

SIDC Space Weather Briefing

02 February 2020 - 09 February 2020

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& the SIDC forecaster team



Solar Influences
Data analysis Centre
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Summary Report

Solar activity from 2020-02-02 12:00 UT to 2020-02-09 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	None
Proton Events	Quiet

Solar wind and geomagnetic conditions from 2020-02-02 12:00 UT to 2020-02-09 12:00 UT

Coronal Holes	CH- extension of south pole ; low latitude CH+ northern hemisphere
ICME	None
SW Conditions	High speed stream reaching 680 km/s
K-indices	max K-index (Dourbes): 5.0 max Kp-index (NOAA): 4

All Quiet Alert: Switched off due to High speed stream

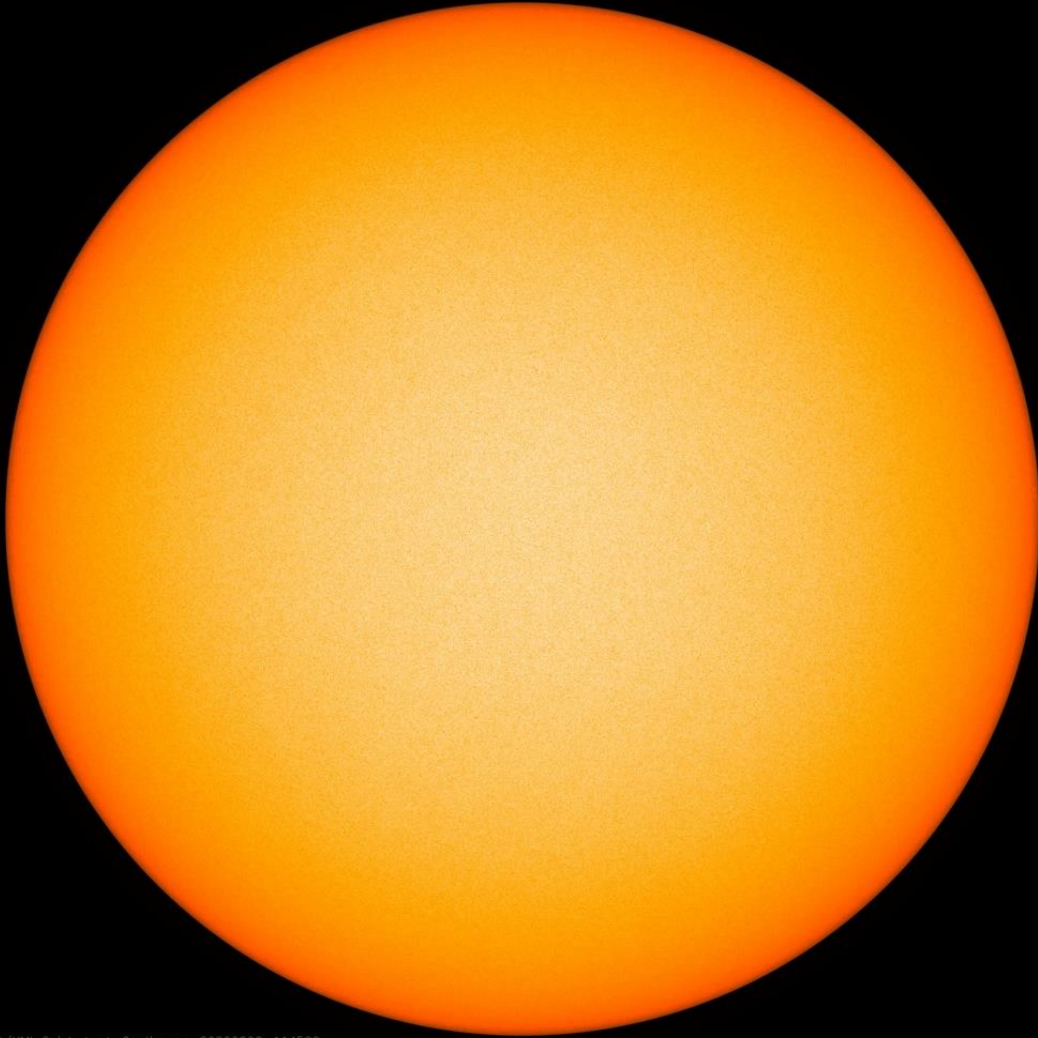
Solar Activity



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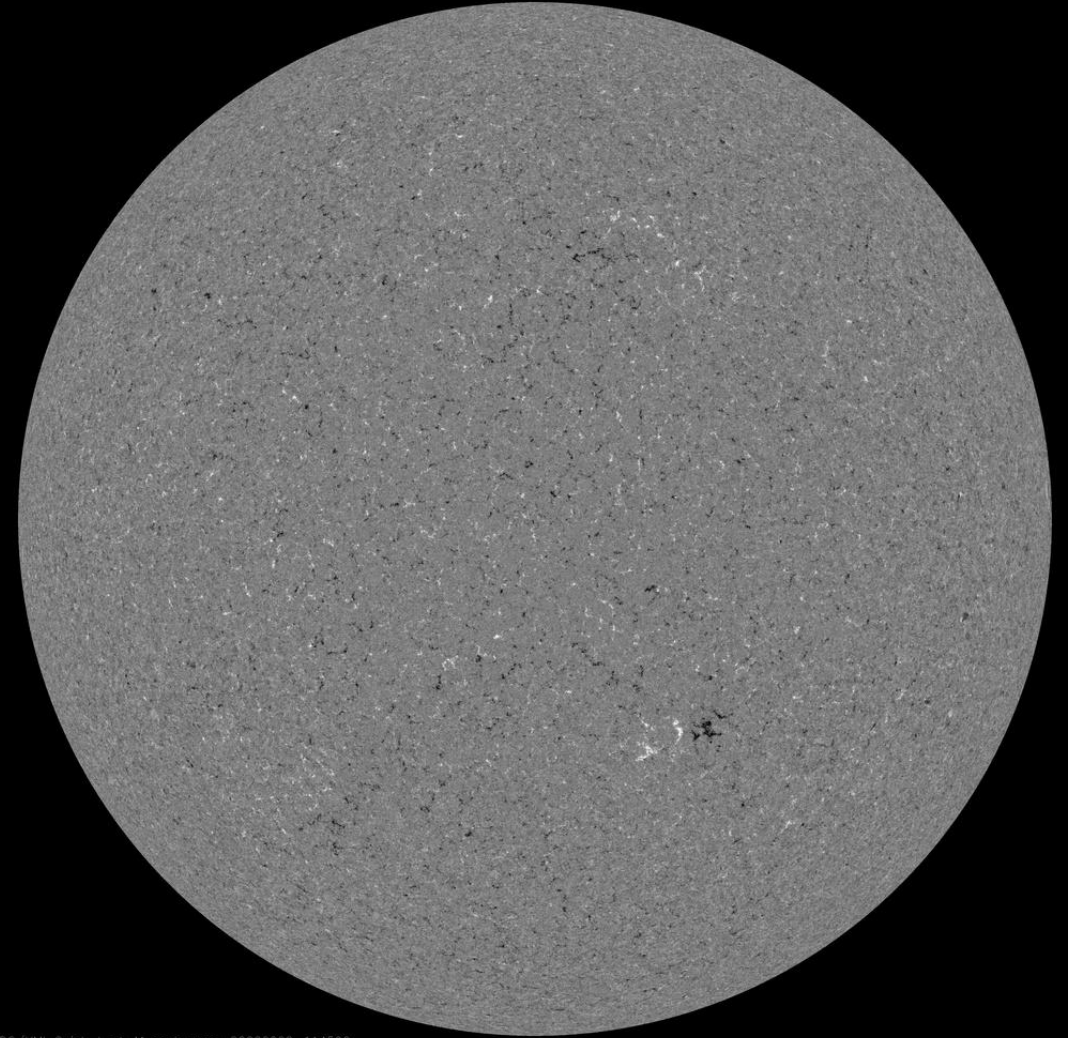
Solar active region - start of the week

