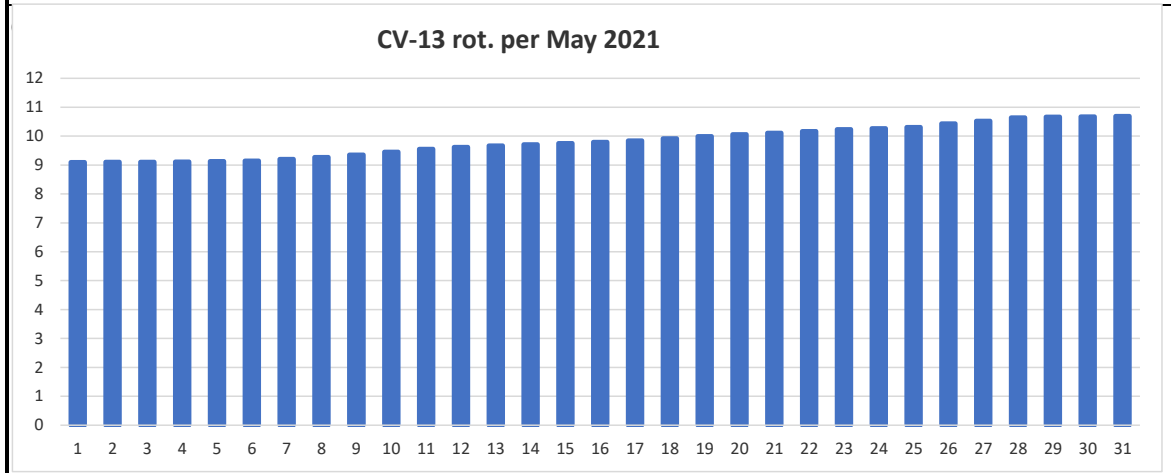
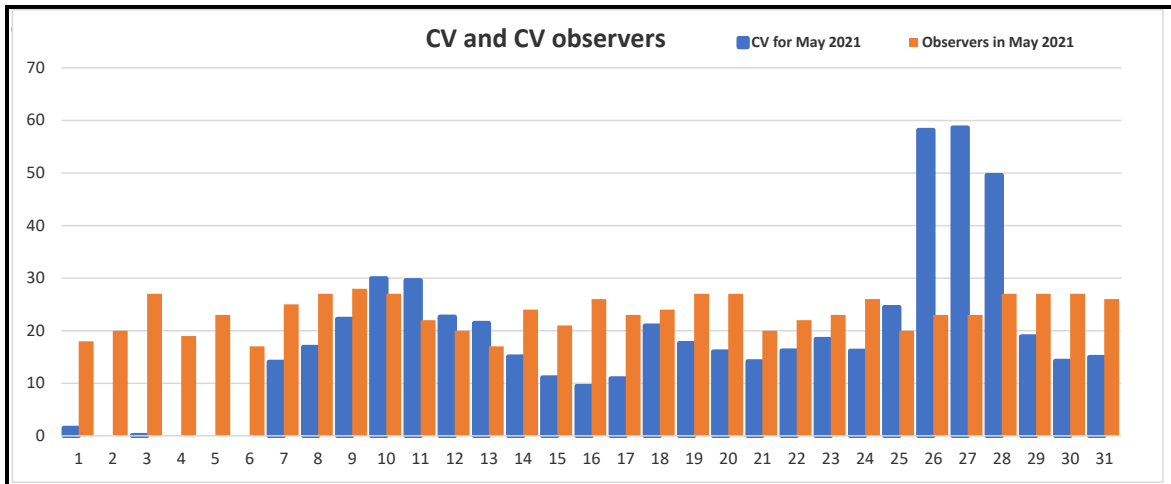




