

SIDC Space Weather Briefing

26 April 2020 - 03 May 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 2020-04-26 12:00 UT to 2020-05-03 12:00 UT

Active regions	AR2760, AR2761, AR2762, AR2763
Flaring	# B-class flare: 2 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	Multiple filaments visible on disk with one filament eruption with possible Earth directed component.
CMEs	No Earth directed CMEs observed in LASCO
Proton Events	None

Solar wind and geomagnetic conditions from 2020-04-26 12:00 UT to 2020-05-03 12:00 UT

Coronal Holes	One positive and one negative small, patchy coronal holes transited central meridian
ICME	None
SW Conditions	Nominal conditions: speed ranged between 260 – 450 km/s
K-indices	max K-index (Dourbes): 3.0 max Kp-index (NOAA): 3

All Quiet Alert: On all week

Solar Activity

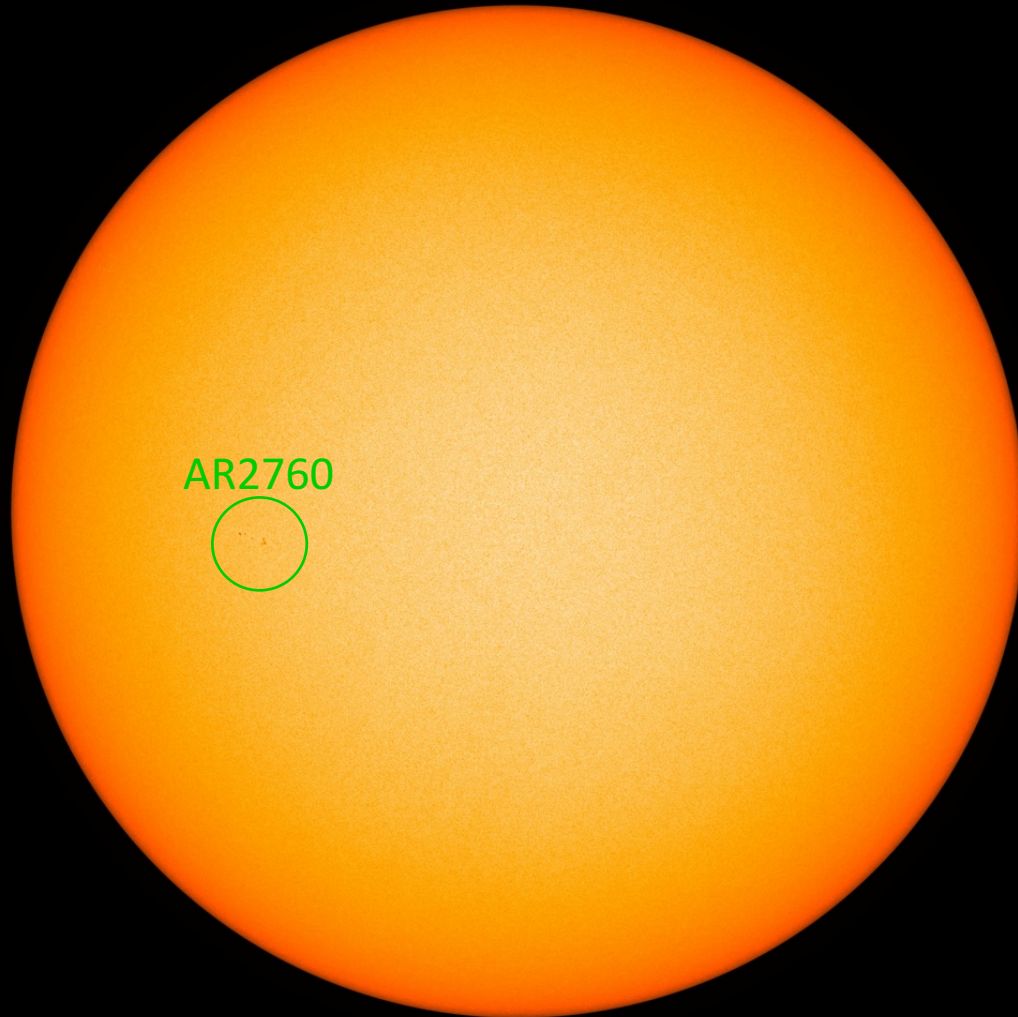


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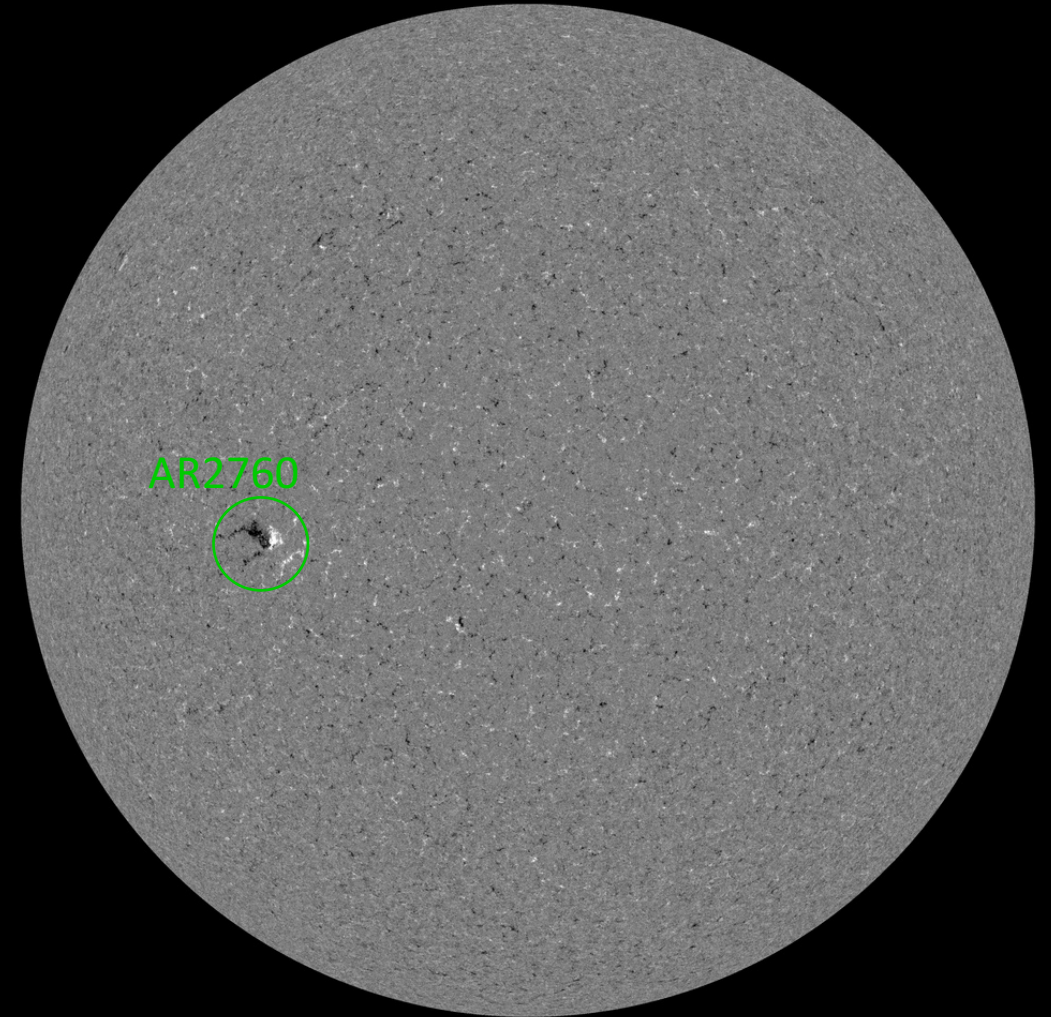
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Solar active region - start of the week

