

# SIDC Space Weather briefing

November 09-15, 2018

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&  
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Solar Influences  
Data analysis Centre  
[www.sidc.be](http://www.sidc.be)



Royal Observatory  
of Belgium

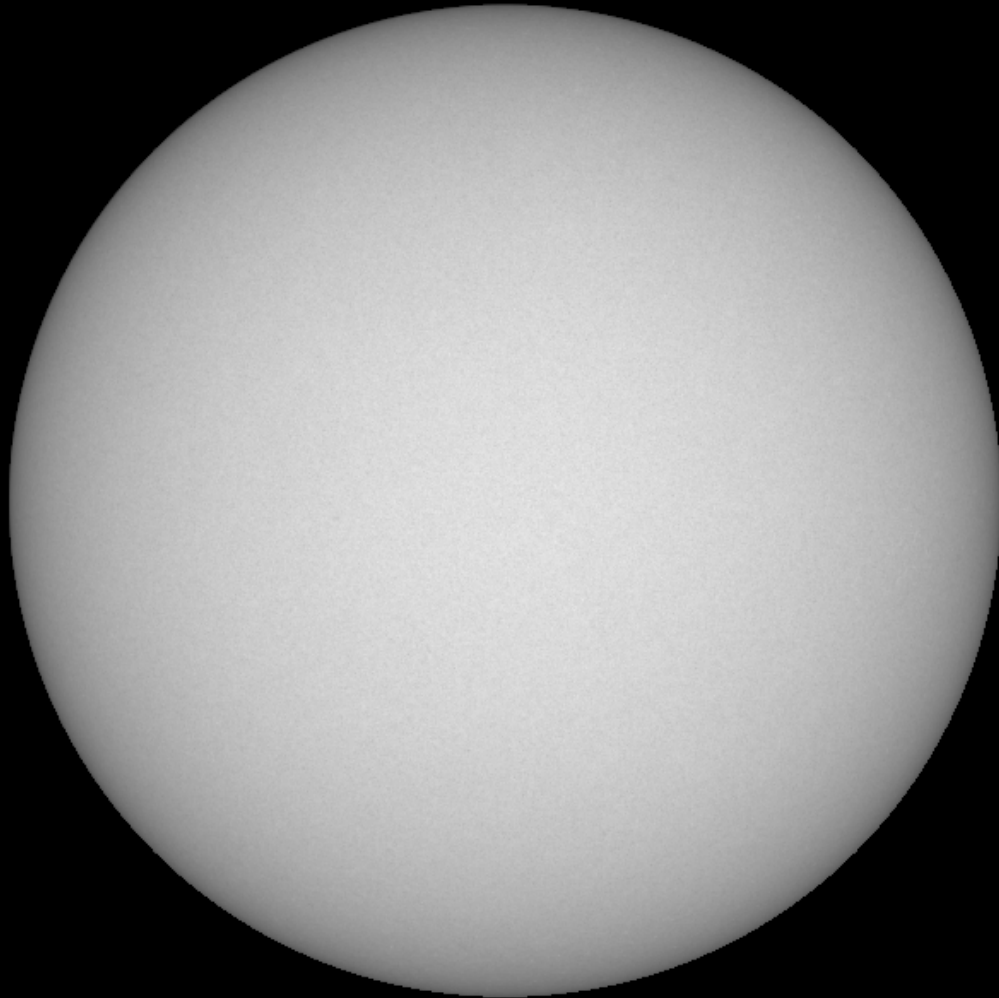
# Summary Report

Active Regions	AR-2704 (NOAA) + <b>Surprise</b>
Flaring	Some B-class flare
CMEs	No Earth directed CME
Filaments	No filament eruption
Proton Event	No proton Event

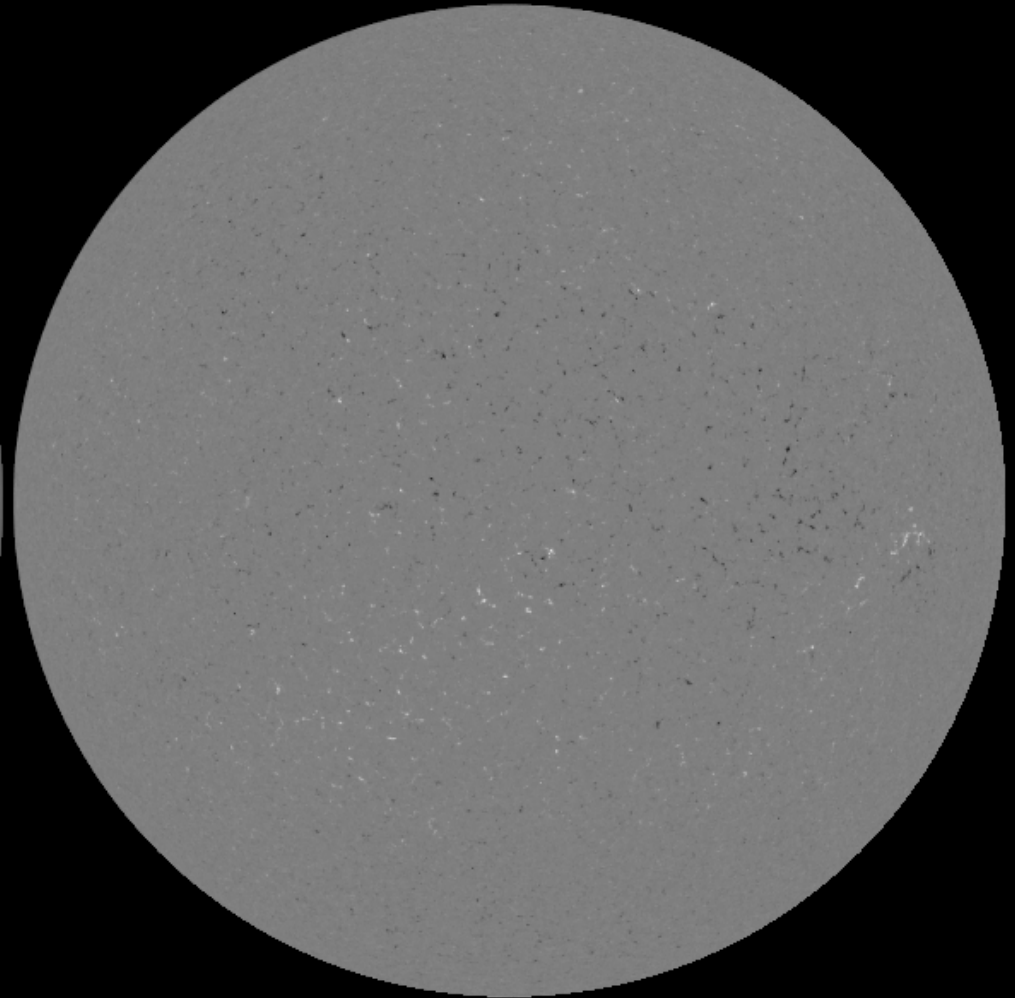
SW conditions	$V_{sw} \sim 600$ km/s
Coronal Hole	Large equatorial CH
ICME	No ICME detected
Kp index	Kp-index max = 5 & K-Dourbs = 4

