

SIDC Space Weather Briefing

29 March 2020 - 05 April 2020

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& the SIDC forecaster team



Royal Observatory
of Belgium

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Summary Report

Solar activity from 2020-03-29 12:00 UT to 2020-04-05 12:00 UT

Active regions	AR12759
Flaring	# B-class flare: 2 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	No significant eruptions
CMEs	No Earth directed CMEs
Proton Events	None

Solar wind and geomagnetic conditions from 2020-03-29 12:00 UT to 2020-04-05 12:00 UT

Coronal Holes	Small Coronal Hole crossing CM late Mar 31 - Apr 1
ICME	None
SW Conditions	SW speed between 350 and 535 km/s
K-indices	max K-index (Dourbes): 5 max Kp-index (NOAA): 4

Solar Activity

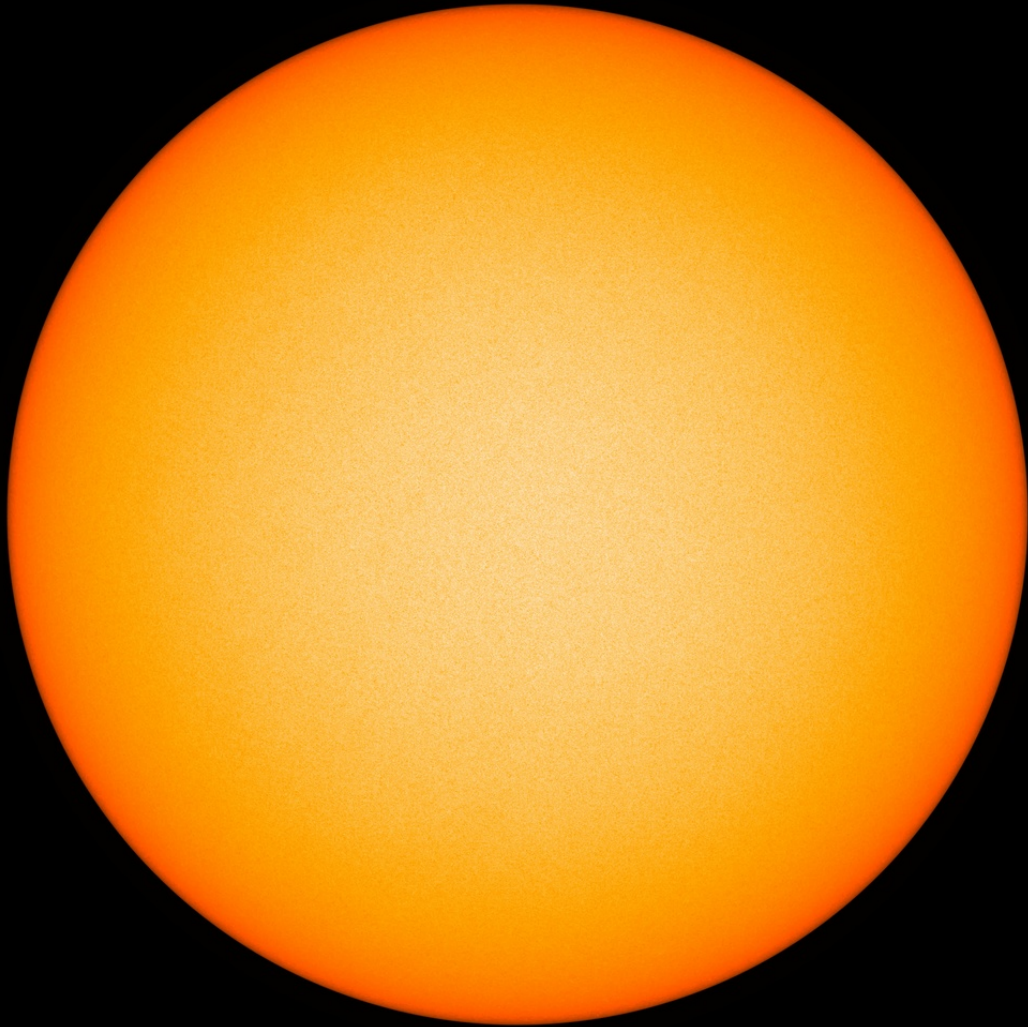


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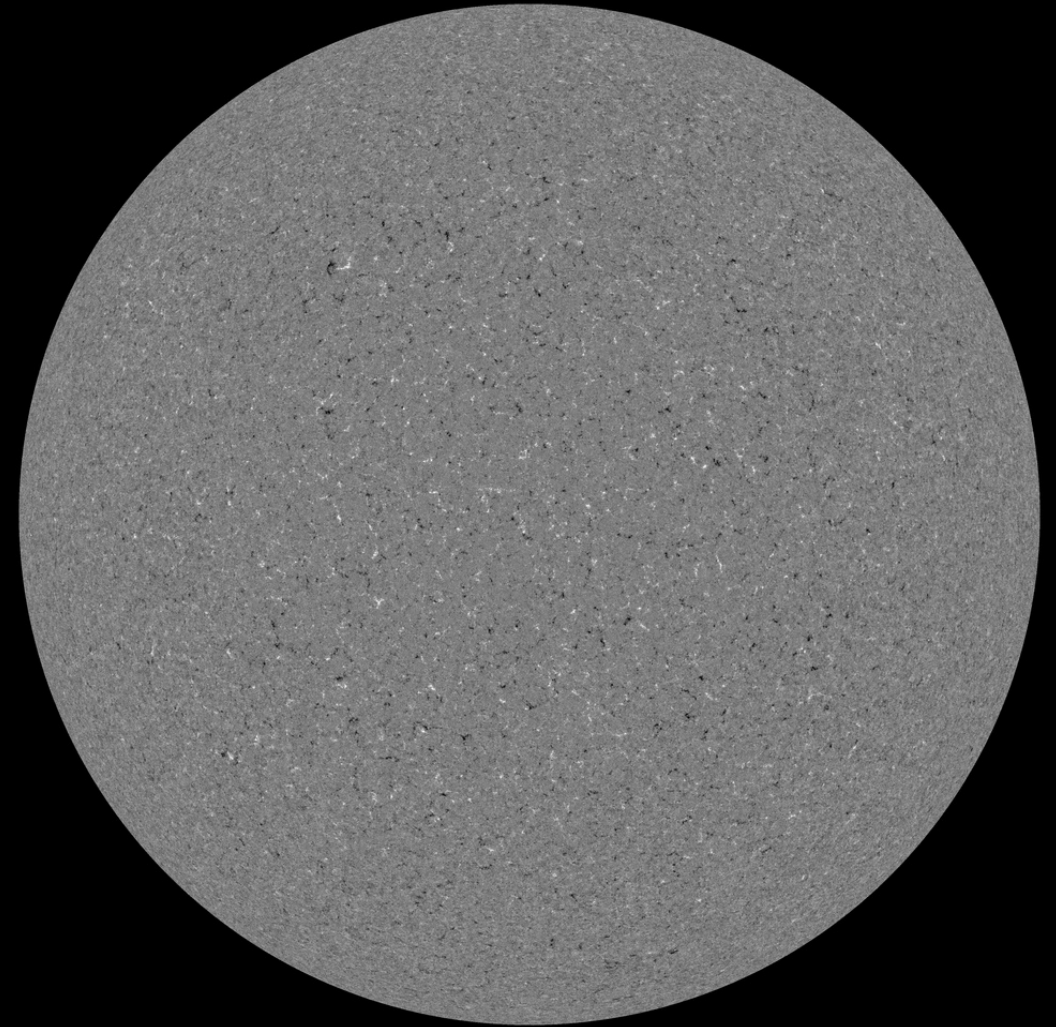
Solar active region - start of the week

