

SIDC Space Weather Briefing

24 February 2019 - 03 March 2019

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& the SIDC forecaster team



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Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2019-02-24 12:00 UT to 2019-03-03 12:00 UT

Active regions	None
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	None
CMEs	Two small West limb CMEs
Proton Events	Background Level

Solar wind and geomagnetic conditions from 2019-02-24 12:00 UT to 2019-03-03 12:00 UT

Coronal Holes	1 extended equatorial CH
ICME	None
SW Conditions	CIR with Fast solar wind (~600 km/s)
K-indices	max K-index (Dourbes): 5.0 max Kp-index (NOAA): 5

All Quiet Alert: All quiet until February 27

Solar Activity

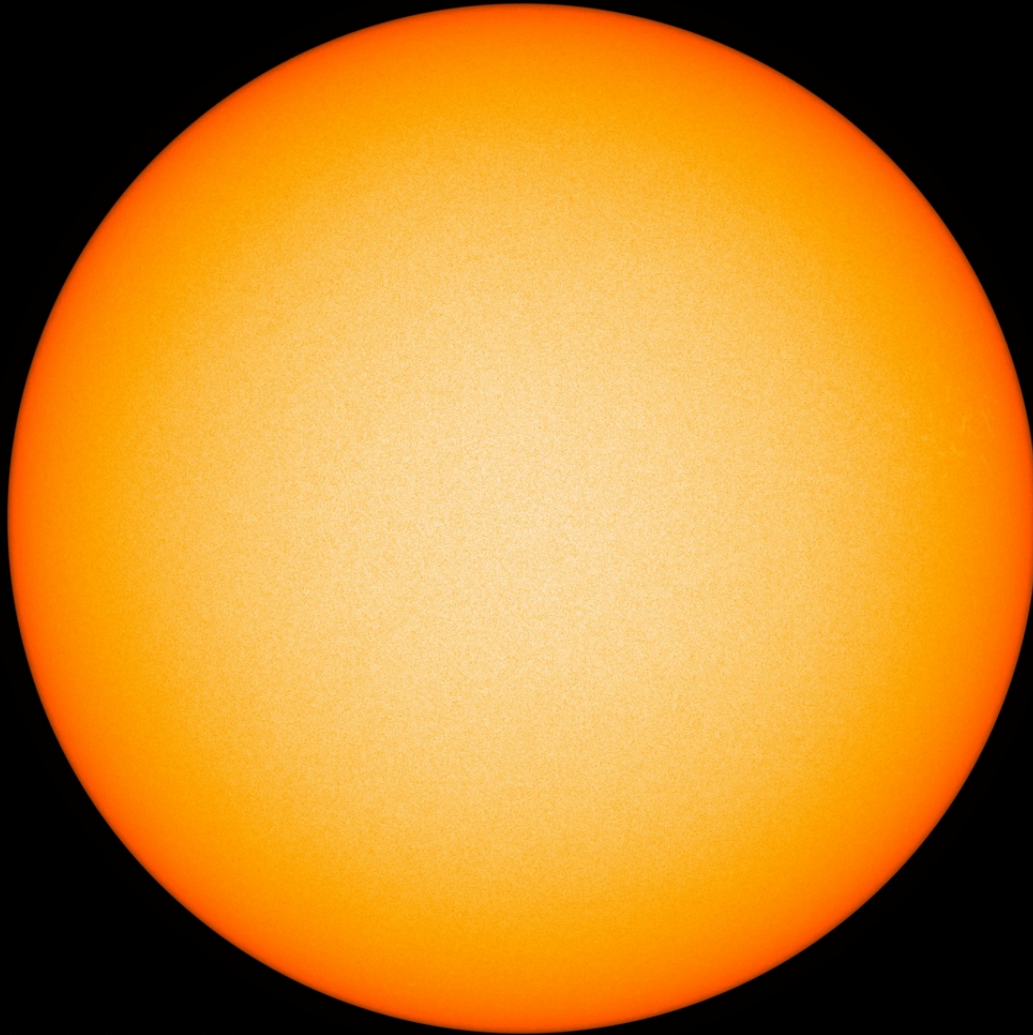


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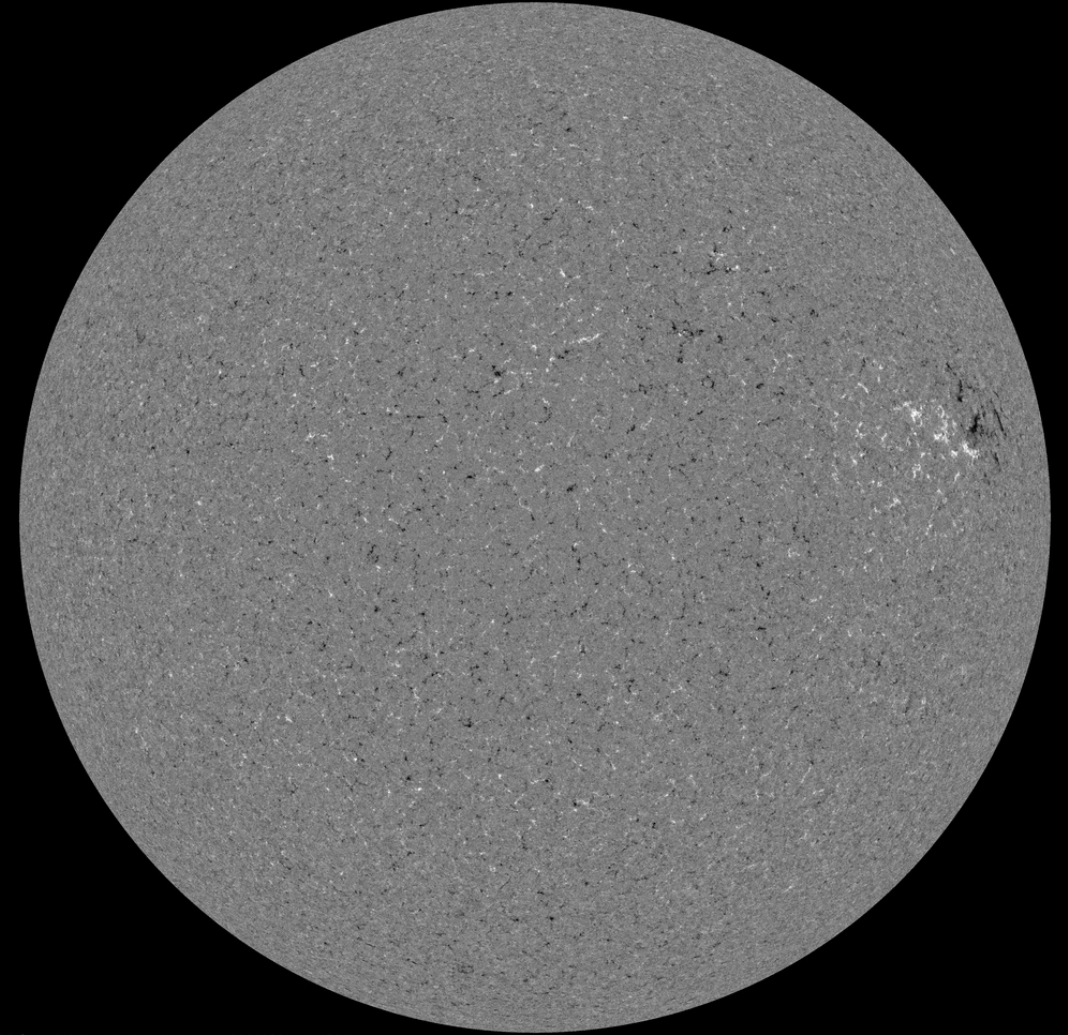
Solar active region - start of the week

