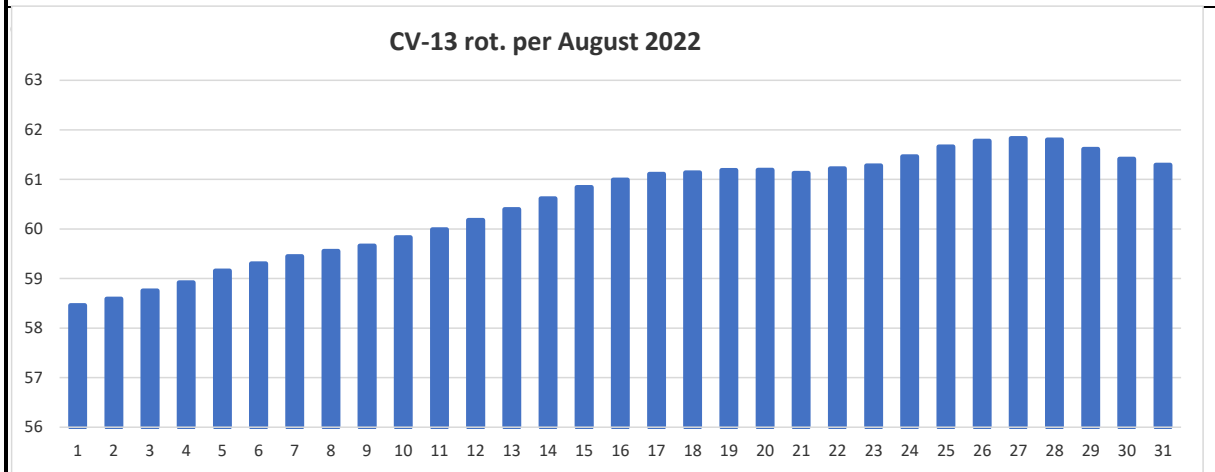
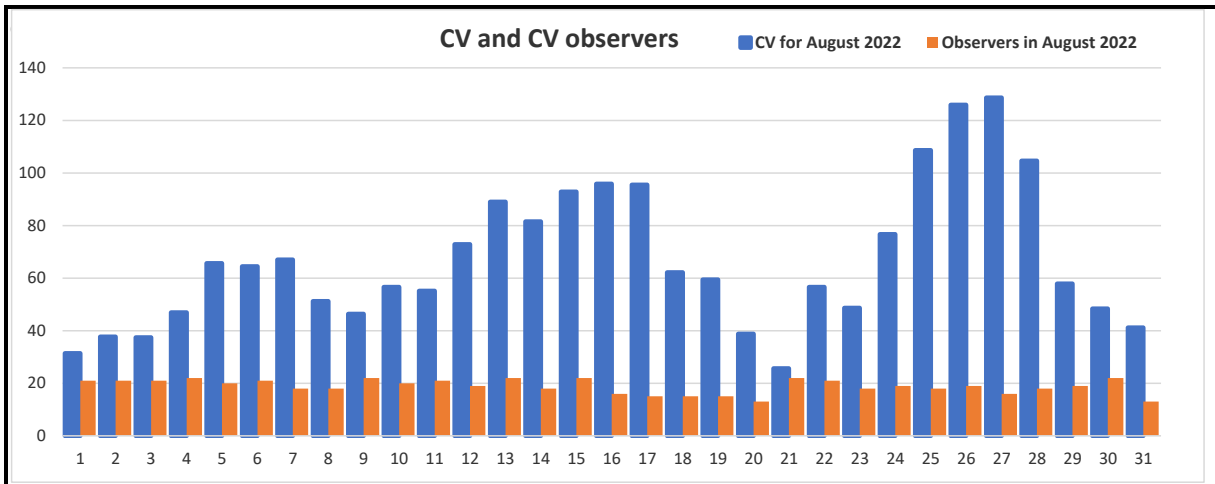