SDO/HMI White Light 2020-03-29



SDO/HMI Quick-Look Continuum: 20200329_114500

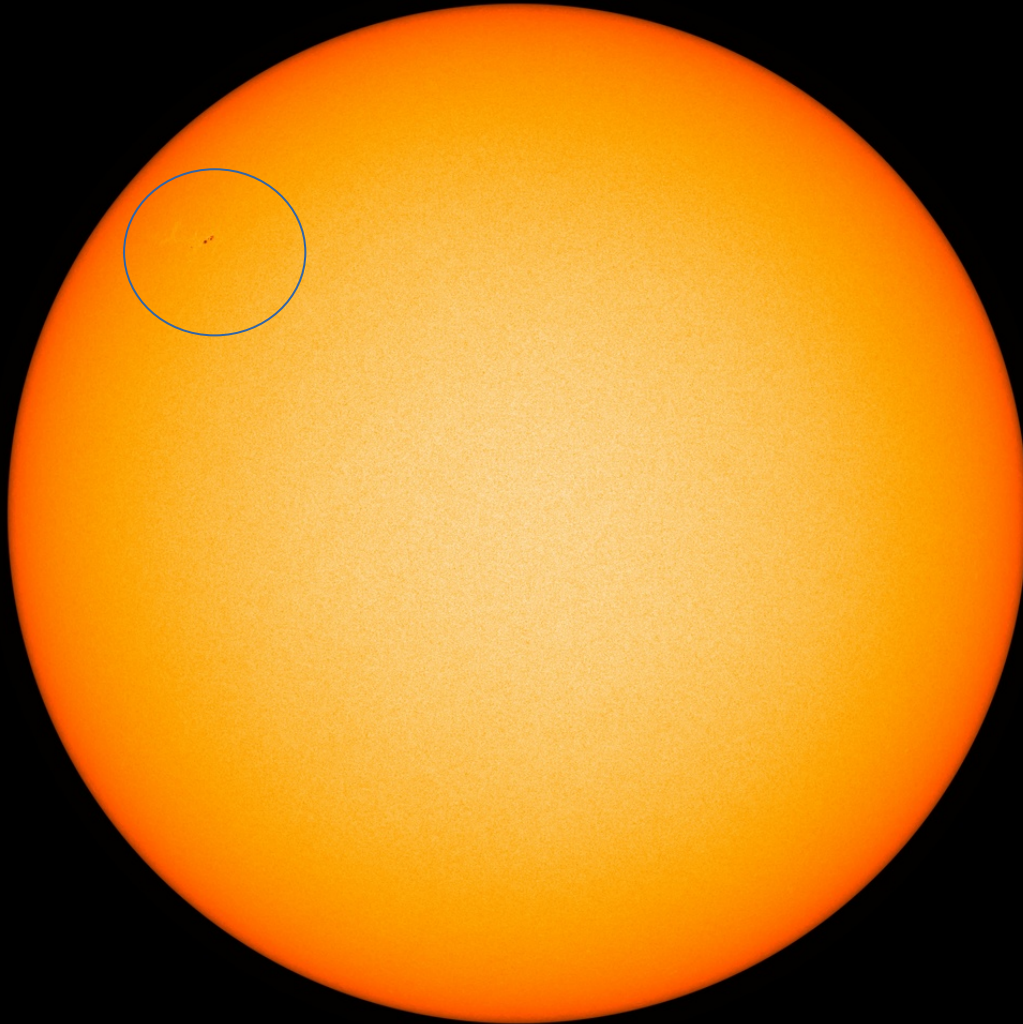
SDO/HMI Magnetogram 2020-03-29



SDO/HMI Quick-Look Magnetogram: 20200329_114500

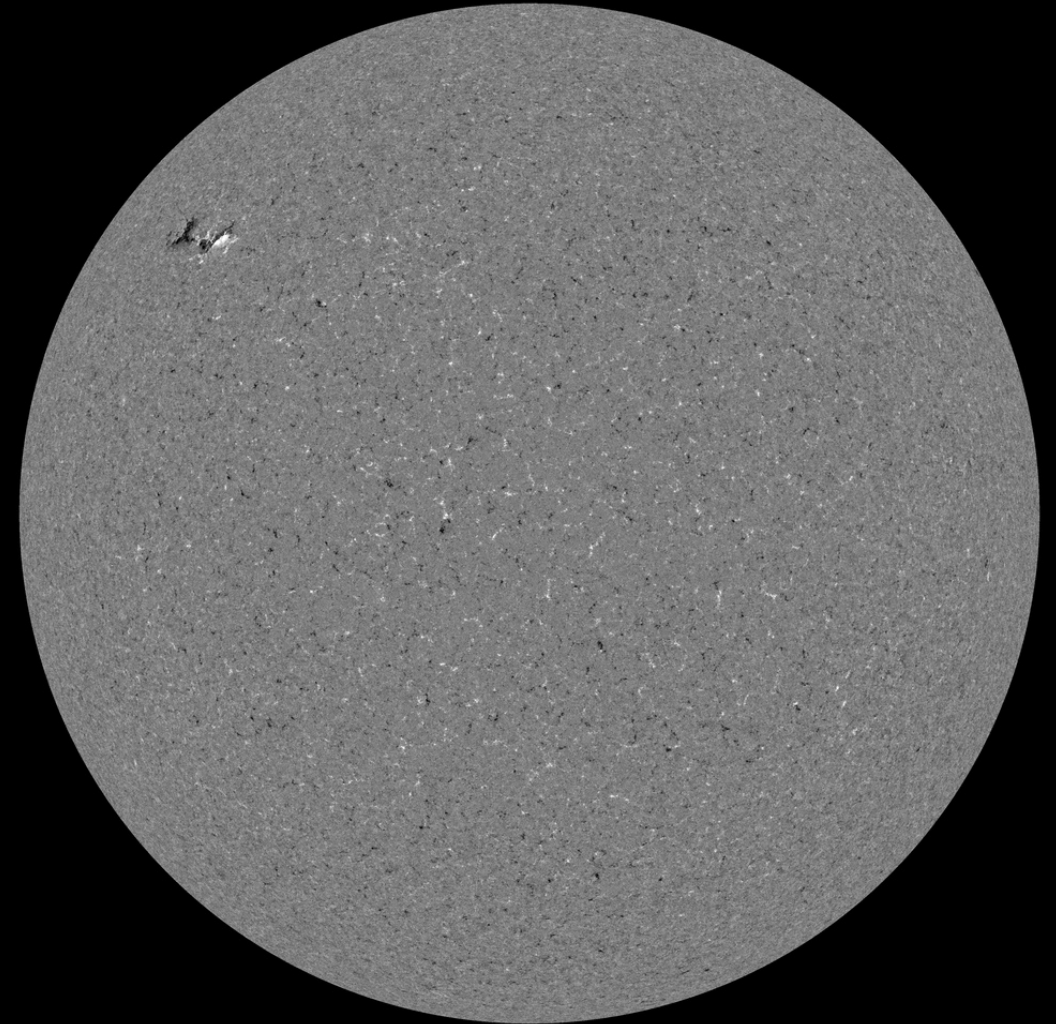
Solar active region - middle of the week