SDO/HMI White Light 2019-02-24



SDO/HMI Quick-Look Continuum: 20190224_114500

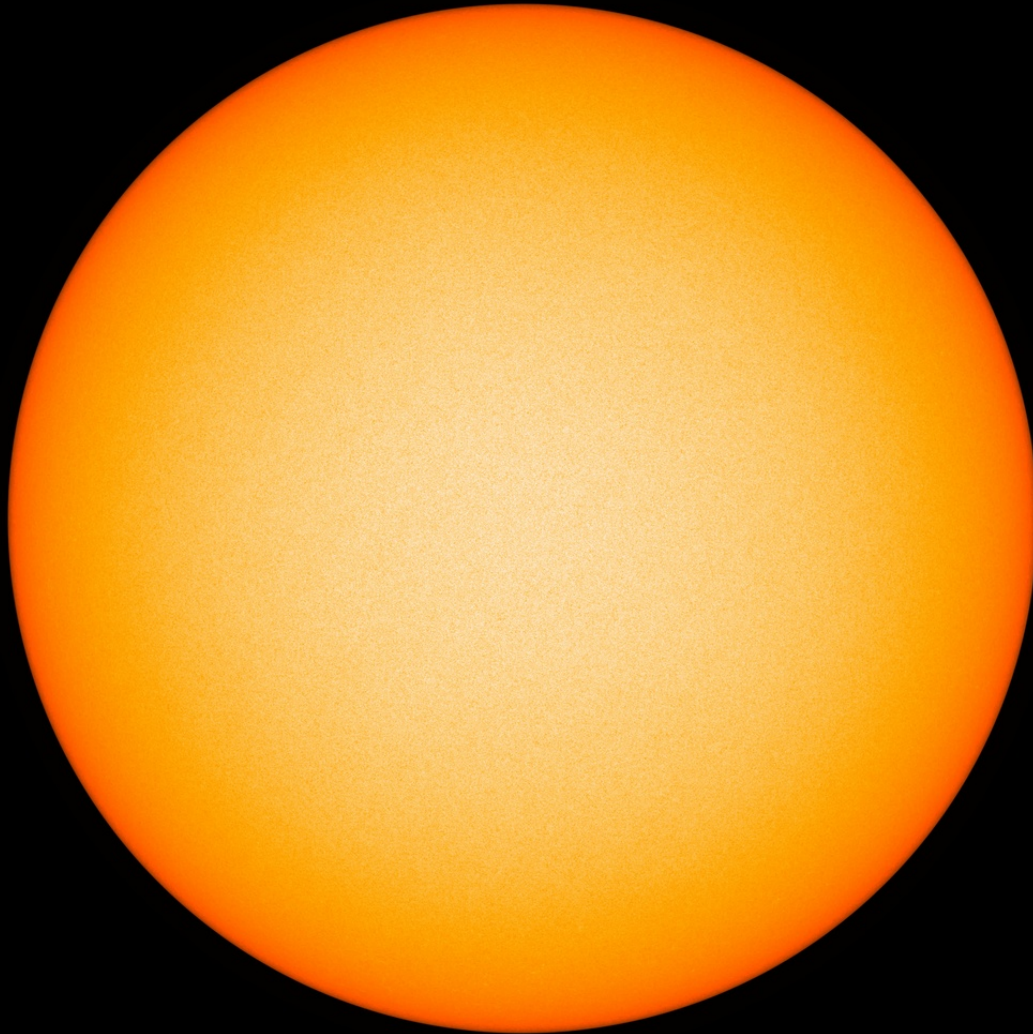
SDO/HMI Magnetogram 2019-02-24



SDO/HMI Quick-Look Magnetogram: 20190224_114500

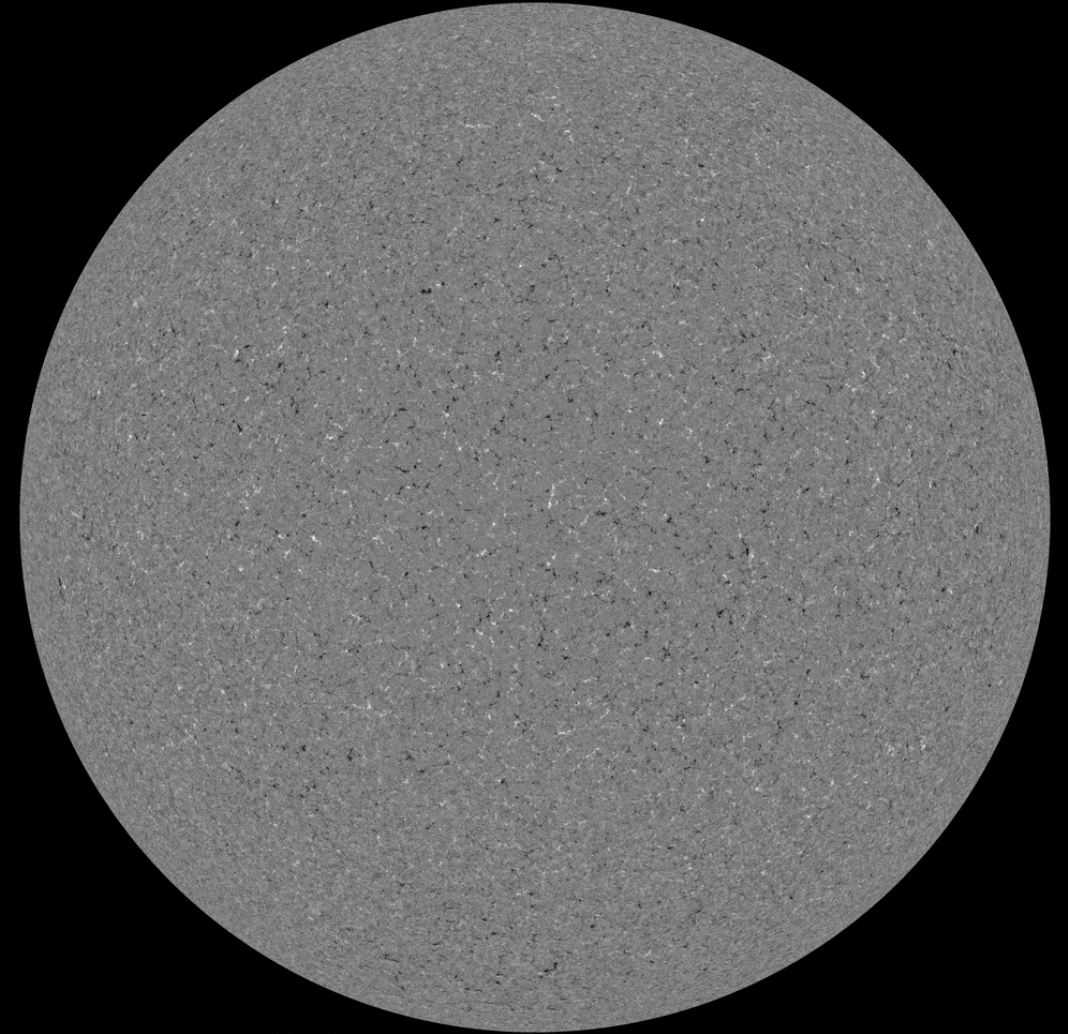
Solar active region - middle of the week

