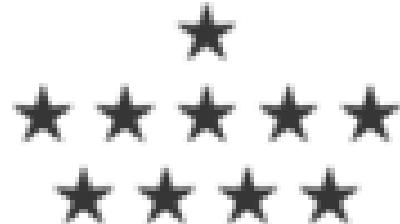


# SIDC Space Weather briefing

21 – 27 May, 2018

Elena Podladchikova  
& SIDC forecaster team

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



Royal Observatory  
of Belgium

Quiet week

# Summary Report

## Solar Activity:

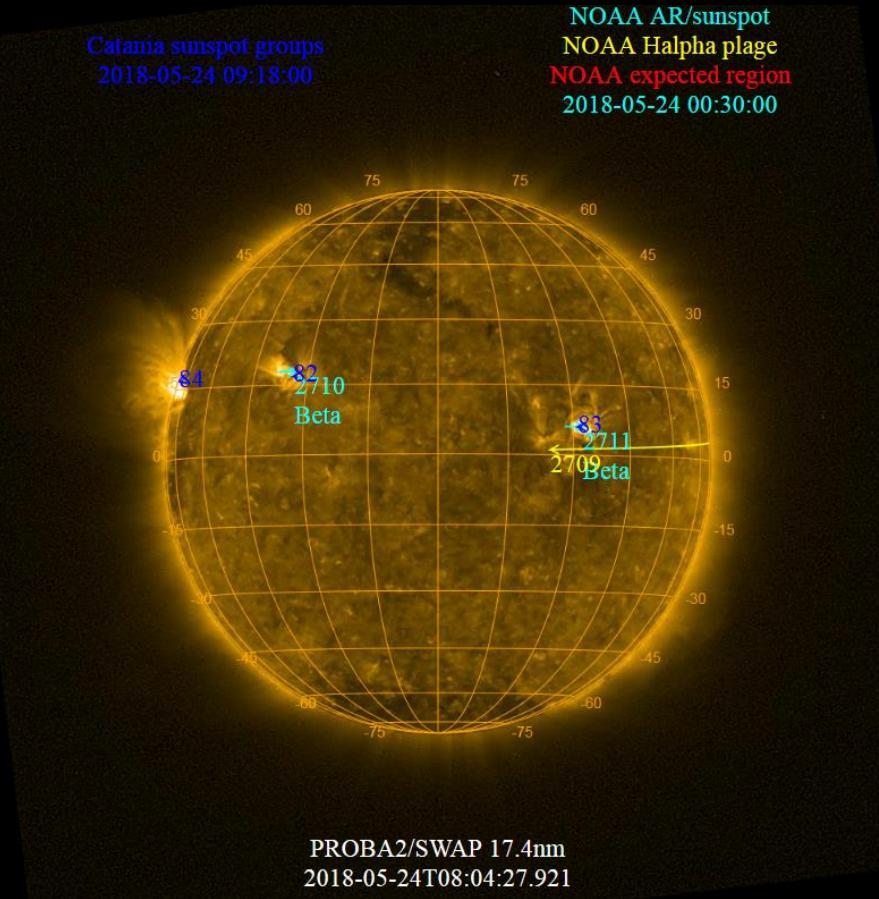
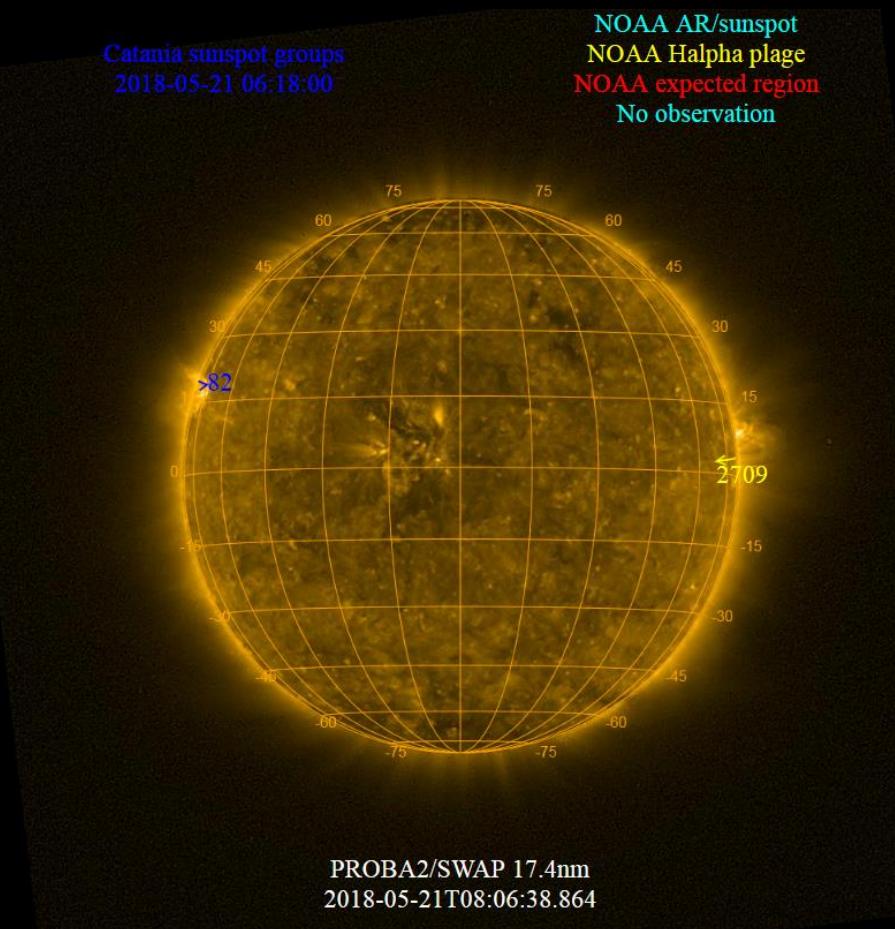
Active Regions	2 regions low complexity, 1 flaring region beyond the limb
Flaring	X-Ray flux below C-class flare + One C2.0
Filaments	2 tiny filaments
CMEs	One mini-CME filament eruption (West)
Proton Events	Background level

