

Monthly Preliminary Report

MPR



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CV-Helios Network

Monthly Preliminary Report for April 2020

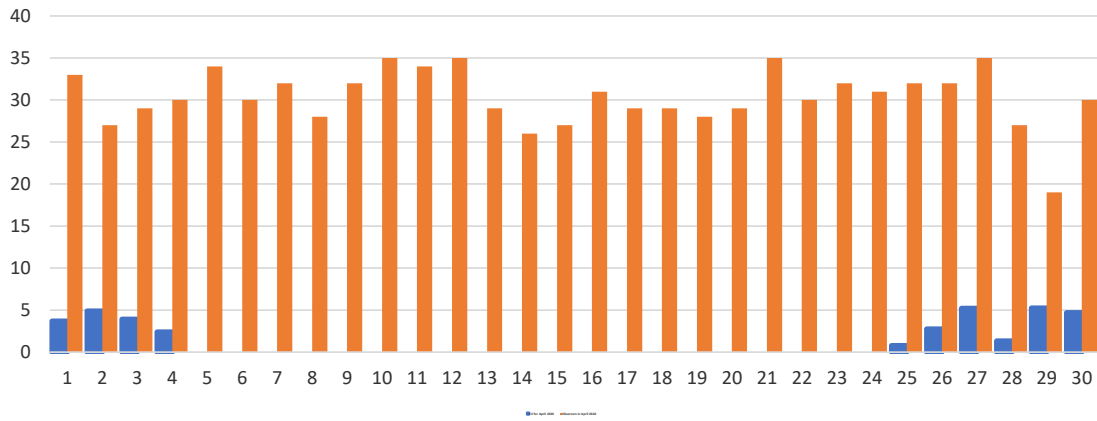
Solar Cycle 24: Month no. 138 Solar Cycle 25: Month no. 5 ?

Report id.: cv2004 - CV-report no.: 465

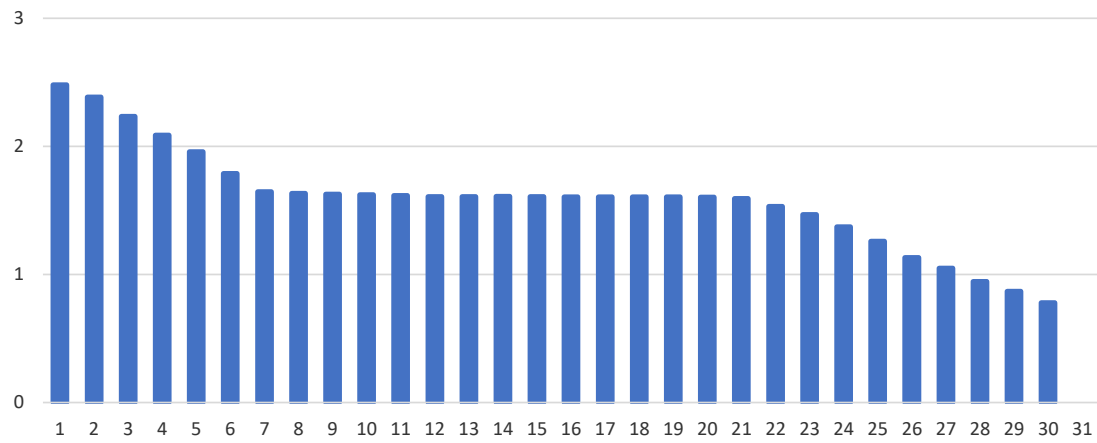
Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	1,0	25	0,909	8462
CV-009	BRAUCKHOFF, DIETER	GERMANY	3,6	29	3,104	1266
CV-010	DUBOIS, FRANKY	BELGIUM	1,0	30	0,845	8671
CV-019	JUNKER, ELMAR	GERMANY	1,1	24	0,947	3436
CV-020	HOLL, MANFRED	GERMANY	2,0	1	1,748	5366
CV-021	BARNES, HOWARD	NEW ZEALAND	1,4	14	1,248	4343
CV-022	VIERTEL, ANDREAS	GERMANY	0,3	28	0,250	5620
CV-023	BRETSCHNEIDER, HAR	GERMANY	0,8	29	0,693	5047
CV-038	MORALES, GERMAN	BOLIVIA	3,7	28	3,215	7127
CV-041	ROTHERMEL, JENS	GERMANY	1,0	26	0,908	1116
CV-044	SCHRÖDER, GERD	GERMANY	0,3	29	0,271	4363
CV-068	THIMM, SVEN OVE	DENMARK	0,1	15	0,058	3627
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	0,8	27	0,712	3008
CV-080	JANSSENS, JAN	BELGIUM	1,1	13	0,941	1044
CV-082	URBANSKI, PIOTR	POLAND	0,8	29	0,723	4730
CV-086	TOS-POLAND	POLAND	1,1	30	0,961	7448
CV-091	DALEK, GRZEGORZ	POLAND	0,9	27	0,809	4107
CV-103	STEEN, OCTAAF	BELGIUM	0,9	30	0,787	5293
CV-105	RYBACK, ALEXEY	RUSSIA	1,2	9	1,068	2941
CV-107	LEVENTHAL, MONTY	AUSTRALIA	0,1	17	0,103	4256
CV-116	BJERKGÅRD, TERJE	NORWAY	0,3	6	0,291	897
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	1,4	29	1,266	2518
CV-135	ARAUJO, GEMA	SPAIN	1,3	30	1,165	6280
CV-136	GARCIA, FAUSTINO	SPAIN	0,8	5	0,699	3276
CV-139	ALONSO, JAVIER	SPAIN	1,8	19	1,564	3413

