

SIDC Space Weather Briefing

01 September 2019 - 08 September 2019

Luciano Rodriguez
& the SIDC forecaster team



Royal Observatory
of Belgium

www.sidc.be

Summary Report

Solar activity from 2019-09-01 12:00 UT to 2019-09-08 12:00 UT

Active regions	AR 2748
Flaring	# B-class flare: 0 # C-class flare: 0 # M-class flare: 0 # X-class flare: 0
Filaments	None
CMEs	None
Proton Events	None

Solar wind and geomagnetic conditions from 2019-09-01 12:00 UT to 2019-09-08 12:00 UT

Coronal Holes	Two: one +, one -
ICME	None
SW Conditions	HSS up to ~750 km/s
K-indices	max K-index (Dourbes): 5.0 max Kp-index (NOAA): 5

All Quiet Alert: Off

Solar Activity

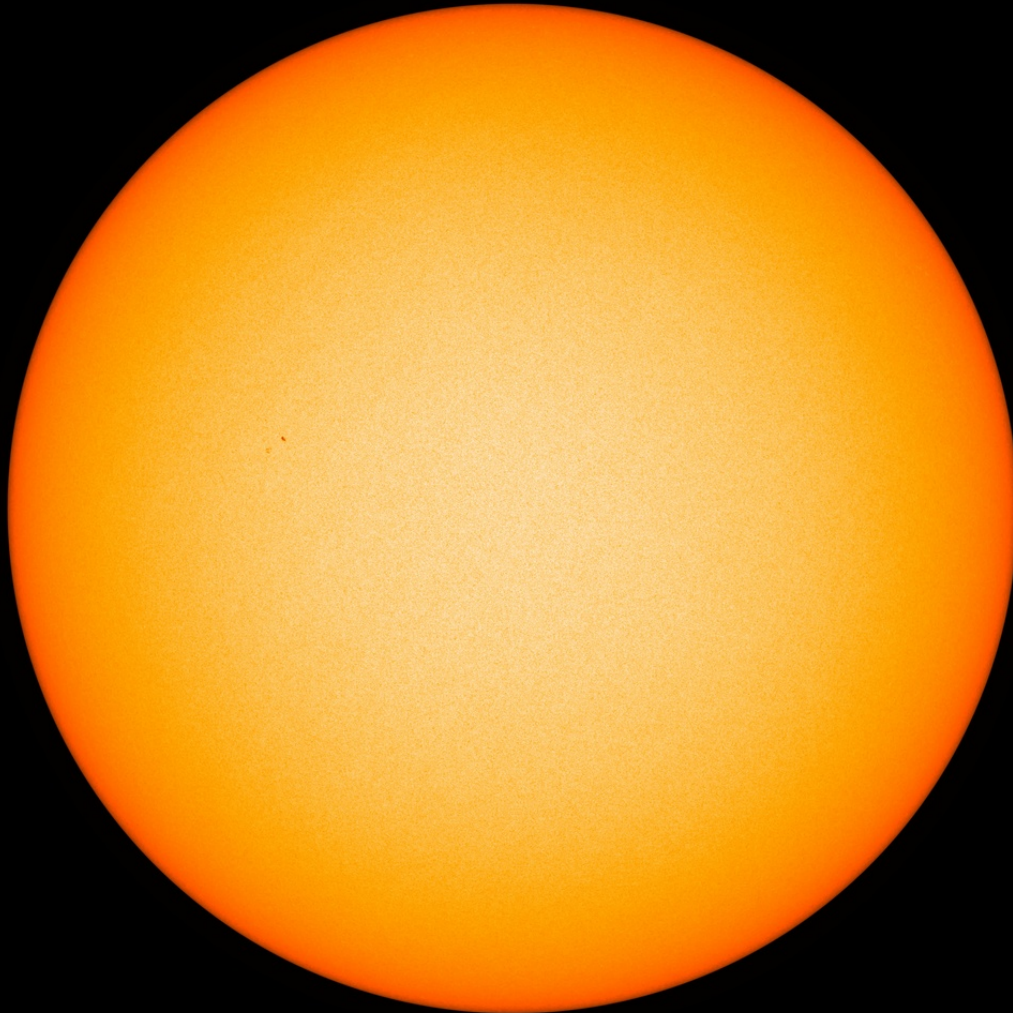


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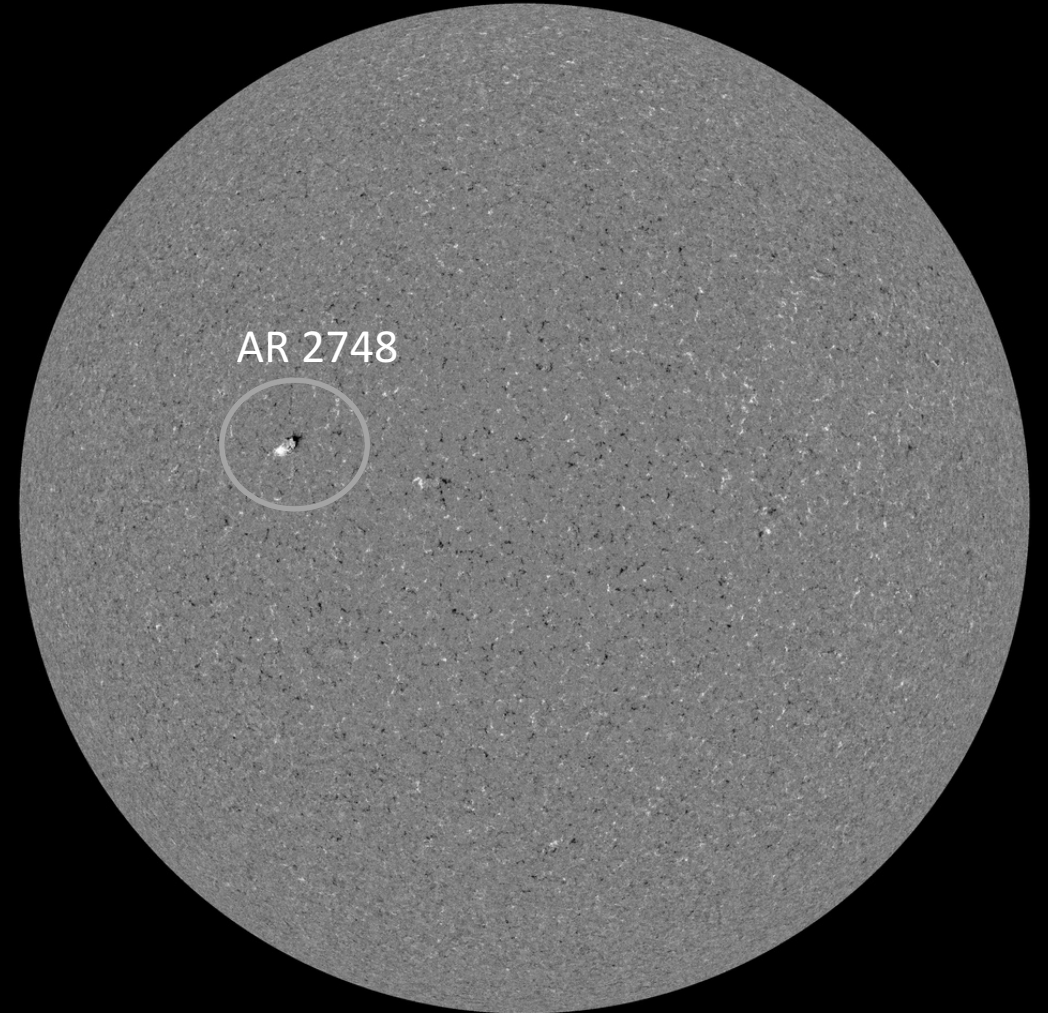
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Solar active region - start of the week

