

Monthly Preliminary Report

MPR



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CV-Helios Network

Monthly Preliminary Report for June 2020

Solar Cycle 25: Month no. 7

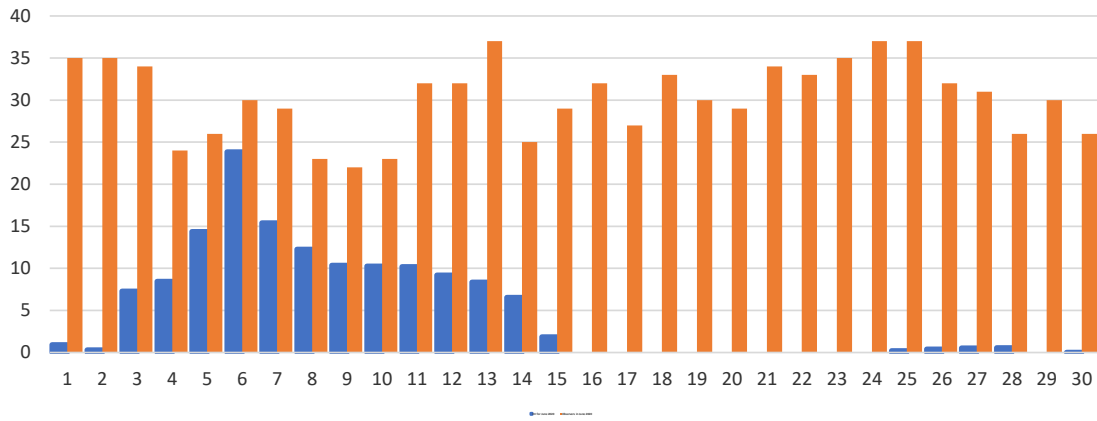
Report id.: cv2006 - CV-report no.: 467

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	KJELL INGE MALDE	NORWAY	3,0	23	0,707	8511
CV-009	DIETER BRAUCKHOFF	GERMANY	4,8	24	1,112	1317
CV-010	FRANKY DUBOIS	BELGIUM	4,7	29	1,097	8730
CV-019	ELMAR JUNKER	GERMANY	4,7	15	1,083	3470
CV-020	MANFRED HOLL	GERMANY	4,4	27	1,023	5422
CV-021	HOWARD BARNES	NEW ZEALAND	3,2	13	0,750	4371
CV-022	ANDREAS VIERTEL	GERMANY	3,5	23	0,818	5665
CV-023	HARTMUT BRETSCHNE	GERMANY	3,8	25	0,873	5099
CV-038	GERMAN MORALES	BOLIVIA	4,1	24	0,948	7171
CV-040	ROBERTO BATTAIOLA	ITALY	0,0	4	0,000	1786
CV-041	JENS ROTHERMEL	GERMANY	2,9	17	0,683	1153
CV-044	GERD SCHROEDER	GERMANY	2,4	17	0,546	4401
CV-068	SVEN OVE THIMM	DENMARK	3,0	20	0,685	3670
CV-077	ANDREW JOHNSTON	UNITED KINGDOM	3,7	23	0,868	3060
CV-080	JAN JANSSENS	BELGIUM	4,2	9	0,980	1066
CV-082	PIOTR URBANSKI	POLAND	6,7	26	1,554	4786
CV-086	TOS POLAND	POLAND	5,6	30	1,292	7509
CV-091	GRZEGORZ DALEK	POLAND	4,5	25	1,049	4157
CV-102	PAULO ROBERTO MOSE	BRAZIL	4,2	26	0,982	2226
CV-103	OCTAAF STEEN	BELGIUM	4,6	29	1,065	5352
CV-105	ALEXEY RYBACK	RUSSIA	4,3	14	0,995	2975
CV-107	MONTY LEVENTHAL	AUSTRALIA	4,0	16	0,929	4292
CV-116	TERJE BJERKGAARD	NORWAY	5,8	10	1,346	917
CV-122	VLASTISLAV FEIK	CZECH REPUBLIC	3,8	19	0,880	2561
CV-135	GEMA ARAUJO	SPAIN	5,1	30	1,176	6341

