

SIDC Space Weather Briefing

05 January 2020 - 12 January 2020

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& the SIDC forecaster team



Royal Observatory
of Belgium

Solar Influences
Data analysis Centre
www.sidc.be

Summary Report

Solar activity from 2020-01-05 12:00 UT to 2020-01-12 12:00 UT

Active regions	Two
Flaring	# B-class flare: 2 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	/
CMEs	/
Proton Events	/

Solar wind and geomagnetic conditions from 2020-01-05 12:00 UT to 2020-01-12 12:00 UT

Coronal Holes	Two large CHs
ICME	/
SW Conditions	Solar wind speed up to 590 km/s
K-indices	max K-index (Dourbes): 4.0 max Kp-index (NOAA): 4

Solar Activity

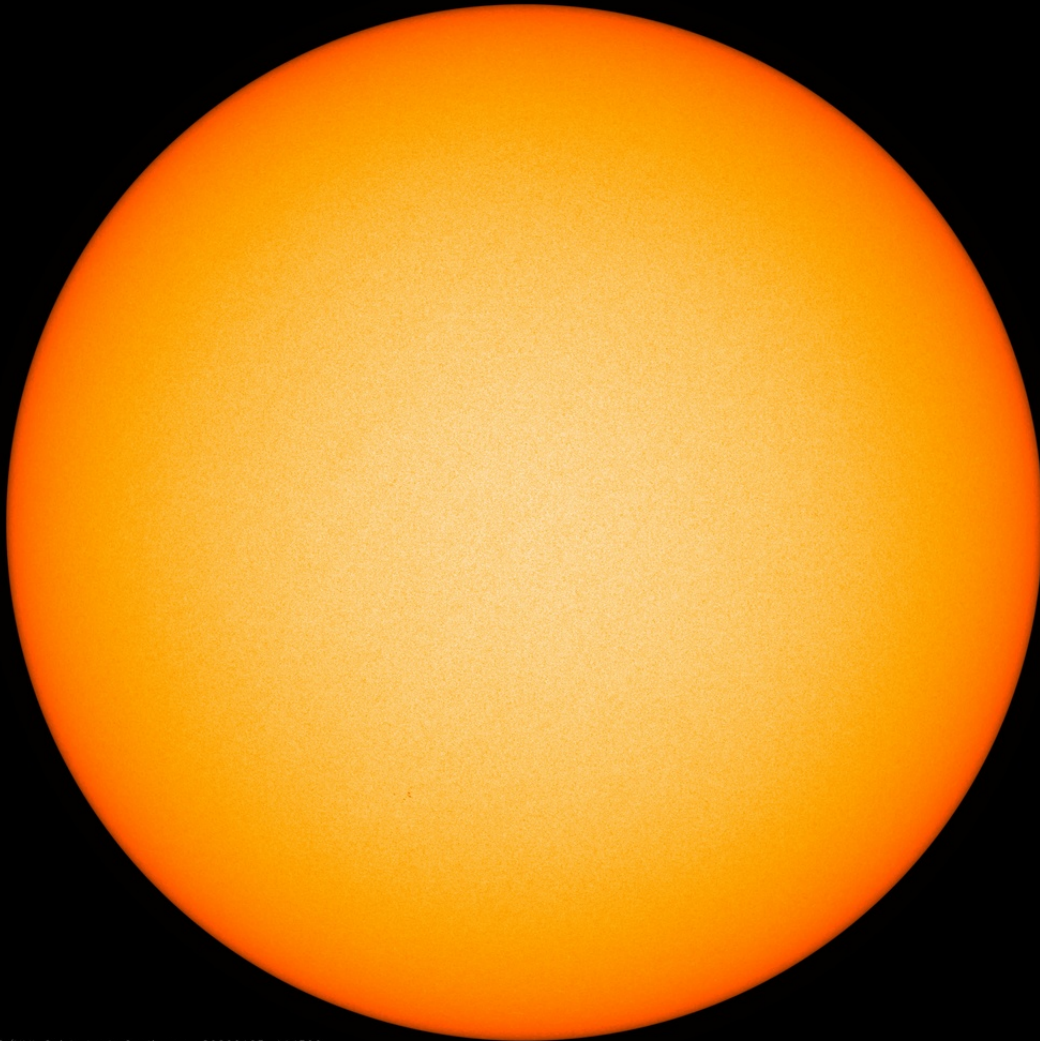


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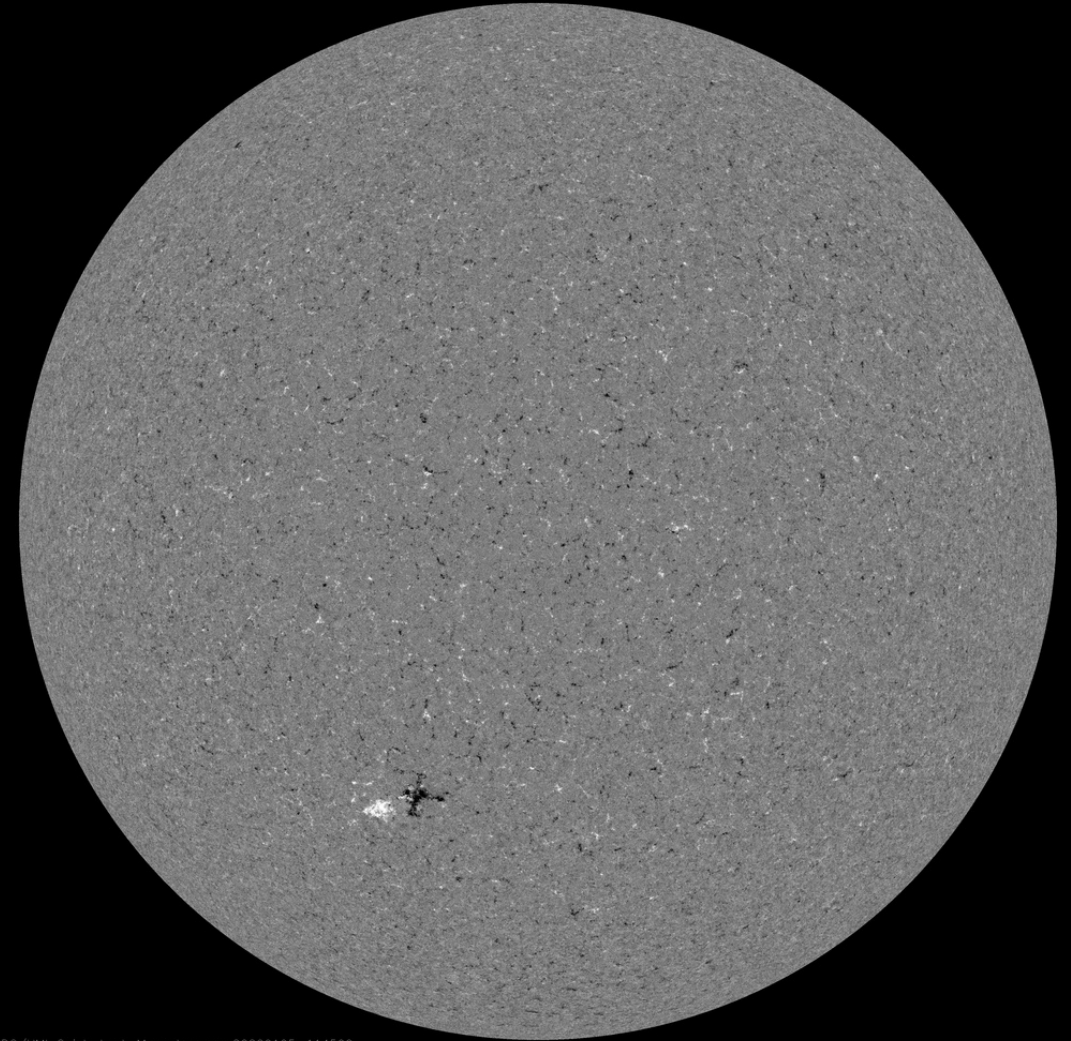
Solar active region - start of the week