ALL QUIET ALERT from April 16

# Solar active region evolution

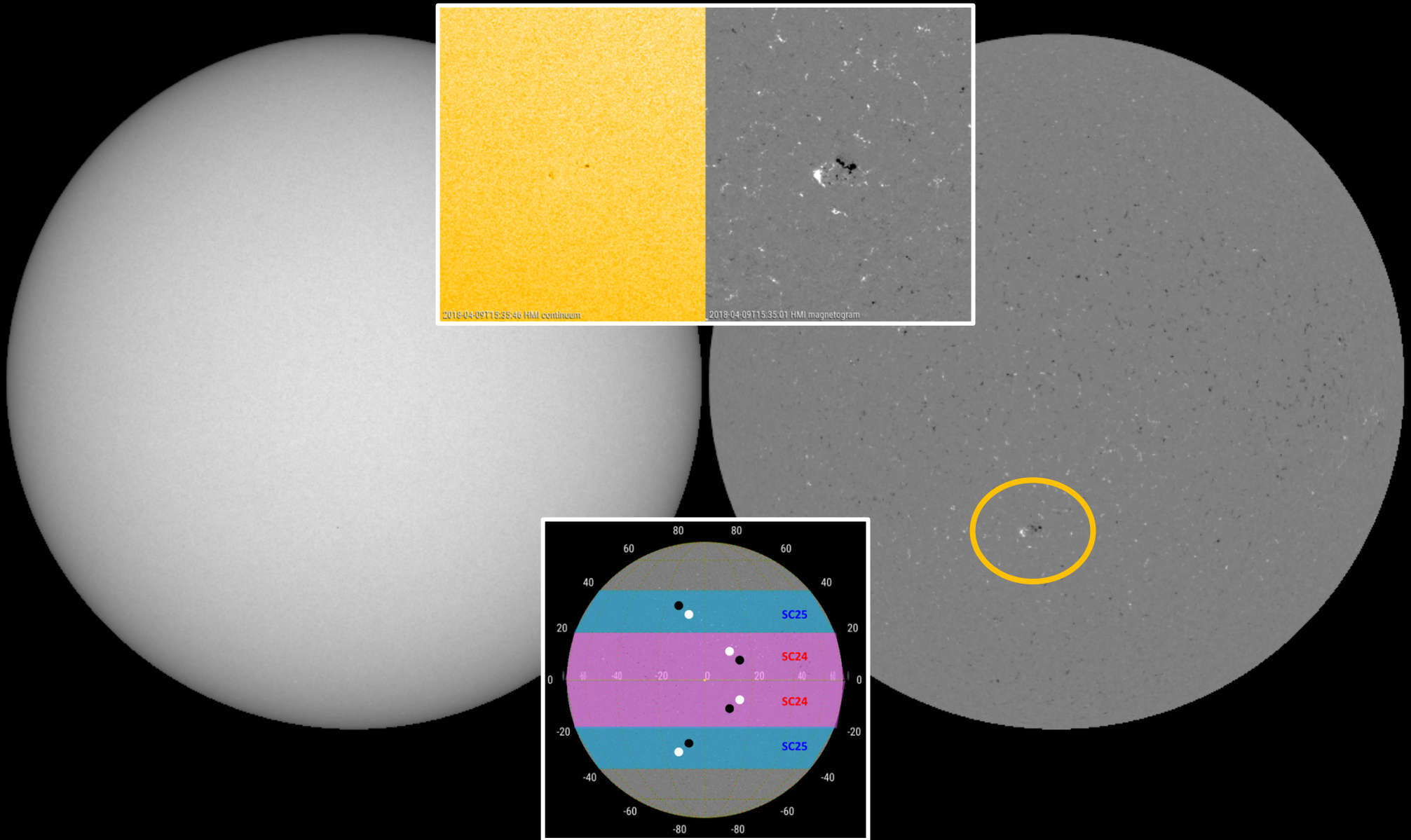


2018-04-09T00:00:31 HMI continuum

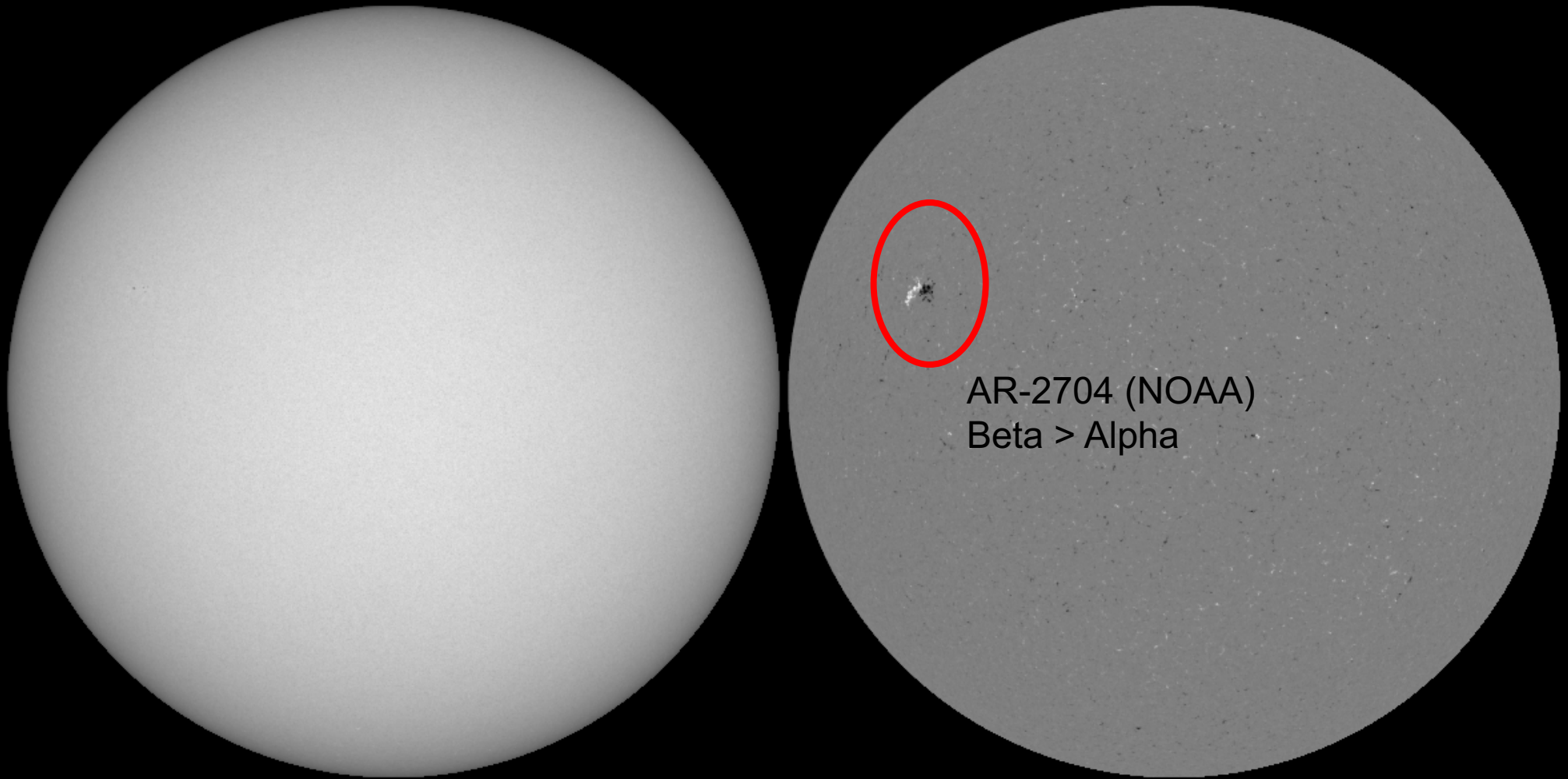


2018-04-09T00:00:31 HMI magnetogram

# Solar active region evolution



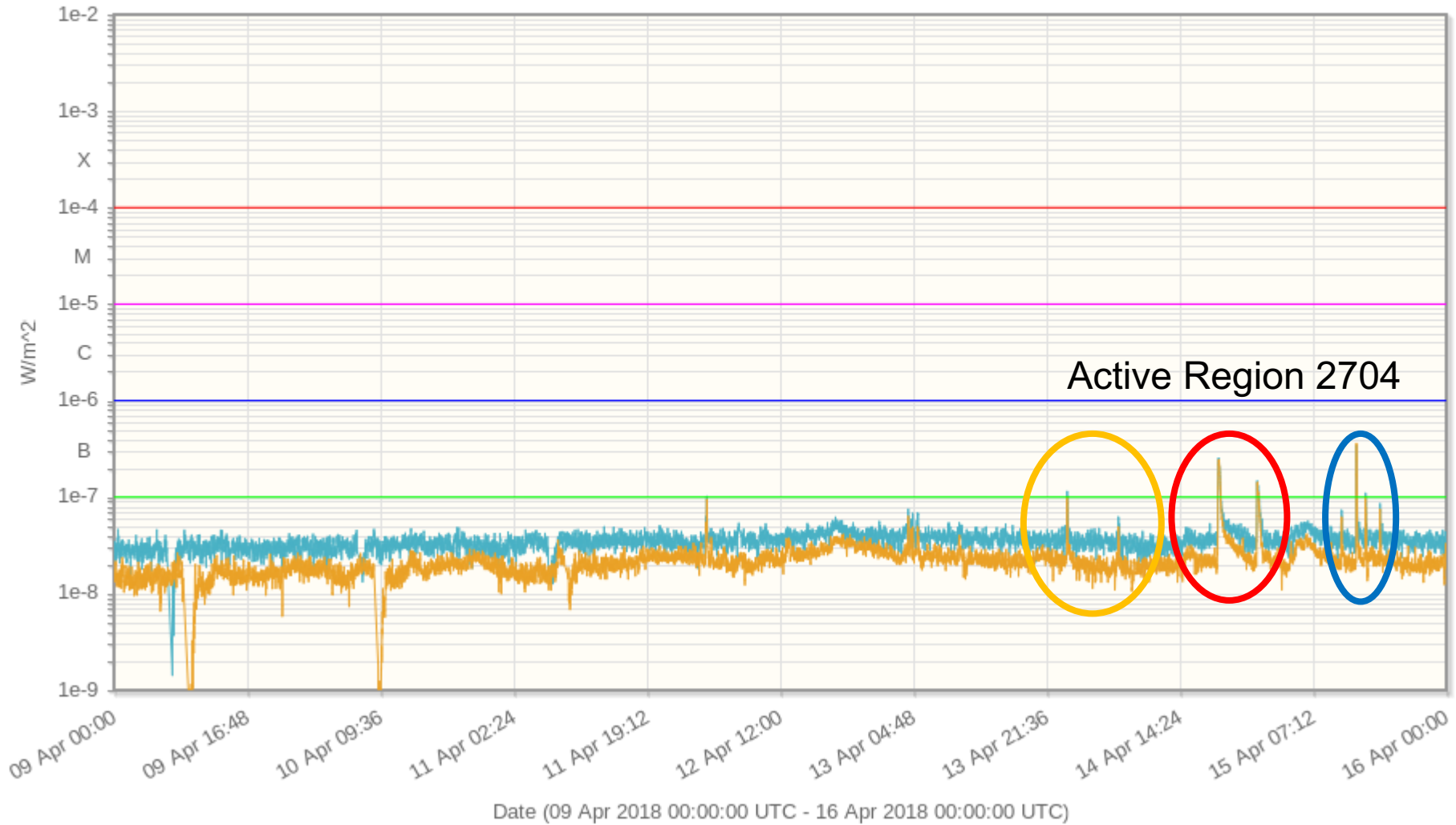