<b>Results</b>						
Date	CV	Obsrvrs	Regions 6 rot.	CV-USAF 6-rot.	CV-6 rot.	CV-13 rot.
1	1,50	18	1,60	12,73	16,08	9,10
2	0,00	20	1,60	12,66	16,00	9,11
3	0,15	27	1,60	12,60	15,88	9,11
4	0,00	19	1,59	12,51	15,73	9,12
5	0,00	23	1,58	12,38	15,57	9,13
6	0,00	17	1,57	12,10	15,19	9,15
7	14,04	25	1,55	11,80	14,75	9,20
8	16,89	27	1,54	11,52	14,42	9,27
9	22,21	28	1,53	11,29	14,18	9,36
10	29,93	27	1,52	11,04	13,93	9,46
11	29,59	22	1,51	10,71	13,65	9,56
12	22,65	20	1,48	10,44	13,45	9,62
13	21,47	17	1,47	10,27	13,20	9,67
14	15,04	24	1,48	10,02	13,01	9,72
15	11,10	21	1,47	9,74	12,88	9,76
16	9,46	26	1,46	9,45	12,73	9,80
17	10,91	23	1,45	9,18	12,57	9,85
18	20,96	24	1,44	8,98	12,51	9,92
19	17,63	27	1,44	9,02	12,55	10,00
20	16,00	27	1,43	9,02	12,58	10,06
21	14,15	20	1,43	9,02	12,60	10,11
22	16,18	22	1,43	9,03	12,63	10,17
23	18,39	23	1,44	9,05	12,68	10,24
24	16,15	26	1,45	9,07	12,71	10,27
25	24,45	20	1,45	9,13	12,80	10,31
26	58,17	23	1,45	9,32	13,16	10,44
27	58,61	23	1,45	9,87	13,56	10,53
28	49,59	27	1,45	10,38	13,88	10,64
29	18,89	27	1,46	10,41	13,95	10,66
30	14,22	27	1,46	10,44	13,99	10,68
31	14,96	26	1,48	10,50	14,09	10,69
Totals/ Avrgs	<b>3,96</b>	<b>27,3</b>	<b>0,97</b>	<b>4,83</b>	<b>13,77</b>	<b>9,83</b>



**Sunspot Region Summary for May 2021**

**Reg.-First day-Last day-Lat.-Lon.-Rot.-CVavg.-ZMcl day1 to day14**

- 2818,22.04.21,01.05.21,-16,205,2243-HSX,HSX,HSX,HSX,HSX,HSX,HSX,HSX,HSX,AXX,,,
- 2822,07.05.21,20.05.21,18,335,2243-CSO,CSI,DSI,DAO,DAO,DAO,DAO,CAO,CAO,CAO,HSX,HSX,HSX,HSX
- 2823,10.05.21,16.05.21,-22,327,2243-CAO,CSO,CSO,HRX,AXX,AXX,AXX,,,,,
- 2824,18.05.21,29.05.21,19,195,2244-CAO,HSX,HSX,HSX,CSI,CSI,CSI,CSO,CSO,DHO,DHO,CAO,,
- 2825,23.05.21,24.05.21,17,142,2244-AXX,AXX,,,,,,,
- 2826,25.05.21,28.05.21,24,215,2244-CRI,DAI,DKO,DKO,,,,,,,
- 2827,29.05.21,07.06.21,12,076,2244-BXO,CRO,CAI,CSI,CSI,CSO,DSO,HSX,HSX,HSX,,,
- 2828,30.05.21,31.05.21,-32,069,2244-AXX,AXX,,,,,,,

**:Product: Weekly Highlights and Forecasts**

:Issued: 2021 Jun 14 0205 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  
 07 - 13 June 2021

