

SIDC Space Weather Briefing

01 March 2020 - 08 March 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 2020-03-01 12:00 UT to 2020-03-08 12:00 UT

Active regions	On new active region AR-2758 (Beta-class)
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	No filament eruption
CMEs	No obvious Earth directed CME
Proton Events	No proton Event

Solar wind and geomagnetic conditions from 2020-03-01 12:00 UT to 2020-03-08 12:00 UT

Coronal Holes	South polar coronal hole
ICME	No ICME detected
SW Conditions	Mostly slow wind condition with minor enhancements
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 3

All Quiet Alert: ON for the de WEEK

Solar Activity

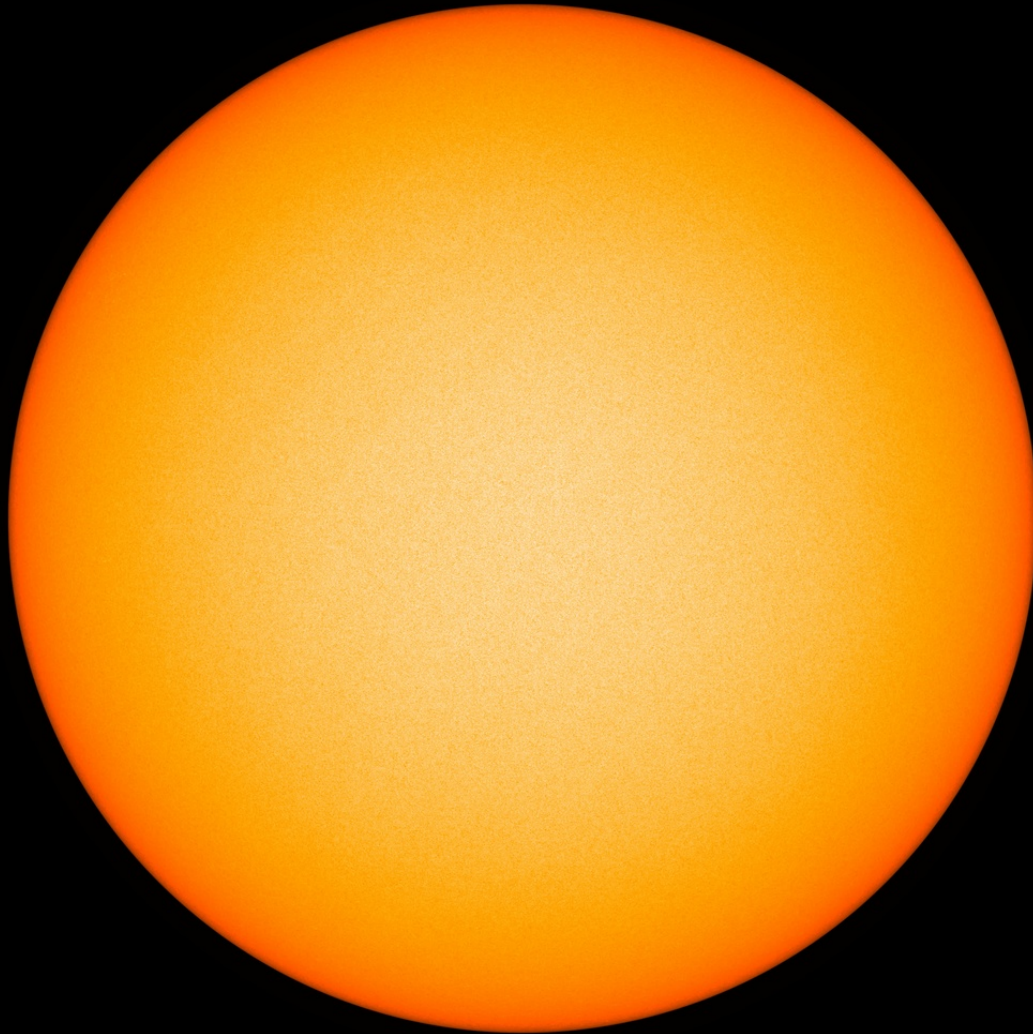


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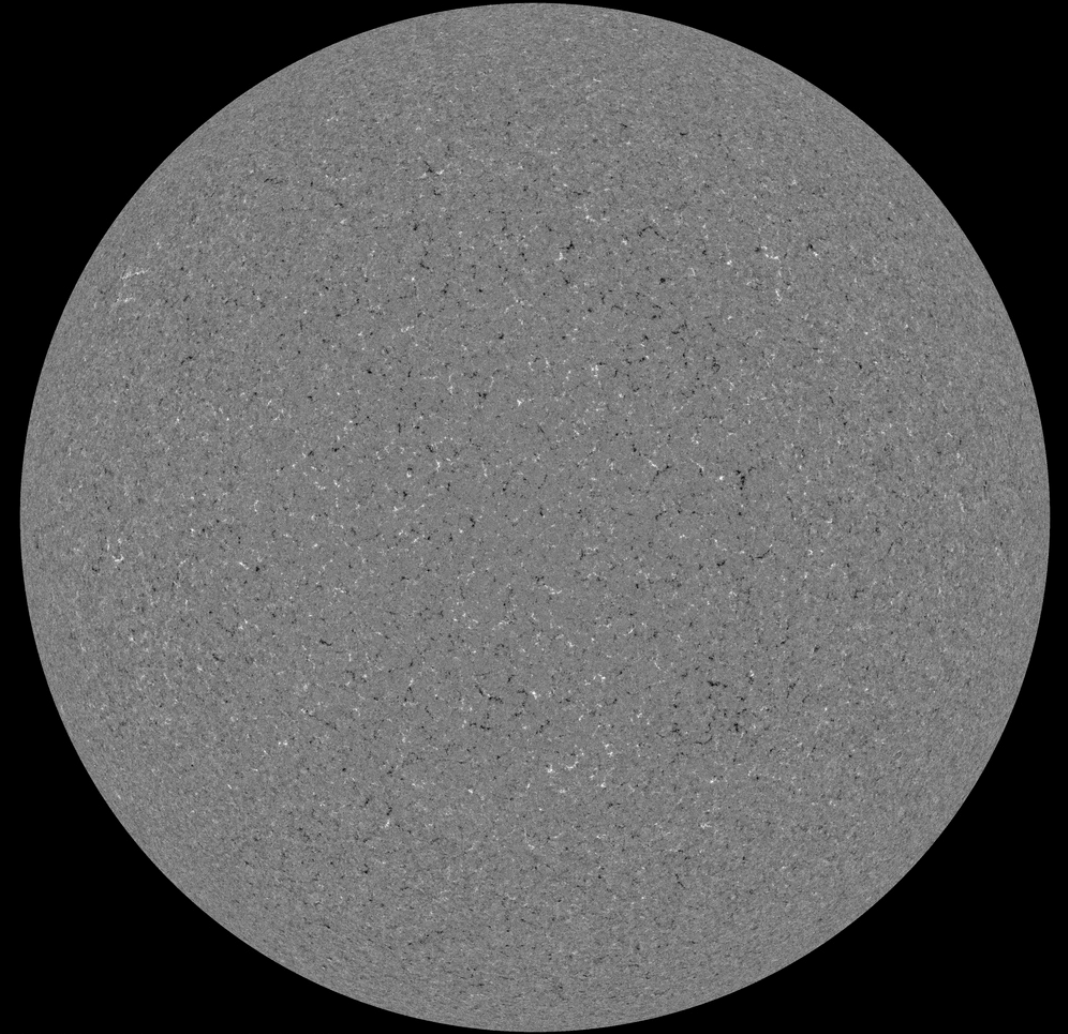
Solar active region - start of the week

