

# SIDC Space Weather briefing

March 5-11, 2017

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and SIDC forecaster team

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

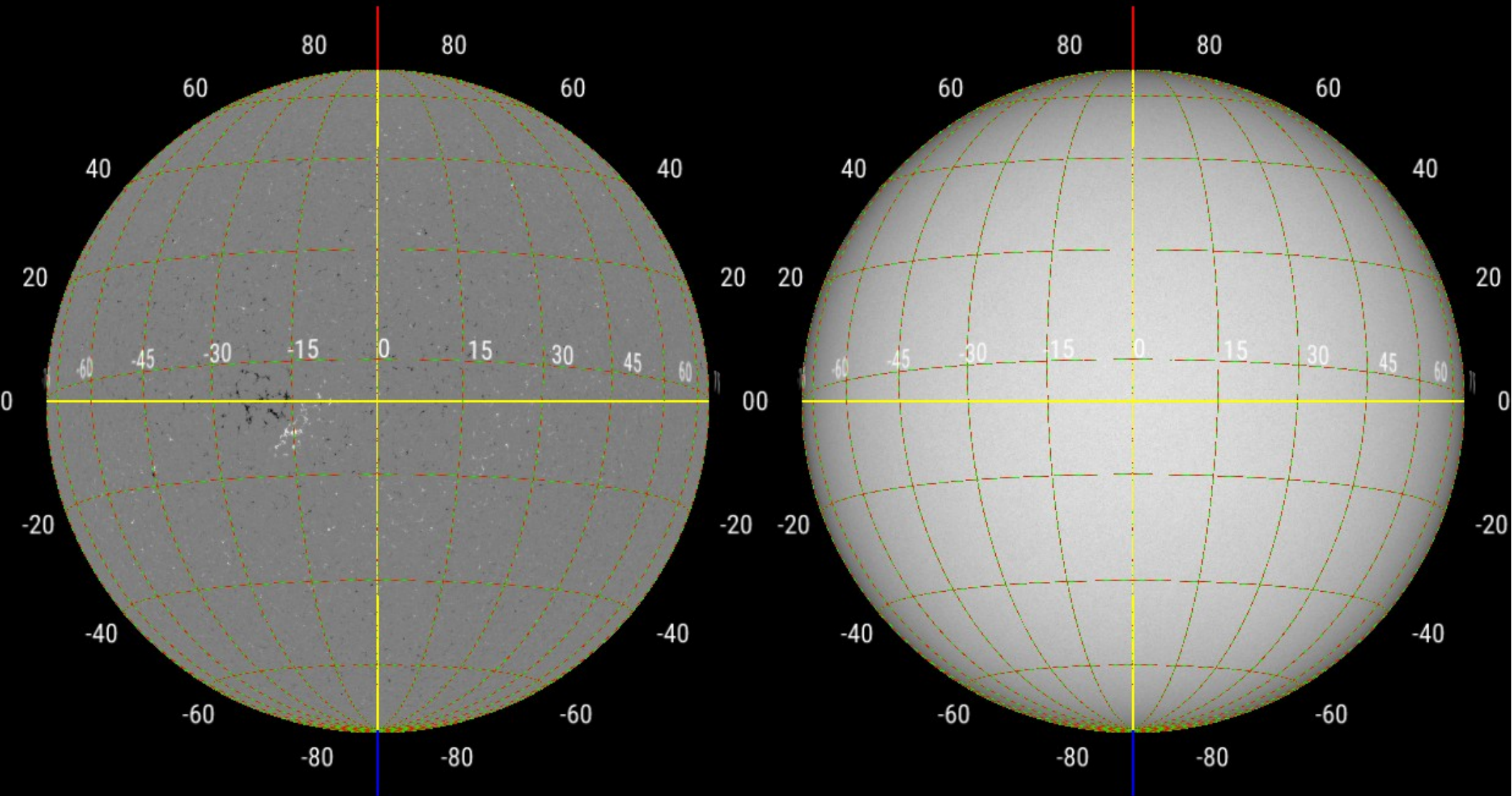


Royal Observatory  
of Belgium

# Report of Solar Activity

Active Regions	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 northern polar +CH elongated +CH approaching