SDO/HMI White Light 2019-09-01

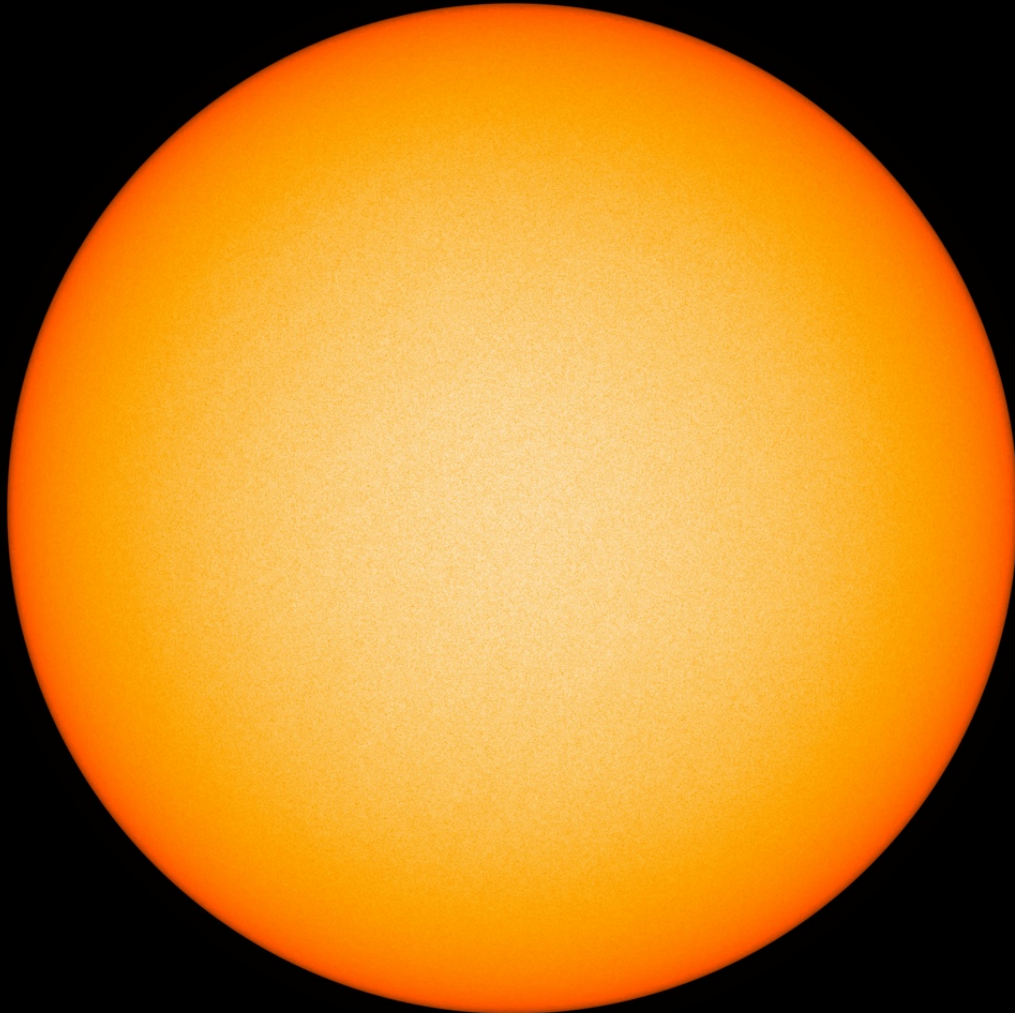


SDO/HMI Magnetogram 2019-09-01



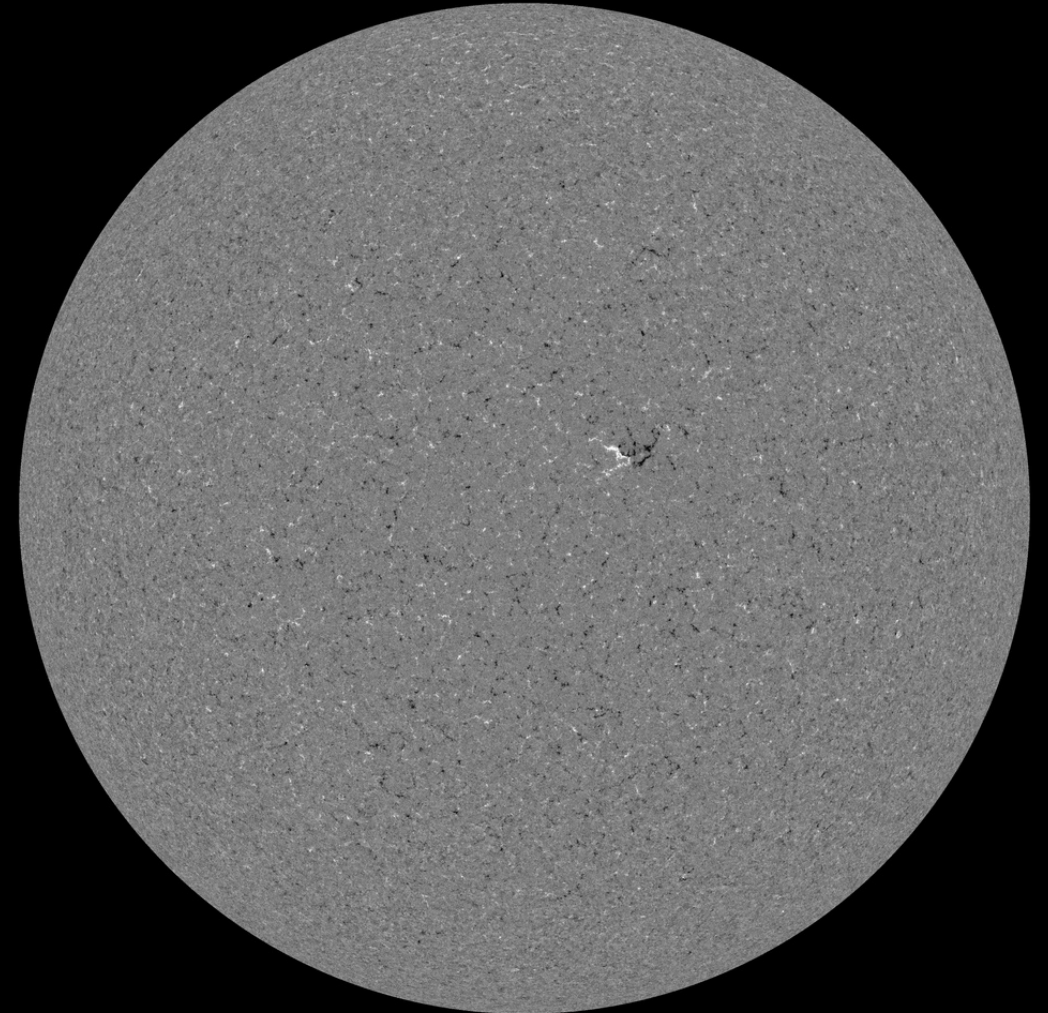
Solar active region - middle of the week

