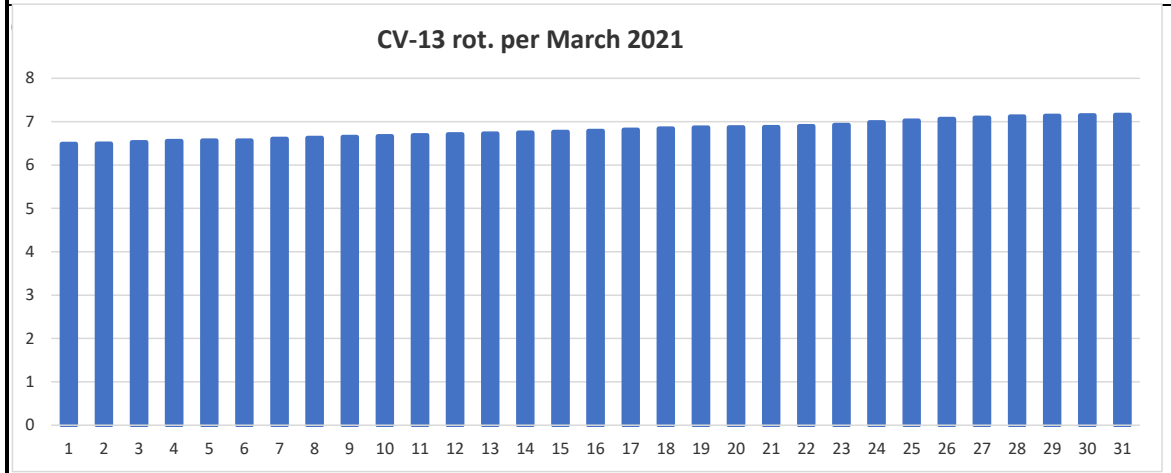
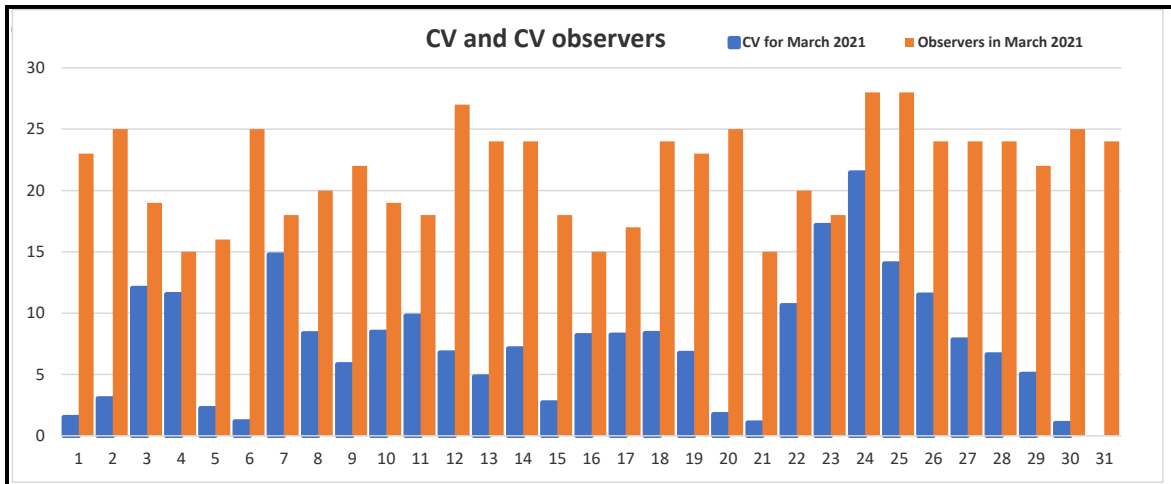


Results						
Date	CV	Obsrvrs	Regions 6 rot.	CV-USAF 6-rot.	CV-6 rot.	CV-13 rot.
1	1,52	23	1,37	13,41	14,52	6,49
2	3,04	25	1,38	13,44	14,58	6,49
3	12,05	19	1,39	13,50	14,73	6,52
4	11,53	15	1,40	13,54	14,87	6,55
5	2,25	16	1,41	13,55	14,95	6,56
6	1,16	25	1,41	13,55	14,96	6,57
7	14,78	18	1,42	13,57	15,10	6,60
8	8,35	20	1,42	13,59	15,17	6,63
9	5,82	22	1,43	13,66	15,21	6,64
10	8,47	19	1,44	13,73	15,25	6,66
11	9,78	18	1,45	13,80	15,30	6,68
12	6,78	27	1,46	13,85	15,36	6,70
13	4,83	24	1,46	13,89	15,42	6,72
14	7,13	24	1,48	13,96	15,51	6,75
15	2,72	18	1,49	13,98	15,51	6,76
16	8,20	15	1,50	14,01	15,59	6,78
17	8,24	17	1,51	14,05	15,72	6,81
18	8,38	24	1,51	14,10	15,78	6,84
19	6,74	23	1,52	14,12	15,82	6,86
20	1,76	25	1,52	14,13	15,83	6,87
21	1,07	15	1,53	14,14	15,86	6,87
22	10,65	20	1,52	14,13	15,91	6,89
23	17,17	18	1,52	14,21	16,02	6,92
24	21,46	28	1,52	14,26	16,19	6,98
25	14,04	28	1,53	14,32	16,30	7,02
26	11,50	24	1,54	14,38	16,36	7,06
27	7,83	24	1,54	14,41	16,37	7,09
28	6,63	24	1,54	14,41	16,35	7,12
29	5,05	22	1,54	14,37	16,33	7,13
30	1,04	25	1,54	14,32	16,25	7,14
31	0,00	24	1,54	14,24	16,15	7,15
Totals/ Avrgs	3,96	27,3	0,97	4,83	15,59	6,80