# Solar active region evolution



# Solar X-ray flux and flaring

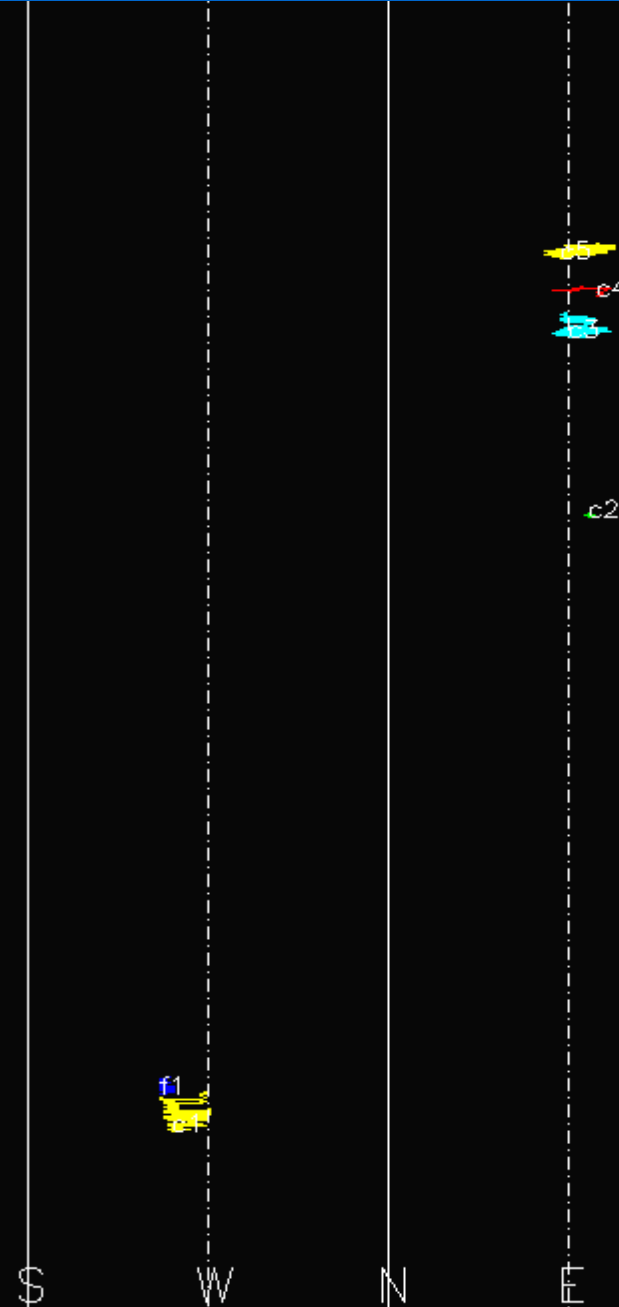
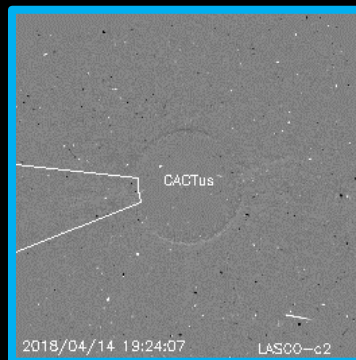
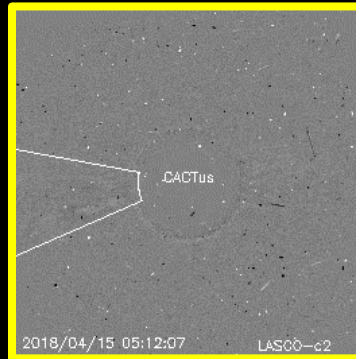
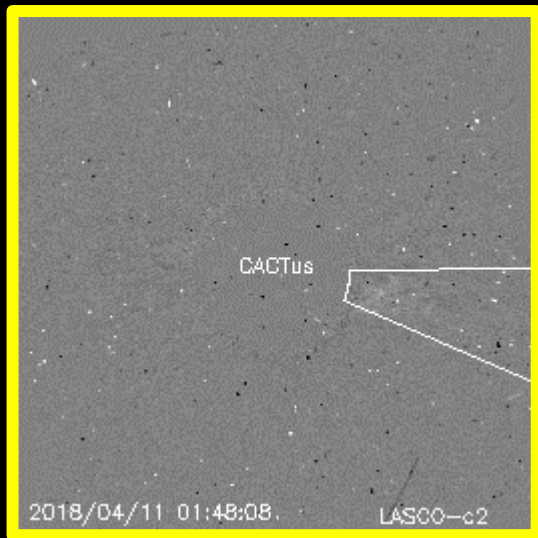
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■ X-Ray - GOES X-Ray flux 0.1-0.8 nm (Secondary) (quicklook) - 9945 data points - (raw - 1 minute data)  
■ X-Ray - GOES X-Ray flux 0.1-0.8 nm (quicklook) - 9952 data points - (raw - 1 minute data)