SDO/HMI White Light 2020-04-01



SDO/HMI Quick-Look Continuum: 20200401_114500

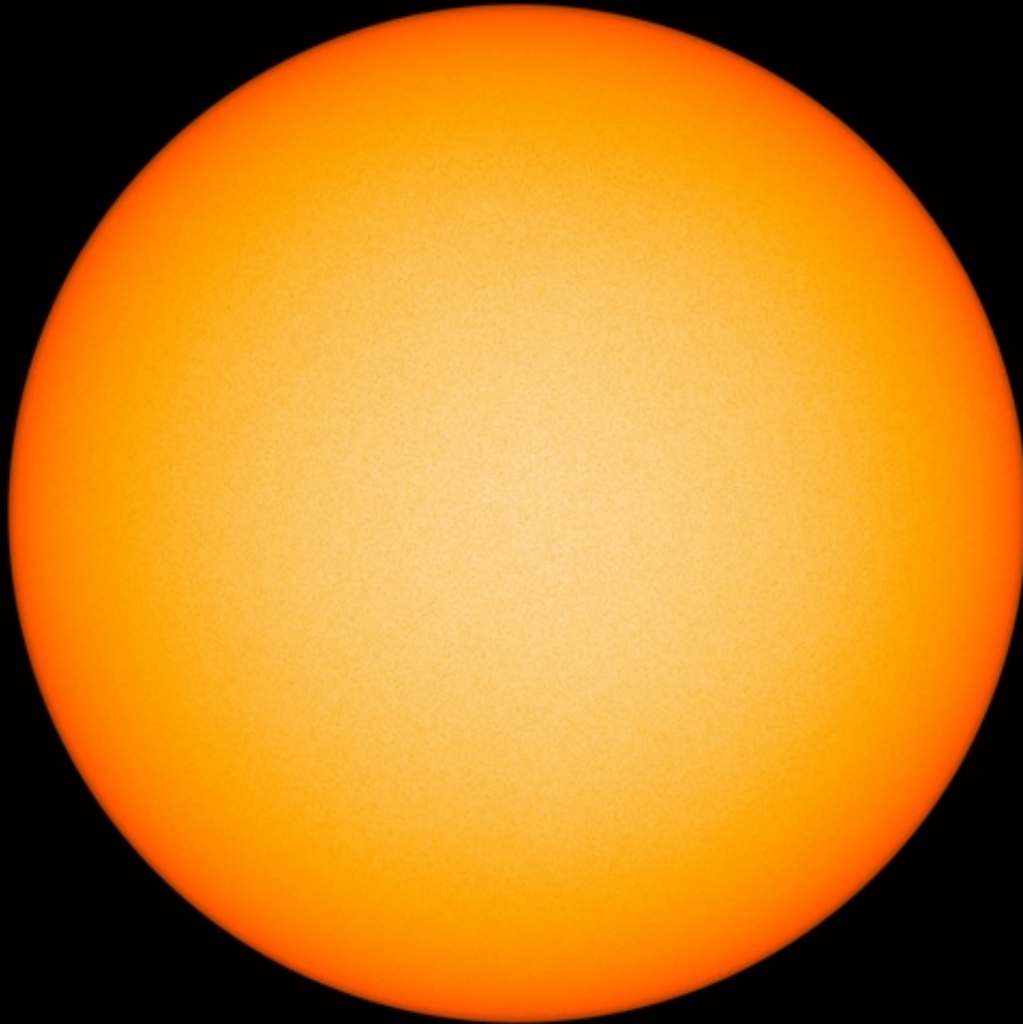
SDO/HMI Magnetogram 2020-04-01



SDO/HMI Quick-Look Magnetogram: 20200401_114500

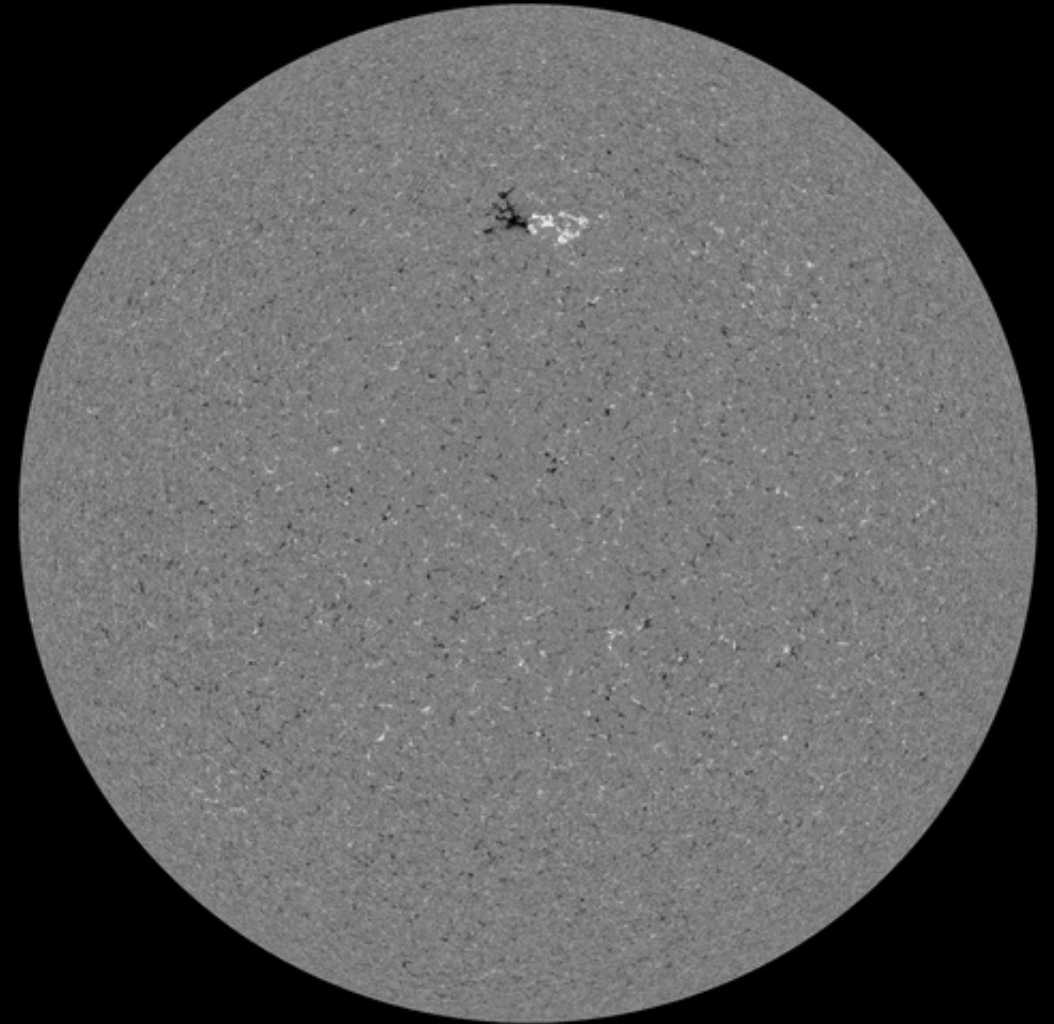
Solar active region - end of the week

SDO/HMI White Light 2020-04-05



SDO/HMI Quick-Look Continuum: 20200405_050000

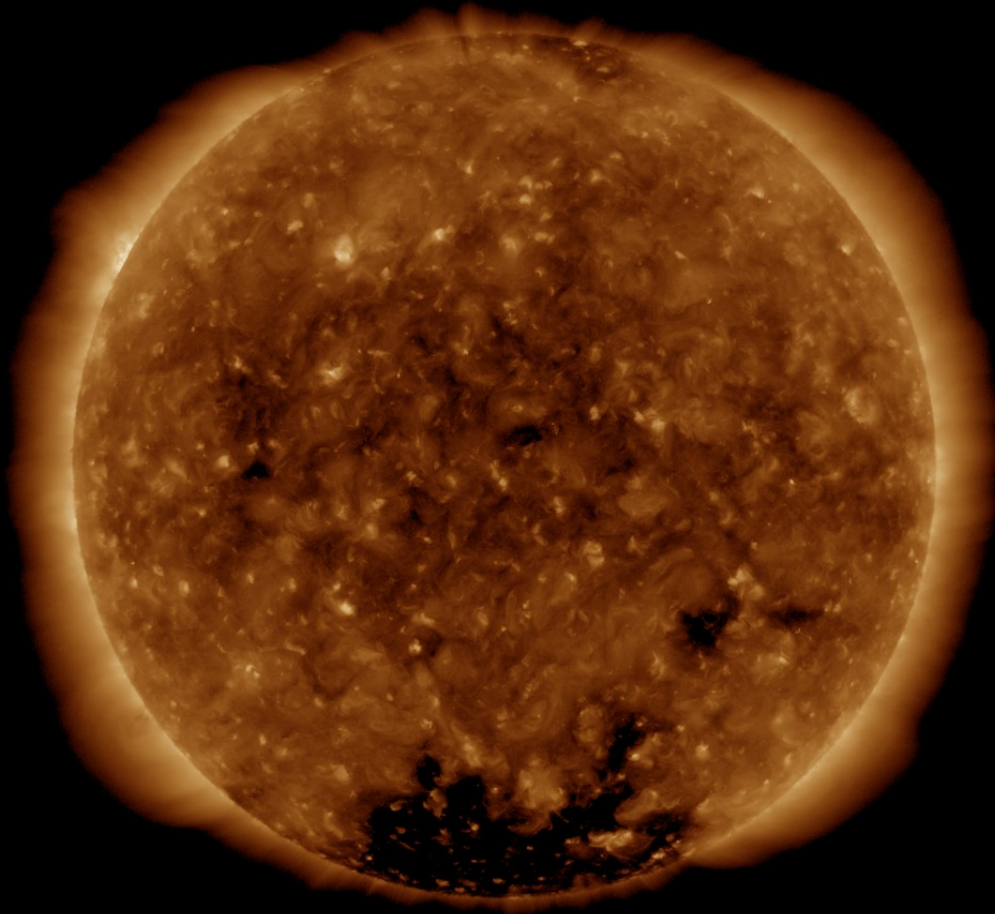
SDO/HMI Magnetogram 2020-04-05



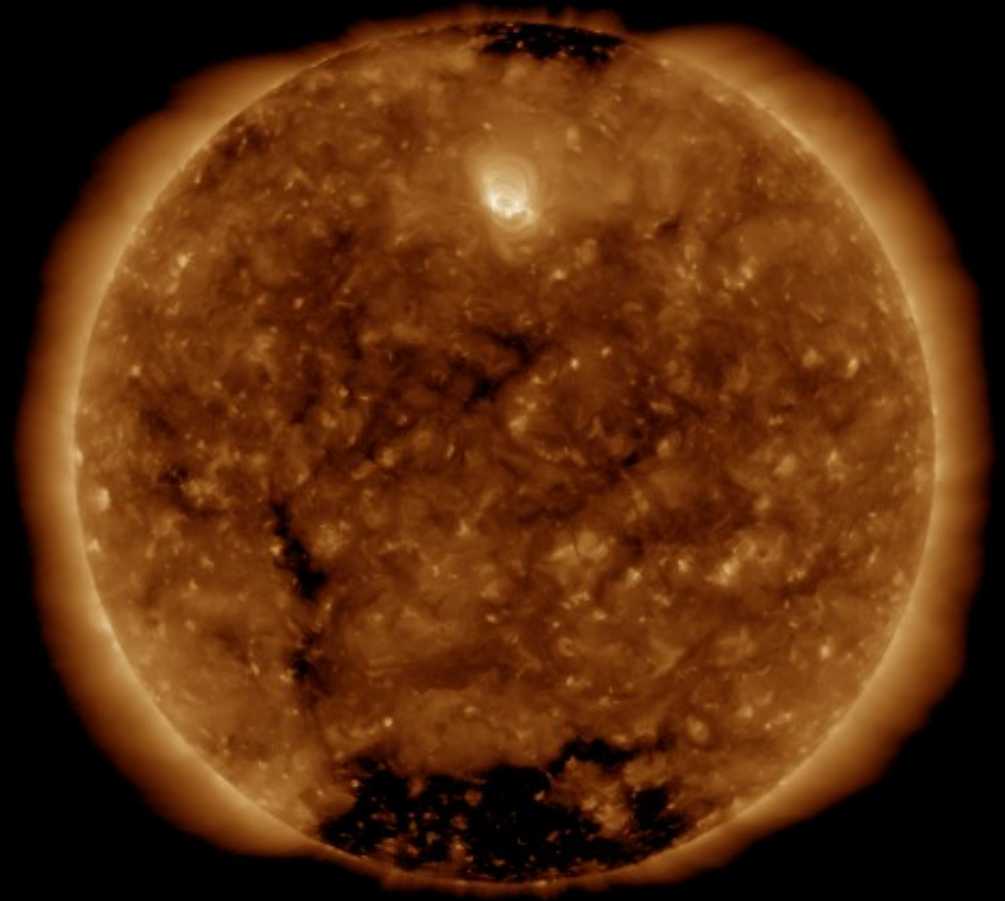
SDO/HMI Quick-Look Magnetogram: 20200405_050000