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Results				*CV-USAF prepared via data from Joint USDC/NOAA, SWPC/USAF			
Date	CV	Obsvrs	Regions 6 rot.	* CV-USAF 6 rot.	CV-6 rot.	CV-13 rot.	
1	3,70	33	0,14	0,52	0,71	2,48	
2	4,89	27	0,15	0,55	0,76	2,38	
3	3,93	29	0,15	0,57	0,79	2,23	
4	2,40	30	0,16	0,58	0,81	2,09	
5	0,00	34	0,16	0,58	0,81	1,96	
6	0,00	30	0,16	0,58	0,81	1,79	
7	0,00	32	0,16	0,58	0,80	1,65	
8	0,00	28	0,16	0,58	0,80	1,63	
9	0,00	32	0,16	0,58	0,80	1,63	
10	0,00	35	0,16	0,58	0,80	1,62	
11	0,00	34	0,16	0,58	0,80	1,61	
12	0,00	35	0,16	0,58	0,79	1,61	
13	0,00	29	0,15	0,57	0,78	1,61	
14	0,00	26	0,15	0,56	0,78	1,61	
15	0,00	27	0,15	0,56	0,78	1,61	
16	0,00	31	0,15	0,56	0,77	1,61	
17	0,00	29	0,15	0,56	0,77	1,61	
18	0,00	29	0,15	0,56	0,77	1,60	
19	0,00	28	0,15	0,56	0,76	1,60	
20	0,00	29	0,15	0,56	0,76	1,60	
21	0,00	35	0,15	0,56	0,76	1,59	
22	0,00	30	0,15	0,56	0,75	1,53	
23	0,00	32	0,15	0,56	0,75	1,47	
24	0,00	31	0,15	0,56	0,75	1,37	
25	0,78	32	0,15	0,57	0,75	1,26	
26	2,75	32	0,16	0,58	0,77	1,13	
27	5,23	35	0,16	0,59	0,82	1,05	
28	1,33	27	0,16	0,59	0,83	0,94	
29	5,26	19	0,18	0,63	0,86	0,87	
30	4,70	30	0,18	0,64	0,90	0,78	
Totals/ Avrgs	1,17	30,3	0,40	0,71	0,79	1,58	