SDO/HMI White Light 2020-01-05



SDO/HMI Quick-Look Continuum: 20200105_114500

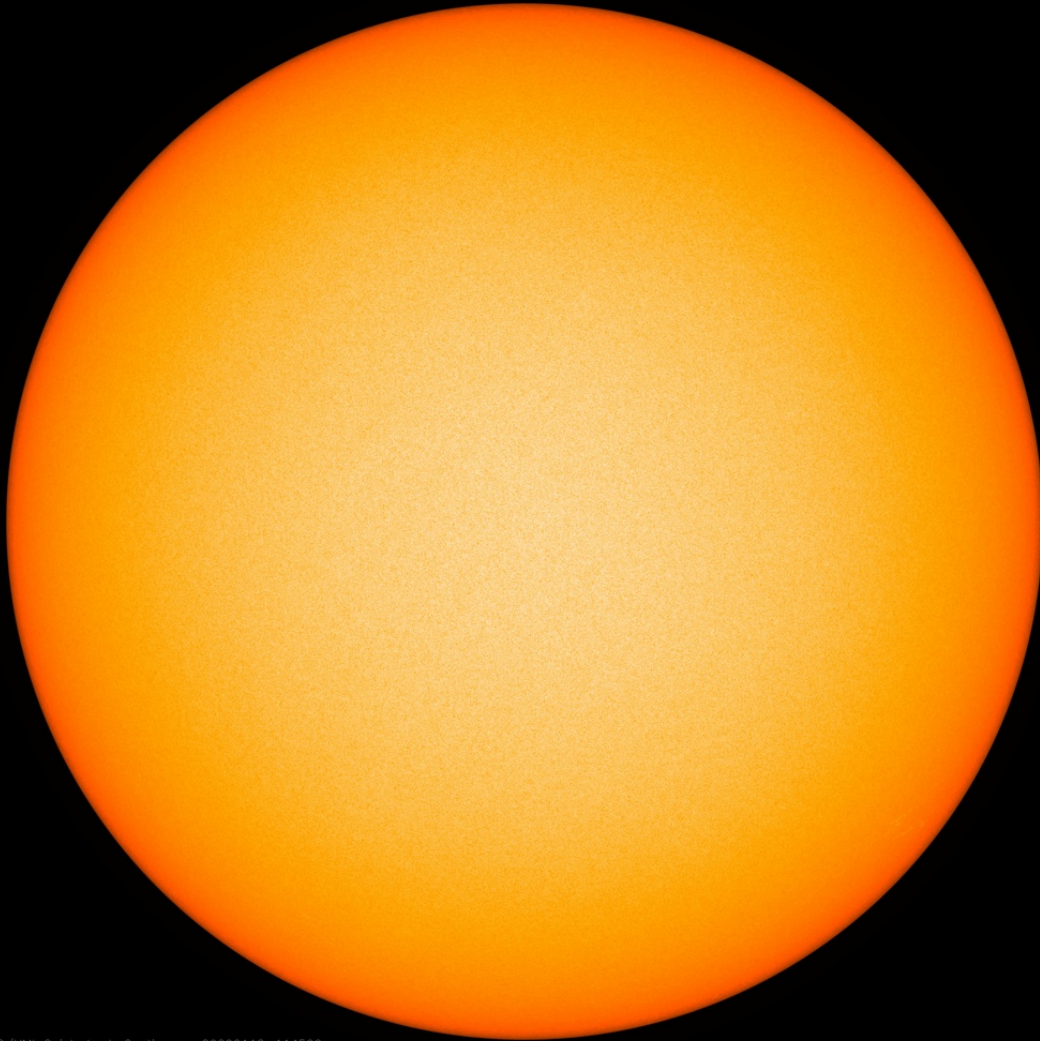
SDO/HMI Magnetogram 2020-01-05



SDO/HMI Quick-Look Magnetogram: 20200105_114500

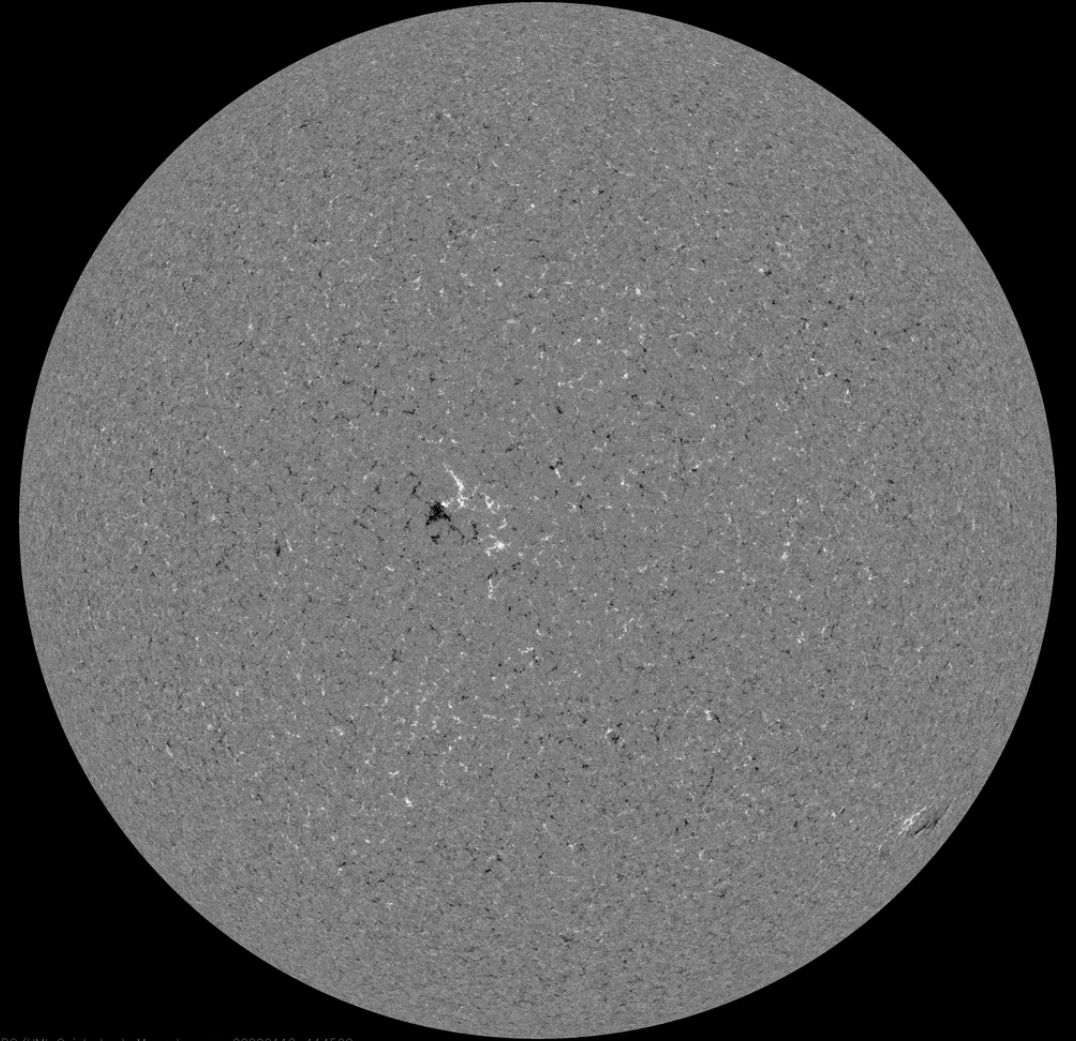
Solar active region - end of the week