SDO/HMI White Light 2019-02-27



SDO/HMI Quick-Look Continuum: 20190227_114500

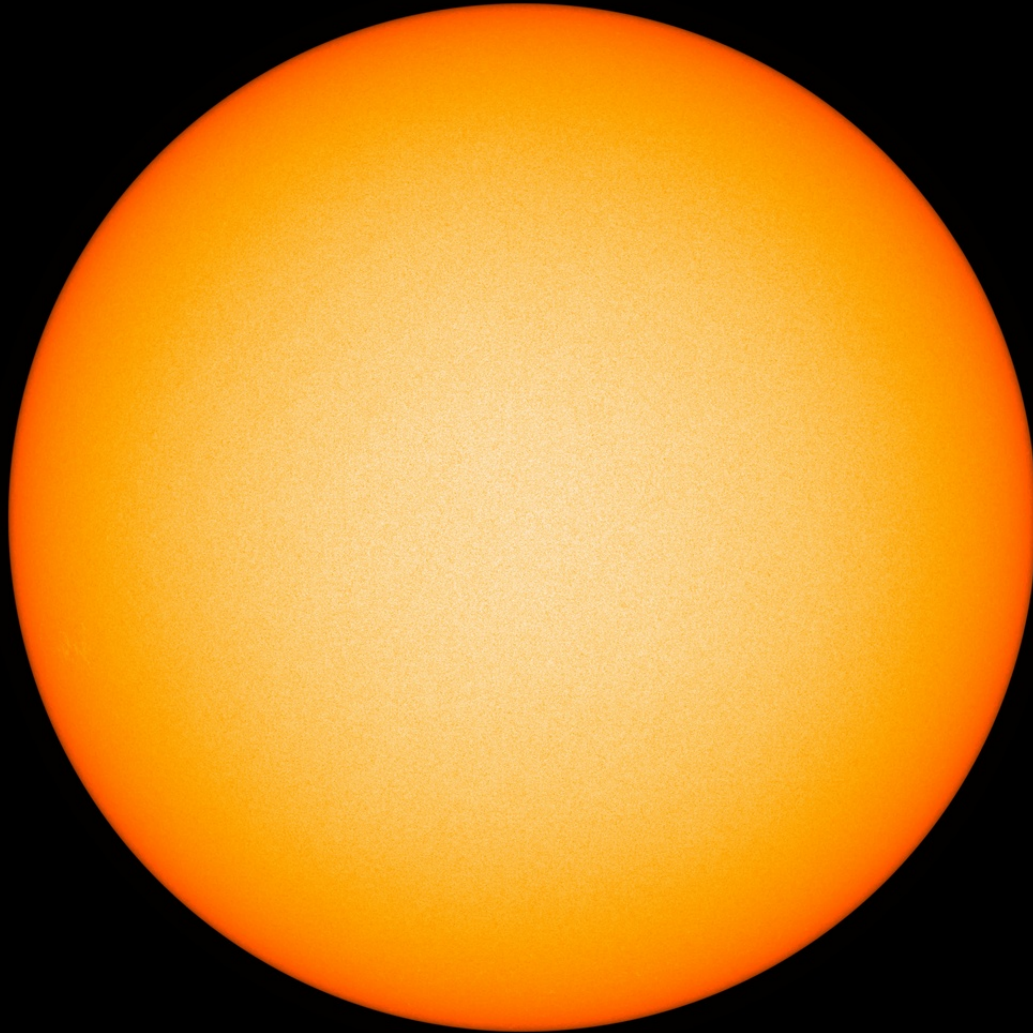
SDO/HMI Magnetogram 2019-02-27



SDO/HMI Quick-Look Magnetogram: 20190227_114500

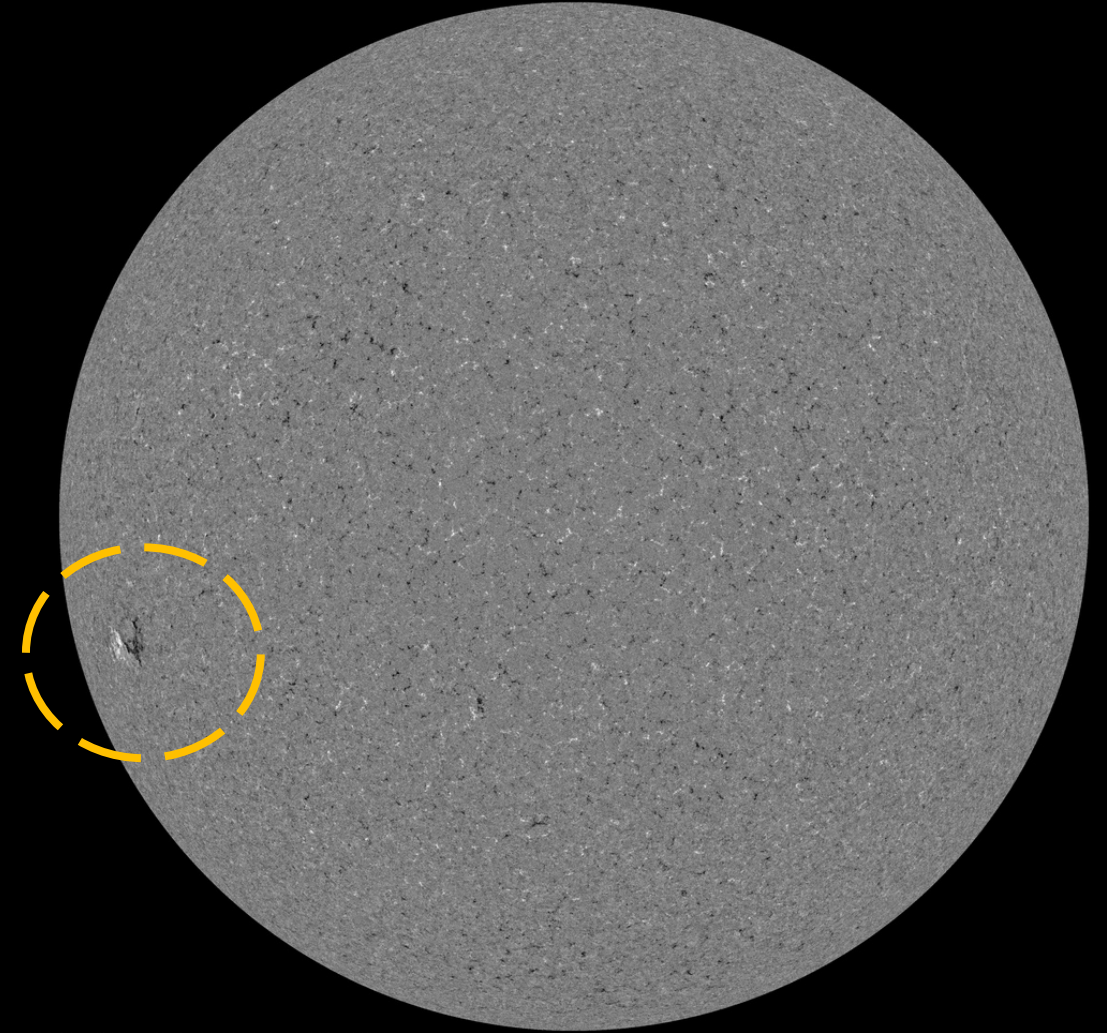
Solar active region - end of the week

SDO/HMI White Light 2019-03-03



SDO/HMI Quick-Look Continuum: 20190303_114500

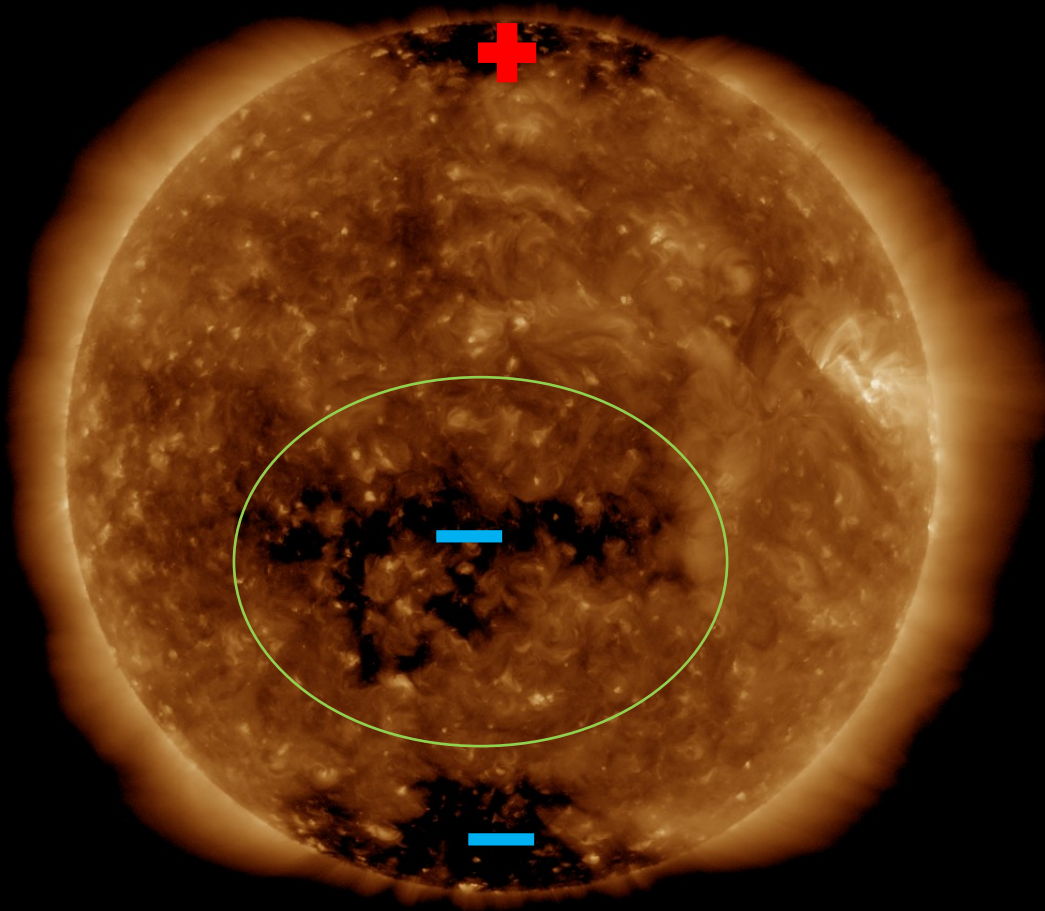
SDO/HMI Magnetogram 2019-03-03



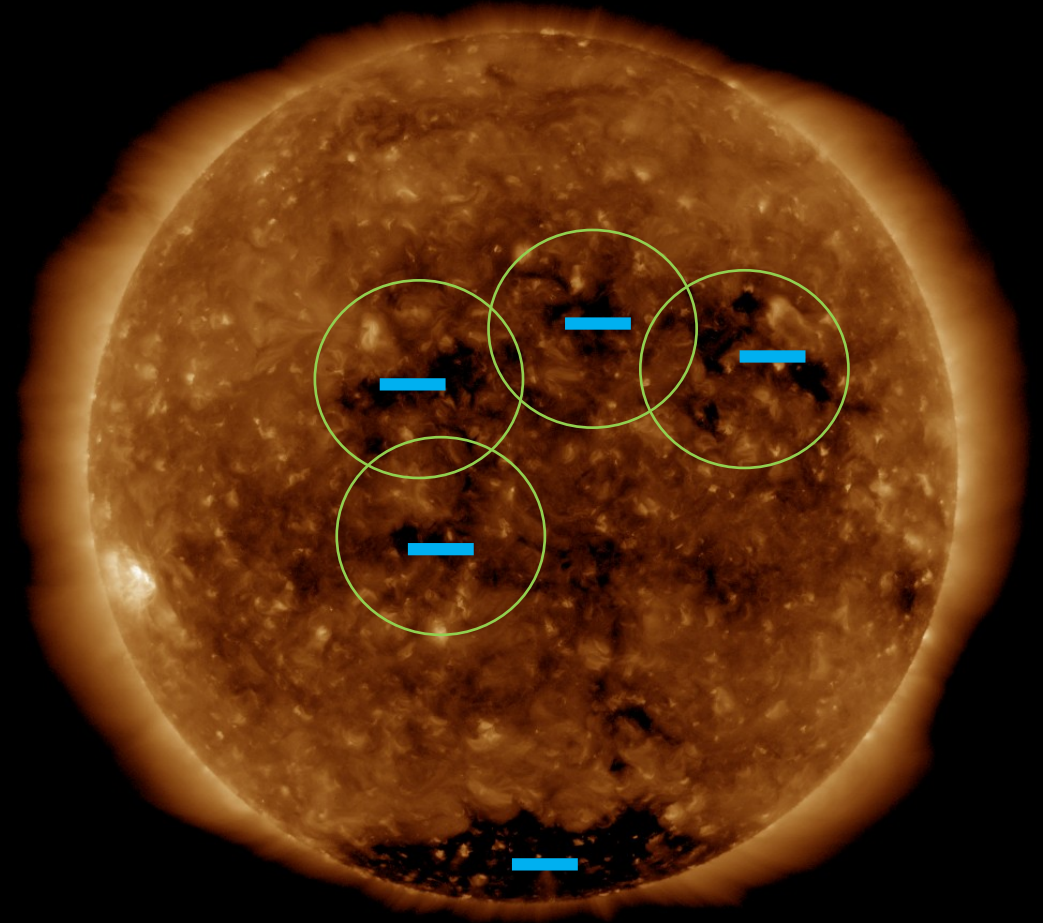
SDO/HMI Quick-Look Magnetogram: 20190303_114500