SDO/HMI White Light 2020-03-01



SDO/HMI Quick-Look Continuum: 20200301_114500

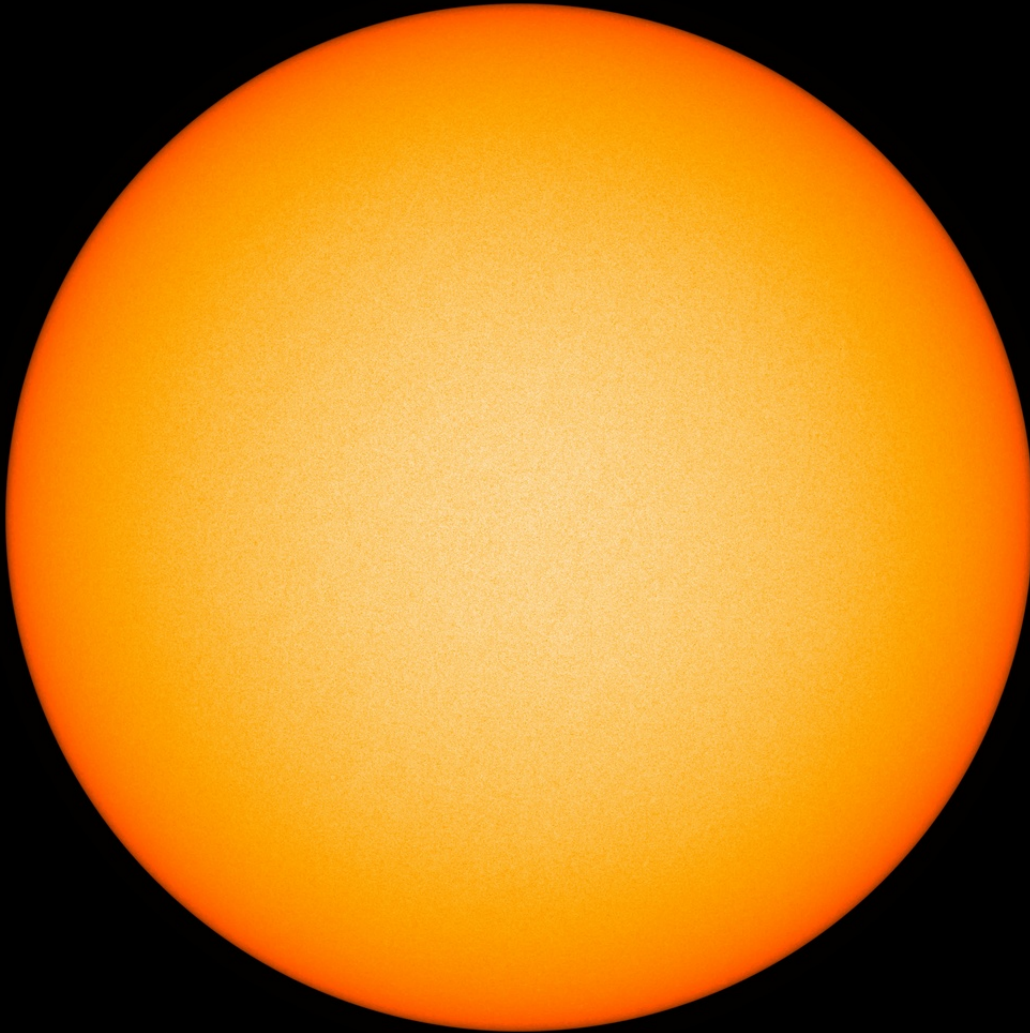
SDO/HMI Magnetogram 2020-03-01



SDO/HMI Quick-Look Magnetogram: 20200301_114500

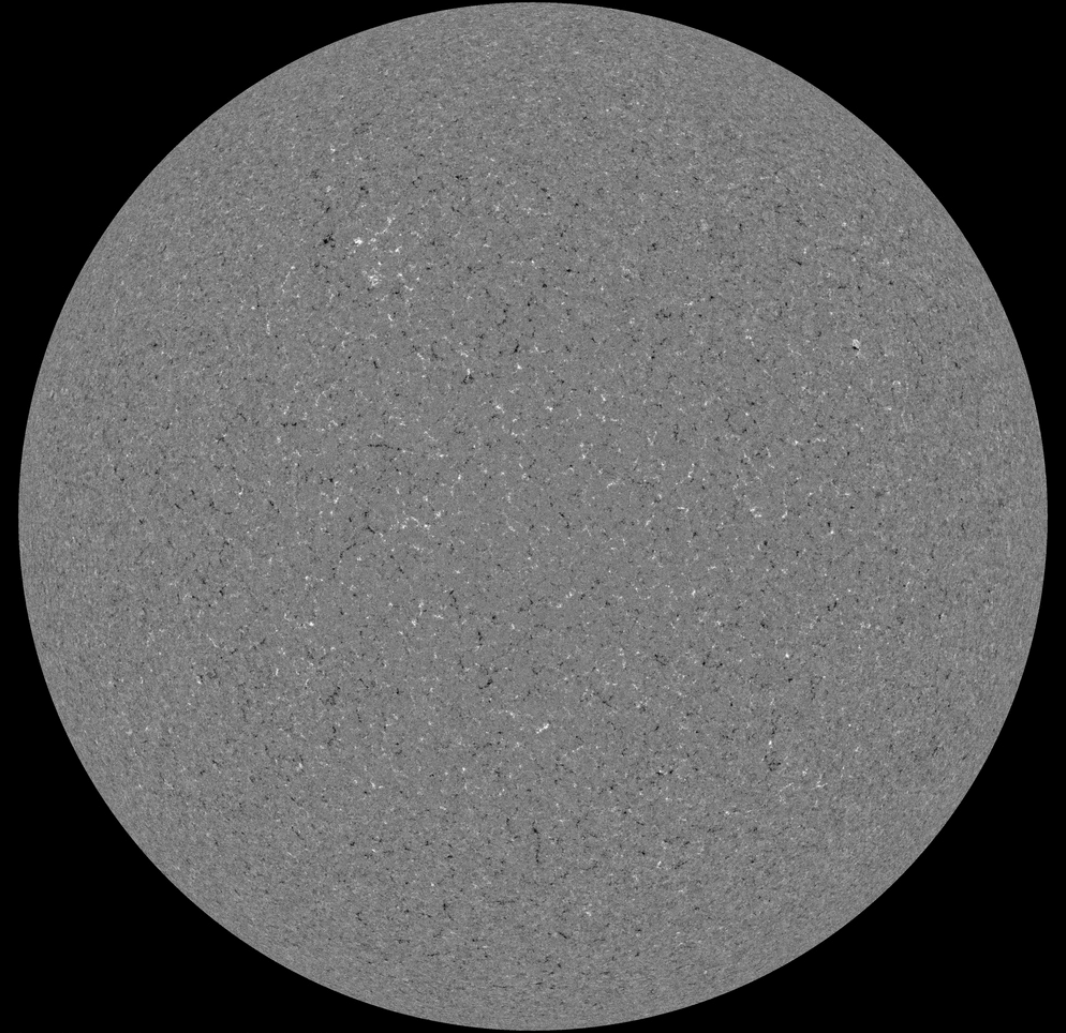
Solar active region - middle of the week