SDO/HMI White Light 2019-09-04



SDO/HMI Quick-Look Continuum: 20190904_120000

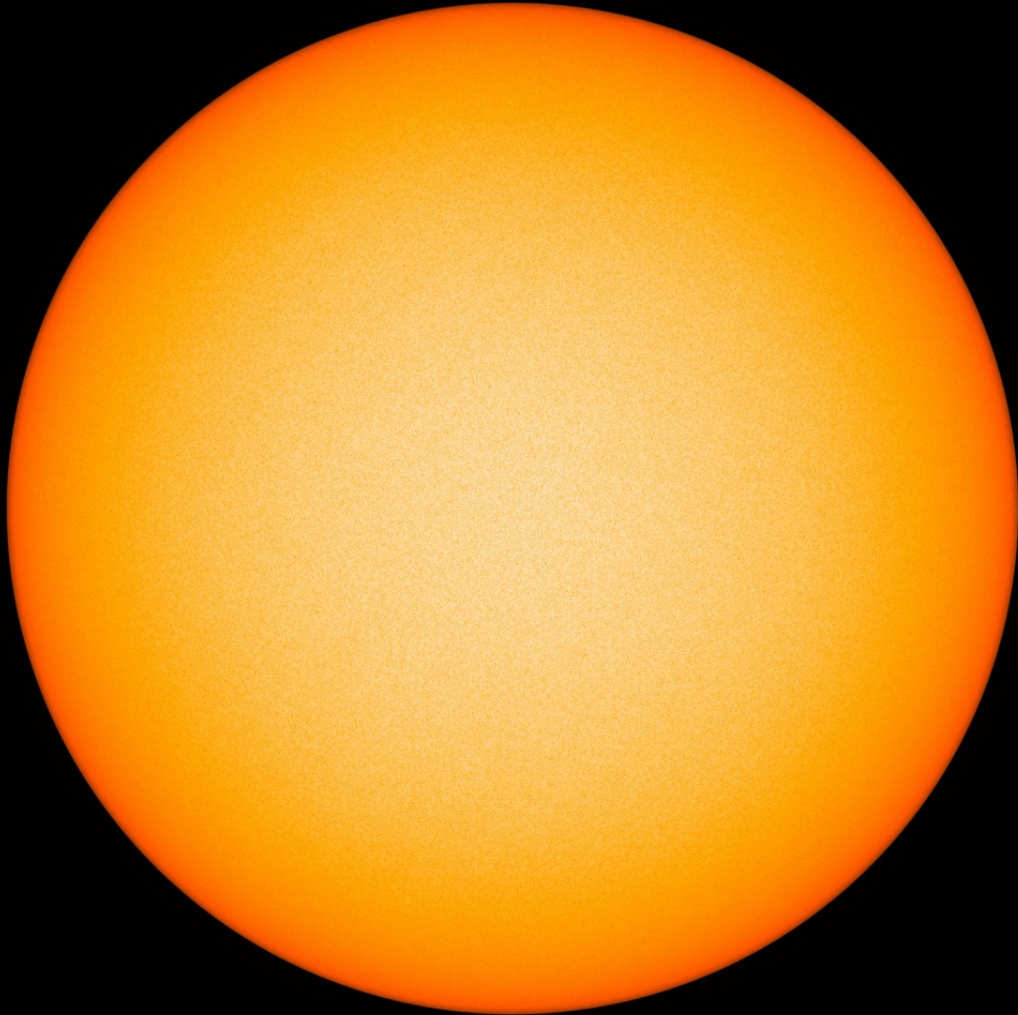
SDO/HMI Magnetogram 2019-09-04



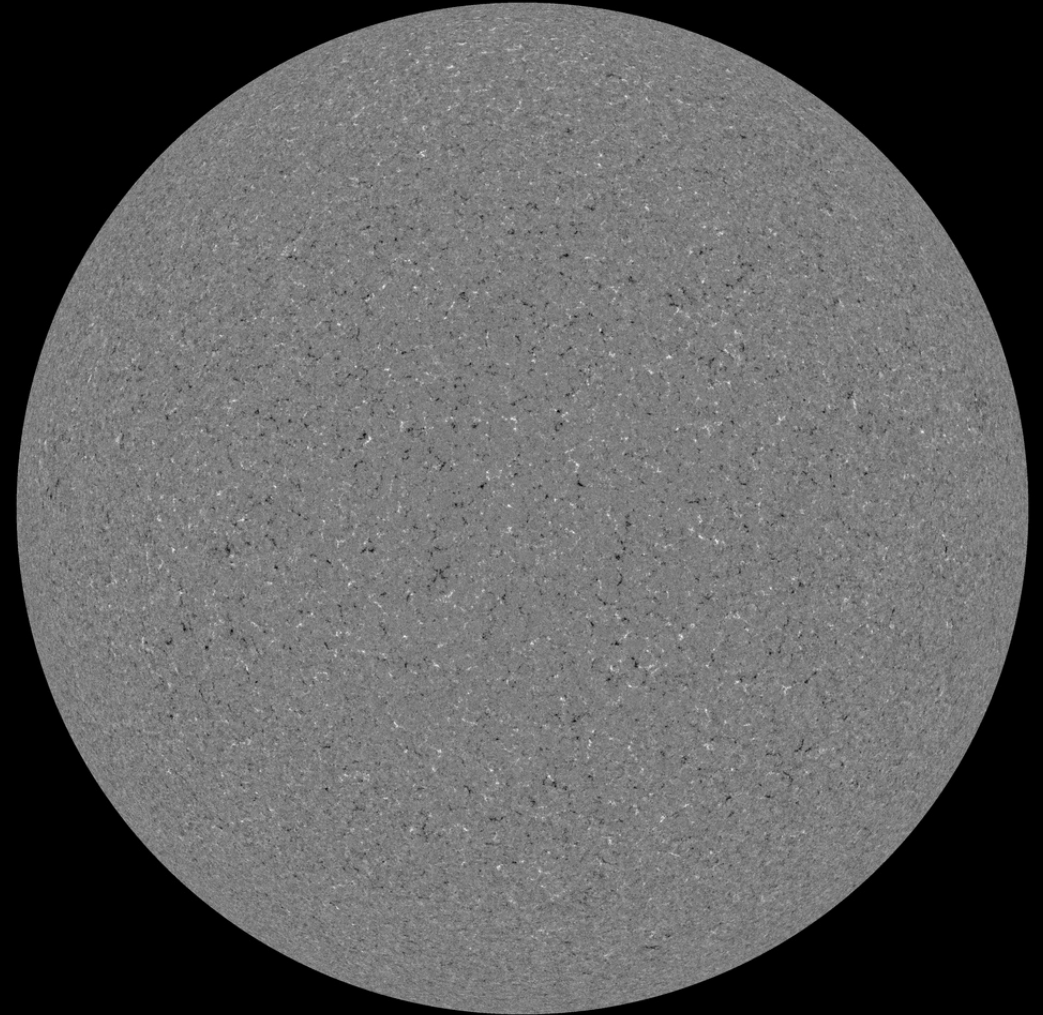
SDO/HMI Quick-Look Magnetogram: 20190904_114500