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2019-02-24



SDO/AIA 19.3 nm 2019-03-03



SDO/AIA 193 2019-02-24 12:10:29 UT

SDO/AIA 193 2019-03-03 12:10:29 UT

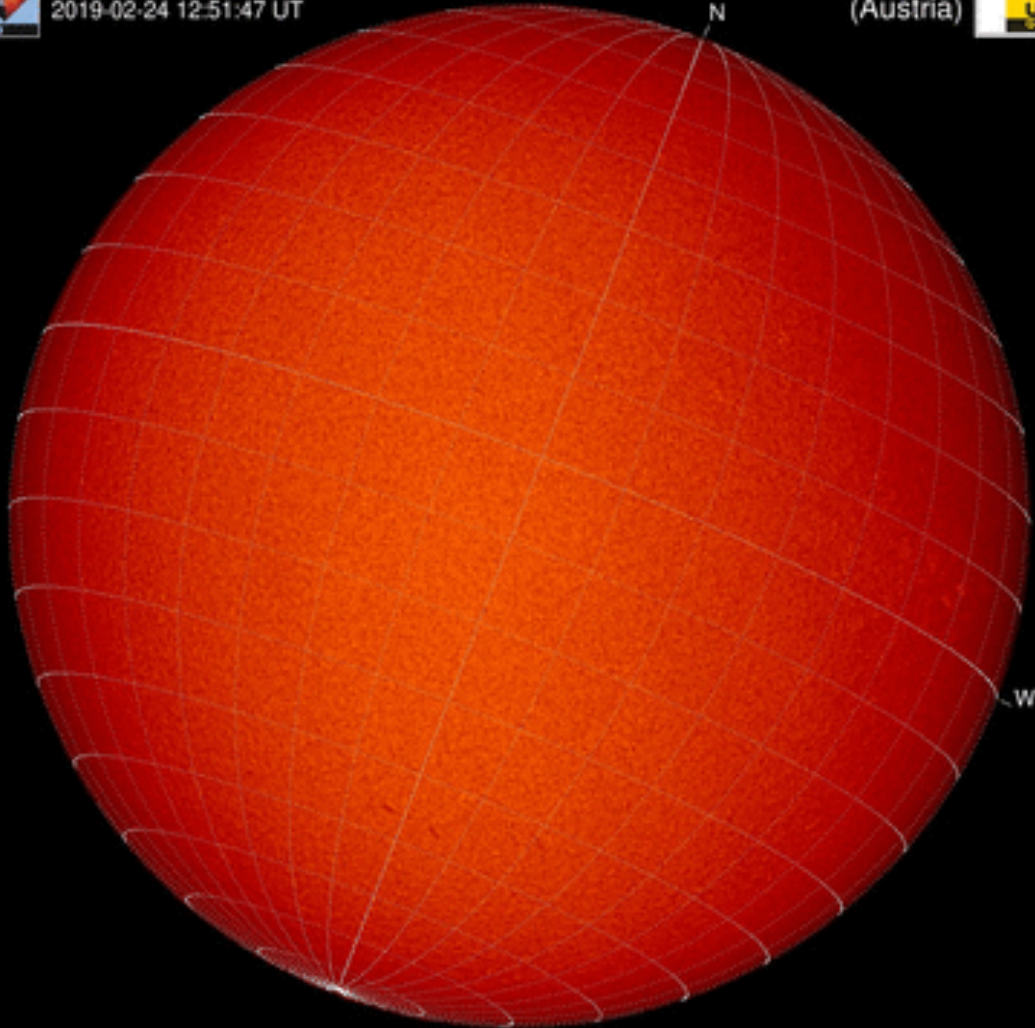
Filament & Filament eruption

H-alpha 2019-02-24



Kanzelhöhe Observatory
2019-02-24 12:51:47 UT

University of Graz
(Austria)