SDO/HMI White Light 2020-01-12



SDO/HMI Quick-Look Continuum: 20200112_114500

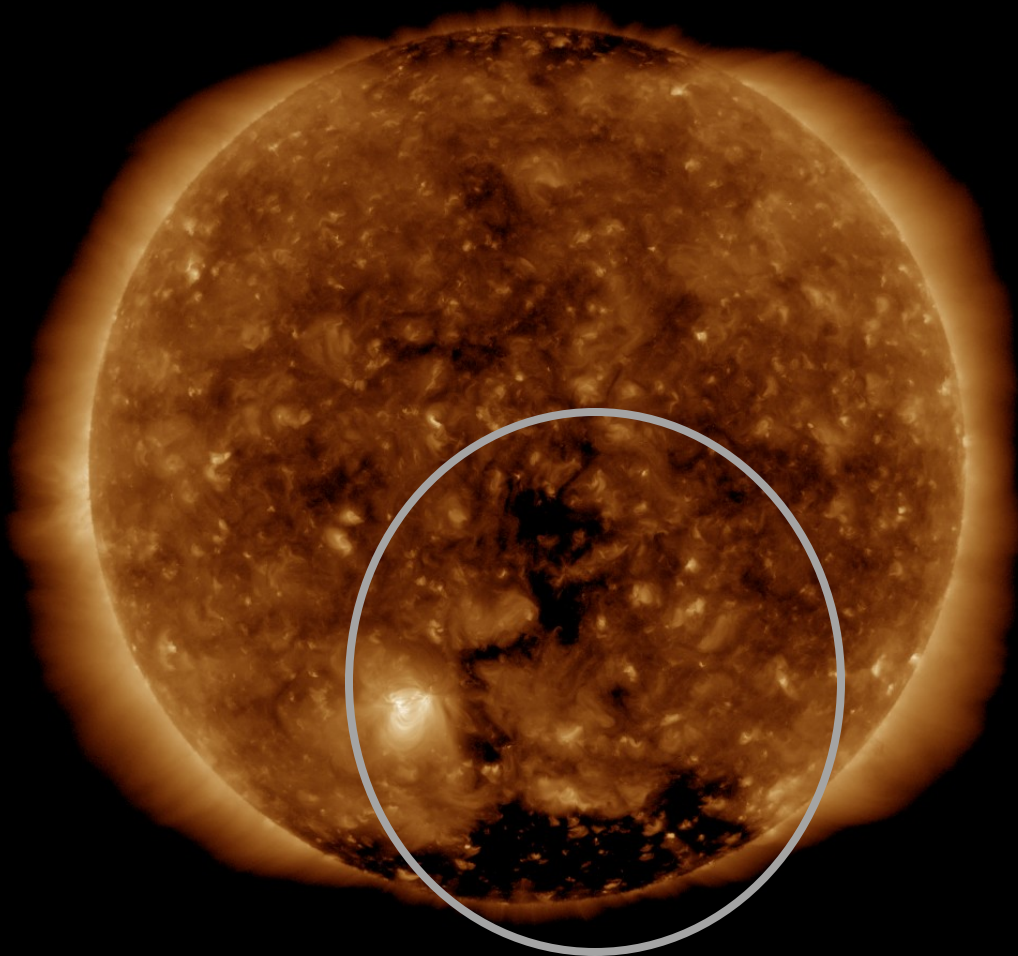
SDO/HMI Magnetogram 2020-01-12



SDO/HMI Quick-Look Magnetogram: 20200112_114500

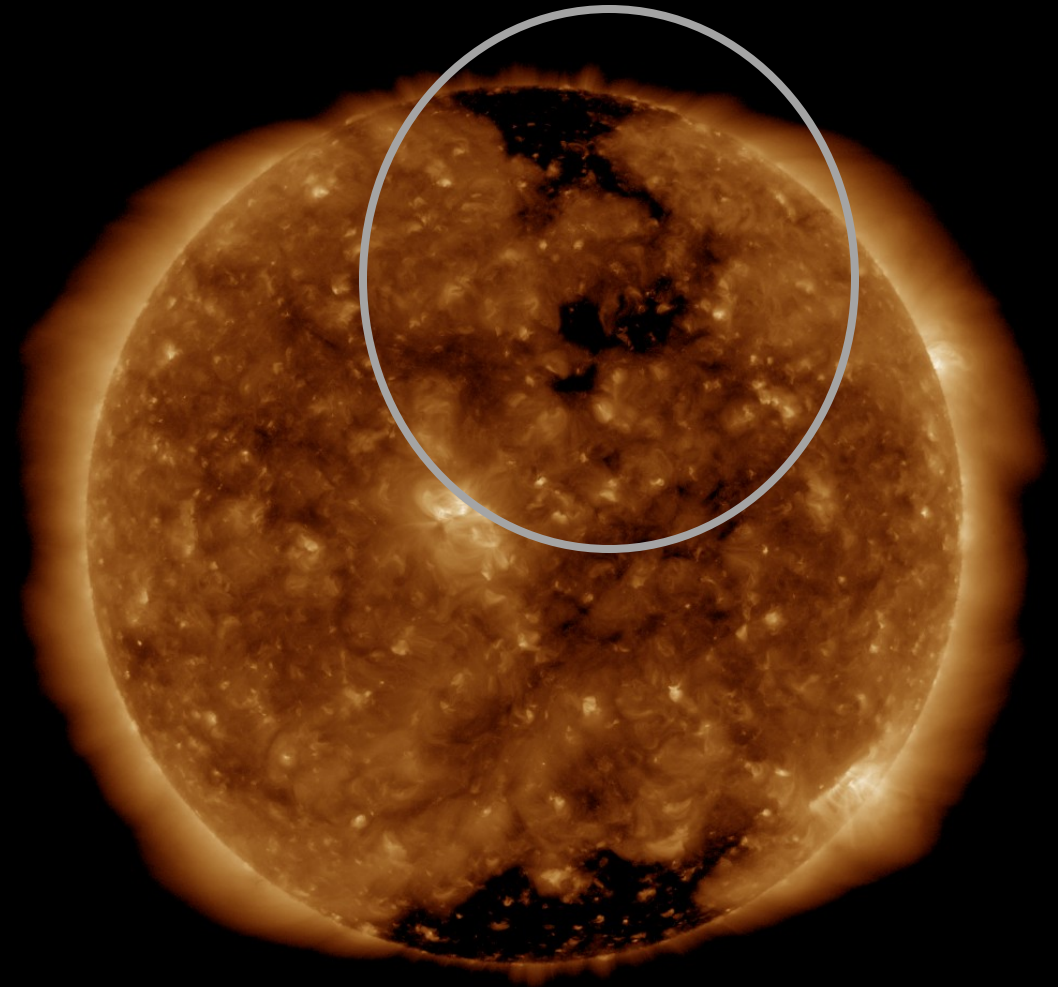
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2020-01-05