## Solar wind and Geomagnetic conditions:

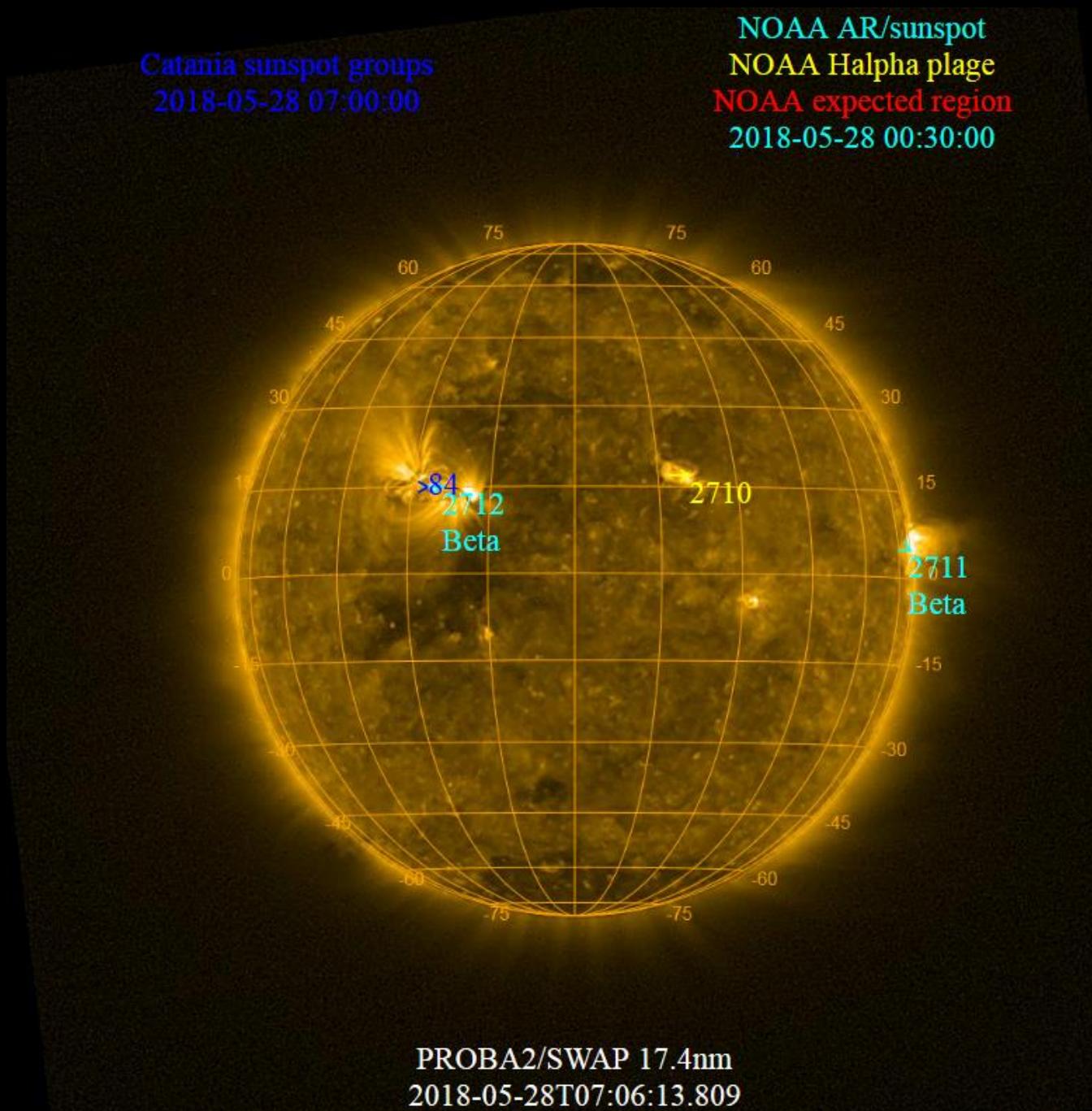
SW conditions	Weak influence of positive polarity CH ( $V < 500$ km/s)
ICME	No Earth directed CME
Kp index	Kp=2 and K-Dourbes=3
Coronal Hole	2 positive polarity coronal holes