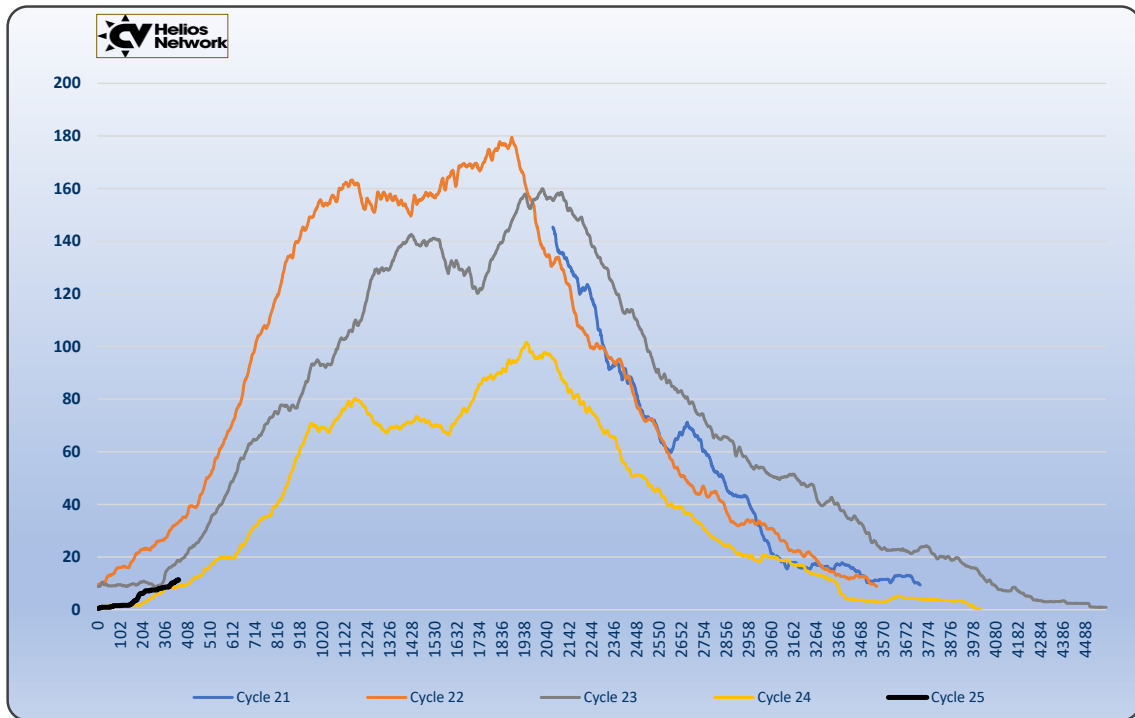
Solar activity was at low levels due to multiple C-class flares from an unnumbered region beyond the east limb. The largest C-class flare was a C3.7 at 09/0907 UTC from Region 2831 (N24, L=79, class/area Hrx/10 on 07 June). No Earth-directed CMEs were observed in coronagraph imagery. However, on 11-13 June coronagraph imagery was not available due to site maintenance at NASA. Availability of LASCO coronagraph imagery expected to resume on 15 June.

No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity was at quiet to unsettled levels on 08-11, and 13 June. Unsettled to active levels were reached on 07 June due to influences from the arrival of a recurrent coronal hole

## Monthly graph



Note the black line showing we are actually above cycle 24 levels for same date post-MIN.!

## News May 2021

Solar activity is still nearly at standstill in this phase of the new solar cycle 25.  
In fact, CV-13 rot. averages are now on the same level as late Nov 2019!

There are three regions only worthwhile mentioning:

Reg.-Lat. Long. (Rot.): Date-ZMcI-cls.,CV-USAF.comment

2822-N18 335 (2243): 09.05.2021-DSI, CV-USAF=28, 10-13.05. was DAO

Quite an interesting group but seemed stable.

2824-N19 195 (2244): 27.05.2021-DHO, CV-USAF=49, same 28.05.

This was apparently looking a quiet group but a massive flare producer,

2826-N24 215 (2244): 26.05.2021-DAI, CV-USAF=22, 27.-28-05 DKO CV-USAF=43

This group evolved rapidly from nothing to a group looking like an invert "C"  
and had the magnetic poles turned about 90 degrees.

None of the two potent groups seemed to return in June.

The solar flux show a slight downfall at the time of writing, but hope for better times soon.

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.

Error:

On previous MPRs this cycle the wrong Month number of Solar Cycle 25 was quoted:

We were, in previous month at Month number 18, which has now been corrected.

MIF2021

We hope the MIF2021 that was introduced to you last month  
have brought some of you some joy to use.