SDO/HMI White Light 2020-04-26

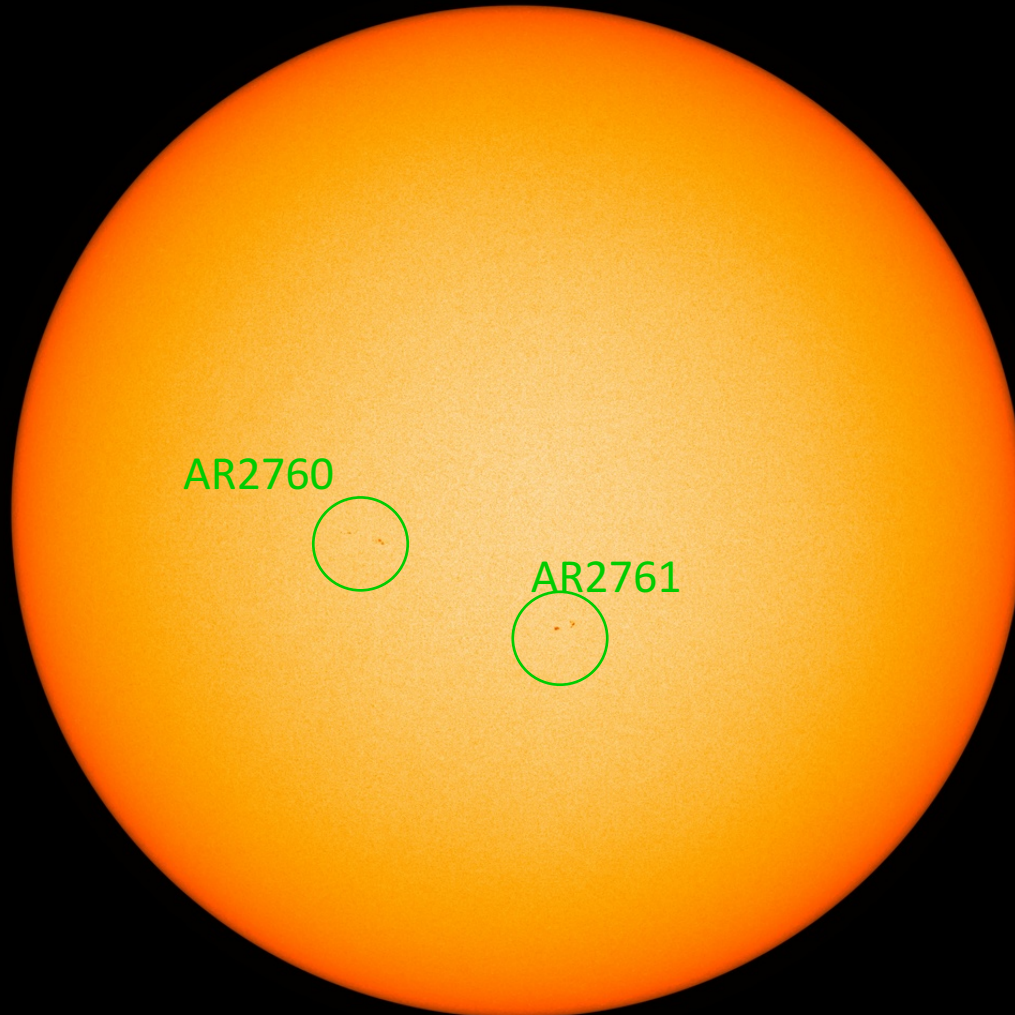


SDO/HMI Magnetogram 2020-04-26



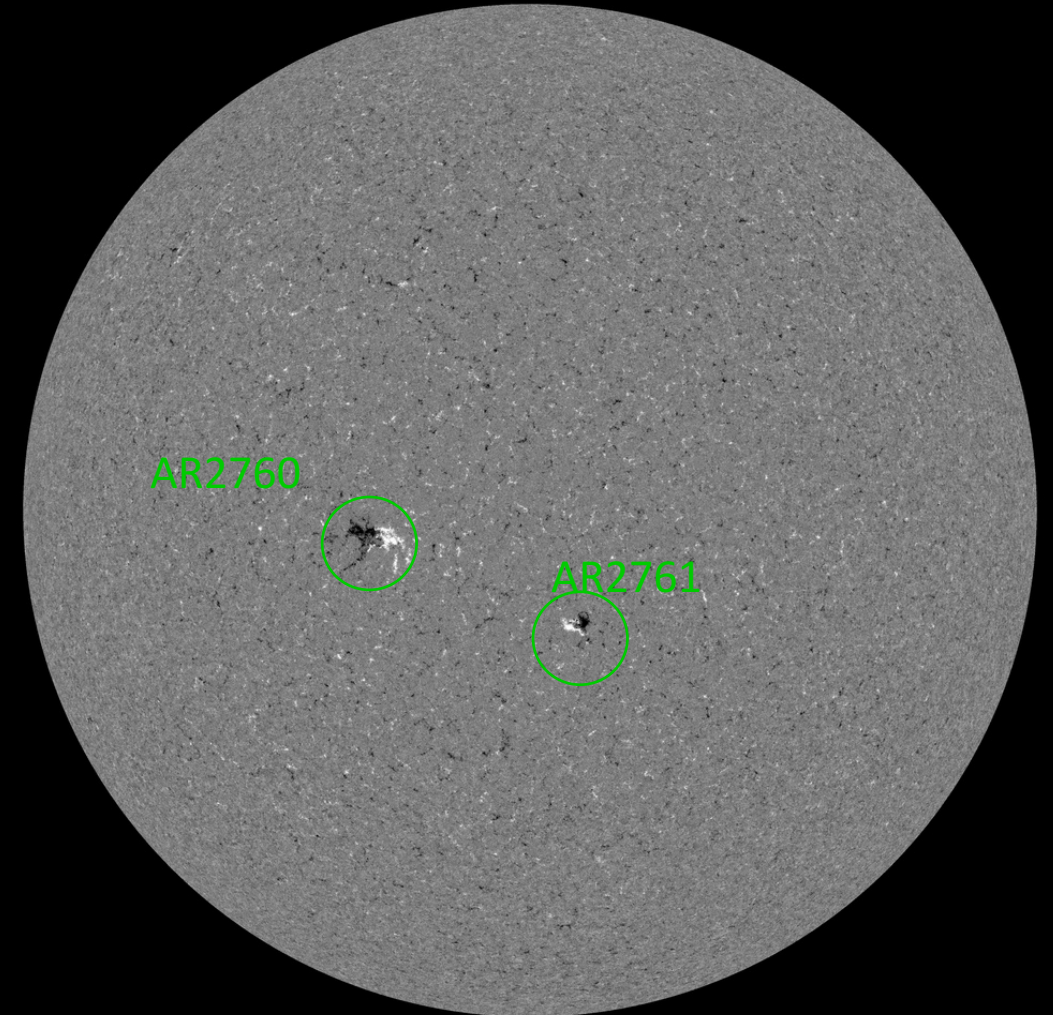
Solar active region - start of the week

SDO/HMI White Light 2020-04-27



SDO/HMI Quick-Look Continuum: 20200427_114500

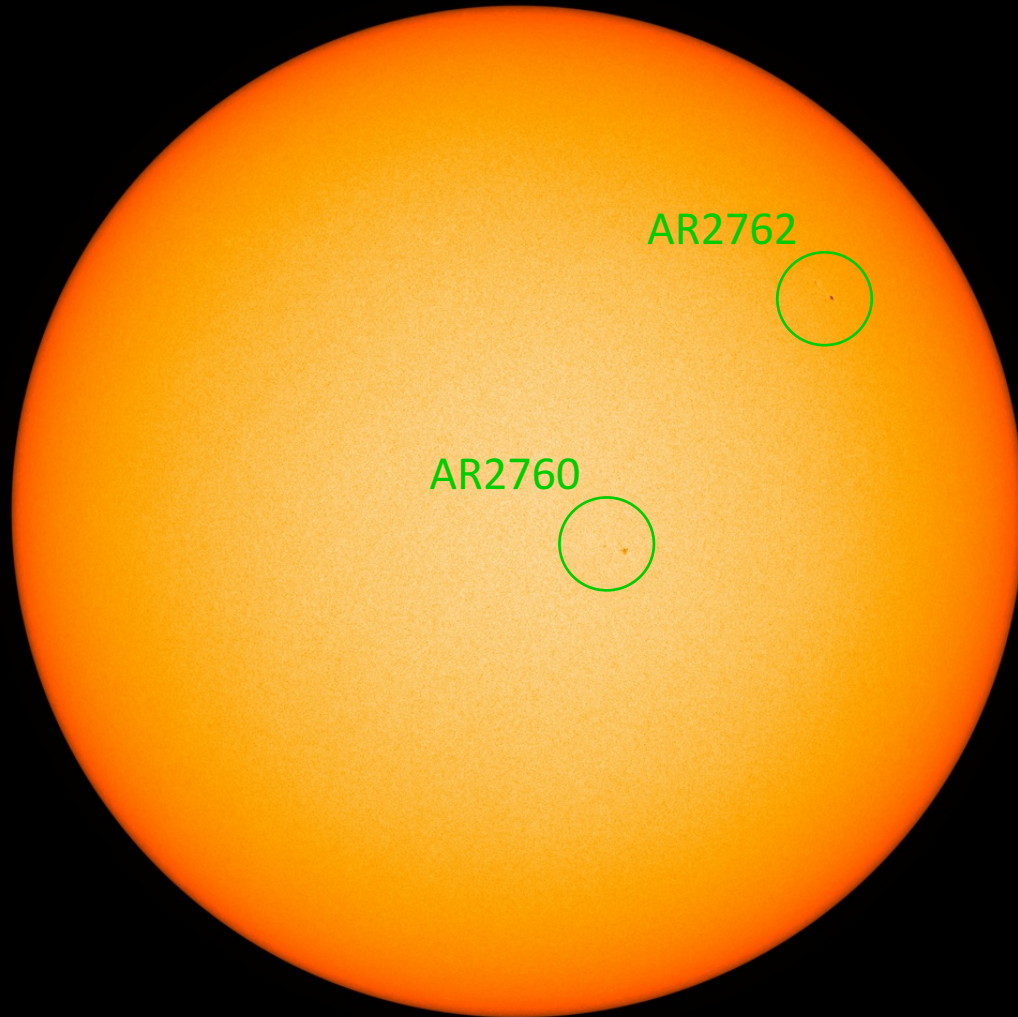
SDO/HMI Magnetogram 2020-04-27



SDO/HMI Quick-Look Magnetogram: 20200427_114500

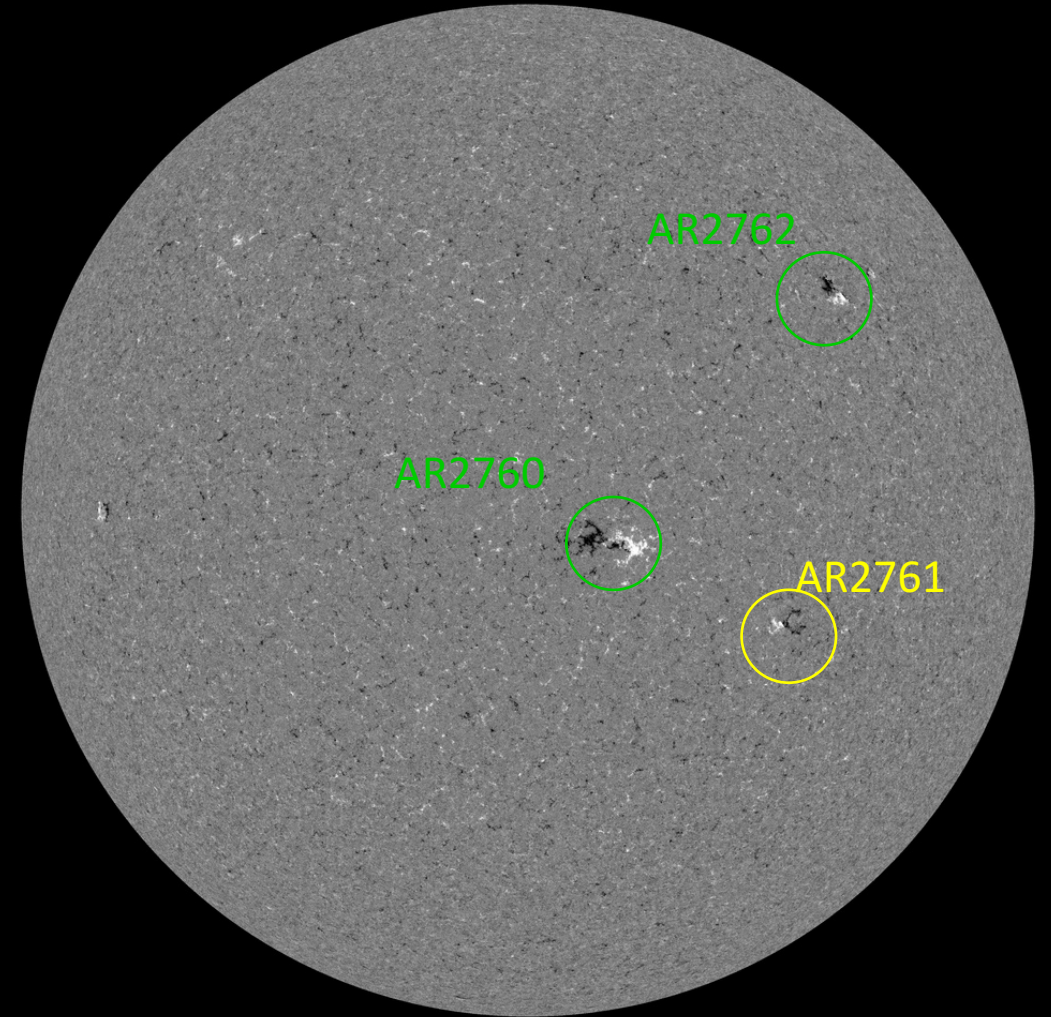
Solar active region - middle of the week