SDO/HMI White Light 2020-02-02



SDO/HMI Quick-Look Continuum: 20200202_114500

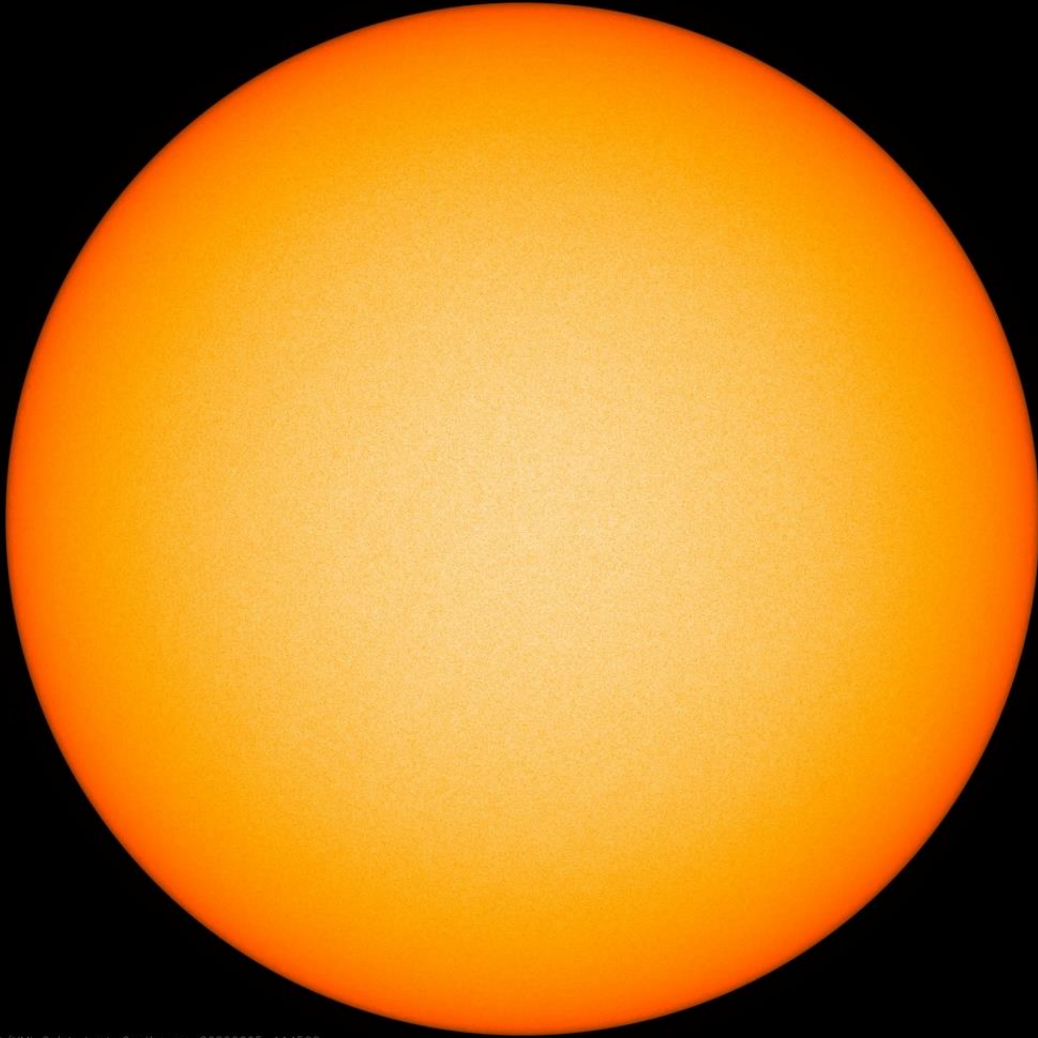
SDO/HMI Magnetogram 2020-02-02



SDO/HMI Quick-Look Magnetogram: 20200202_114500

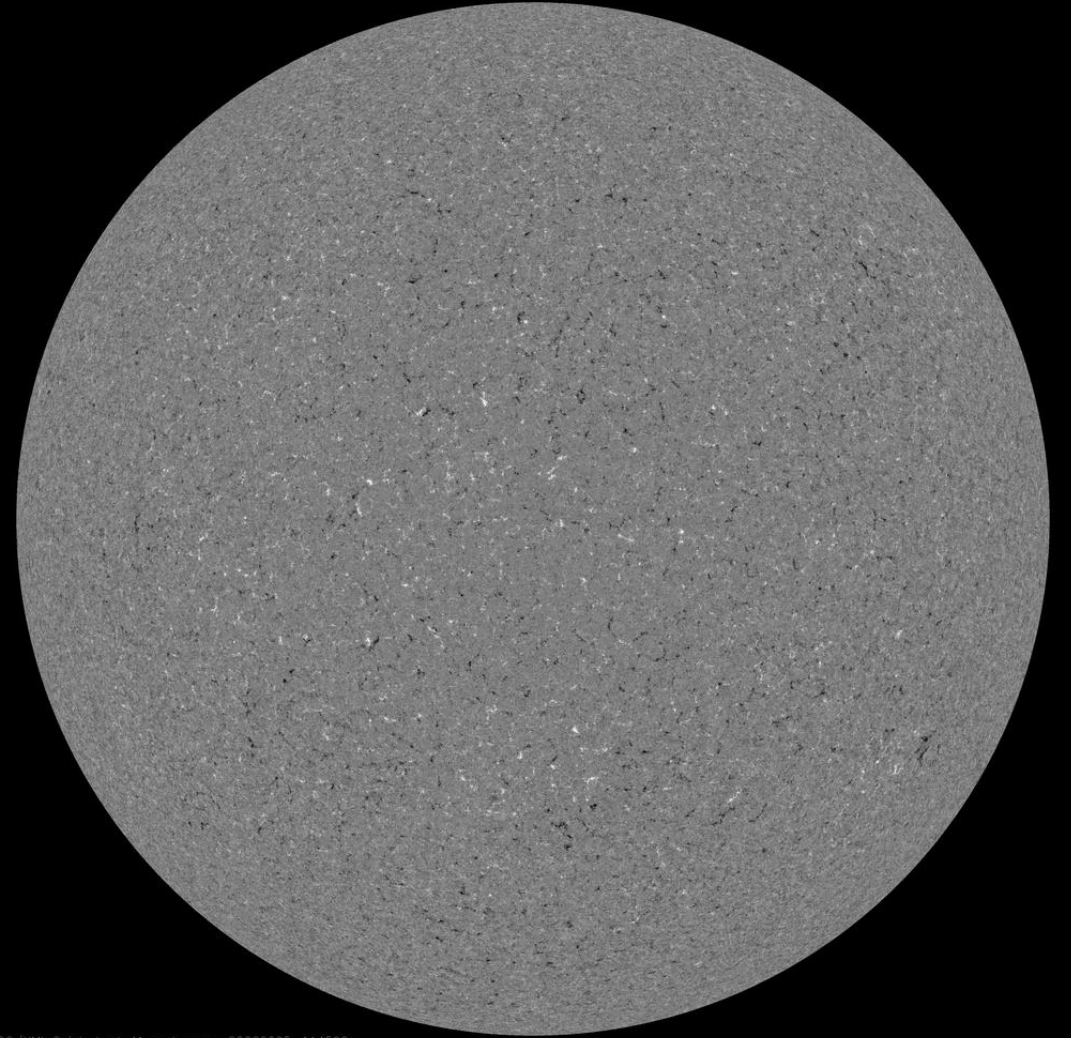
Solar active region - middle of the week