# CMEs

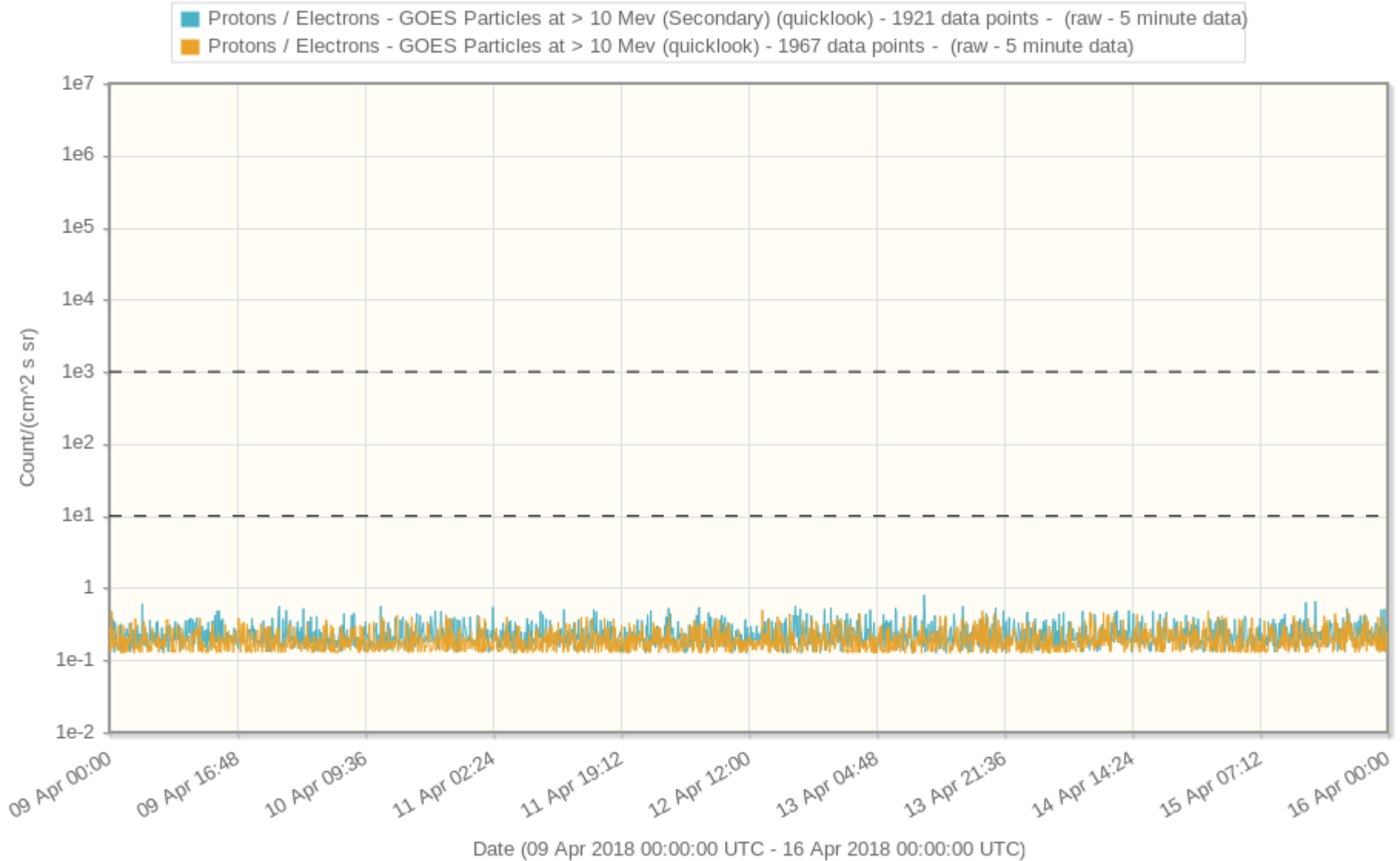
## Backward CMEs



06:12	04/16
03:48	04/16
00:12	04/16
20:36	04/15
17:36	04/15
14:12	04/15
10:00	04/15
07:12	04/15
04:12	04/15
00:36	04/15
21:24	04/14
18:12	04/14
15:36	04/14
12:00	04/14
09:12	04/14
06:24	04/14
03:24	04/14
00:12	04/14
21:18	04/13
18:12	04/13
15:12	04/13
11:00	04/13
07:48	04/13
03:30	04/13
23:36	04/12
20:00	04/12
17:24	04/12
14:12	04/12
10:48	04/12
07:48	04/12
04:48	04/12
01:36	04/12
22:12	04/11
18:48	04/11
15:48	04/11
12:12	04/11
09:30	04/11
06:36	04/11
03:48	04/11
00:24	04/11
21:12	04/10
17:36	04/10
14:48	04/10
11:48	04/10
08:30	04/10
05:48	04/10
03:06	04/10
00:00	04/10