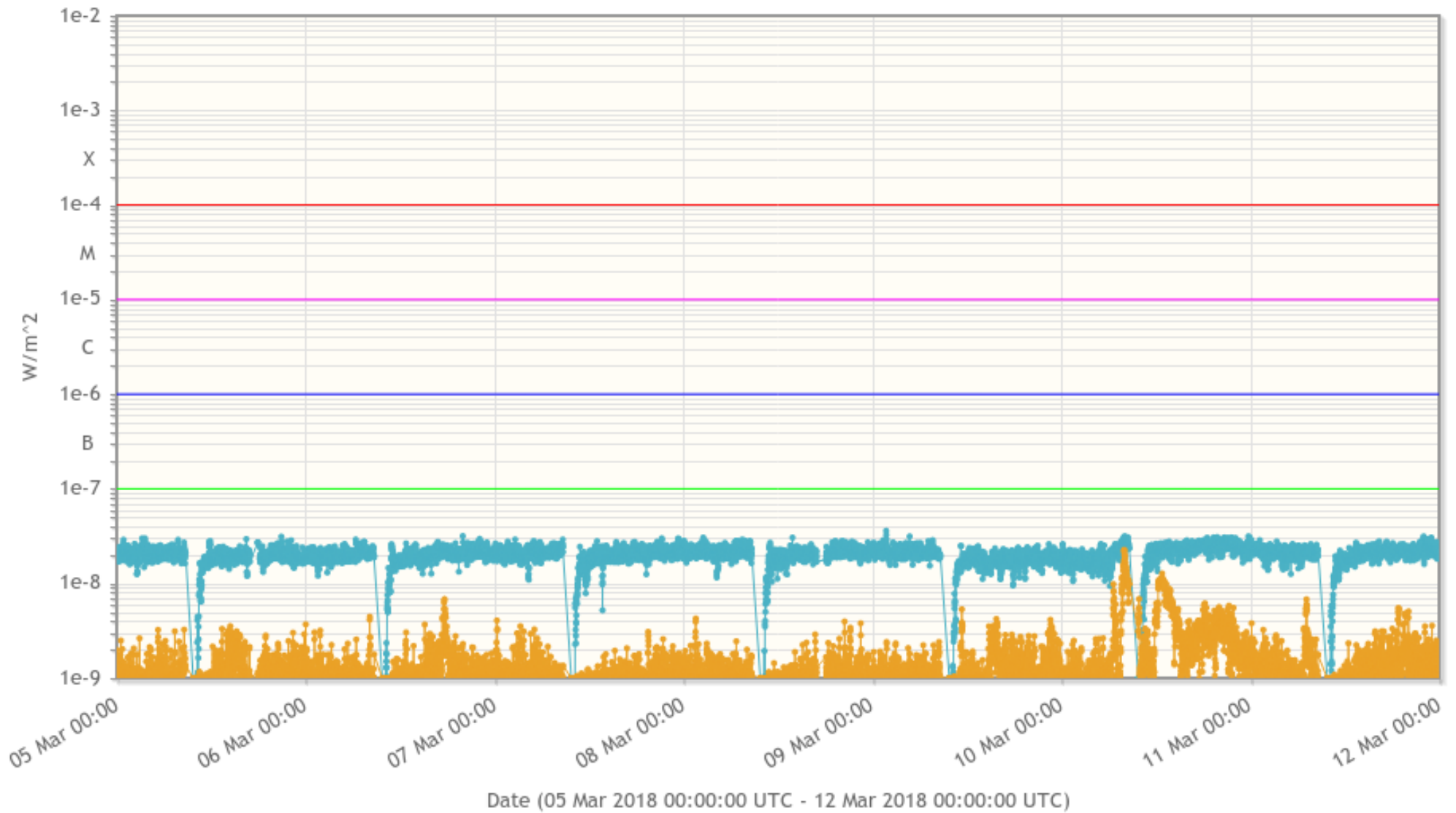
# Solar active region evolution



# Solar X-ray flux and flaring

www.staff.oma.be

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)



