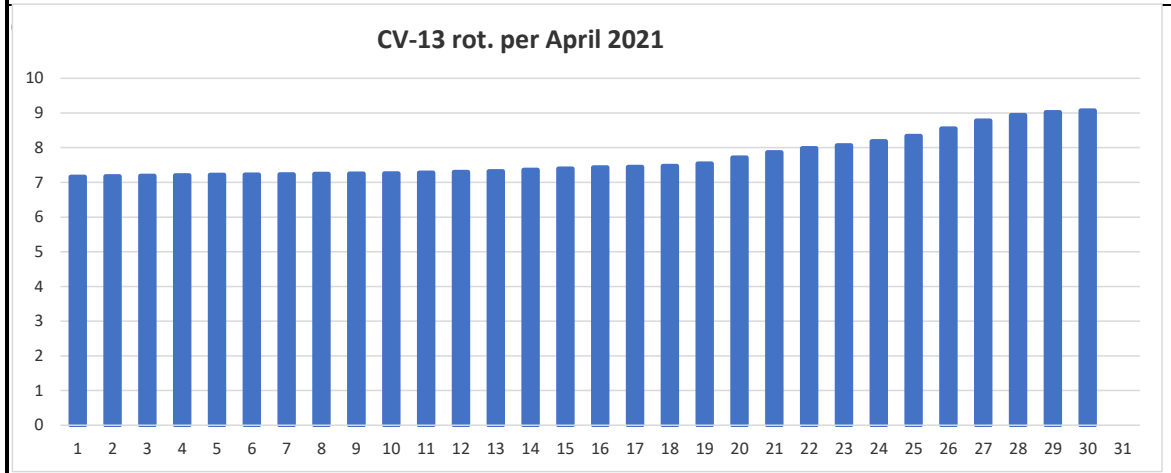
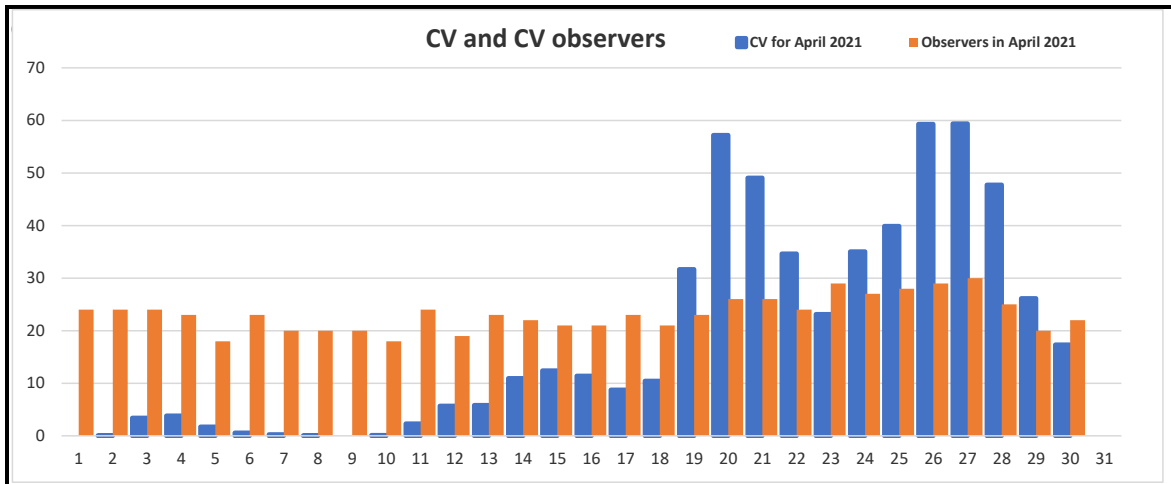