SDO/HMI White Light 2020-03-04



SDO/HMI Quick-Look Continuum: 20200304_114500

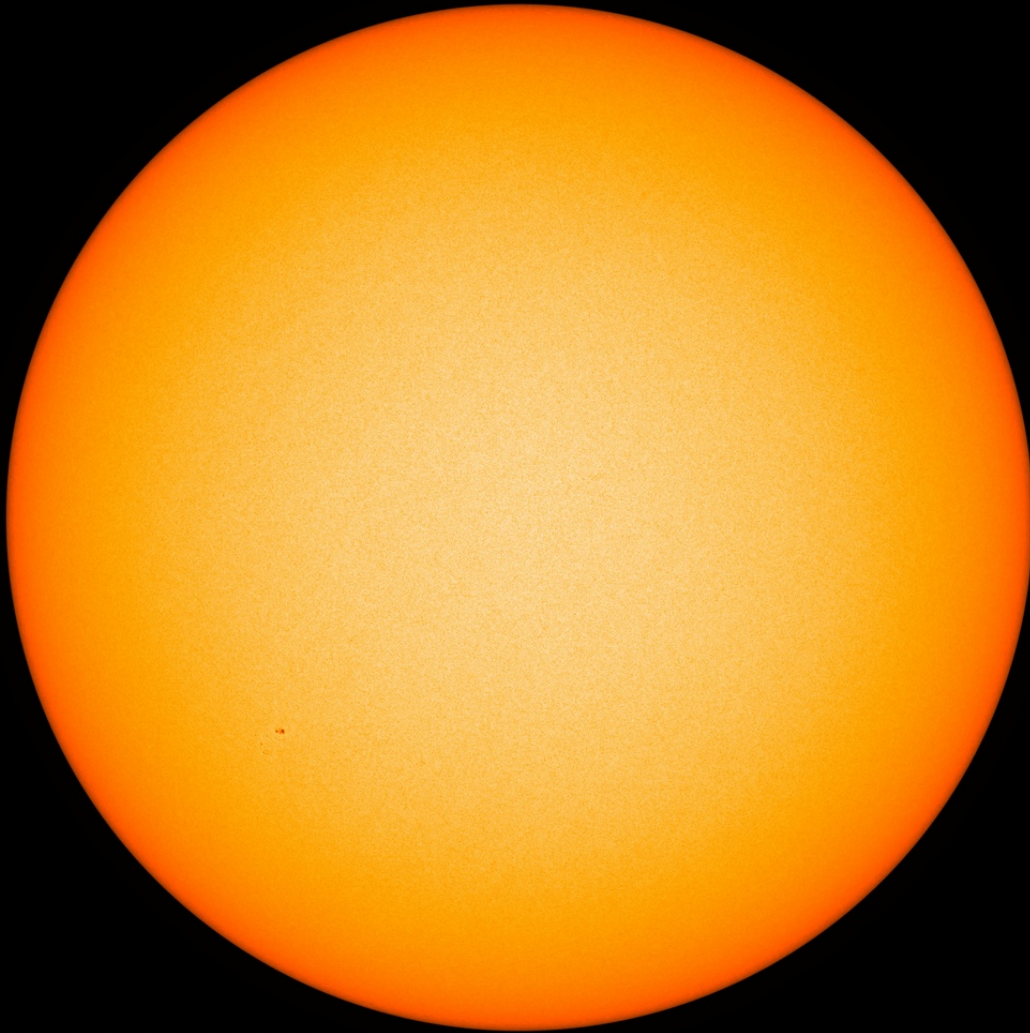
SDO/HMI Magnetogram 2020-03-04



SDO/HMI Quick-Look Magnetogram: 20200304_114500

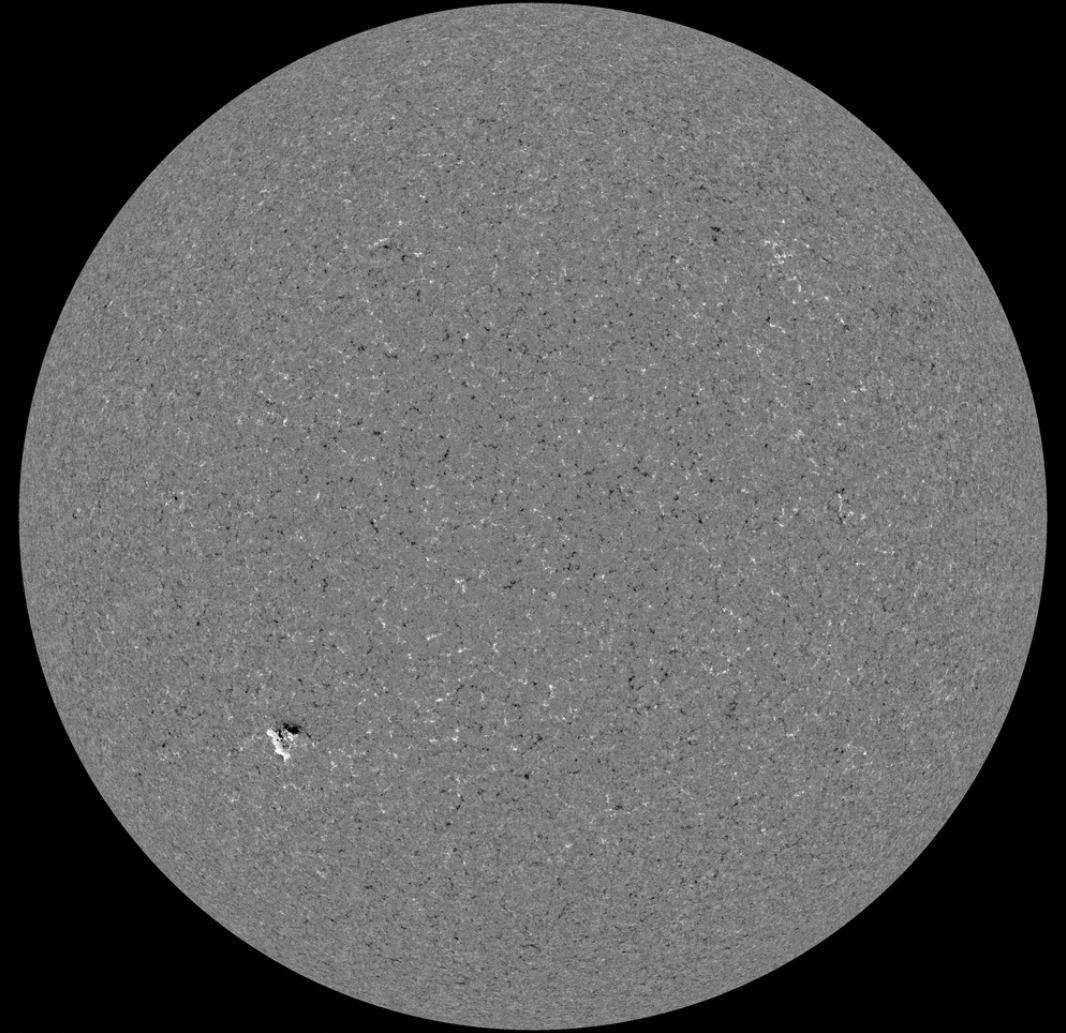
Solar active region - end of the week

SDO/HMI White Light 2020-03-08



SDO/HMI Quick-Look Continuum: 20200308_114500

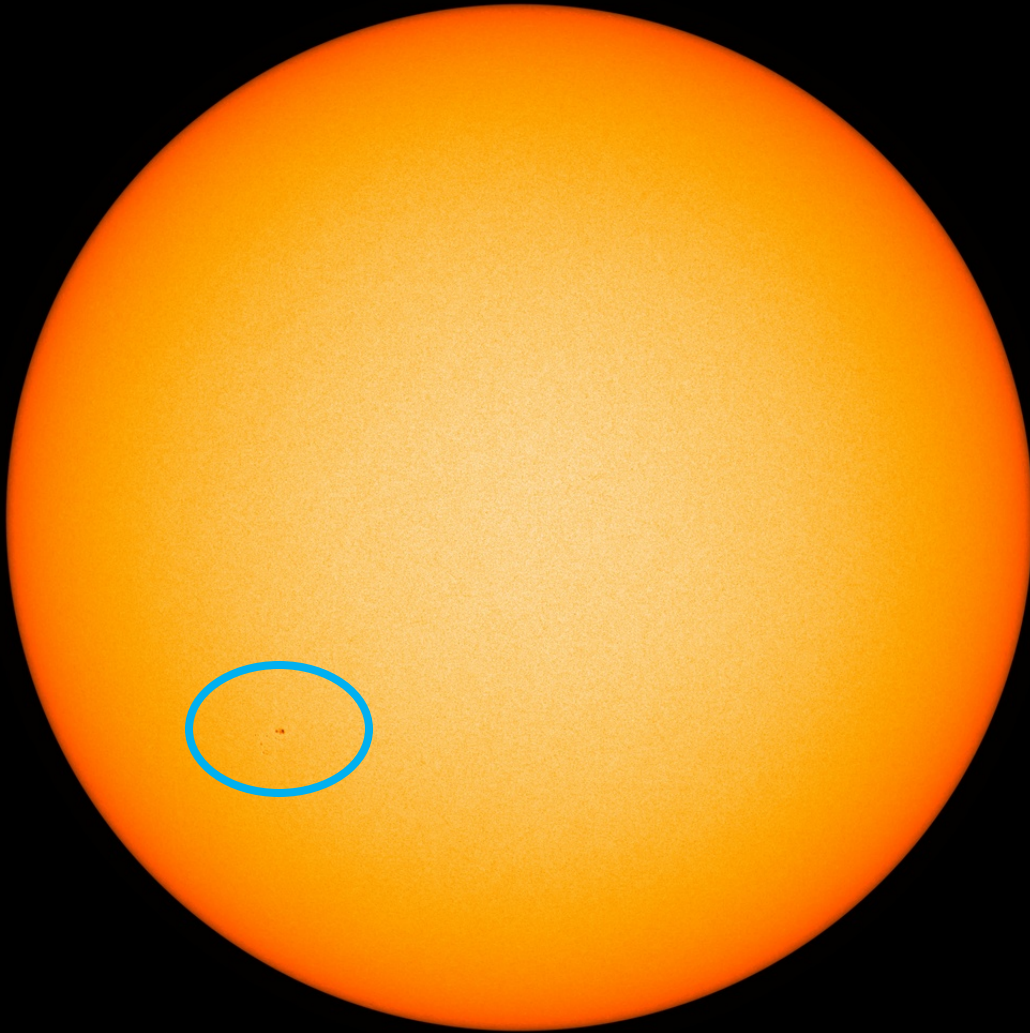
SDO/HMI Magnetogram 2020-03-08



SDO/HMI Quick-Look Magnetogram: 20200308_114500

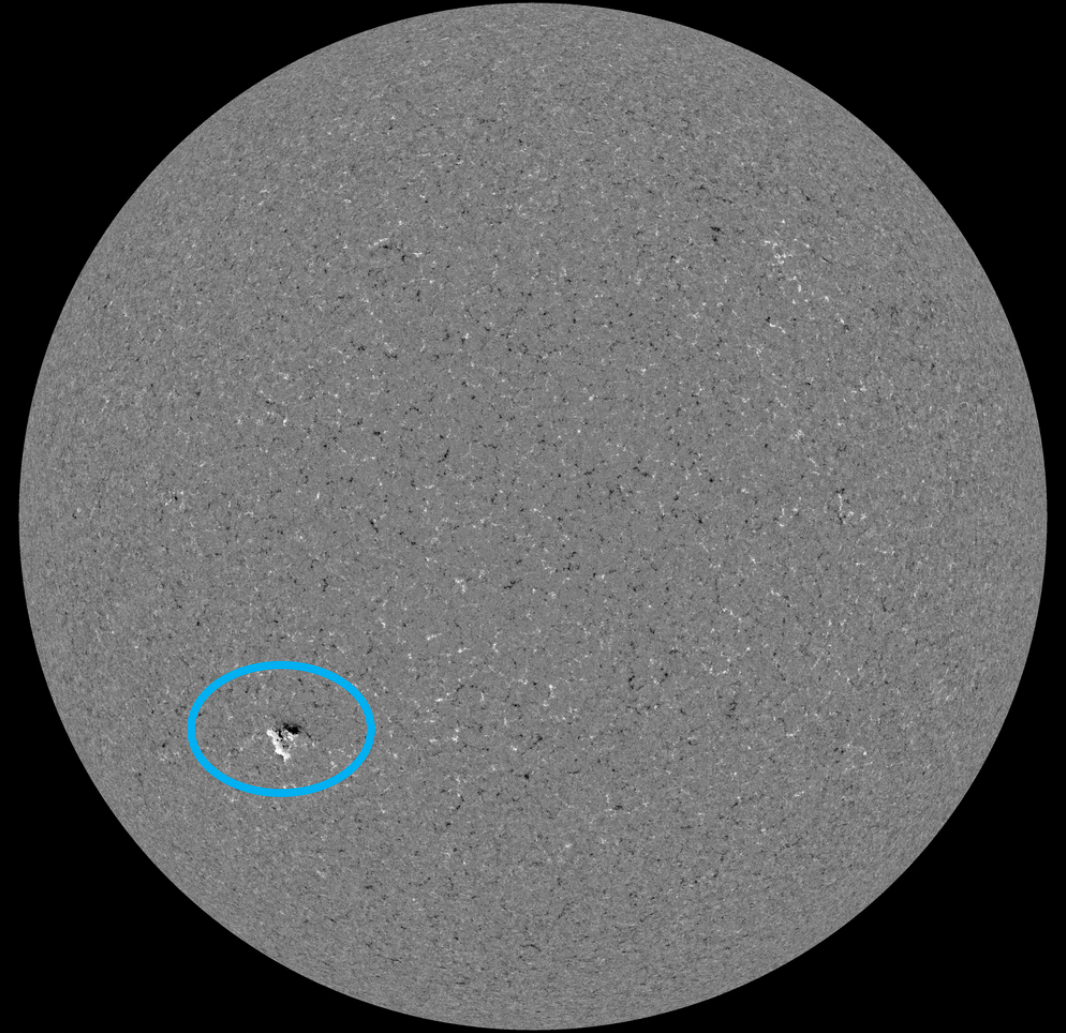
Solar active region - end of the week

SDO/HMI White Light 2020-03-08



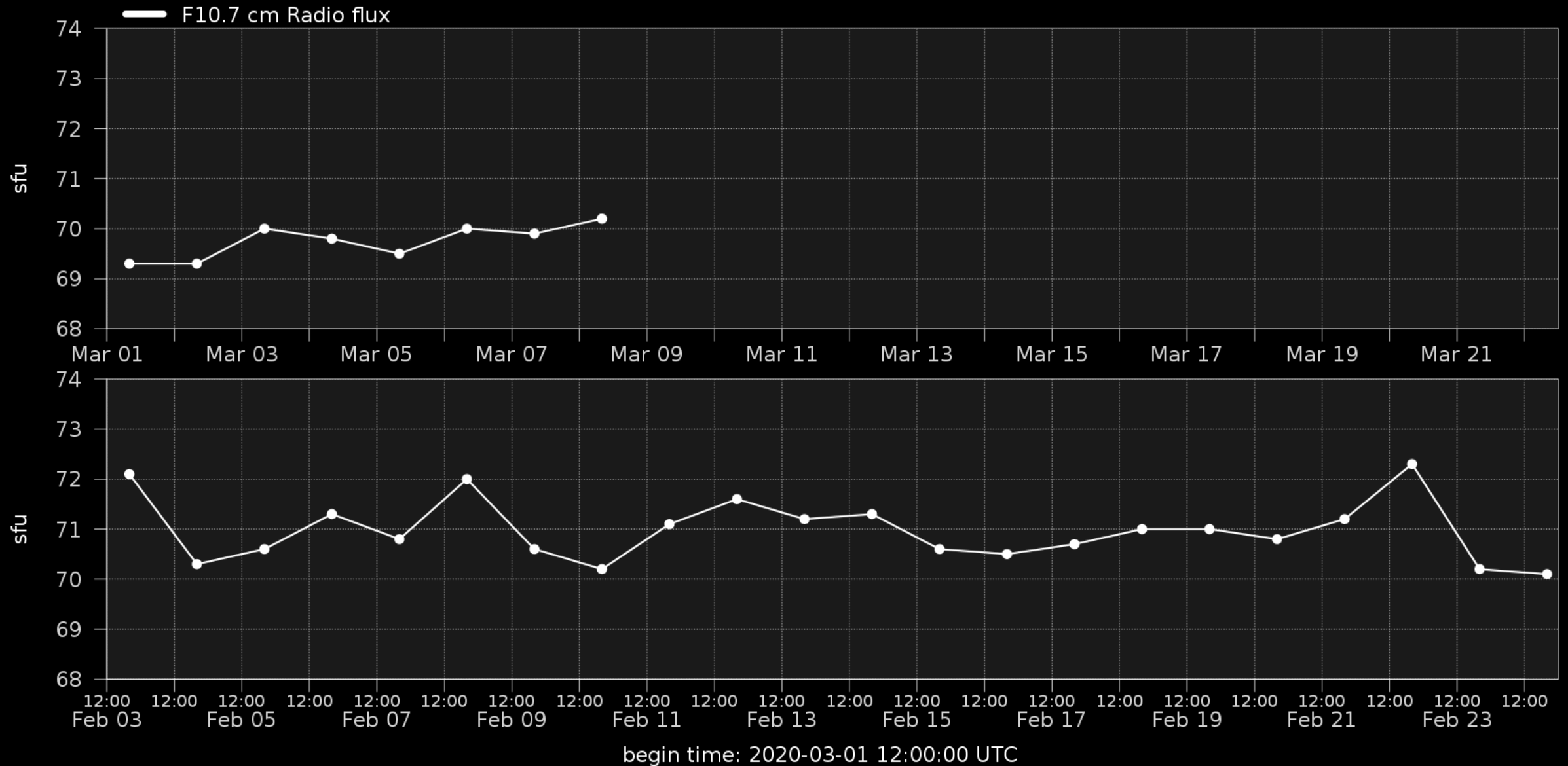
SDO/HMI Quick-Look Continuum: 20200308_114500