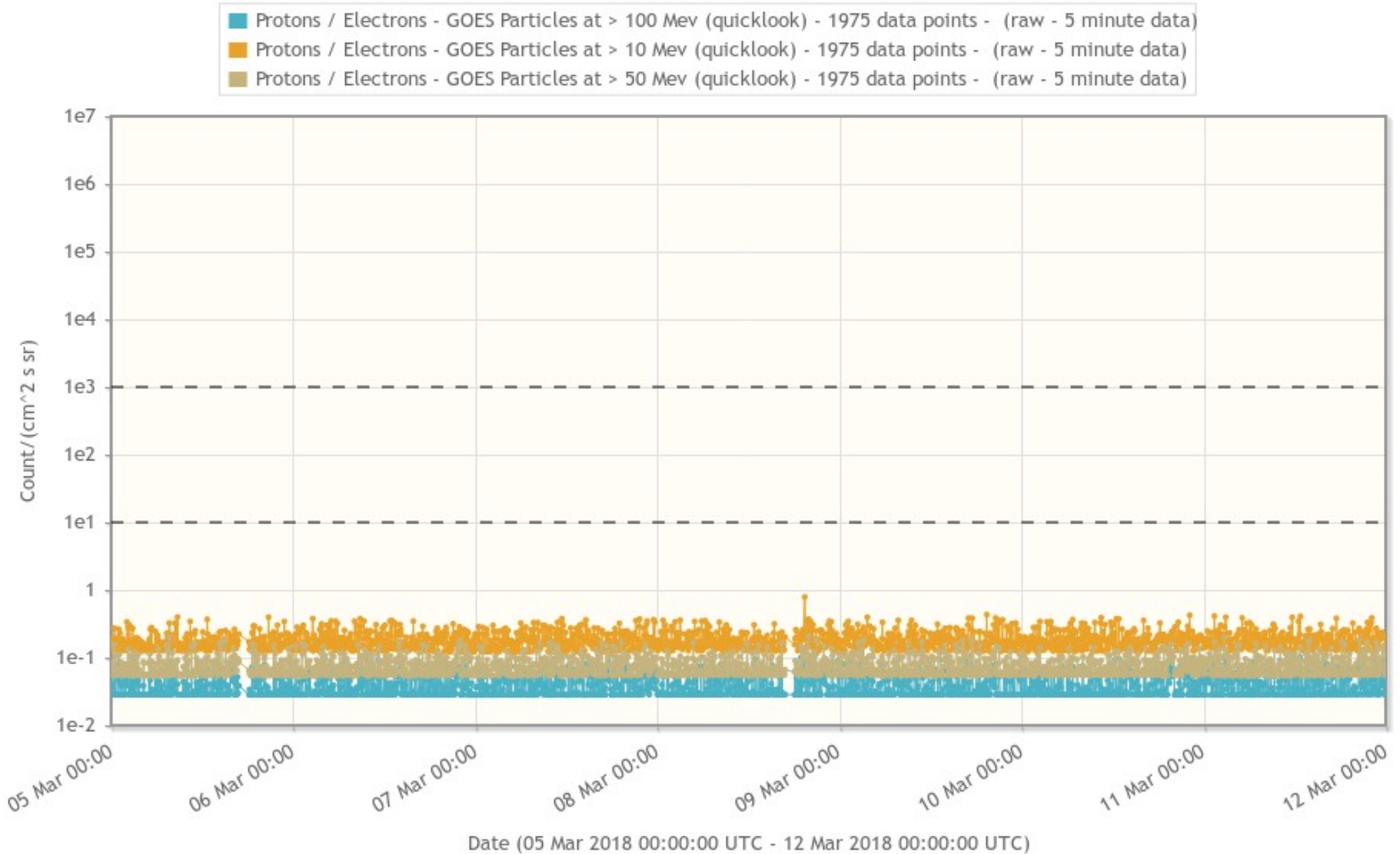
# Solar X-ray flaring forecast

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

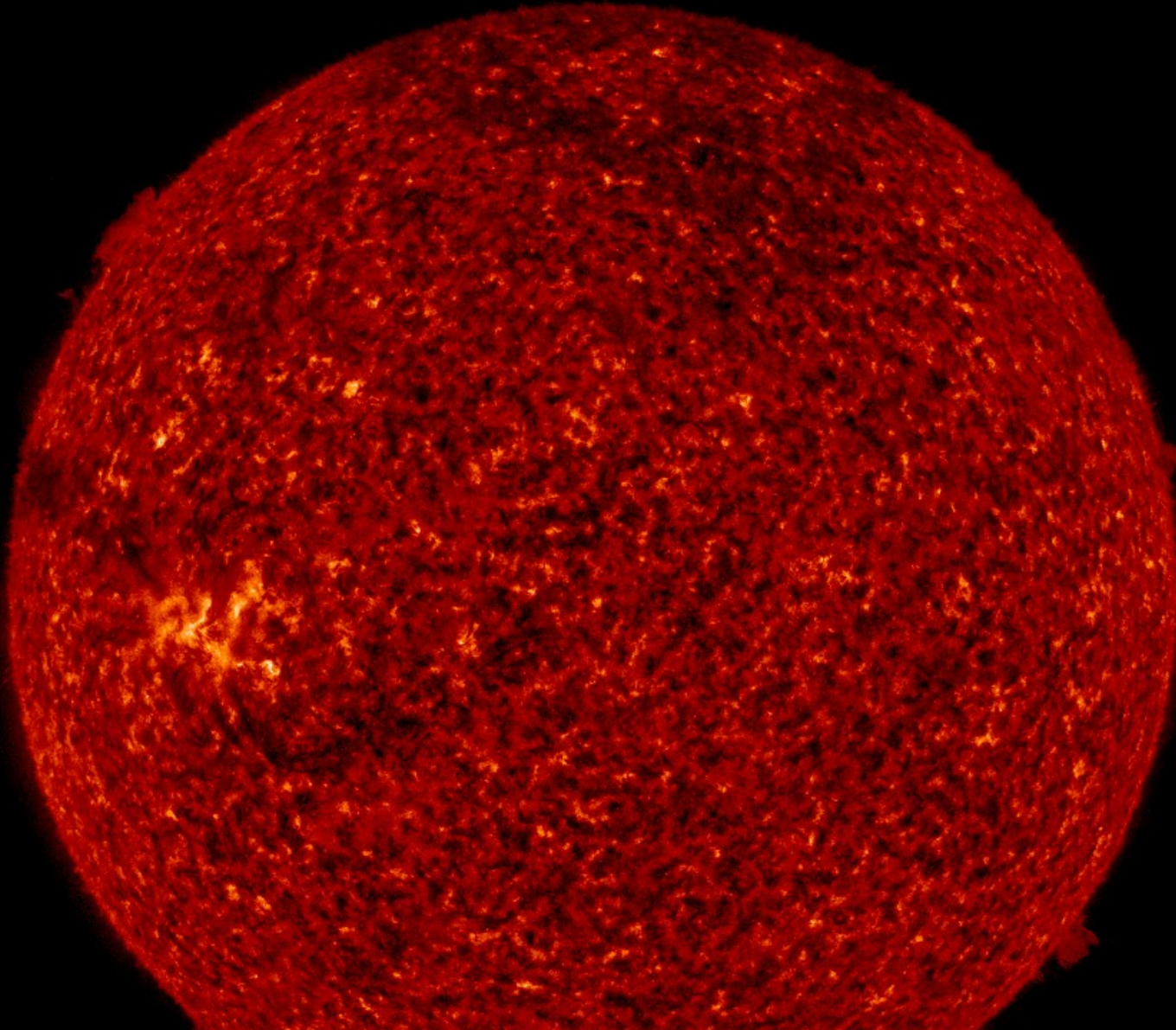
# Energetic particles

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# 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