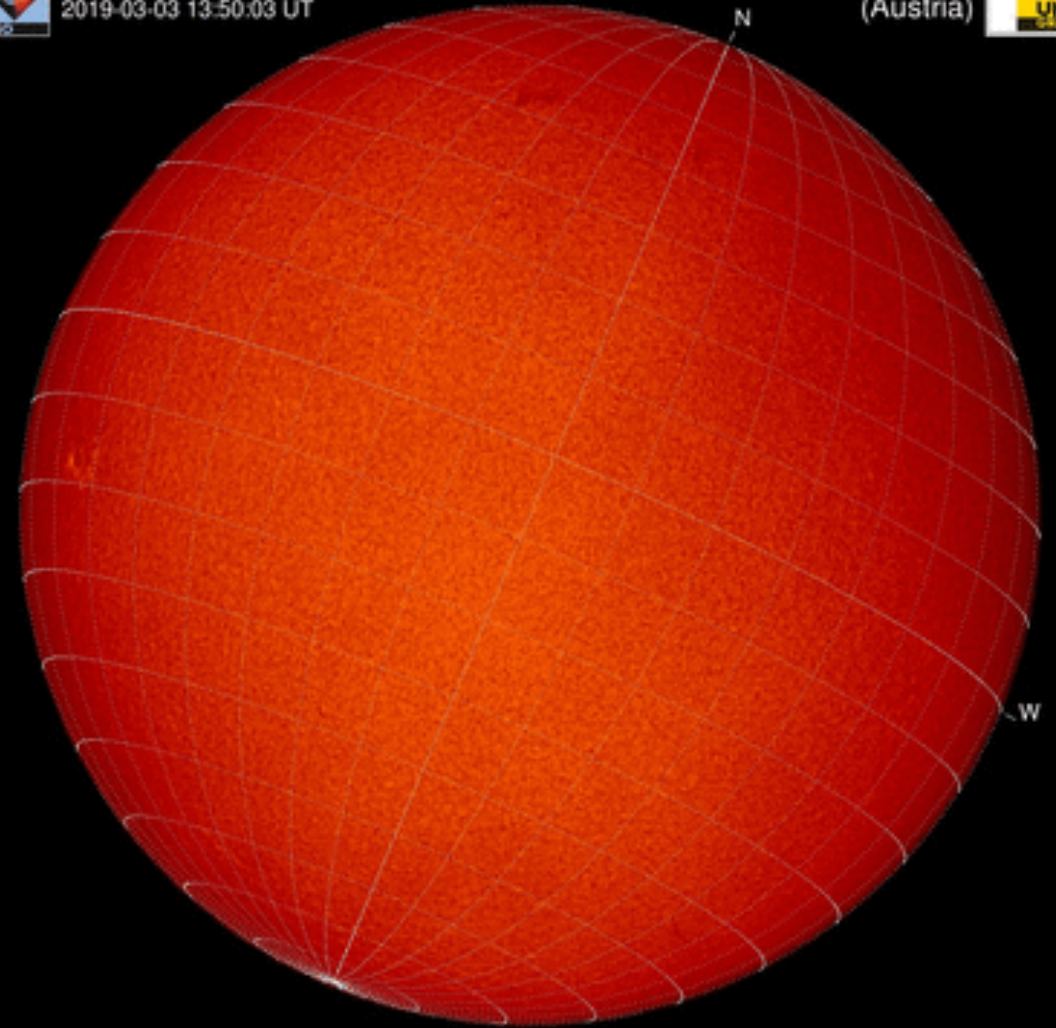


H-alpha 2019-03-03

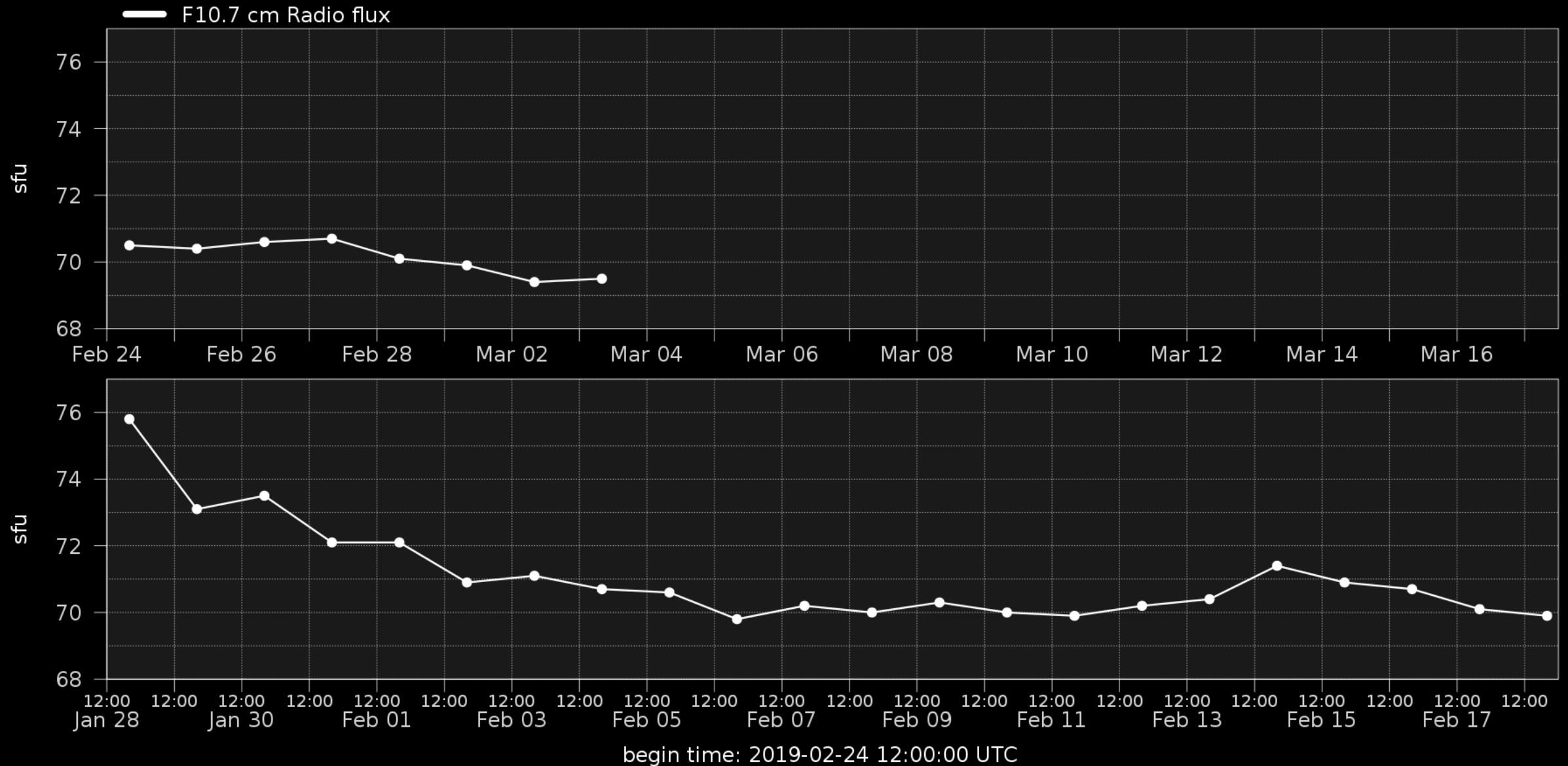


Kanzelhöhe Observatory
2019-03-03 13:50:03 UT

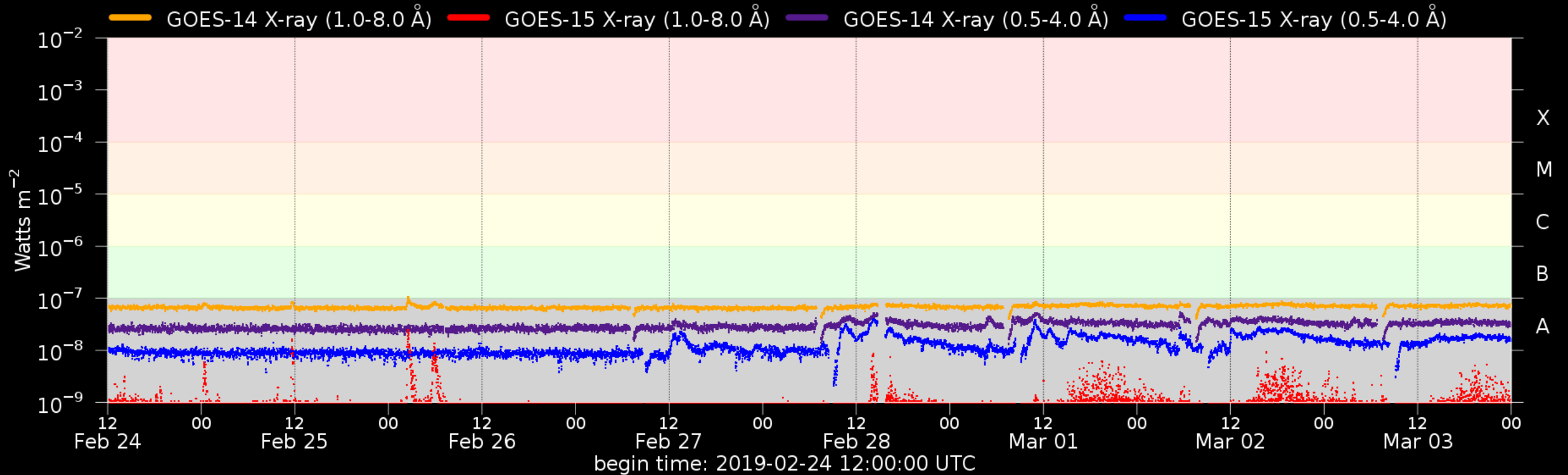
University of Graz
(Austria)



Solar F10.7cm radio flux



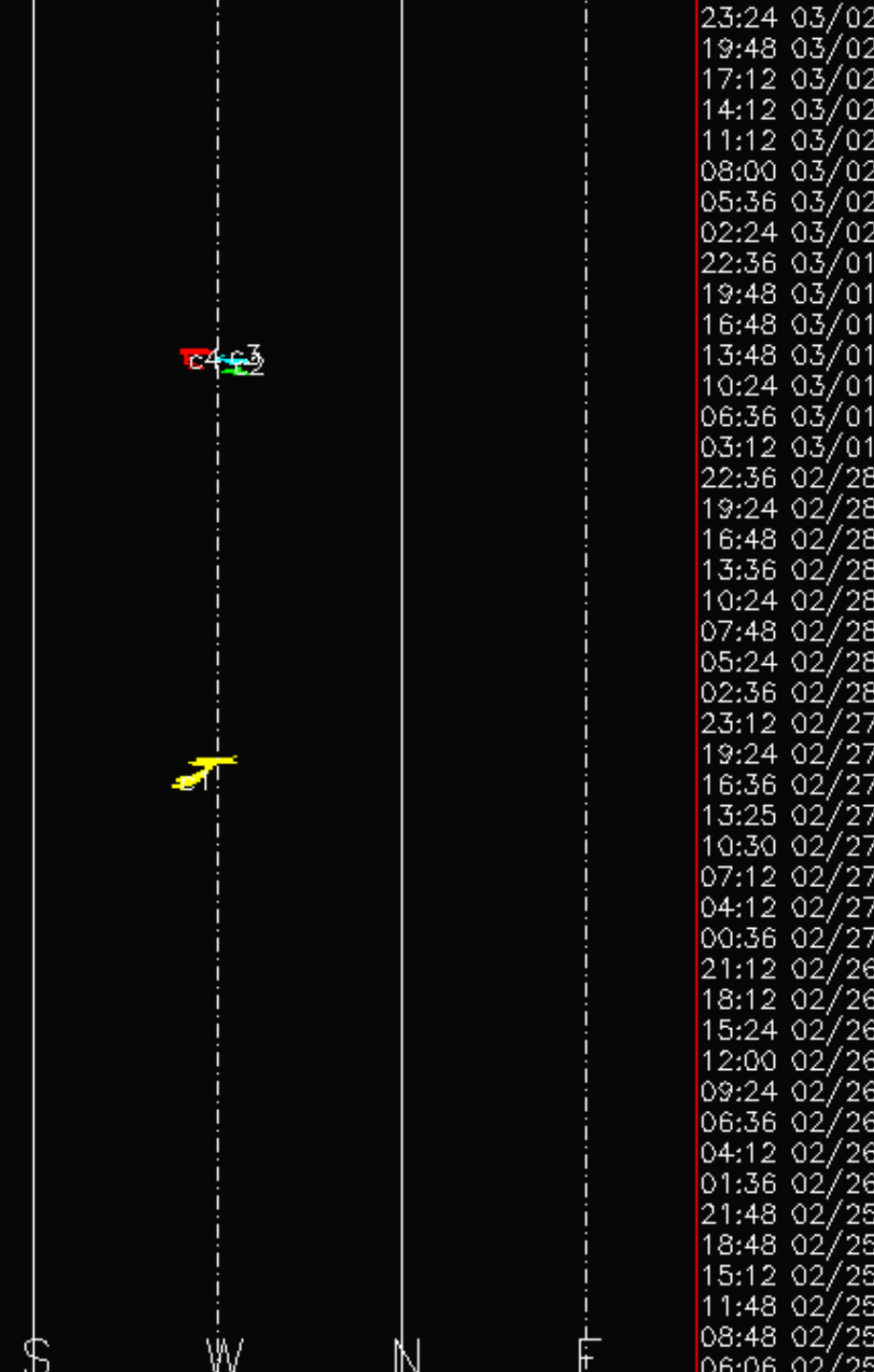
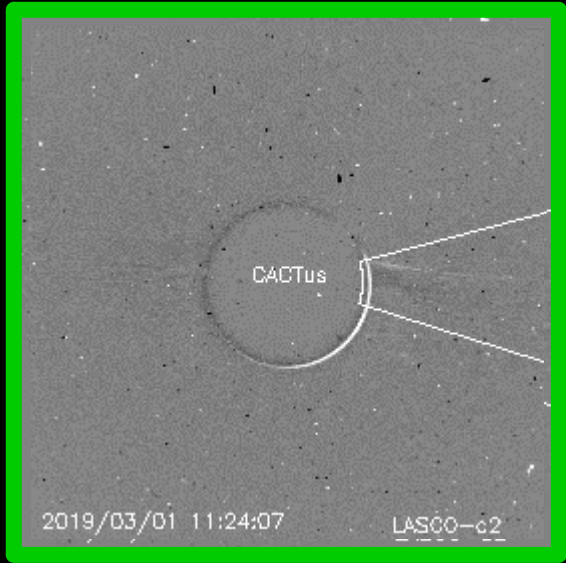
Flaring activity



