

# Monthly Preliminary Report

## MPR



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### CV-Helios Network

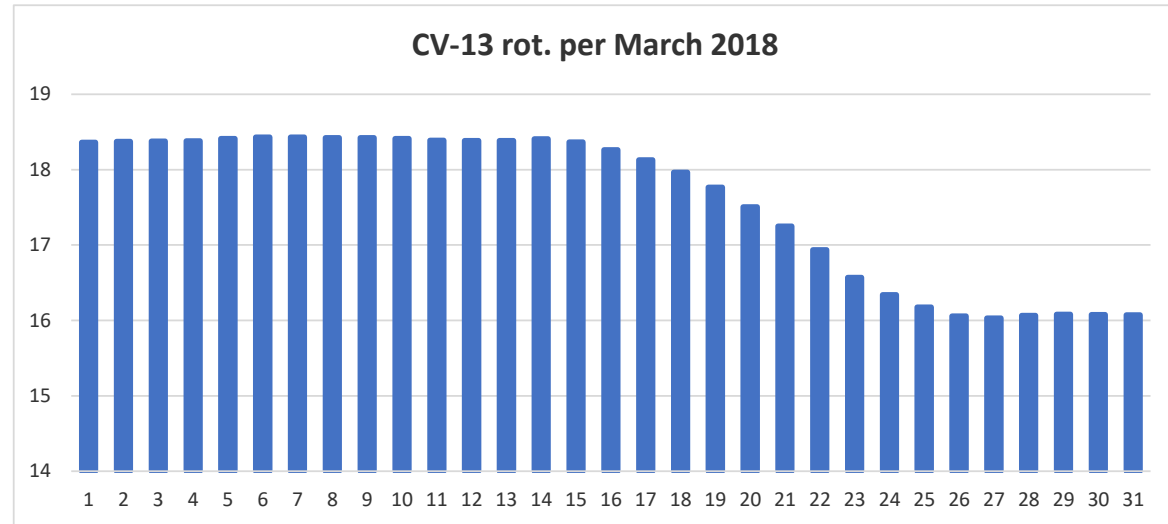
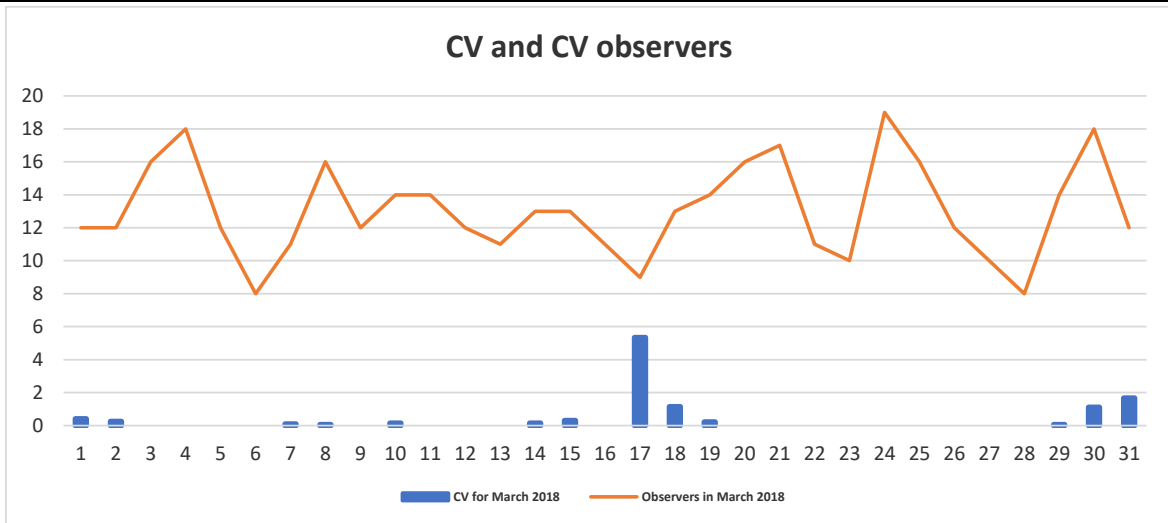
Monthly Preliminary Report for March 2018