Solar active region - end of the week

SDO/HMI White Light 2019-09-08

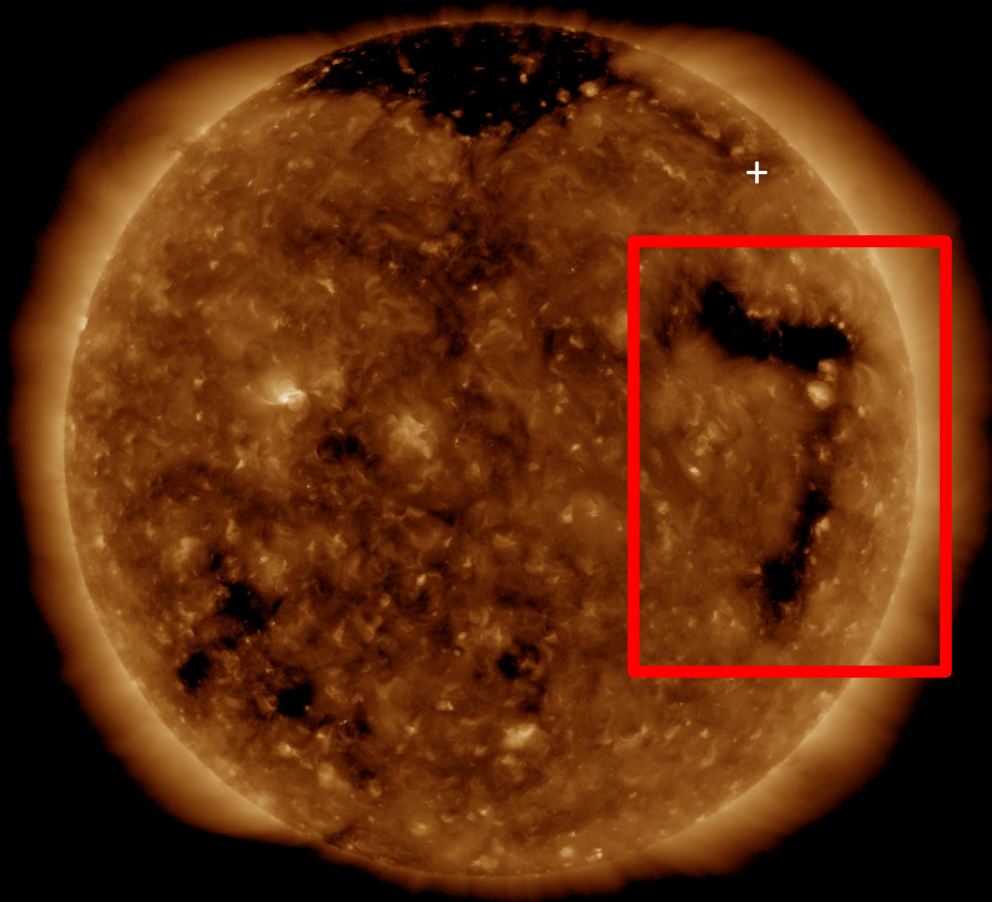


SDO/HMI Magnetogram 2019-09-08



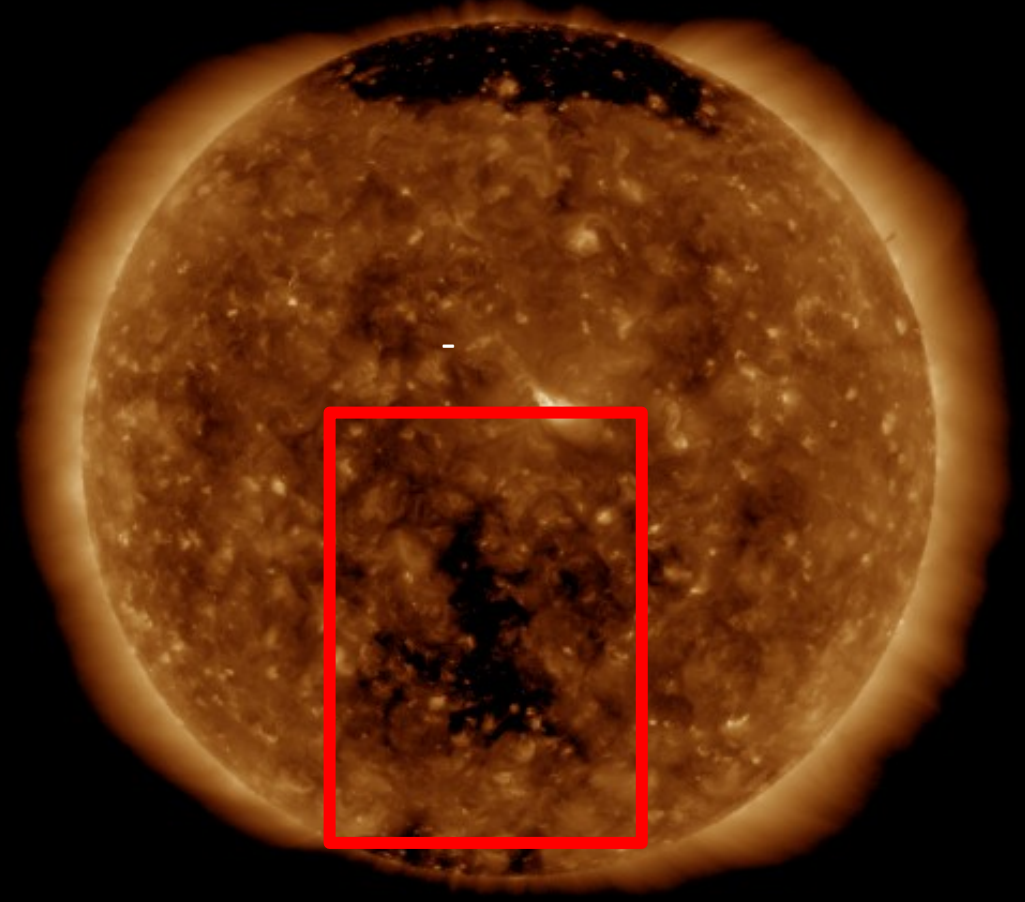
Solar active region & Coronal hole

SDO/AIA 19.3 nm 2019-09-01



SDO/AIA 193 2019-09-01 12:09:53 UT

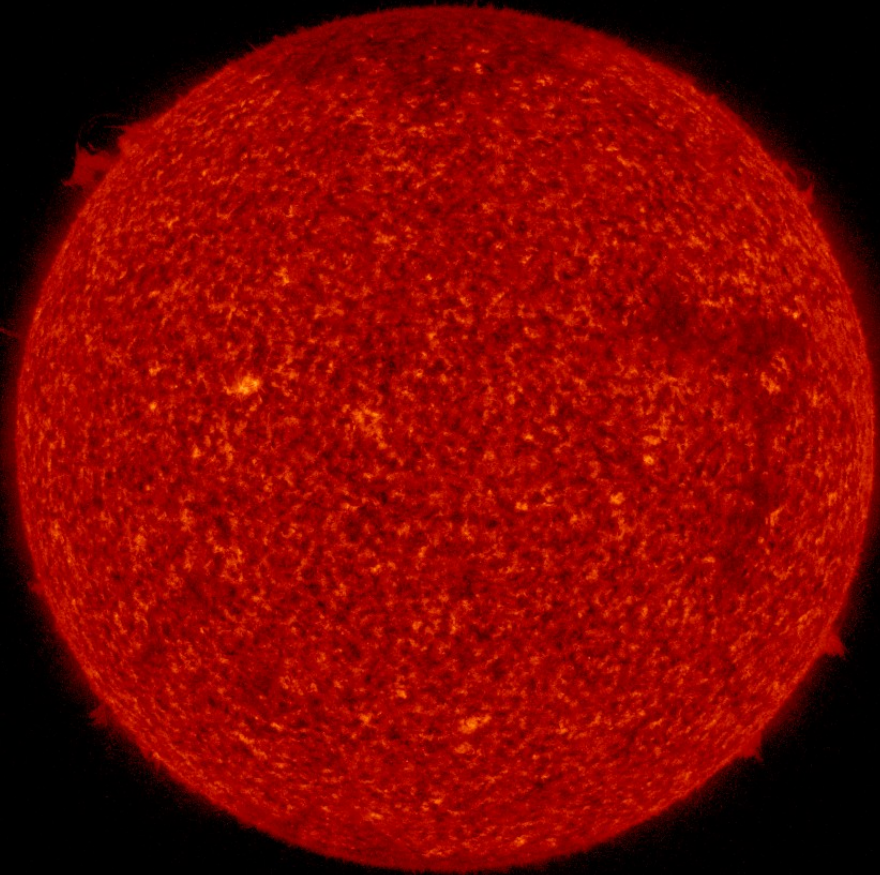
SDO/AIA 19.3 nm 2019-09-04



SDO/AIA 193 2019-09-04 00:10:17 UT

