

SIDC Space Weather briefing

19 – 25 February

Cis Verbeeck

&

SIDC forecaster team

Solar Influences
Data analysis Centre
www.sidc.be



Royal Observatory
of Belgium

Summary Report

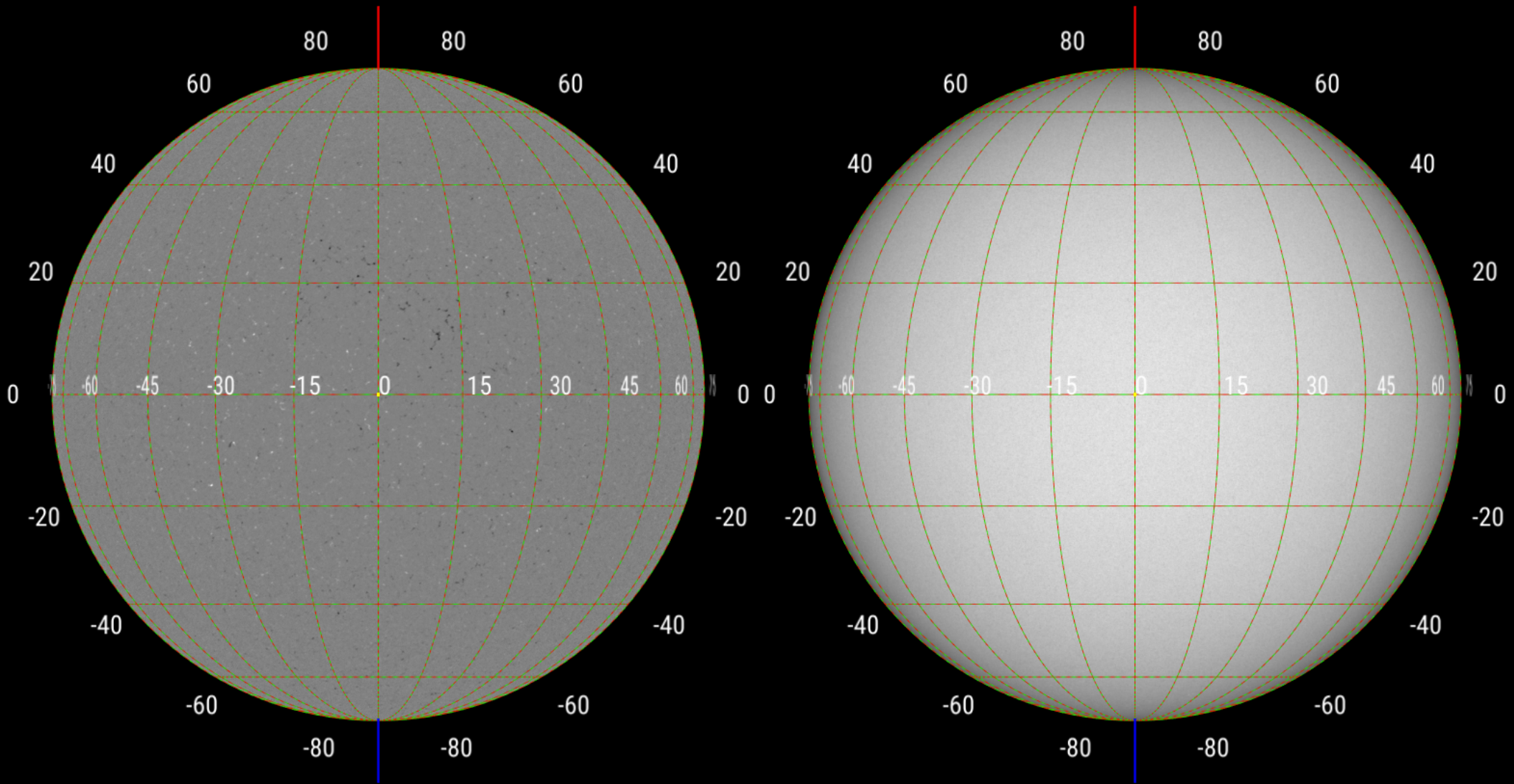
Solar Activity:

Active Regions	None
Flaring	GOES X-Ray flux background near A3, one B1.0 flare
Filaments	No filament eruptions
CMEs	No Earth-directed CMEs
Proton Event	Background level

Solar wind and Geomagnetic conditions:

SW conditions	Occasionally enhanced solar wind (up to ~550 km/s)
ICME	None
Max K index	NOAA Kp=5 and K Dourbes=4
Coronal Hole	- South polar CH and extensions