SDO/HMI Magnetogram 2020-03-08

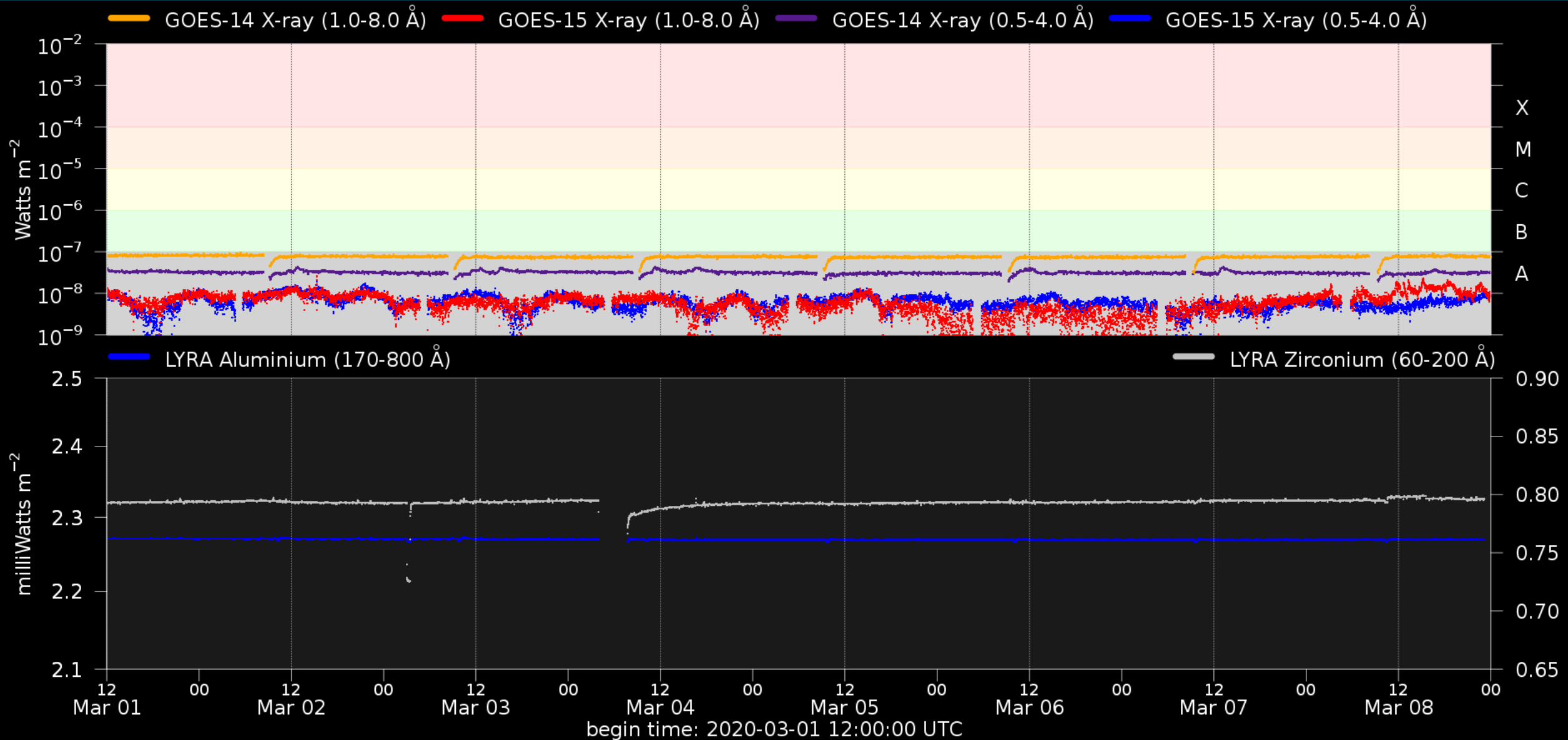


SDO/HMI Quick-Look Magnetogram: 20200308_114500

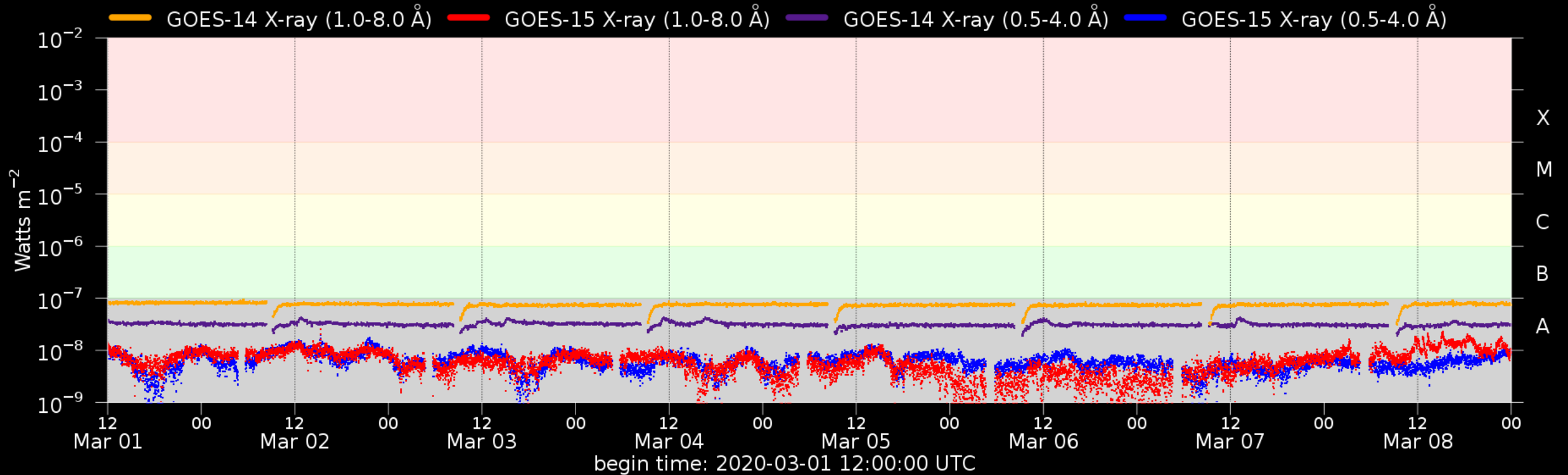
Solar F10.7cm radio flux



Solar X-Ray and UV flux



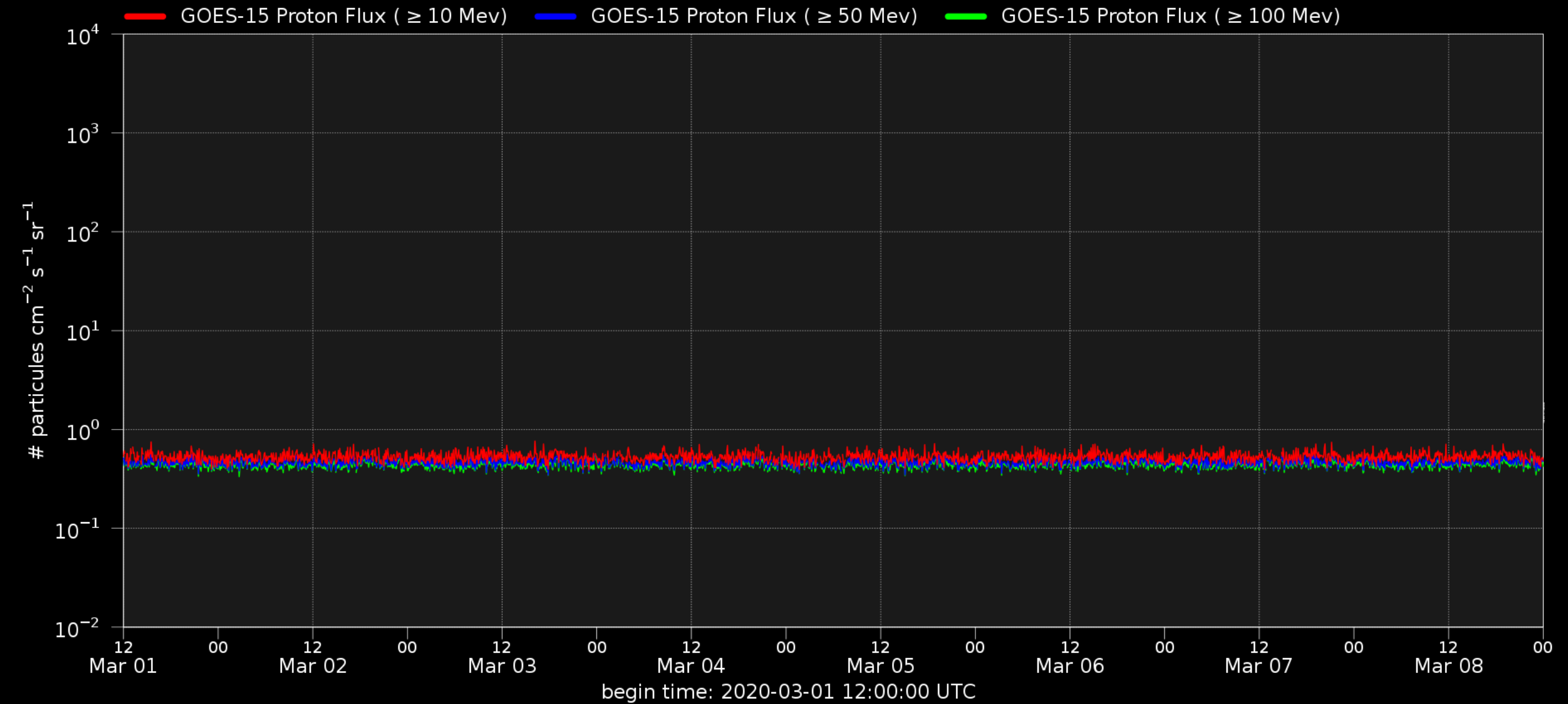
Flaring activity



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

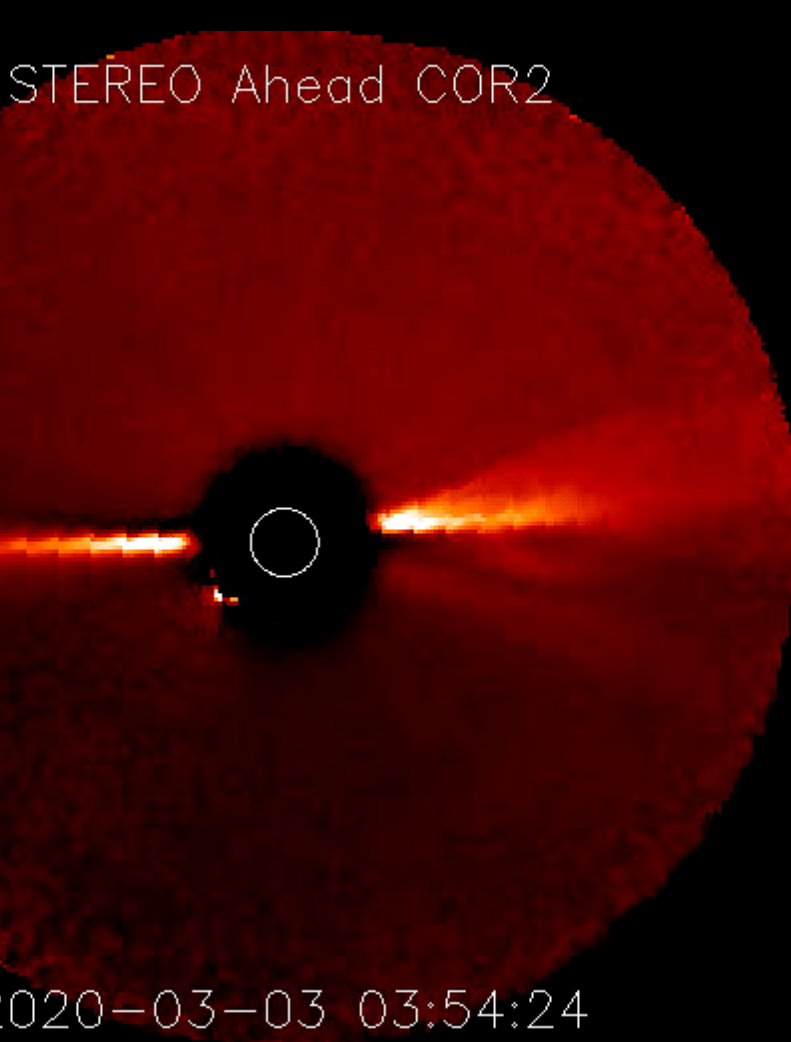
Issue date	2020-03-01	2020-03-02	2020-03-03	2020-03-04	2020-03-05	2020-03-06	2020-03-07	2020-03-08
Probability	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 20 01 01
Observed	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00

Solar proton flux

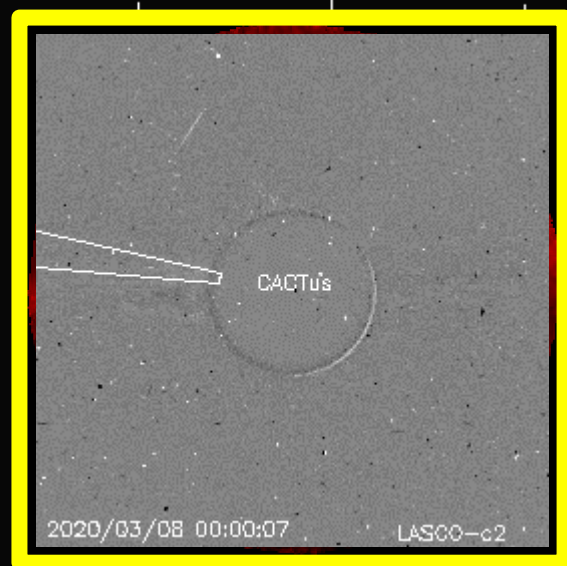
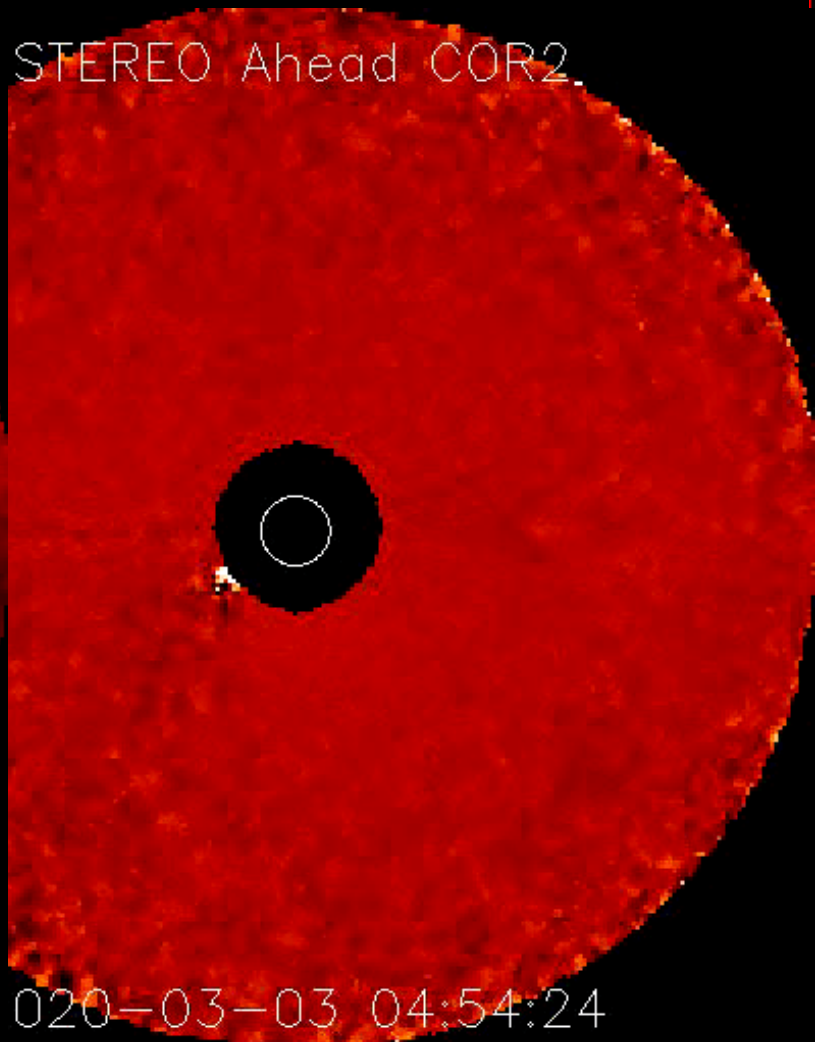