End of ALL QUIET ALERT on November 07

# Solar active region evolution



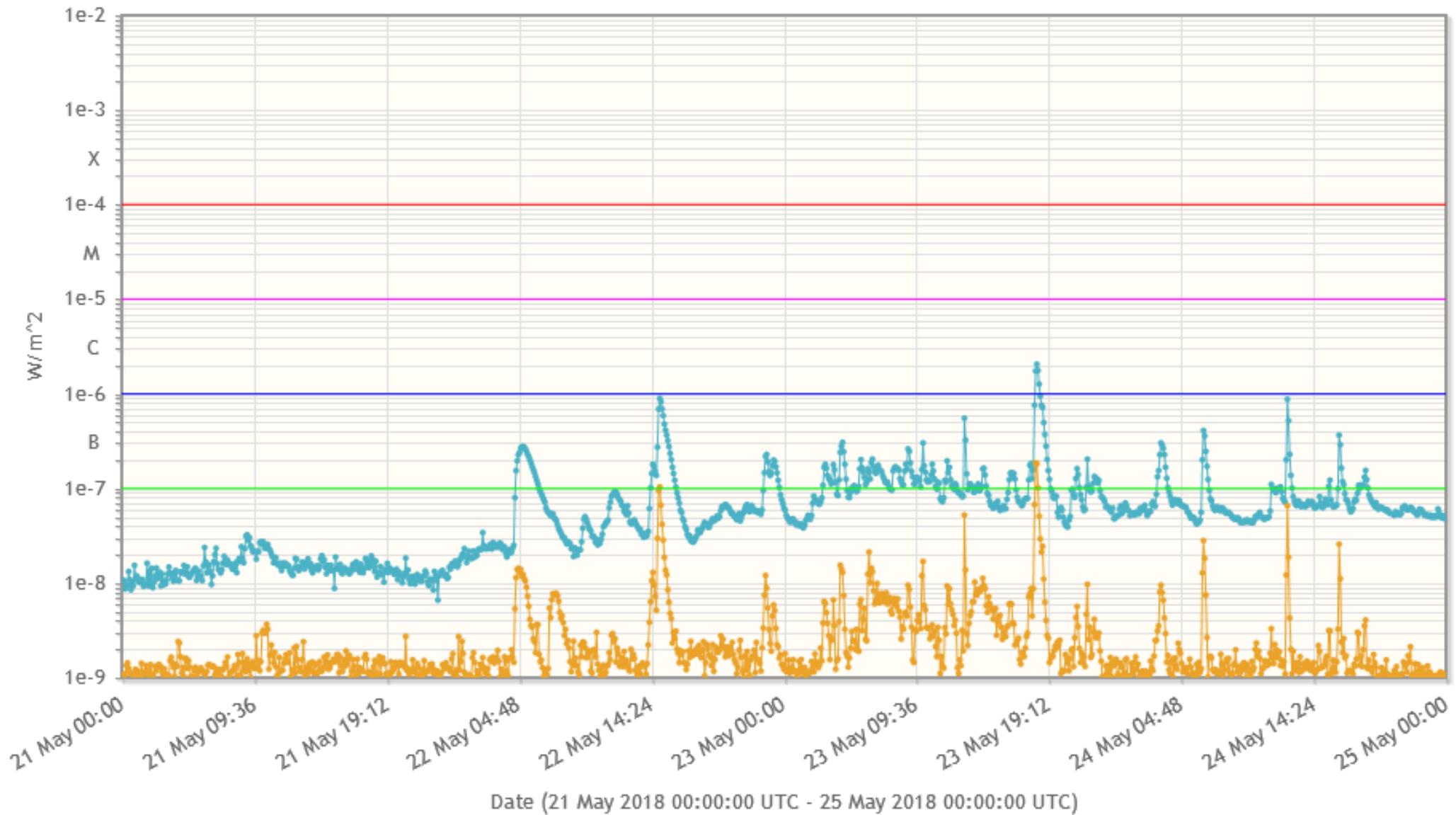
# Solar active region evolution



# Solar X-ray Flux

Plot (21 May 2018 00:00:00 UTC - 25 May 2018 00:00:00 UTC)

- [■] X-Ray - GOES X-Ray flux 0.1-0.8 nm (quicklook) - 1151 data points - (averaged - 5 minute data)
- [■] X-Ray - GOES X-Ray flux 0.05-0.4 nm (quicklook) - 1151 data points - (averaged - 5 minute data)



# Flares

## Solar Demon Flare Detection (qlk)

Quick-look! running in real time on SDO/AIA 94 QKL data  
3 minute cadence, typical delay 15 minutes  
(detection version 1.00)

[\(view all Solar Demon detection tools\)](#)

**Detector 24h operating status:**

**Last processed image:**

0 hours and 18 minutes ago (2018-05-28 07:57 UTC)

**Last detected flare:**

91 hours and 36 minutes ago (2018-05-24 12:39 UTC)

**Filters (category)**

-- [All classes](#)

[Only C class flares and above](#)

[Only M class flares and above](#)

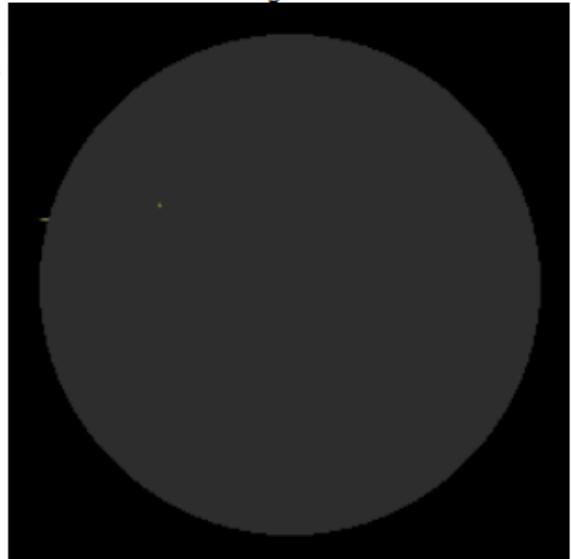
[Only X class flares and above](#)