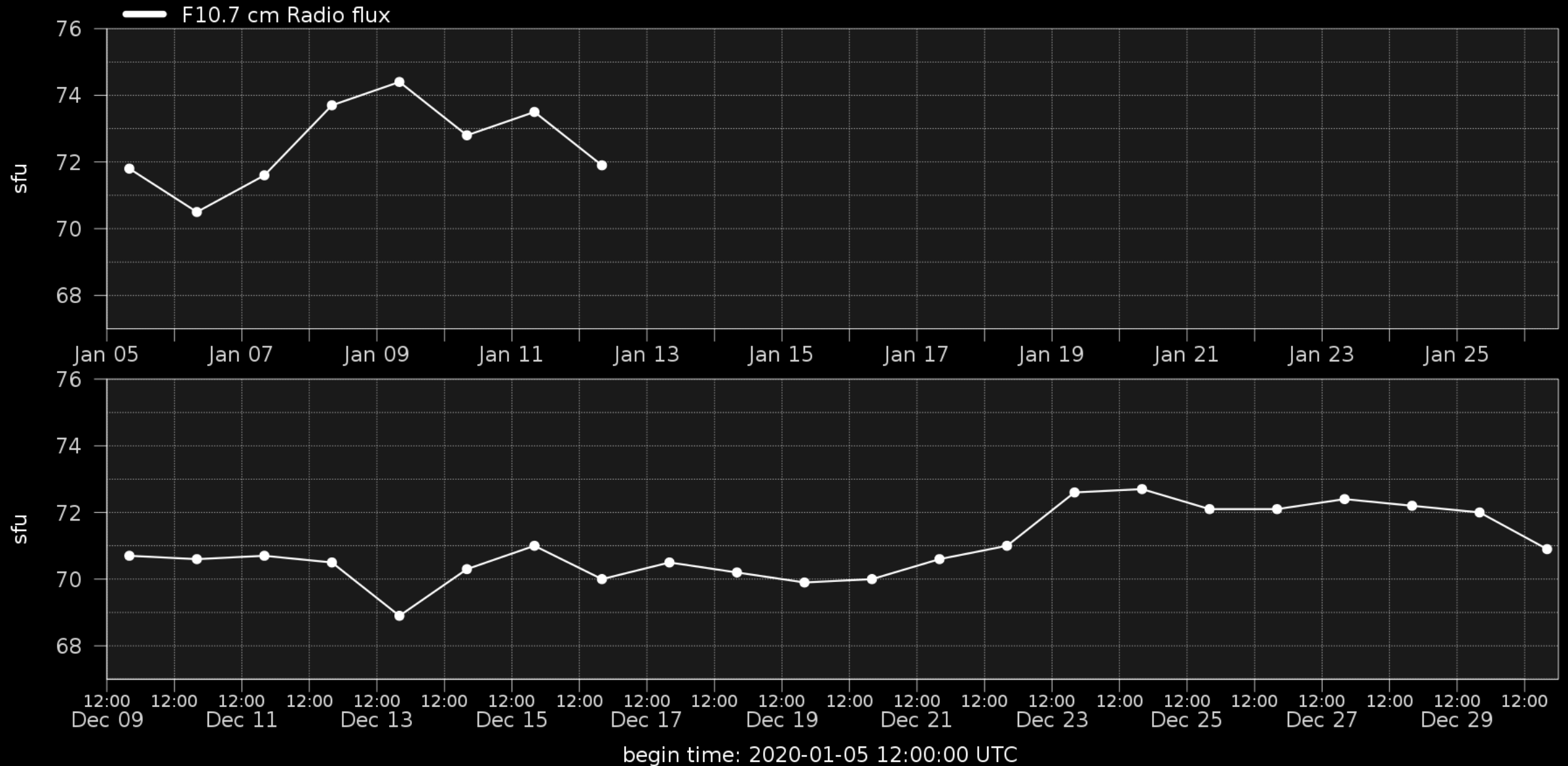
SDO/AIA 193 2020-01-05 12:10:29 UT

SDO/AIA 19.3 nm 2020-01-12

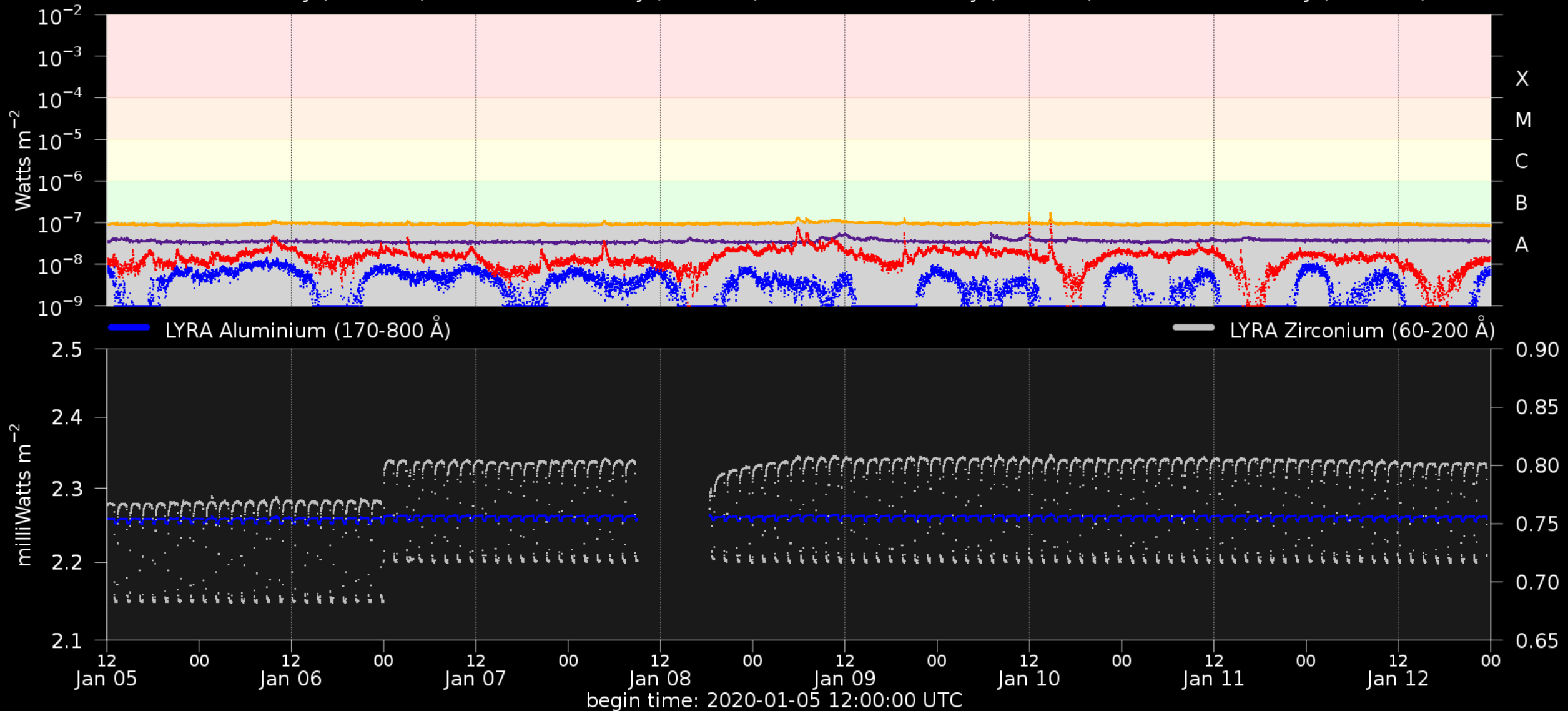


SDO/AIA 193 2020-01-12 12:10:29 UT

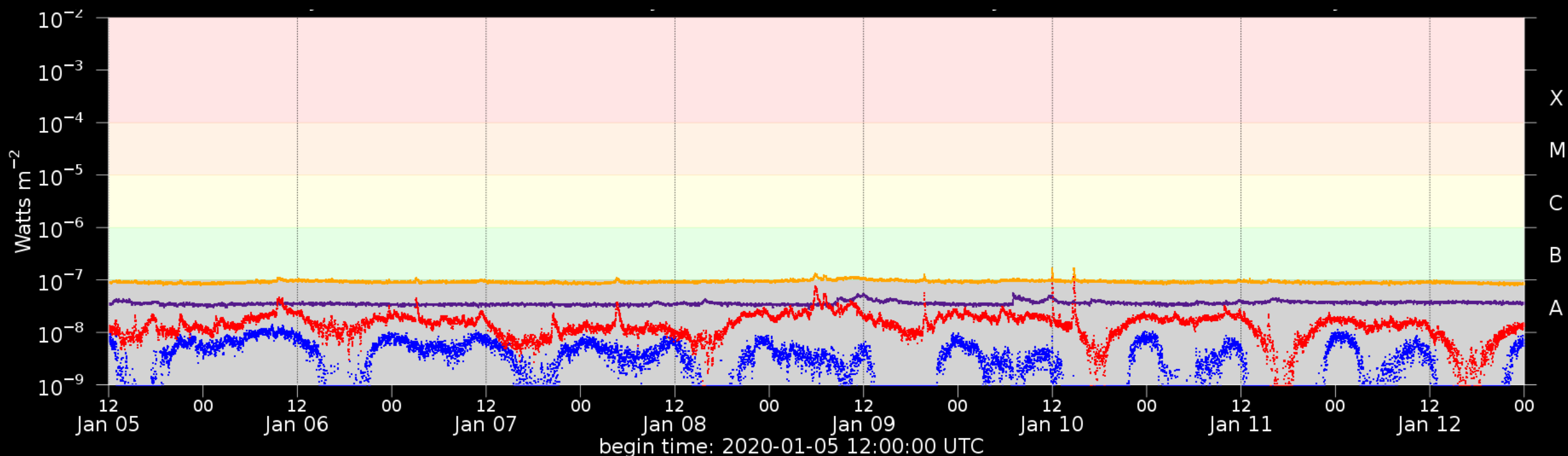
Solar F10.7cm radio flux



Solar X-Ray and UV flux



Flaring activity



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