Coronal Mass Ejection

STEREO Ahead COR2



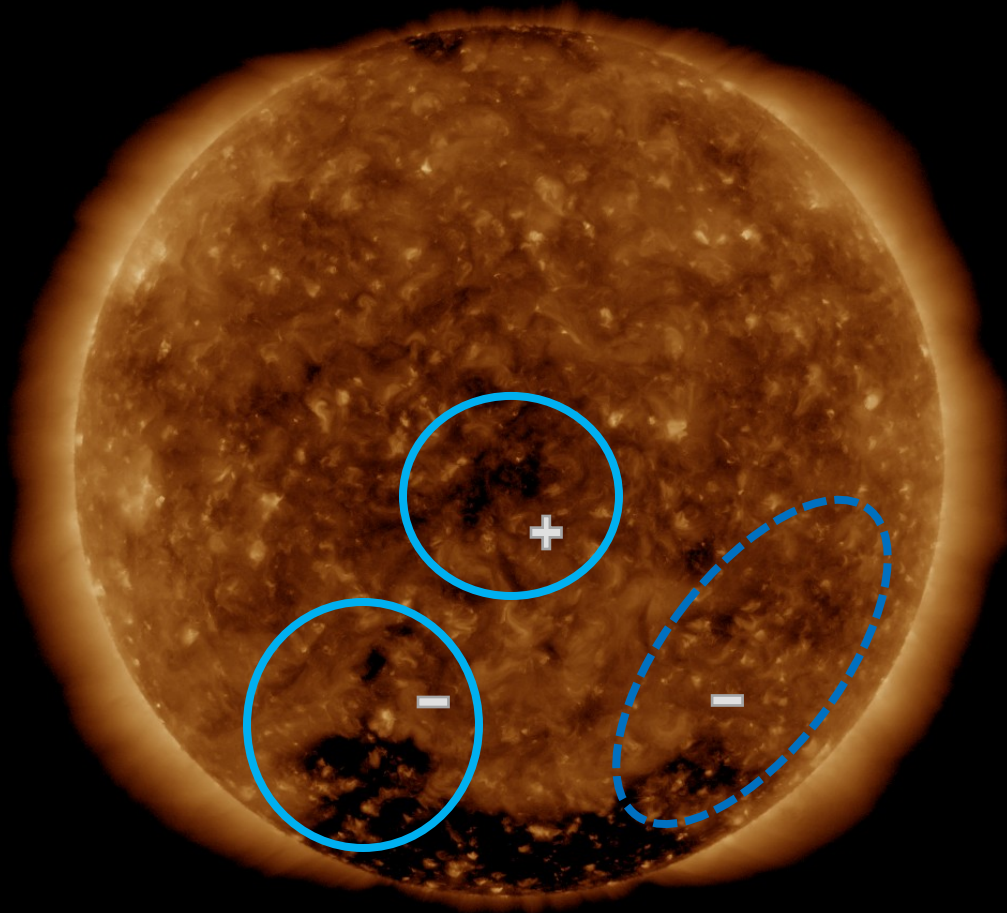
STEREO Ahead COR2



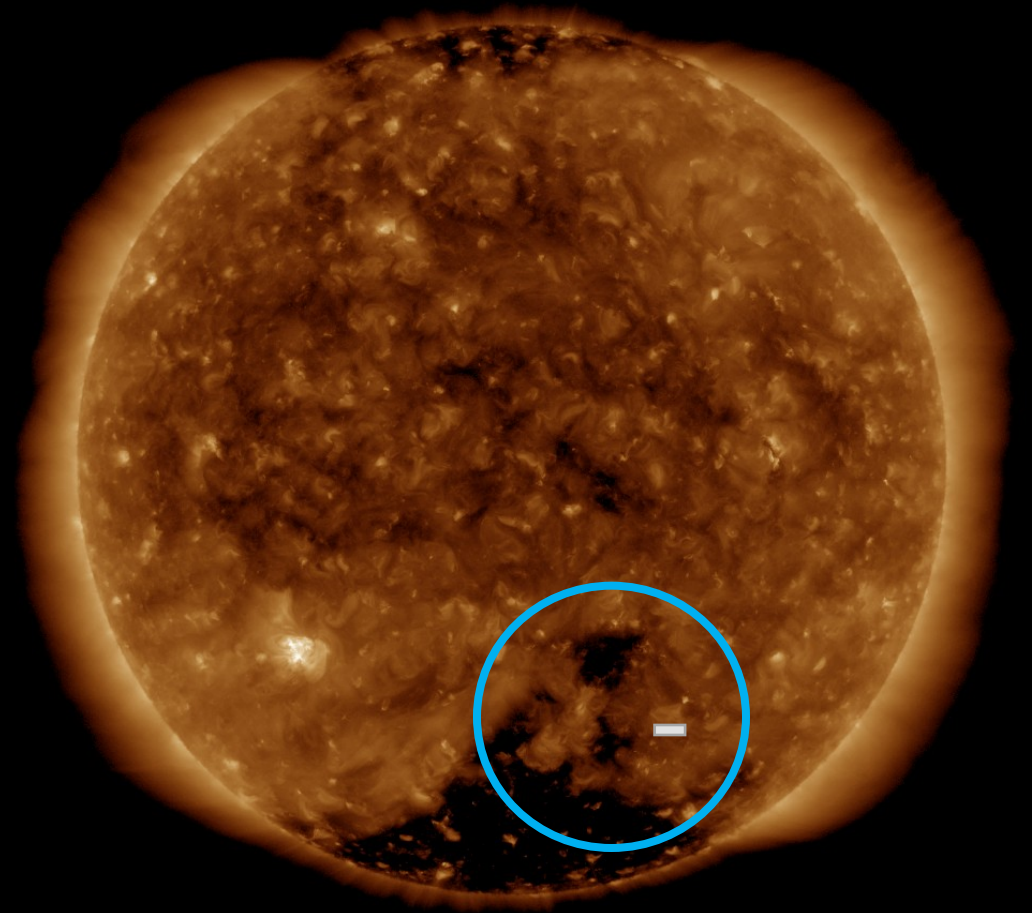
03:12	03/08
00:00	03/08
20:24	03/07
17:48	03/07
14:36	03/07
11:00	03/07
08:00	03/07
05:12	03/07
02:12	03/07
22:24	03/06
19:12	03/06
16:24	03/06
13:36	03/06
10:30	03/06
07:12	03/06
03:12	03/06
22:36	03/05
19:00	03/05
15:24	03/05
11:48	03/05
09:12	03/05
06:12	03/05
03:36	03/05
00:12	03/05
20:36	03/04
18:00	03/04
14:42	03/04
11:36	03/04
08:48	03/04
05:36	03/04
02:48	03/04
23:12	03/03
20:12	03/03
16:12	03/03
12:36	03/03
10:00	03/03
06:36	03/03
04:00	03/03
00:36	03/03
20:36	03/02
17:48	03/02
15:12	03/02
11:54	03/02
09:24	03/02
06:12	03/02

