

SIDC Space Weather Briefing

17 November 2019 - 24 November 2019

Matt West (presented by Cis Verbeeck)
& the SIDC forecaster team



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Summary Report

Solar activity from 2019-11-17 12:00 UT to 2019-11-24 12:00 UT

Active regions	No ARs on the Solar Disk
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	Small filament eruption Thursday 21st-Nov
CMEs	No Earth directed CMEs
Proton Events	Nominal Levels

Solar wind and geomagnetic conditions from 2019-11-17 12:00 UT to 2019-11-24 12:00 UT

Coronal Holes	A small low latitude coronal hole
ICME	No ICMEs
SW Conditions	SW Speeds reached 650 km/s
K-indices	max K-index (Dourbes): 4.0 max Kp-index (NOAA): 4

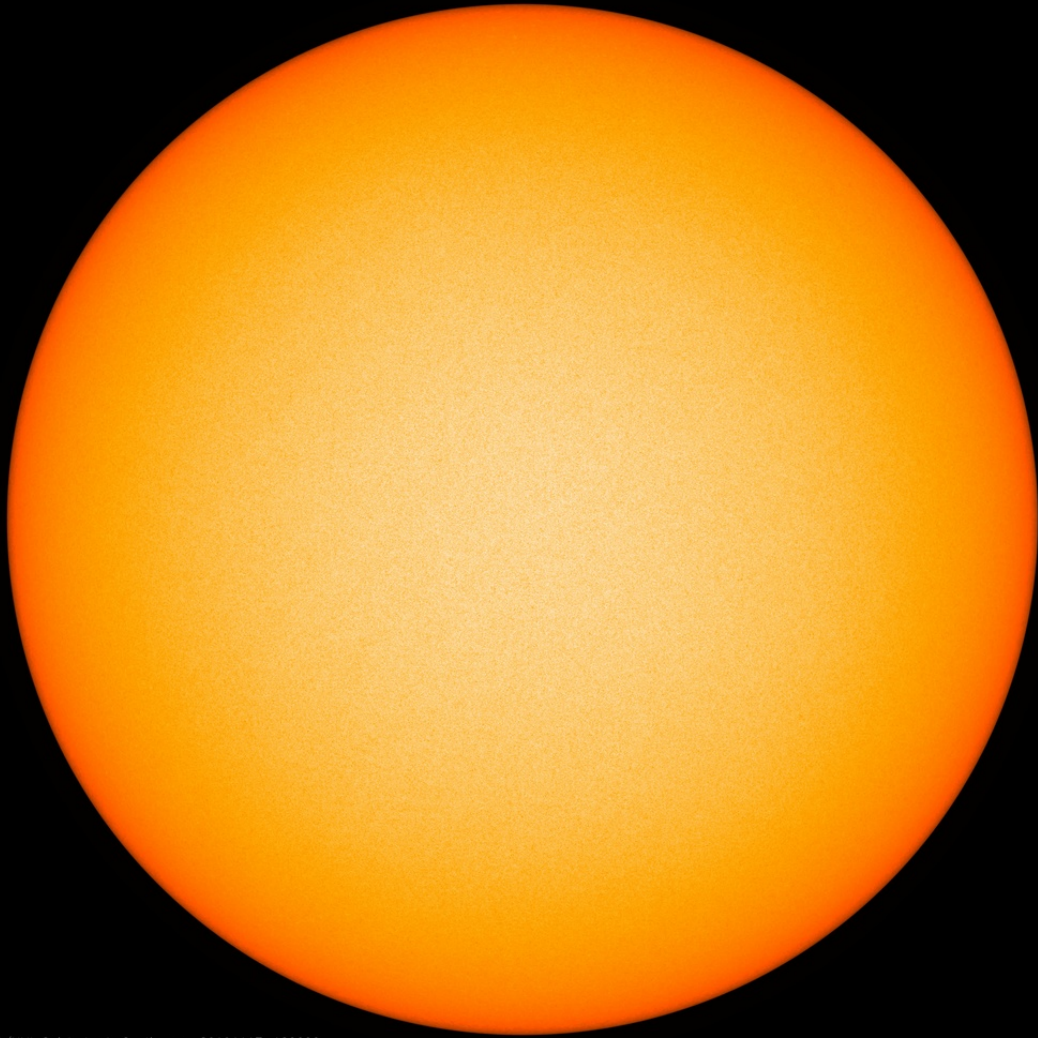
Solar Activity



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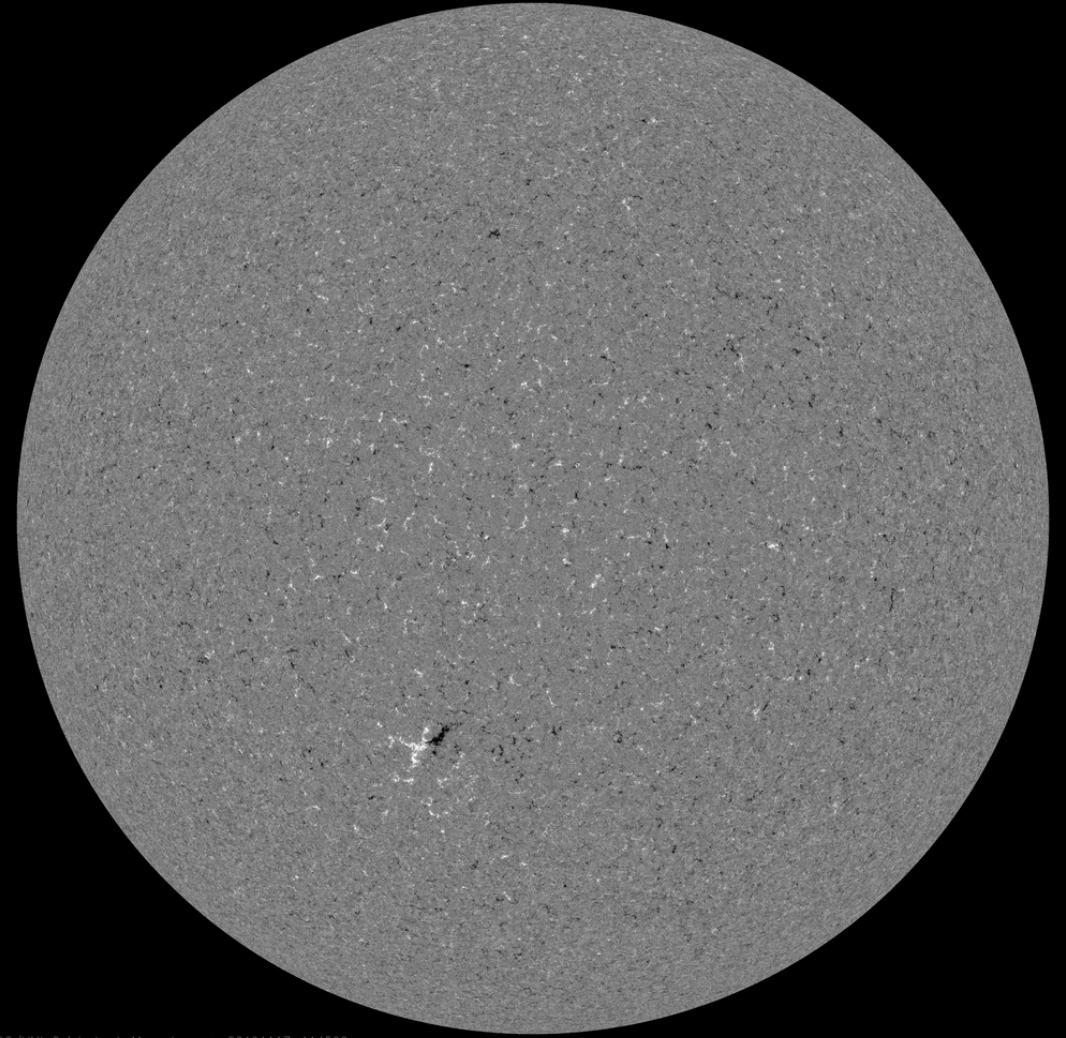
Solar active region - start of the week