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2020-03-29



SDO/AIA 19.3 nm 2020-04-05

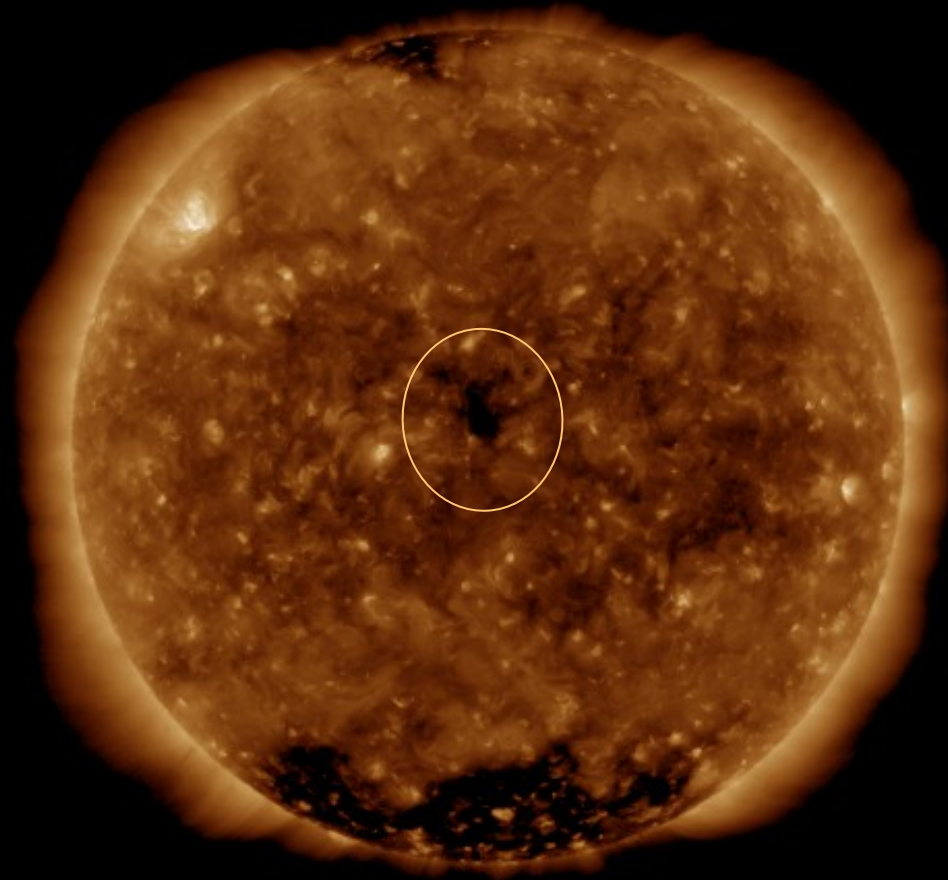


SDO/AIA 193 2020-03-29 12:10:17 UT

SDO/AIA 193 2020-04-05 04:55:17 UT

Solar active region & Coronal hole

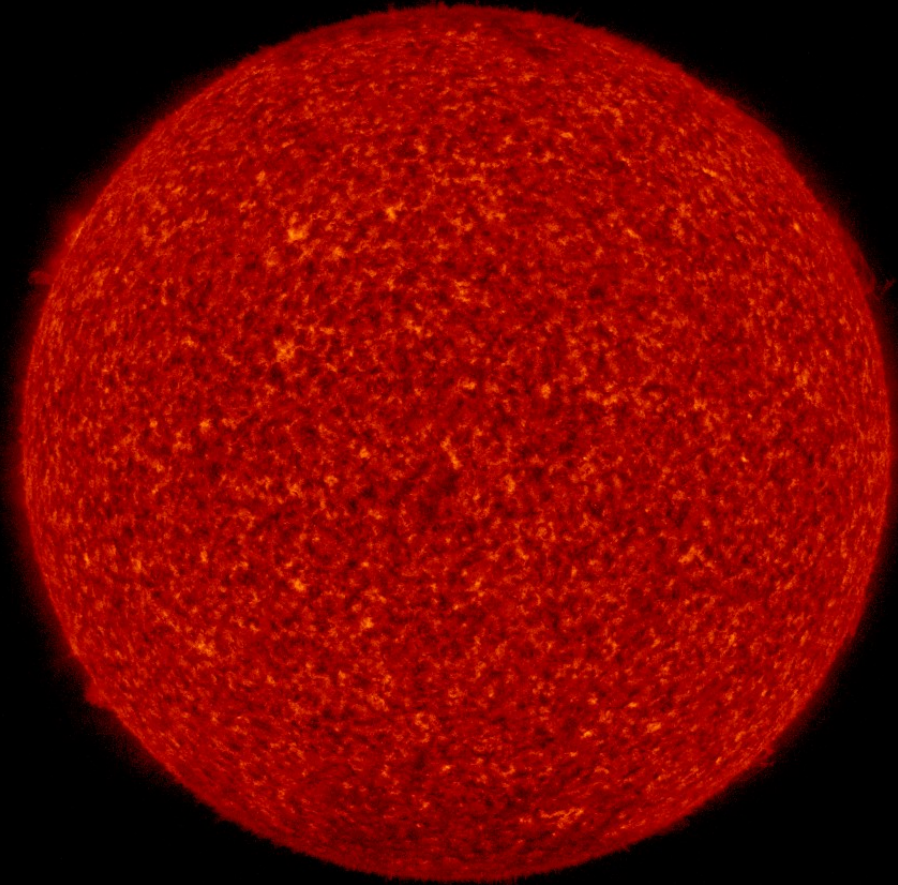
SDO/AIA 19.3 nm 2020-04-01



SDO/AIA 193 2020-04-01 02:25:53 UT

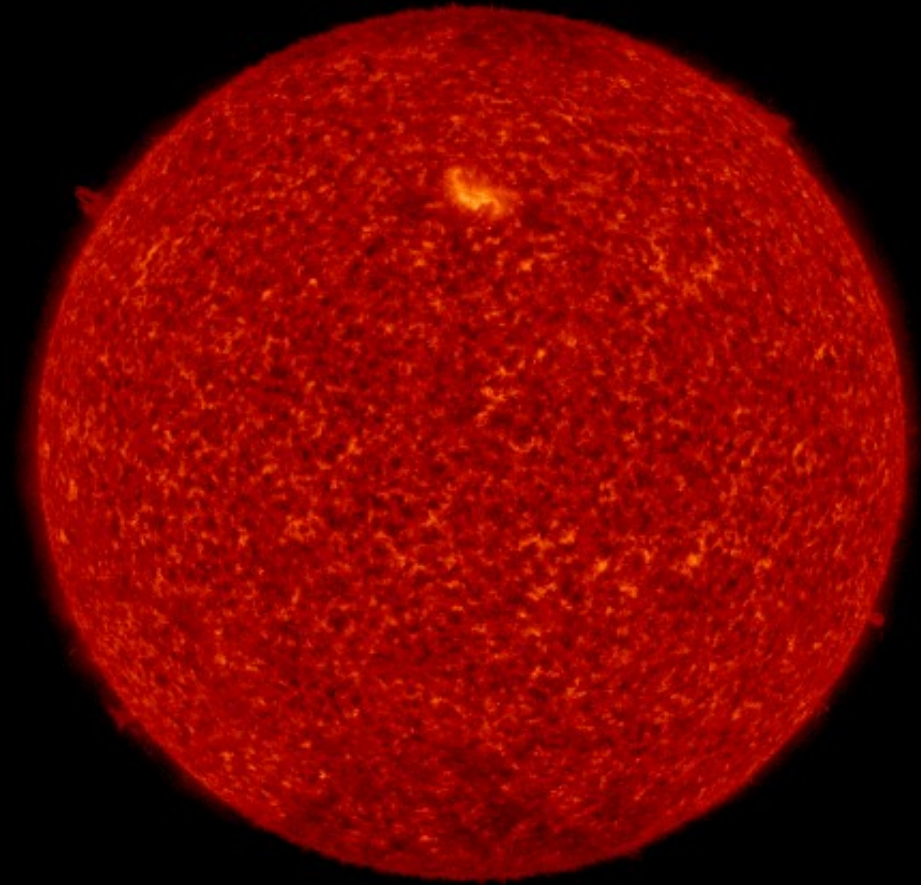
Solar active region & Filament

SDO/AIA 30.4 nm 2020-03-29



SDO/AIA 304 2020-03-29 12:13:30 UT

SDO/AIA 30.4 nm 2020-04-05



SDO/AIA 304 2020-04-05 04:59:06 UT

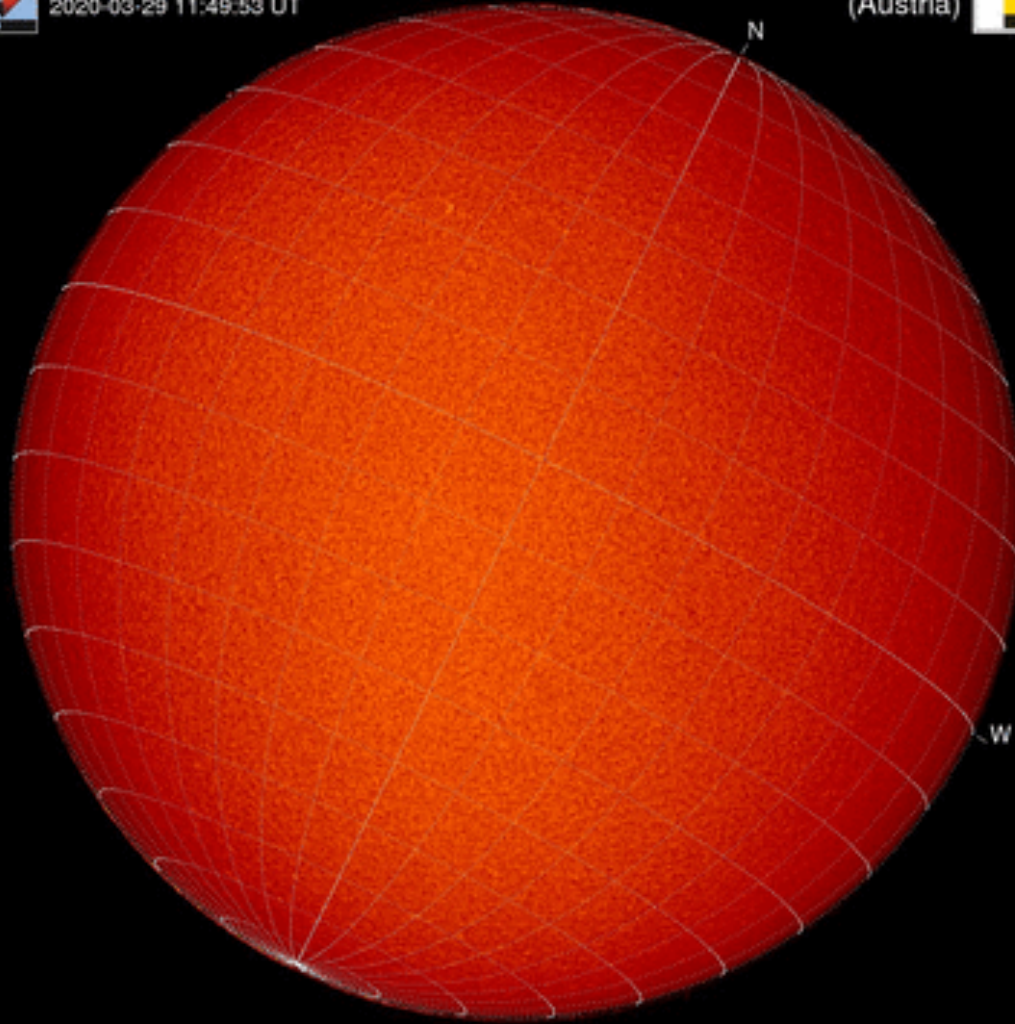
Filament & Filament eruption

H-alpha 2020-03-29



Kanzelhöhe Observatory
2020-03-29 11:49:53 UT

University of Graz
(Austria)