SDO/HMI White Light 2020-02-05



SDO/HMI Quick-Look Continuum: 20200205_114500

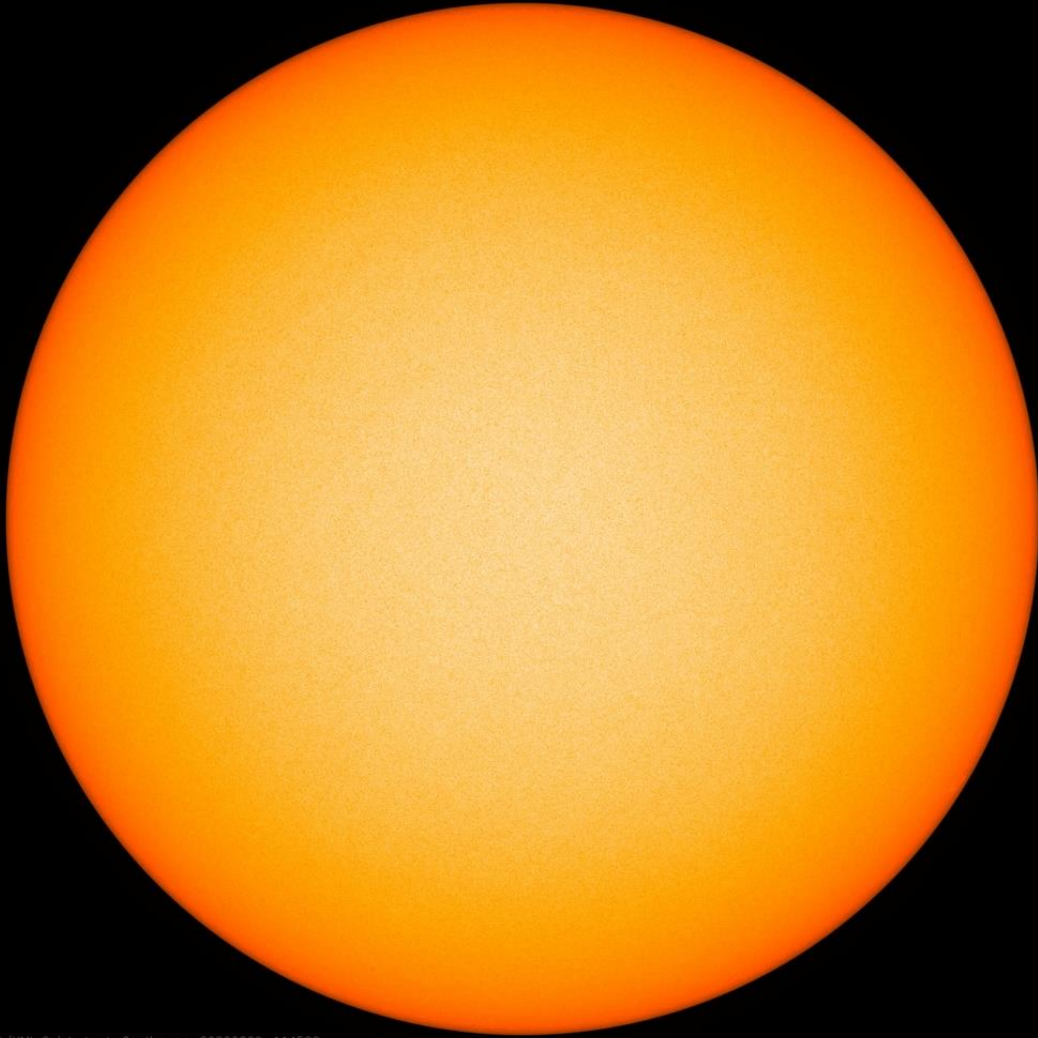
SDO/HMI Magnetogram 2020-02-05



SDO/HMI Quick-Look Magnetogram: 20200205_114500

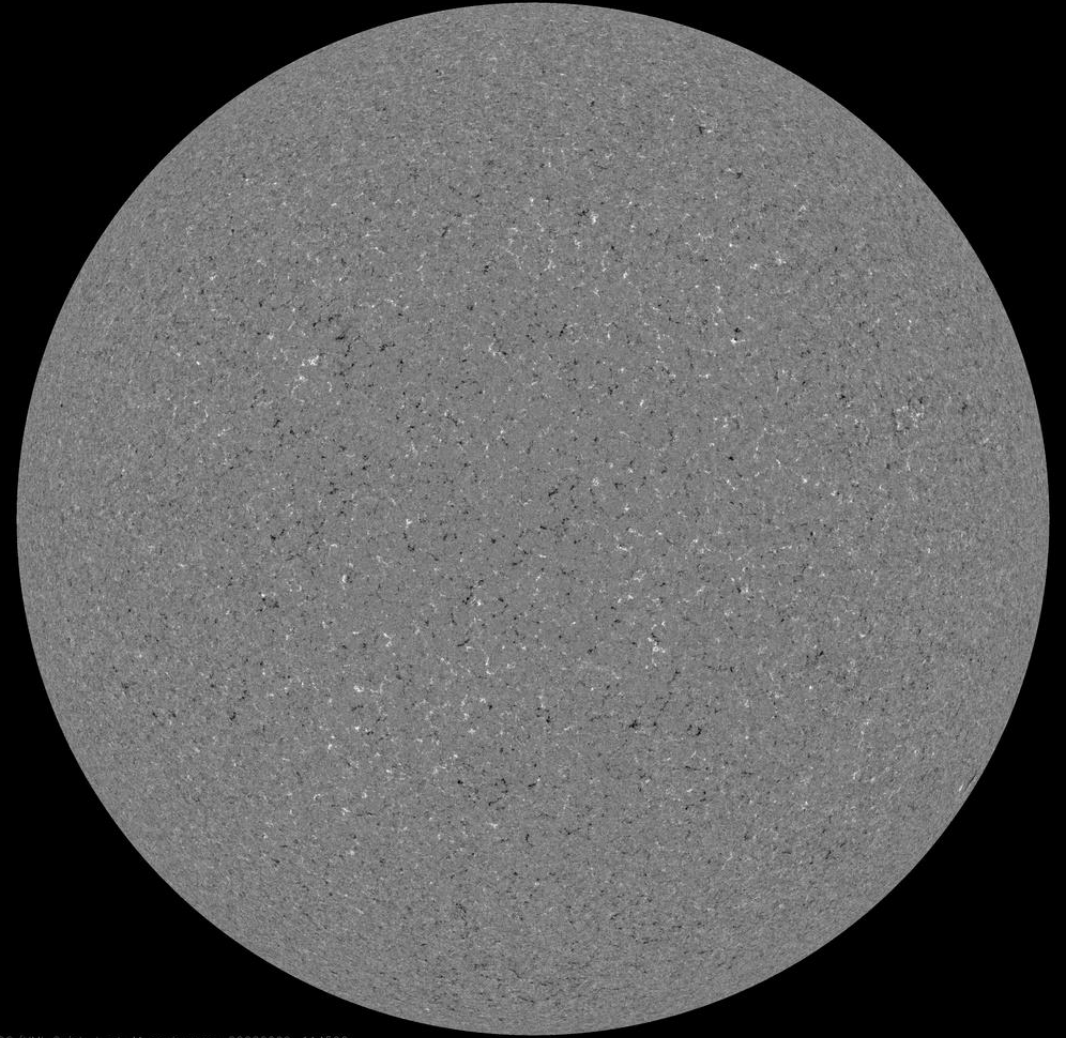
Solar active region - end of the week

SDO/HMI White Light 2020-02-09



SDO/HMI Quick-Look Continuum: 20200209_114500

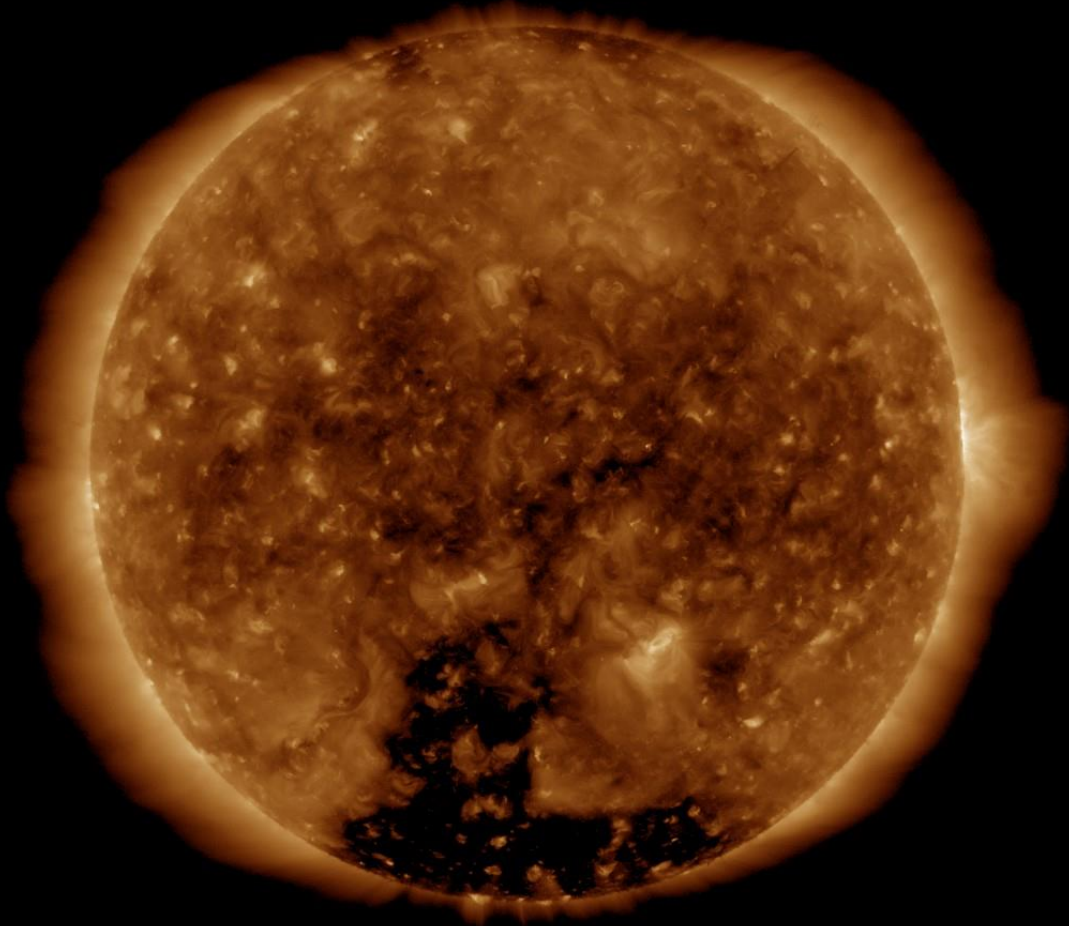
SDO/HMI Magnetogram 2020-02-09



SDO/HMI Quick-Look Magnetogram: 20200209_114500

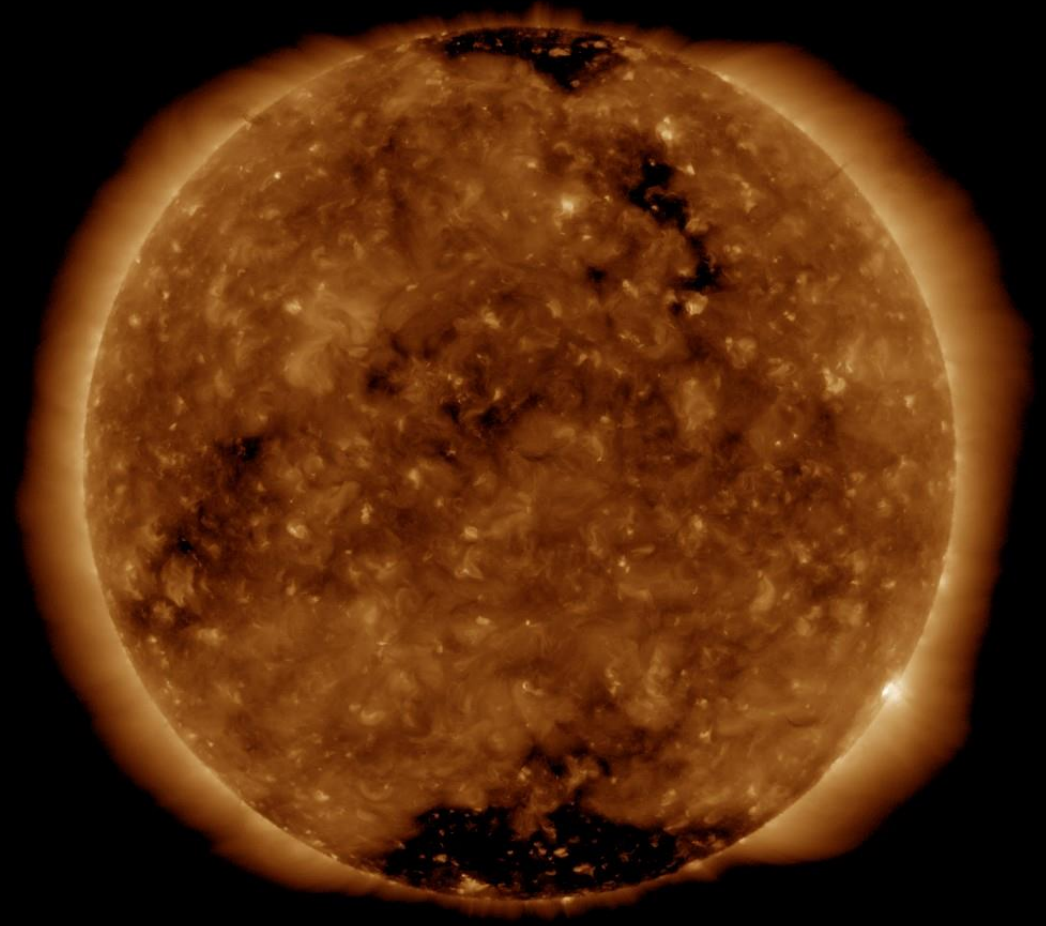
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2020-02-02