SDO/HMI White Light 2020-04-29



SDO/HMI Quick-Look Continuum: 20200429_114500

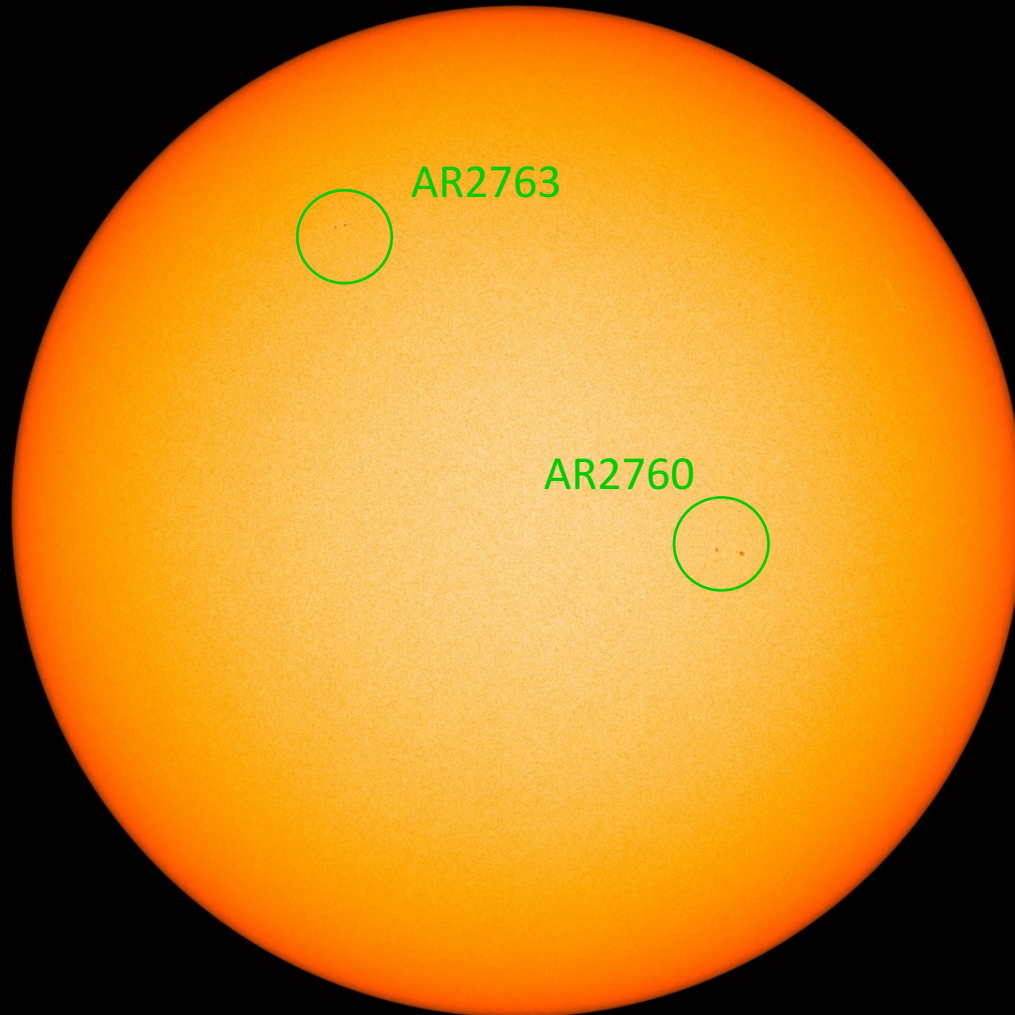
SDO/HMI Magnetogram 2020-04-29



SDO/HMI Quick-Look Magnetogram: 20200429_114500

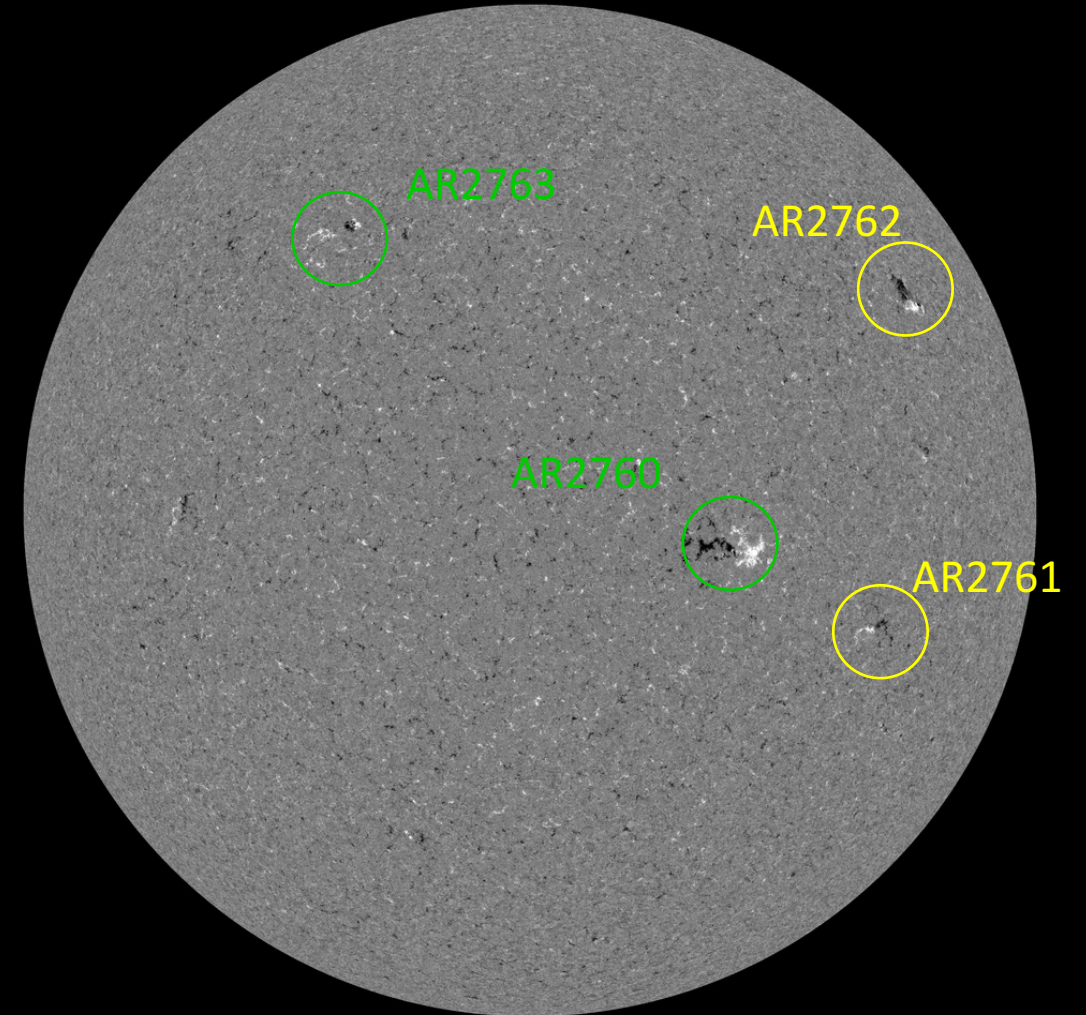
Solar active region - middle of the week