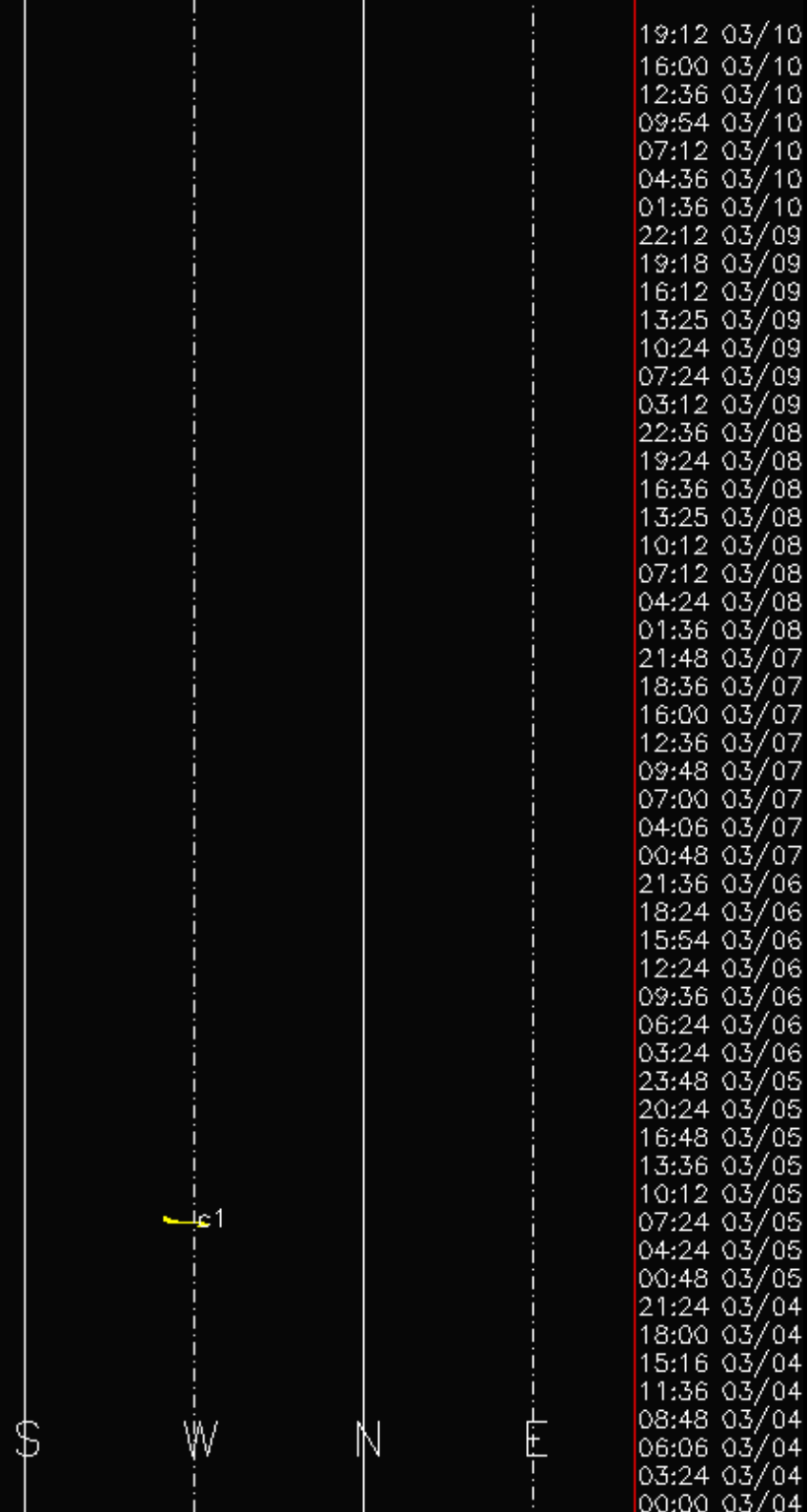
filament eruption,

But STEREO A COR 2

suggests Earth bound

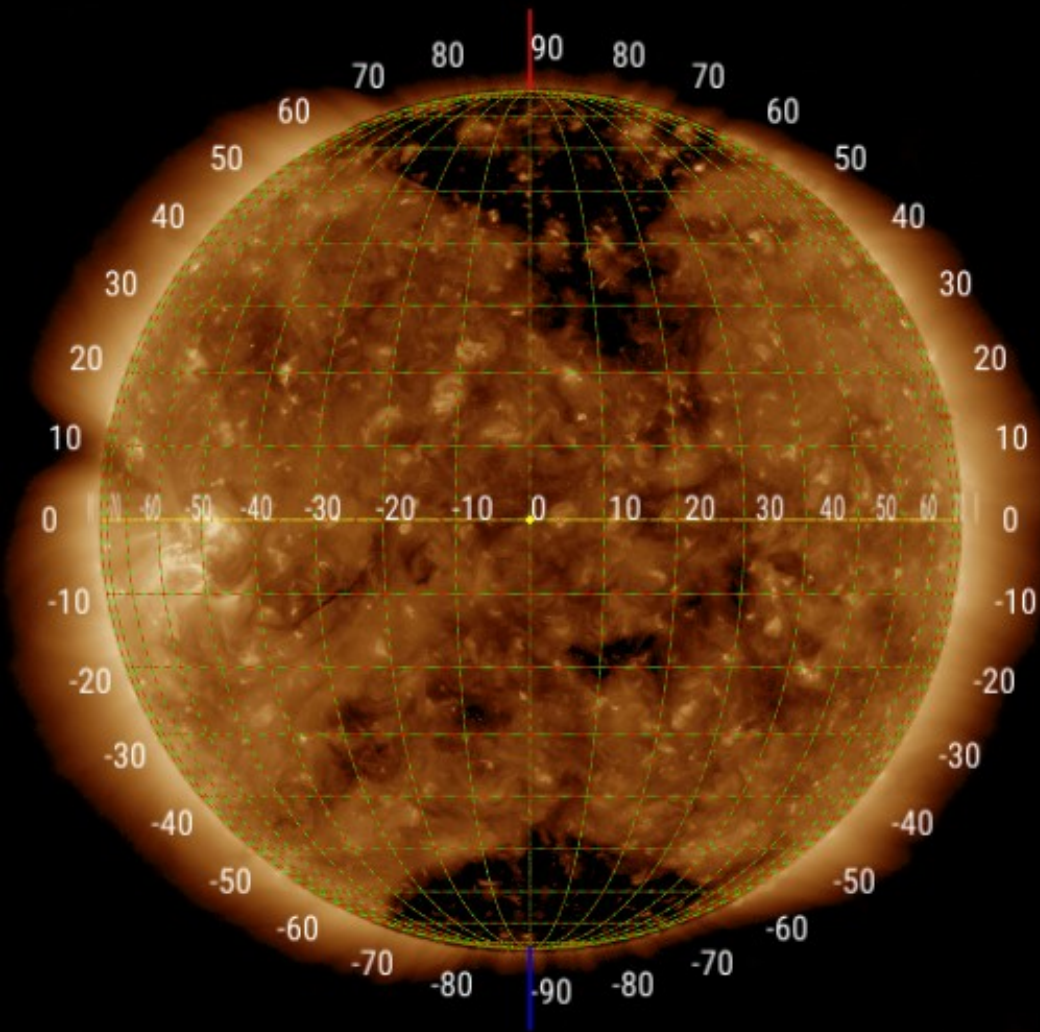
→ Expected March 10, 14:00UT

LASCO movie COR2A movie