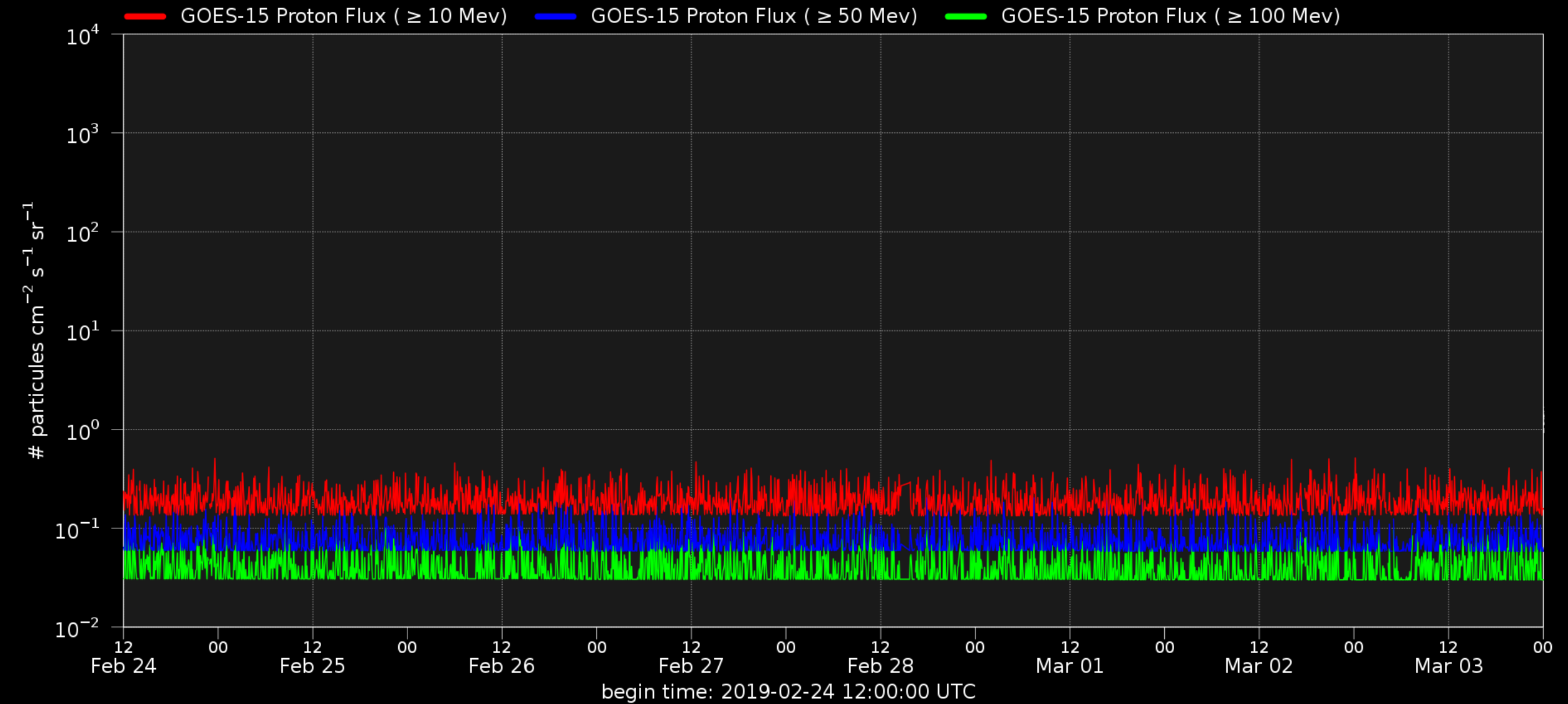
Probabilities (%) and occurrences (#) of B/C/M/X-flares issued at 12:30 and over the next 24h:

Issue date	2019-02-24	2019-02-25	2019-02-26	2019-02-27	2019-02-28	2019-03-01	2019-03-02	2019-03-03
Probability	--- 01 01 01	--- 05 01 01	--- 05 01 01	--- 05 01 01	--- 05 01 01	--- 05 01 01	--- 05 01 01	--- 05 01 01
Observed	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00