SDO/HMI White Light 2019-11-17



SDO/HMI Quick-Look Continuum: 20191117_120000

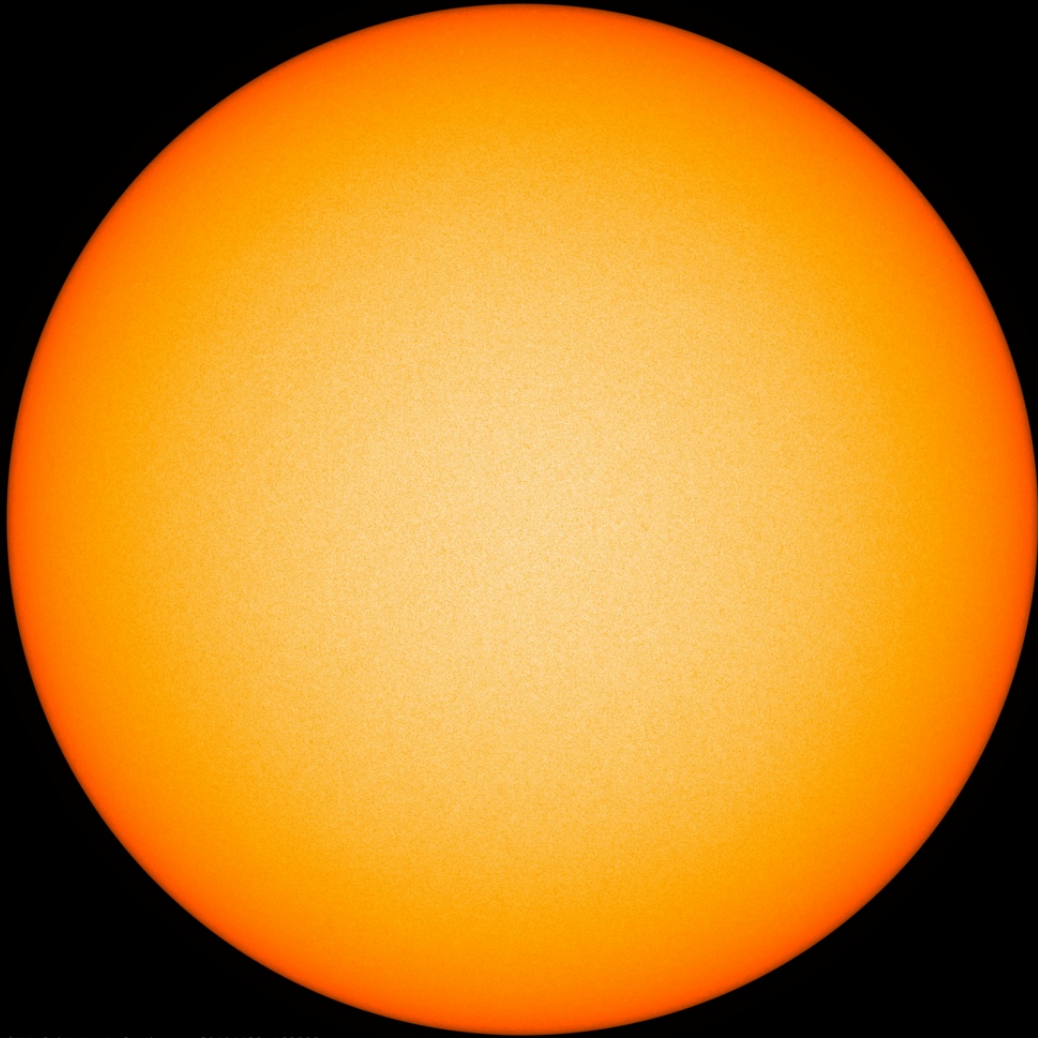
SDO/HMI Magnetogram 2019-11-17



SDO/HMI Quick-Look Magnetogram: 20191117_114500

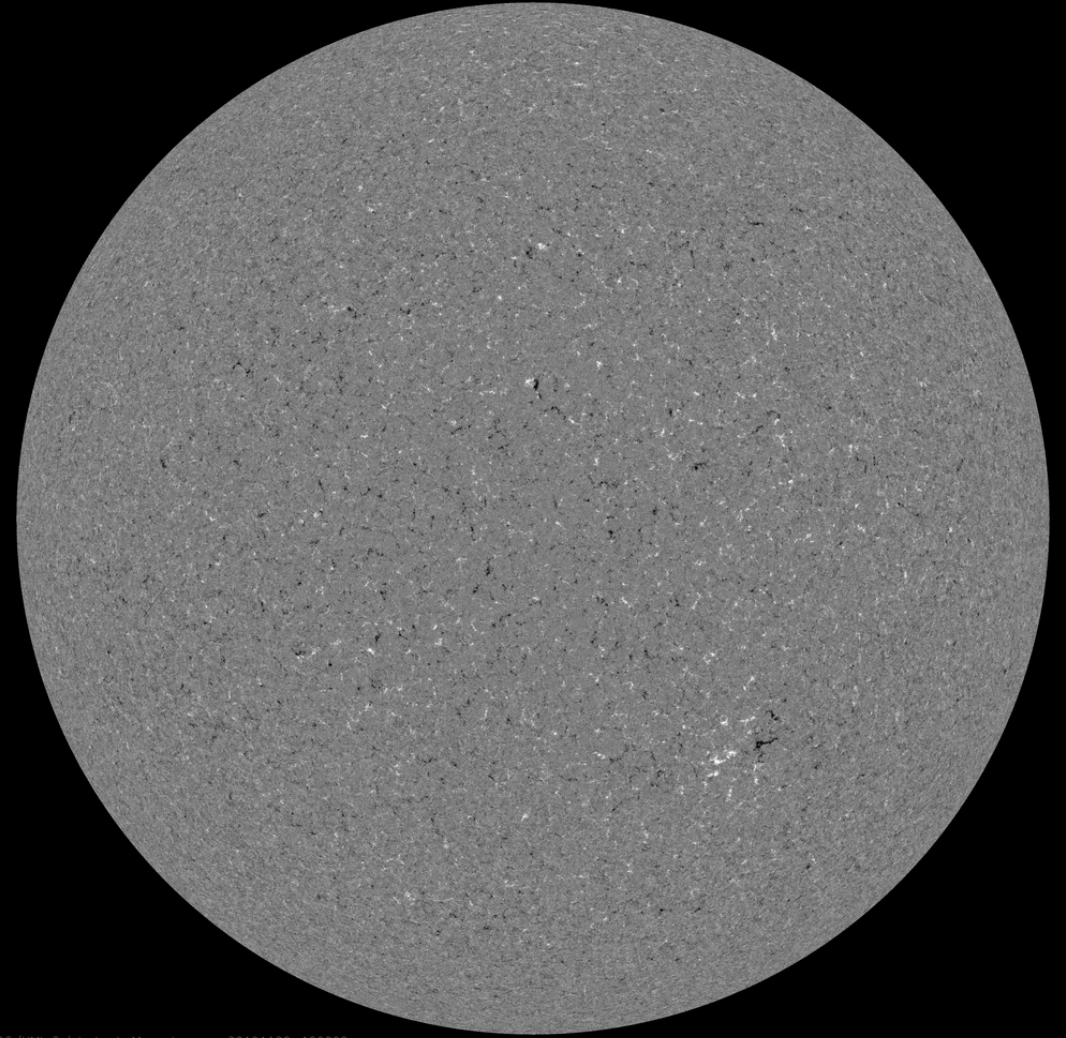
Solar active region - middle of the week