Coronal hole

SDO/AIA 19.3 nm 2020-03-01



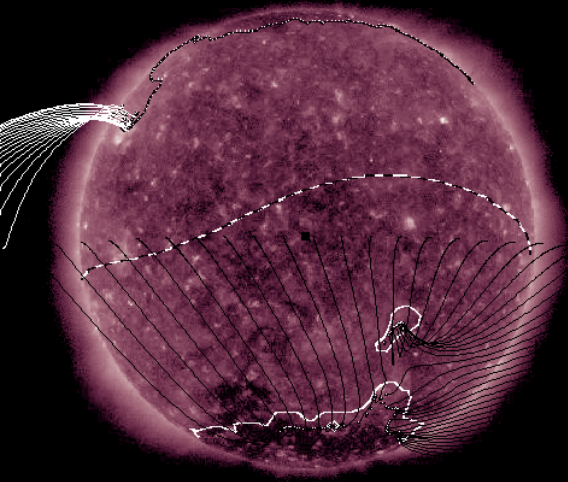
SDO/AIA 19.3 nm 2020-03-08



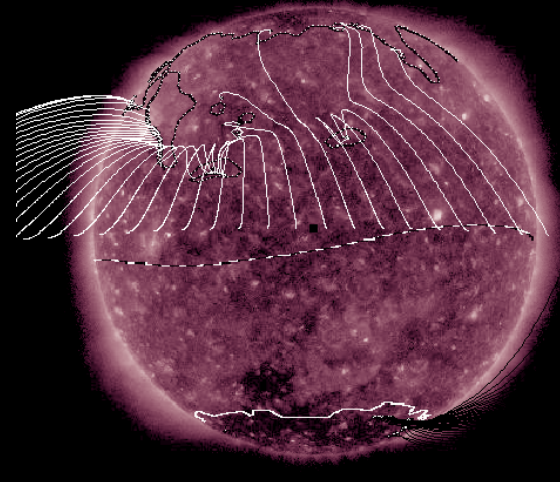
SDO/AIA 193 2020-03-01 12:10:41 UT

SDO/AIA 193 2020-03-08 12:11:05 UT

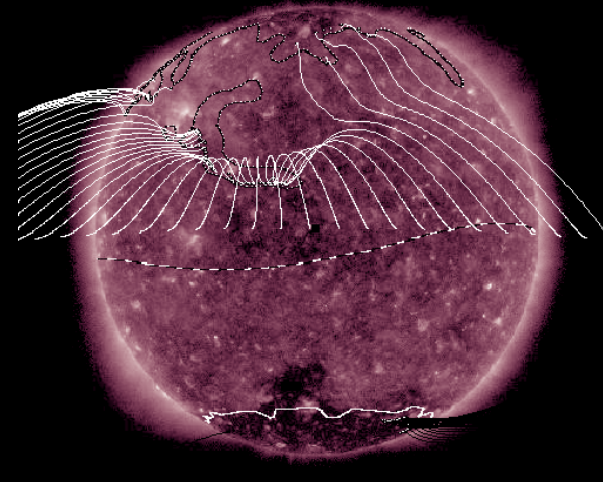
Coronal hole



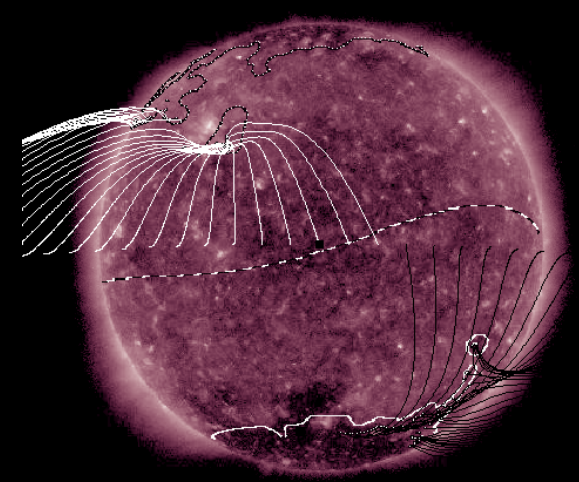
Model: 2020/03/02 00:03:28
AIA: 2020/03/01 19:11:11



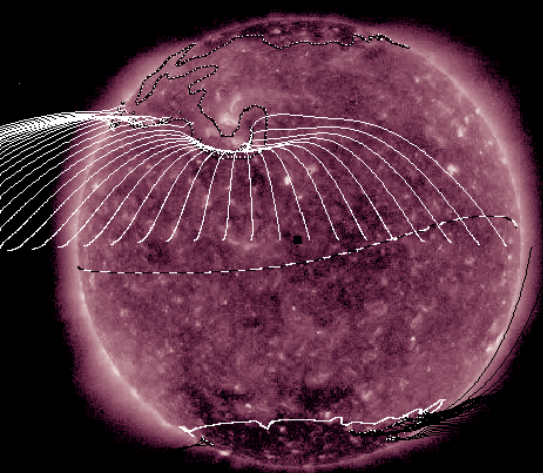
Model: 2020/03/02 12:04:32
AIA: 2020/03/02 07:05:23



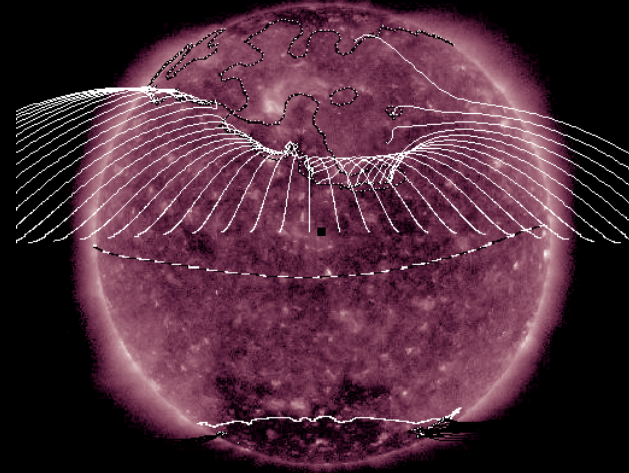
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AIA: 2020/03/03 07:07:11



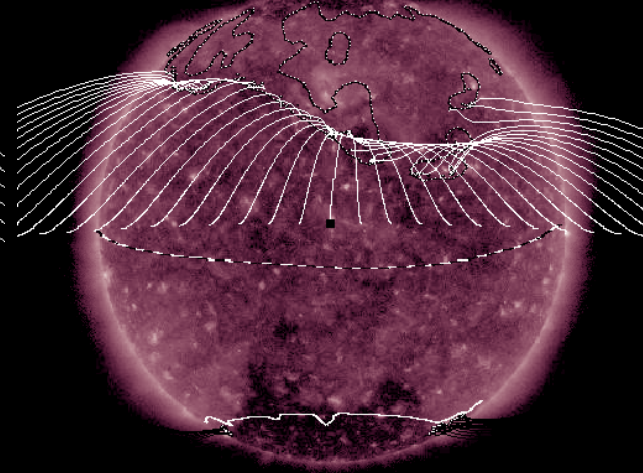
Model: 2020/03/04 00:03:28
AIA: 2020/03/03 19:08:35



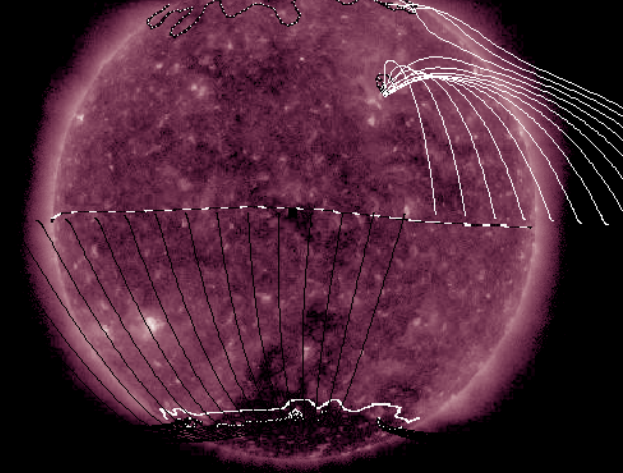
Model: 2020/03/05 00:03:28
AIA: 2020/03/04 19:08:35