CV and CV observers



CV-13 rot. per April 2020

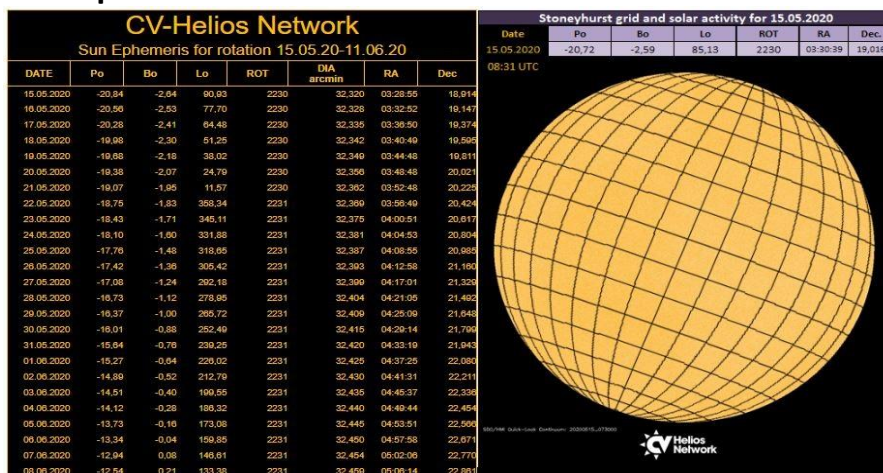


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Solar Region Summary for April 2020			
<u>Reg.-First day-Last day-Lat.-Lon.-Rot.-Area-Lgth.-CVtot.-class14d</u>			
2759-31.03.20-04.04.20-N28-261-2229-10-2-2,8-AXX-HRX-HRX-HRX-AXX			
2760-24.04.20-26.04.20-S07-305-2229-10-1-3,7-AXX-CRO-CRO			
2762-29.04.20-30.04.20-N24-336-2230-10-2-1,5-BXO-AXX			
2763-30.04.20-30.04.20-N32-260-2230-10-2-2,0-BXO			

:Product: Weekly Highlights and Forecasts			
:Issued: 2020 May 11 0302 UTC			
# Prepared by the US Dept. of Commerce, NOAA, Space Weather Prediction Center			
# Product description and SWPC contact on the Web			
# https://www.swpc.noaa.gov/content/subscription-services			
#			
# Weekly Highlights and Forecasts			
#			
Highlights of Solar and Geomagnetic Activity			
04 - 10 May 2020			
Solar activity was very low. Regions 2760 (S06, L=306, class/area Cro/020 on 29 Apr) and 2763 (N32, L=260, class/area Bxo/010 on 30 Apr) were both plage regions as they rotated off the west limb on 05 May and 08 May, respectively. No Earth-directed CMEs were observed.			
No proton events were observed at geosynchronous orbit.			
The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels. The peak flux was 240 pfu observed at 09/0420 UTC.			
Geomagnetic field activity was mostly quiet with isolated unsettled periods observed on 06 and 10 May. Solar wind parameters were at nominal levels with solar wind speed ranging from 285-360 km/s. Total field ranged from 1-8 nT while the Bz component was between +6/-7 nT.			

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CV-I vs R-I graph		Solar minimum has occurred?																																																																	
Min. period 01 Oct 2019 - 30 Nov 2019, 13-rot. centered averages Solar Flux adj.																																																																			
<table border="1"> <caption>Approximate data from the Solar Flux chart</caption> <thead> <tr> <th>Date</th> <th>Solar Flux (approx.)</th> </tr> </thead> <tbody> <tr><td>01.10.2019</td><td>69.31</td></tr> <tr><td>03.10.2019</td><td>69.30</td></tr> <tr><td>05.10.2019</td><td>69.29</td></tr> <tr><td>07.10.2019</td><td>69.31</td></tr> <tr><td>09.10.2019</td><td>69.32</td></tr> <tr><td>11.10.2019</td><td>69.33</td></tr> <tr><td>13.10.2019</td><td>69.34</td></tr> <tr><td>15.10.2019</td><td>69.33</td></tr> <tr><td>17.10.2019</td><td>69.28</td></tr> <tr><td>19.10.2019</td><td>69.22</td></tr> <tr><td>21.10.2019</td><td>69.16</td></tr> <tr><td>23.10.2019</td><td>69.11</td></tr> <tr><td>25.10.2019</td><td>69.09</td></tr> <tr><td>27.10.2019</td><td>69.07</td></tr> <tr><td>29.10.2019</td><td>69.05</td></tr> <tr><td>31.10.2019</td><td>69.05</td></tr> <tr><td>02.11.2019</td><td>69.06</td></tr> <tr><td>04.11.2019</td><td>69.07</td></tr> <tr><td>06.11.2019</td><td>69.06</td></tr> <tr><td>08.11.2019</td><td>69.06</td></tr> <tr><td>10.11.2019</td><td>69.06</td></tr> <tr><td>12.11.2019</td><td>69.05</td></tr> <tr><td>14.11.2019</td><td>69.04</td></tr> <tr><td>16.11.2019</td><td>69.03</td></tr> <tr><td>18.11.2019</td><td>69.03</td></tr> <tr><td>20.11.2019</td><td>69.03</td></tr> <tr><td>22.11.2019</td><td>69.02</td></tr> <tr><td>24.11.2019</td><td>69.02</td></tr> <tr><td>26.11.2019</td><td>69.03</td></tr> <tr><td>28.11.2019</td><td>69.04</td></tr> <tr><td>30.11.2019</td><td>69.04</td></tr> </tbody> </table>				Date	Solar Flux (approx.)	01.10.2019	69.31	03.10.2019	69.30	05.10.2019	69.29	07.10.2019	69.31	09.10.2019	69.32	11.10.2019	69.33	13.10.2019	69.34	15.10.2019	69.33	17.10.2019	69.28	19.10.2019	69.22	21.10.2019	69.16	23.10.2019	69.11	25.10.2019	69.09	27.10.2019	69.07	29.10.2019	69.05	31.10.2019	69.05	02.11.2019	69.06	04.11.2019	69.07	06.11.2019	69.06	08.11.2019	69.06	10.11.2019	69.06	12.11.2019	69.05	14.11.2019	69.04	16.11.2019	69.03	18.11.2019	69.03	20.11.2019	69.03	22.11.2019	69.02	24.11.2019	69.02	26.11.2019	69.03	28.11.2019	69.04	30.11.2019	69.04
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Solar minimum: Has it occurred last year? The above graphic show the 13-rot. average+13 rot. centered averages for 10,7 cm solar flux 2800 MHz. It may seem minimum occurred late November 2019. CV-I may indicate approx. same datevalues for a minimum. Updates will come.																																																																			
Awards this month CV-077 JOHNSTON, ANDREW: 3000 CV-obs. on 21.04.2020			1																																																																
Congratulations!																																																																			
<u>New member:</u> CV-215 ARNAUD MENGUS - France		Welcome to: Enrolled 22.04.2020 We are now 48 active members (last 12 mo.)																																																																	
Please check out www.cv-helios.net/cvrep2.html for updates of files!																																																																			
MINIMUM Cycle 24/25 was expected to occur between November 2019/May 2020. Latest: MINIMUM MAY HAVE OCCURRED END OCT. 2019.																																																																			