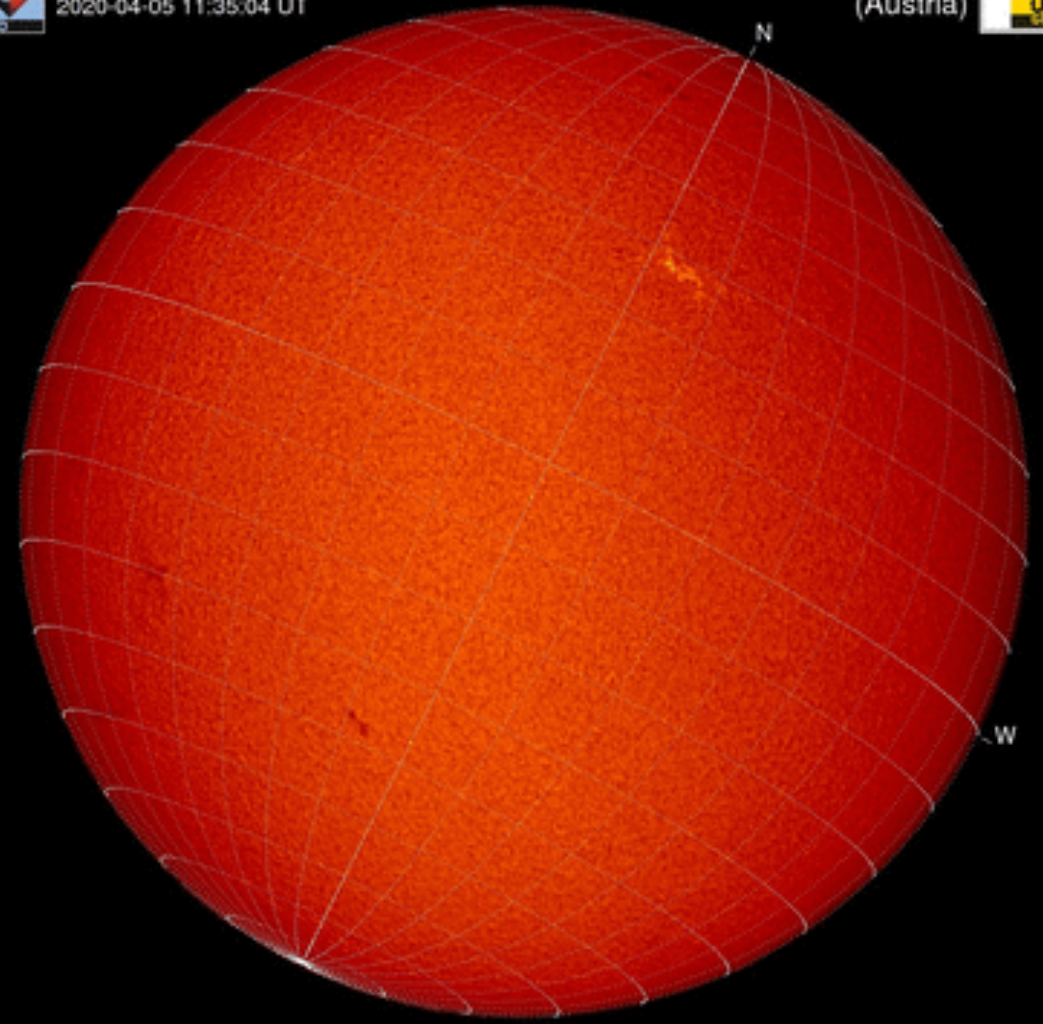


H-alpha 2020-04-05

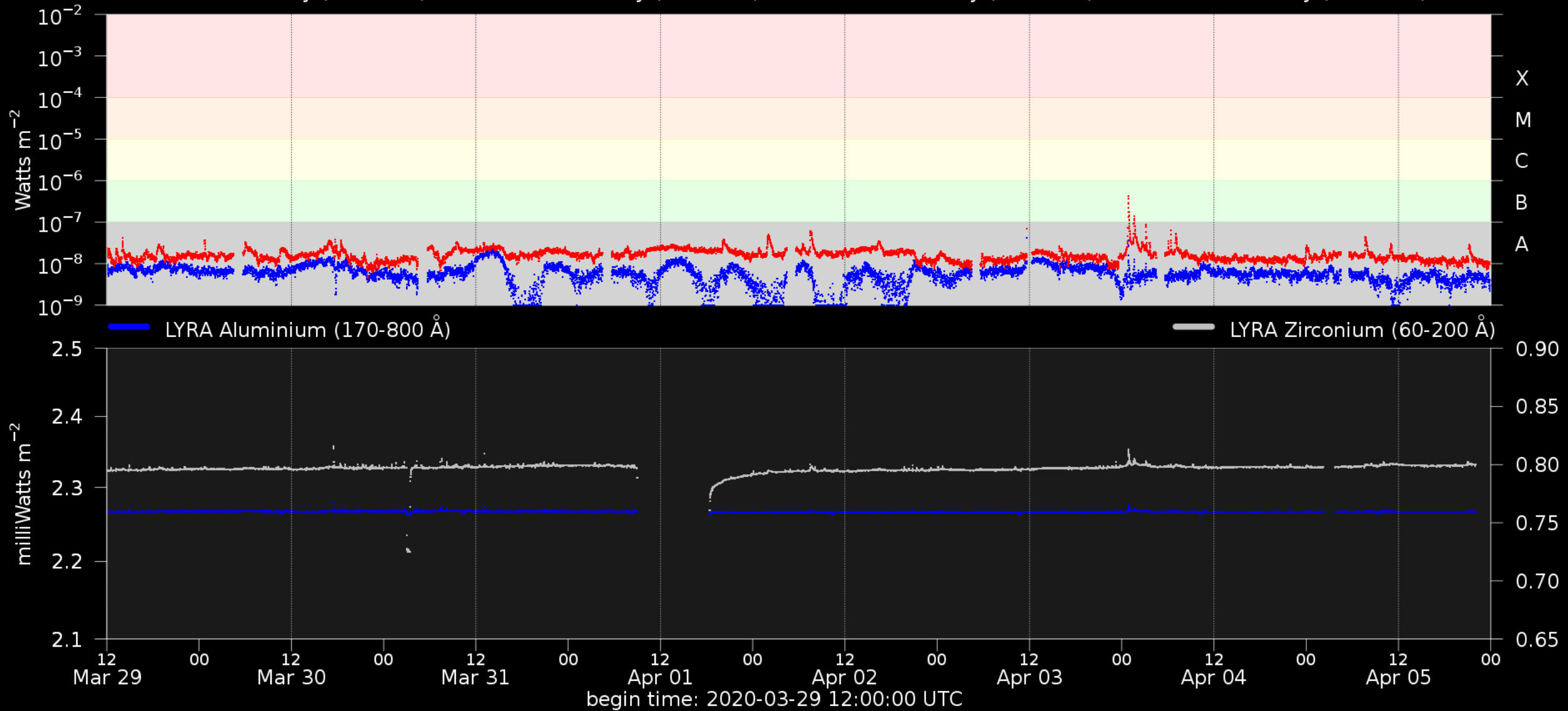


Kanzelhöhe Observatory
2020-04-05 11:35:04 UT

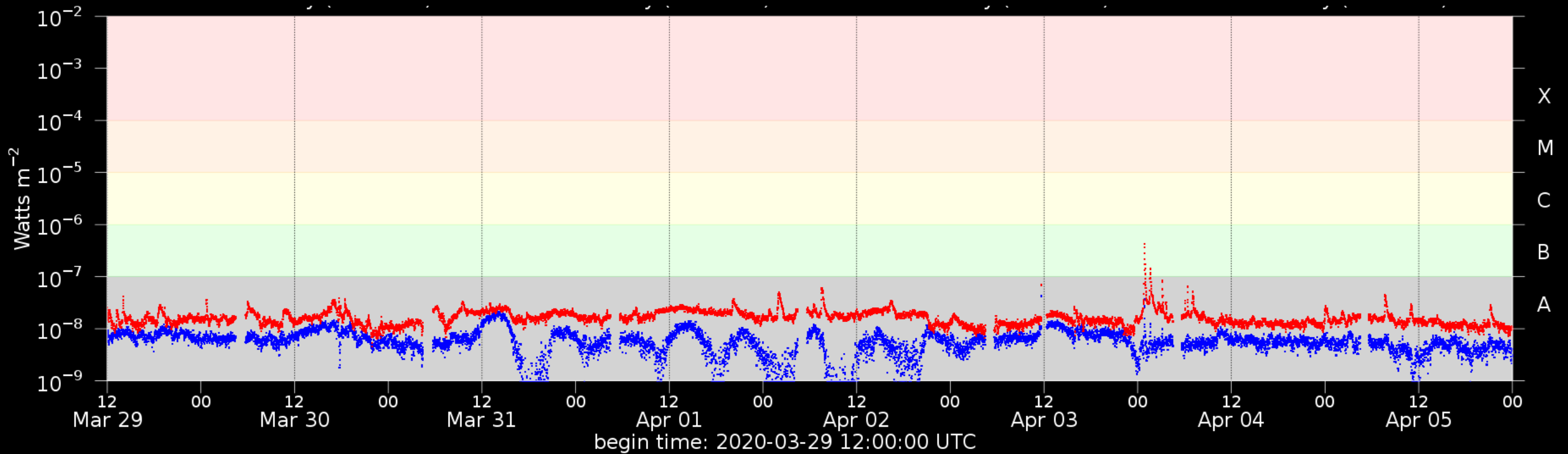
University of Graz
(Austria)



Solar X-Ray and UV flux



Flaring activity

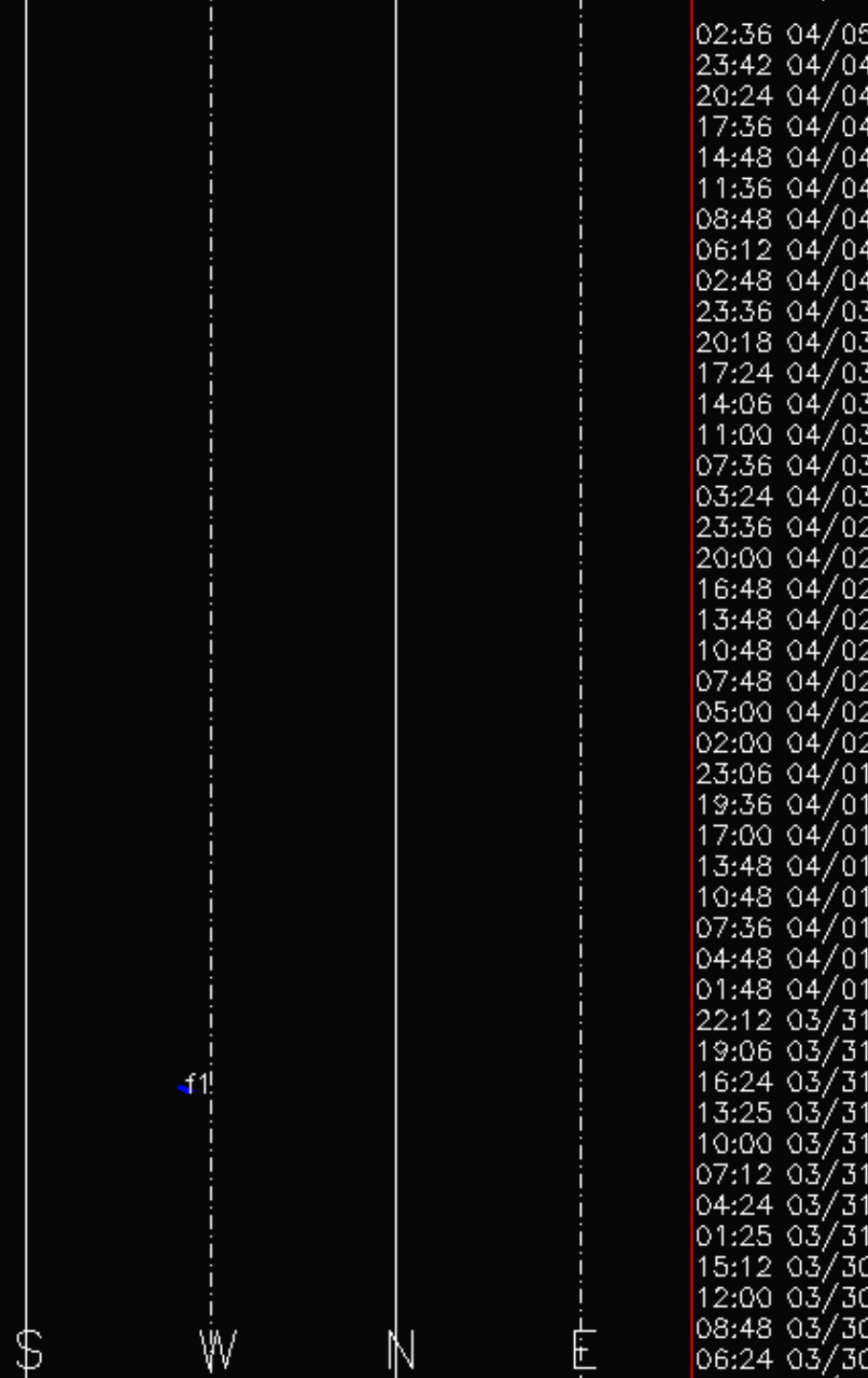


Probabilities (%) and occurrences (#) of B/C/M/X-flares issued at 12:30 and over the next 24h:

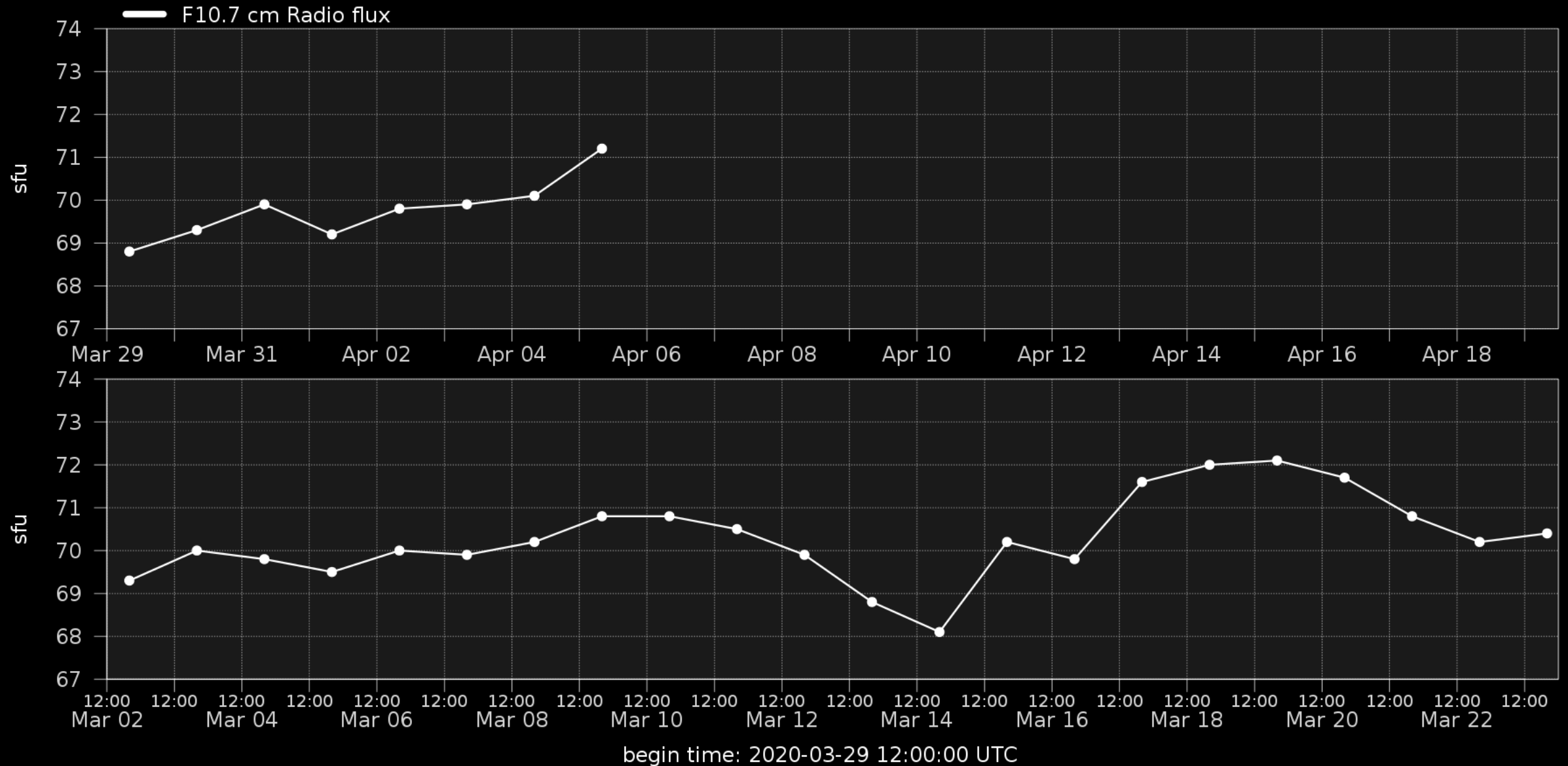
Issue date	2020-03-29	2020-03-30	2020-03-31	2020-04-01	2020-04-02	2020-04-03	2020-04-04	2020-04-05
Probability	--- 01 01 0 1	--- 01 01 0 1	--- 05 01 0 1	--- 05 01 0 1	--- 05 01 0 1	--- 05 01 0 1	--- 05 01 0 1	--- 05 01 0 1
Observed	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	02 00 00 00	00 00 00 00	00 00 00 00