Solar active region evolution

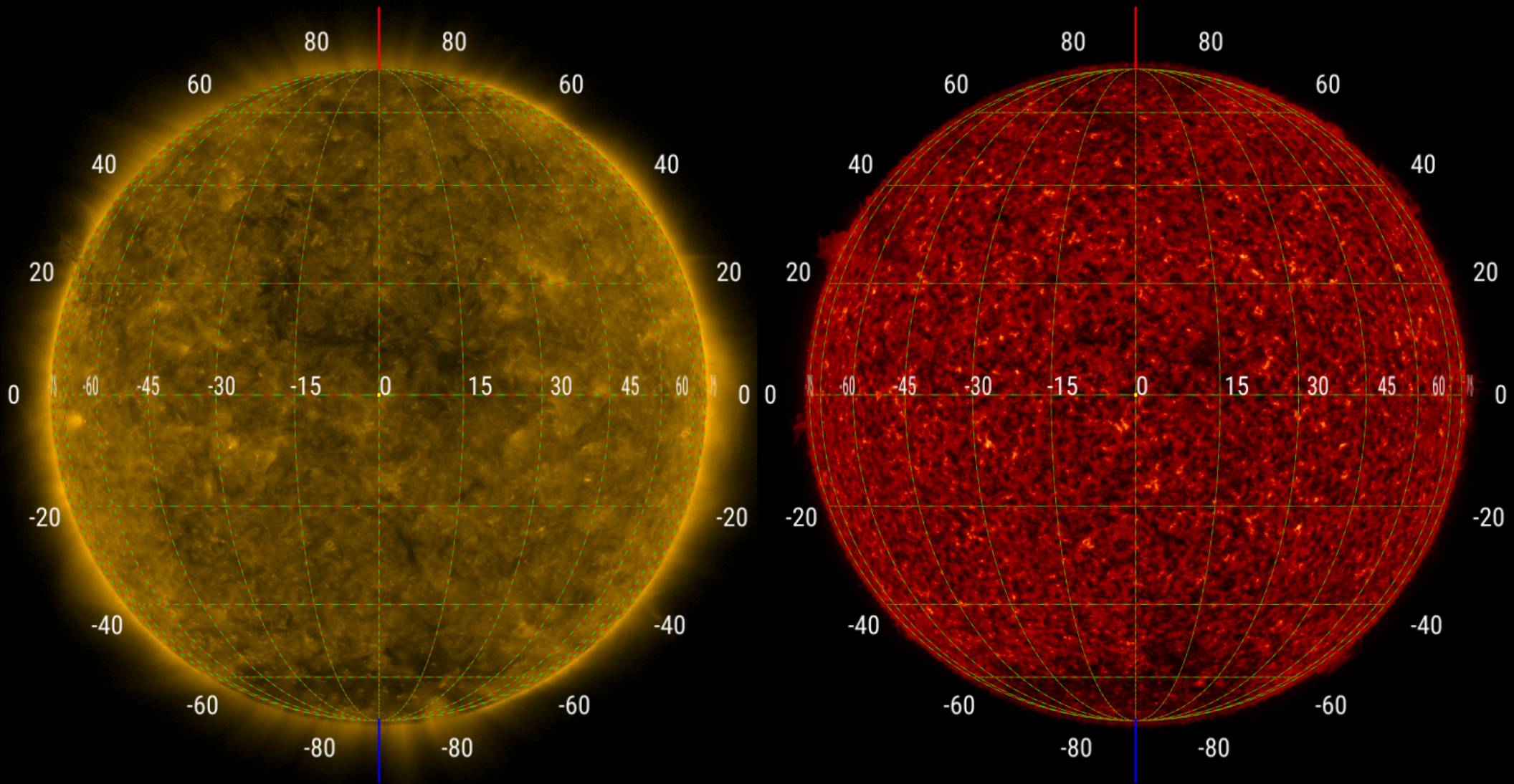


2018-02-24T08:09:25 HMI magnetogram

2018-02-24T08:38:40 HMI continuum

[movie](#)

Solar active region evolution



2018-02-24T08:19:57 AIA 171

2018-02-24T08:20:05 AIA 304

[movie](#)