Solar Cycle 24: Month no. 113

Report id.: cv1803.xls - CV-report no.: 440

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	0,5	17	1,521	7960
CV-010	DUBOIS, FRANKY	BELGIUM	0,1	21	0,308	8057
CV-019	JUNKER, ELMAR	GERMANY	0,0	6	0,000	3210
CV-020	HOLL, MANFRED	GERMANY	3,8	9	12,210	4957
CV-021	BARNES, HOWARD	NEW ZEALAND	0,1	17	0,190	4015
CV-022	VIERTEL, ANDREAS	GERMANY	0,0	10	0,000	5238
CV-023	BRETSCHNEIDER, HART	GERMANY	0,2	19	0,510	4566
CV-038	MORALES, GERMAN	BOLIVIA	1,0	27	3,352	6457
CV-044	SCHRÖDER, GERD	GERMANY	0,0	12	0,000	3940
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	0,1	11	0,294	2568
CV-080	JANSENS, JAN	BELGIUM	0,0	1	0,000	920
CV-082	URBANSKI, PIOTR	POLAND	0,5	14	1,616	4224
CV-086	TOS-POLAND	POLAND	0,3	31	0,834	6716
CV-091	DALEK, GRZEGORZ	POLAND	0,3	20	0,970	3637
CV-104	MEEUS, LIEVE	BELGIUM	0,0	8	0,000	2126
CV-105	RYBACK, ALEXEY	RUSSIA	0,5	16	1,616	2703
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	0,0	17	0,000	2021
CV-135	ARAUJO, GEMA	SPAIN	0,3	30	1,077	5533
CV-136	GARCÍA, FAUSTINO	SPAIN	0,2	18	0,718	2929
CV-139	ALONSO, JAVIER	SPAIN	0,1	11	0,294	2949
CV-151	CARELS, JEFFREY	BELGIUM	0,0	14	0,000	2098
CV-171	MALUF, WALTER JOSE	BRAZIL	0,0	26	0,000	1684
CV-181	DERDZIKOWSKI, ADAM	POLAND	0,0	9	0,000	761
CV-202	ZAMORA, JORDI	SPAIN	0,1	27	0,239	474
CV-204	MEISTER, STEFAN	SWITZERLAND	0,1	11	0,294	18
CV-205	MANGELSDORF, TOM	UNITED STATES	0,5	2	1,616	2
Totals	Observers 26	Days 31	CV 0,33	No 404	K 1,064	

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<b>Results</b>						
Date	CV	Obsrvrs	USAF	std.dev.	CV-6 rot.	CV-13 rot.
1	0,42	12			9,63	18,36
2	0,25	12			9,57	18,37
3	0,00	16			9,43	18,38
4	0,00	18			9,28	18,38
5	0,00	12			9,18	18,41
6	0,00	8			9,12	18,43
7	0,09	11			8,97	18,43
8	0,06	16			8,49	18,42
9	0,00	12			7,97	18,42
10	0,14	14			7,45	18,41
11	0,00	14			6,97	18,39
12	0,00	12			6,58	18,38
13	0,00	11			6,27	18,39
14	0,15	13			5,95	18,41
15	0,31	13			5,60	18,36
16	0,00	11			5,31	18,26
17	5,33	9	1,62	2,63	5,09	18,13
18	1,15	13	0,03	0,79	4,74	17,96
19	0,21	14			4,51	17,76
20	0,00	16			4,44	17,51
21	0,00	17			4,42	17,25
22	0,00	11			4,43	16,94
23	0,00	10			4,44	16,57
24	0,00	19			4,43	16,34
25	0,00	16			4,44	16,18
26	0,00	12			4,45	16,06
27	0,00	10			4,47	16,03
28	0,00	8			4,49	16,06
29	0,07	14			4,51	16,08
30	1,11	18	0,02	0,77	4,51	16,08
31	1,67	12	0,15	1,07	4,53	16,07
<b>Totals/ Avrgs</b>	<b>0,35</b>	<b>13,0</b>	<b>0,46</b>	<b>1,32</b>	<b>6,46</b>	<b>16,13</b>



**Solar Region Summary for March 2018**

Reg.-First day-Last day-Lat.-Lon.-Rot.-Area-Lgth.-CVtot.-class14d
2700-27.02.18-03.03.18-N06-328-2201-30-4-2,0-CRO-BXO-AXX-AXX-AXX
2701-16.03.18-16.03.18-S12-99-2201-10-0-1,0-AXX
2702-18.03.18-19.03.18-N21-112-2201-10-3-2,0-BXO-BXO
2703-31.03.18-31.03.18-S08-192-2202-10-1-1,0-AXX
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**:Product: Weekly Highlights and Forecasts**

:Issued: 2018 Apr 09 0536 UTC  
 # Prepared by the US Dept. of Commerce, NOAA, Space Weather Prediction Center  
 # Product description and SWPC contact on the Web  
 # <http://www.swpc.noaa.gov/weekly.html>  
 #  
 #           Weekly Highlights and Forecasts  
 #  
 Highlights of Solar and Geomagnetic Activity  
 02 - 08 April 2018