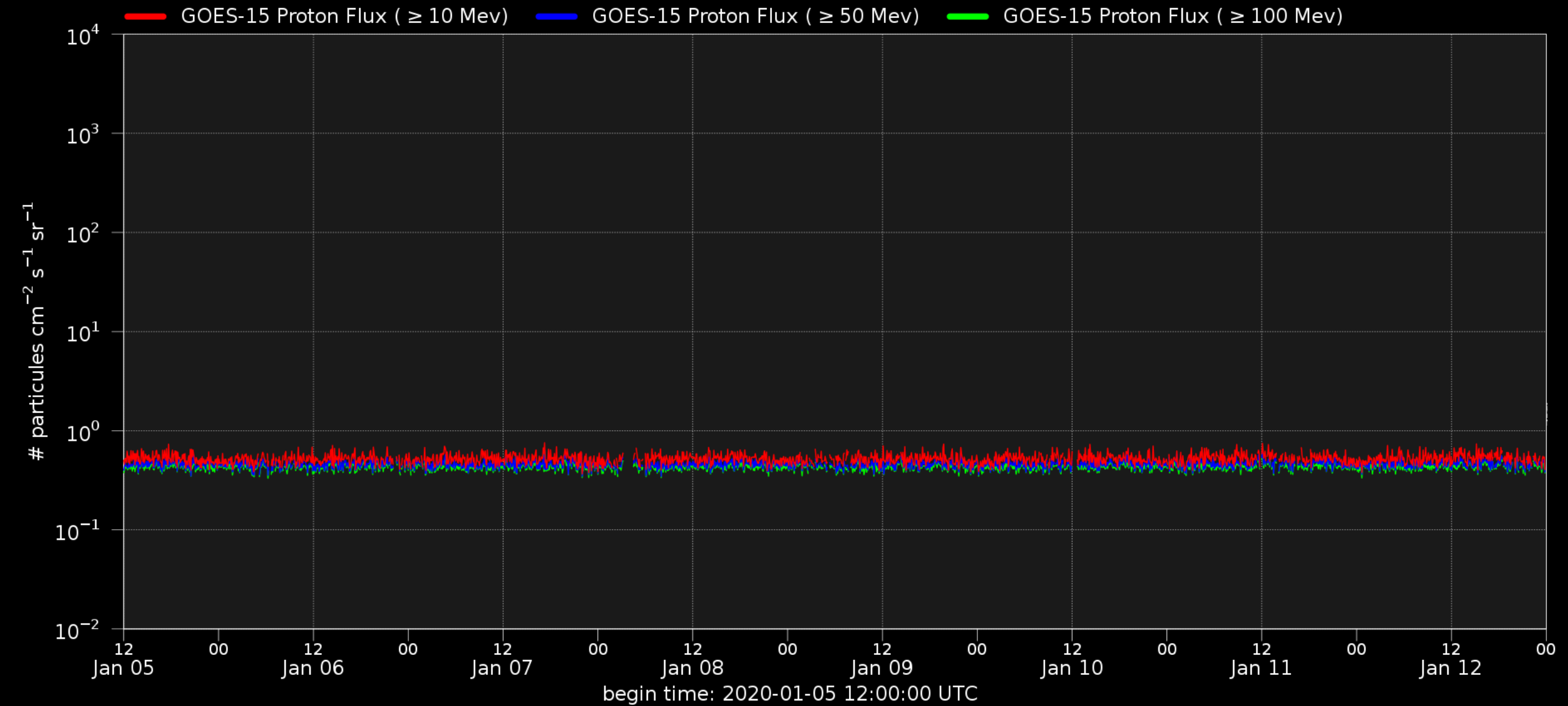
Issue date	2020-01-05	2020-01-06	2020-01-07	2020-01-08	2020-01-09	2020-01-10	2020-01-11	2020-01-12
Probability	--- 05 01 01	--- 02 01 01	--- 01 01 01	--- 05 01 01	--- 05 01 01	--- 02 01 01	--- 01 01 01	--- 01 01 01
Observed	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	02 00 00 00	00 00 00 00	00 00 00 00