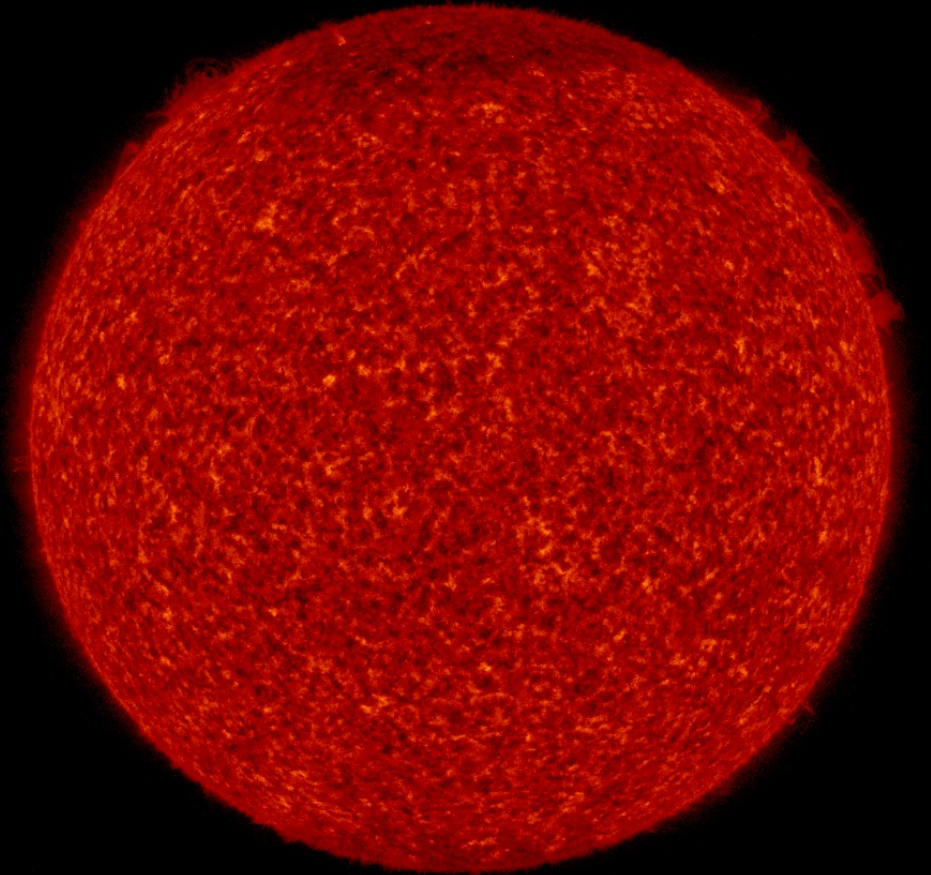
Solar active region & Filament

SDO/AIA 30.4 nm 2019-09-01



SDO/AIA 304 2019-09-01 12:14:06 UT

SDO/AIA 30.4 nm 2019-09-08



SDO/AIA 304 2019-09-08 12:13:42 UT

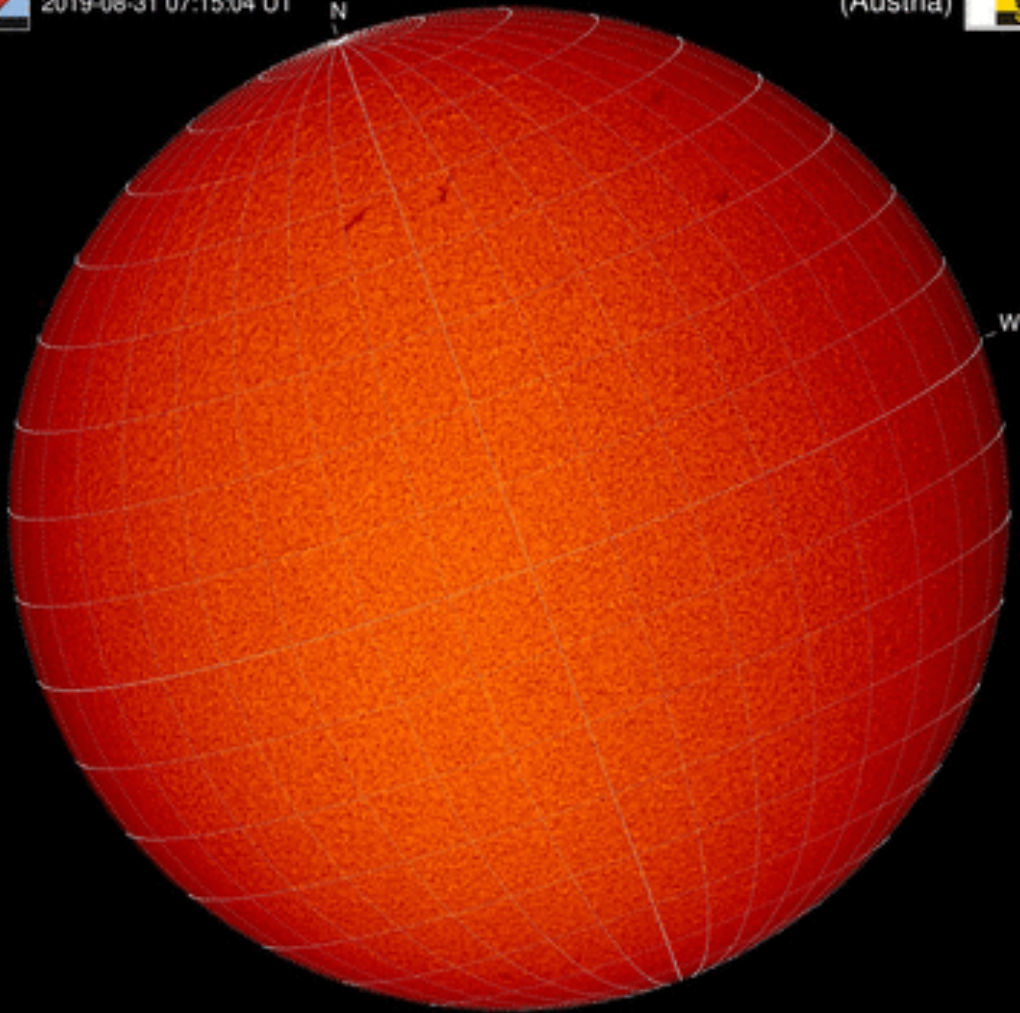
Filament & Filament eruption

H-alpha 2019-09-01



Kanzelhöhe Observatory
2019-08-31 07:15:04 UT

University of Graz
(Austria)