Evolution of Flare probability

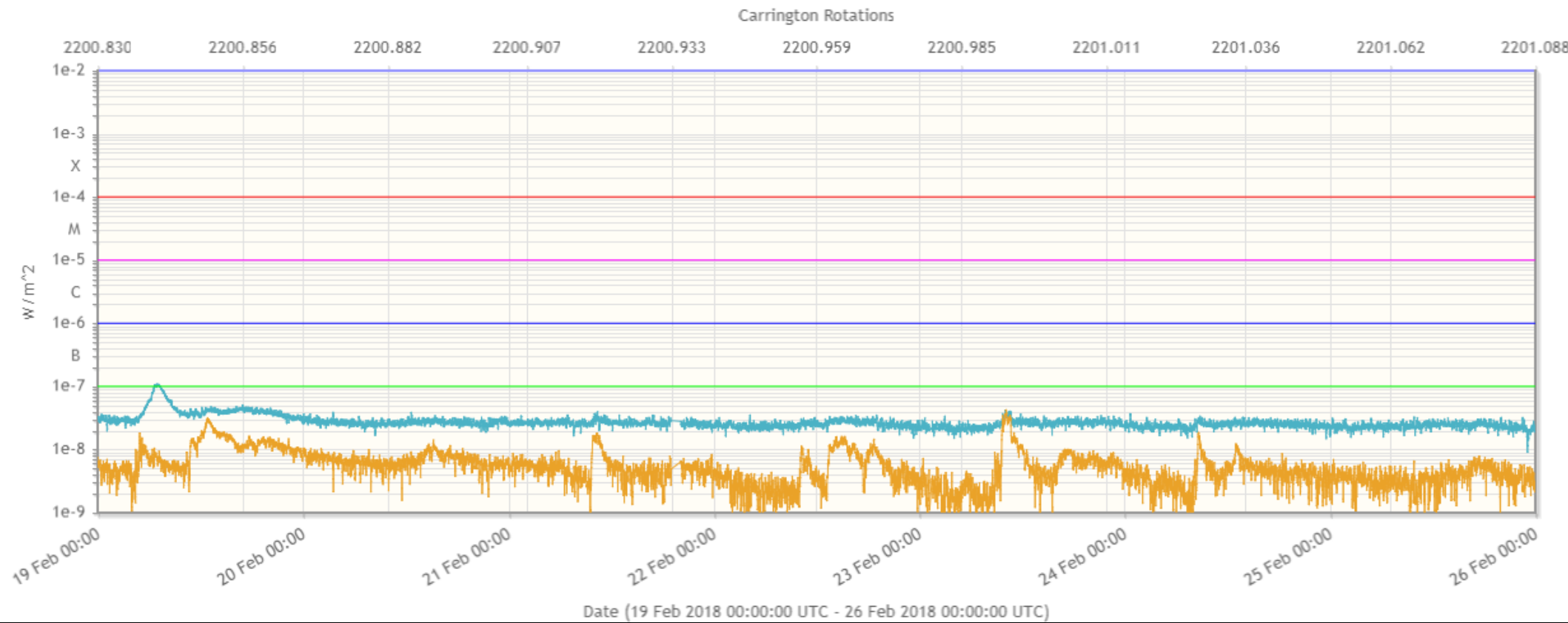
Probability of full disk flare occurrence over 24h

Issue time	P(C)	P(M)	P(X)
2018-02-12T12:30	0.05	0.01	0.01
2018-02-13T12:30	0.05	0.01	0.01
2018-02-14T12:30	0.05	0.01	0.01
2018-02-15T12:30	0.05	0.01	0.01
2018-02-16T12:30	0.05	0.01	0.01
2018-02-17T12:30	0.05	0.01	0.01
2018-02-18T12:30	0.05	0.01	0.01