Results						
Date	CV	Obsrvrs	Regions 6 rot.	CV-USAF 6-rot.	CV-6 rot.	CV-13 rot.
1	0,00	24	1,54	14,18	16,04	7,16
2	0,08	24	1,54	14,12	15,93	7,17
3	3,42	24	1,54	14,05	15,85	7,19
4	3,83	23	1,54	14,00	15,82	7,20
5	1,72	18	1,54	13,95	15,78	7,21
6	0,57	23	1,54	13,89	15,72	7,22
7	0,25	20	1,54	13,83	15,64	7,23
8	0,10	20	1,54	13,77	15,47	7,24
9	0,00	20	1,54	13,64	15,31	7,25
10	0,11	18	1,53	13,45	15,09	7,26
11	2,33	24	1,52	13,05	14,71	7,27
12	5,68	19	1,52	12,89	14,56	7,30
13	5,83	23	1,51	12,73	14,48	7,32
14	10,95	22	1,50	12,70	14,50	7,36
15	12,43	21	1,50	12,76	14,56	7,40
16	11,38	21	1,51	12,77	14,45	7,43
17	8,74	23	1,52	12,51	14,24	7,44
18	10,43	21	1,51	12,27	13,92	7,47
19	31,70	23	1,51	12,10	13,85	7,54
20	57,19	26	1,50	11,81	14,02	7,71
21	49,08	26	1,49	11,48	14,16	7,87
22	34,67	24	1,50	11,46	14,20	7,98
23	23,14	29	1,51	11,39	14,21	8,07
24	35,07	27	1,52	11,53	14,36	8,19
25	39,89	28	1,53	11,69	14,58	8,33
26	59,31	29	1,54	12,02	15,04	8,55
27	59,40	30	1,55	12,33	15,55	8,78
28	47,76	25	1,57	12,55	15,92	8,94
29	26,15	20	1,59	12,71	16,09	9,02
30	17,32	22	1,60	12,78	16,13	9,07
Totals/ Avrgs	3,96	27,3	0,97	4,83	15,01	7,71



Sunspot Region Summary for April 2021
Reg.-First day-Last day-Lat.-Lon.-Rot.-CVavg.-ZMcl day1 to day14
 2813,04.04.21,06.04.21,20,159,2242-AXX,AXX,AXX,,,,,,,,,
 2814,12.04.21,17.04.21,-22,008,2242-BXO,BXO,CRO,DRO,BXO,BXO,,,,,,,,,
 2815,16.04.21,16.04.21,-21,344,2243-BXO,,,,,,,,,,,,,
 2816,16.04.21,23.04.21,-24,264,2243-CAO,CAO,CAO,DAI,CRO,CRO,CRO,AXX,,,,,
 2817,19.04.21,20.04.21,18,330,2243-BXO,CSO,,,,,,,,,,,,,
 2818,22.04.21,01.05.21,-16,205,2243-HSX,HSX,HSX,HSX,HSX,HSX,HSX,HSX,HSX,AXX,,,
 2819,24.04.21,24.04.21,24,245,2243-BXO,,,,,,,,,,,,,
 2820,24.04.21,30.04.21,-22,209,2243-DAI,DSO,DSI,ESI,DAO,CRO,BXO,,,,,,,,,
 2821,25.04.21,30.04.21,-22,222,2243-CRO,DSI,DAI,CAO,HSX,HSX,,,,,,,,,

: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.

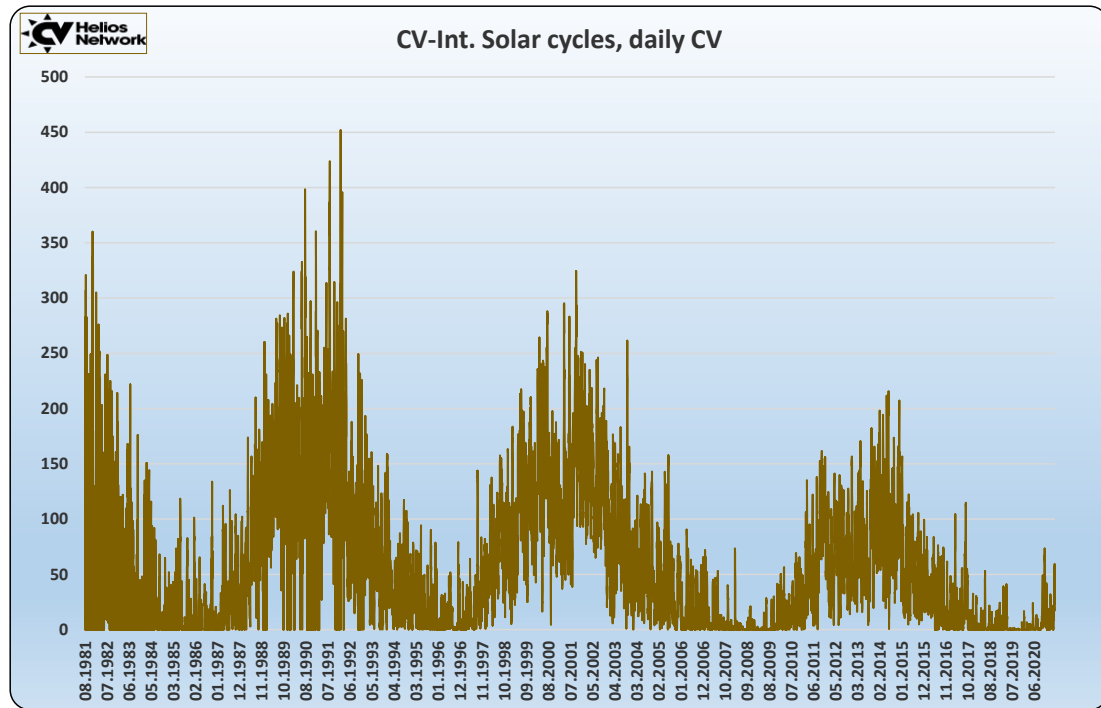
 No proton events were observed at geosynchronous orbit.