Sunspot Region Summary for March 2021
Reg-First day-Last day-Lat.-Lon.-Rot.-CVavrg.-ZMcl day1 to day14
 2806,02.03.21,07.03.21,-31,197,2241-BXO,CRO,BXO,AXX,BXO,CRO,,,,,,,,
 2807,02.03.21,07.03.21,-18,154,2241-BXO,CRO,CRO,BXO,AXX,BXO,,,,,,,,
 2808,09.03.21,16.03.21,19,035,2241-HSX,HSX,HSX,CAO,HAX,AXX,AXX,AXX,,,,,
 2809,11.03.21,13.03.21,-22,065,2241-BXO,CSO,BXO,,,,,,,,,
 2810,16.03.21,20.03.21,18,307,2241-HRX,HAX,HAX,HRX,AXX,,,,,,,,,
 2811,21.03.21,26.03.21,20,247,2242-BXO,BXO,CAO,BXO,BXO,BXO,,,,,,,,,
 2812,23.03.21,29.03.21,21,225,2242-HSX,HSX,HSX,HAX,HAX,HRX,BXO,,,,,,,,

:Product: Weekly Highlights and Forecasts

:Issued: 2021 Apr 12 0114 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
 05 - 11 April 2021

 Solar activity was very low throughout the period with only B-class flare activity observed. No Earth-directed CMEs were observed in available imagery.

 No proton events were observed at geosynchronous orbit.

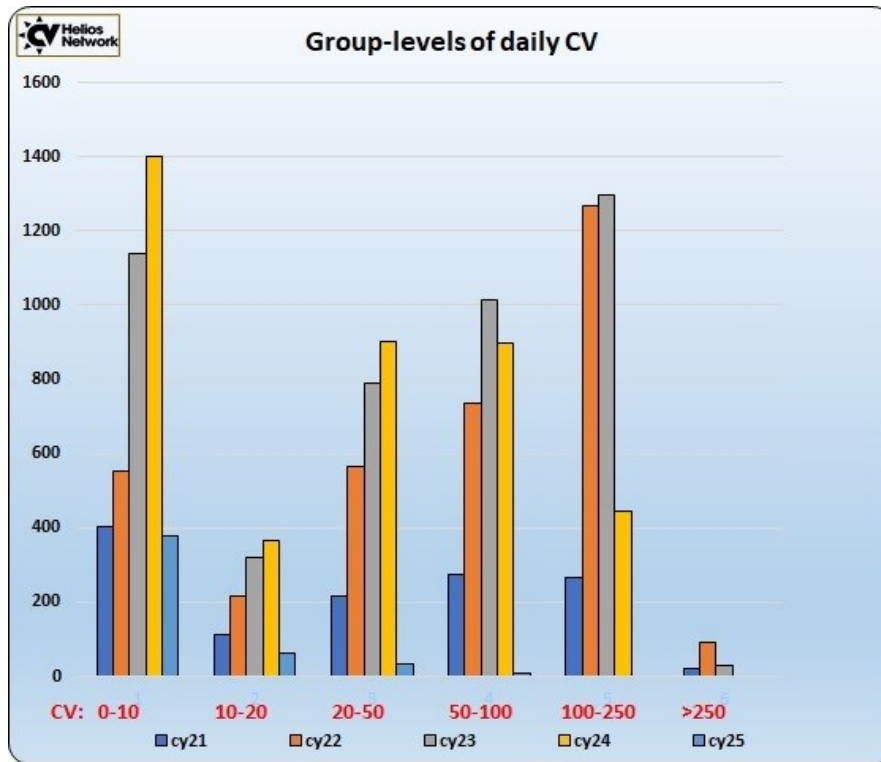
 The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels during the period.