Solar X-ray flux and flaring

www.staff.oma.be

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



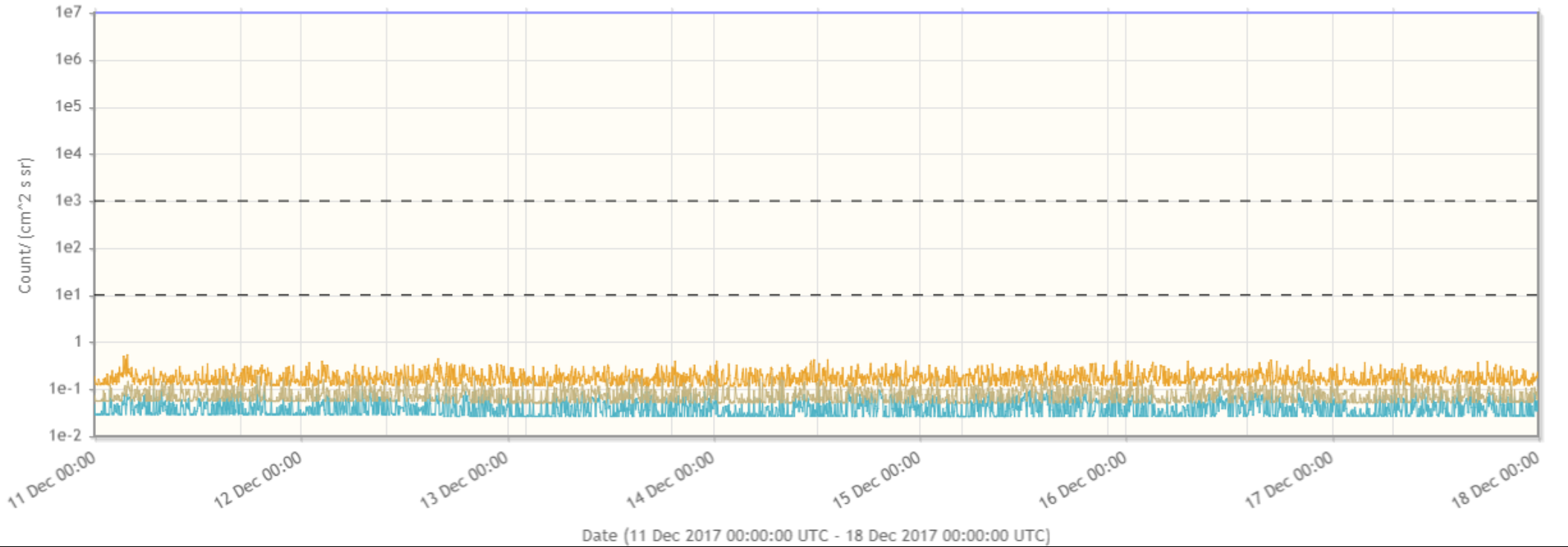
Energetic particles

www.staff.oma.be

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

Carrington Rotations

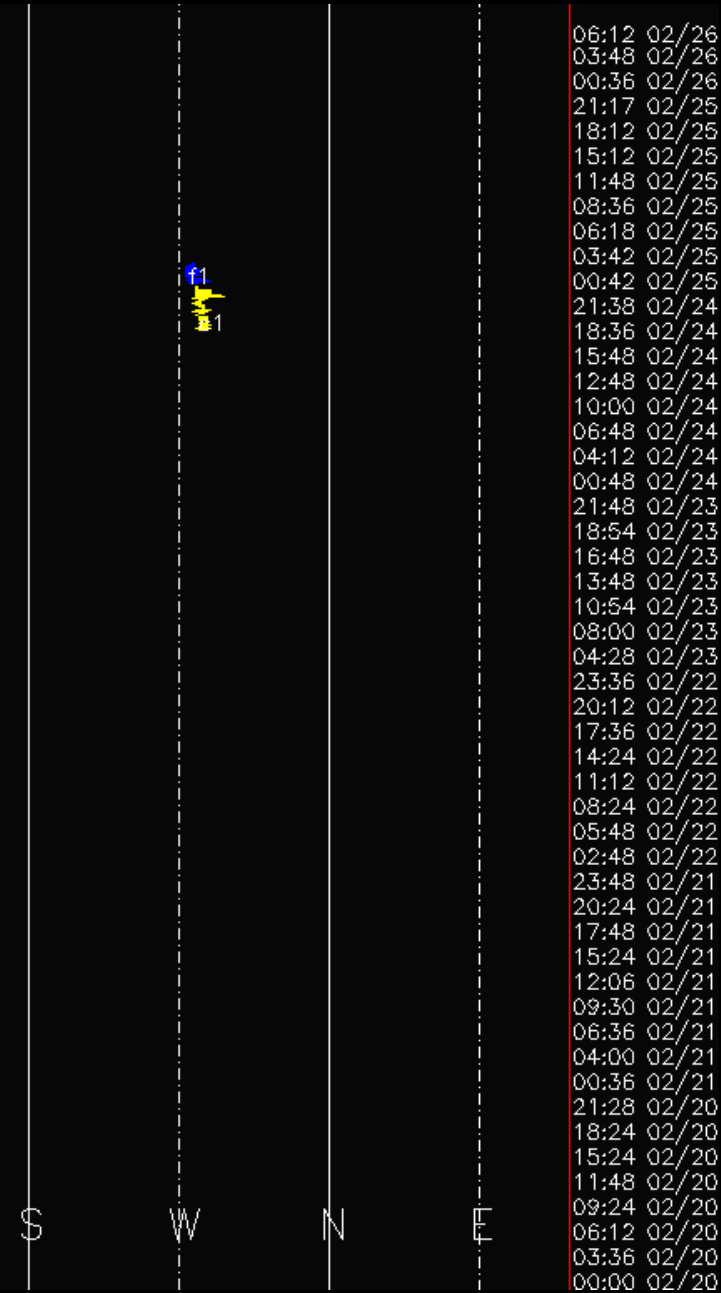
2198.264 2198.290 2198.316 2198.341 2198.367 2198.393 2198.419 2198.445 2198.470 2198.496 2198.522