**Filters (time)**

[Last 7 days](#)

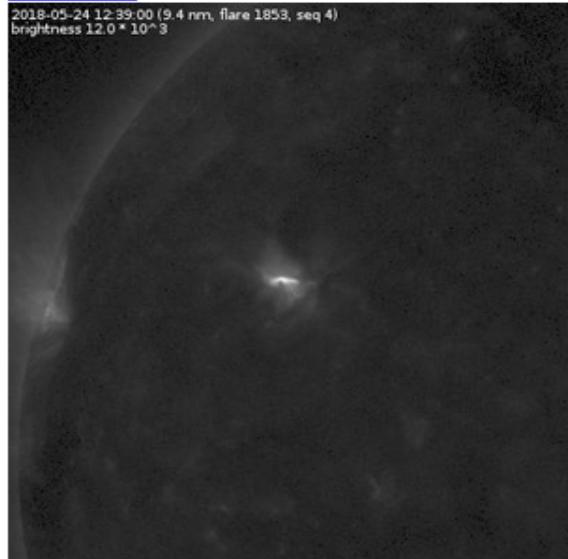
-- [Last 14 days](#)

detected flares during last 2 weeks



[Flare 1853](#)

2018-05-24 12:39:00 (9.4 nm, flare 1853, seq 4)  
brightness  $12.0 \times 10^{-3}$



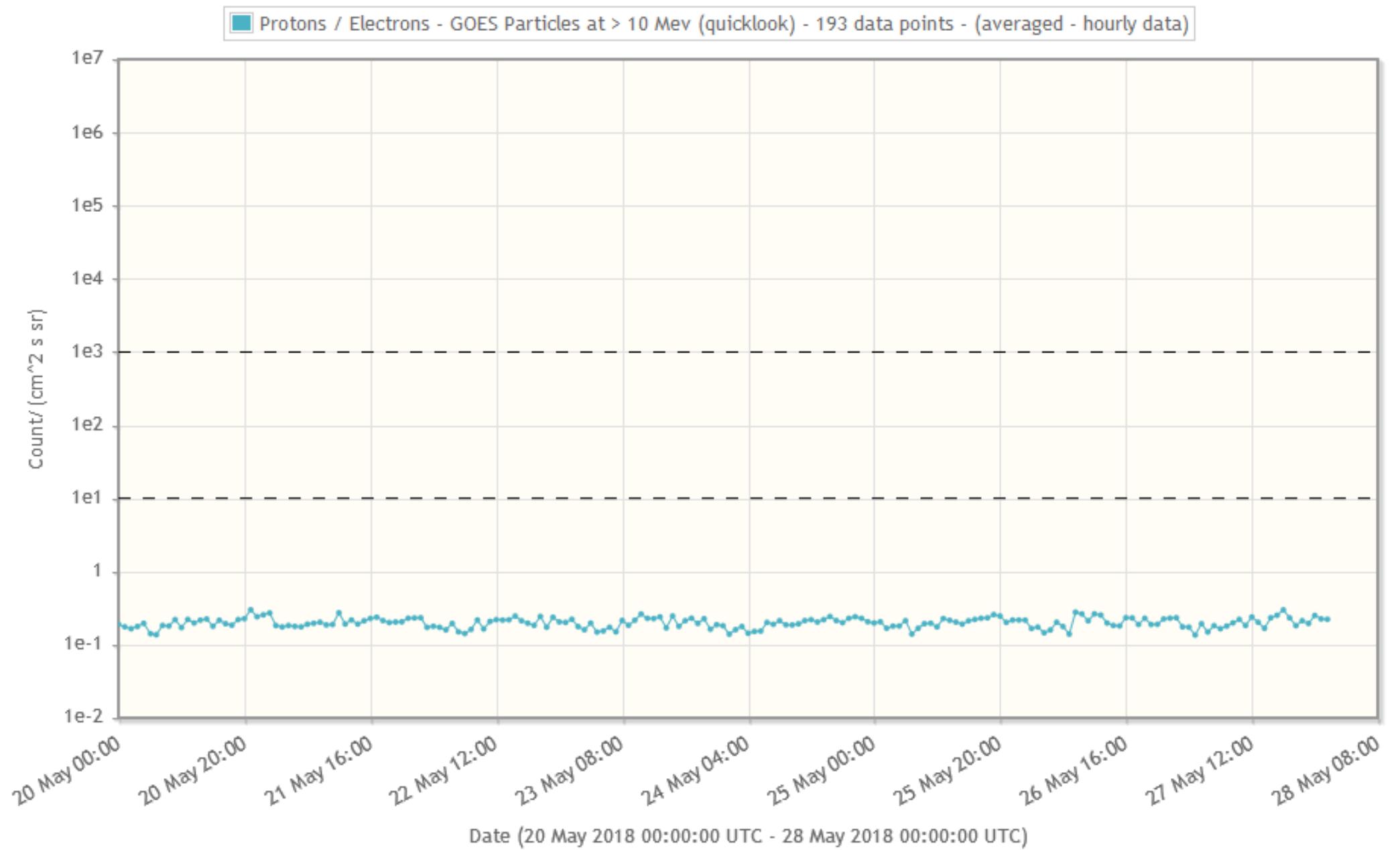
**Overview of flares**

est. class	start	peak	end	#	lat	lon	dist. R $\odot$	AR	est. flux	GOES flux	GOES peak time	COMESEP	# det.	dimming	
<b>May, 2018</b>															
24	B9	12:30	12:33	12:39	<a href="#">1853</a>	17	-33	0.61	AR 2710	9.1	<b>9.8</b>	12:30	-3	0	4
23	C2	18:12	18:27	18:57	<a href="#">1852</a>			1.02		24.4	<b>20.8</b>	18:21	-6	0	16
23	B5	13:06	13:09	13:12	<a href="#">1851</a>			1.01		5.3	<b>8.2</b>	13:05	-4	0	3