Coronal Mass Ejection



Solar proton flux



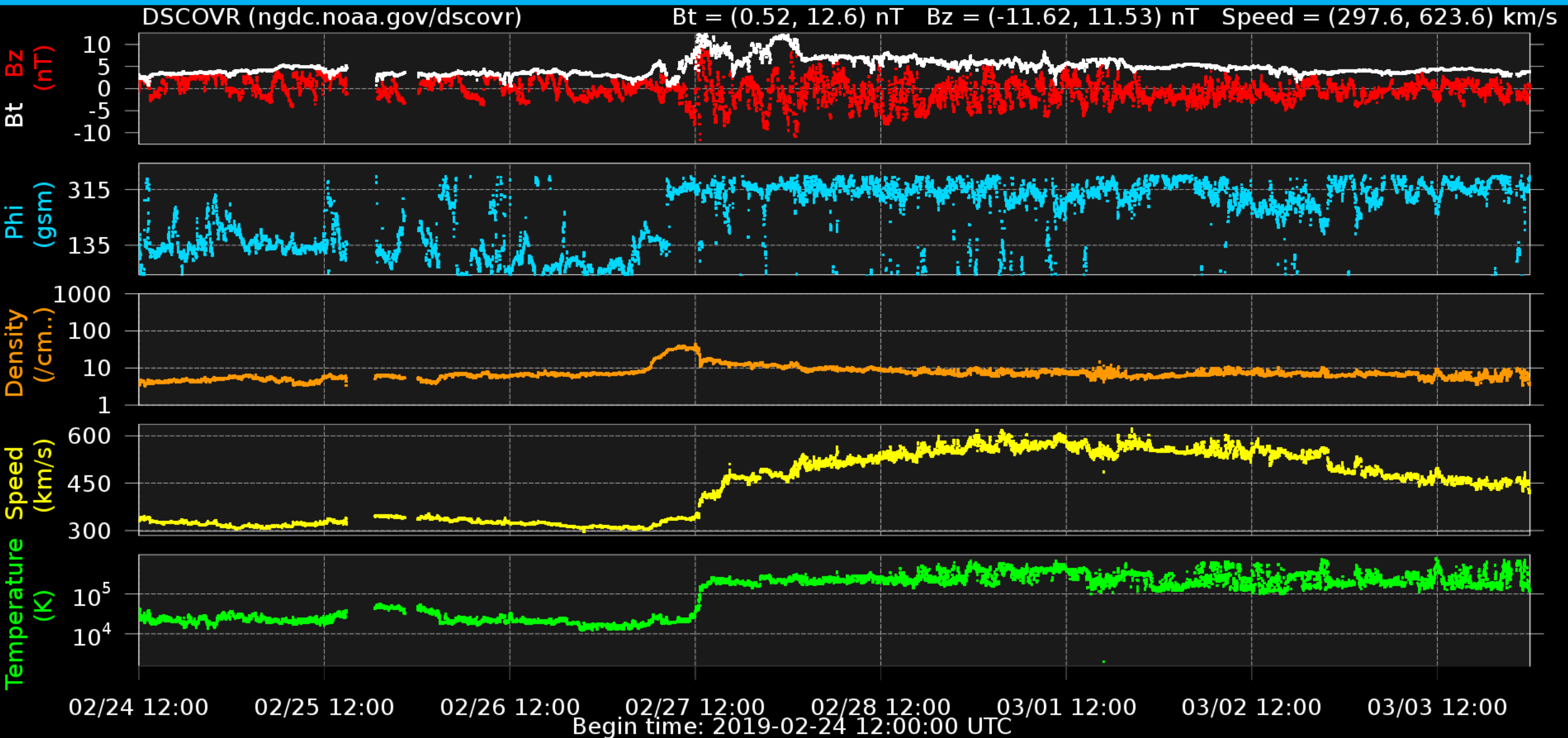
Solar Wind and Geomagnetic Activity



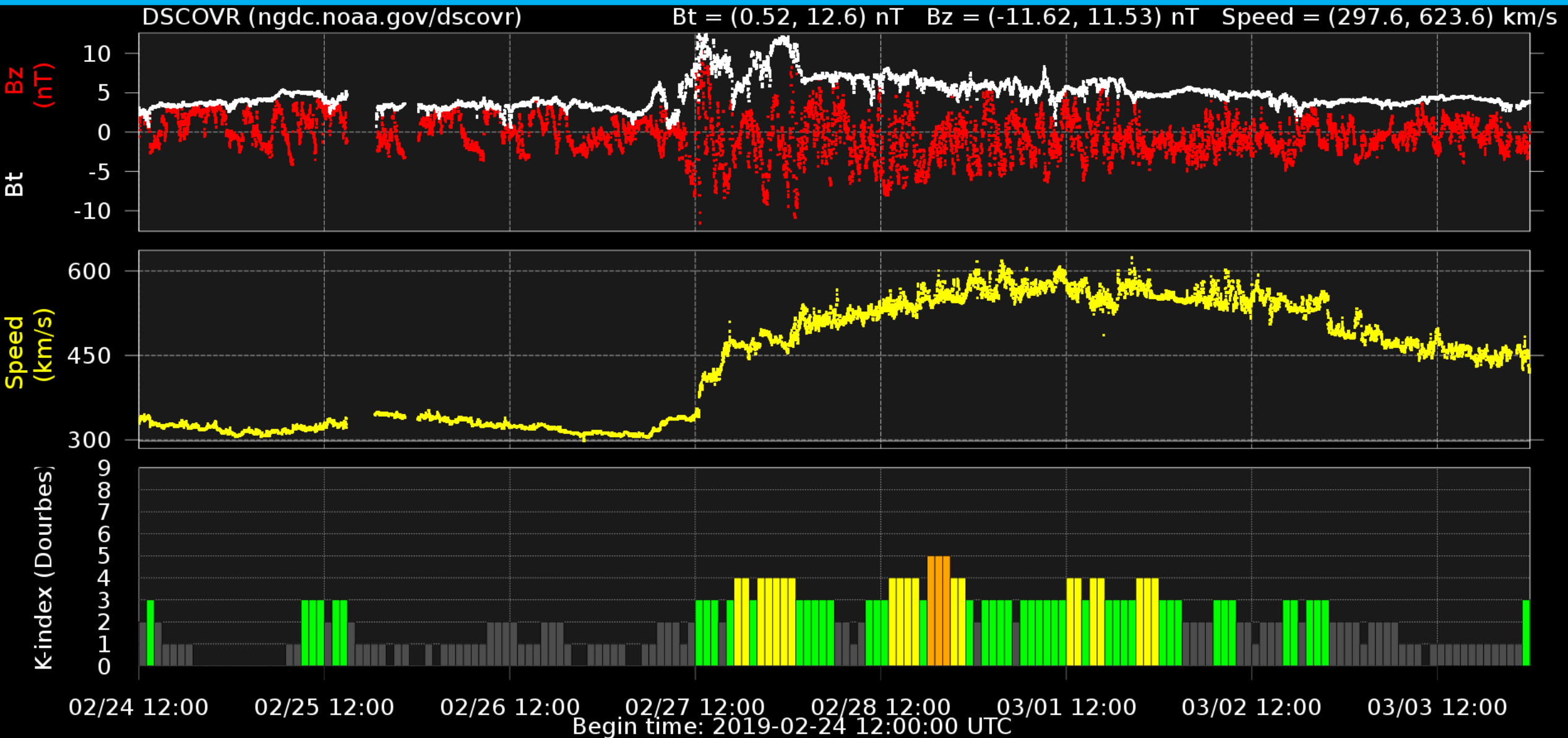
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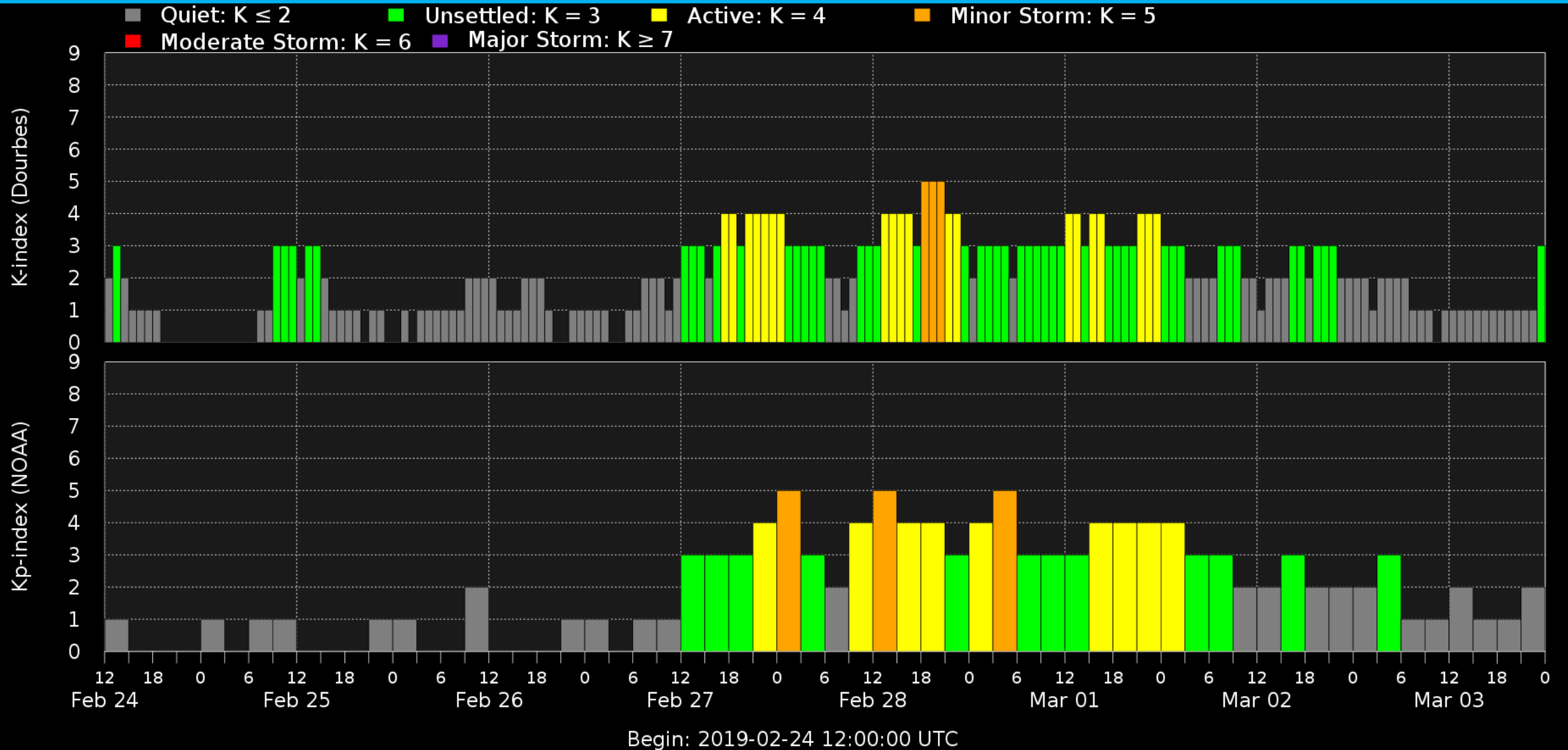
Solar wind parameters (DSCOVR data)



Solar wind parameters & K-index (DSCOVR/Dourbes)



Geomagnetic activity (K-indexes)