SDO/HMI White Light 2019-11-20



SDO/HMI Quick-Look Continuum: 20191120_120000

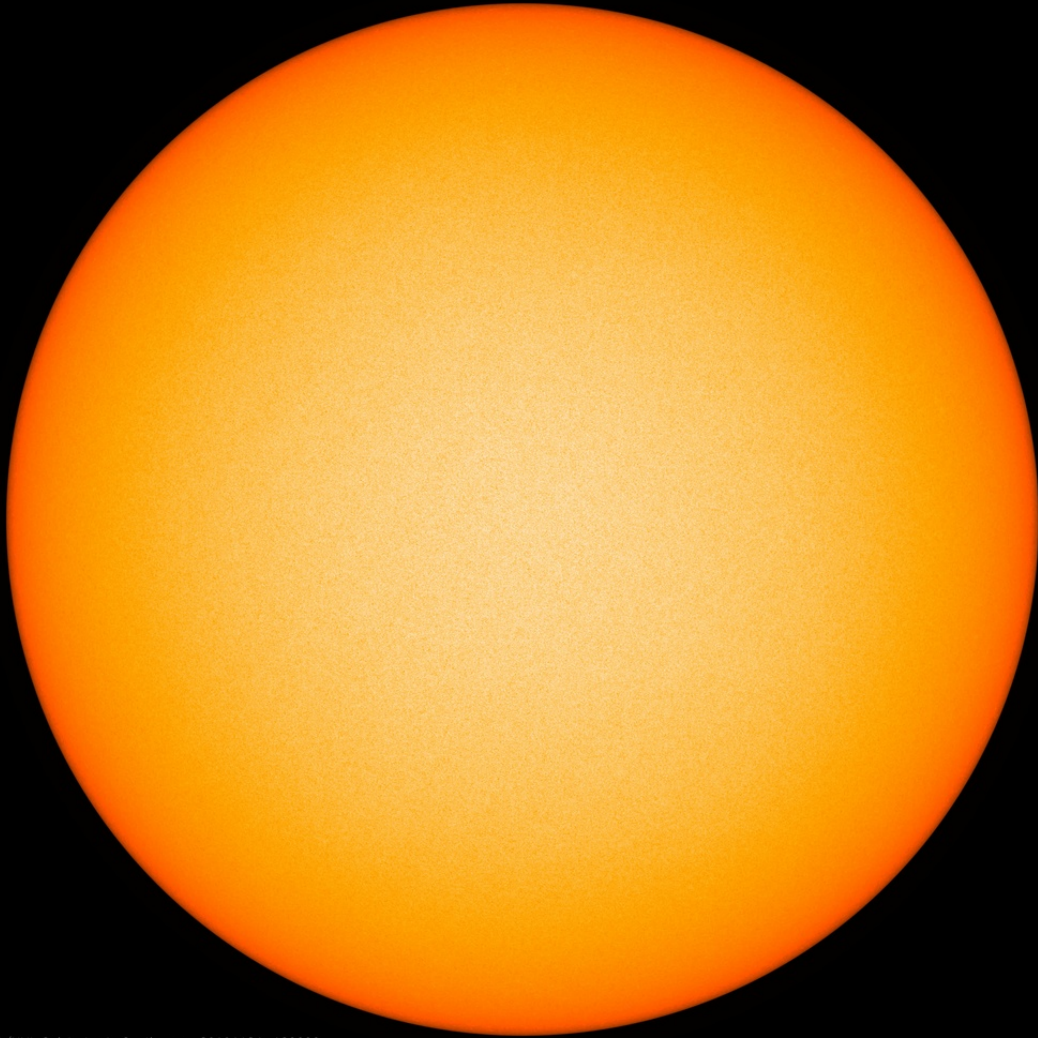
SDO/HMI Magnetogram 2019-11-20



SDO/HMI Quick-Look Magnetogram: 20191120_120000

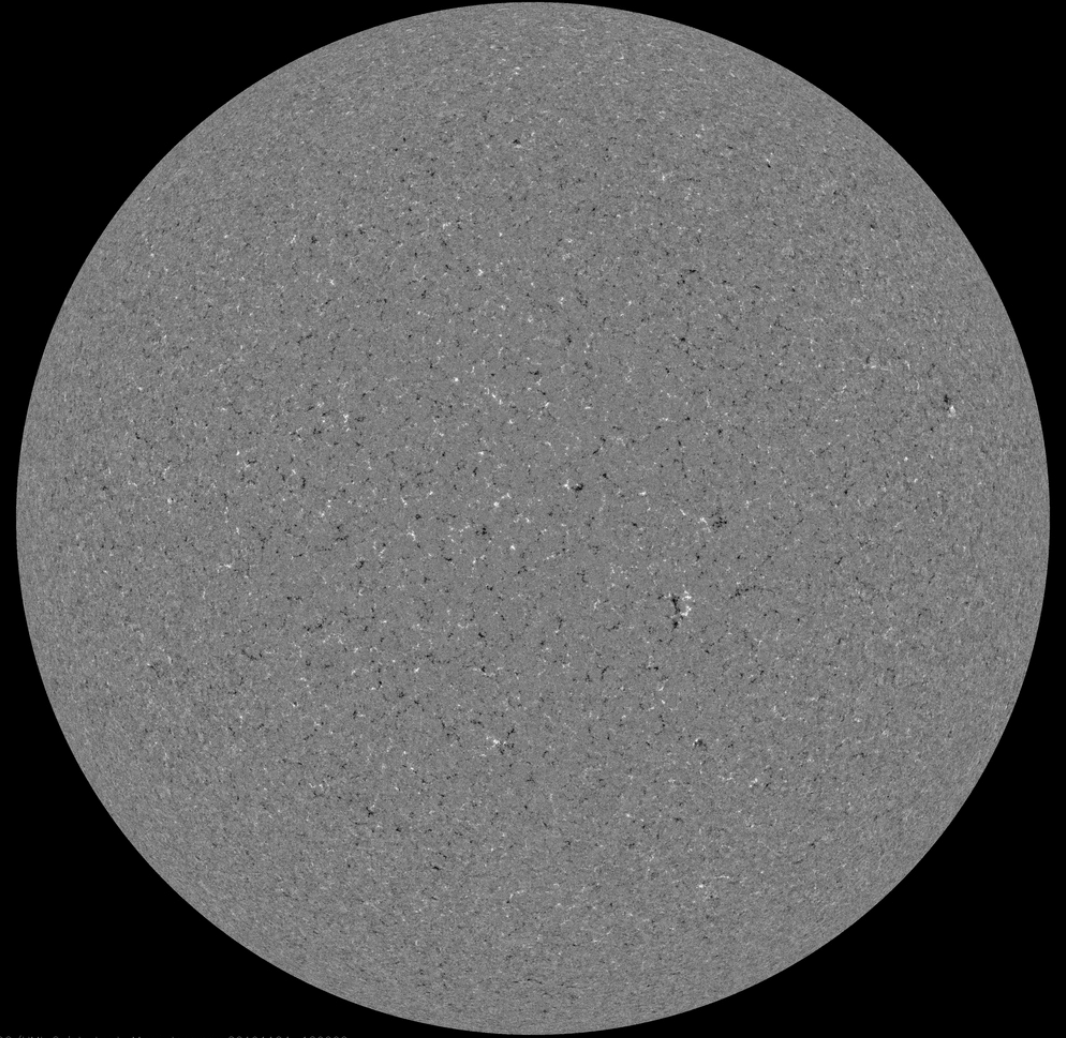
Solar active region - end of the week

SDO/HMI White Light 2019-11-24



SDO/HMI Quick-Look Continuum: 20191124_120000