<b>Results</b>						
Date	CV	Obsrvrs	Regions 6 rot.	CV-USAF 6-rot.	CV-6 rot.	CV-13 rot.
1	31,38	21	4,87	80,79	73,67	58,46
2	37,67	21	4,85	80,88	73,86	58,59
3	37,38	21	4,84	80,95	73,82	58,75
4	46,95	22	4,83	81,03	73,86	58,92
5	65,60	20	4,84	81,10	74,04	59,16
6	64,43	21	4,85	81,34	74,27	59,30
7	67,00	18	4,88	81,59	74,51	59,45
8	51,22	18	4,90	81,77	74,76	59,55
9	46,36	22	4,92	81,91	74,95	59,66
10	56,55	20	4,93	82,08	75,32	59,83
11	55,14	21	4,93	82,22	75,53	59,99
12	72,89	19	4,94	82,52	75,66	60,18
13	89,00	22	4,96	82,77	75,88	60,40
14	81,56	18	4,95	82,70	75,97	60,62
15	92,86	22	4,95	82,70	76,05	60,84
16	95,88	16	4,96	82,56	76,13	60,99
17	95,53	15	4,96	82,93	76,22	61,11
18	62,20	15	4,96	82,78	76,12	61,14
19	59,40	15	4,96	82,59	76,01	61,18
20	38,77	13	4,95	82,13	75,65	61,19
21	25,68	22	4,93	81,42	75,00	61,13
22	56,62	21	4,92	80,96	74,68	61,22
23	48,67	18	4,91	80,45	74,32	61,28
24	76,68	19	4,90	80,37	74,28	61,46
25	108,67	18	4,91	80,70	74,46	61,66
26	125,89	19	4,91	81,26	74,84	61,78
27	128,63	16	4,93	81,88	75,24	61,83
28	104,67	18	4,94	82,27	75,59	61,80
29	57,84	19	4,96	83,04	75,75	61,61
30	48,41	22	4,96	83,35	76,02	61,41
31	41,15	13	4,95	83,48	76,27	61,29
Totals/ Avrgs	<b>3,96</b>	<b>27,3</b>	<b>0,97</b>	<b>4,83</b>	<b>75,12</b>	<b>60,51</b>



**Latest sunspot regions developments**

Reg.-First-Last-Lat.-Long.-Rot.-Area-Lgth.-CV-max.

- 3102-13.09.22-14.09.22--27,0-302,0-2262-240-6-15
- 3101-10.09.22-12.09.22-28,7-99,0-2260-53-8-16
- 3100-10.09.22-14.09.22--24,6-351,4-2262-98-9-14
- 3099-10.09.22-12.09.22-12,0-10,7-2260-10-3-3
- 3098-08.09.22-14.09.22-17,4-50,9-2260-247-10-27
- 3097-07.09.22-12.09.22--11,3-81,5-2260-13-4-9
- 3096-06.09.22-13.09.22-16,8-22,9-2260-53-5-14
- 3095-05.09.22-05.09.22--14,0-152,0-2260-20-4-5
- 3094-02.09.22-12.09.22-20,1-68,5-2260-56-3-9
- 3093-02.09.22-07.09.22--26,7-105,5-2260-17-4-3

**:Product: Weekly Highlights and Forecasts**

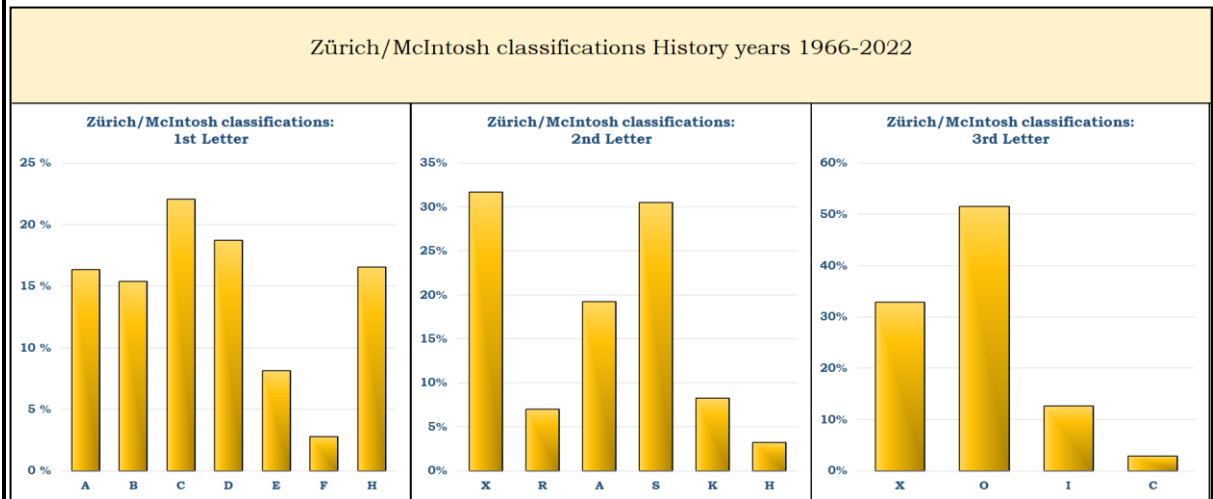
Highlights of Solar and Geomagnetic Activity  
05 - 11 September 2022