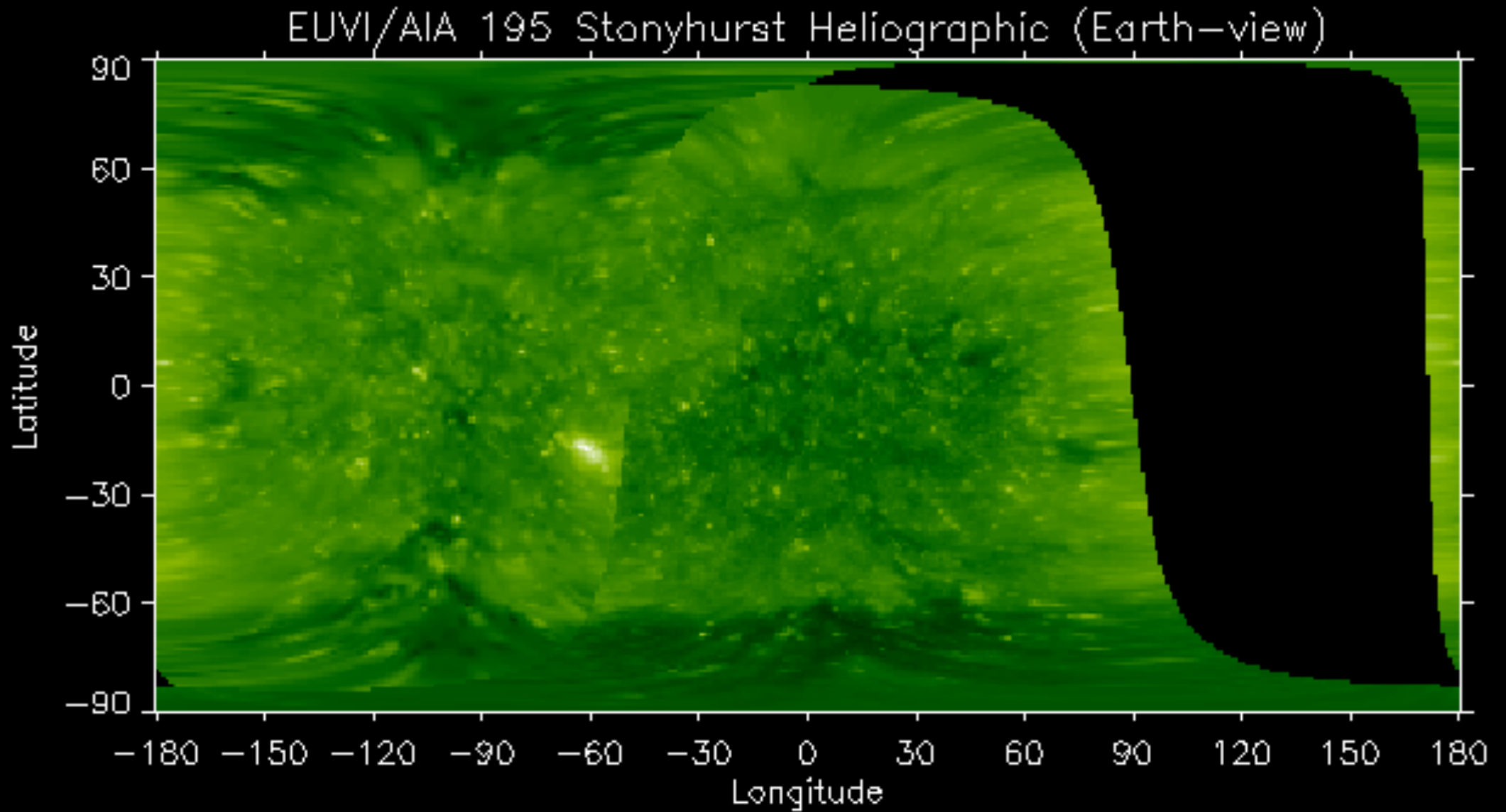
Outlook



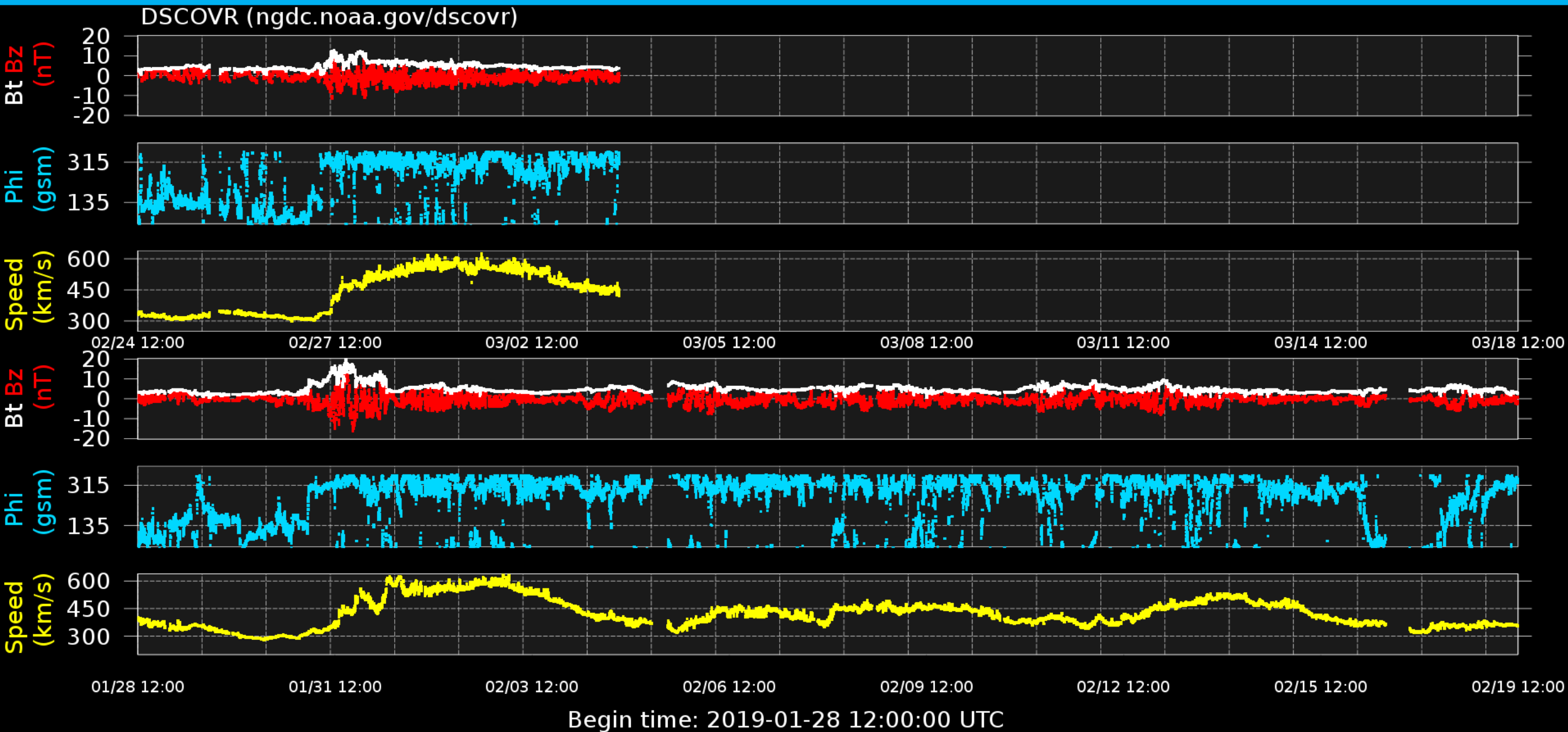
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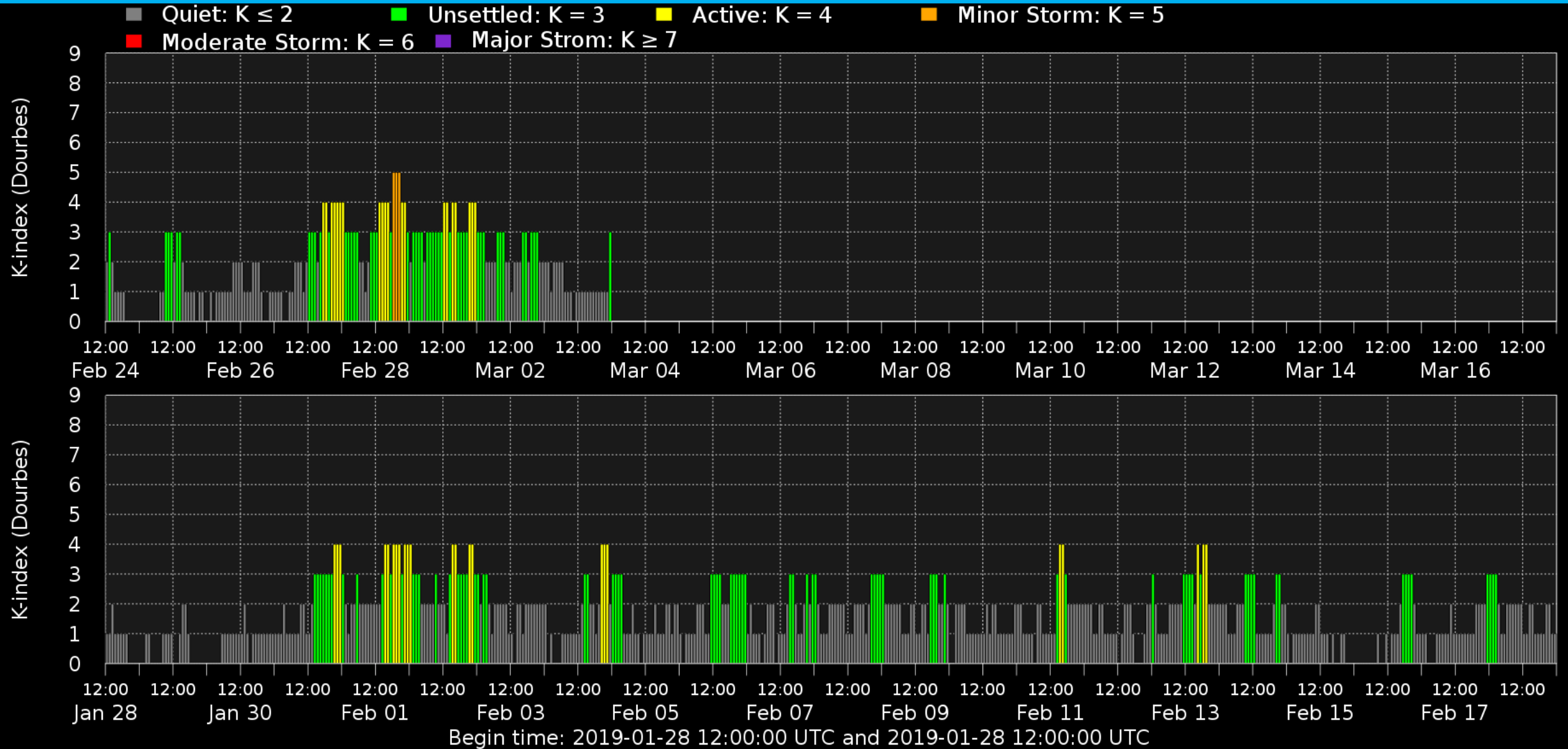
Outlook: Solar activity



Outlook: Solar wind



Outlook: Geomagnetic activity



SIDC Space Weather Briefing

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