SDO/HMI White Light 2020-04-30



SDO/HMI Quick-Look Continuum: 20200430_114500

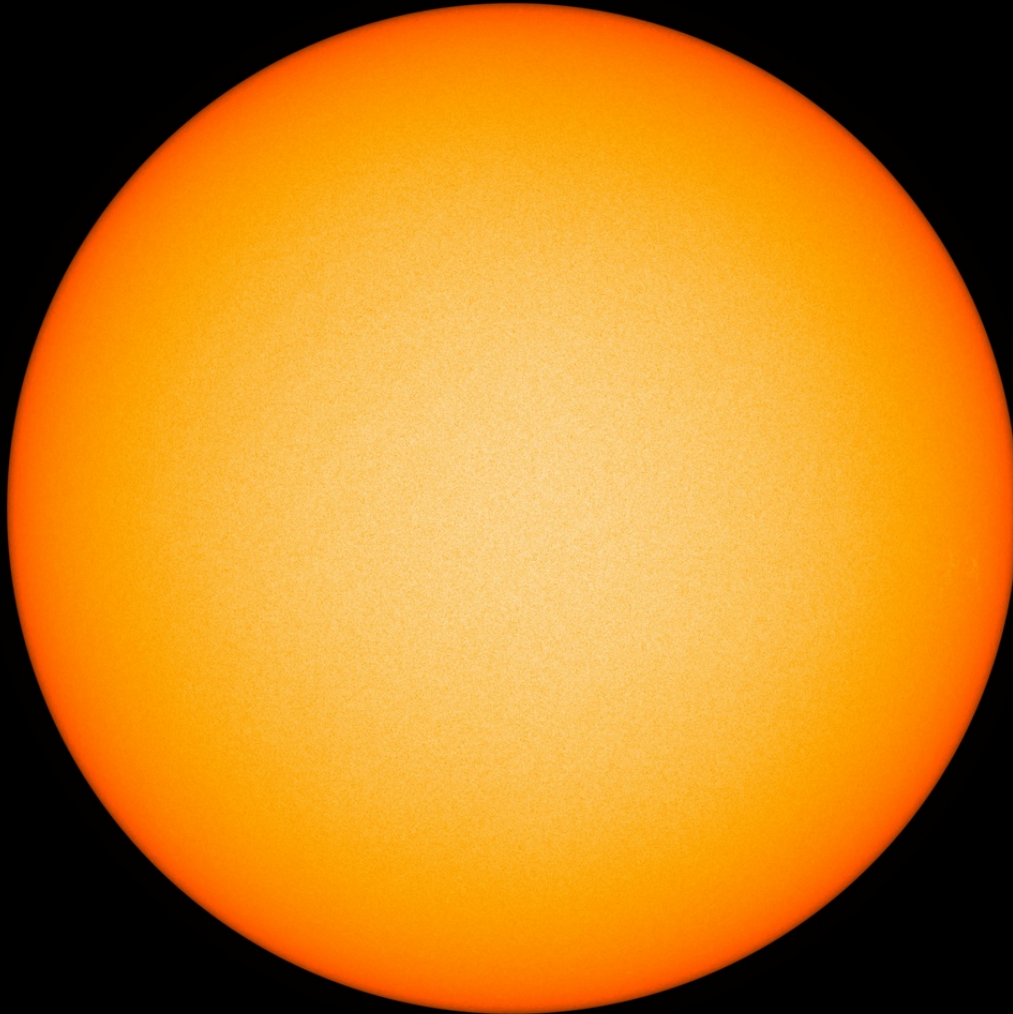
SDO/HMI Magnetogram 2020-04-30



SDO/HMI Quick-Look Magnetogram: 20200430_114500

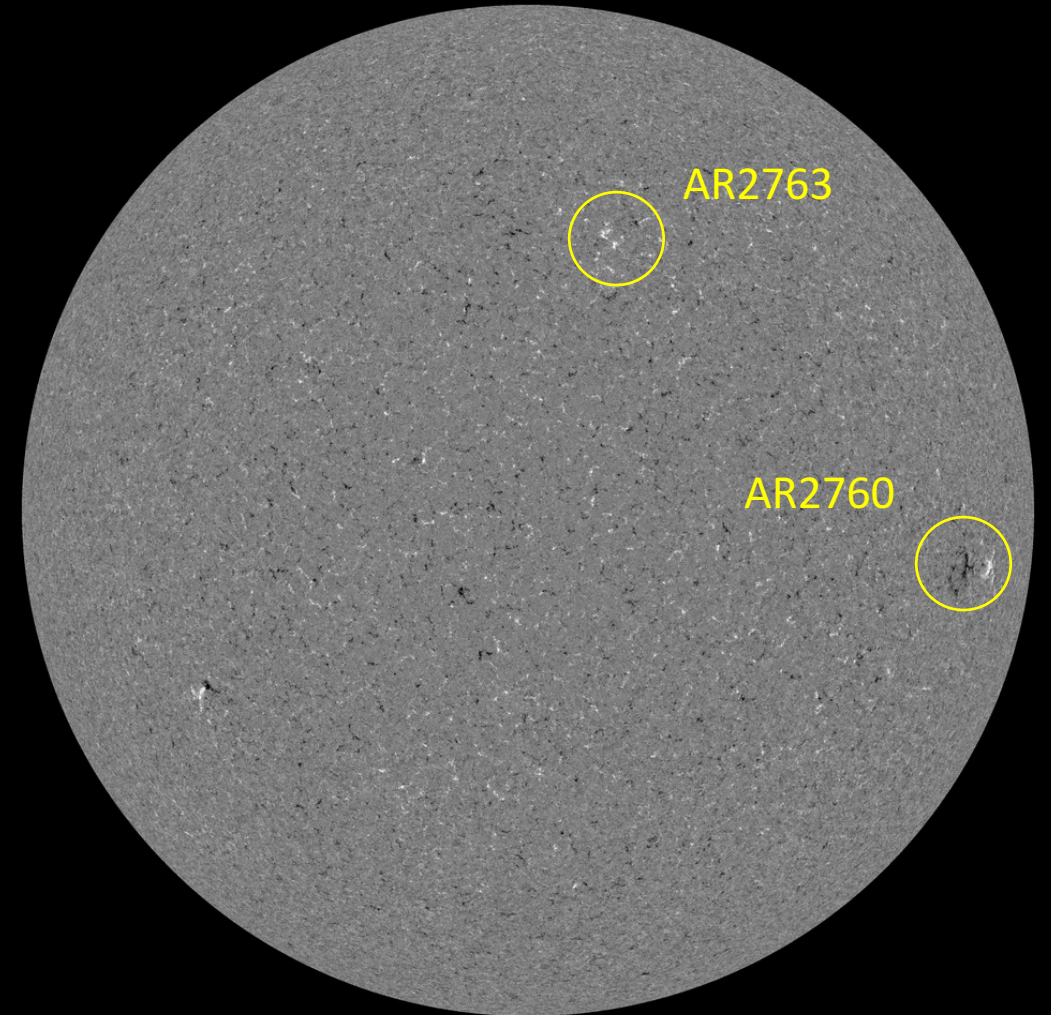
Solar active region - end of the week

SDO/HMI White Light 2020-05-03



SDO/HMI Quick-Look Continuum: 20200503_114500

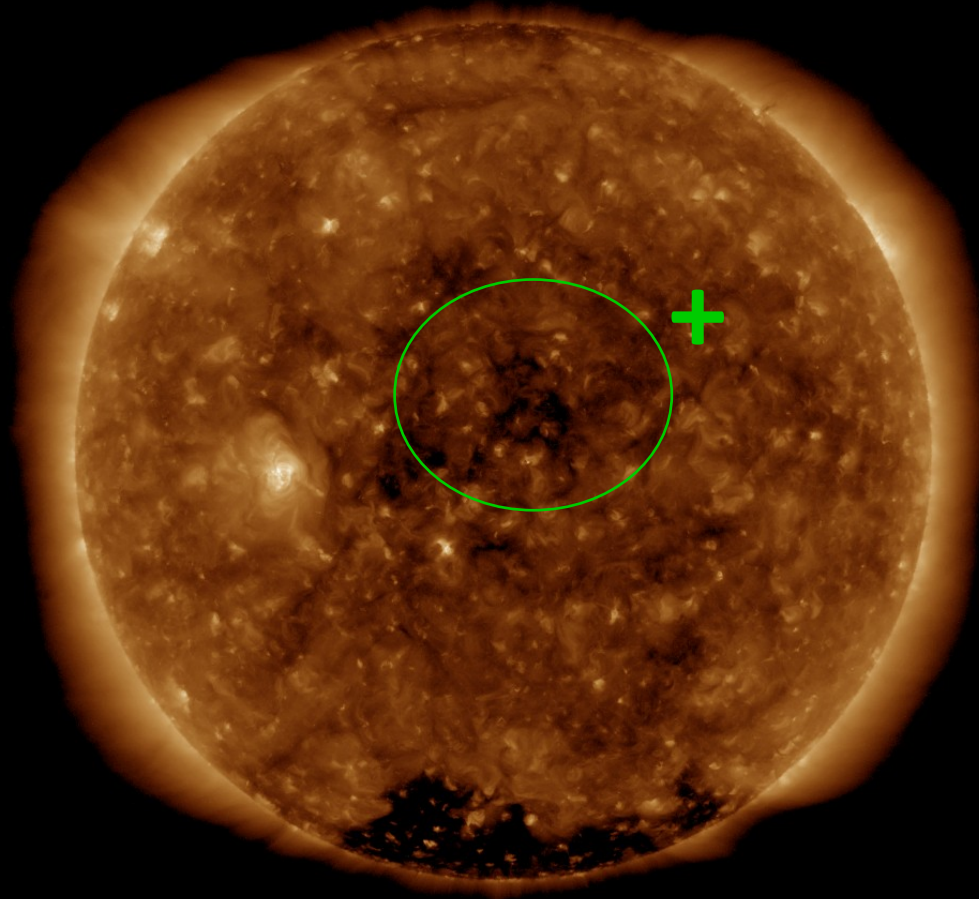
SDO/HMI Magnetogram 2020-05-03



SDO/HMI Quick-Look Magnetogram: 20200503_114500

Solar active region & Coronal hole

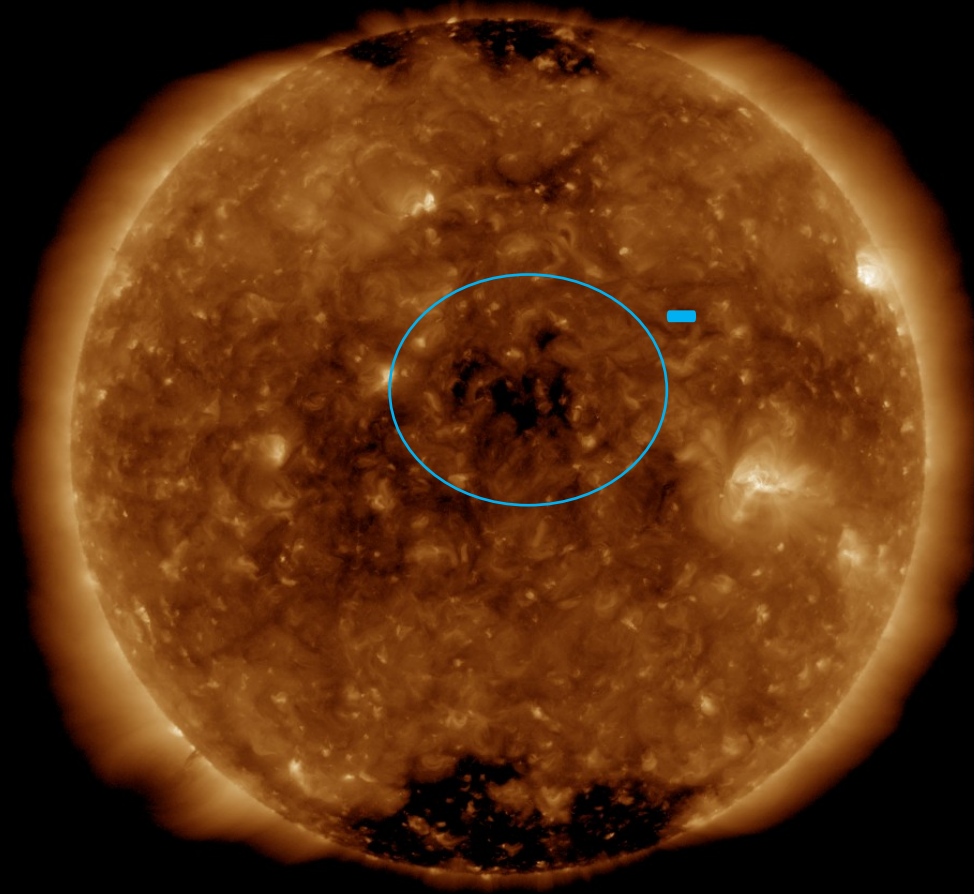
SDO/AIA 19.3 nm 2020-04-26



SDO/AIA 193 2020-04-26 12:10:29 UT