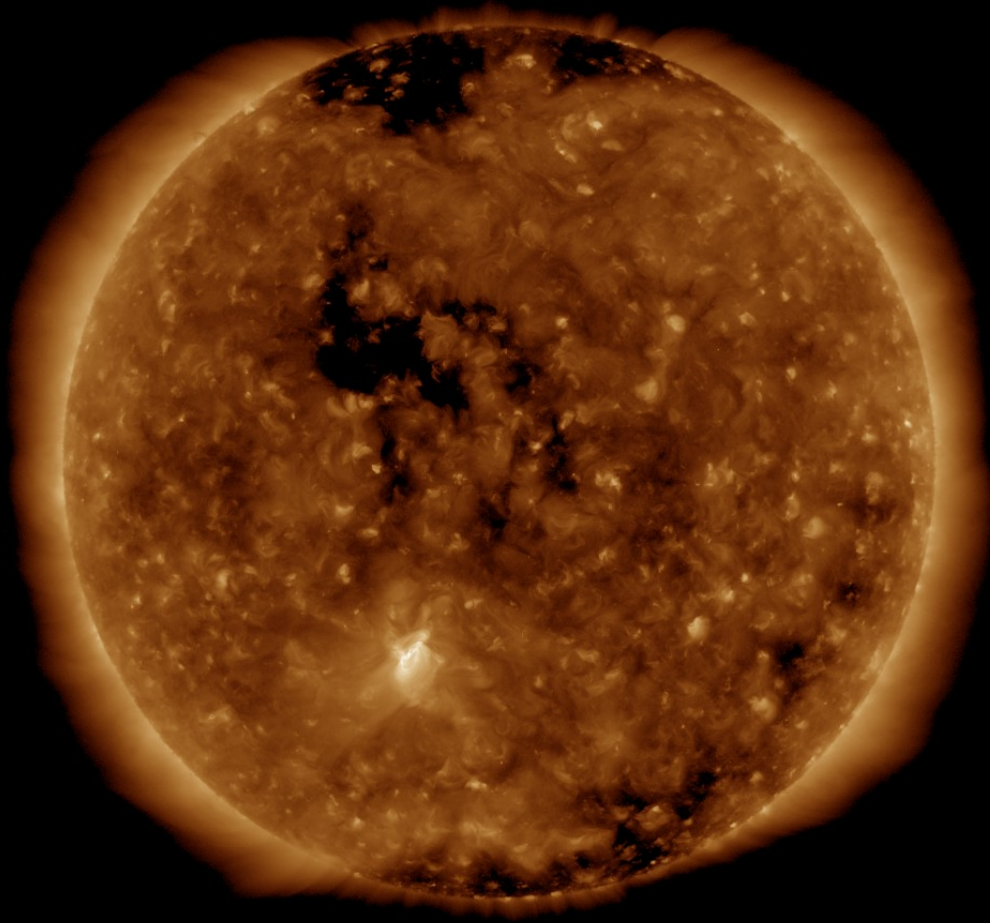
SDO/HMI Magnetogram 2019-11-24



SDO/HMI Quick-Look Magnetogram: 20191124_120000

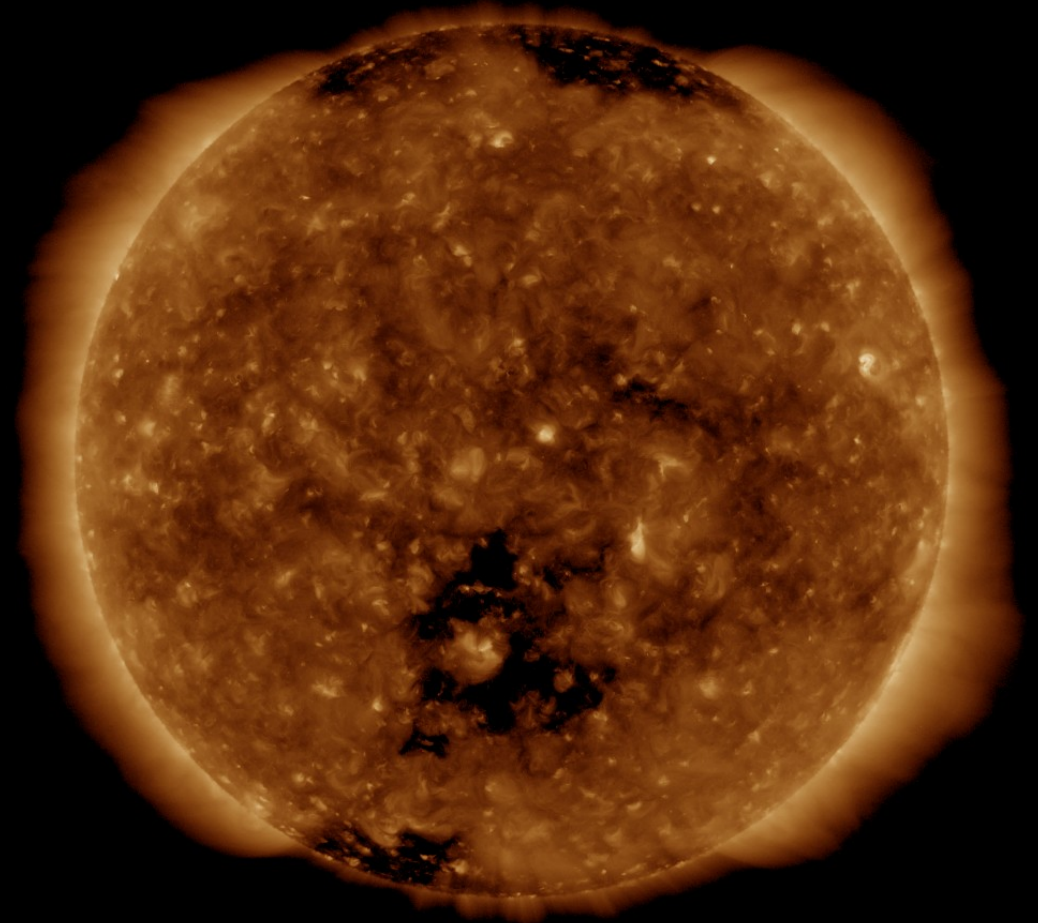
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2019-11-17



SDO/AIA 193 2019-11-17 12:11:05 UT

SDO/AIA 19.3 nm 2019-11-24

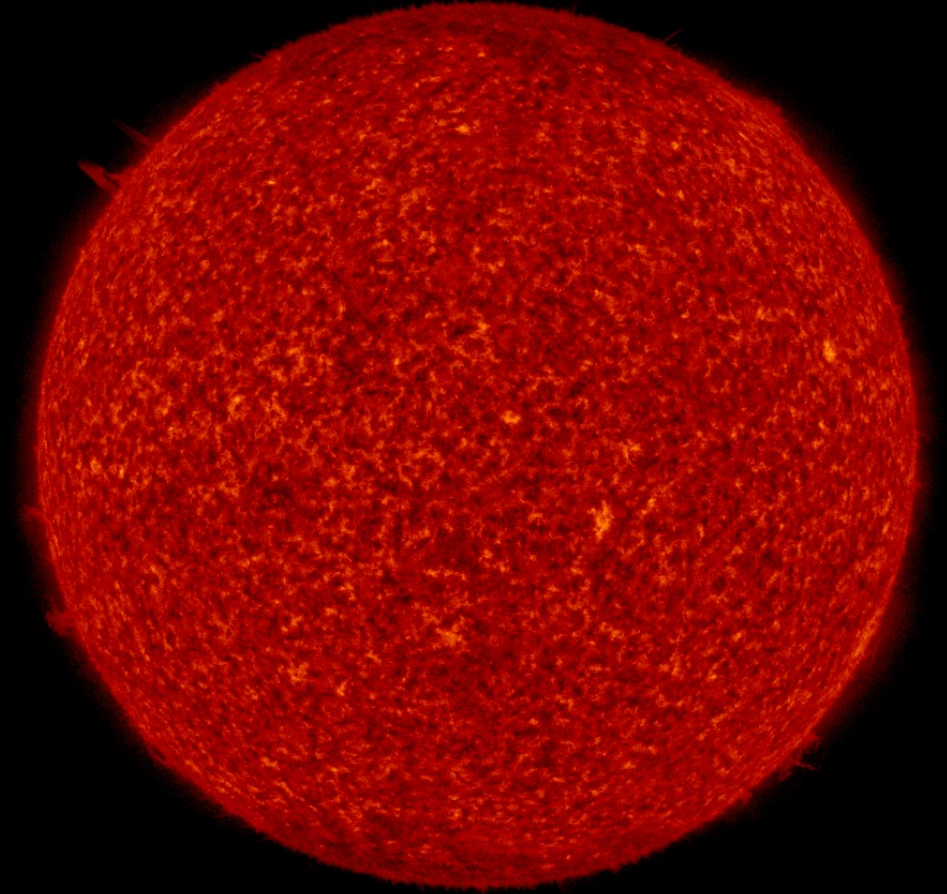
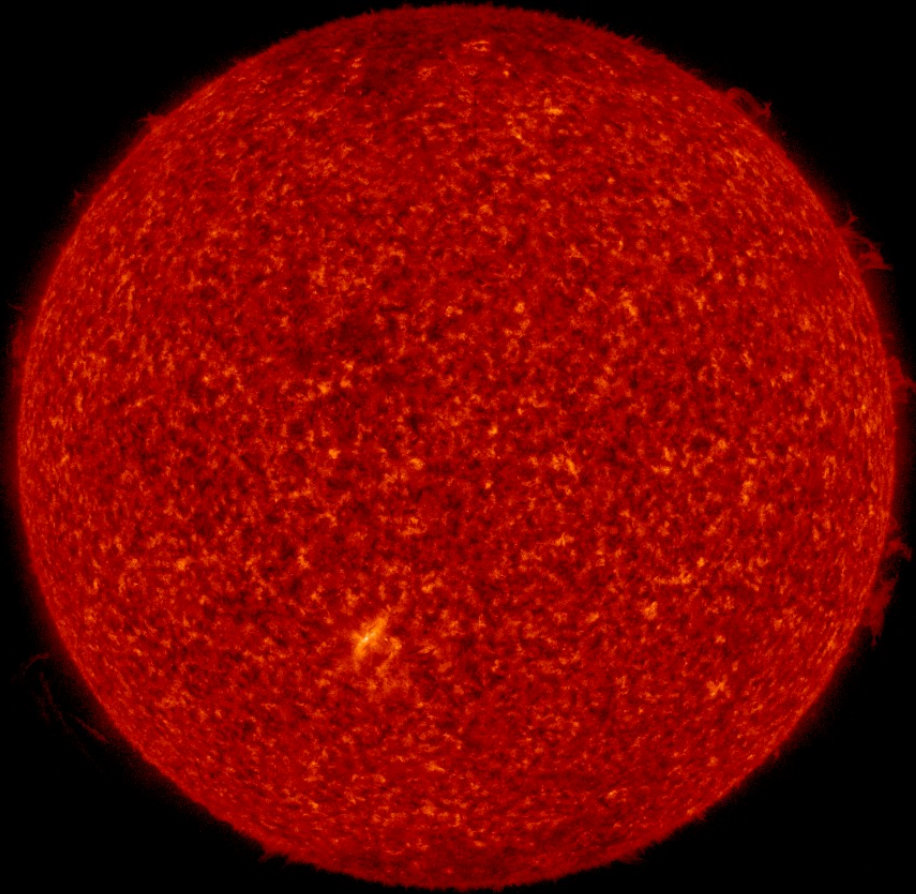