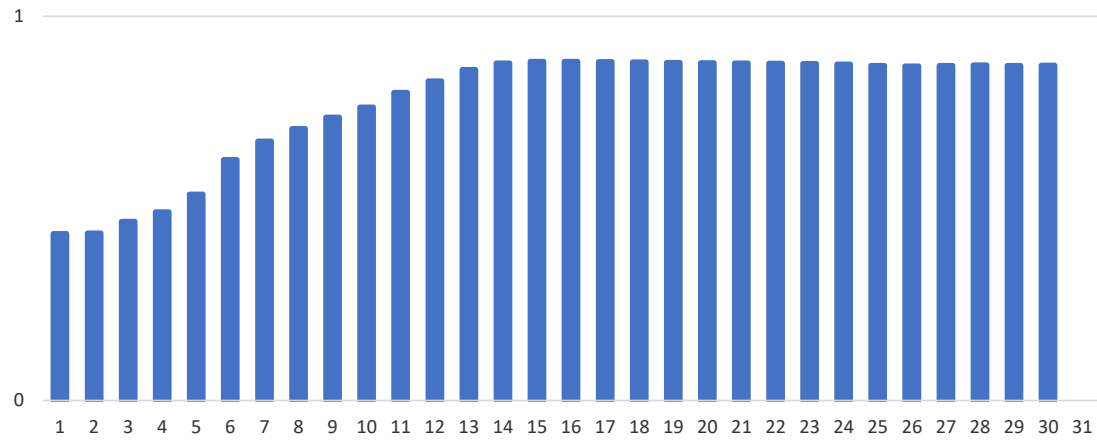
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Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-136	FAUSTINO GARCIA	SPAIN	5,0	18	1,161	3315
CV-139	JAVIER ALONSO	SPAIN	5,4	23	1,252	3462
CV-151	JEFFREY CARELS	BELGIUM	4,3	22	1,002	2674
CV-171	WALTER JOSE MALUF	BRAZIL	3,8	23	0,878	2182
CV-177	HENDRIK DE BACKER	BELGIUM	4,7	30	1,099	1646
CV-181	ADAM DERDZIKOWSKI	POLAND	3,4	5	0,789	915
CV-190	RUBEN VERBOVEN	BELGIUM	3,8	17	0,874	274
CV-198	DENIS WALLIAN	FRANCE	5,9	14	1,360	314
CV-202	JORDI ZAMORA	SPAIN	3,9	27	0,894	876
CV-203	IVO DEMEULENAERE	BELGIUM	4,0	22	0,918	536
CV-204	STEFAN MEISTER	SWITZERLAND	6,4	16	1,494	313
CV-205	TOM MANGELSDORF	UNITED STATES	12,7	3	2,940	34
CV-207	ONDREJOV OBS. (AI CA	CZECH REPUBLIC	2,7	15	0,635	5103
CV-208	JOHAN NEYS	BELGIUM	3,6	20	0,824	347
CV-209	CAIO CRESPO MORAES	BRAZIL	4,6	7	1,061	543
CV-210	JEAN BOURGEOIS	BELGIUM	3,7	29	0,849	555
CV-211	EDWIN DE CEUNINCK	BELGIUM	4,8	27	1,109	451
CV-212	ANTONIO JESUS ZAPAT	SPAIN	16,7	3	3,869	259
CV-213	DIRK LAURENT	BELGIUM	5,7	26	1,330	281
CV-214	IGOR GRAGEDA	BOLIVIA	3,0	28	0,696	251
CV-215	ARNAUD MENGUS	FRANCE	5,7	15	1,315	54
Totals	Observers 46	Days 30	CV 4,66	No 908	K 1,082	

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Results				*CV-USAF prepared via data from Joint USDC/NOAA, SWPC/USAF			
Date	CV	Obsrvrs	Regions 6 rot.	* CV-USAF 6 rot.	CV-6 rot.	CV-13 rot.	
1	0,94	35	0,18	0,64	0,79	0,43	
2	0,31	35	0,18	0,64	0,79	0,44	
3	7,29	34	0,19	0,70	0,85	0,47	
4	8,46	24	0,20	0,76	0,90	0,49	
5	14,38	26	0,19	0,79	0,96	0,54	
6	23,87	30	0,18	0,92	1,12	0,63	
7	15,41	29	0,18	0,96	1,21	0,68	
8	12,26	23	0,19	1,03	1,27	0,71	
9	10,36	22	0,20	1,10	1,33	0,74	
10	10,26	23	0,20	1,16	1,39	0,76	
11	10,22	32	0,21	1,22	1,47	0,80	
12	9,22	32	0,21	1,28	1,53	0,83	
13	8,38	37	0,22	1,34	1,59	0,86	
14	6,56	25	0,22	1,39	1,62	0,88	
15	1,86	29	0,22	1,40	1,61	0,88	
16	0,00	32	0,21	1,40	1,59	0,88	
17	0,00	27	0,21	1,39	1,57	0,88	
18	0,00	33	0,20	1,38	1,56	0,88	
19	0,00	30	0,20	1,38	1,56	0,88	
20	0,00	29	0,20	1,38	1,55	0,88	
21	0,00	34	0,20	1,35	1,53	0,88	
22	0,00	33	0,19	1,35	1,52	0,88	
23	0,00	35	0,19	1,35	1,51	0,88	
24	0,00	37	0,19	1,35	1,51	0,88	
25	0,22	37	0,19	1,35	1,50	0,87	
26	0,41	32	0,19	1,35	1,50	0,87	
27	0,55	31	0,19	1,35	1,50	0,87	
28	0,58	26	0,19	1,35	1,50	0,87	
29	0,00	30	0,19	1,35	1,50	0,87	
30	0,04	26	0,19	1,35	1,50	0,87	
Totals/ Avrgs	4,72	30,3	0,77	4,42	1,38	0,78	