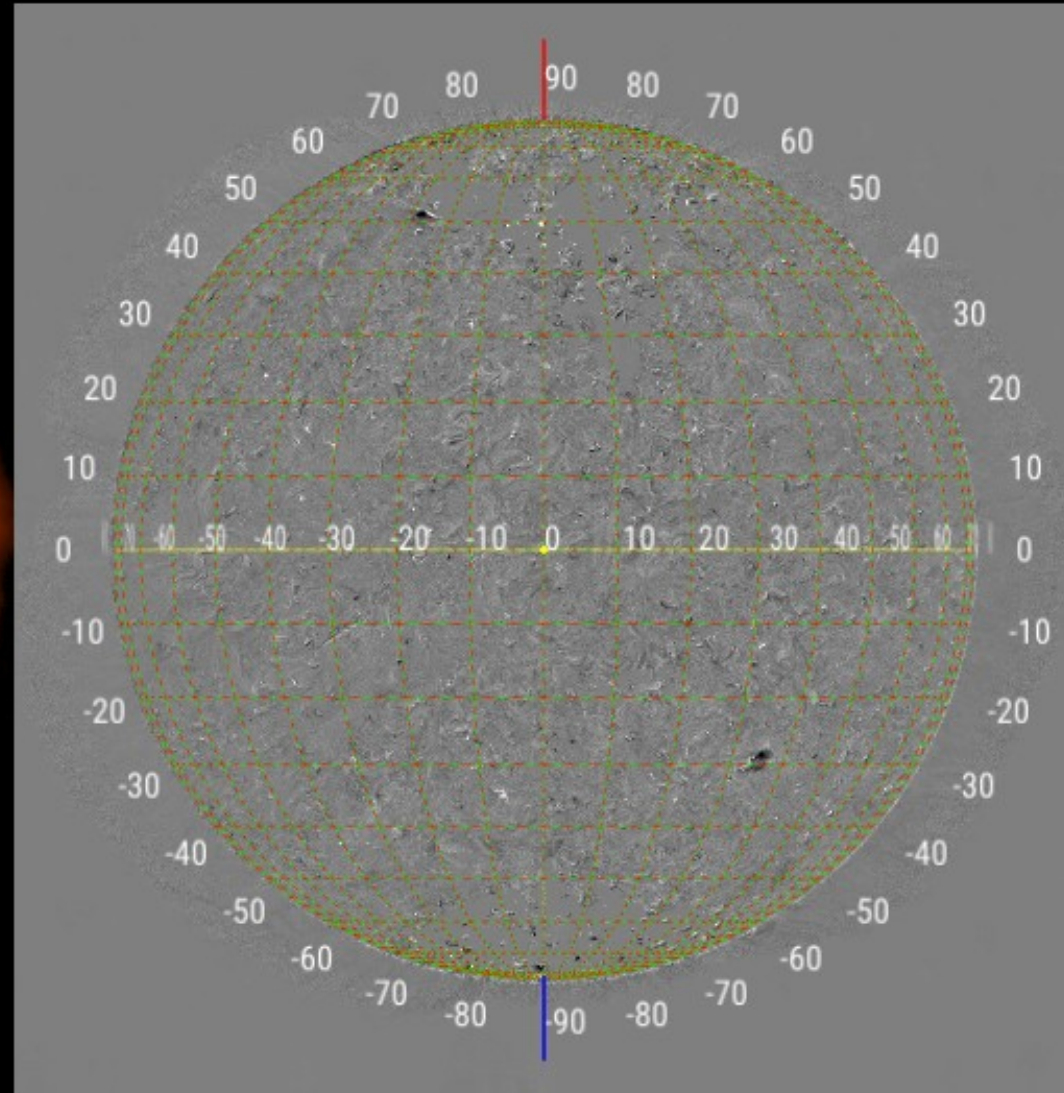




# Potential source of first CME

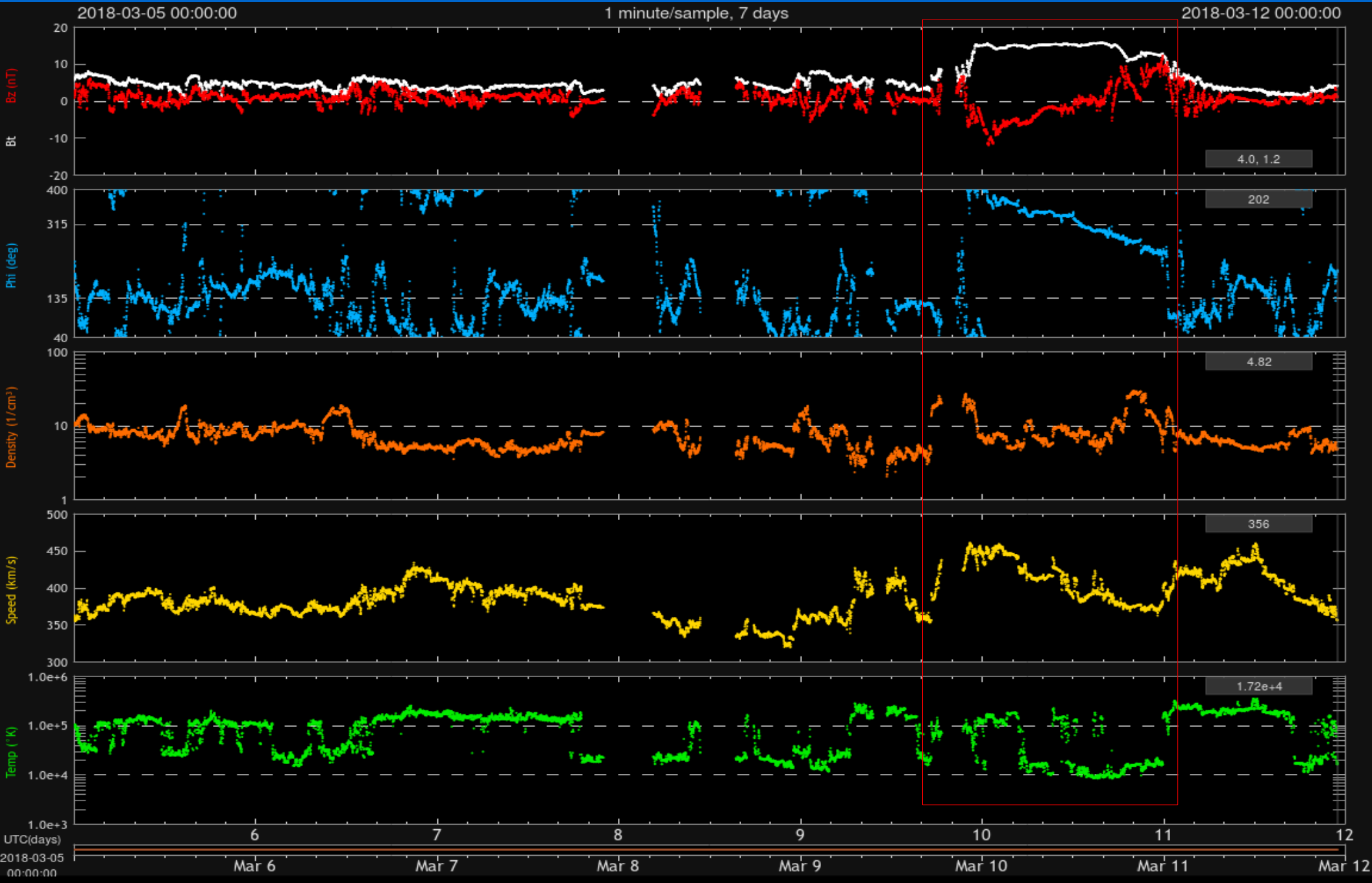


2018-03-05T23:07:40 AIA 193



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