SDO/AIA 193 2019-11-24 12:11:05 UT

Solar active region & Filament

SDO/AIA 30.4 nm 2019-11-17

SDO/AIA 30.4 nm 2019-11-24

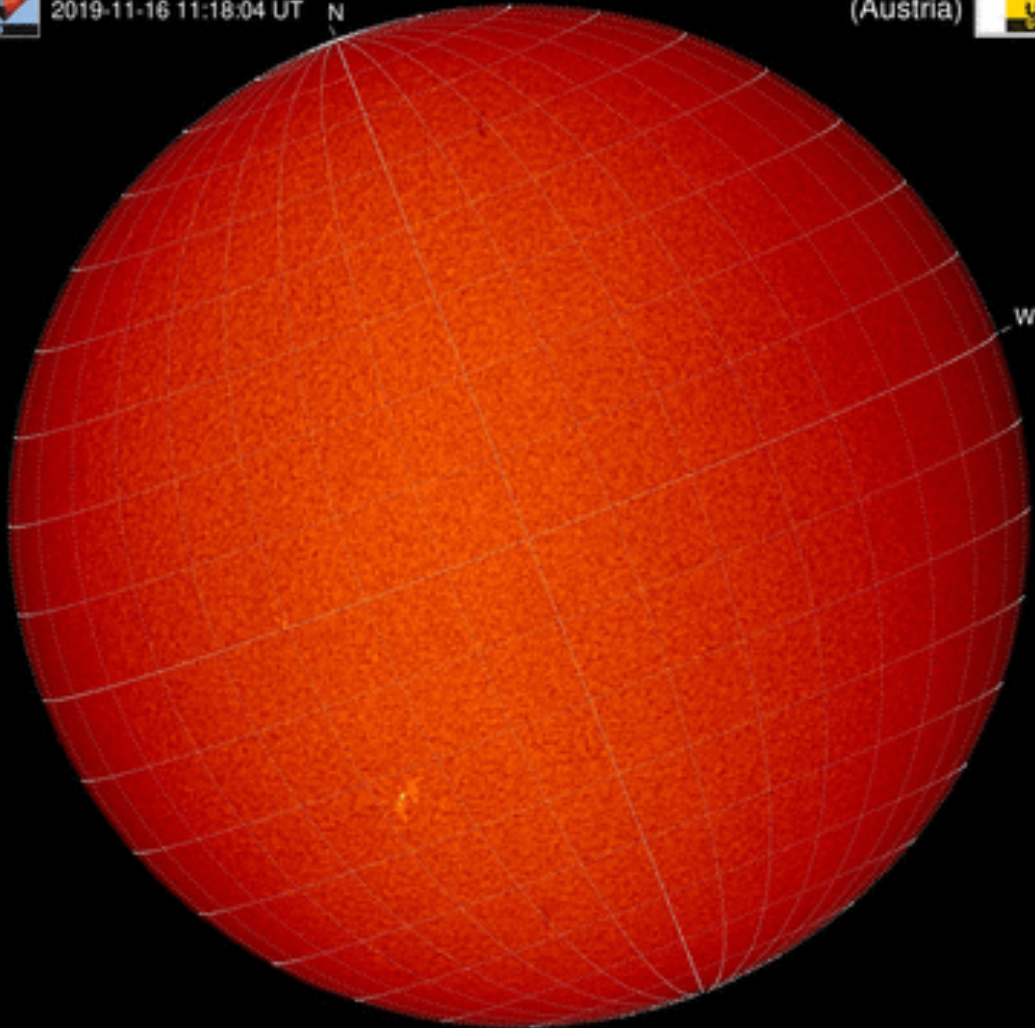
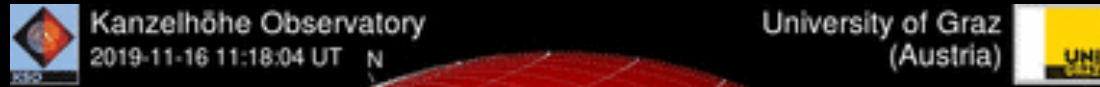