<http://services.swpc.noaa.gov/text/weekly.txt>

Solar activity was at low to moderate levels over the period. Moderate levels were observed on 05 Sep due to an M1 (R1-Minor) flare at 05/1805 UTC from Region 3089 (S22, L=194, class/area Ekc/580 on 29 Aug). Region 3089 produced a total of 69 C-class flares and 5 M-class flares during its transit on the visible disk between 25 Aug and 05 Sep. This region was responsible for the majority of the C-class flaring on the first two days of the period (05-06 Sep). Low levels were observed during the rest of the period with C-flare activity mostly from Regions 3096 (N16, L=023, class/area Dso/130 on 08 Sep), 3098 (N18, L=051, class/area Eai/160 on 11 Sep), and 3100 (S25, L=352, class/area Cai/080 on 11 Sep). Beginning on 11 Sep, Region 3098 grew moderately and developed a BG magnetic structure. No Earth-directed CMEs were observed.

Solar activity is expected to be at low levels, with a slight chance for M-flares (R1-R2, Minor-Moderate) on 12-17 Sep, due primarily to flare potential from Region 3098 and the return of old Region 3088 (S27, L=300). On 18 Sep - 01 Oct, solar activity is expected to increase to low levels, with a chance for M-flares, due to the return of old Region 3089. Very low to low levels are expected to return on 02-08 Oct.

Monthly graph



**The above is the result of going through the RGO/USAF-data that has been active since October 1966 until September 2022 and show the average distribution of Zürich/McIntosh classifications. The graphics show the most common and the more uncommon classifications registered.**

News August 2022

Solar activity has become more average and number of regions are slowly increasing.  
 The CV 13-rot. ctrd. avgs. are now higher than for solar cycle 24 at the same time of progress!  
 The CV-Int. 13-rot. avgs. is now ahead with 61 percent compared to same date in cycle 24!  
 Sunspot region production at Month 33 is still good. A total of 307 regions this cycle per mid Sep. 2022. (137 regions North and 170 regions South). At the same time solar cycle 24 produced 262 regions.

SUNSPOT REGIONS EXCEEDING 100 mvh in August 2022

Region,First date,Max.date,Last date,Lat.,Long.,Rot.,Max.mvh,Max class,Max CV  
 3068,28.07.22,05.08.22,07.08.22,-15,208,2260,210,DSO,25  
 3071,03.08.22,03.08.22,14.08.22,-18,127,2260,120,HSX,10  
 3074,05.08.22,08.08.22,16.08.22,-17,90,2260,150,HSX,10  
 3076,07.08.22,08.08.22,16.08.22,15,61,2260,180,HSX,10  
 3078,10.08.22,16.08.22,20.08.22,-24,32,2260,270,DAO,19  
 3079,12.08.22,15.08.22,17.08.22,-10,77,2260,140,CAO,8  
 3081,13.08.22,13.08.22,22.08.22,12,9,2260,240,DAI,22  
 3085,21.08.22,25.08.22,29.08.22,30,289,2260,280,DKO,43  
 3086,23.08.22,25.08.22,31.08.22,-23,238,2  
 3088,25.08.  
 3089,25.08.