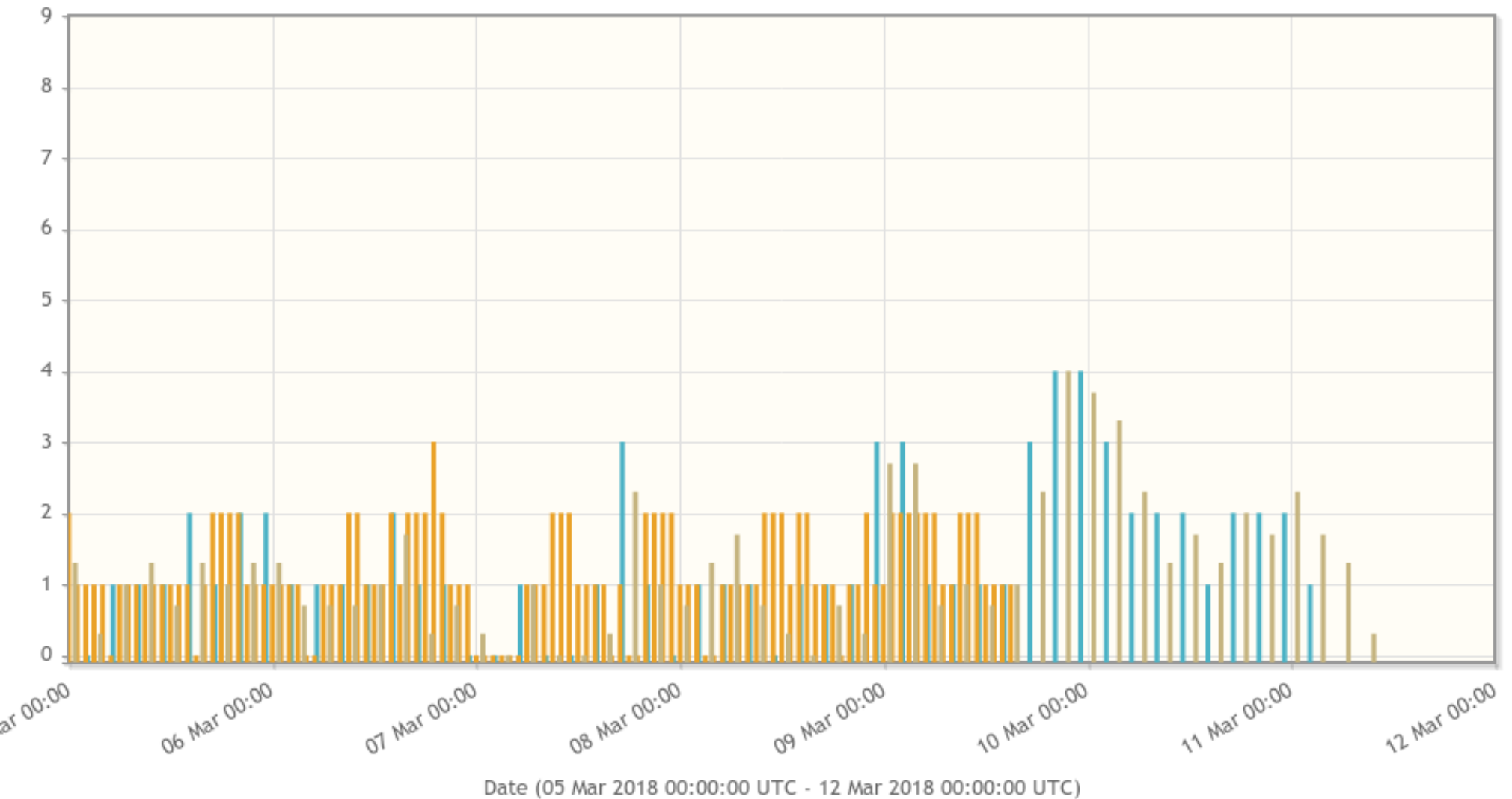
# Solar wind



# Geomagnetism

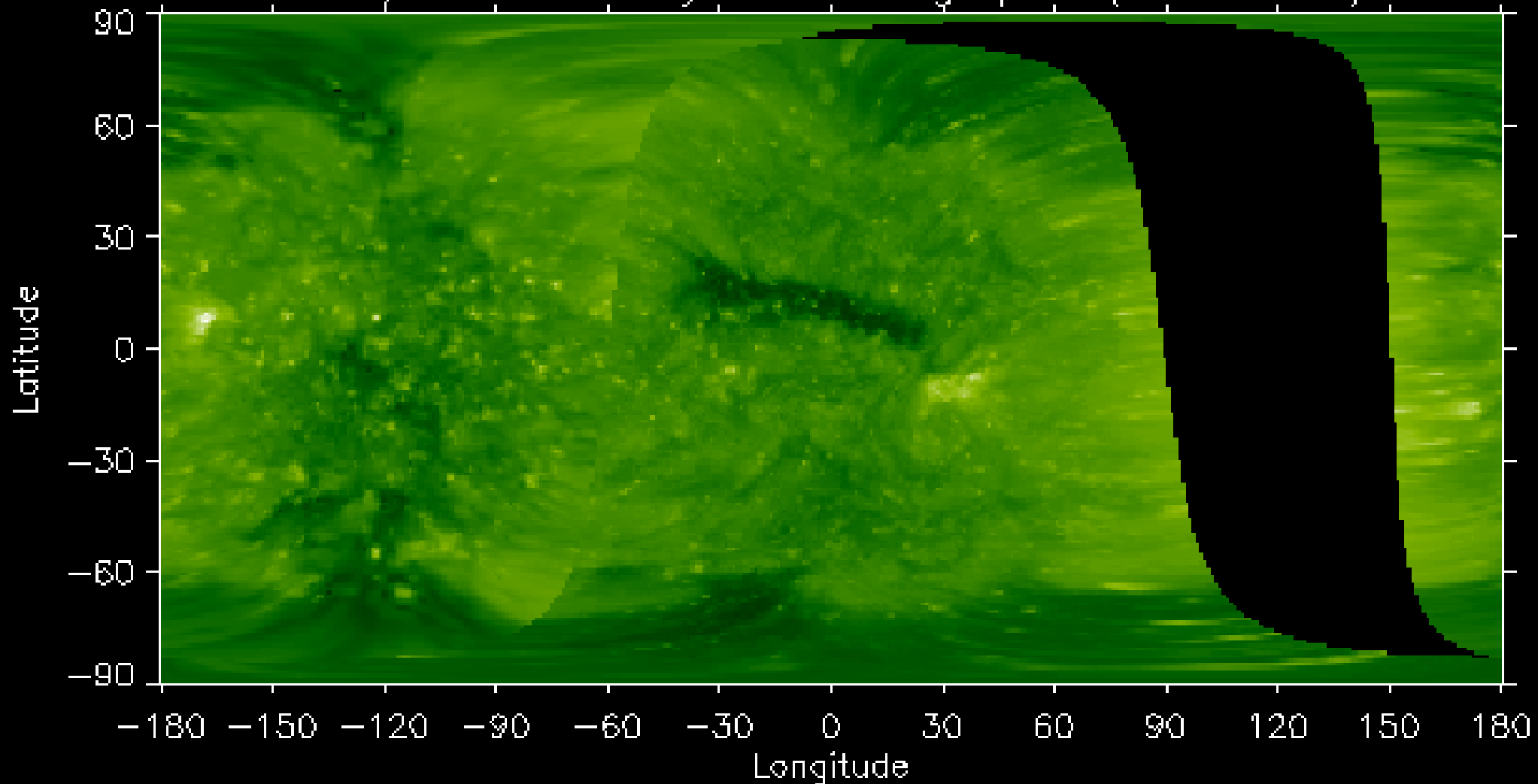
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■ Geomagnetic - K (Chambon-La-Forêt) (quicklook) - 50 data points - (raw - 3 hour data)  
■ Geomagnetic - K (Dourbes) (quicklook) - 112 data points - (raw - 3 hour data)  
■ Geomagnetic - Kp (Potsdam) (quicklook) - 52 data points - (raw - 3 hour data)