Coronal Mass Ejection



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

Solar proton flux



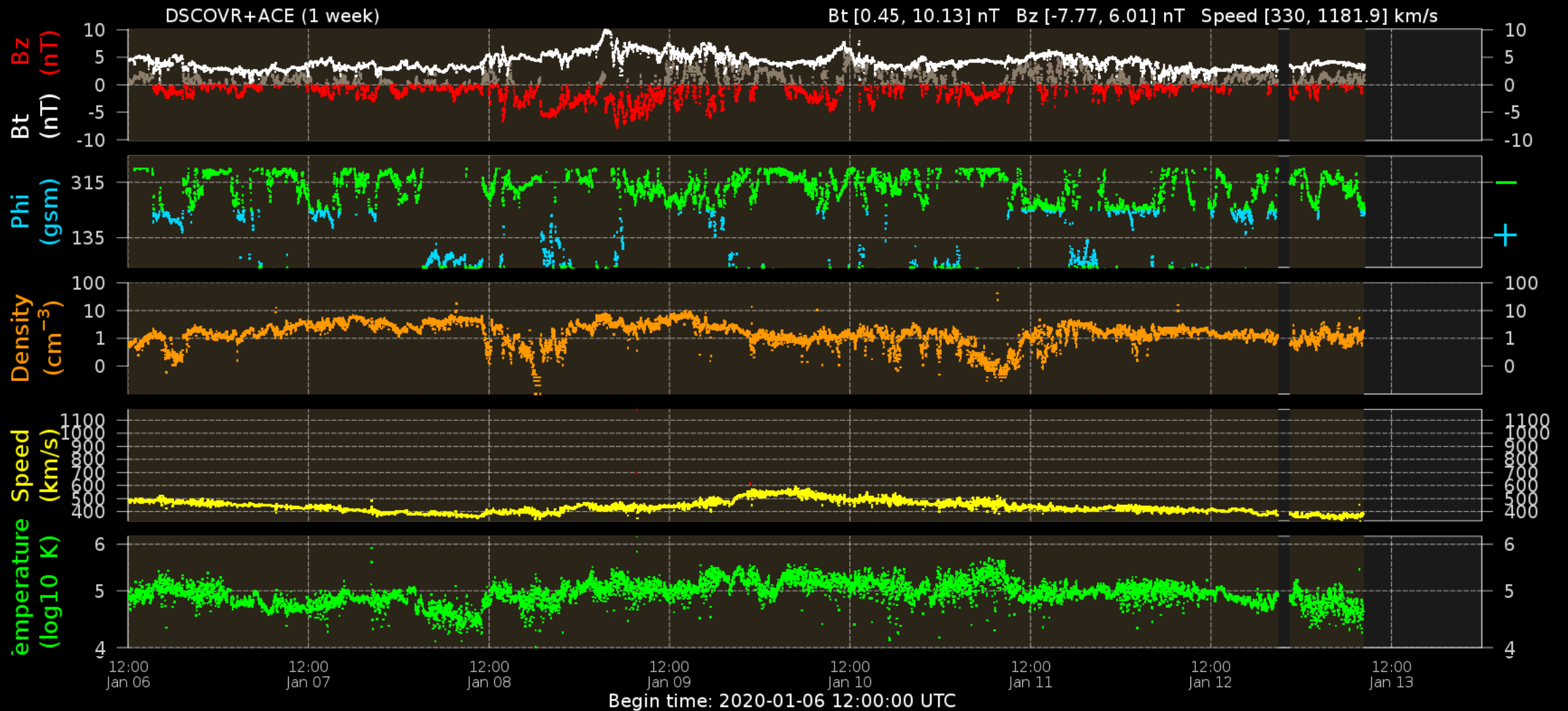
Solar Wind and Geomagnetic Activity



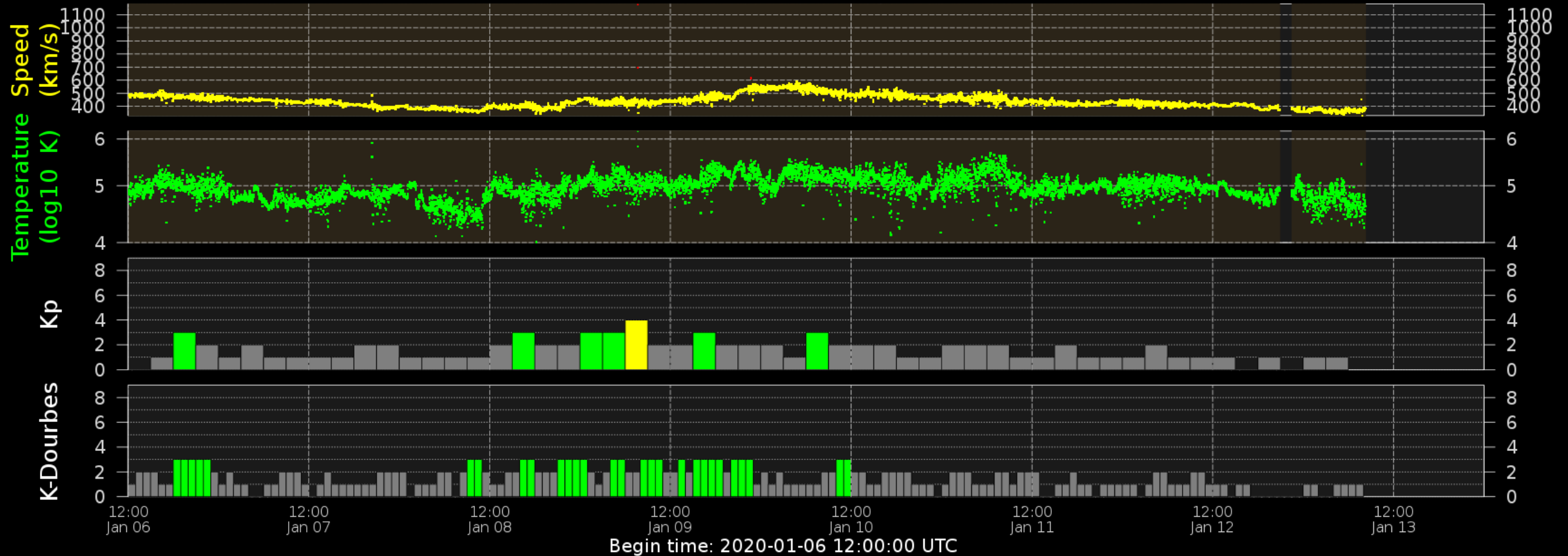
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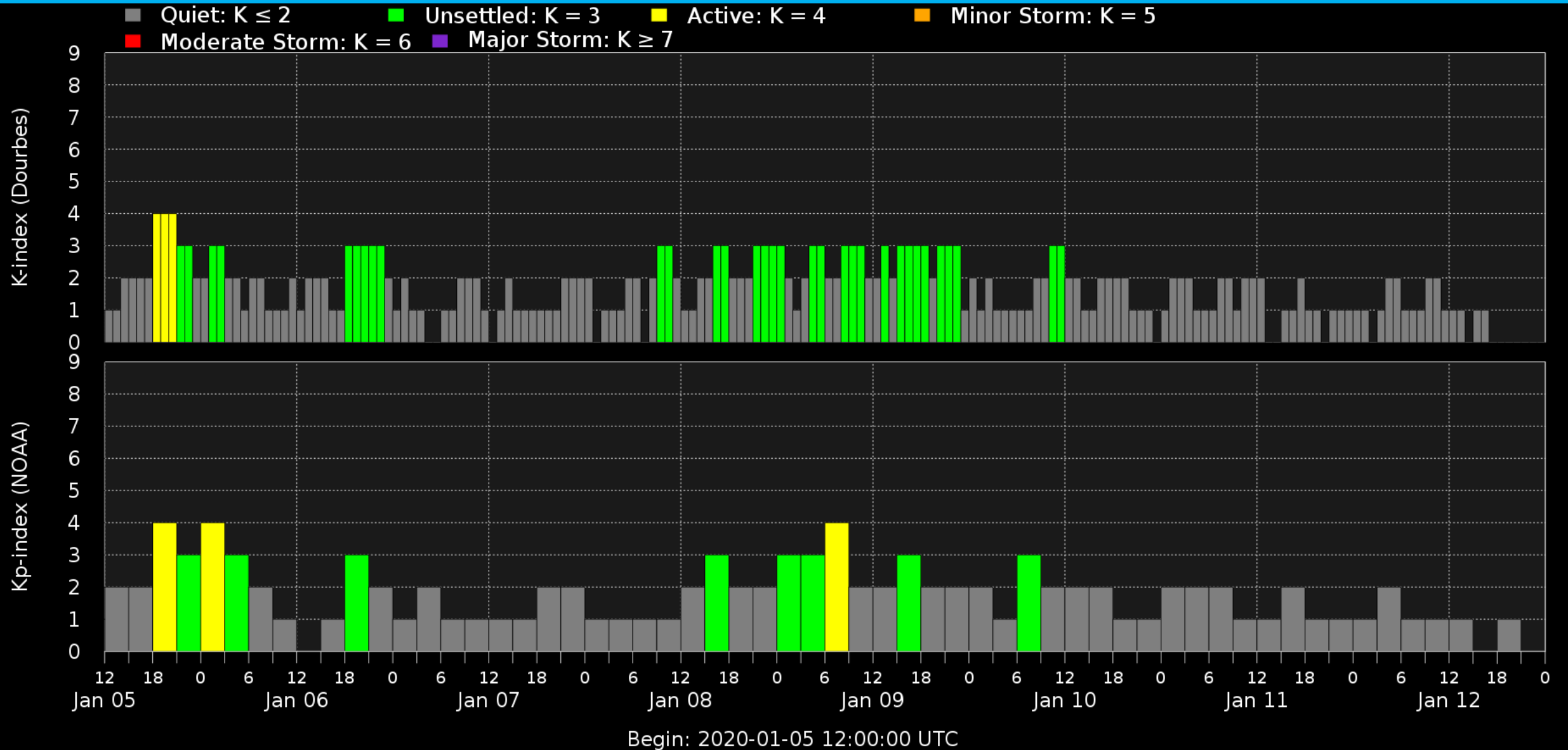
Solar wind parameters (ACE/DSCOVR data)