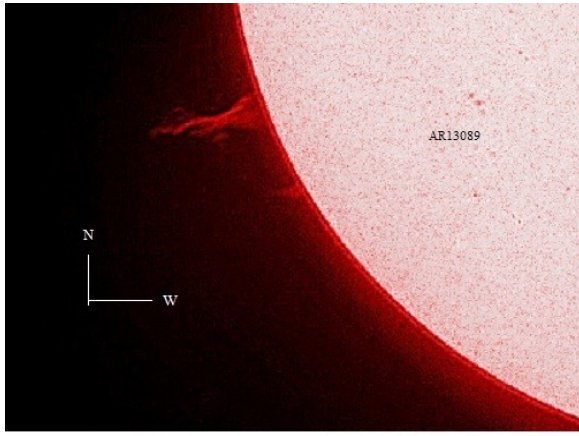
Date	Strongest flare	Date	Strongest flare
15.08.2022	M2.7	25.08.2022	M1.8
16.08.2022	M5.0	26.08.2022	M7.2
17.08.2022	M2.0	27.08.2022	M4.9
18.08.2022	M1.6	28.08.2022	M6.7
19.08.2022	M1.6	29.08.2022	M8.6

We reckon there have passed 1000 days (solar flux 1037 days) of the new cycle by this issue.  
 The prospects for a solar cycle much higher than no. 24 certainly is good!

Solar Max.: Our latest and final prediction to occur late July 2025, earliest possible may be April 2025.  
 Solar Flux onset period is ongoing but the P-Index is still rising (data from solar flux).  
 The Onset may occur already in September 2022, still promising for a larger cycle than the previous!

Stay tuned and observe the solar disk from now on!  
 Please remember you are always welcome to contribute with drawings and photos!

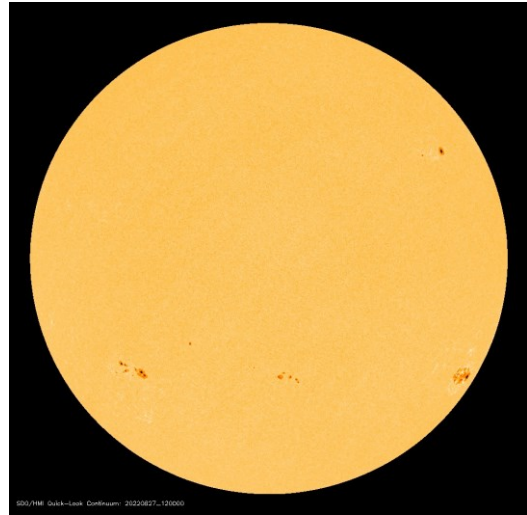
**Pictures from last month - Observer contributions, etc.**



Monty Leventhal OAM. Digital filtergram. Date: 27th August 2022. Time: 23.45 hrs UT. Telescope: Meade 10". Filter DayStar H-alpha Combo Quark. Camera: Canon EOS 600D. Exposure 1/8 sec 400 ISO. Supported by the Donovan Astronomical Strust. Testar Australia Pty. Ltd & the Ridley Grant of the BAA. Prominence height, Approximately 140K km.

CV-107 Monty Leventhal: SW region showing 140K prominence.

**Highlights August 2022**



SOHO image 2022 August 2022.

[photo courtesy SDO/HMI NOAA gov](#)

**Awards this month**

1

**Award no.: 155 to CV-001 KJELL INGE MALDE date 09 August 2022 milestone 9000 CV-obs.!**  
**CONGRATULATIONS!**




**New members:**

**Welcome to:**

none

We are now 50 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> <a href="https://www.cv-helios.net/helios/cv/web/cvobsmonth.htm">https://www.cv-helios.net/helios/cv/web/cvobsmonth.htm</a> for checking of Entries Summary	
<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>	
<b>Please check out <a href="http://www.cv-helios.net/cvrep2.html">www.cv-helios.net/cvrep2.html</a> for updates of files!</b>	
<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> <a href="#">Classification Help</a> login solaris password cvheliosobs <a href="#">Monthly Input Form as excel</a> Submission before 15th of proceeding month 18:00 UTC. (password: cvhelios) MPR issue 15th of proceeding month 2000 UTC. Good luck CV-observing!	
<b>Average received to registered time: 0 day 09 hours 09 minutes</b>	
<b>CV-Helios Network</b> <b>- over 41 years in solar amateur astronomy service!</b>  There are now Entries reg.: 12648 entries registered containing 204527 CV-observations! Last 12 months 6495 CV-observations from 44 observers originating from 18 countries	
<b>Editorial close: 15.09.2022 15:58 UTC</b>	
 <b>CV-Helios Network</b>	