SDO/AIA 304 2019-11-17 12:13:42 UT

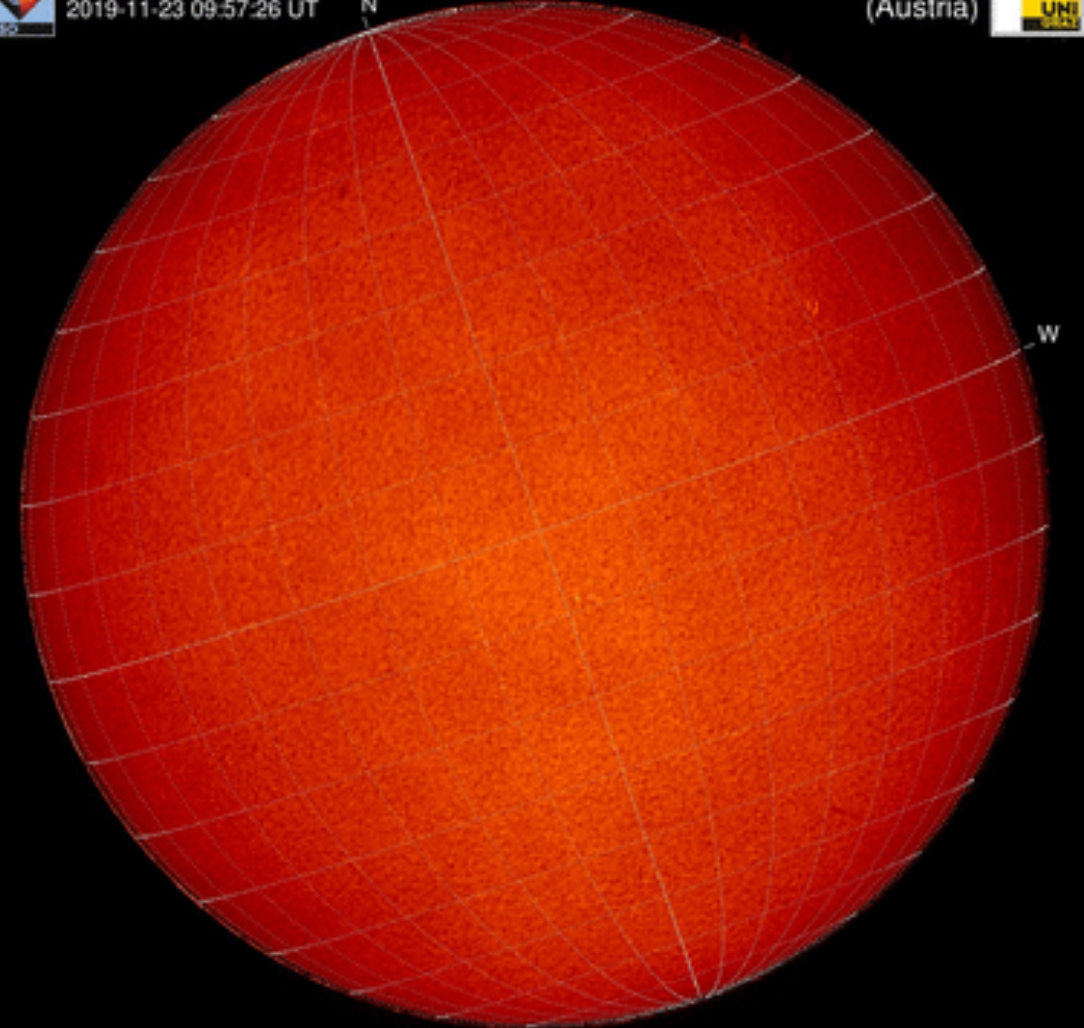
SDO/AIA 304 2019-11-24 12:13:06 UT

Filament & Filament eruption

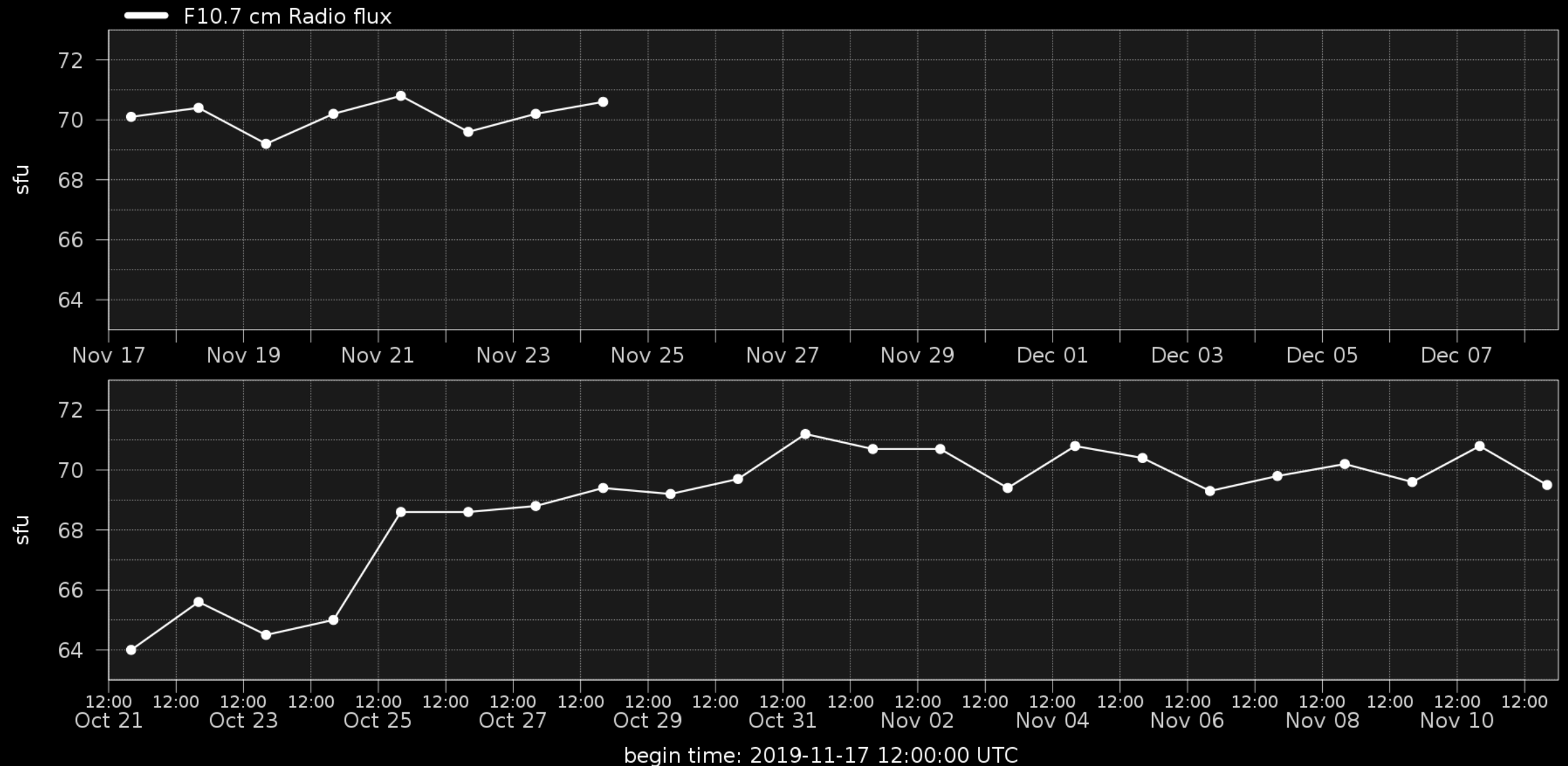
H-alpha 2019-11-17



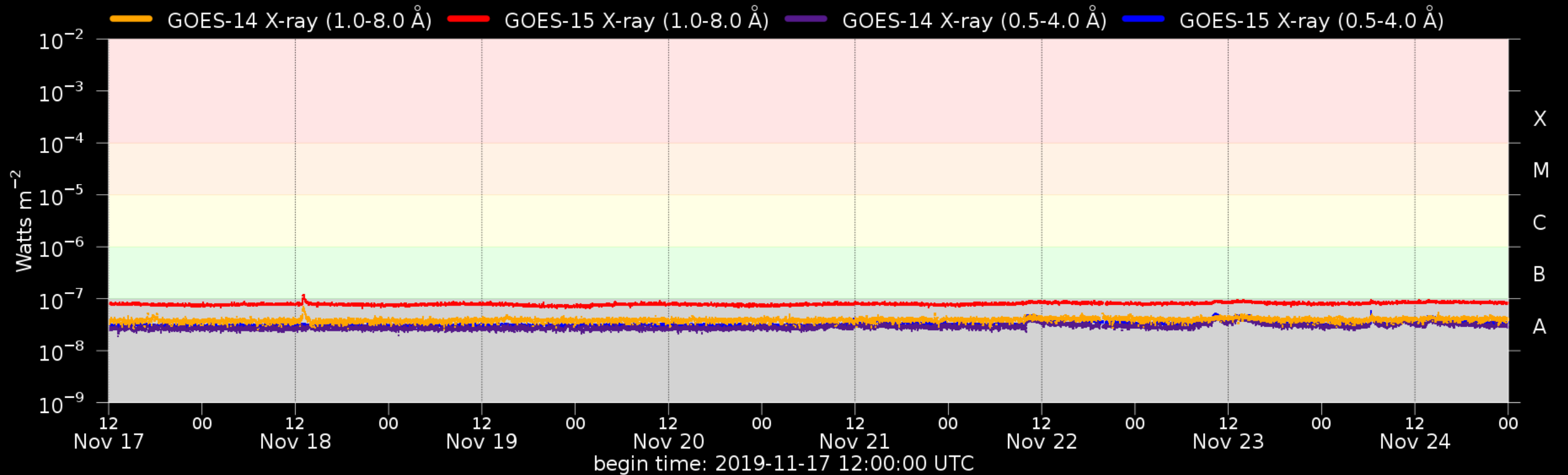
H-alpha 2019-11-24



Solar F10.7cm radio flux



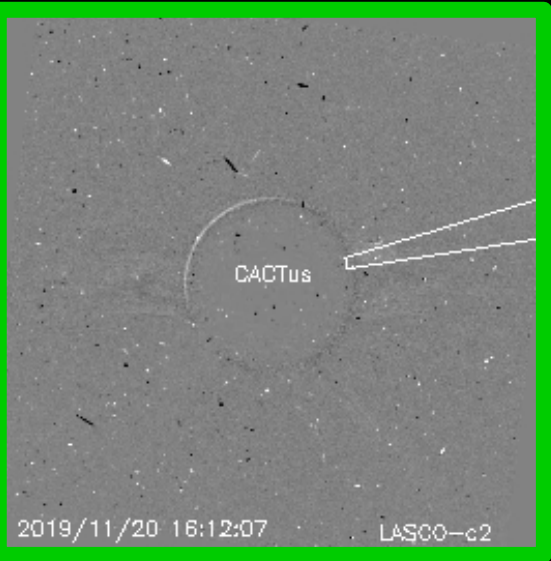
Flaring activity



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

[illegible]