 Geomagnetic field activity was at quiet levels on 05-06 April and 08-11 April. Unsettled to G1 (Minor) storm conditions were observed on 07 April due to positive polarity CH HSS effects.

 Forecast of Solar and Geomagnetic Activity
 12 April - 08 May 2021

 Solar activity is expected to be at very low levels during the

Monthly graph



News March 2021

Solar activity is still nearly at standstill in this phase of the new solar cycle 25.

During March 2021 we saw 7 active sunspot regions and mostly were quite small and not very noteworthy.

At last we see some activity in the northern hemisphere, and in fact, 4 regions were at North, and 3 regions in the south.

The most active region was AR 2810 at N18 307 rot. 2242 that reached 200 mvh on 18th March. All three regions reached class H or C during their surface appearance.

The highest CV-activity was on the 24th.

The expected rise in activity goes slowly but marginally better than solar cycle 24 at the same time.

It is also expected that activity will come to fairly high levels around the first onset of this solar cycle, and that might commence at the end of this year.

Introducing MIF2021

Attached please find a link to the recently developed MIF version 2021.

The address of the file is <http://www.cv-helios.net/mif2021.xlsx>

The MIF2021 is password protected for CV-Helios Network users and to prevent spam to enter into the dat-files from non-members.

The file is password protected. See your email containing this issue.

If you choose to download the file to your computer, then you may preferably want to save the file without a password.

The intention of the MIF2021 is to try and make it easier for CV-observers to be able to convert Zürich/McIntosh-classifications into CV and that is summed up for each day.

New in this file is you can enter CV-number/name, Month, Year, Observing method.

In addition you must select Time Zone and Daylight Saving Time. In this manner you can enter your local time, while the UTC time will show on your data.

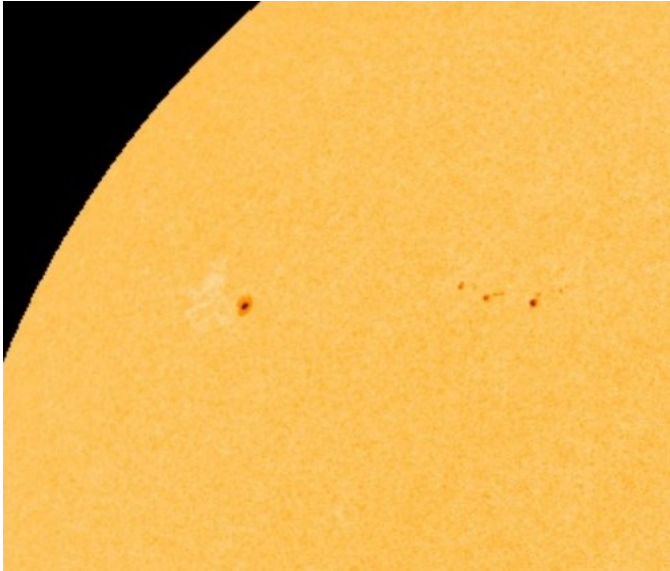
Your email address and telescopic data must be filled out manually.

See help-file.

When submission is done, you may choose to print the form which has been setup as black and white print. All yellow fields are unprotected, so that data can be deleted and ready for next submission.

Please note that if you already have a good system that works well for you, you are NOT obliged to use MIF2021!

We wish you all lots of sunny days, happy observing and good luck in trying out the new MIF2021!

Pictures from last month - Observer contributions, etc.	
SOLAR CYCLE 25	Largest Regions of March 2021
	<p>est Regions of March 2021</p> <p>Regions 2811-2812 on 24 Mar 2021 1200 UTC courtesy SDO/HMI NOAA gov</p>
Awards this month	0
none	
New member:	Welcome to:
none	none
	We are now 53 active members (last 12 mo.)

Solar Coordinates

New from April 2020

Daily list of Solar Ephemeris available at:

[Daily list of Solar Ephemeris and SDO on grid](#)

Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec. and adjusted SOHO-picture on grid.

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

NEW! A special **Graphic section** is underway soon available from front page of www.cv-helios.net

Registration data

Check if your CV-observations have been registered (please allow up to 24 hrs):

<https://www.cv-helios.net/helios/cv/web/datlist.htm>

for checking of Entries Summary

<https://www.cv-helios.net/helios/cv/web/cvobsmonth.htm>**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[Please check out www.cv-helios.net/cvrep2.html](http://www.cv-helios.net/cvrep2.html) for updates of files!**SUBMISSIONS OF CV-OBSERVATIONS**

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 proceeding month 2000 UTC. Good luck CV-observing!

#I/T

CV-Helios Network

- over 39 years in solar amateur astronomy service!

There are now 11849 entries registered
containing 190557 CV-observations!

Editorial close: 15.04.2021 19:09 UTC

CV-Helios Network