# Energetic particles

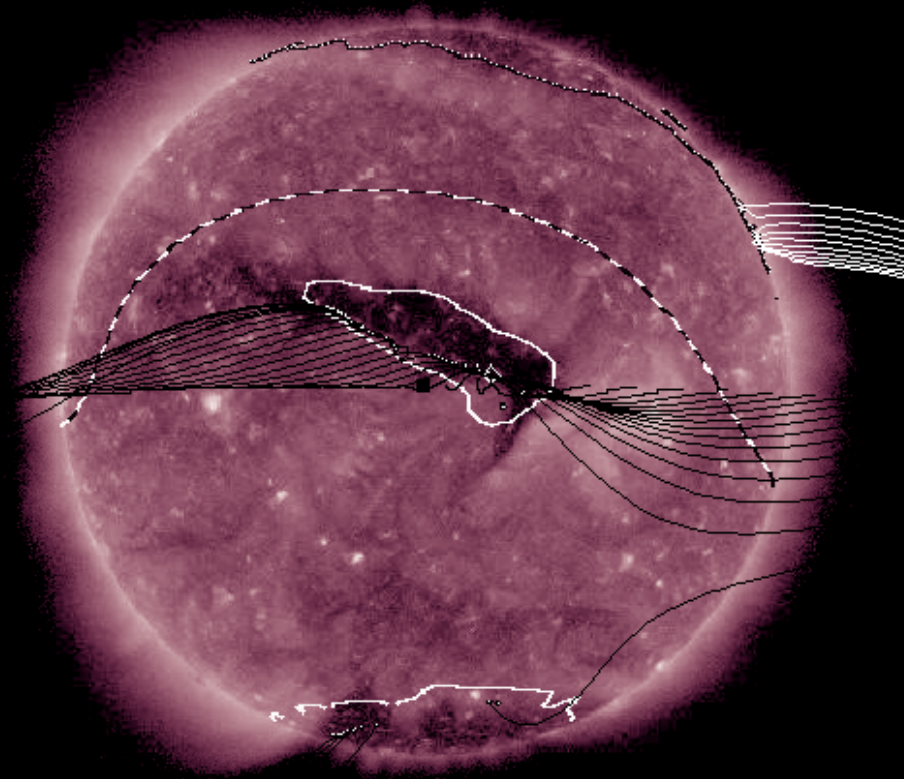
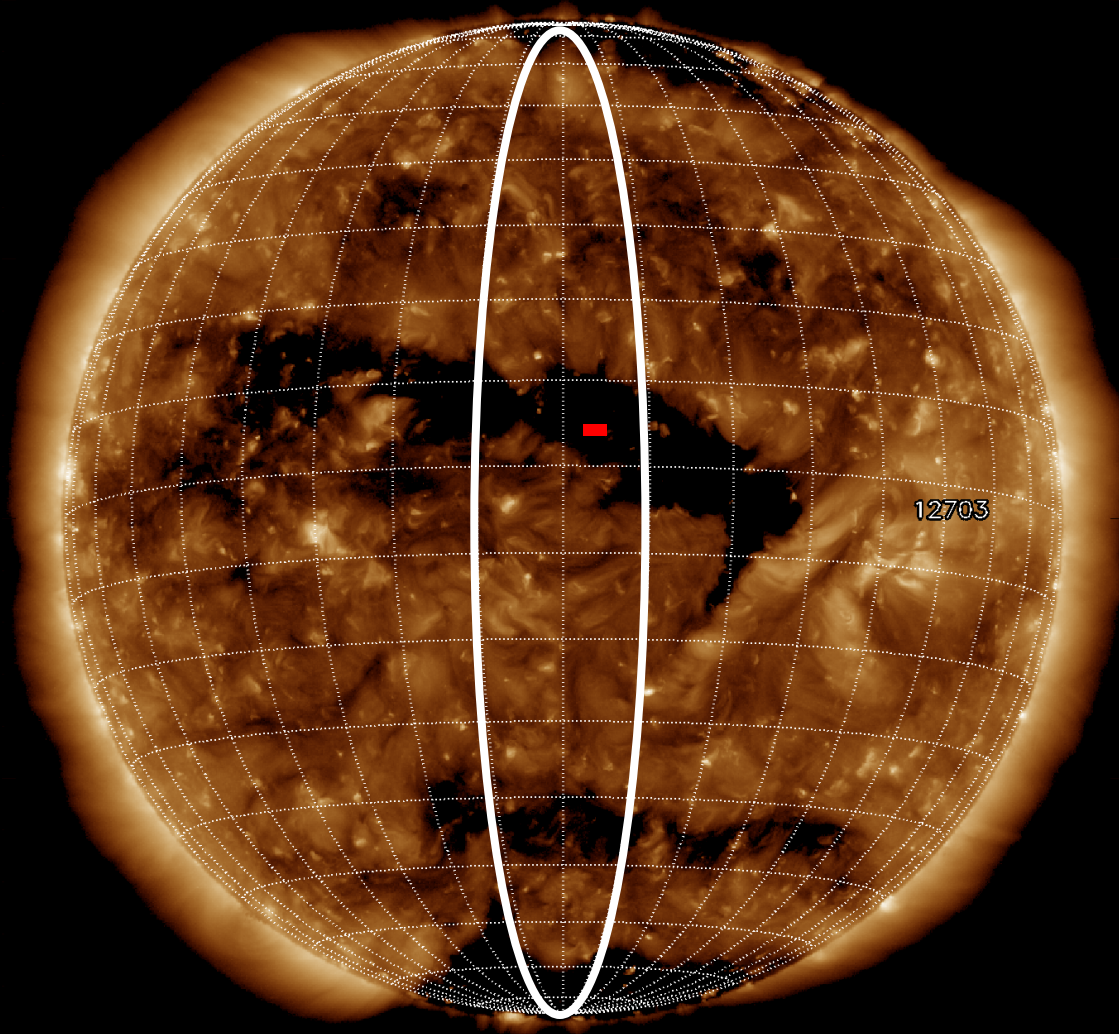
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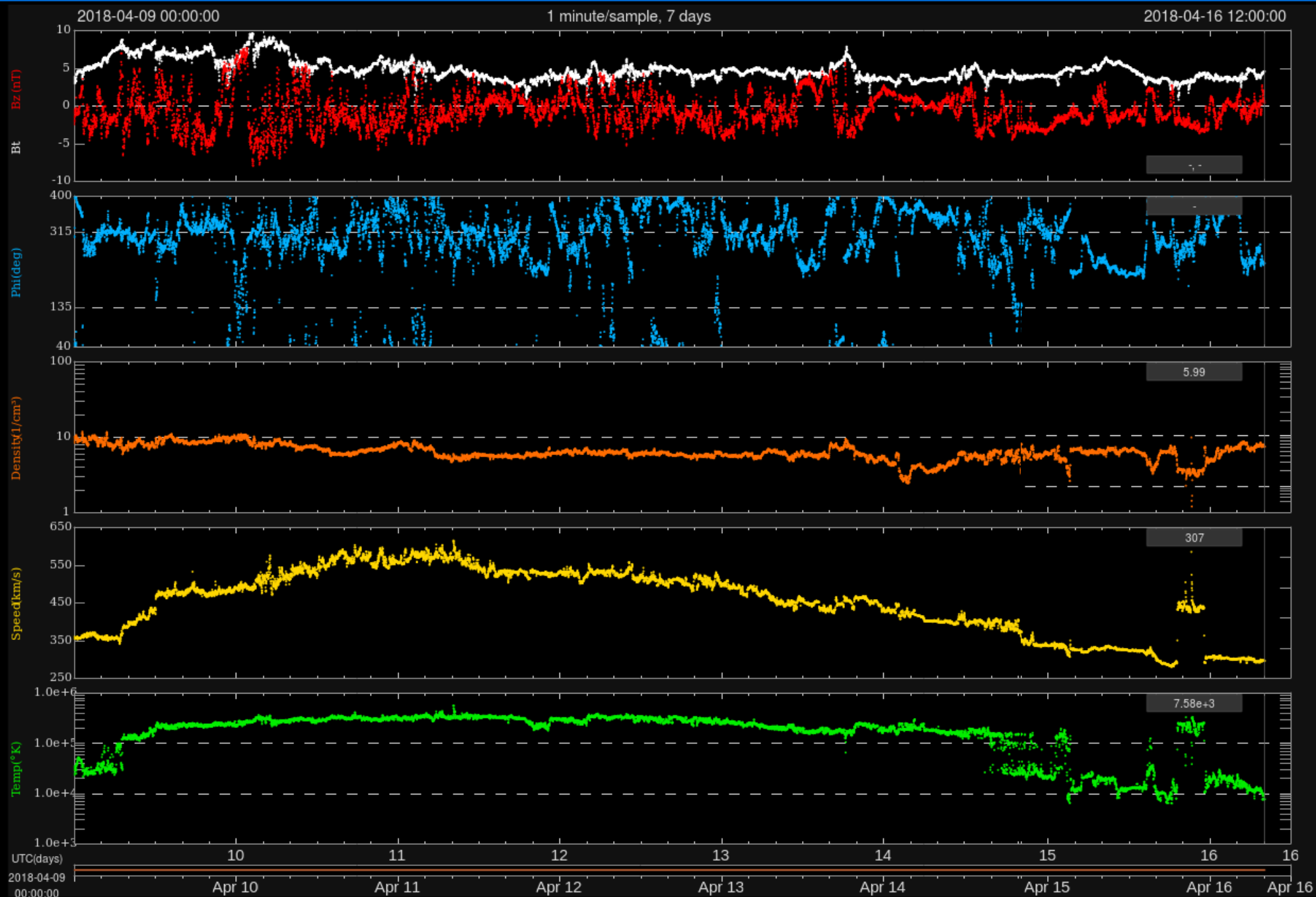
# Coronal holes