CMEs

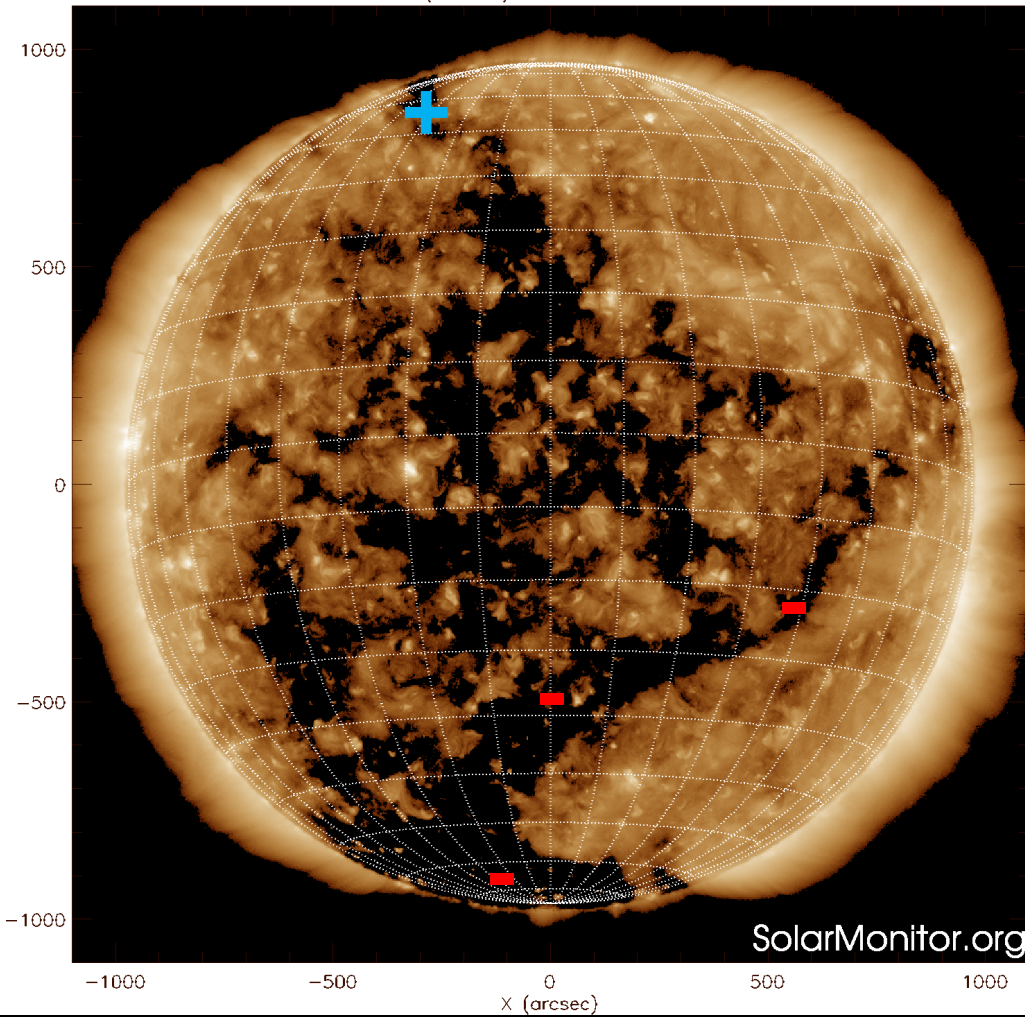
CACTus, <http://www.sidc.oma.be/cactus/>