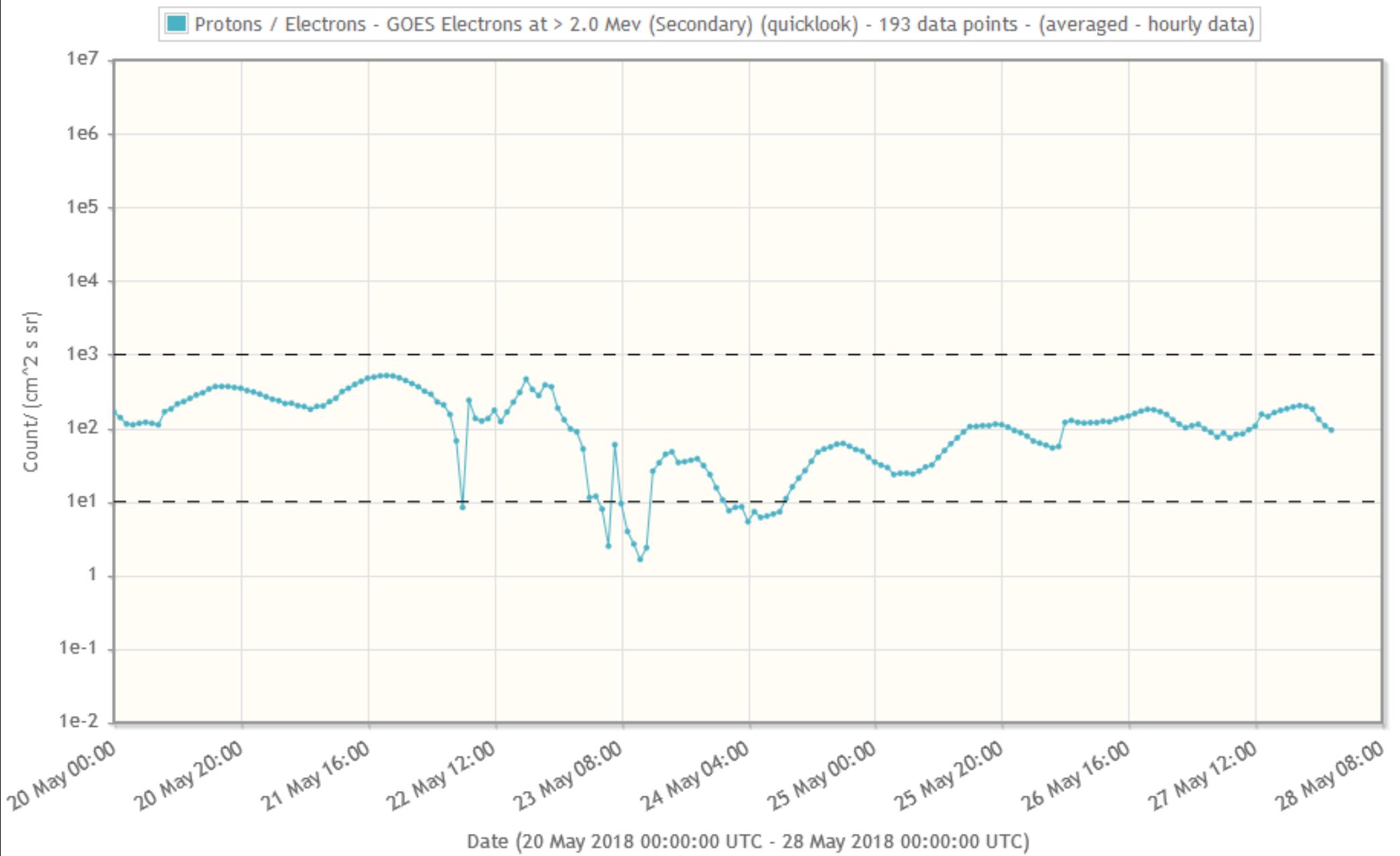
# CMEs



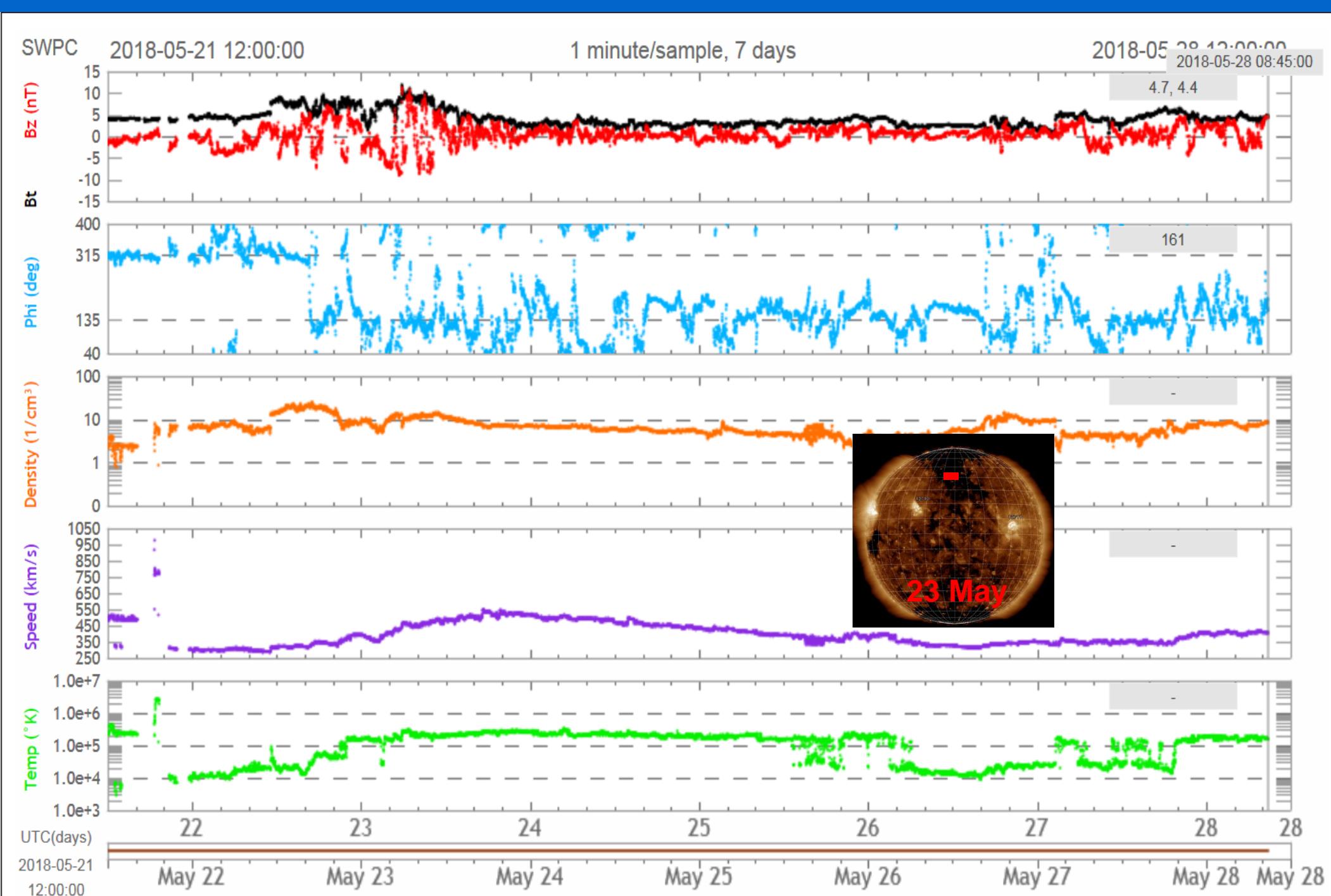
# Energetic particles/Protons



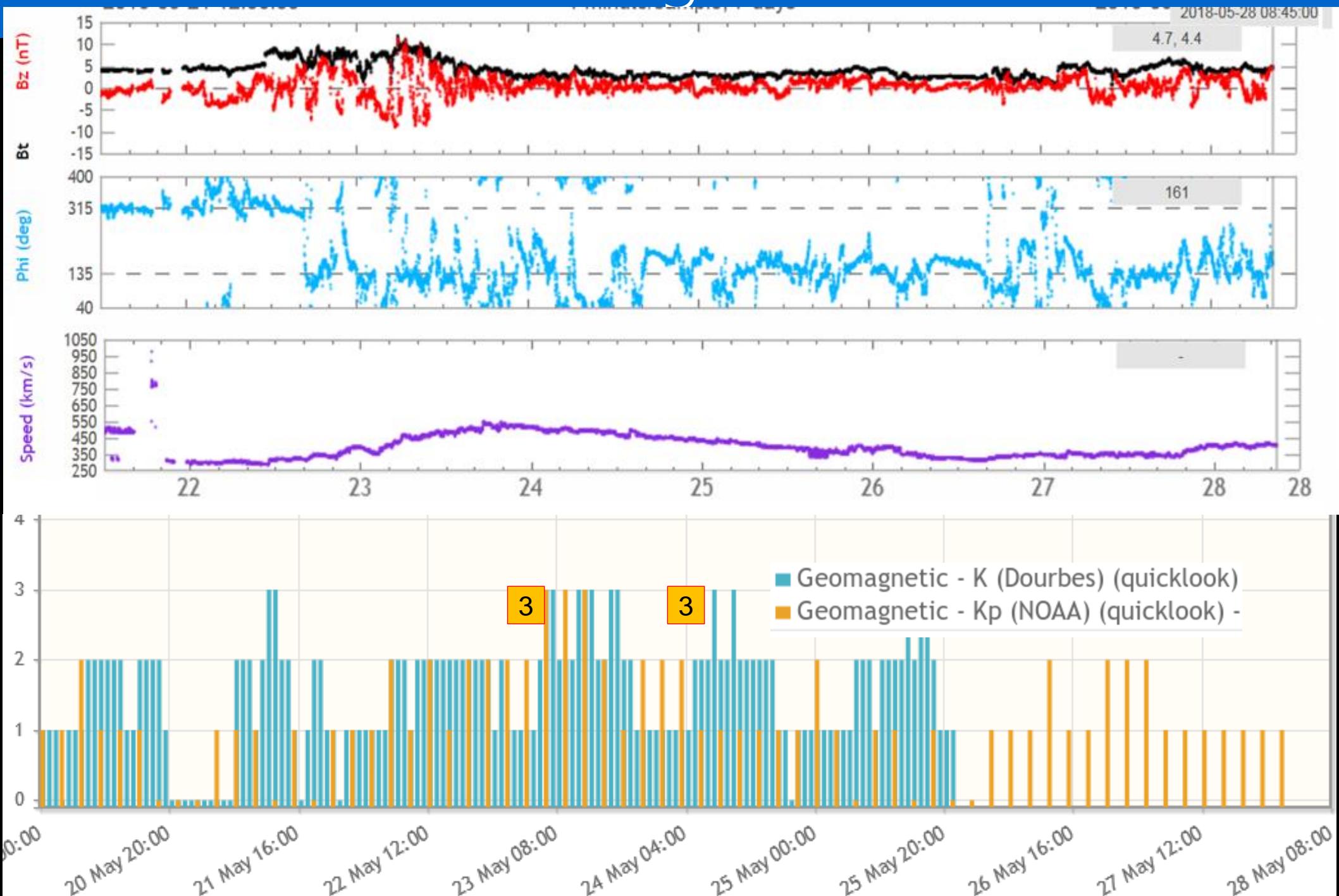