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



Geomagnetic activity (K-indexes)



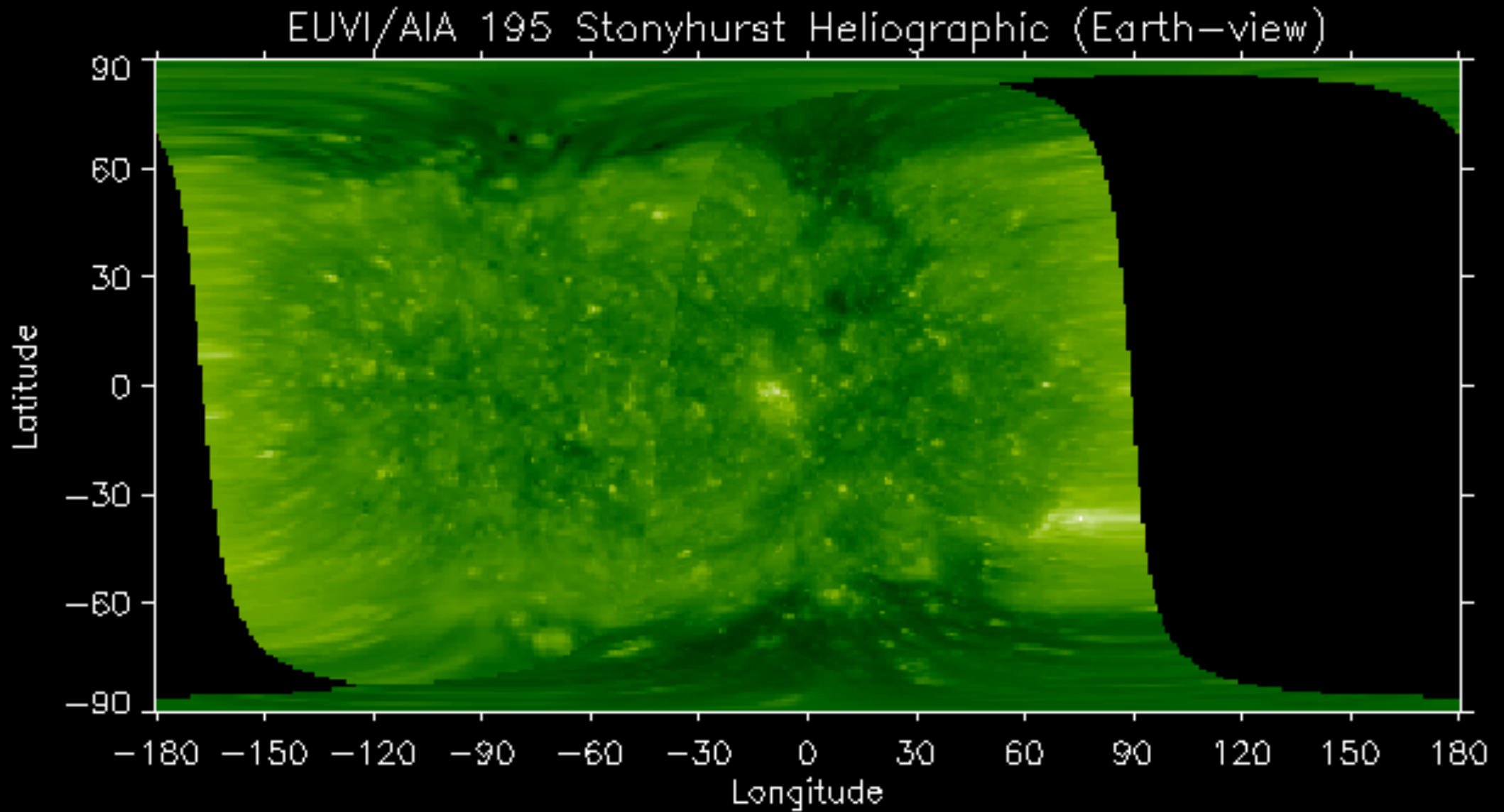
Outlook



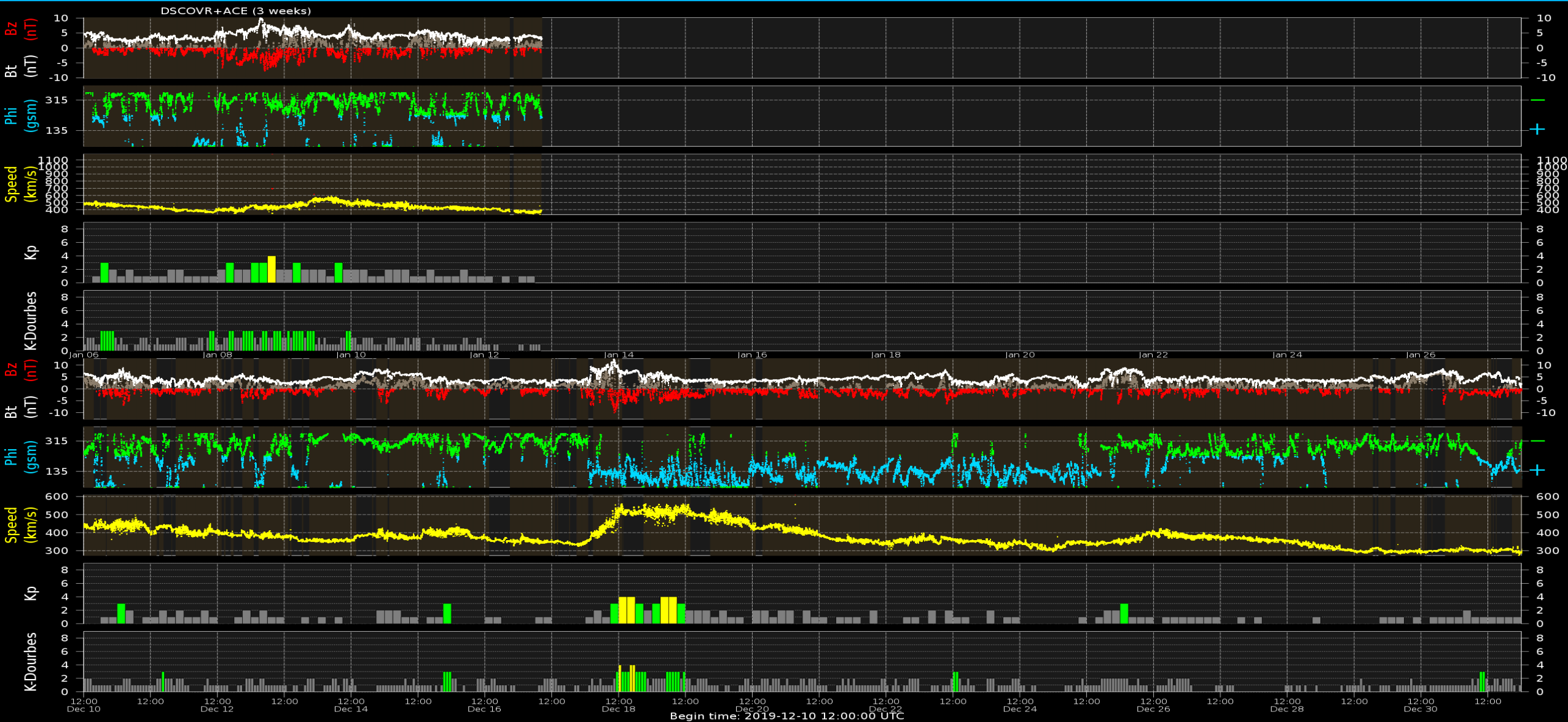
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