SDO/AIA 193 2020-02-02 12:10:41 UT

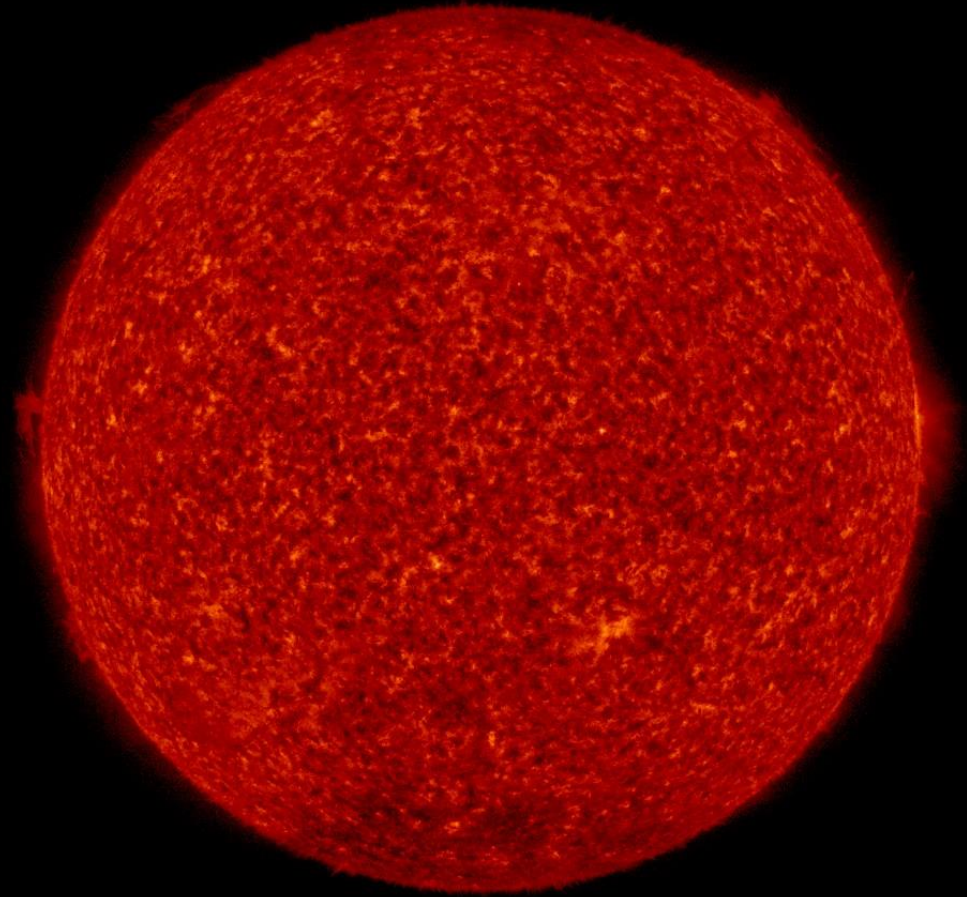
SDO/AIA 19.3 nm 2020-02-09



SDO/AIA 193 2020-02-09 12:11:17 UT

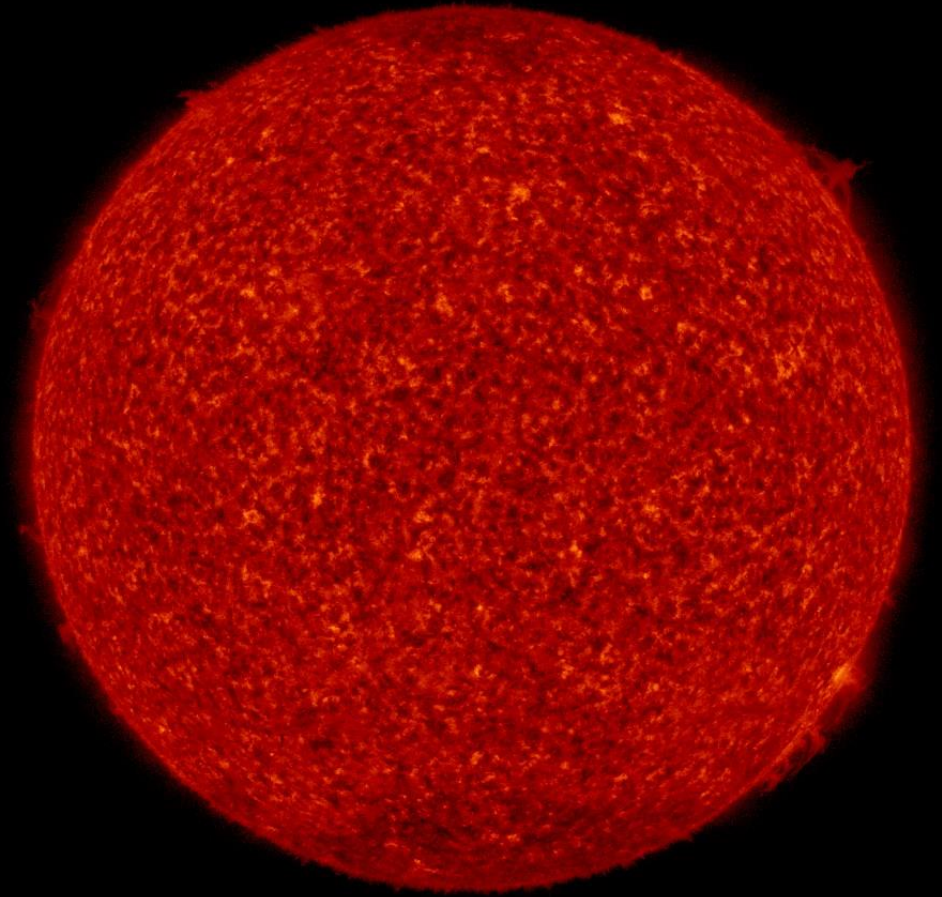
Solar active region & Filament

SDO/AIA 30.4 nm 2020-02-02



SDO/AIA 304 2020-02-02 12:14:30 UT

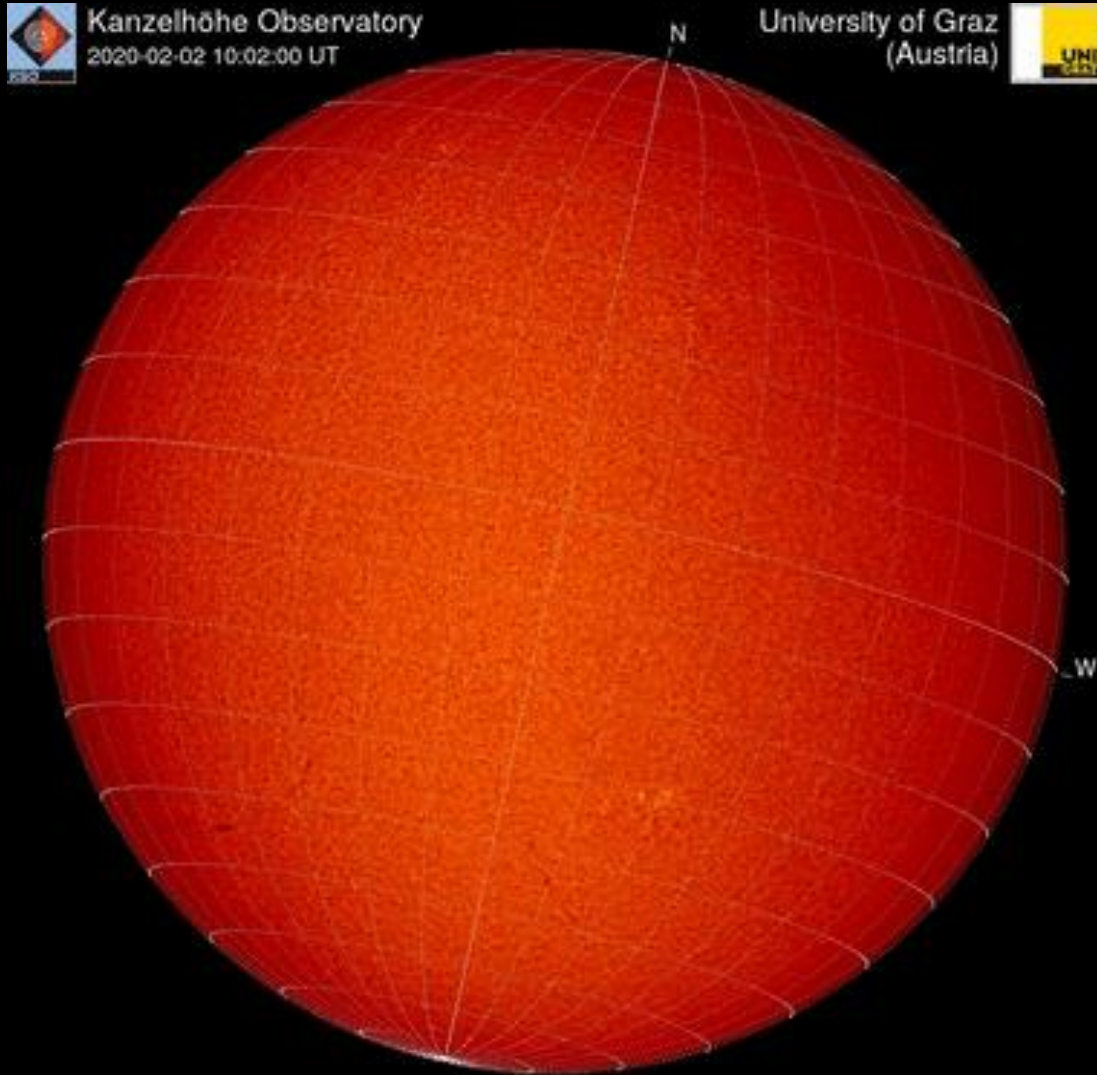