 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

Monthly graph



News April 2021

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

There are three regions only worthwhile mentioning:

reg. 2816, lat. S24, long. 264 (rot. 2243), class DAI, 120mvh on 19.04.2021

reg. 2817, lat. N18, long. 330 (rot. 2243), class CSO, 140mvh on 20.04.2021

reg. 2820, lat. S22, long. 209 (rot. 2243), class ESI, 110mvh on 27.04.2021

Some of these were flare-producers and aurora sightings have been reported many places.

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.

Obituary

We have received the sad message that one of our longest and faithfully serving members, Andreas Viertel, passed away on the 4th May this year.

He became a victim of the pandemic situation we all struggle against.

Andreas, member number CV-022, has been an active member since 1 Feb 1991 and delivered 5810 CV-observations over that time!

A really good solar observer and solar friend who will be sadly missed in our network and our goals for another way of doing solar observations.

Rest In Peace, dear friend!

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!

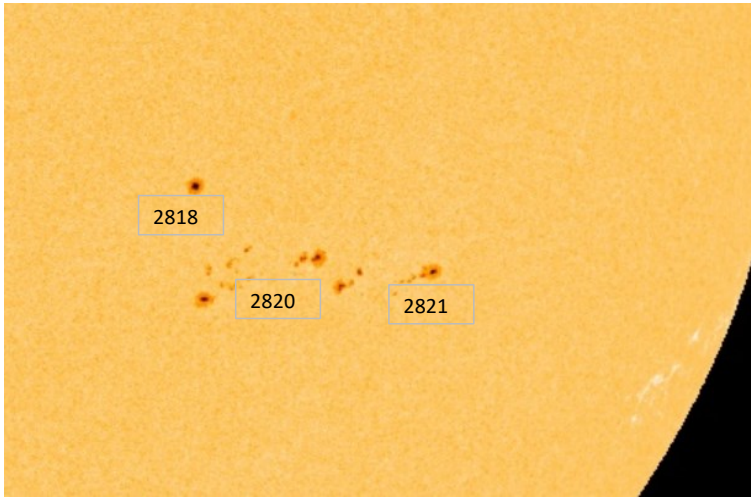
Please remember you are always welcome to contribute with drawings and photos!

Pictures from last month - Observer contributions, etc.

SOLAR CYCLE 25

Largest Regions of April 2021

Largest Regions of April 2021



**Regions 2818-2820-2821
on 27 Apr 2021 1200 UTC
courtesy SDO/HMI NOAA gov**

These three regions
made a nice sight end of April.

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 mif2021, https://www.cv-helios.net/mif2021.xlsx 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 (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 for updates of files!	
<u>SUBMISSIONS OF CV-OBSERVATIONS</u>	
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!	
Average Registration time over last 40 entries: 31 hours 17 minutes	
CV-Helios Network - over 39 years in solar amateur astronomy service!	
There are now 11849 entries registered containing 190557 CV-observations!	
Editorial close: 15.05.2021 17:40 UTC	
 CV-Helios Network	