Solar active region & Coronal hole

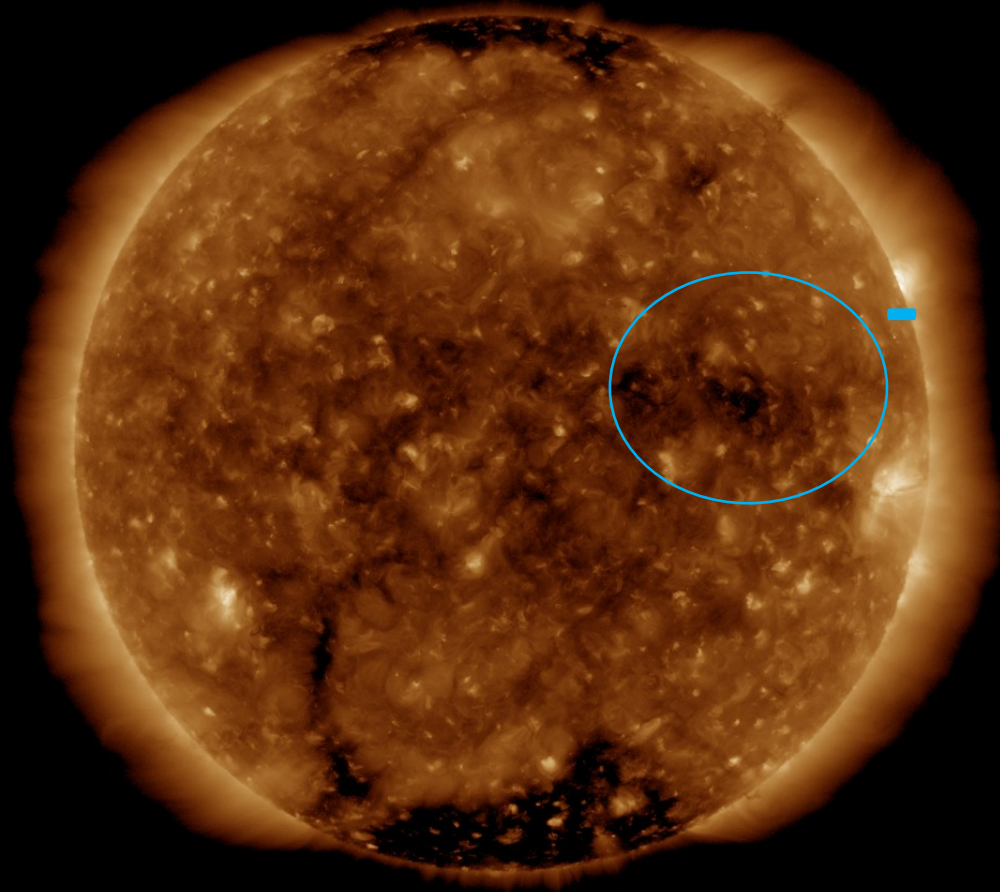
SDO/AIA 19.3 nm 2020-05-01



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

Solar active region & Coronal hole

SDO/AIA 19.3 nm 2020-05-03



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

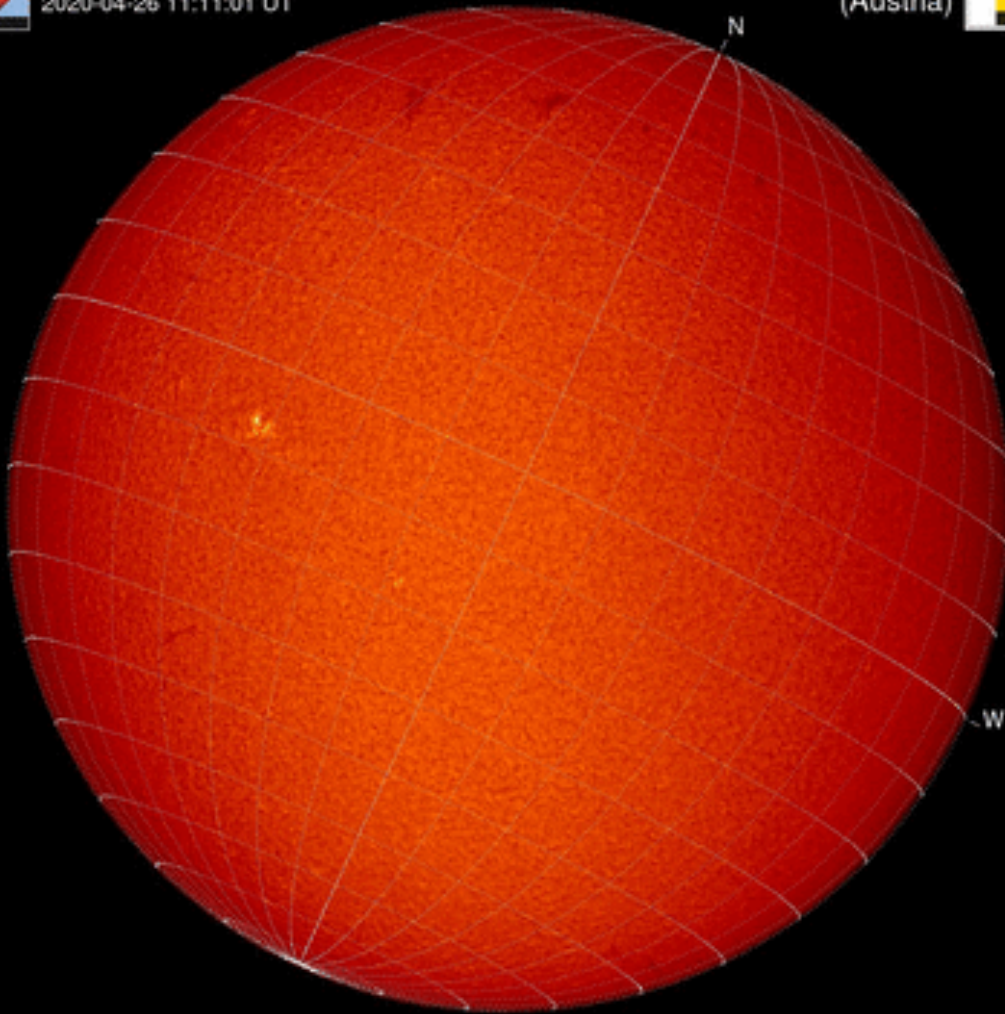
Filament & Filament eruption

H-alpha 2020-04-26



Kanzelhöhe Observatory
2020-04-26 11:11:01 UT

University of Graz
(Austria)

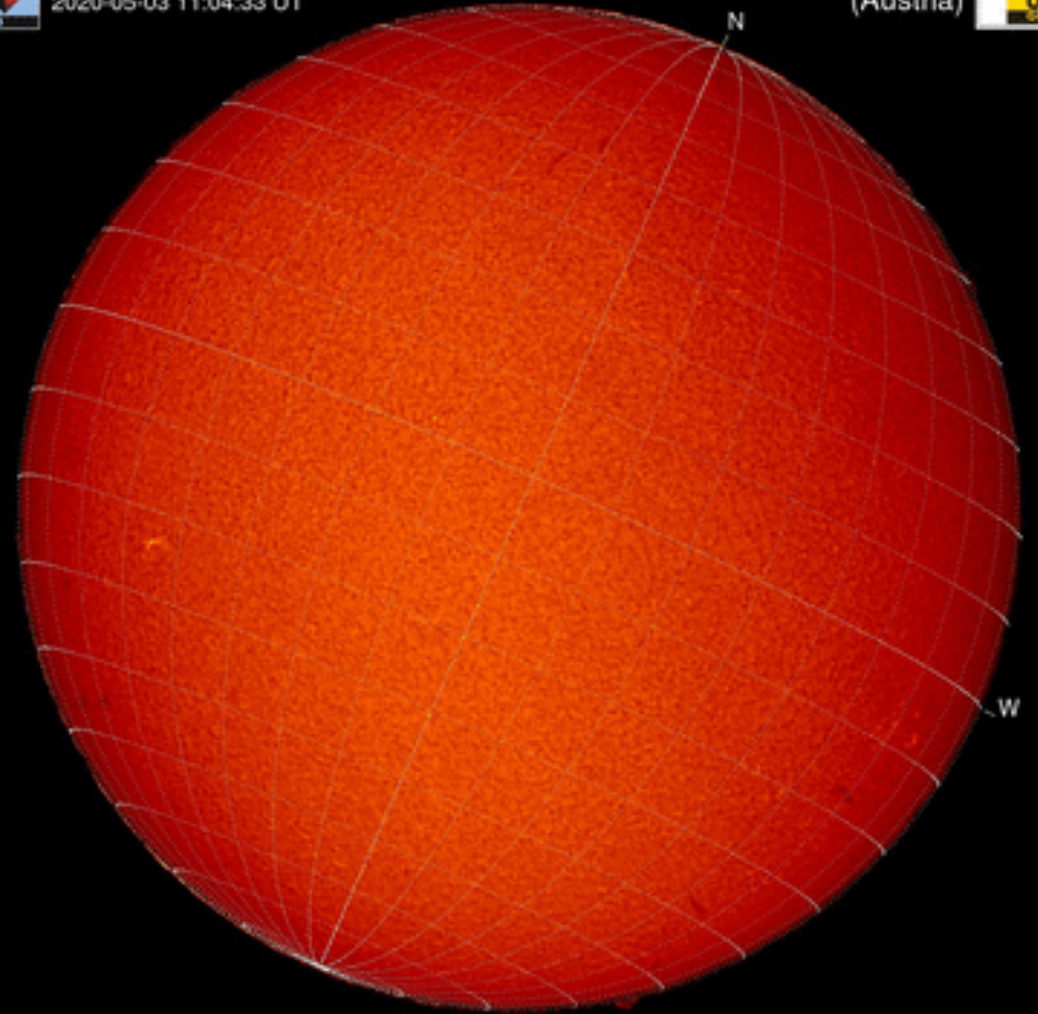


H-alpha 2020-05-03



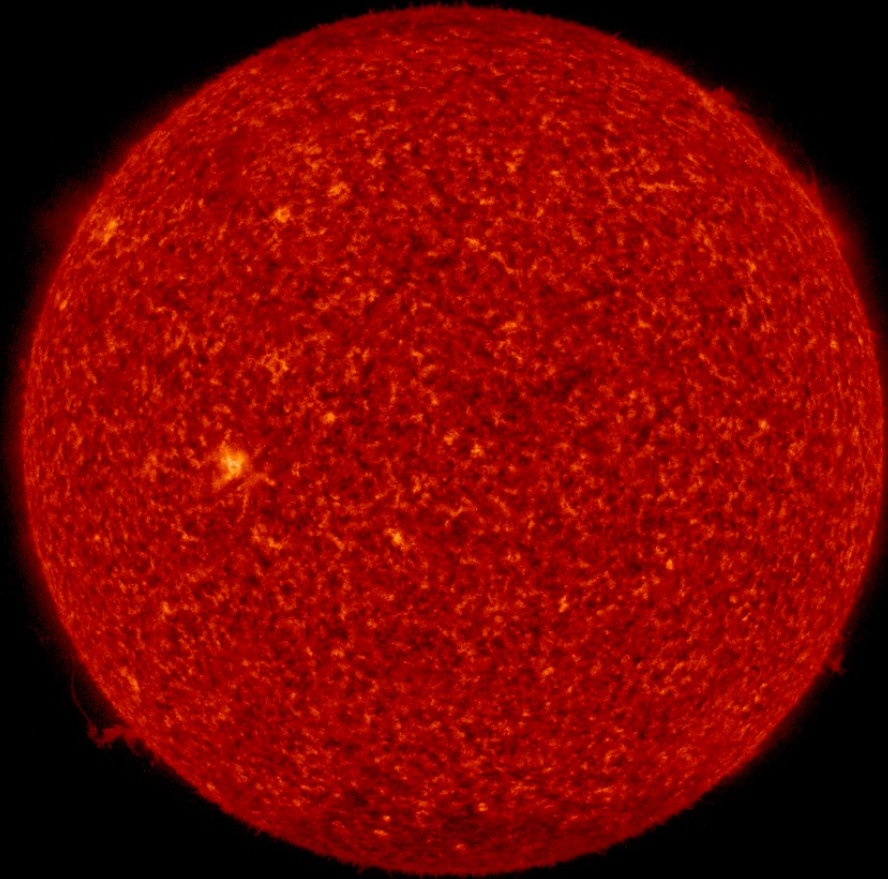
Kanzelhöhe Observatory
2020-05-03 11:04:33 UT