SDO AIA Fe XII (193 Å) 7-Apr-2018 23:24:40.840



Model: 2018/04/07 18:04:00  
AIA: 2018/04/07 12:20:55

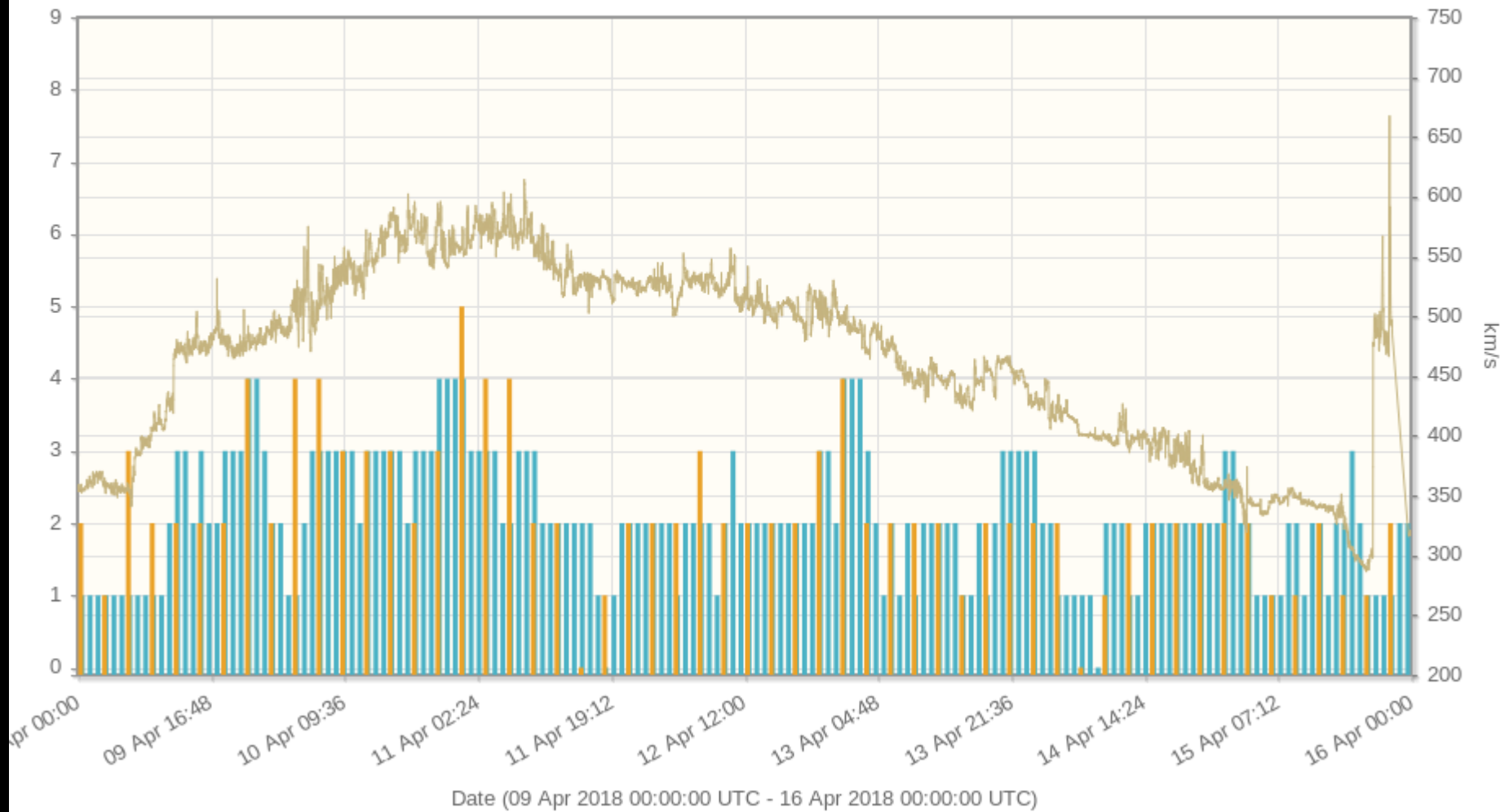
# Solar wind



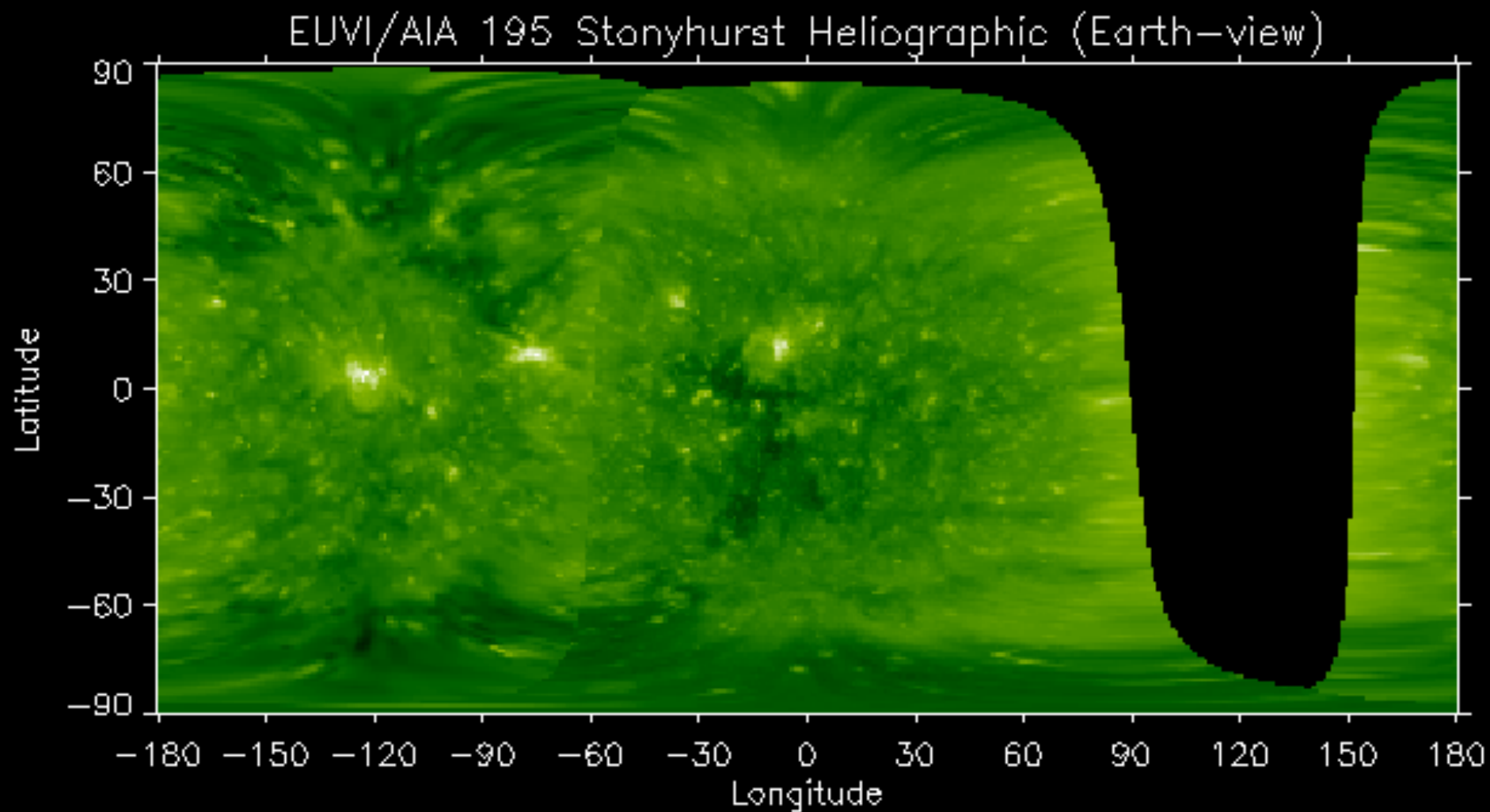
# Geomagnetism

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- Geomagnetic - K (Dourbes) (quicklook) - 169 data points - (raw - 3 hour data)
- Geomagnetic - Kp (NOAA) (quicklook) - 57 data points - (raw - 3 hour data)
- Solar Wind - DSCOVR Solar Wind Speed (quicklook) - 9947 data points - (raw - 1 minute data)