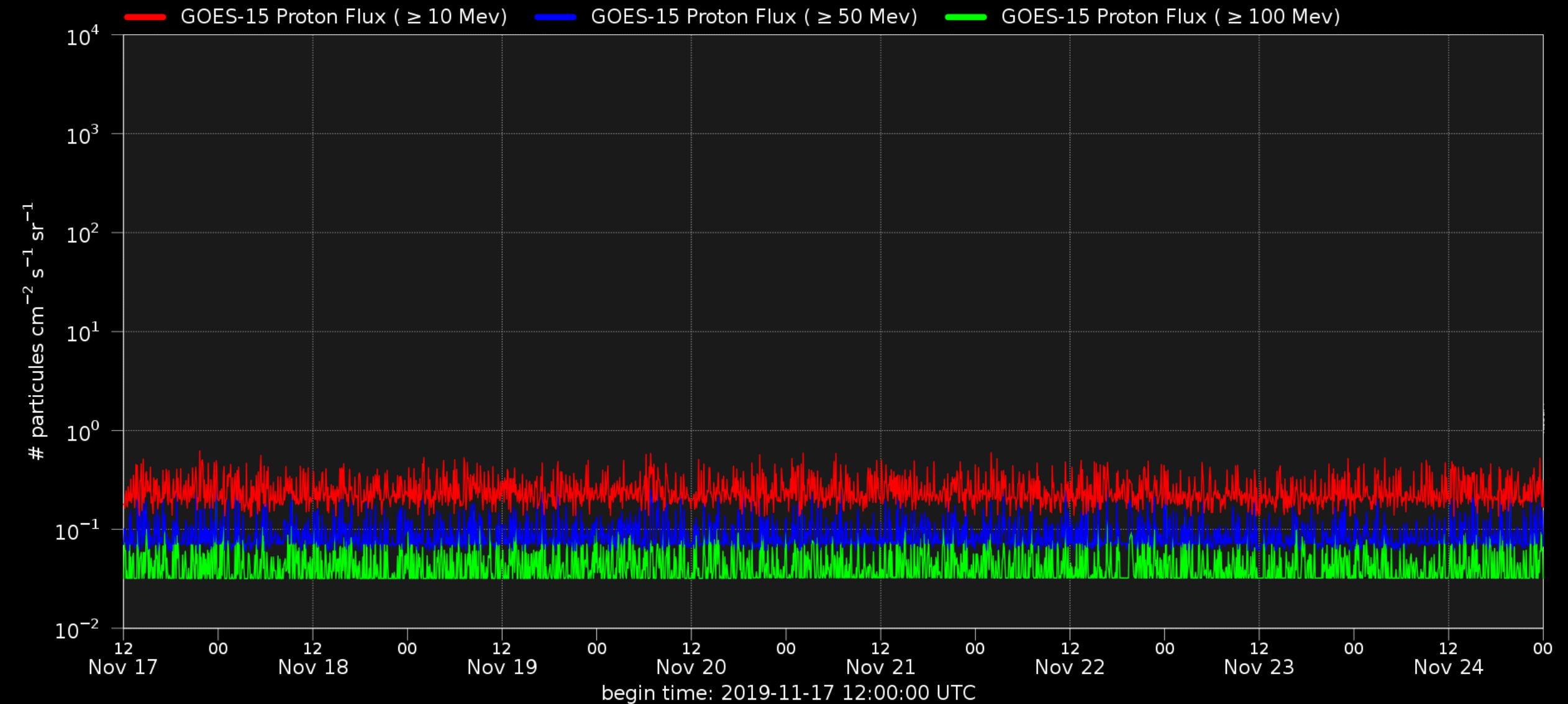
Coronal Mass Ejection



c21

22:00 11/23
19:18 11/23
16:48 11/23
14:00 11/23
10:54 11/23
08:24 11/23
06:12 11/23
03:36 11/23
23:48 11/22
20:36 11/22
18:24 11/22
15:12 11/22
12:12 11/22
09:24 11/22
05:24 11/22
00:36 11/22
21:36 11/21
18:12 11/21
15:48 11/21
12:12 11/21
09:24 11/21
06:00 11/21
03:12 11/21
23:36 11/20
20:06 11/20
17:24 11/20
14:36 11/20
11:12 11/20
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02:24 11/20
23:36 11/19
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17:36 11/19
14:12 11/19
11:24 11/19
08:36 11/19
05:42 11/19
03:12 11/19
23:48 11/18
20:12 11/18
17:24 11/18
14:36 11/18
11:24 11/18
08:24 11/18

Solar proton flux

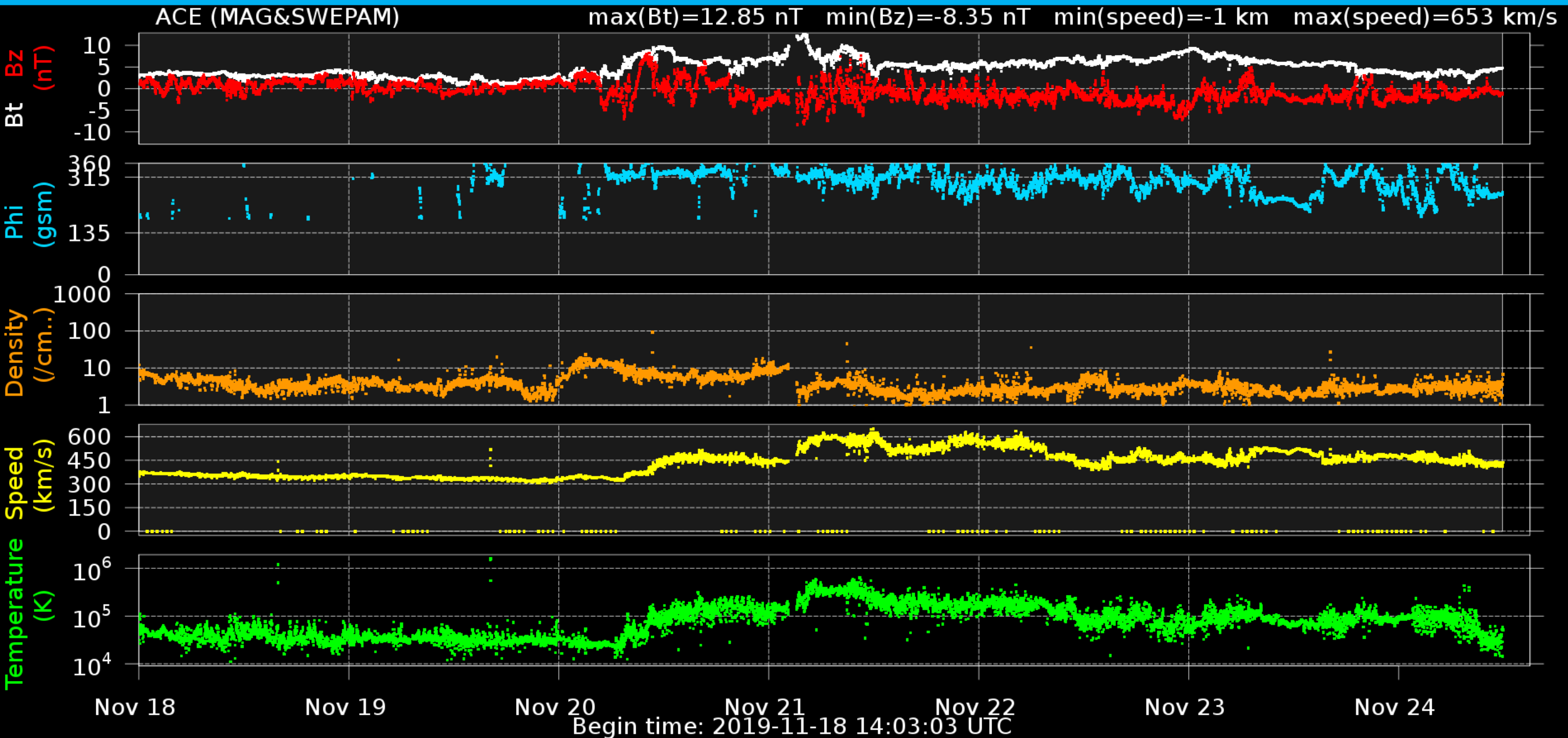


Solar Wind and Geomagnetic Activity

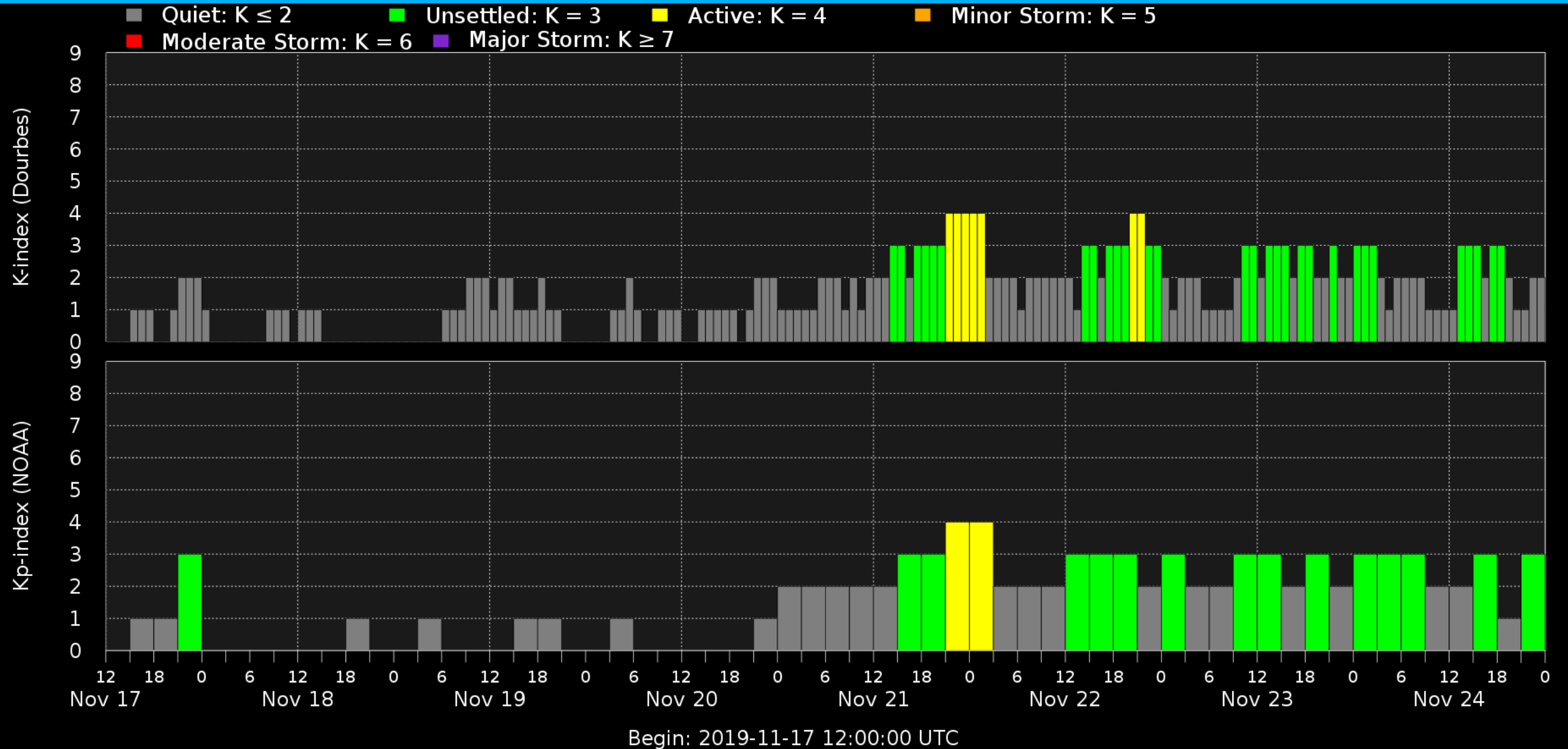


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Solar wind parameters (ACE data)