April 2020 news



Click on picture to open the site.

or go to:

<http://www.cv-helios.net/helios/cv/web/sungrid/sungrid.html> and check out.

The page also gives you a link to the year table.

A new feature at CV-Helios Network has been tried out and published on web as a help for those of you in need for heliographic data, the nearest 28-day table over Po, Bo and Lo with Carrington Rotation number, Sundiameter in arc minutes and also the RA and Dec.

This, together with the updated SOHO-image with the correct grid as an overlay, is published every day before 9 am UTC and is sometimes updated during daytime.

Solar Coordinates

Daily list of Solar Ephemeris for 2020 available at:

[Daily list of Solar Ephemeris for 2020](#)

Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec. for the year 2020.

NEW FORMAT

Calculating CV

For your convenience and security, use the mif2002,

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

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

Monitor MPR daily progress

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

Monitor your submissions as they are registered:

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

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

Content comprises CV-Report for latest month, CV-Report for latest month

individual results, Extracts from NOAA on forecasts/discussion,

Extracts from NOAA warehouse on SRS and other activity,

Last 24 months CV-data, This month CV acc. to USAF

Registration data

Check if your CV-observations have been registered:

<https://www.cv-helios.net/cgi/data/datlist.txt> for checking of Entries Summary

CONTRIBUTE WITH YOUR PHOTOS AND OTHER OF INTEREST!

We would like YOU to contribute with drawings or photos from last month

Also any other contribution that may have an interest for our observers.

Please send by email to:

cvhelios@gmail.com

SUBMISSIONS OF CV-OBSERVATIONS

Please go to: <https://www.cv-helios.net/observations/index.html>

Log on to:

<https://www.cv-helios.net/observations/index.html>

login

solaris

password

cvheliosobs

Submission before 15th of proceeding month 18:00 UTC.

MPR issue 15th of month 2000 UTC. Good luck CV-observing!



Per April 2020: Registration time average last 40 entries: 10 hours 1 minutes

CV-Helios Network

- over 38 years in solar amateur astronomy service!

There are now 11516 entries registered
containing 183782 CV-observations!

This MPR issued 15th May 2020



CV-Helios Network

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<https://www.cv-helios.net>

Worldwide Amateur Solar Observing Network
Magnetic Sunspot Classifications Zürich/McIntosh system
CV - Classification Values (Malde/1981) - numeric system
Serving Amateur Solar Astronomy since 1981

Editorial close: 15.05.2020 19:02 UTC