SDO/AIA 30.4 nm 2020-02-09



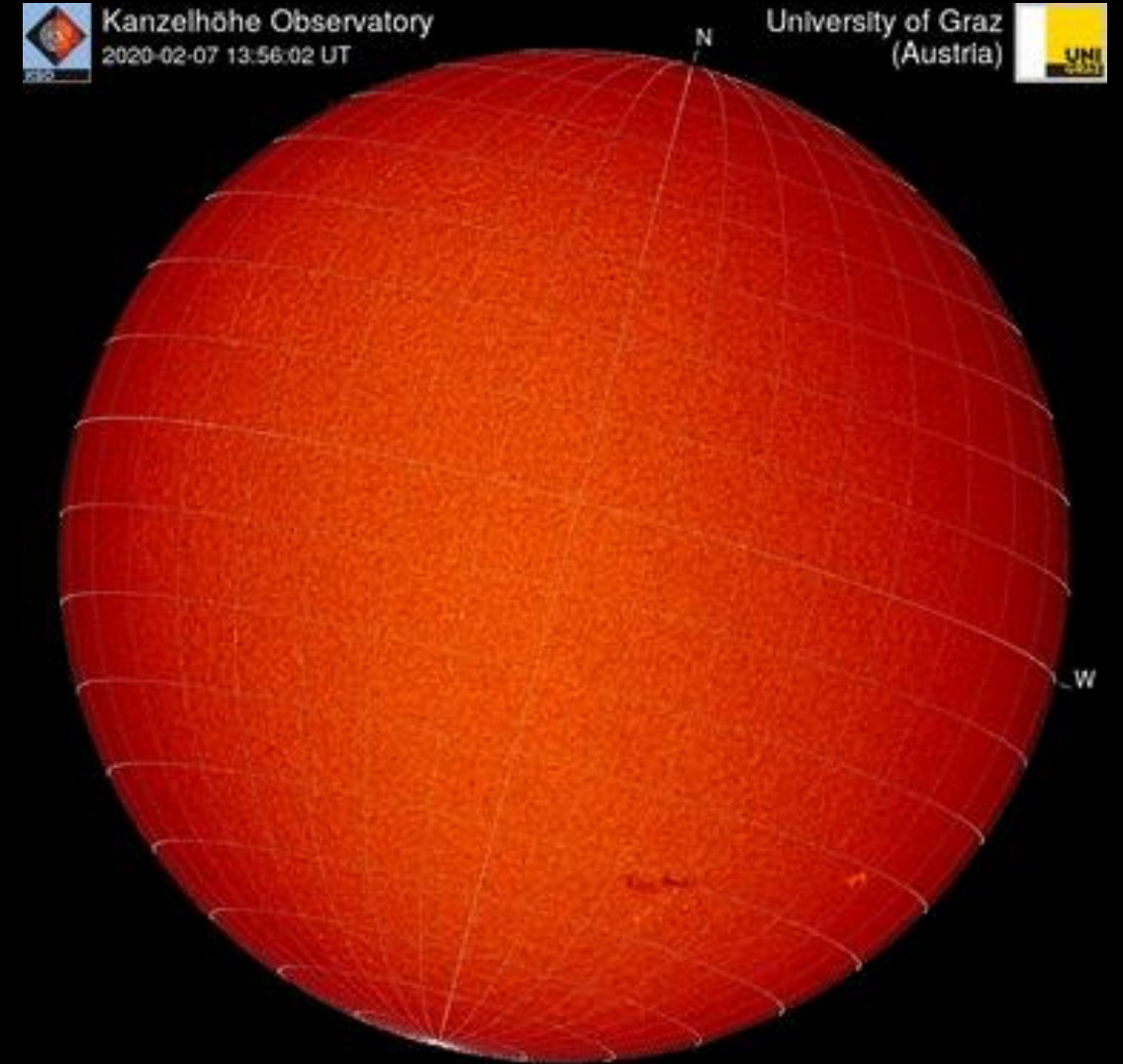
SDO/AIA 304 2020-02-09 12:13:42 UT

Filament & Filament eruption

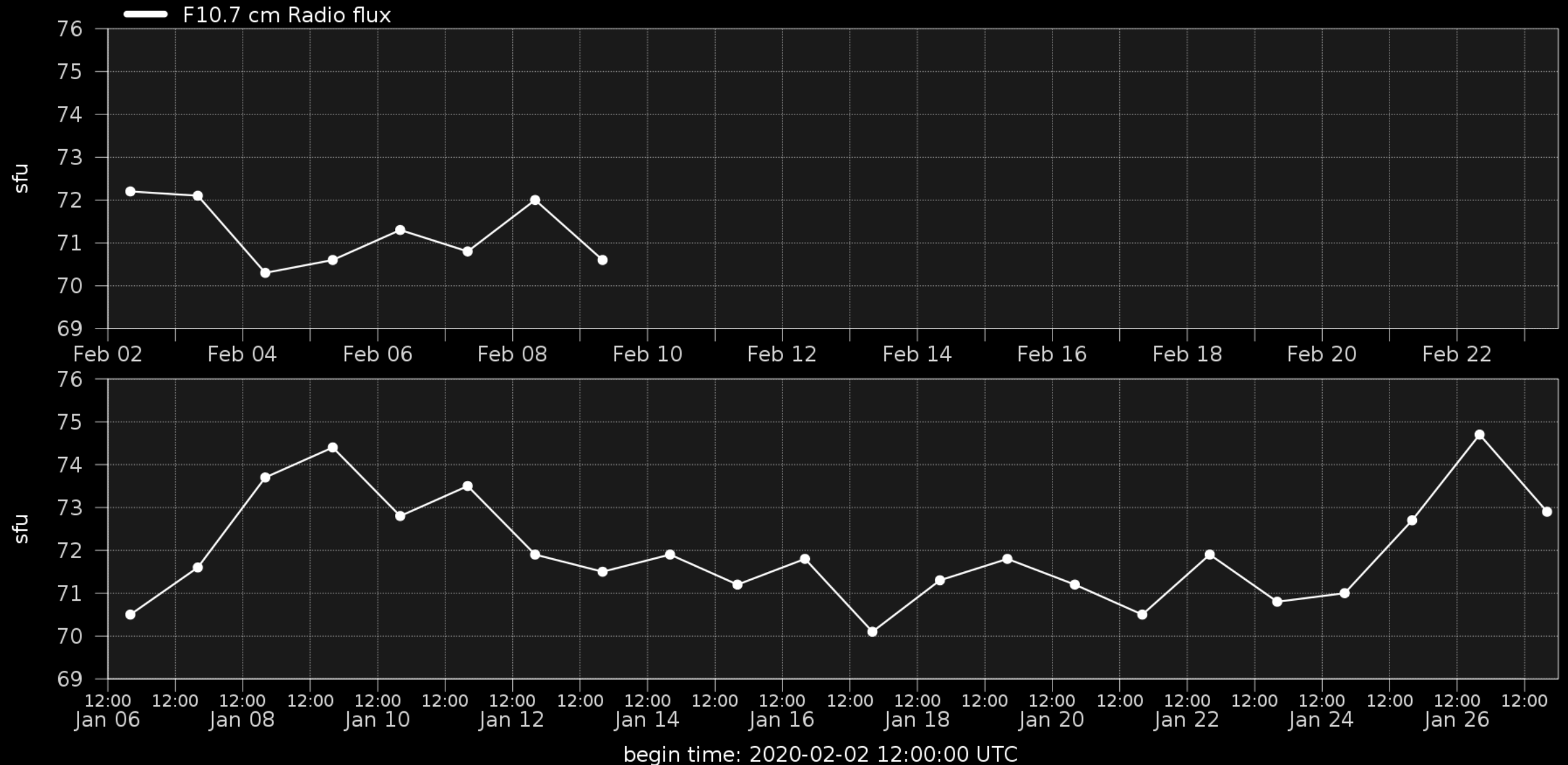
H-alpha 2020-02-02



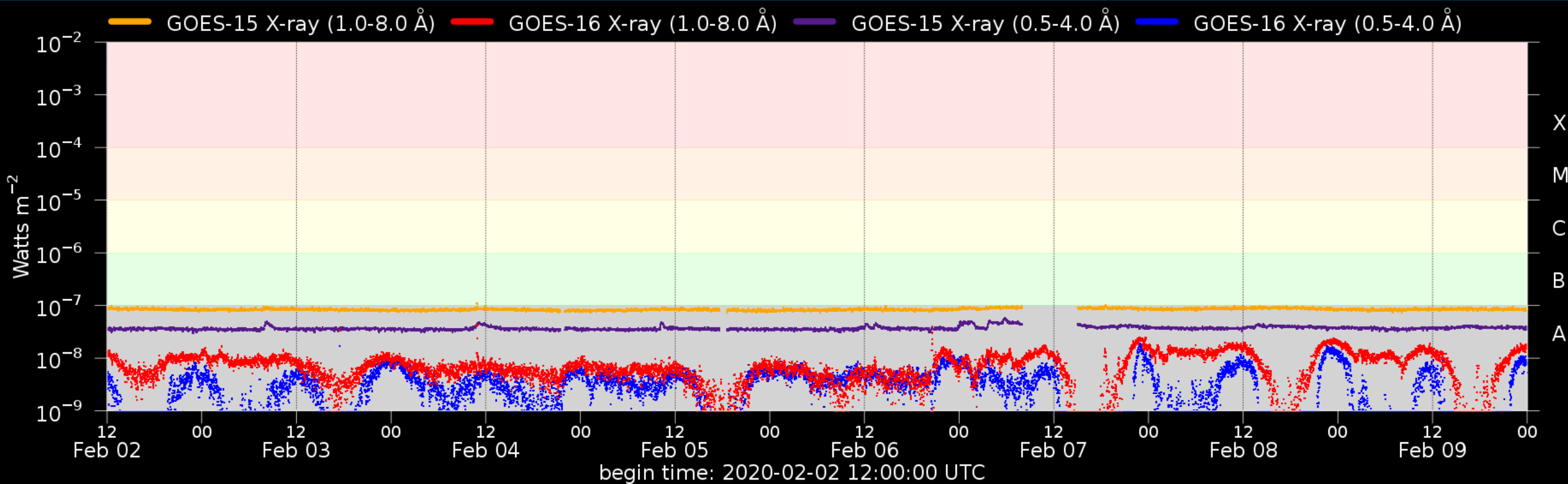
H-alpha 2020-02-09