# Energetic particles/Electrons



# Solar wind

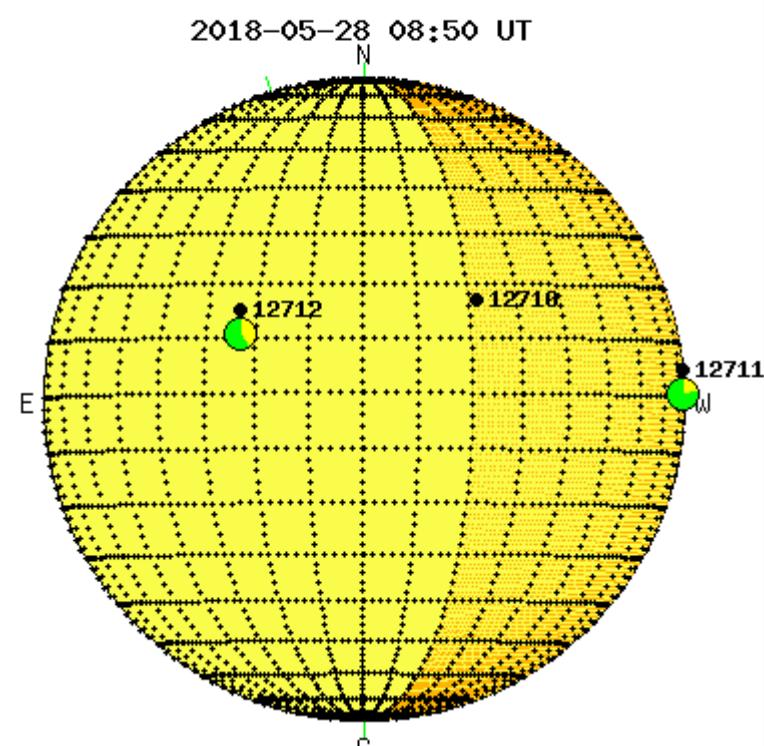


# Geomagnetism

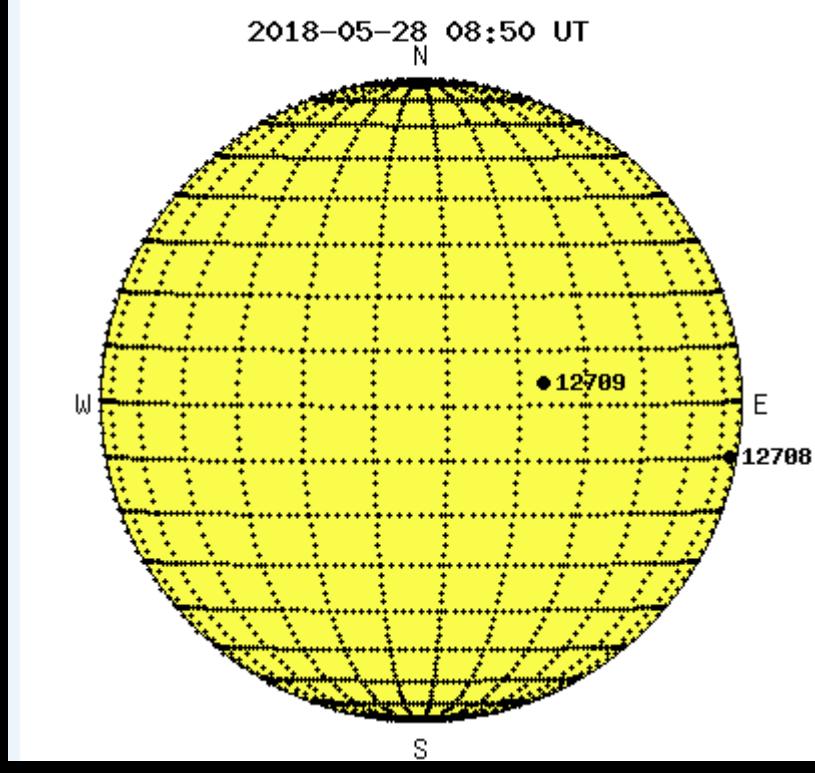