Geomagnetic activity (K-indexes)



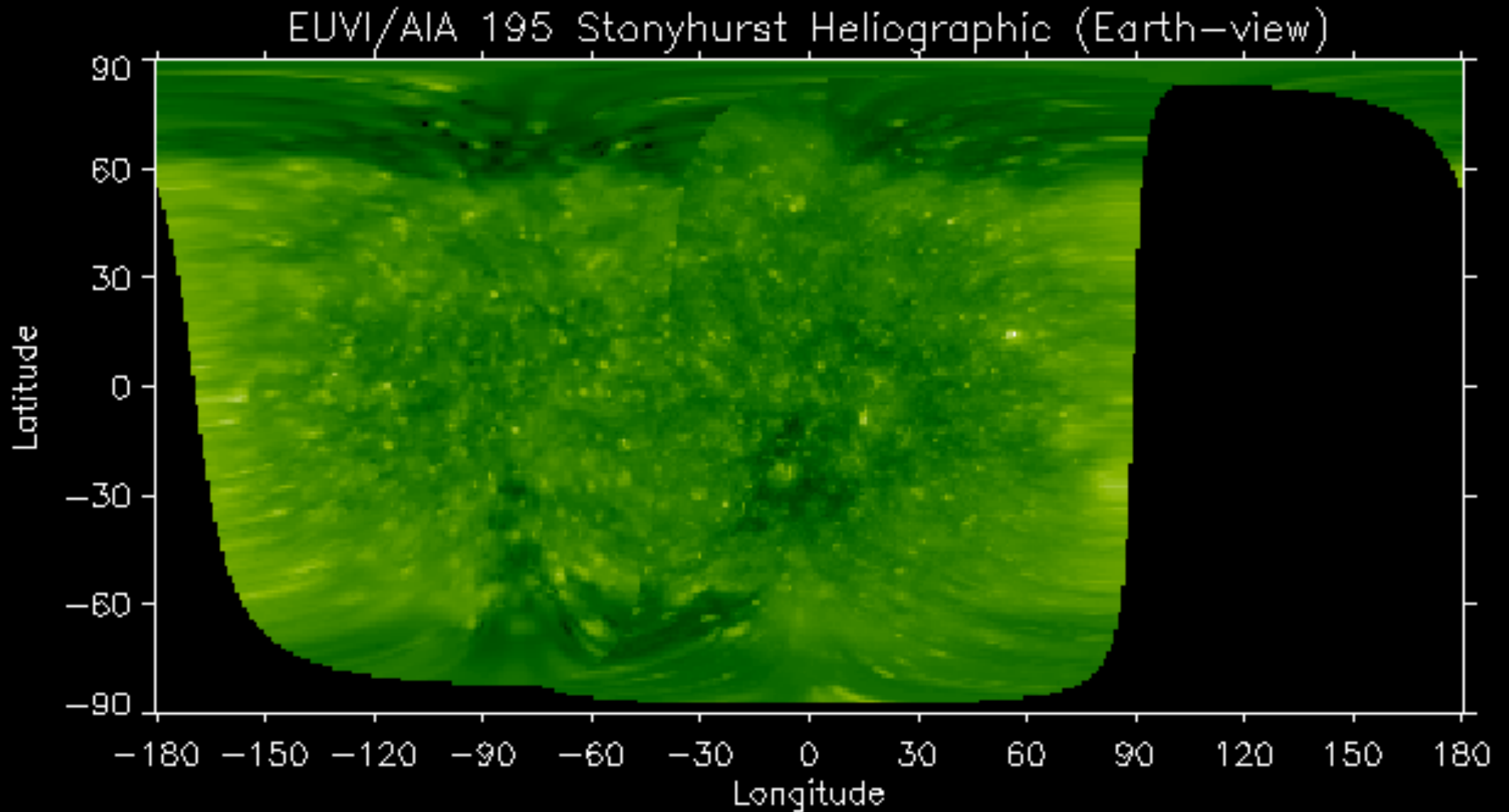
Outlook



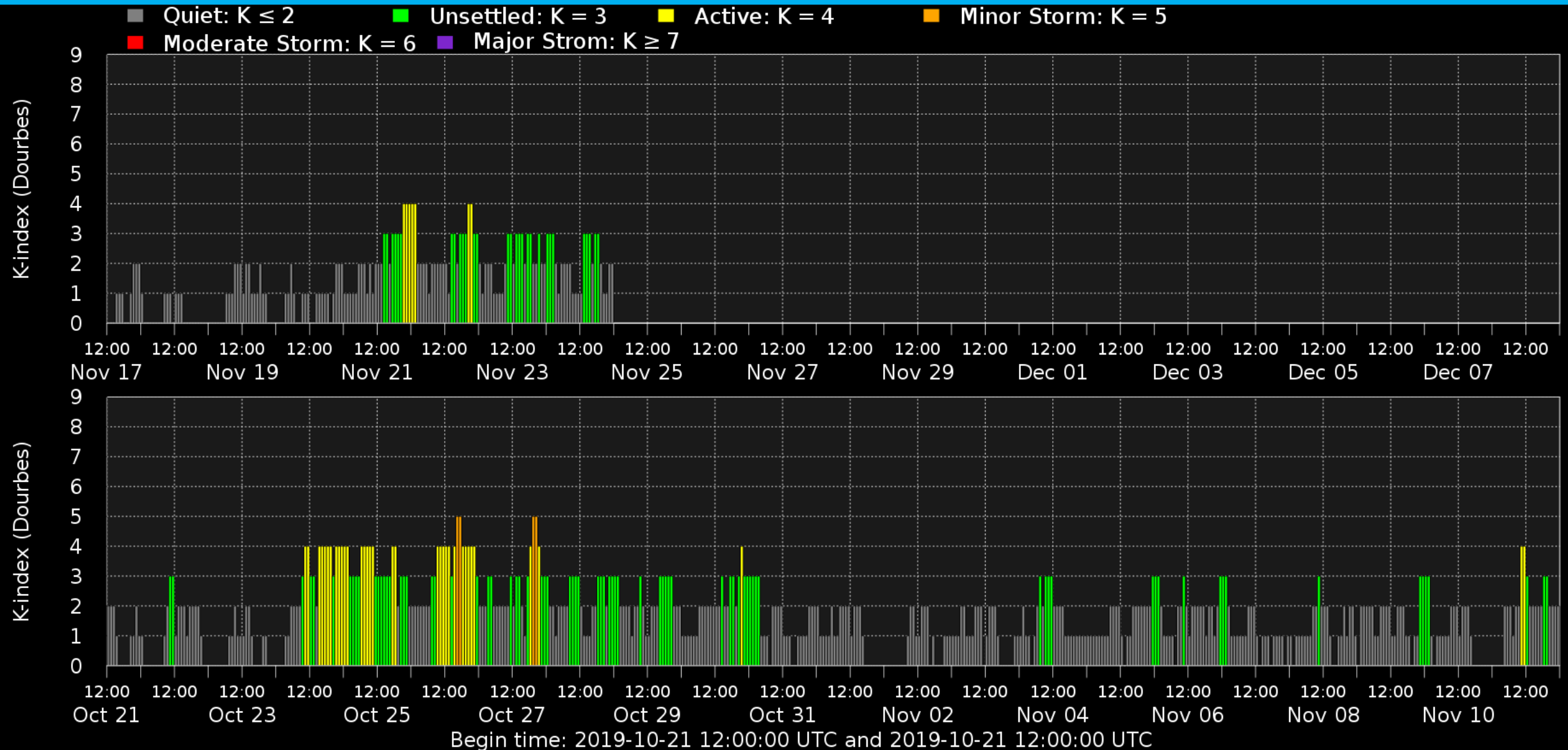
Royal Observatory
of Belgium

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Outlook: Solar activity



Outlook: Geomagnetic activity



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