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:

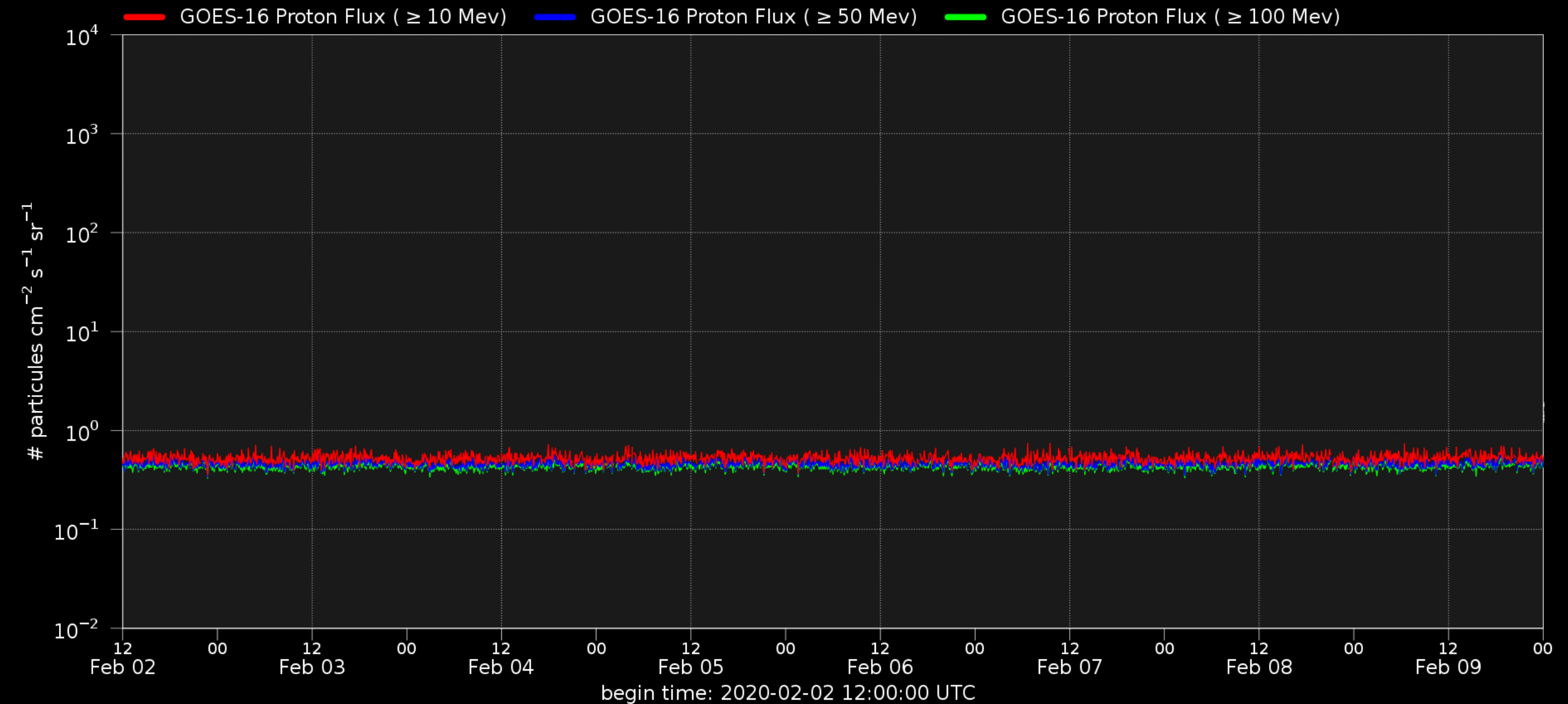
Issue date	2020-02-02	2020-02-03	2020-02-04	2020-02-05	2020-02-06	2020-02-07	2020-02-08	2020-02-09
Probability	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01
Observed	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00