CV and CV observers



CV-13 rot. per June 2020



Solar Region Summary for June 2020

Reg.-First day-Last day-Lat.-Lon.-Rot.-Area-Lgth.-CVtot.-class14d

2764-01.06.20-01.06.20-N35-165-2231-0-0-1,0-AXX

2765-03.06.20-15.06.20-S24-115-2231-70-3-10,5-HSX-HSX-CAO-DSO-CAO-CSO-CSO-HSX-HSX-HSX-HSX-HRX

-----**:Product: Weekly Highlights and Forecasts**

:Issued: 2020 Jul 13 0246 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>

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Weekly Highlights and Forecasts

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Highlights of Solar and Geomagnetic Activity

06 - 12 July 2020

Solar activity was very low throughout the summary period. Region 2766 (N05, L=122, class/area Bxo/010 on 10 Jul) was the only spotted region and decayed to plage by 11 Jul.

A filament eruption near S29W18 produced a faint, slow-moving CME signature in LASCO/SOHO C2 imagery beginning at 09/0724 UTC. Analysis and modeling of the event suggested a possible glancing blow from the CME around 14 Jul.

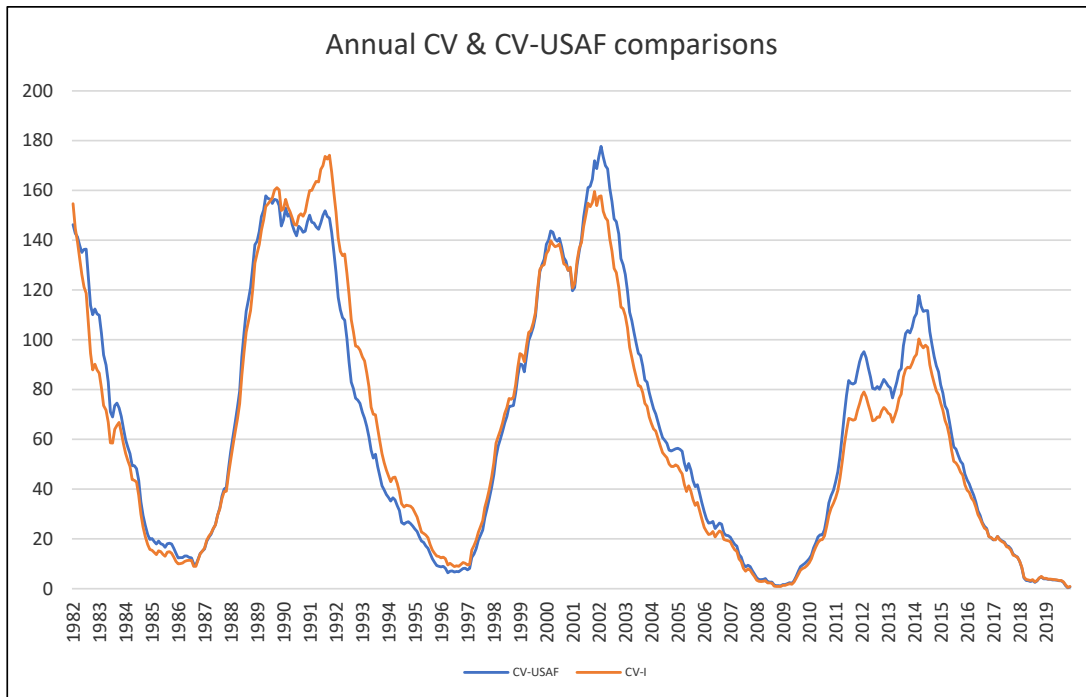
No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity was quiet. No significant periods of southward Bz were observed.

CV-I vs R-I graph

Solar minimum has occurred?