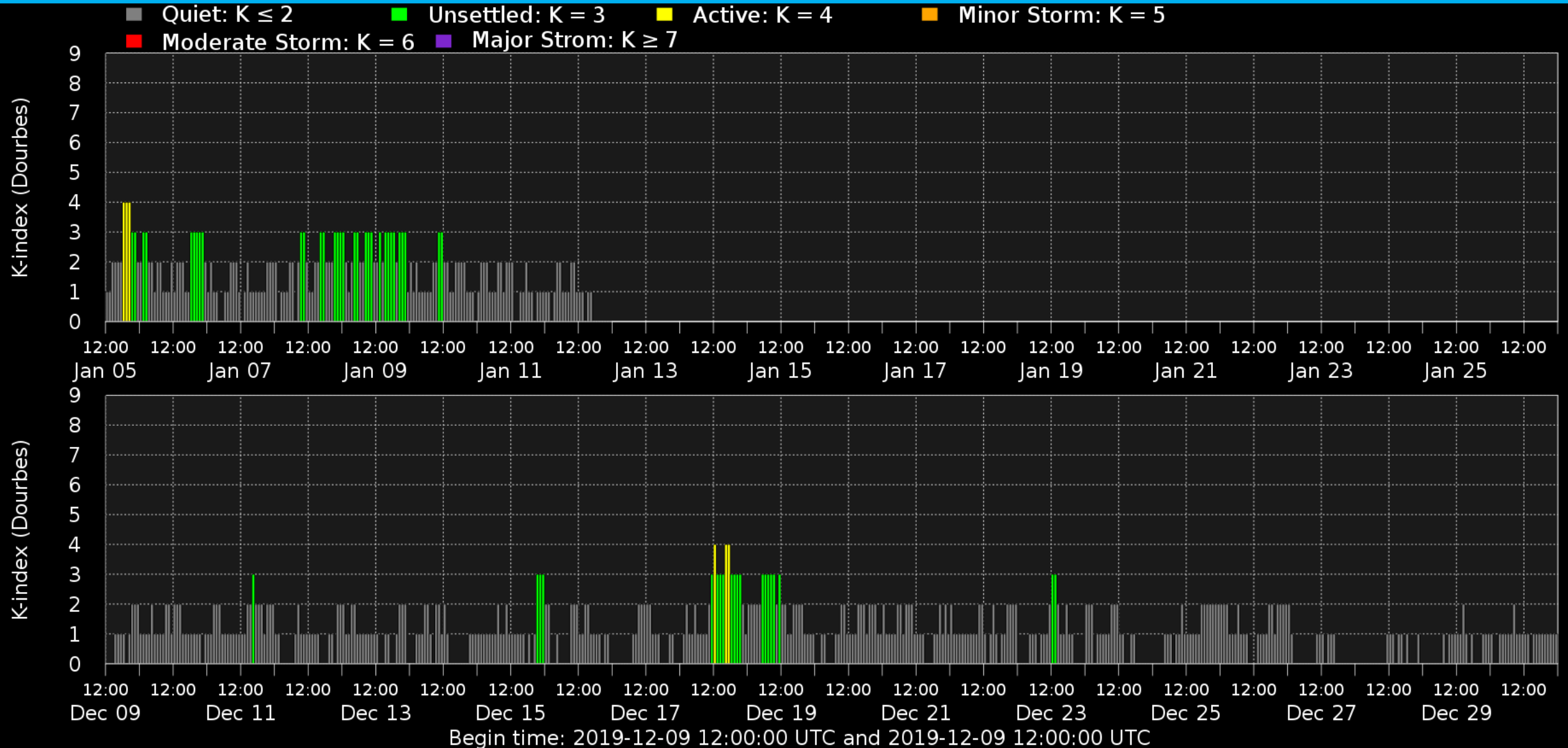
Outlook: Solar activity



Outlook: Solar wind



Outlook: Geomagnetic activity



SIDC Space Weather Briefing

See you at our next briefing!

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