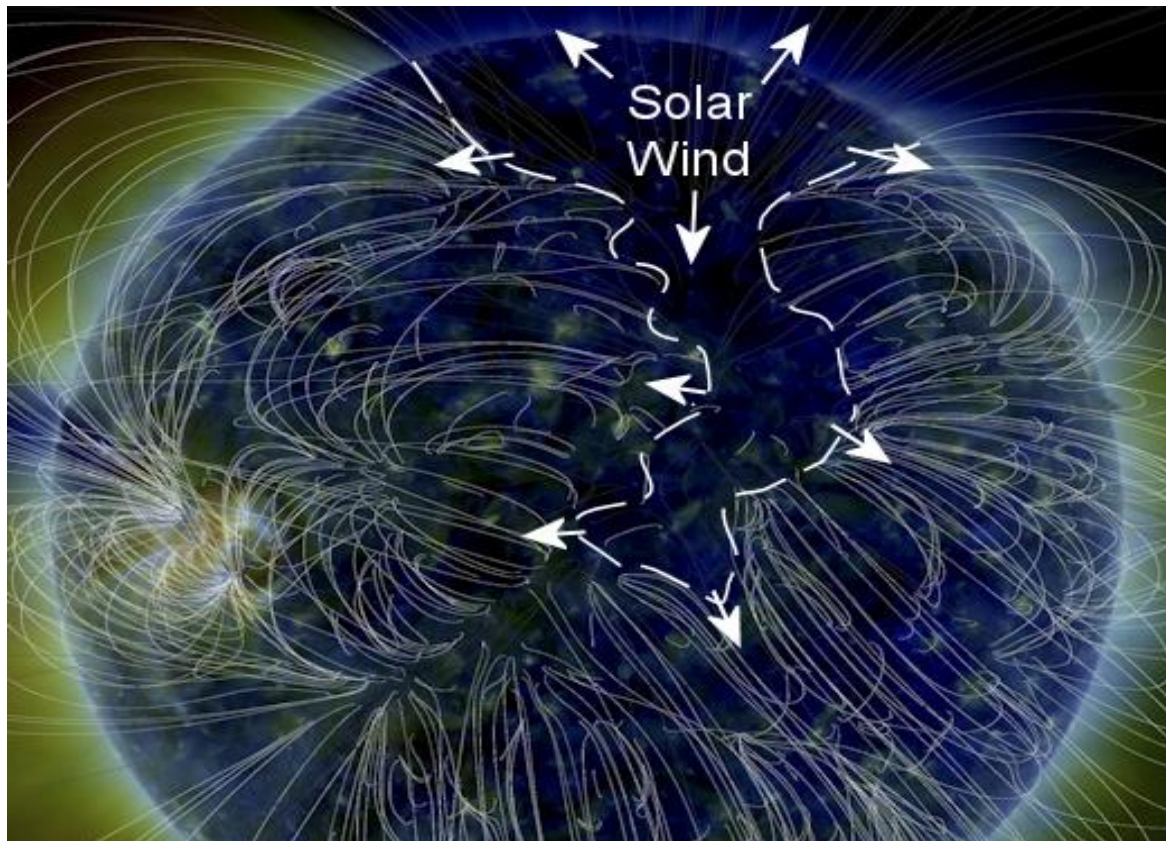
Solar activity was at very low levels throughout the period with only a few low level B-class flare observed on 03 Apr from Region 2703 (S08, L=193, class/area Axx/010 on 31 Mar). No Earth-directed coronal mass ejections were observed.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reached high levels on 02-04 Apr and at moderate levels on 05-08 Apr. The largest flux of the period was 2,150 pfu observed at 02/1915 UTC.

Geomagnetic field activity was mostly quiet with unsettled periods observed on 05 Apr. Solar wind speed began the period slightly enhanced near 470 km/s with total field around 4-5 nT. Solar wind speed declined to near 320 km/s by 04 April before increasing briefly to near 450 km/s by late on 05 Apr. Total field increased to a maximum of 9 nT at 05/2130 UTC. By 07 Apr, solar wind speed had decreased to 330-380 km/s while the total field decreased to 5 nT or less.