Above is the comparison
 CV-I (preliminary for 2020) and CV-USAF
 The average correlation solar cycle 24 between CV-I and CV-USAF is 93,9%

[Awards this month](#)

0

[New member:](#)

Welcome to:

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:

Latest: **MINIMUM MAY HAVE OCCURRED APPROX. 23 NOV 2019 (latest readings Flux)**

May 2020 news

No significant solar regions were visible during May 2020. June more promising... next issue.
 NOTE! Heading: We anticipate that we may say hello to Solar Cycle 25, hence Month no. 6
 hence we chance to call May 2020 Month no. 6 in the new cycle!

New feature

New from May 2020

Another new feature is now available at CV-Helios Network website.
 The second new feature concerns the daily preliminary reports.
 Now, you can have the option of the old file type in excel or the new one,
 a bit shorter version in **html** (omitting individual results).
 the basis for the Monthly Preliminary Reports that from
 2014 March 3 have been published as excel files.
 Both versions are updated upon new registrations.



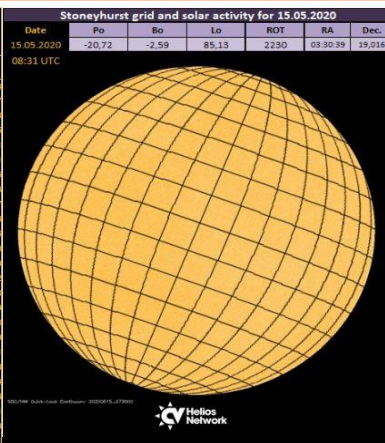
Click here for the new version in html which was first tested 2020 June 3:
<http://www.cv-helios.net/helios/cv/web/mprpost1.html>

Click here for the old excel version:
<http://www.cv-helios.net/helios/cv/web/mprpost.html>
 Menu for old files 2014-2020 are here:
<http://www.cv-helios.net/helios/cv/web/dayreports.htm>

Solar Coordinates

New from April 2020

CV-Helios Network							
Sun Ephemeris for rotation 15.05.20-11.06.20							
DATE	Po	Bo	Lo	ROT	DIA arcmin	RA	Dec
15.05.2020	-20.84	-2.94	90.93	2230	32.320	03:28:55	18.914
16.05.2020	-20.56	-2.53	77.70	2230	32.328	03:32:52	19.147
17.05.2020	-20.28	-2.41	64.48	2230	32.335	03:38:50	19.374
18.05.2020	-19.98	-2.30	51.25	2230	32.342	03:40:40	19.595
19.05.2020	-19.68	-2.18	38.02	2230	32.349	03:44:46	19.811
20.05.2020	-19.38	-2.07	24.79	2230	32.356	03:48:48	20.021
21.05.2020	-19.07	-1.95	11.57	2230	32.362	03:52:48	20.225
22.05.2020	-18.75	-1.82	-1.64	2231	32.369	03:56:40	20.424
23.05.2020	-18.43	-1.71	-13.11	2231	32.375	04:00:51	20.617
24.05.2020	-18.10	-1.60	-24.58	2231	32.381	04:04:53	20.804
25.05.2020	-17.76	-1.48	-36.05	2231	32.387	04:08:56	20.985
26.05.2020	-17.42	-1.36	-47.52	2231	32.393	04:12:58	21.160
27.05.2020	-17.08	-1.24	-58.98	2231	32.399	04:17:01	21.329
28.05.2020	-16.73	-1.12	-70.45	2231	32.404	04:21:05	21.492
29.05.2020	-16.37	-1.00	-81.92	2231	32.409	04:25:09	21.648
30.05.2020	-16.01	-0.88	-93.39	2231	32.415	04:29:14	21.798
31.05.2020	-15.64	-0.76	-104.86	2231	32.420	04:33:19	21.943
01.06.2020	-15.27	-0.64	-116.33	2231	32.425	04:37:25	22.083
02.06.2020	-14.88	-0.52	-127.80	2231	32.430	04:41:31	22.217
03.06.2020	-14.51	-0.40	-139.27	2231	32.435	04:45:37	22.346
04.06.2020	-14.12	-0.28	-150.74	2231	32.440	04:49:44	22.469
05.06.2020	-13.72	-0.16	-162.21	2231	32.445	04:53:51	22.586
06.06.2020	-13.34	-0.04	-173.68	2231	32.450	04:57:58	22.697
07.06.2020	-12.94	0.08	-185.15	2231	32.454	05:02:06	22.799
08.06.2020	-12.54	0.21	-196.62	2231	32.459	05:06:14	22.891



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.

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 June 2020: Average Time from Receipt to Registered CV-Observations: 10 hours 20 minutes

CV-Helios Network
- over 38 years in solar amateur astronomy service!

There are now 11608 entries registered
containing 185706 CV-observations!

This MPR issued 15th July 2020



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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: 15.07.2020 17:20 UTC