Model: 2020/03/05 12:04:32
AIA: 2020/03/05 07:10:11



Model: 2020/03/06 12:04:32
AIA: 2020/03/06 07:10:23



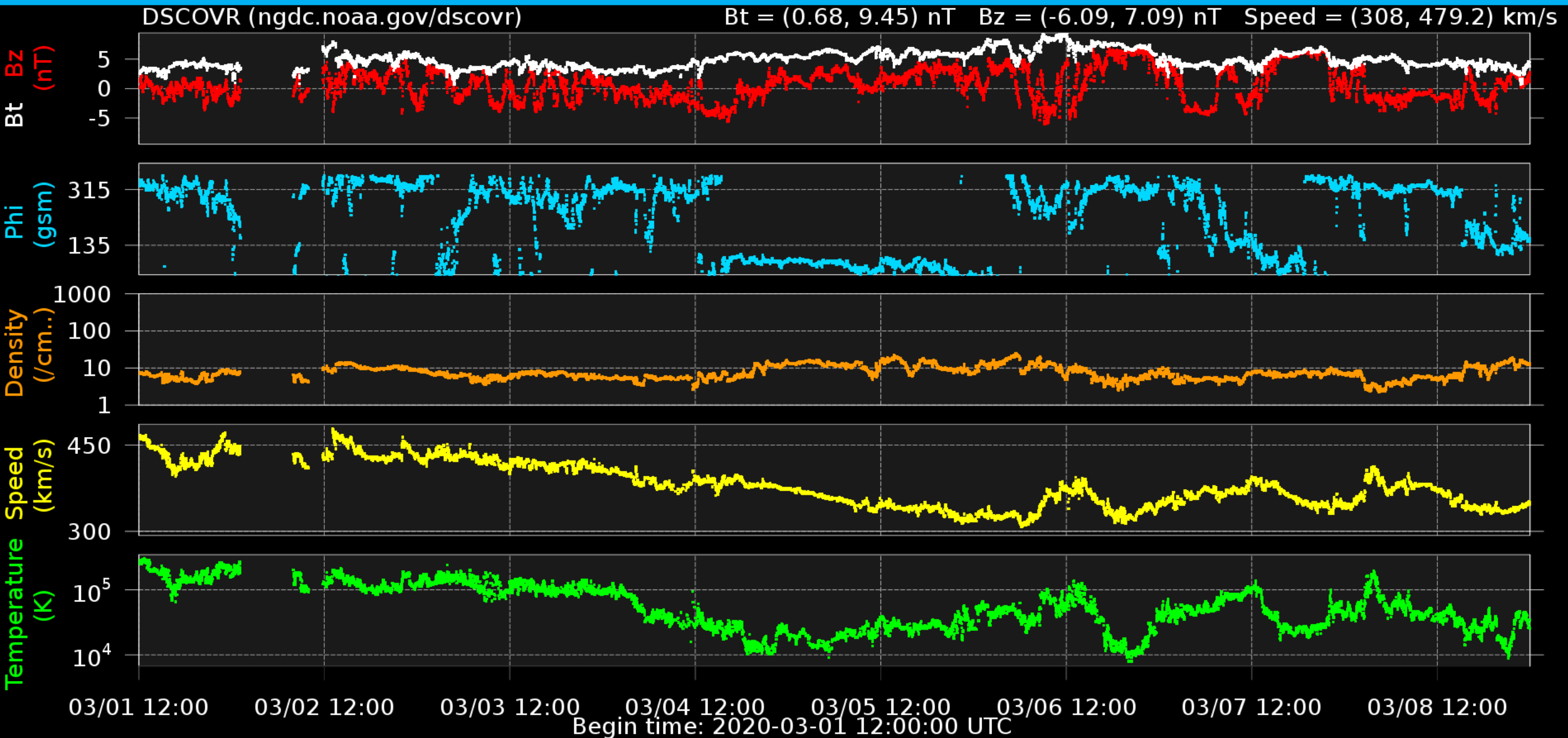
Model: 2020/03/08 00:03:28
AIA: 2020/03/07 19:08:35

Solar Wind and Geomagnetic Activity

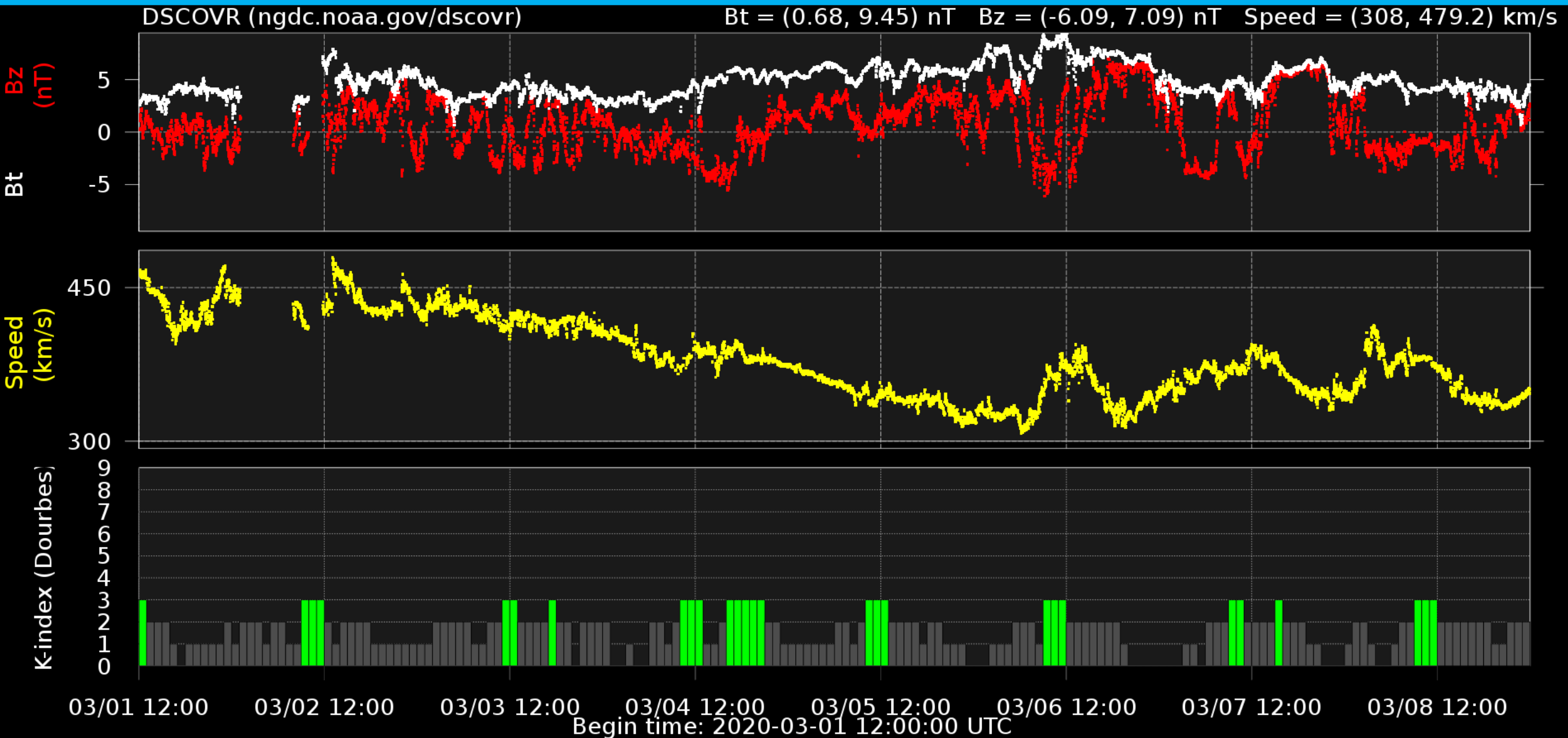


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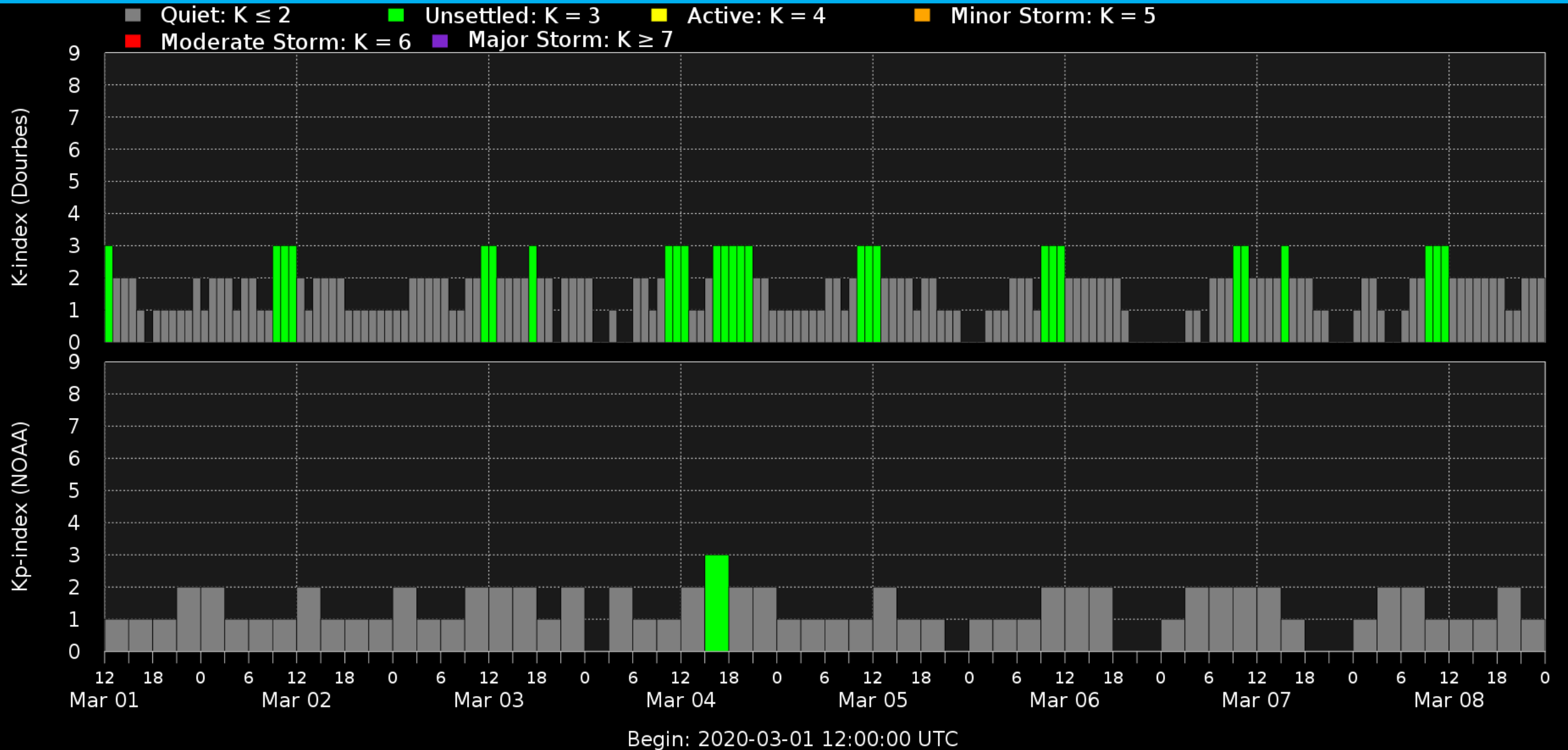
Solar wind parameters (DSCOVR data)