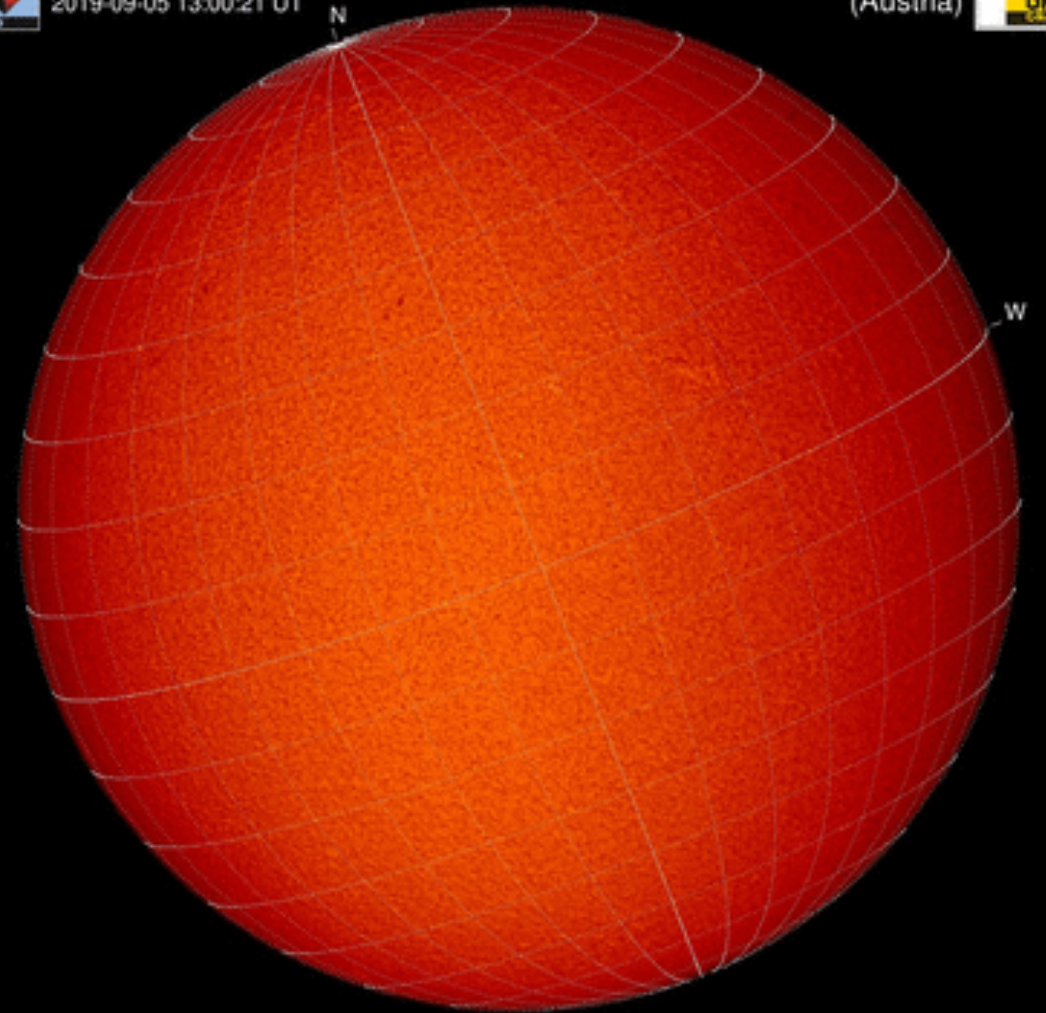


H-alpha 2019-09-08

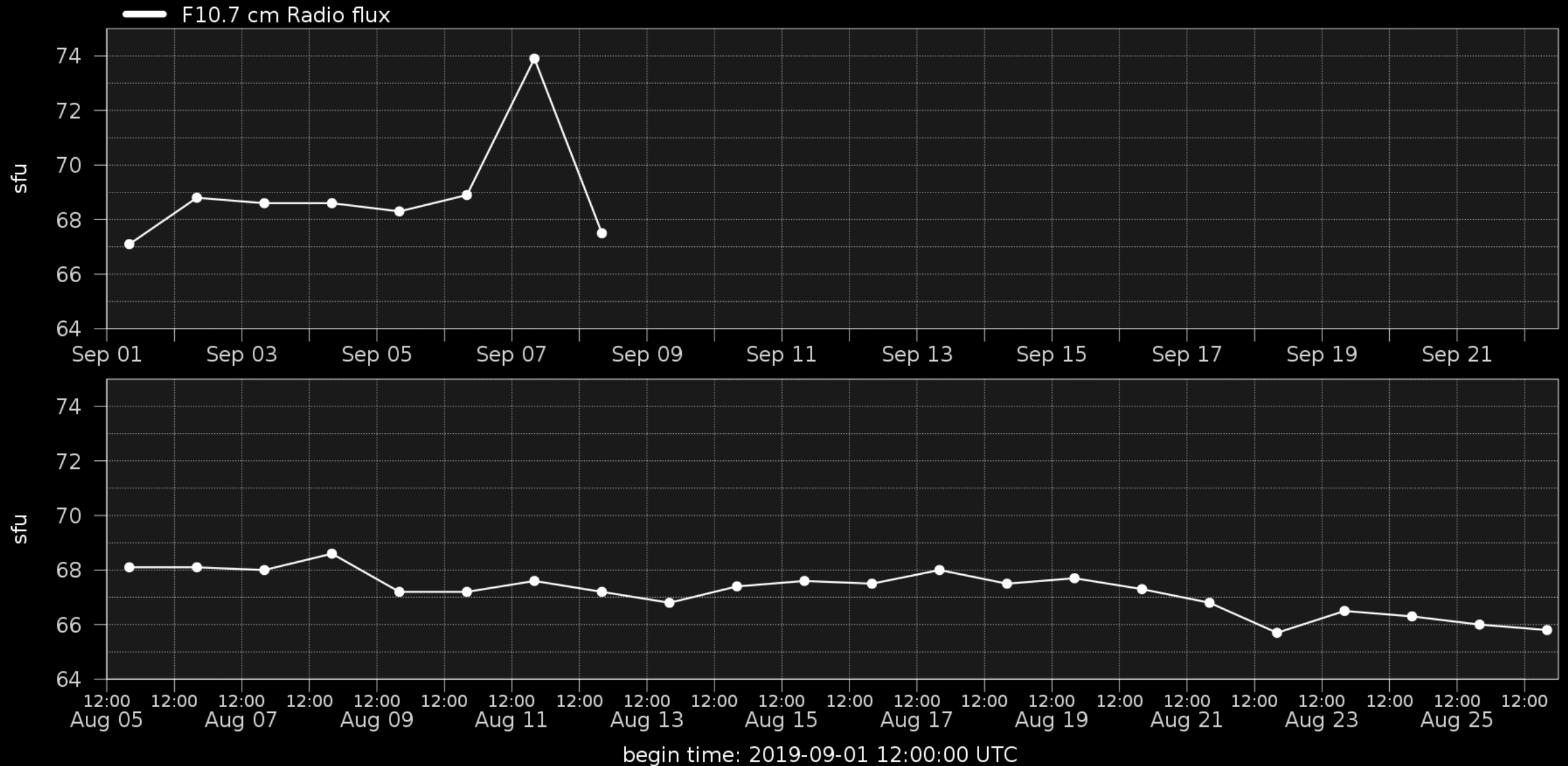


Kanzelhöhe Observatory
2019-09-05 13:00:21 UT

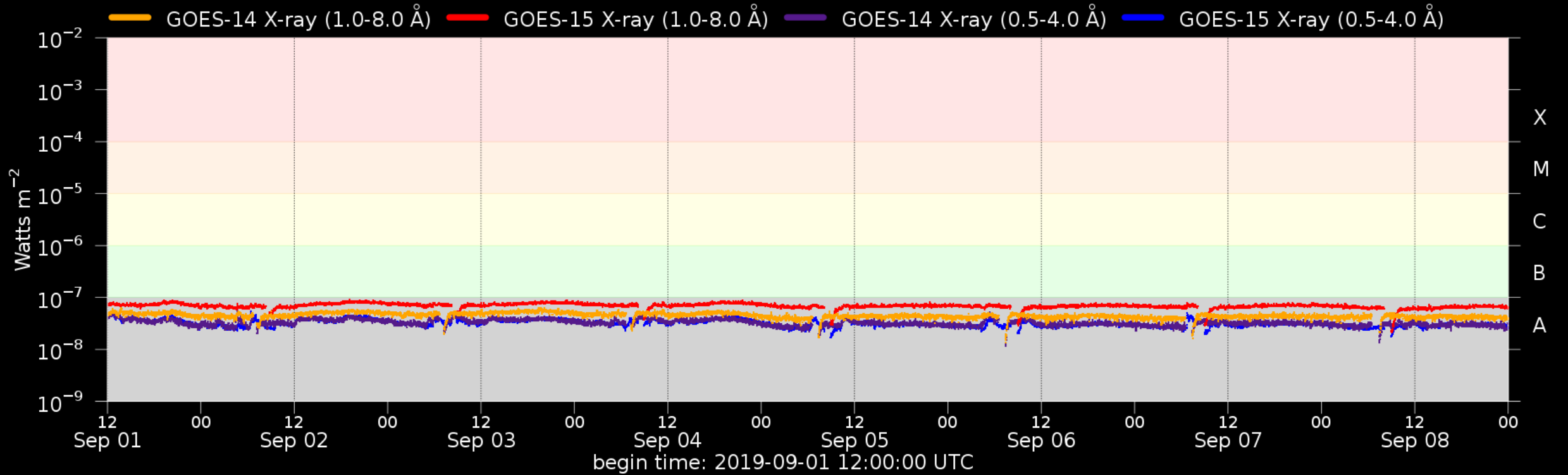
University of Graz
(Austria)



Solar F10.7cm radio flux



Flaring activity

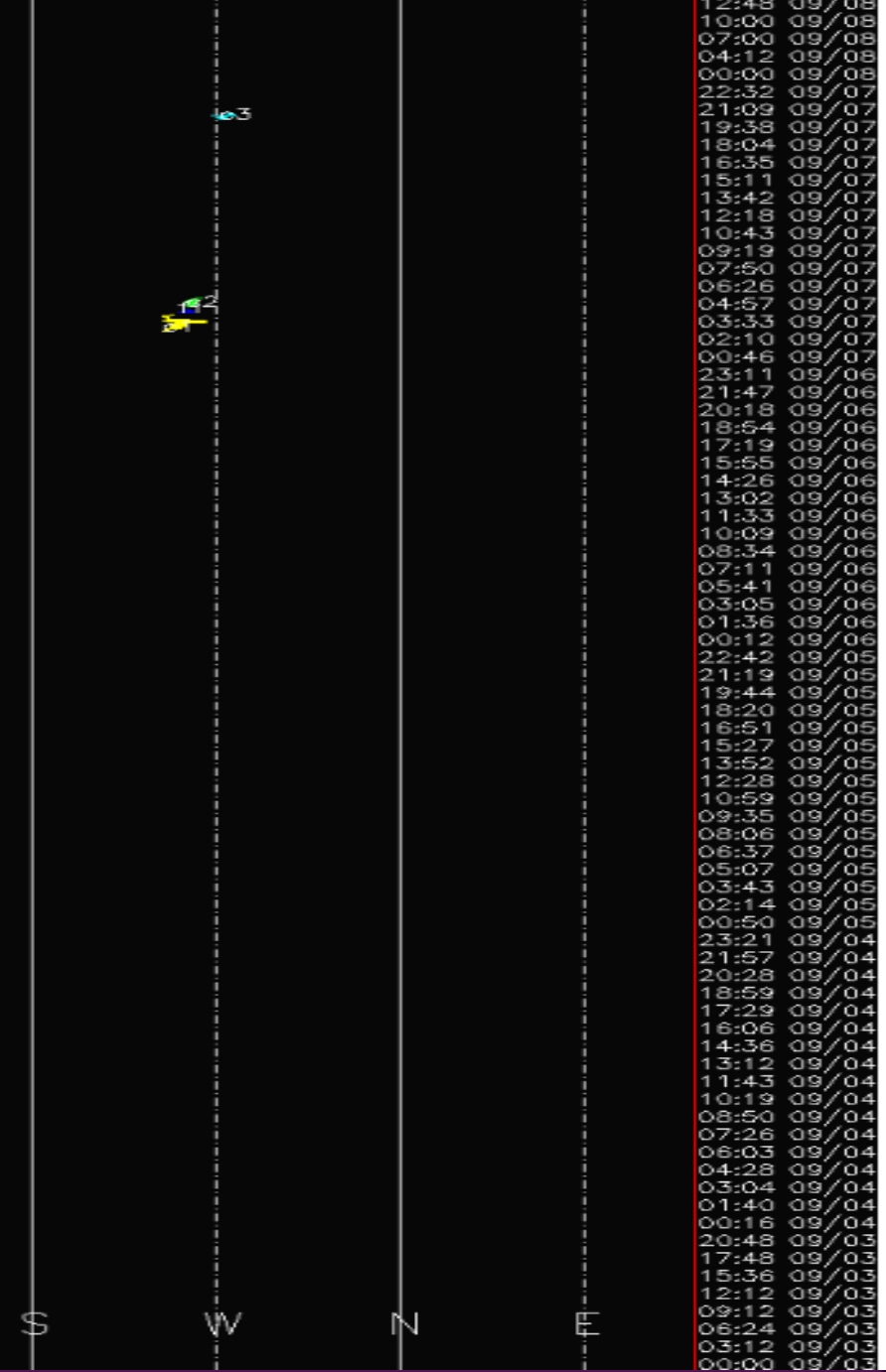


Probabilities (%) and occurrences (#) of B/C/M/X-flares issued at 12:30 and over the next 24h:

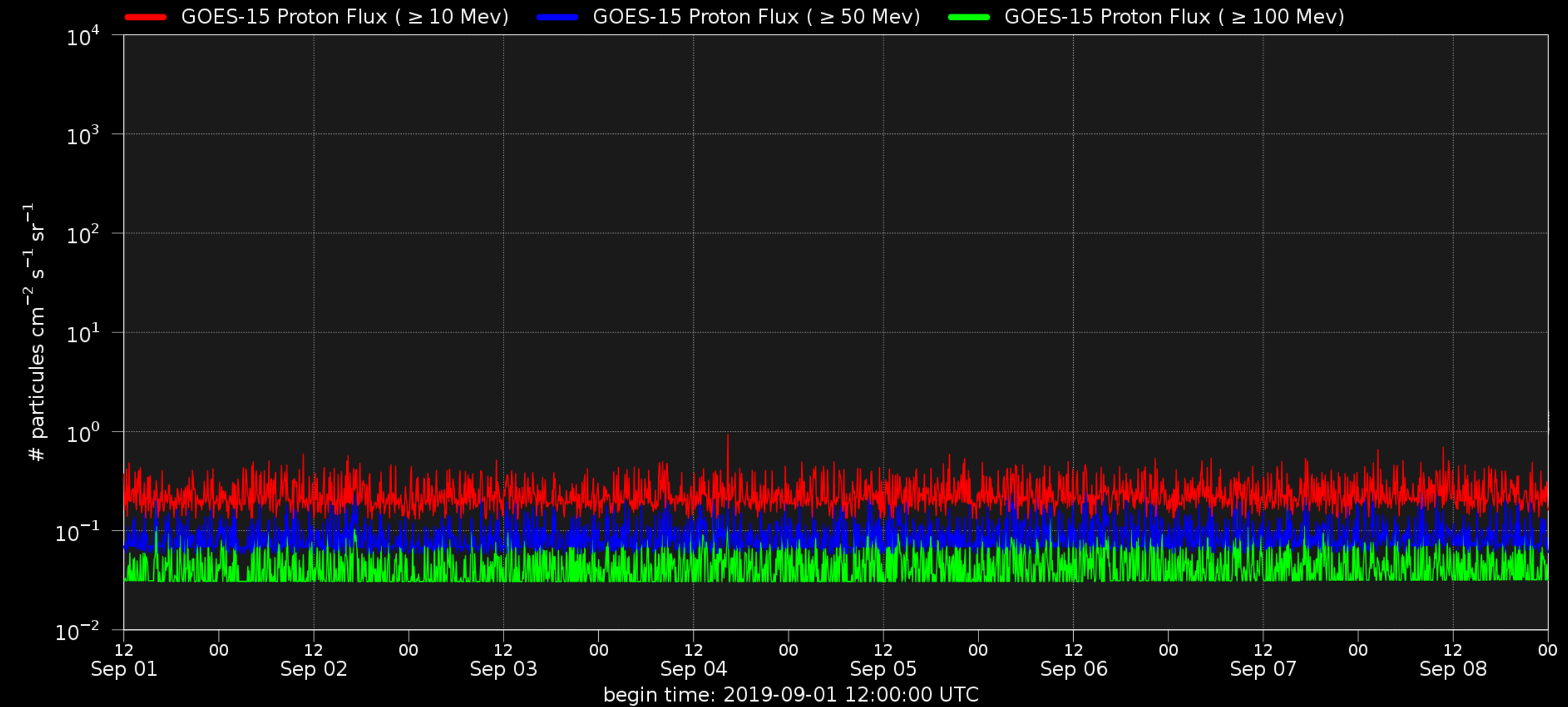
Issue date	2019-09-01	2019-09-02	2019-09-03	2019-09-04	2019-09-05	2019-09-06	2019-09-07	2019-09-08
Probability	--- 05 00 00	--- 05 01 01	--- 05 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01	--- 01 01 01
Observed	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00	00 00 00 00

Coronal Mass Ejection

None



Solar proton flux



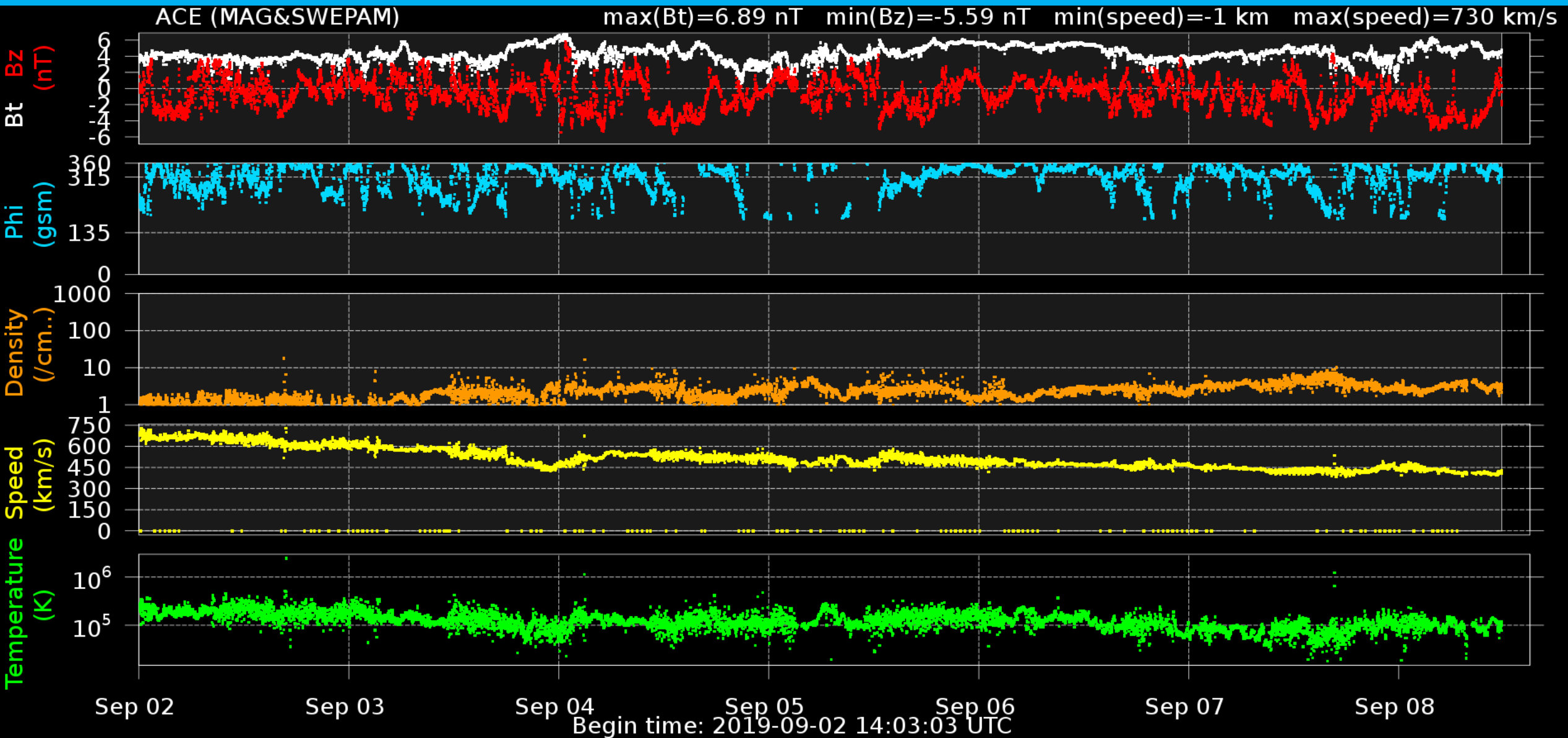
Solar Wind and Geomagnetic Activity



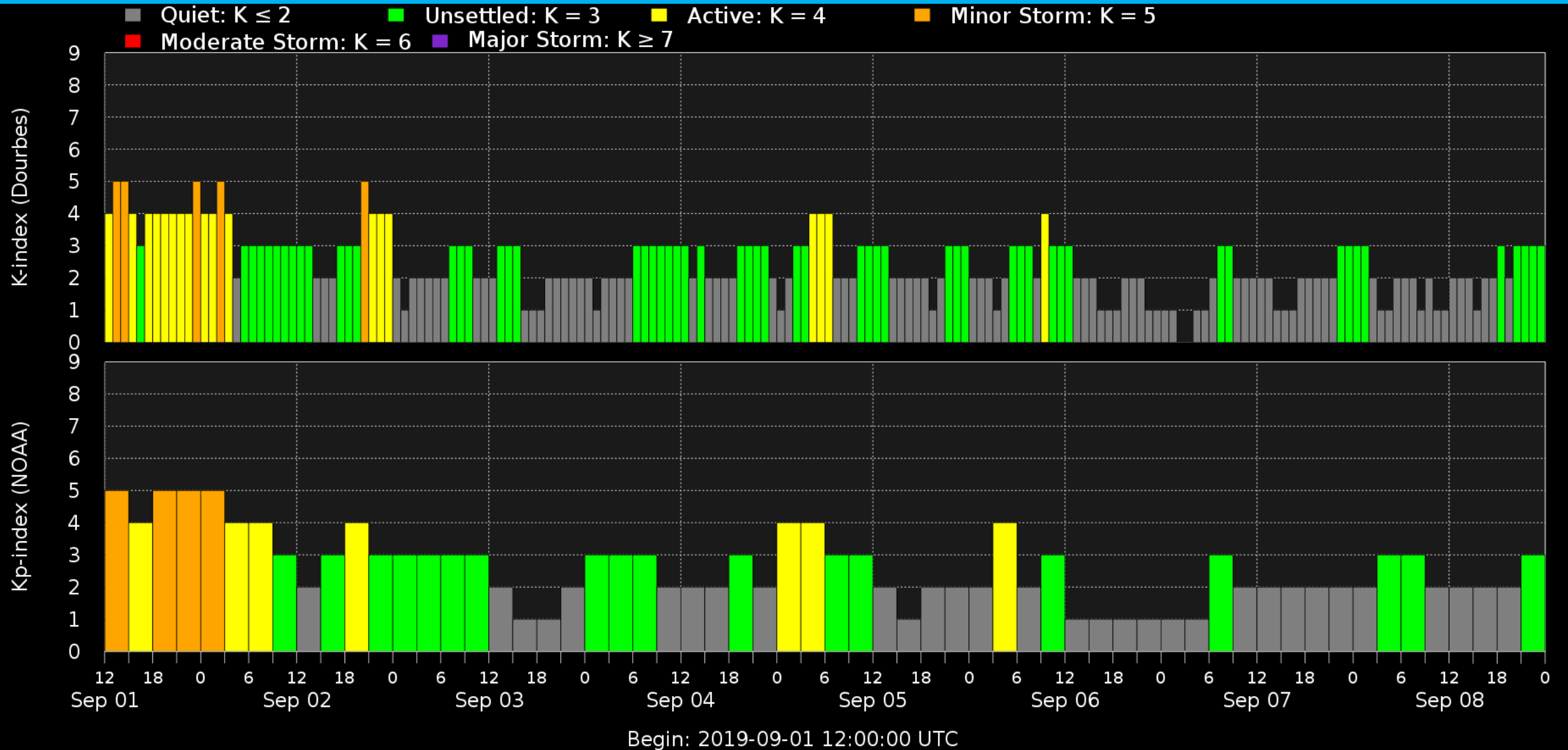
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Solar wind parameters (ACE data)