Coronal Mass Ejection

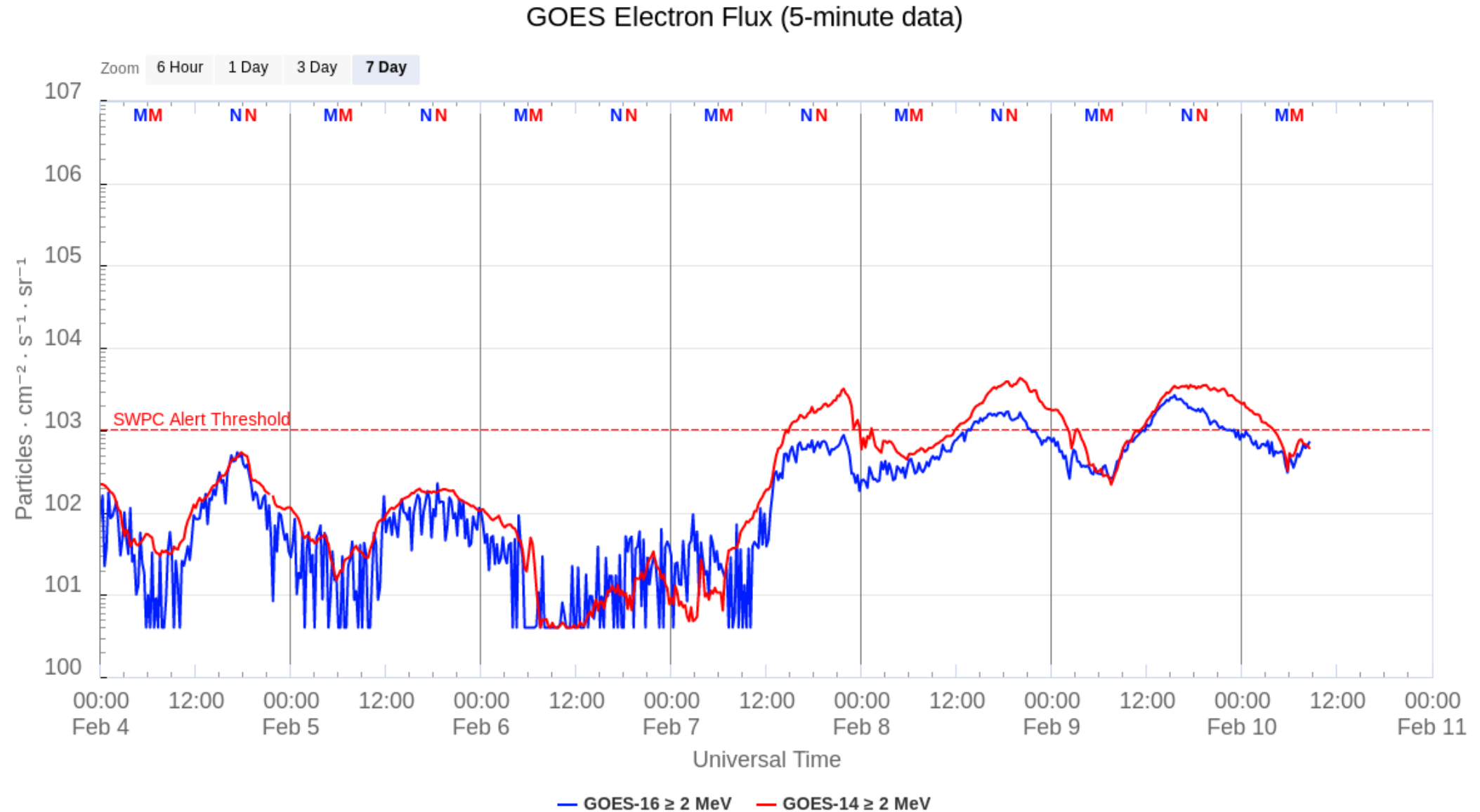
No significant CME's

01:30 02/09
22:00 02/08
19:00 02/08
16:12 02/08
13:25 02/08
08:24 02/08
05:42 02/08
03:24 02/08
00:00 02/08
20:24 02/07
17:36 02/07
14:36 02/07
11:30 02/07
08:48 02/07
05:00 02/07
00:36 02/07
21:36 02/06
18:24 02/06
15:48 02/06
12:24 02/06
10:00 02/06
07:06 02/06
04:36 02/06
01:36 02/06
21:54 02/05
18:48 02/05
16:06 02/05
12:48 02/05
10:00 02/05
06:36 02/05
04:00 02/05
00:36 02/05
21:48 02/04
18:36 02/04
16:00 02/04
12:36 02/04
10:00 02/04
07:00 02/04
04:24 02/04
01:48 02/04
22:36 02/03
18:48 02/03
15:24 02/03
12:24 02/03
09:30 02/03

Solar proton flux



Solar electron flux



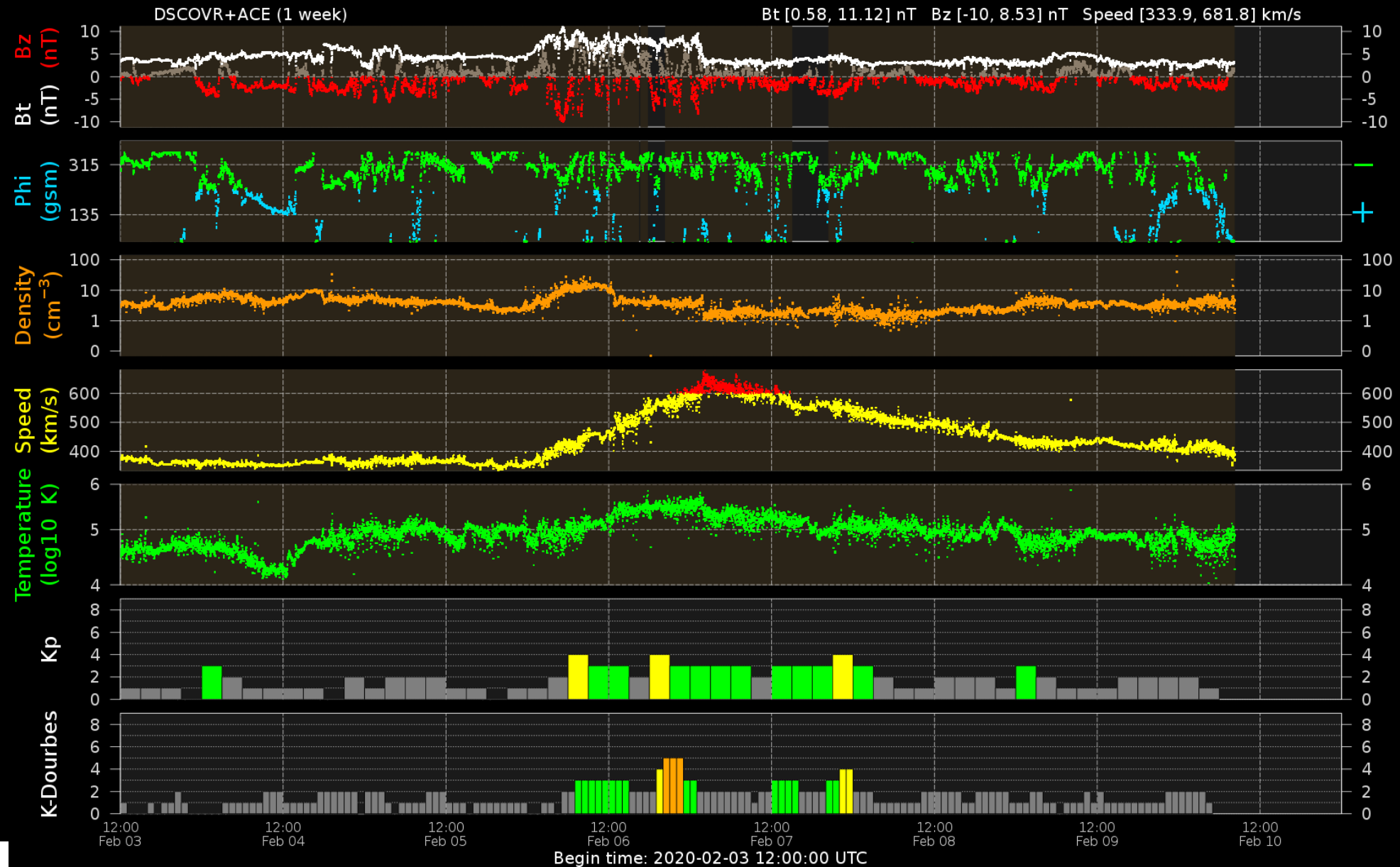
Updated 2020-02-10 08:30 UTC

Solar Wind and Geomagnetic Activity

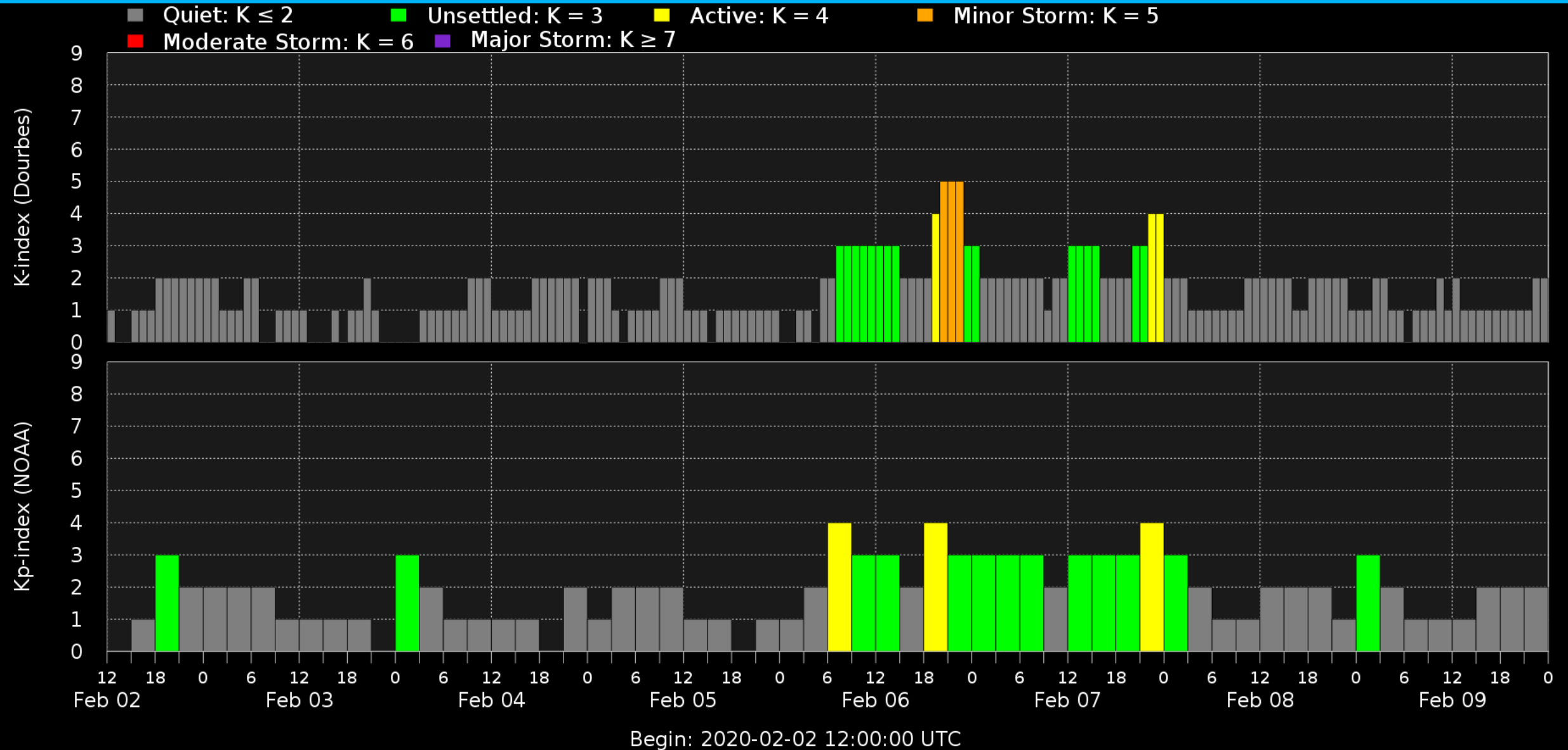


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Solar wind parameters & K-index