# Outlook

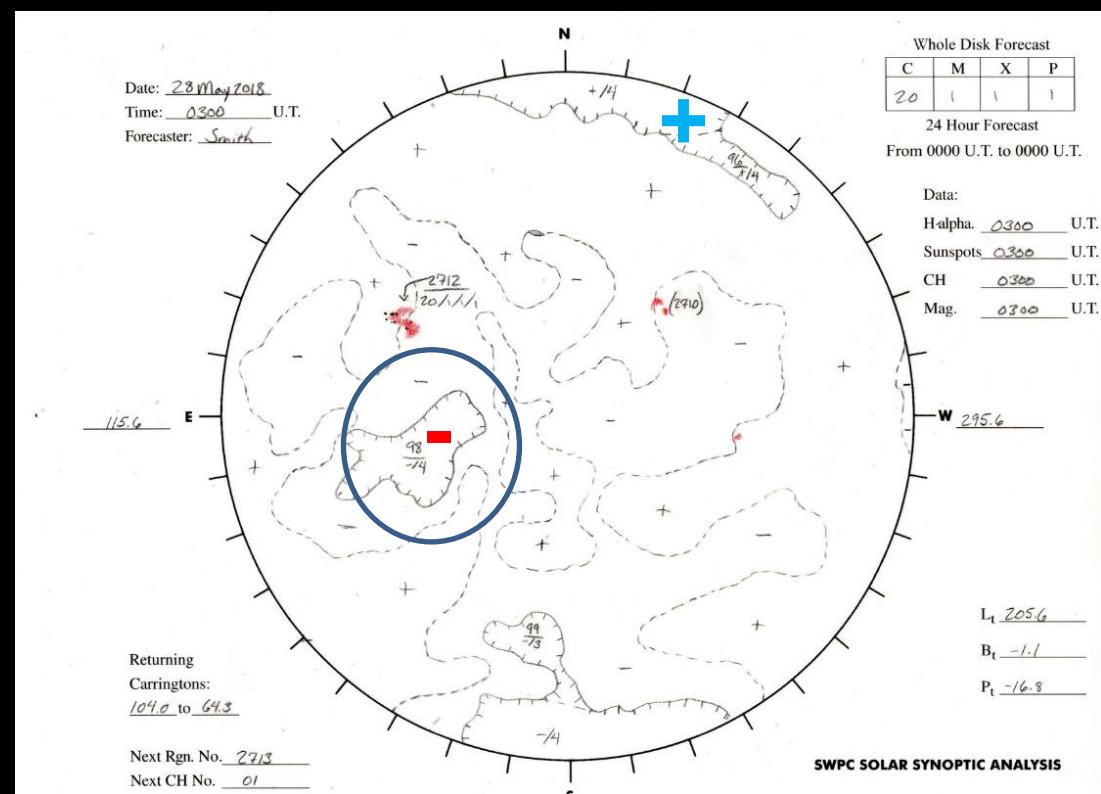
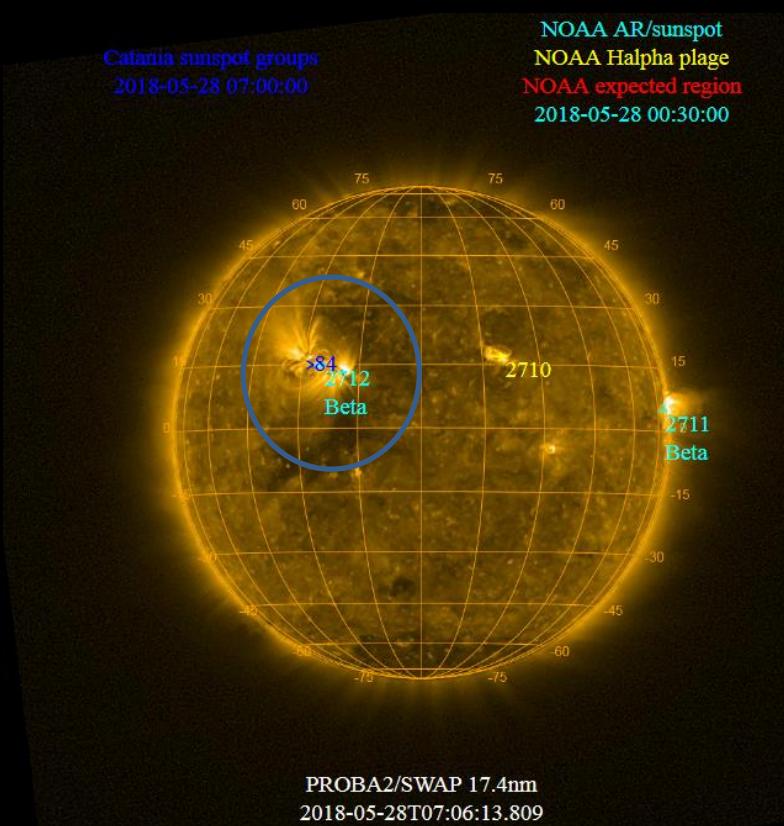
Earth Side View



Far Side View



# Outlook



# SIDC Space Weather briefing

See you at our next briefing!

Or visit us at [www.sidc.be](http://www.sidc.be)

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



Royal Observatory  
of Belgium