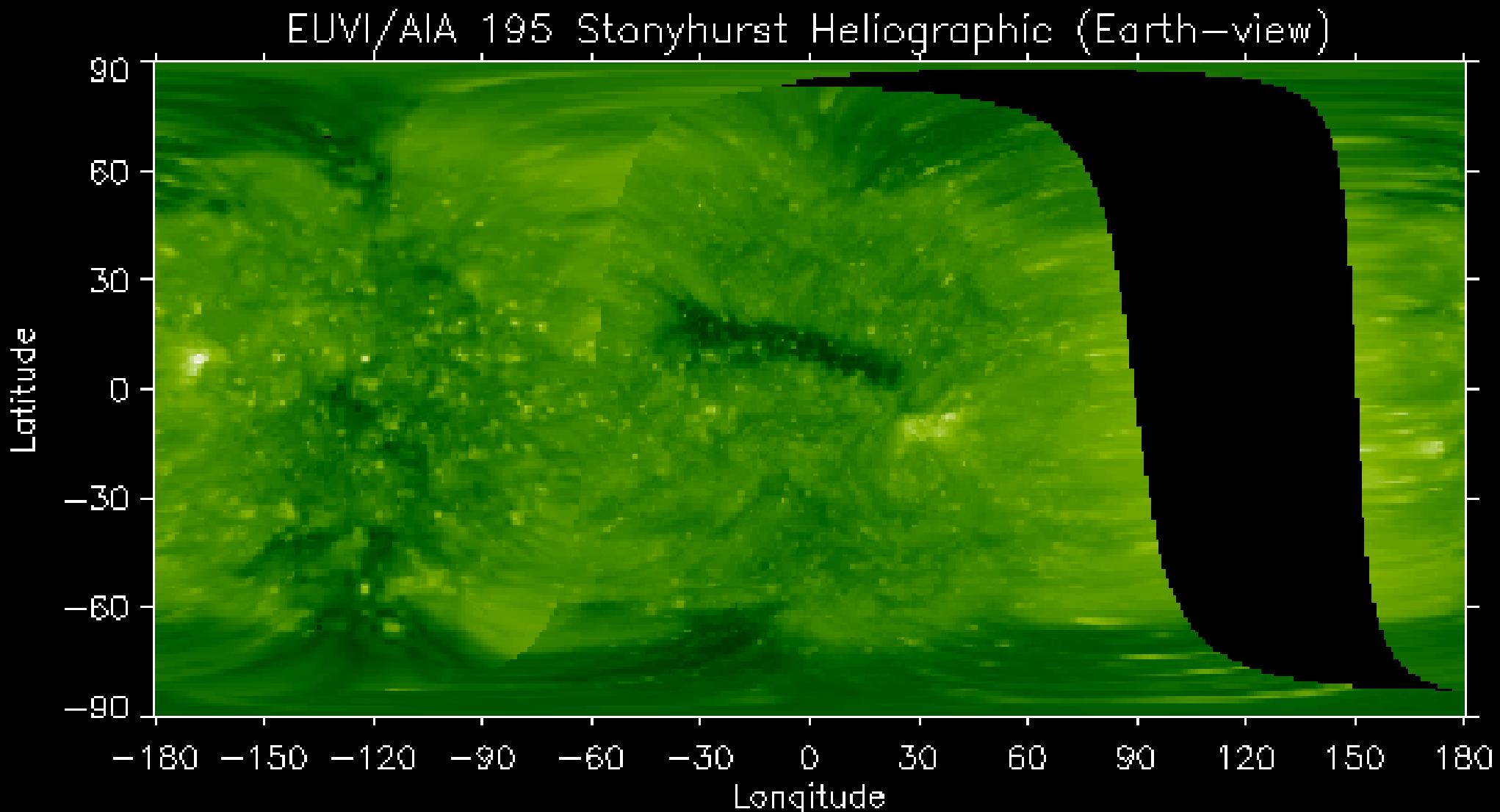
Geomagnetism

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- Geomagnetic - K (Chambon-La-Forêt) (quicklook) - 50 data points - (raw - 3 hour data)
- Geomagnetic - K (Dourbes) (quicklook) - 112 data points - (raw - 3 hour data)
- Geomagnetic - Kp (Potsdam) (quicklook) - 52 data points - (raw - 3 hour data)