Geomagnetic activity (K-indexes)



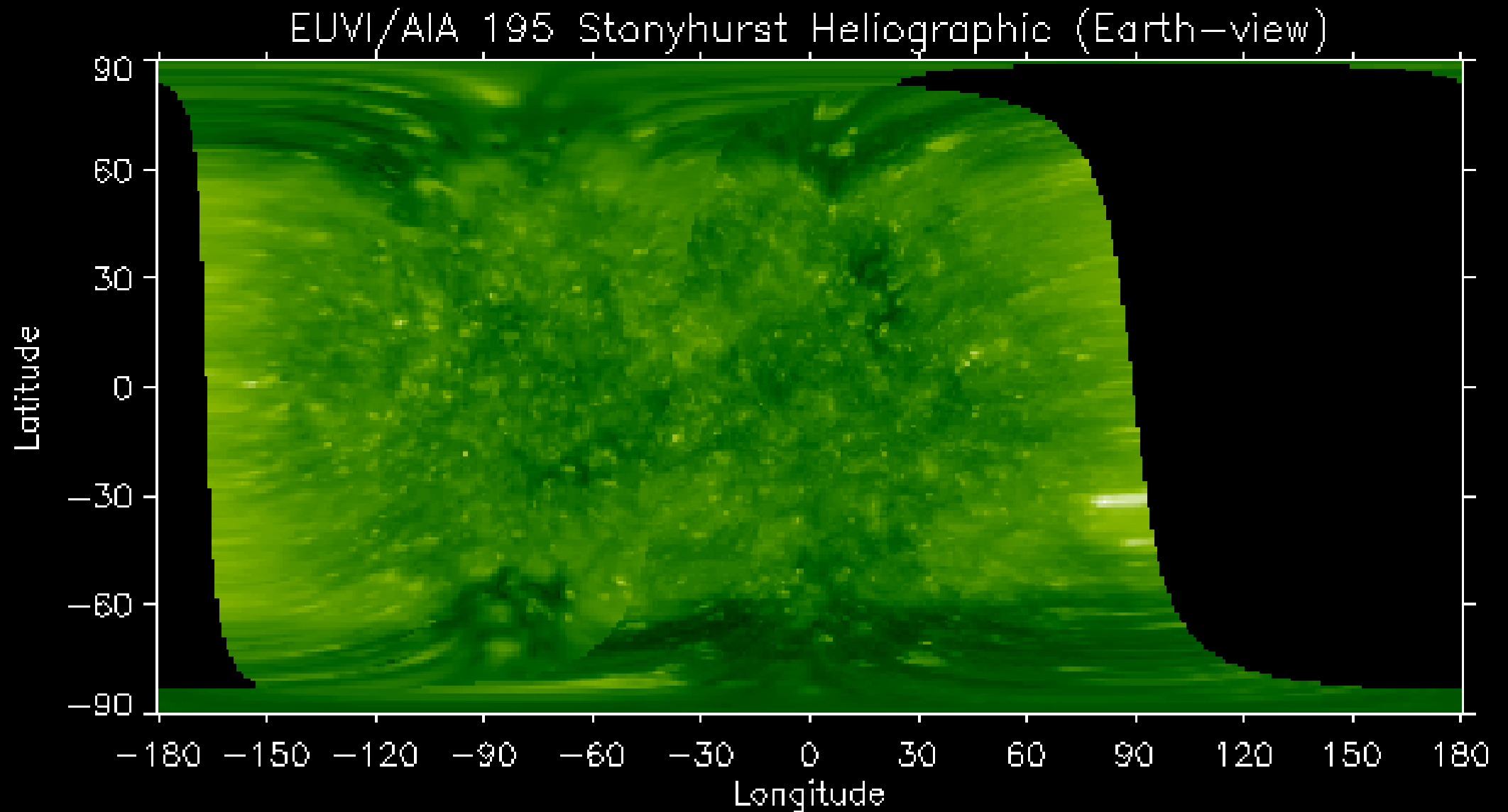
Outlook



Royal Observatory
of Belgium

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Outlook: Solar activity



Outlook: CH+

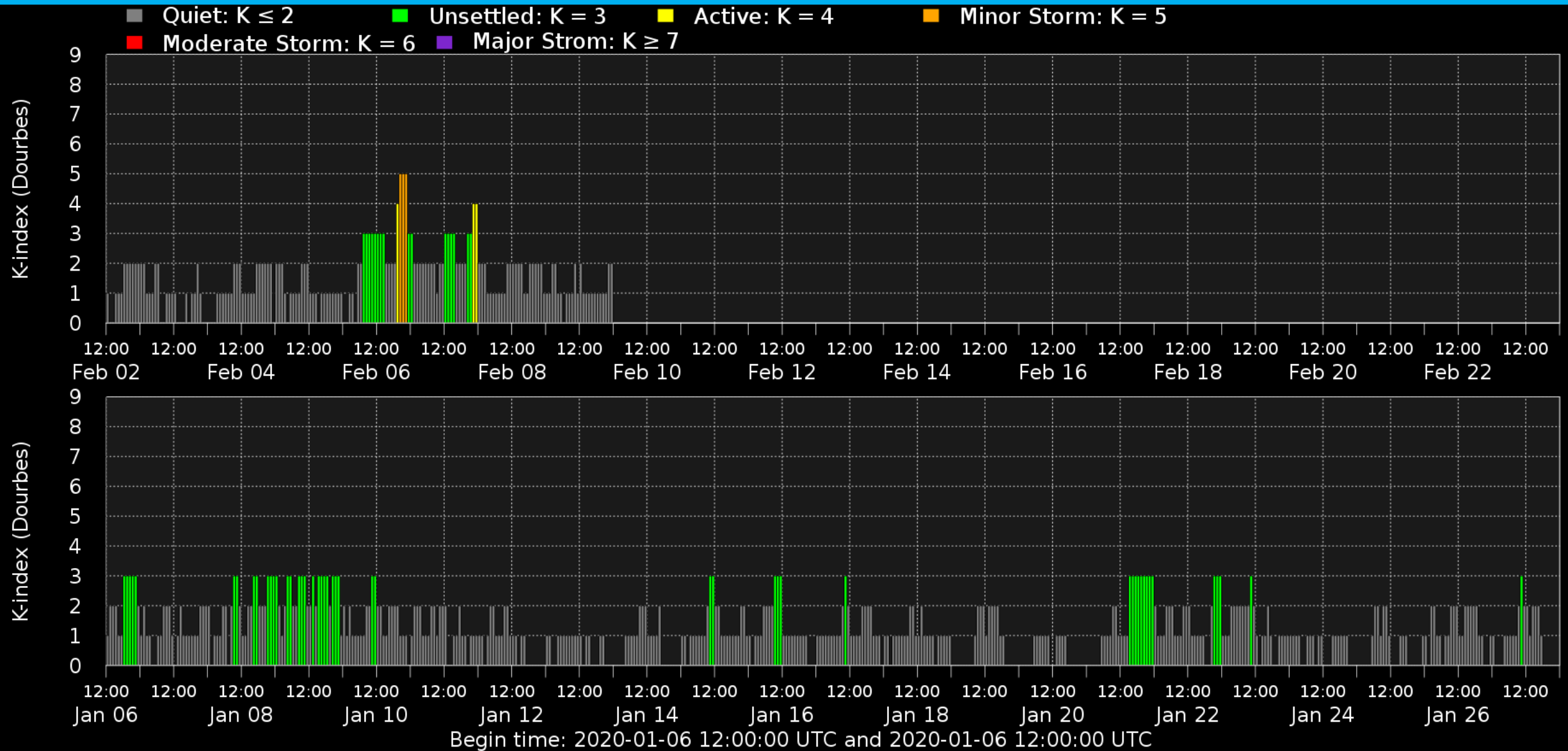


SDO/AIA 193 2020-02-07 12:11:05 UT

Outlook: Solar wind



Outlook: Geomagnetic activity



SIDC Space Weather Briefing

See you at our next briefing!

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