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

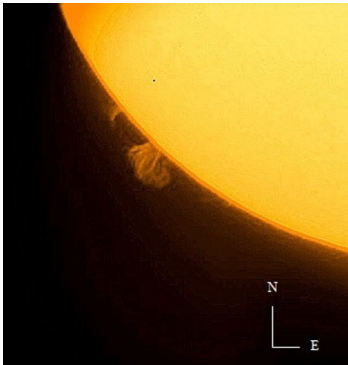
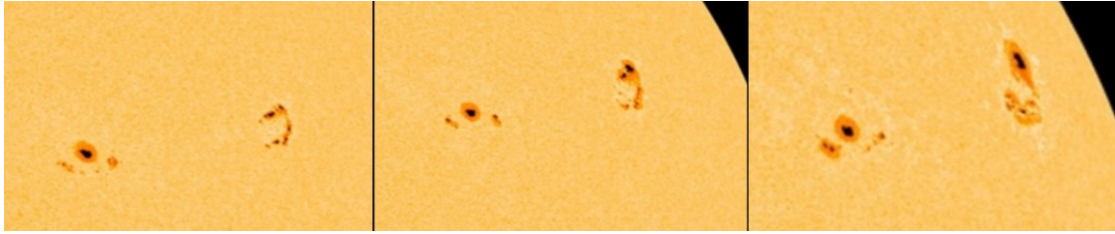
We wish you all lots of sunny days, happy observing and good luck in trying out the new MIF2021!

Please remember you are always welcome to contribute with drawings and photos!

**Pictures from last month - Observer contributions, etc.**

**SOLAR CYCLE 25**

**Largest Regions of May 2021**



Monty Leventhal OAM. Digital filtergram. Date: 11-6-21  
 Time: 22.45 UT. Telescope: Meade SC 10". Filter:  
 Daystar H-alpha Combo Quark.  
 Supported by the Donovan Astronomical Trust, Testar  
 Aust. Pty. Ltd. & the Ridley Grant of the B.A.A.

**Regions 2824 and 2826  
 on 25-26-27 May 2021  
 courtesy SDO/HMI NOAA gov**

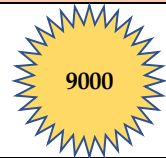
To the left a picture  
 from CV-107 Monty Leventhal  
 taken i June 2021.

**Awards this month**

1

**Congratulations to CV-010 FRANKY DUBOIS with Milestone 9000 CV-observations!**  
 Milestone date 21 May 2021

Congratulations!




**New member:**

**Welcome to:**

none

none

We are now 52 active members (last 12 mo.)

<b>Solar Coordinates</b>	New from April 2020
Daily list of Solar Ephemeris available at: <a href="#">Daily list of Solar Ephemeris and SDO on grid</a> Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec. and adjusted SOHO-picture on grid.	
<b>Calculating CV</b>	
For your convenience and security, use the mif2021, <a href="https://www.cv-helios.net/mif2021.xlsx">https://www.cv-helios.net/mif2021.xlsx</a> the Monthly Input Form, which you can use for all of your next reportings!	
<b>Monitor MPR daily progress</b>	
<b>CV-Helios Network: Monitor MPR progress as entries are made!</b> Monitor your submissions as they are registered: <a href="https://cv-helios.net/helios/cv/web/mprpost.html">https://cv-helios.net/helios/cv/web/mprpost.html</a> 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	
<b>Registration data</b>	
Check if your CV-observations have been registered (please allow up to 24 hrs): <a href="https://www.cv-helios.net/helios/cv/web/datlist.htm">https://www.cv-helios.net/helios/cv/web/datlist.htm</a> for checking of Entries Summary <a href="https://www.cv-helios.net/helios/cv/web/cvobsmonth.htm">https://www.cv-helios.net/helios/cv/web/cvobsmonth.htm</a>	
<b>CONTRIBUTE WITH YOUR PHOTOS AND OTHER OF INTEREST!</b>	
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: <a href="mailto:cvhelios@gmail.com">cvhelios@gmail.com</a>	
<a href="http://www.cv-helios.net/cvrep2.html">Please check out www.cv-helios.net/cvrep2.html</a> for updates of files!	
<b><u>SUBMISSIONS OF CV-OBSERVATIONS</u></b>	
Log on to: <a href="https://www.cv-helios.net/observations/index.html">https://www.cv-helios.net/observations/index.html</a> 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!	
<b>Average Registration time over last 40 entries: 14 hours 27 minutes</b>	
<b>CV-Helios Network</b> - over 39 years in solar amateur astronomy service!  There are now 12030 entries registered containing 193598 CV-observations!	
<b>Editorial close: 15.06.2021 17:49 UTC</b>	
 <b>CV-Helios Network</b>	