# Outlook

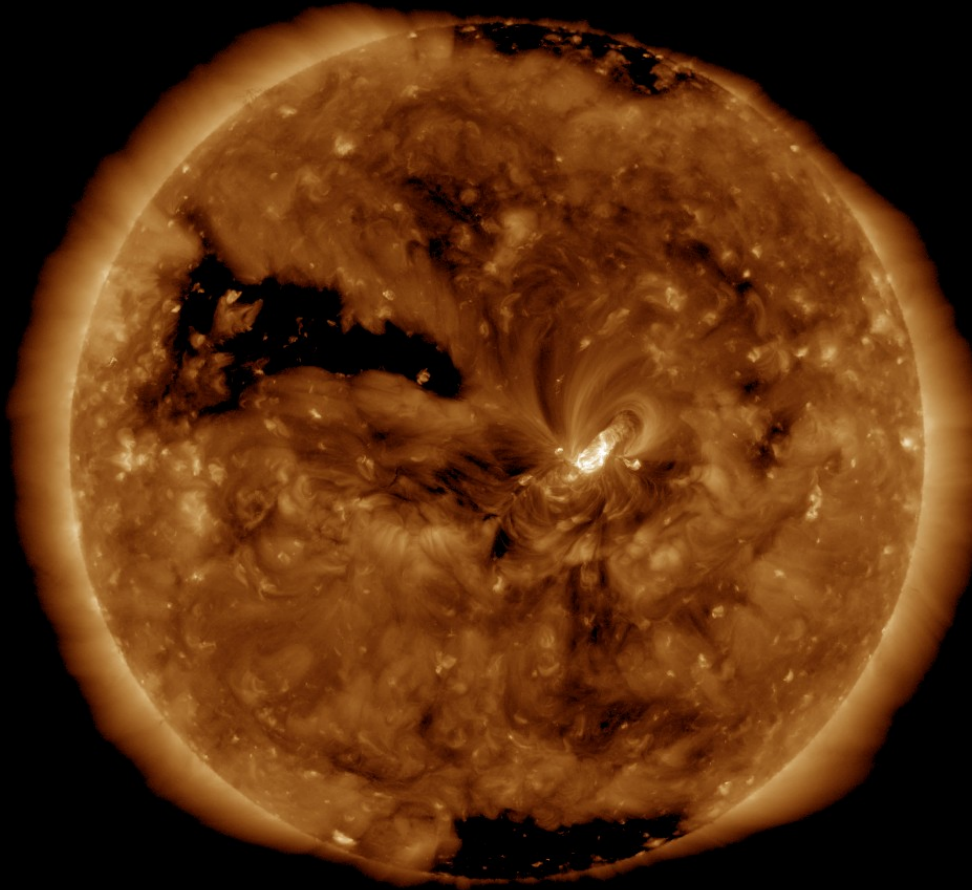
EUVI/AIA 195 Stonyhurst Heliographic (Earth-view)



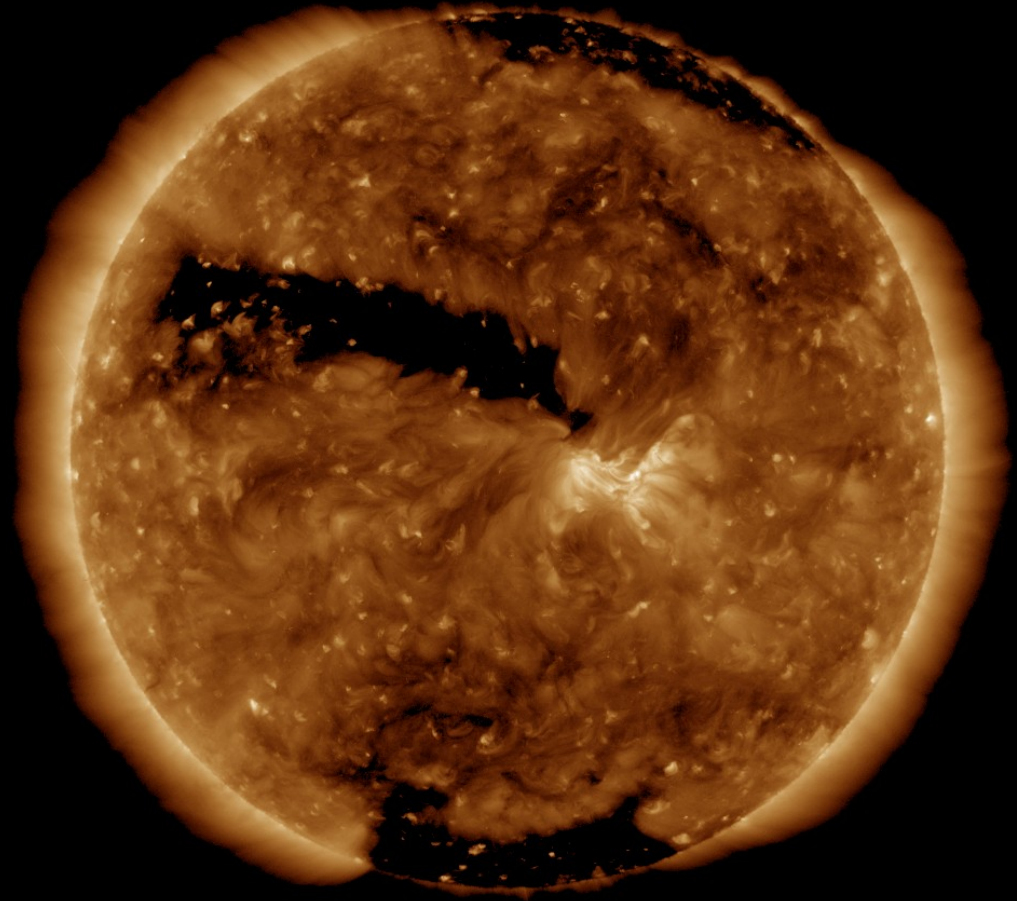
Observation date: 2018/03/12 08:05:30

# 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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