Coronal Mass Ejection

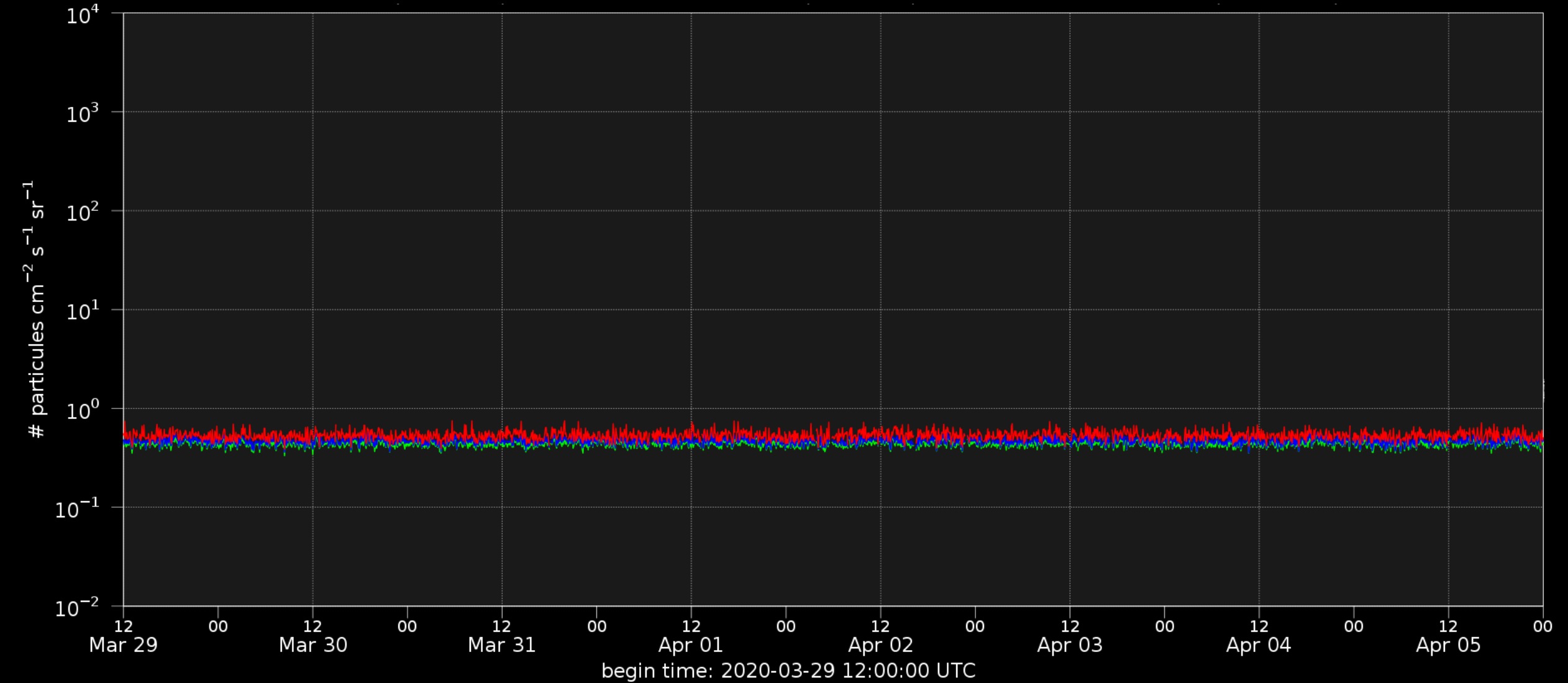
No Earth directed CMEs



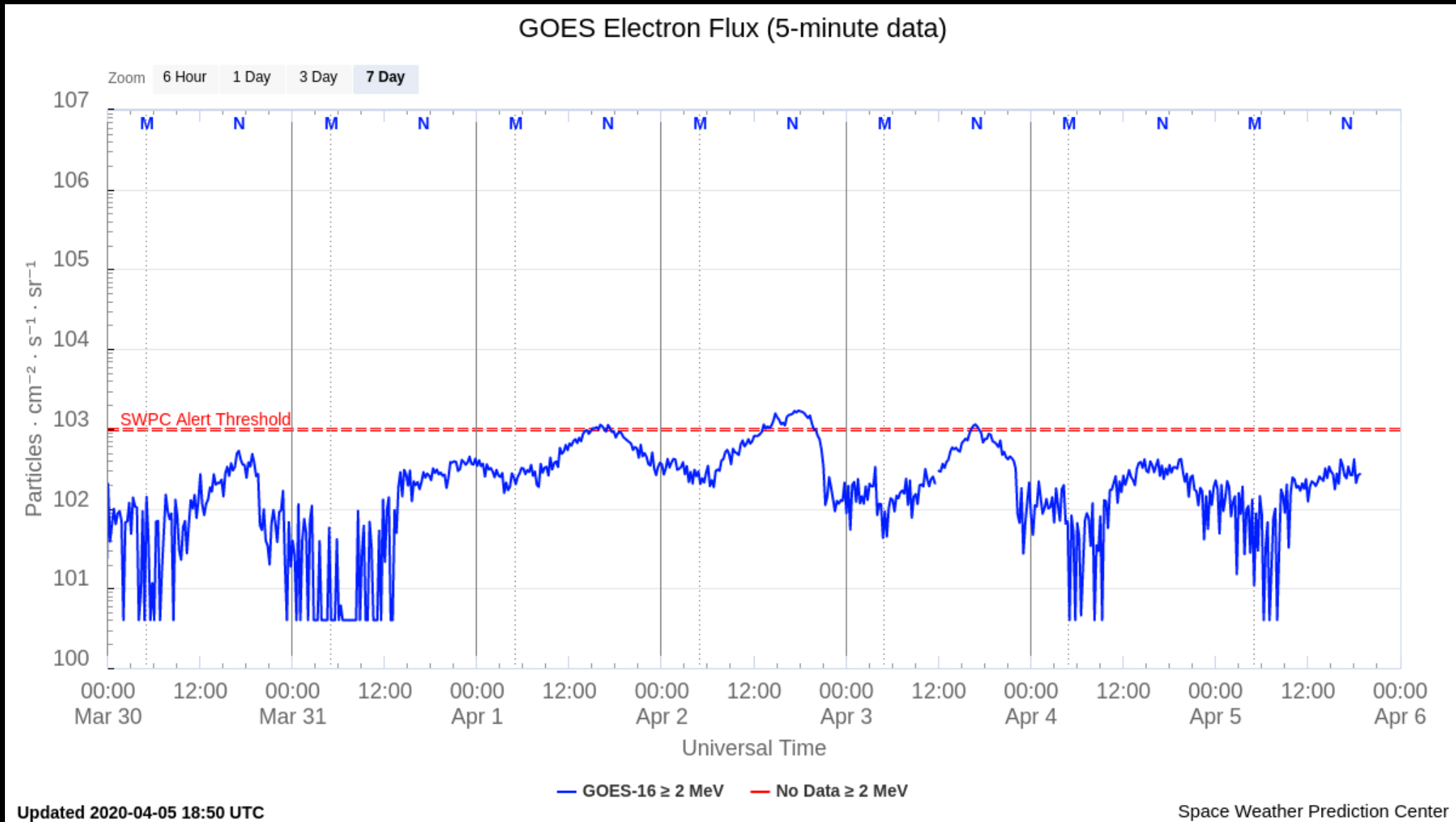
Solar F10.7cm radio flux



Solar proton flux



Solar electron flux



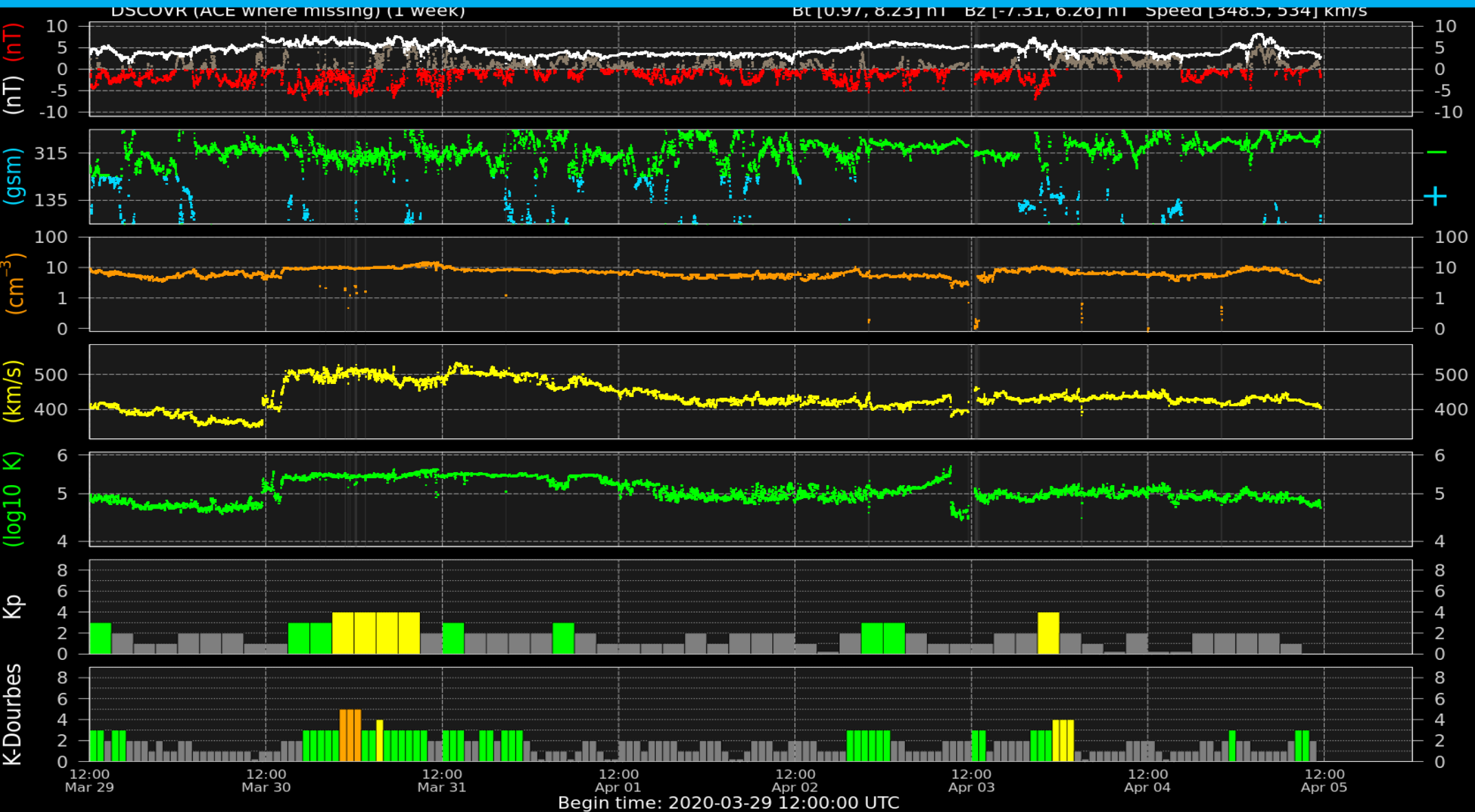
Solar Wind and Geomagnetic Activity



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Solar wind parameters (DSCOVR data)