## Image Reports



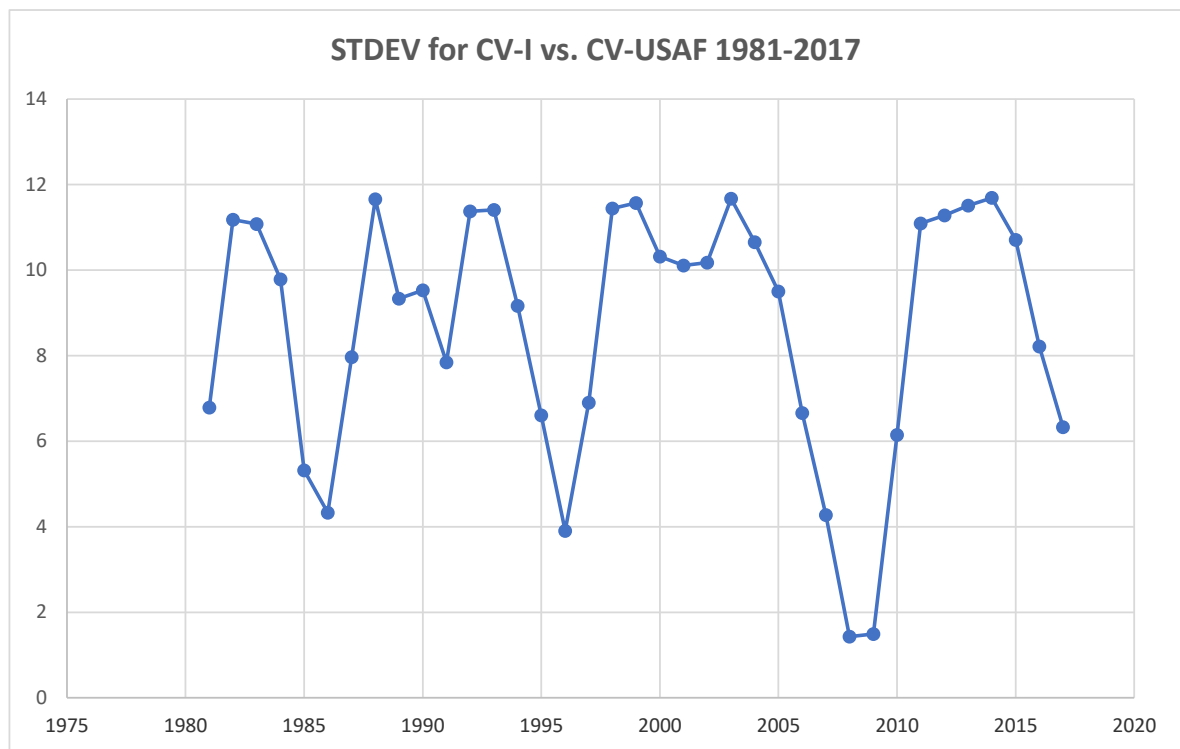
At a time where not much is happening on the visible solar surface, it is a good choice to see what is going on with coronal holes.

The above image from 7 March shows an image taken from NASA's Solar Dynamics Observatory that is monitoring the structure of the sun, showing a coronal hole which stretches more than 700,000 km from the sun's north pole to its equator.

<http://www.spaceweather.com/archive.php?view=1&day=01&month=03&year=2018>

**[Please check out www.cv-helios.net/cvrep2.html for updates of files!](http://www.cv-helios.net/cvrep2.html)**

**MINIMUM Cycle 24/25** is expected to occur at the very end of 2019/start 2020.  
Predicted extreme early April/May 2019, but most likely min. is March 2020.



### Want Solar Coordinates?

Daily list of Solar Ephemeris for 2018 available at:

<http://www.cv-helios.net/helio2018/>

Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec. for the year 2017.

Comes with tilted Stoneyhurst-chart to use for observations!

For your convenience and security, use the mif2002,

<http://www.cv-helios.net/mif2002.xls>

the Monthly Input Form, which you can use for all of your next reportings!

Note! A new .php script is going to be launched this year,

instead of the old, outdated and unsecure .cgi that has been used for about 17 years.

### CV-Helios Network: Monitor MPR progress as entries are made!

In order for the observers to monitor that their submissions

have been registered at CV-Helios Network, a new feature has been made in March 2014:

Just enter the following link in your internet browser and you will see a page containing today's date and a further link into an excel sheet that is created automatically for every Entry made to the CV-Helios Network database and also one copy for every day of the year.

The preliminary MPR visible will remain visible for the entire calendar month.

The data are available fresh from about 10:00 UTC until local midnight.

Another feature made gives you daily information for the last 6 rotations for:

Date, USAF-CV, USAF-CV6rot, FluxAdj, FluxAdj6rot, FluxObs, FluxObs6rot, SunspotArea,

SunspotArea6rot, PIndex6rot, Lat. N/S hem.6rot, SolarWind, SolarWind6rot.

Use this link to see also this feature.

<http://cv-helios.net/helios/cv/web/mprpost.html>

<http://www.cv-helios.net/cgi/data/datlist.txt>

Daily Report issued 10:00 UTC

for checking of Entries Summary