- No Earth-directed CMEs

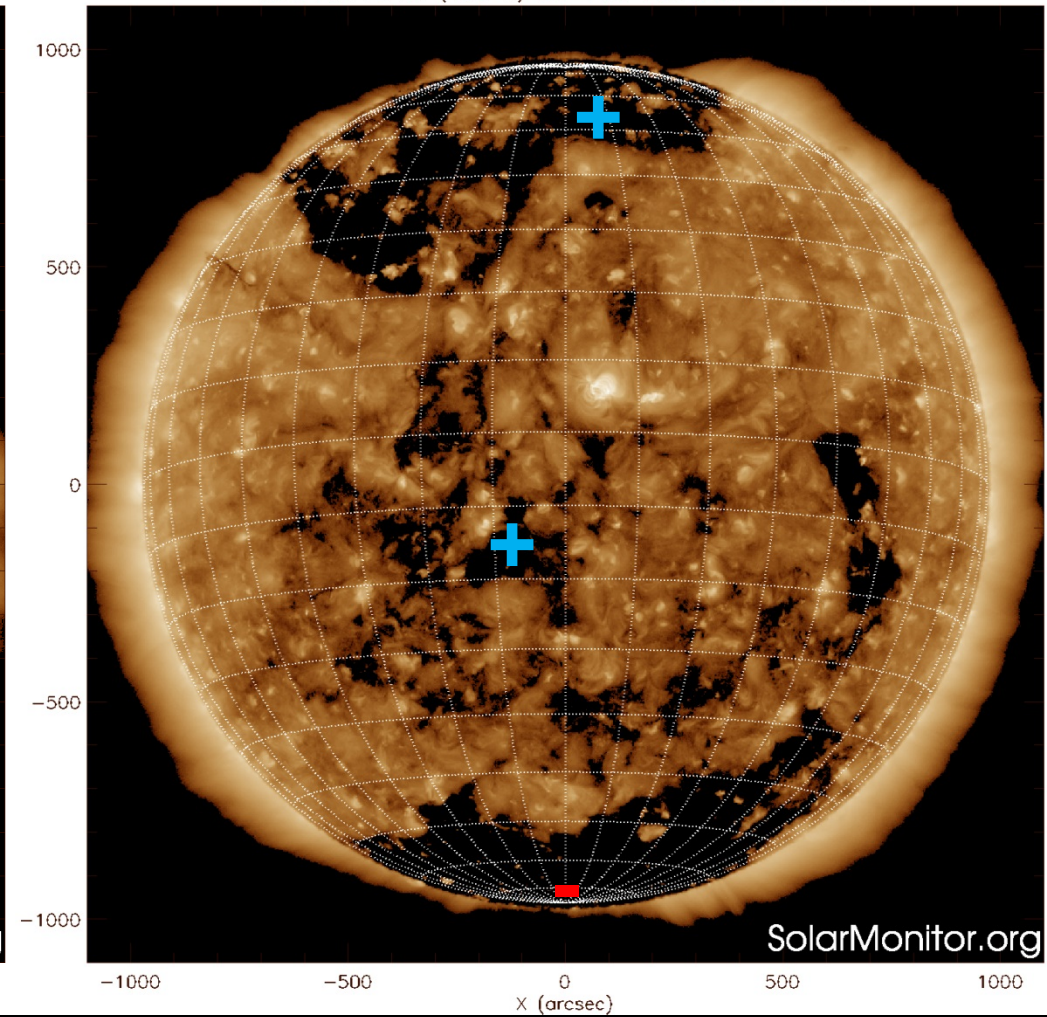


Coronal holes

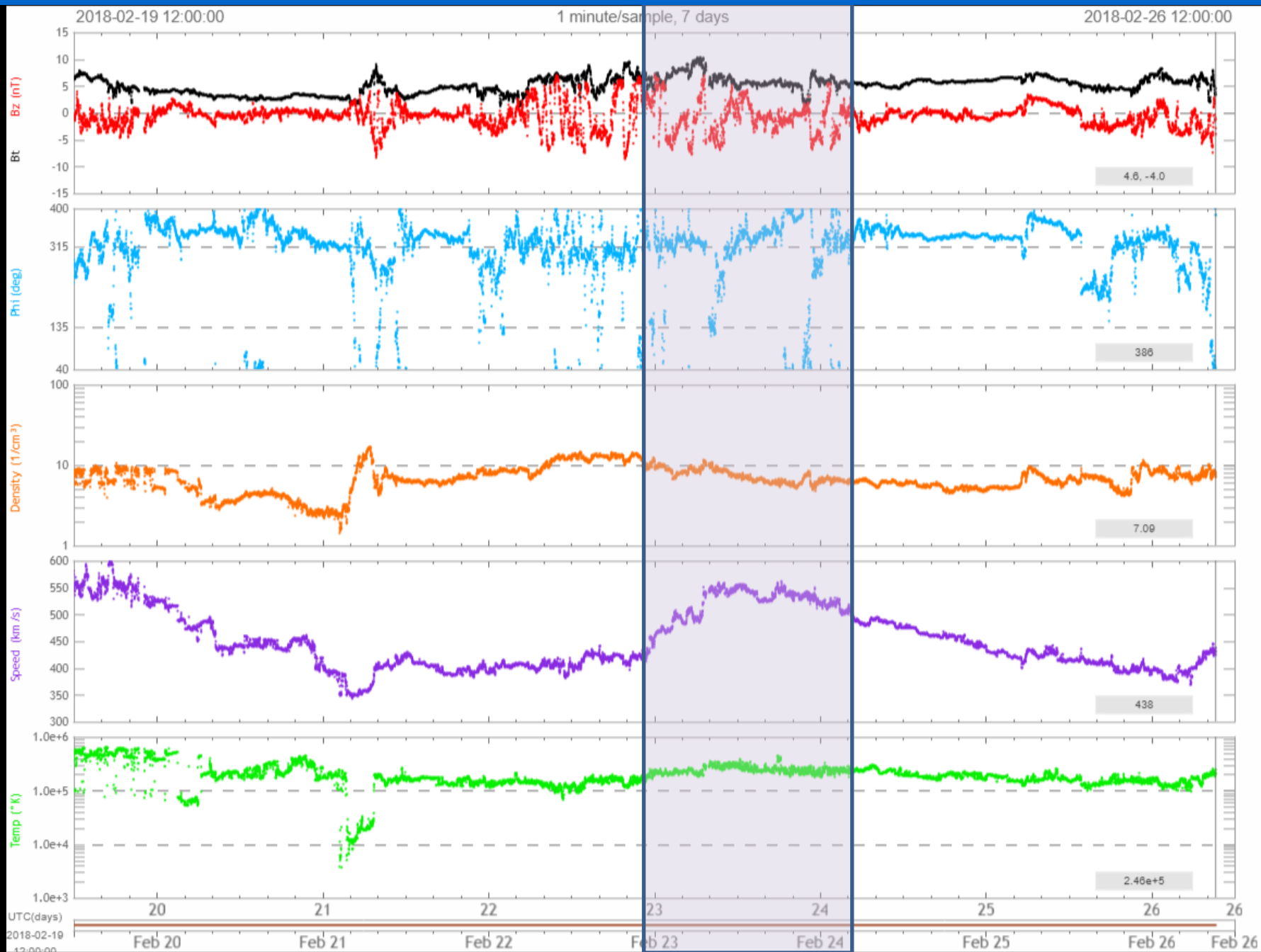
SDO AIA Fe XII (193 Å) 19-Feb-2018 20:24:40.840