University of Graz
(Austria)

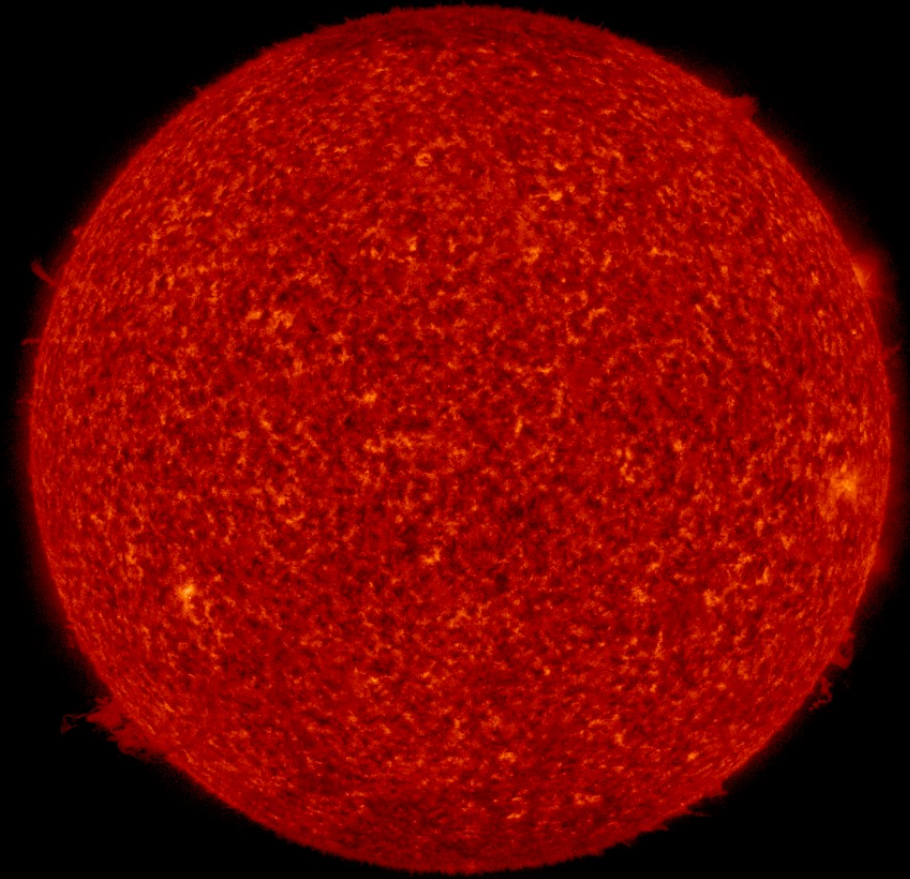


Solar active region & Filament

SDO/AIA 30.4 nm 2020-04-26



SDO/AIA 30.4 nm 2020-05-03

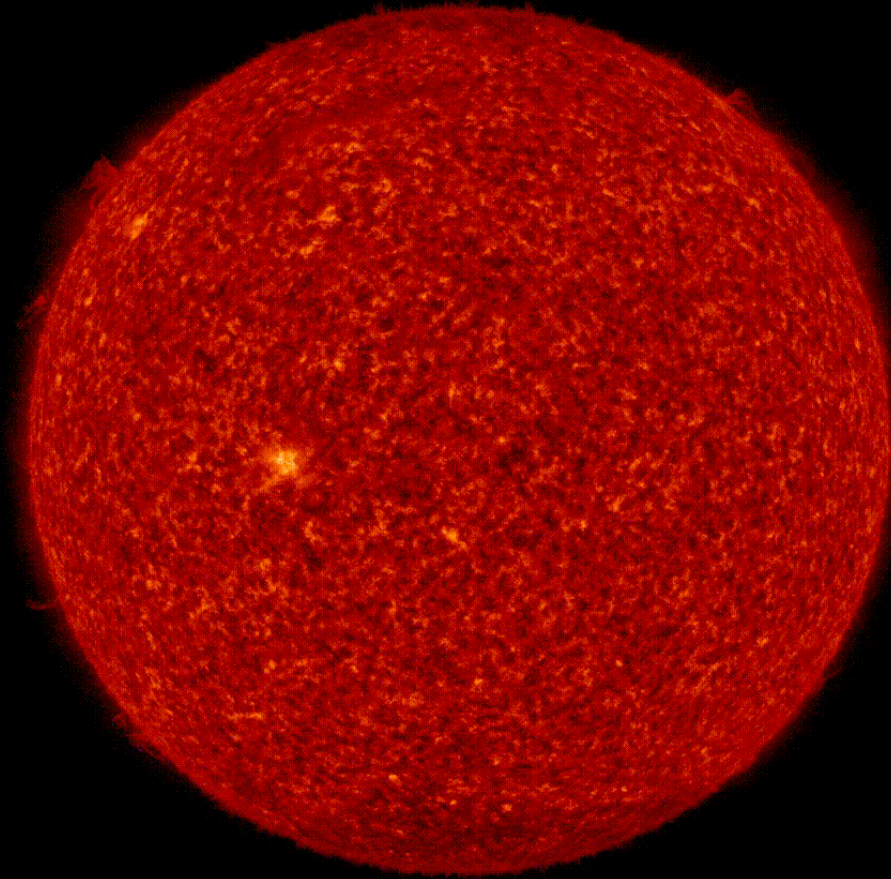


SDO/AIA 304 2020-04-26 12:13:30 UT

SDO/AIA 304 2020-05-03 12:12:30 UT

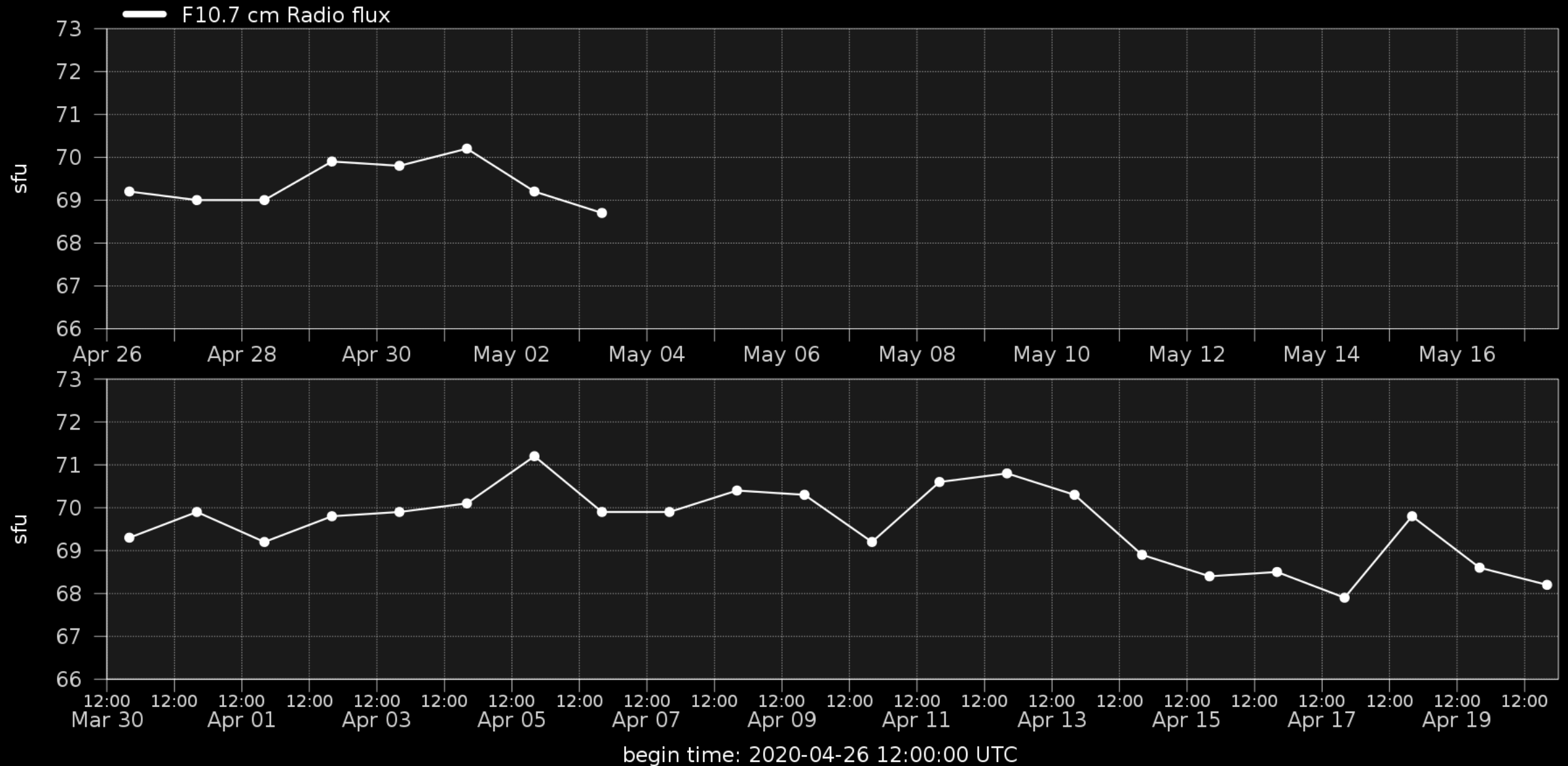
Solar active region & Filament

SDO/AIA 30.4 nm 2020-04-27

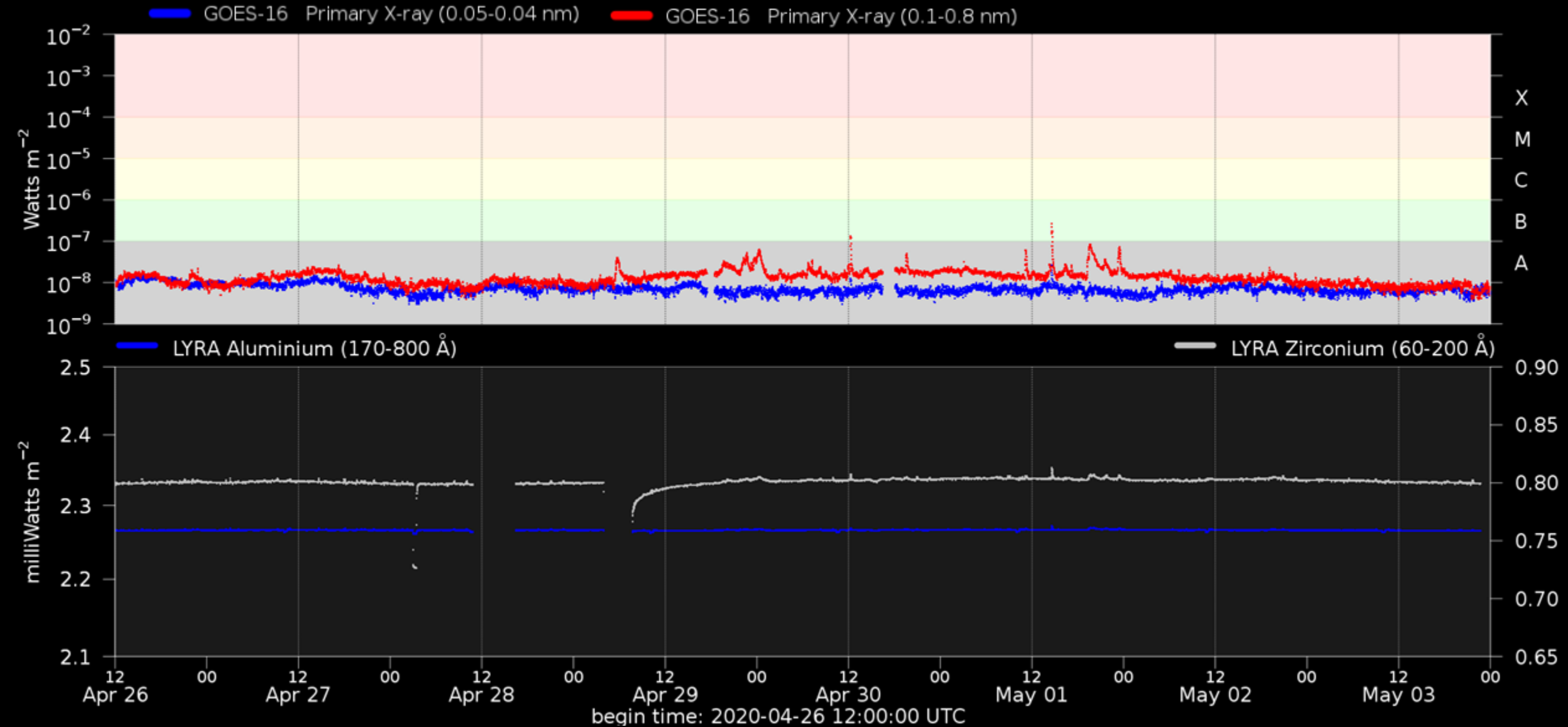


SDO/AIA 304 2020-04-27 00:13:18 UT

Solar F10.7cm radio flux



Solar X-Ray and UV flux