Geomagnetic activity (K-indexes)



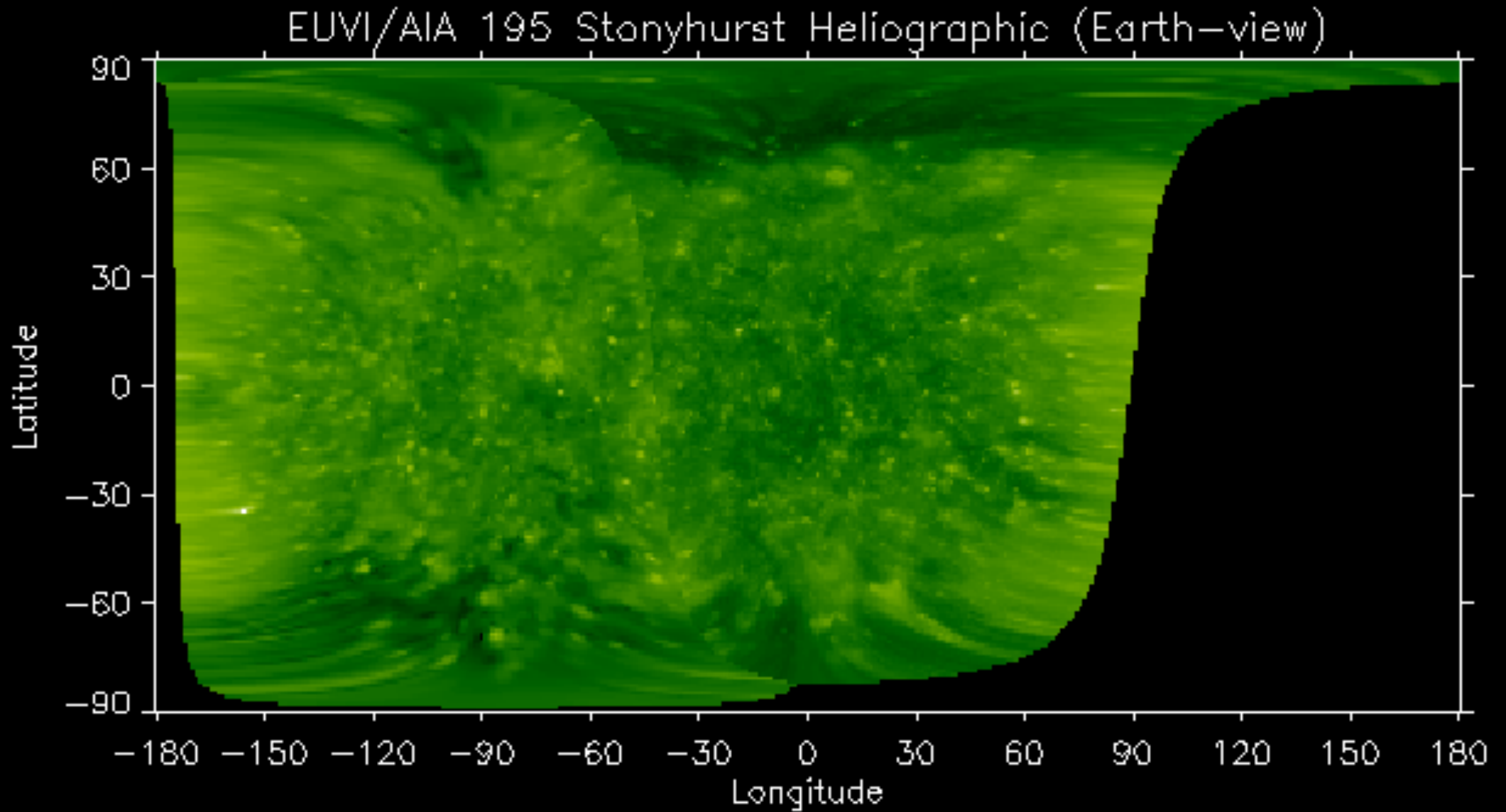
Outlook



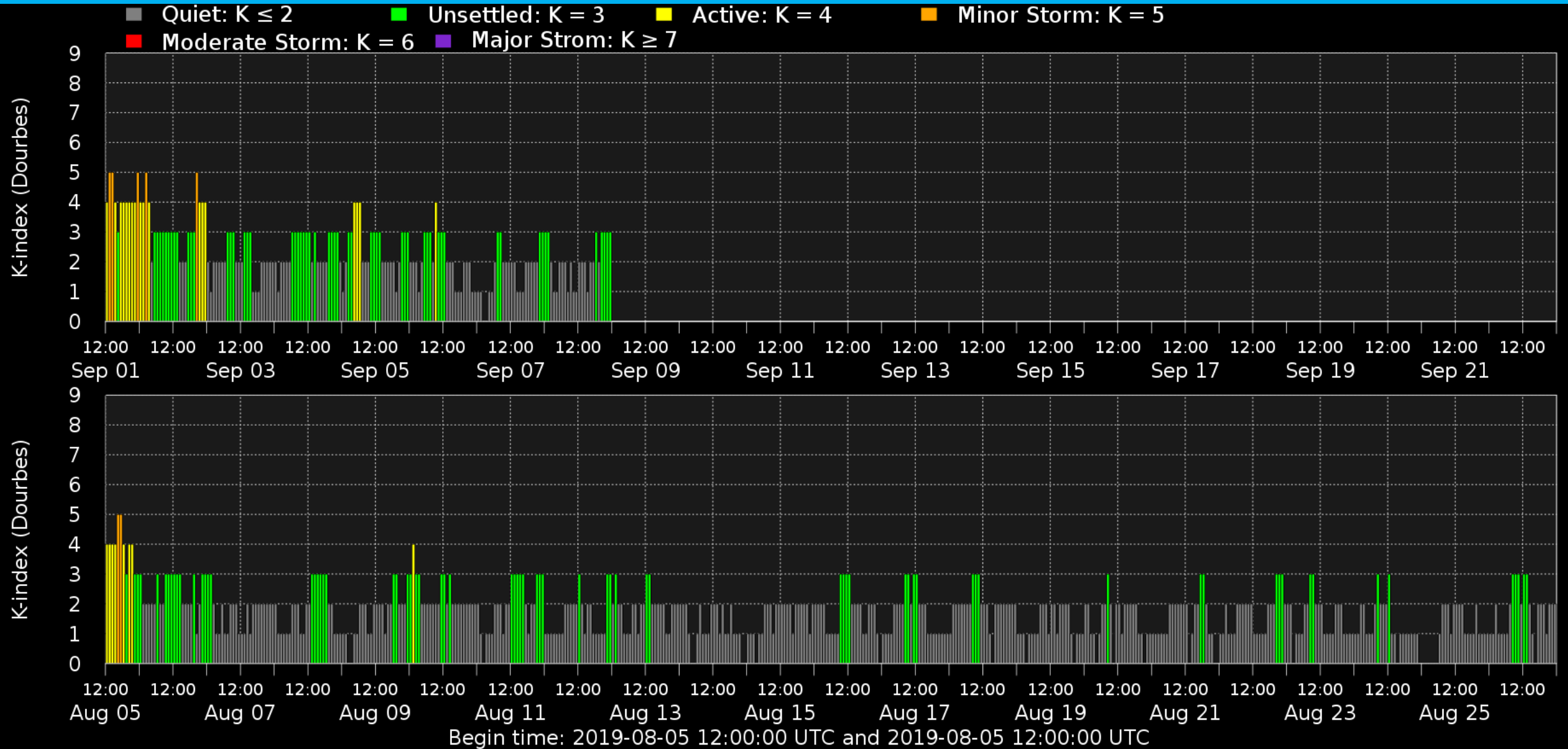
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Outlook: Solar activity



Outlook: Geomagnetic activity



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