SDO AIA Fe XII (193 Å) 26-Feb-2018 08:27:52.850



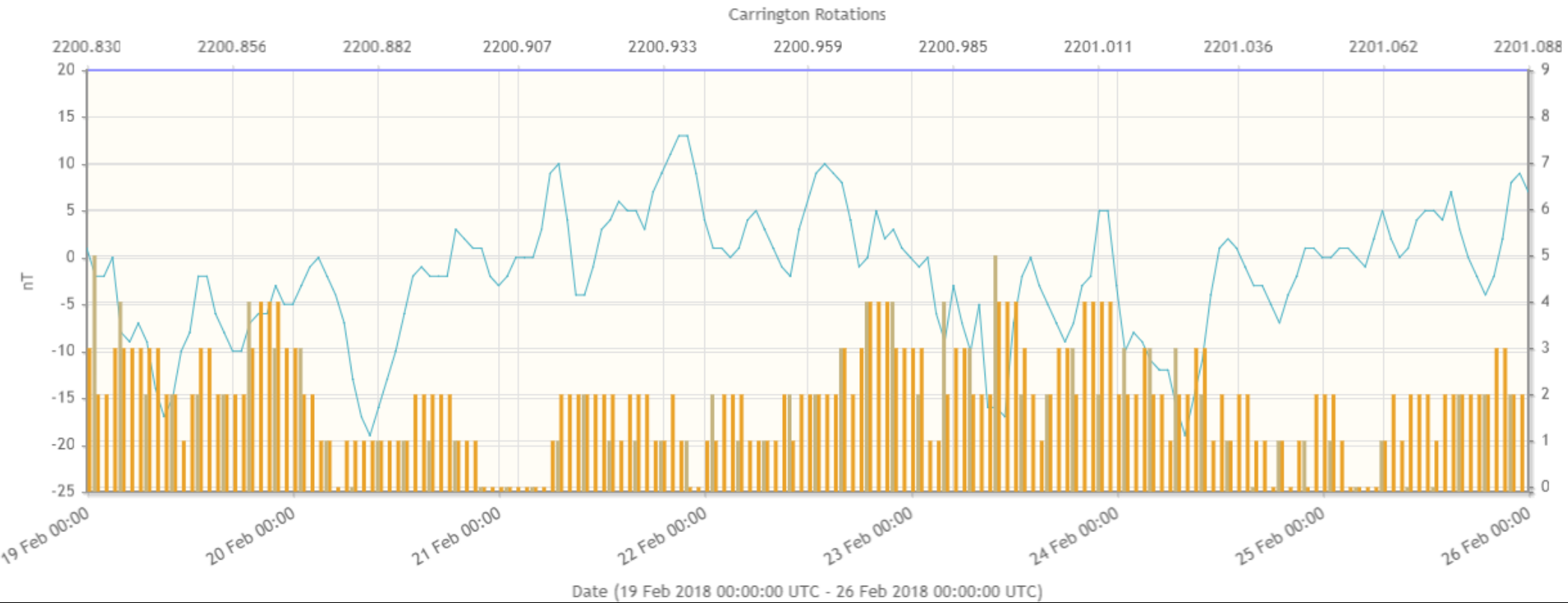
Solar wind



Geomagnetism

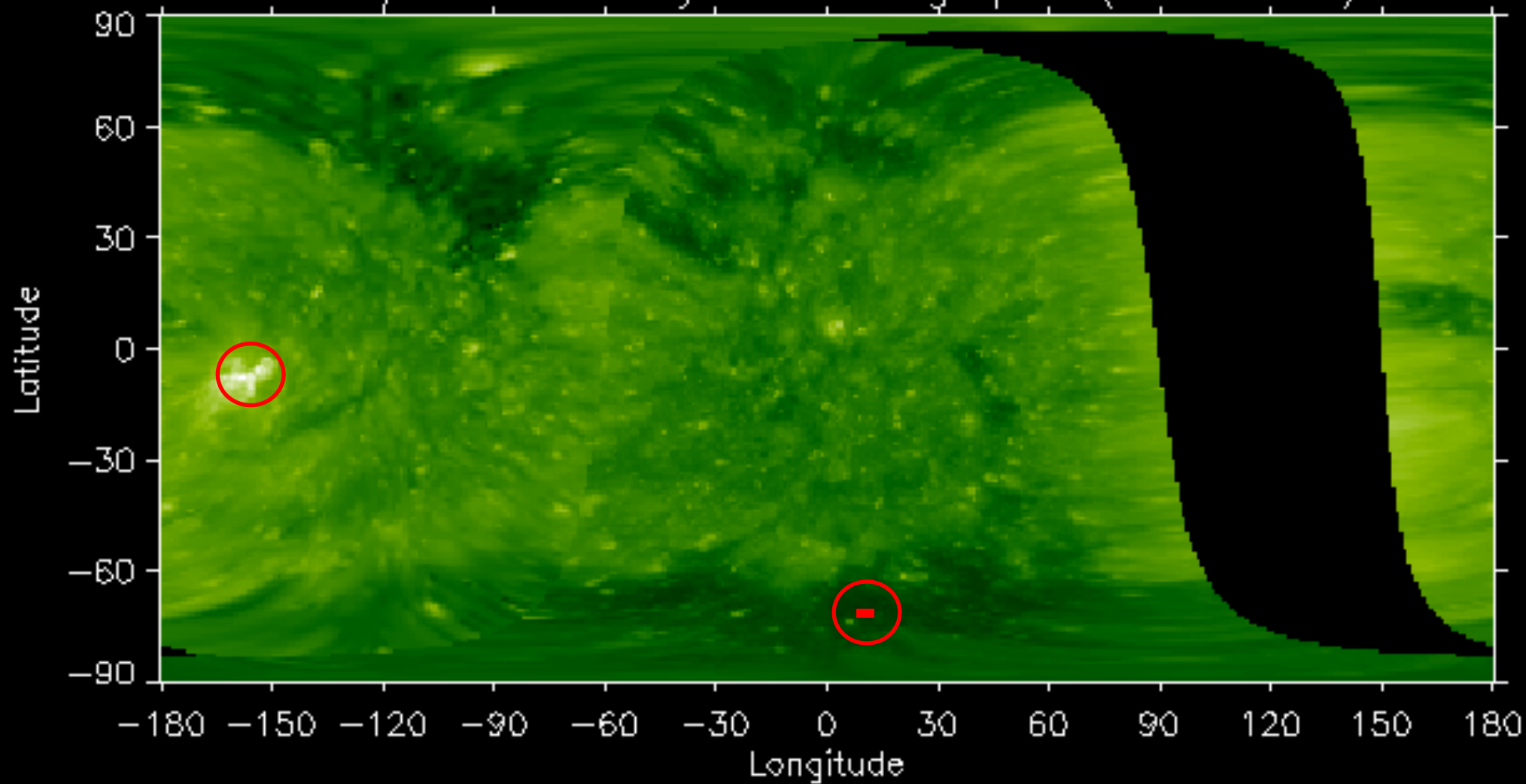
www.staff.oma.be

- Geomagnetic - Dst (quicklook) - (raw - hourly data)
- Geomagnetic - K (Dourbes) (quicklook) - (raw - hourly data)
- Geomagnetic - Kp (NOAA) (quicklook) - (raw - 3 hour data)



Outlook

EUVI/AIA 195 Stonyhurst Heliographic (Earth-view)



Observation date: 2018/02/26 04:35:30

SIDC Space Weather briefing

See you at our next briefing!

Or visit us at www.sidc.be

Solar Influences
Data analysis Centre
www.sidc.be



Royal Observatory
of Belgium