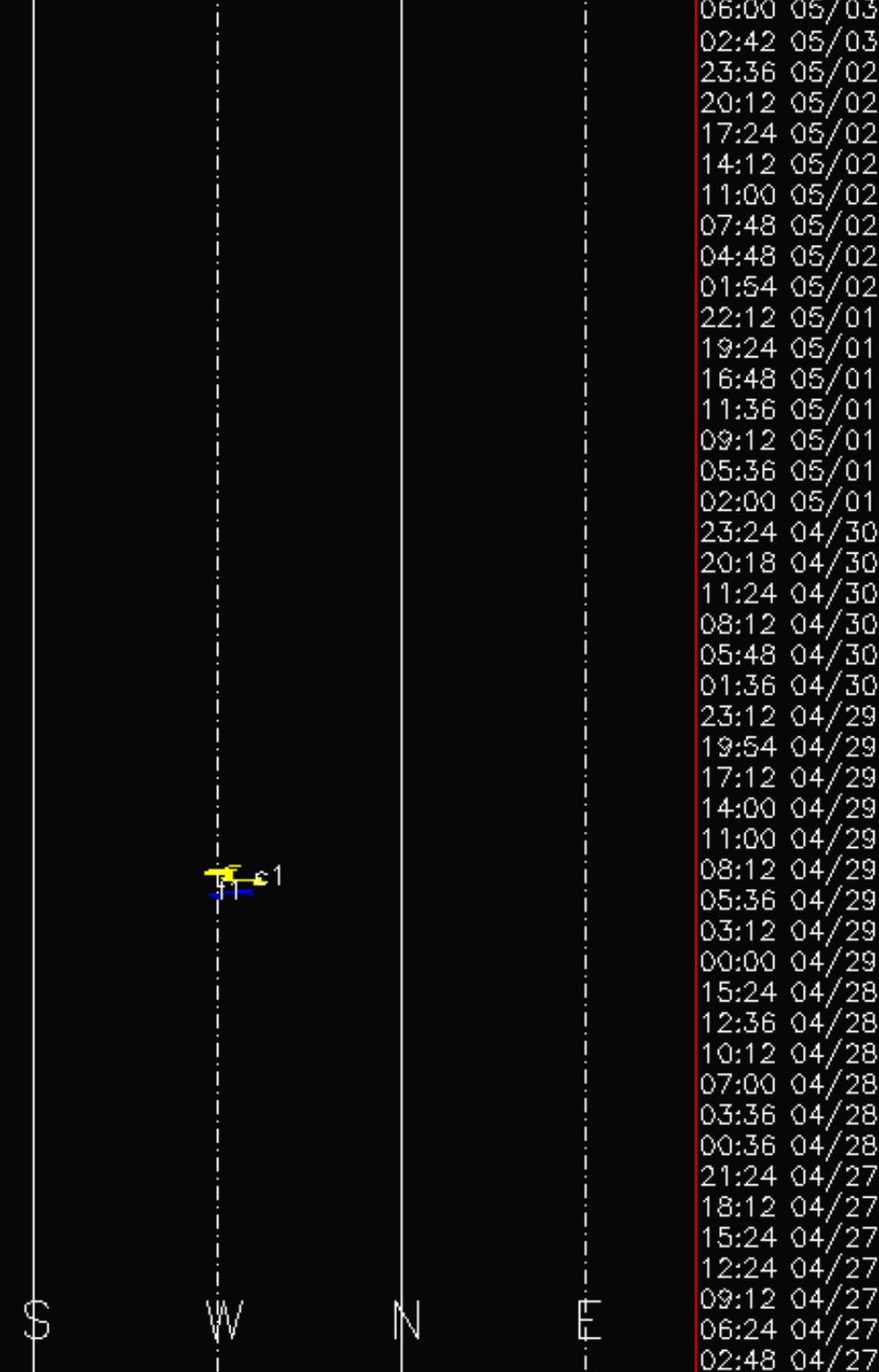
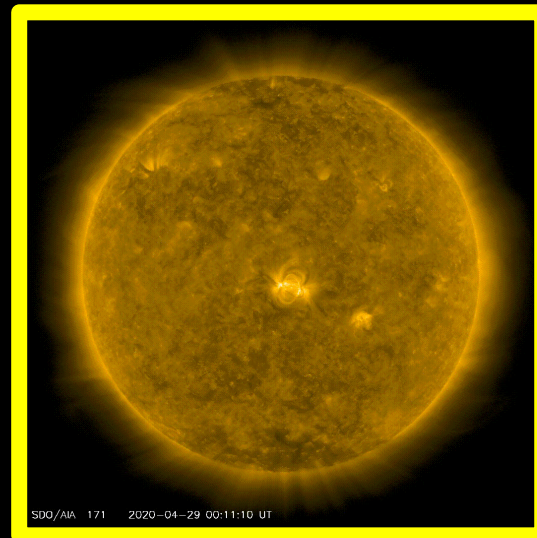
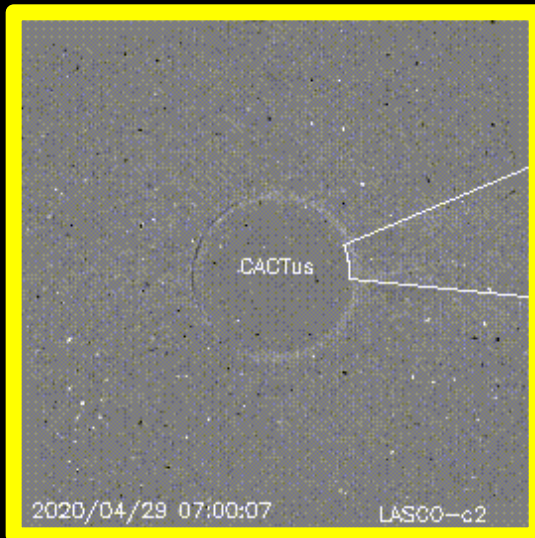


Coronal Mass Ejection

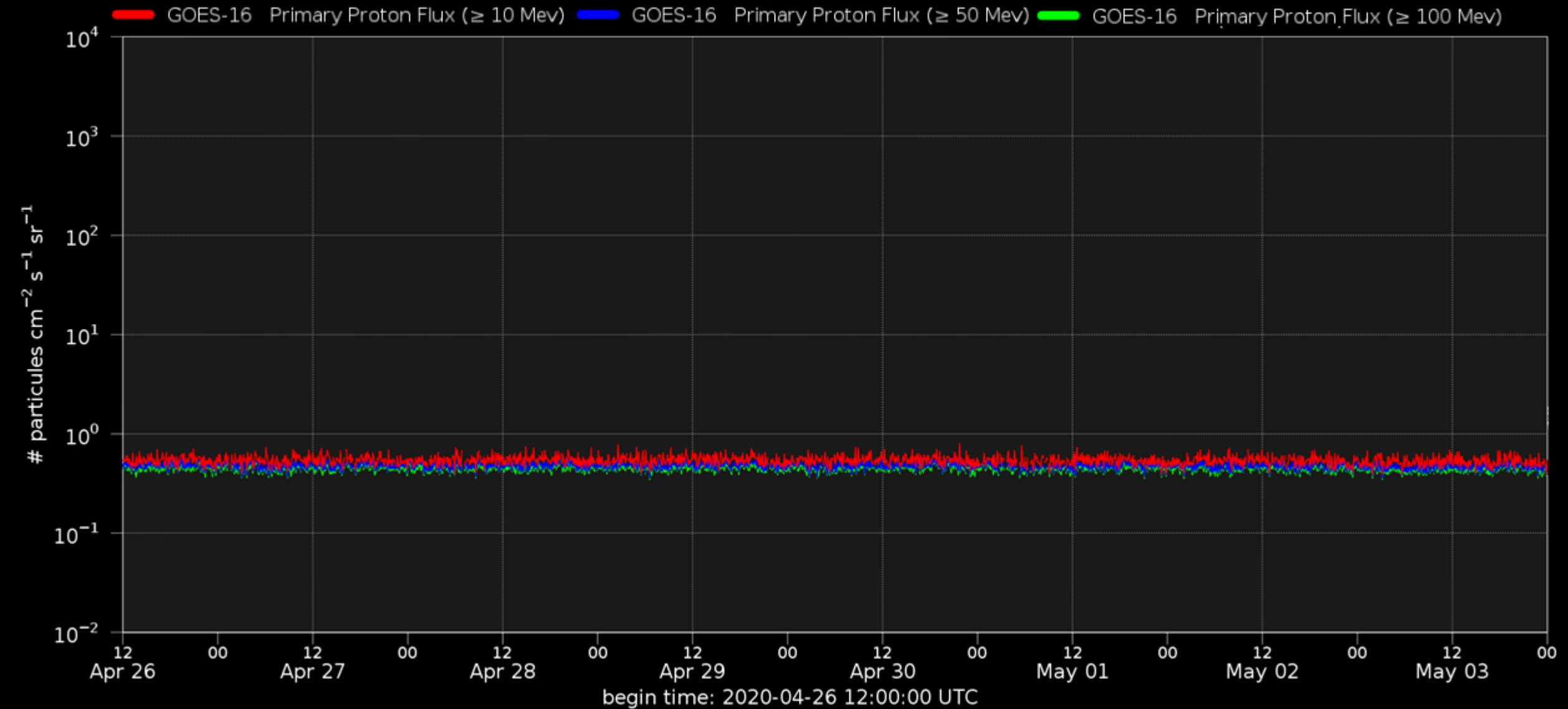
27th Apr
STEREO-COR2



29th Apr
LASCO-C2



Solar proton flux



Solar Wind and Geomagnetic Activity



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Solar wind parameters



GOES Electron flux



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



Geomagnetic activity (K-indexes)