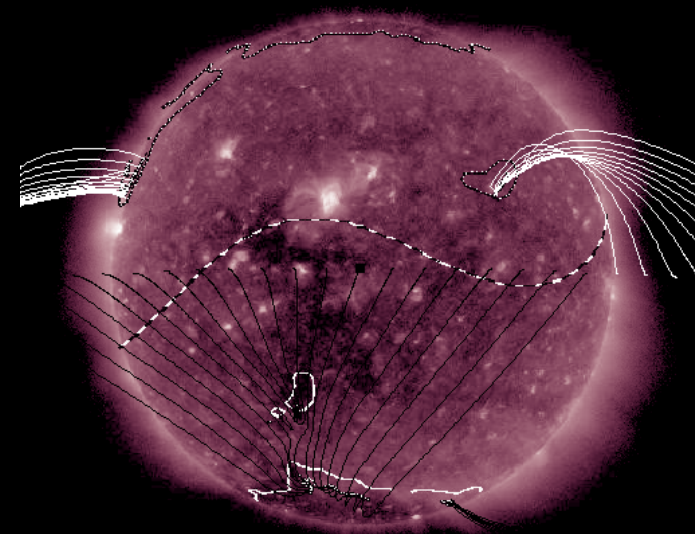
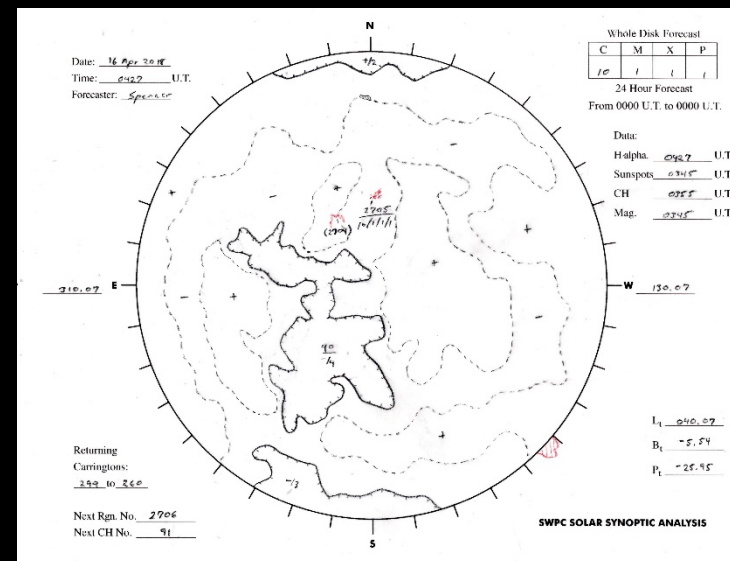
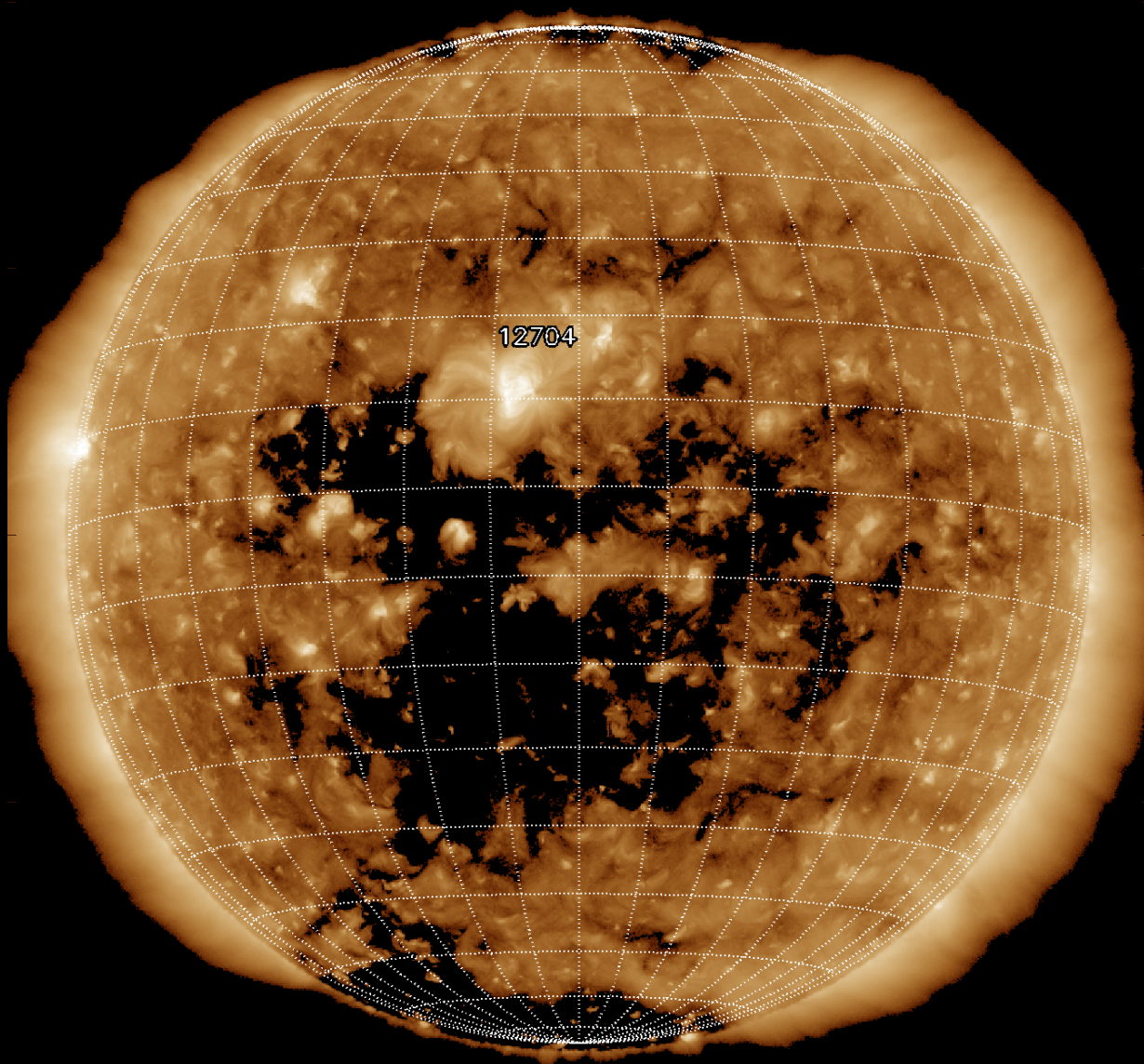
# Outlook



Observation date: 2018/04/16 07:45:30

# Outlook

SDO AIA Fe XII (193 Å) 16-Apr-2018 07:27:28.850



# SIDC Space Weather briefing

See you at our next briefing!

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