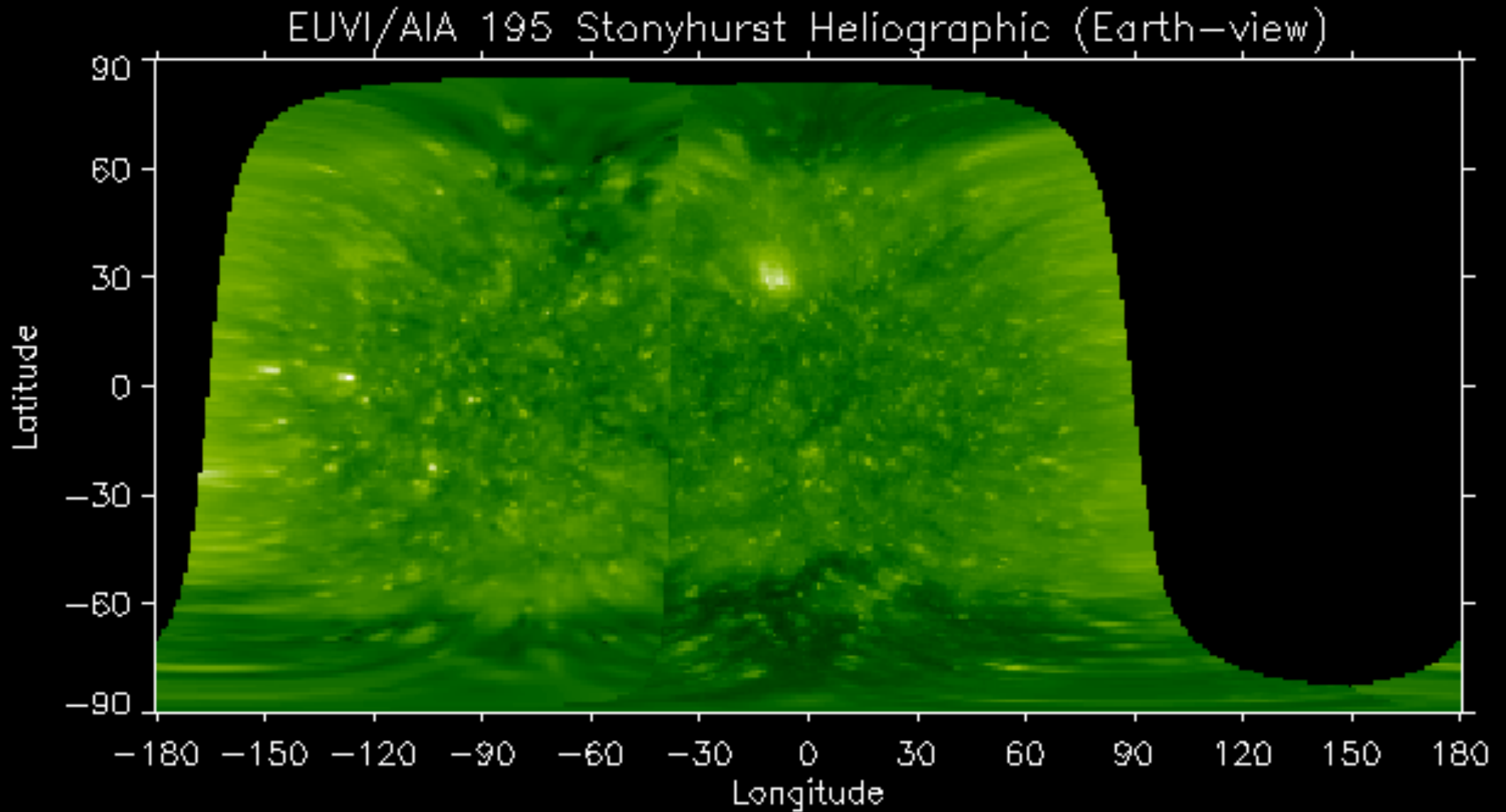
Outlook



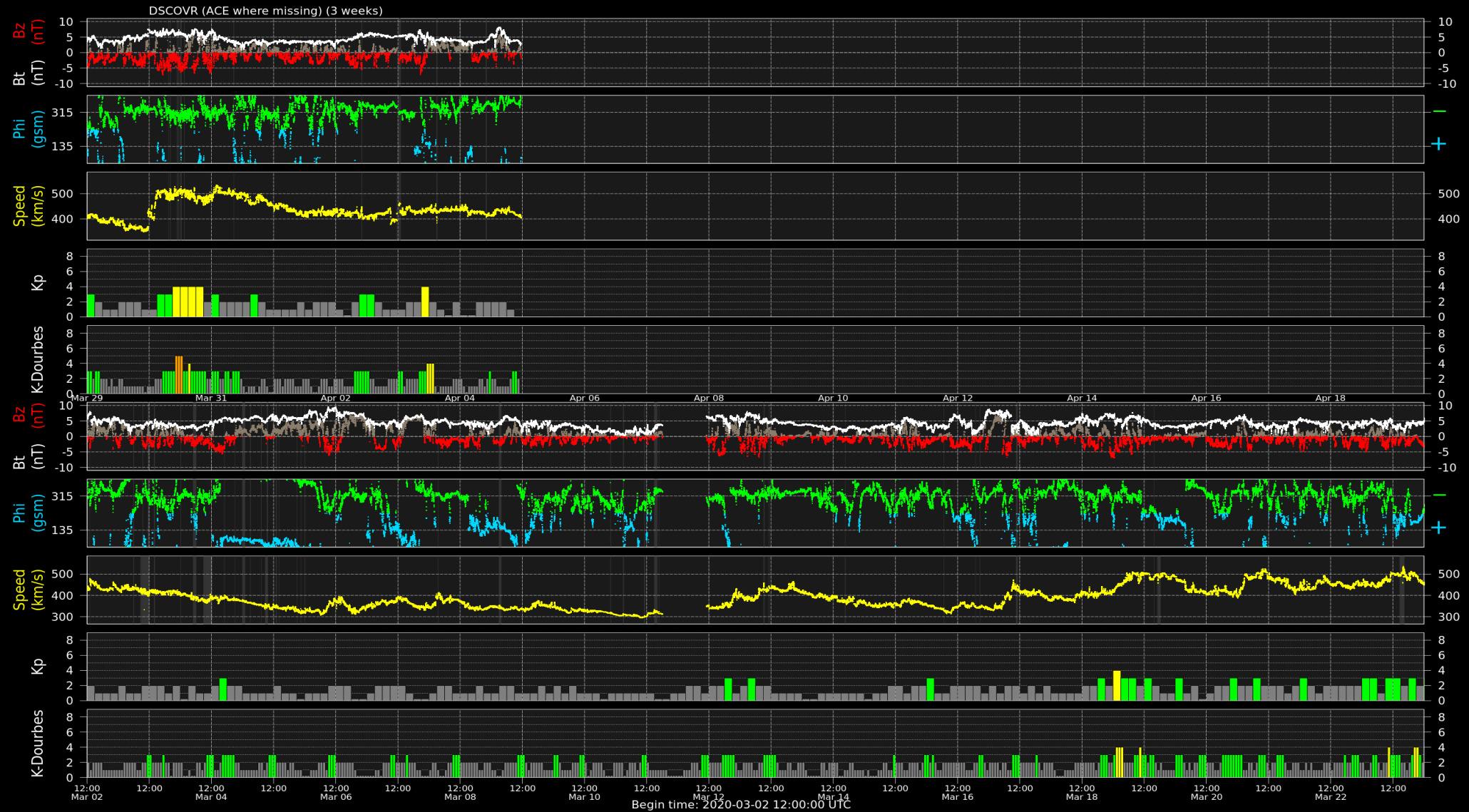
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Outlook: Solar activity



Outlook



SIDC Space Weather Briefing

See you at our next briefing!

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