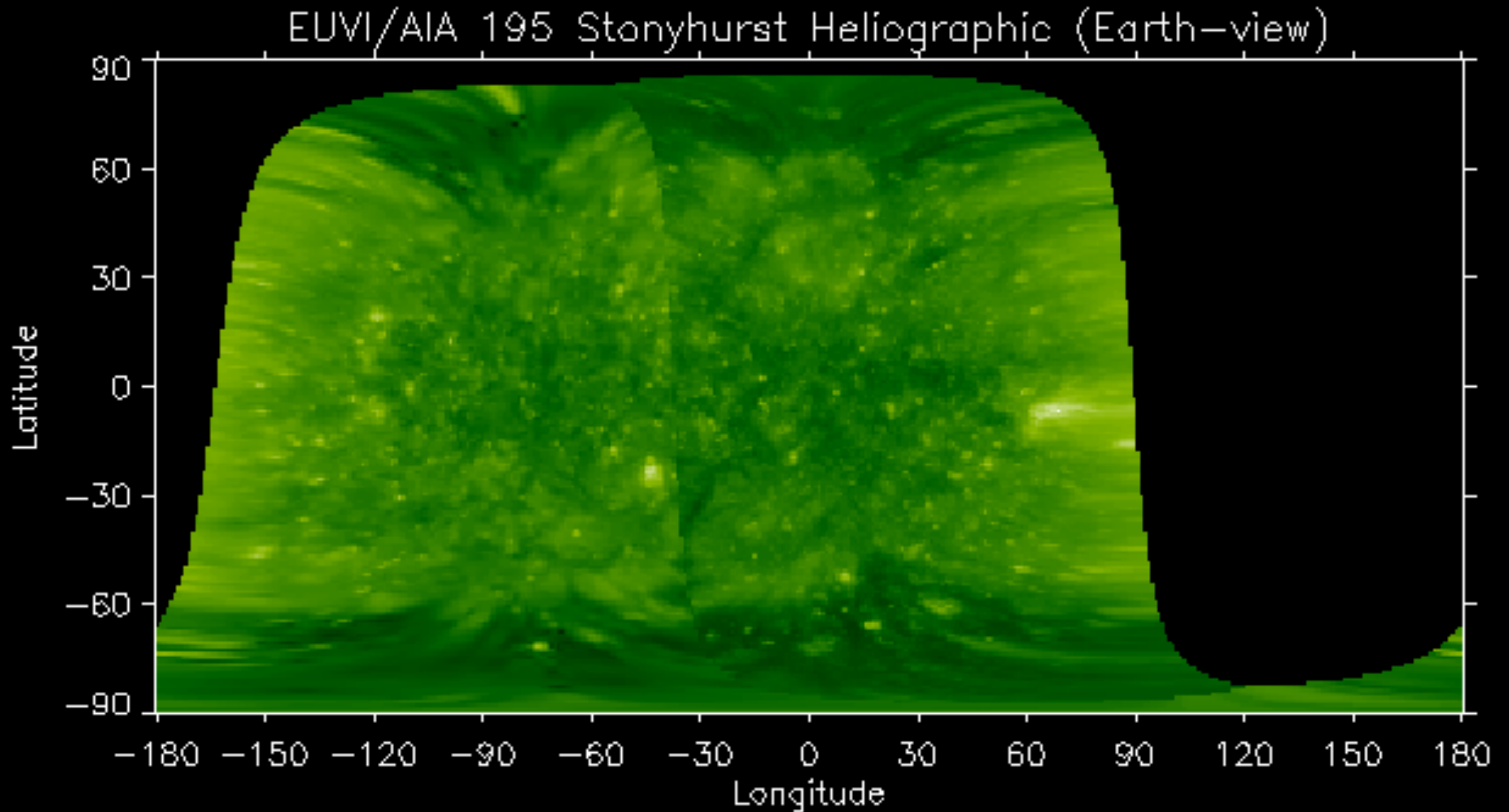
Outlook



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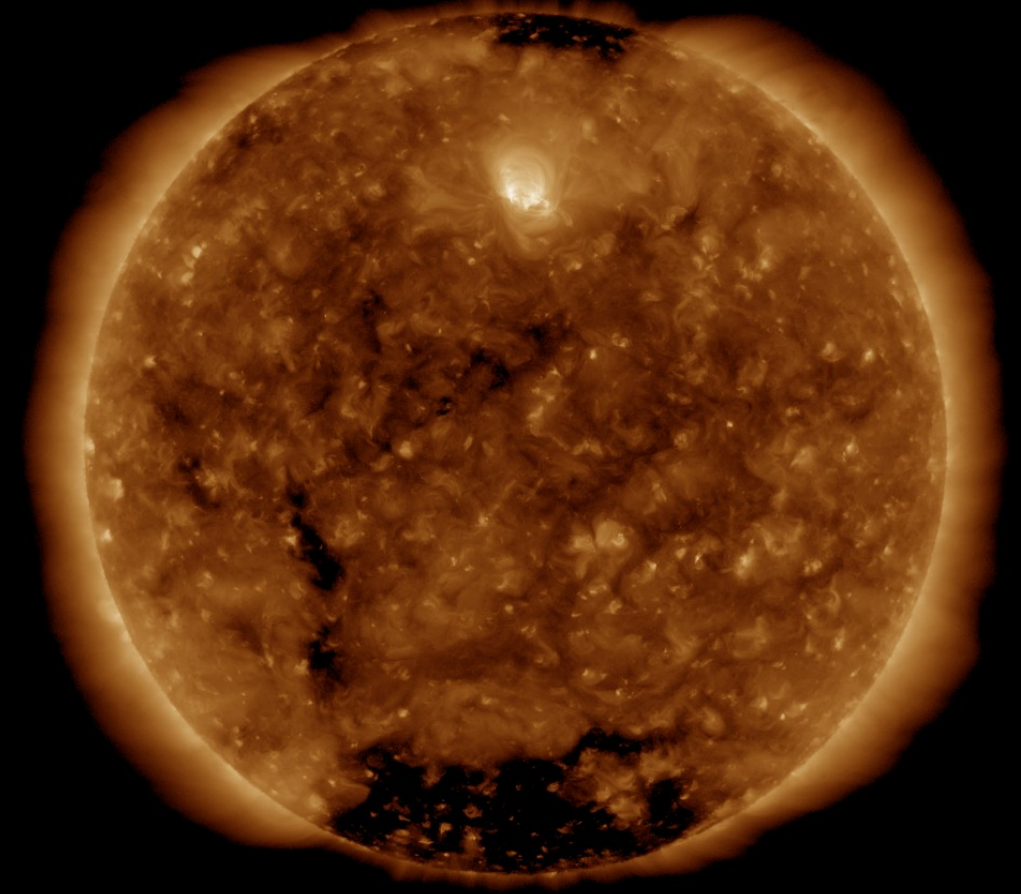
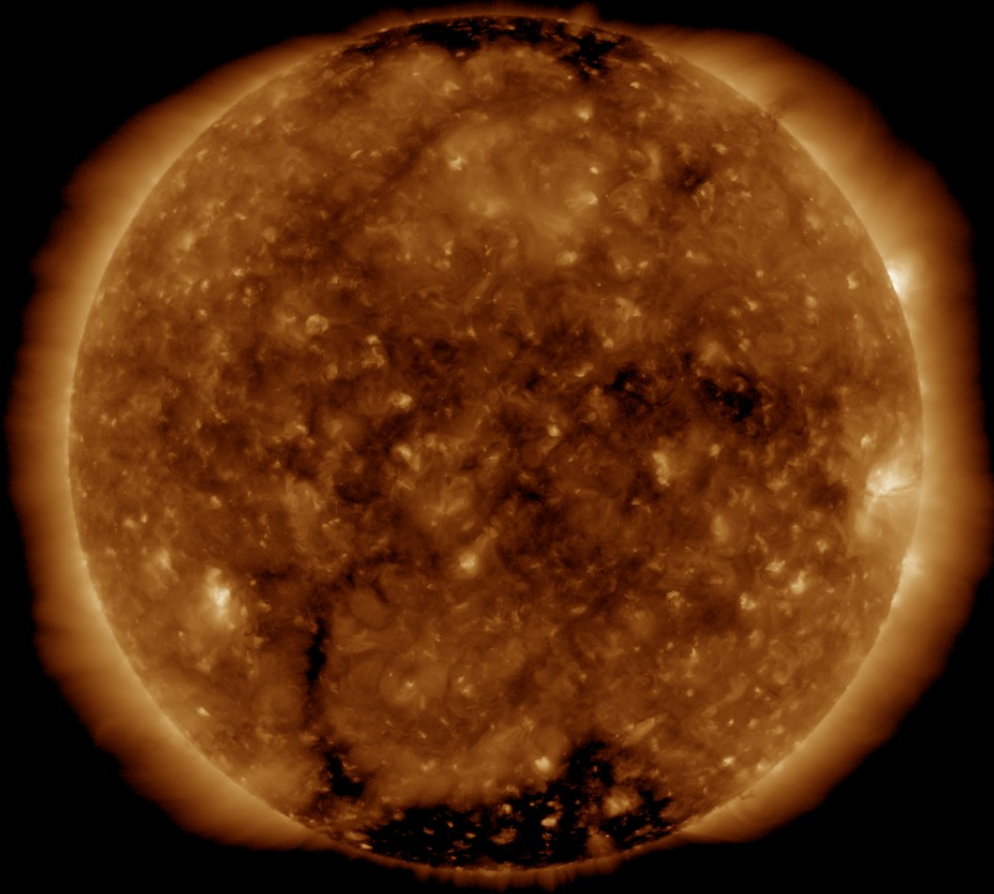
Outlook: Solar activity



Outlook: Solar wind

SDO/AIA 19.3 nm 2020-05-03

SDO/AIA 19.3 nm 2020-04-05



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

SDO/AIA 193 2020-04-05 06:40:41 UT

Outlook: Solar wind



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See you at our next briefing!

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