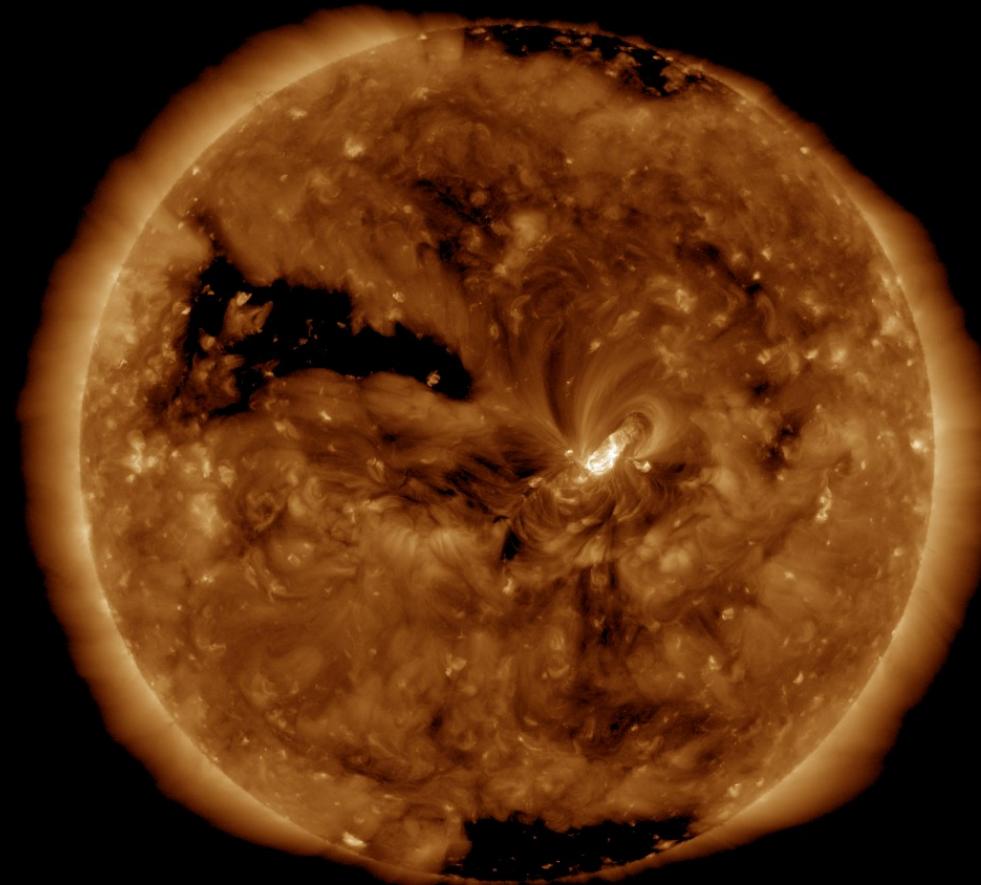
Outlook



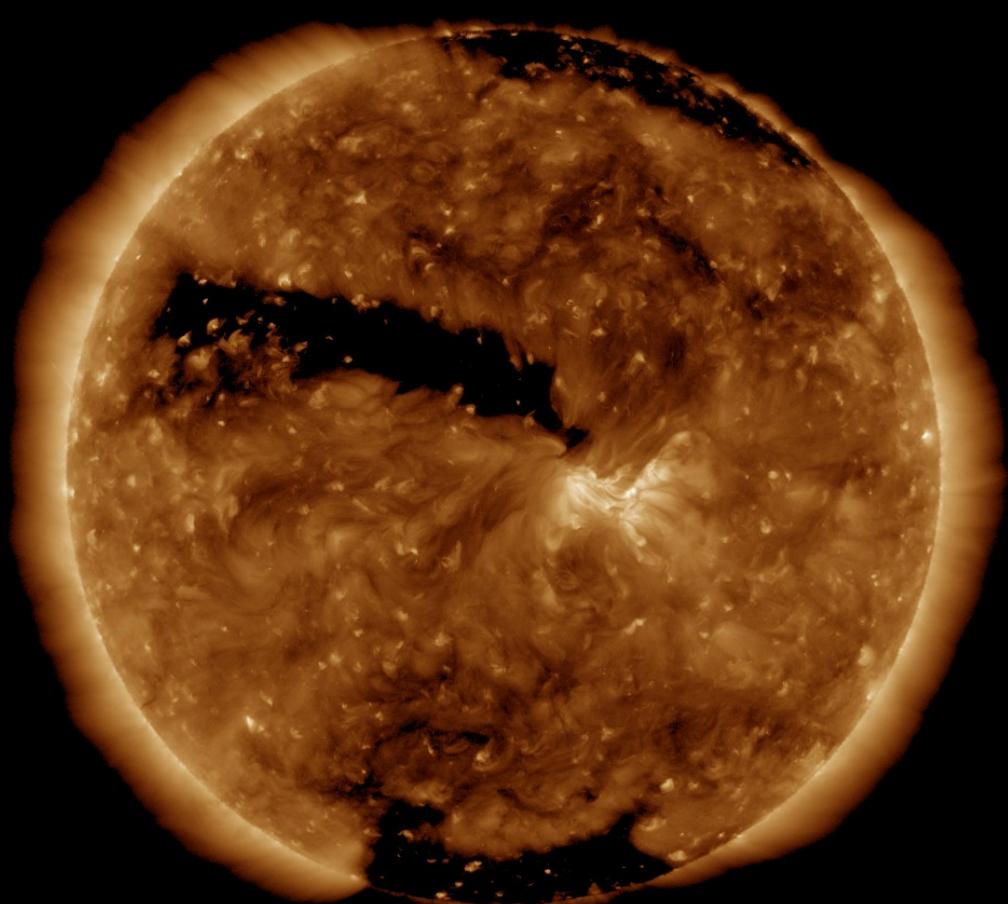
Observation date: 2018/03/12 08:05:30

Solar wind outlook

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



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



SIDC Space Weather briefing

See you at a next briefing!

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