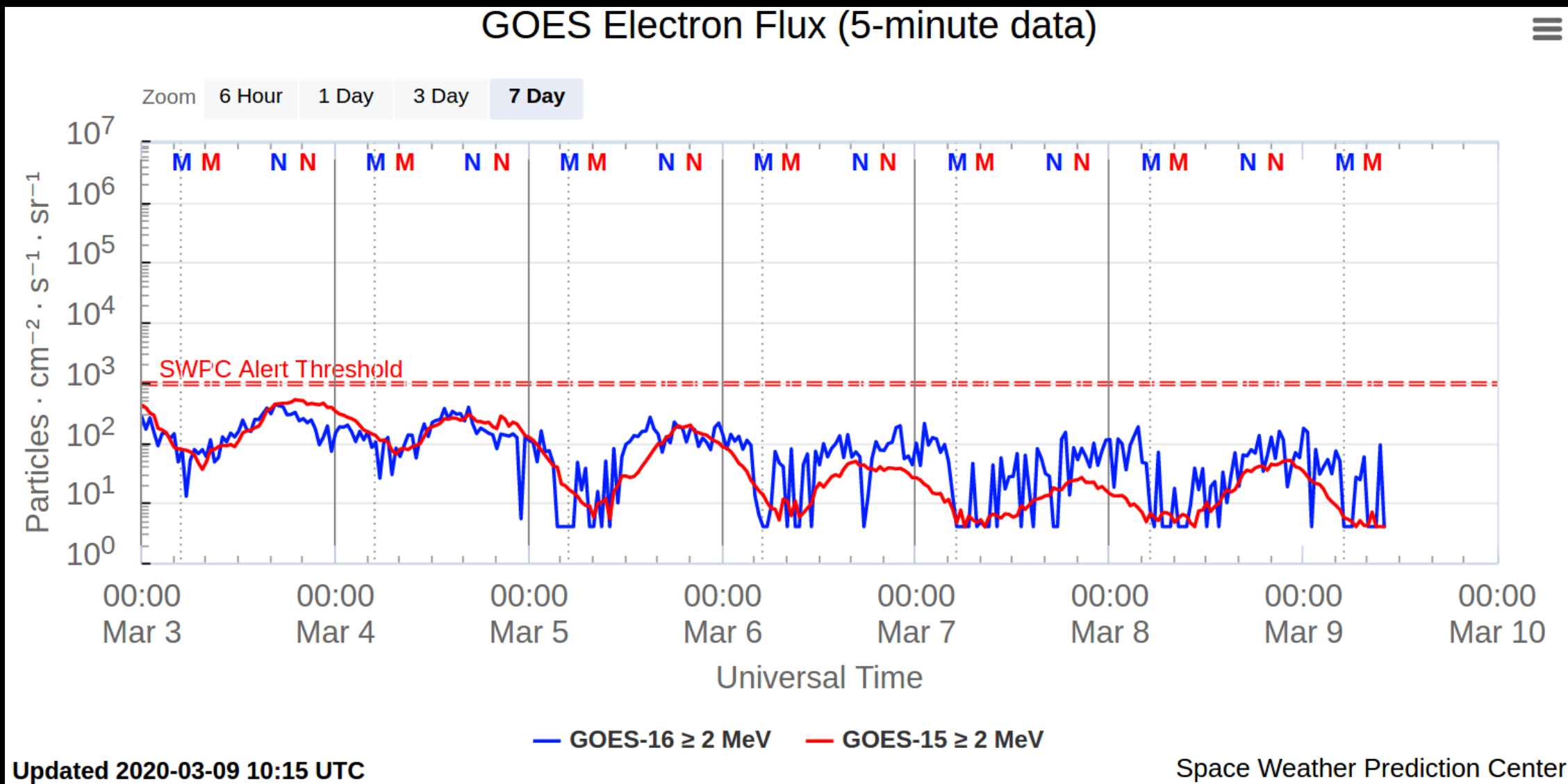
Solar wind parameters & K-index (DSCOVR/Dourbes)



Geomagnetic activity (K-indexes)



GOES Electron Flux



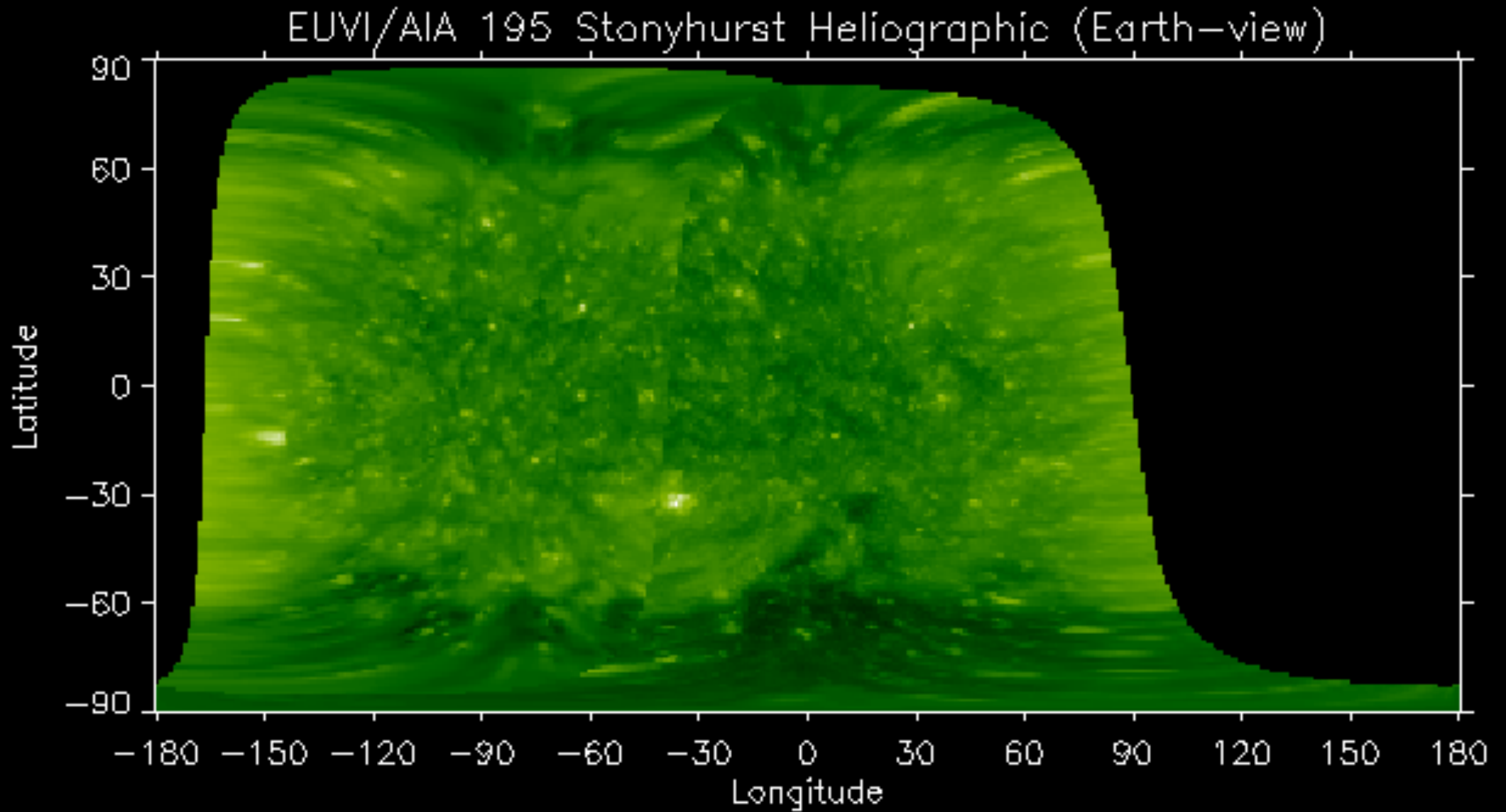
Outlook



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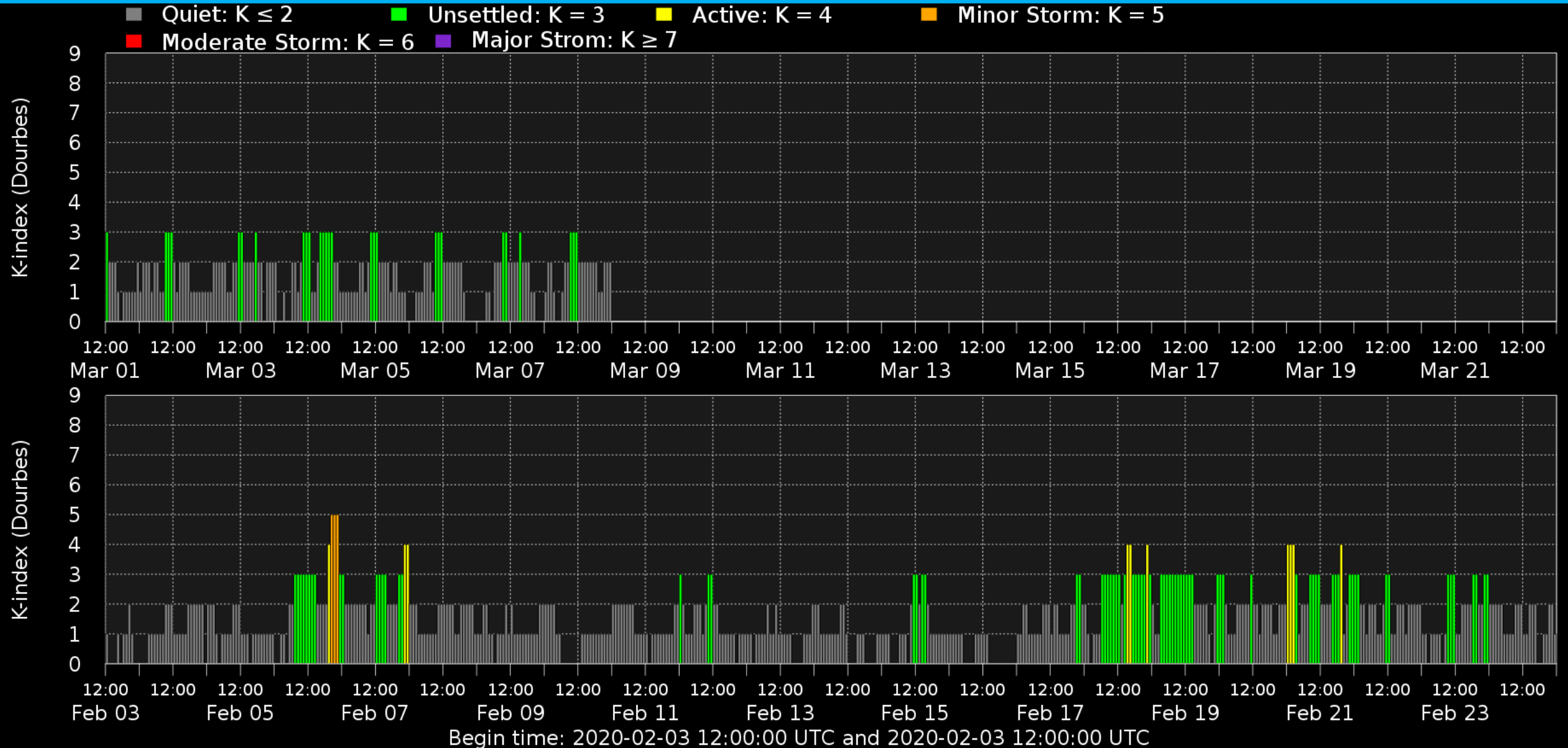
Outlook: Solar activity



Outlook: Solar wind



Outlook: Geomagnetic activity



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