

Monthly Preliminary Report

MPR



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CV-Helios Network

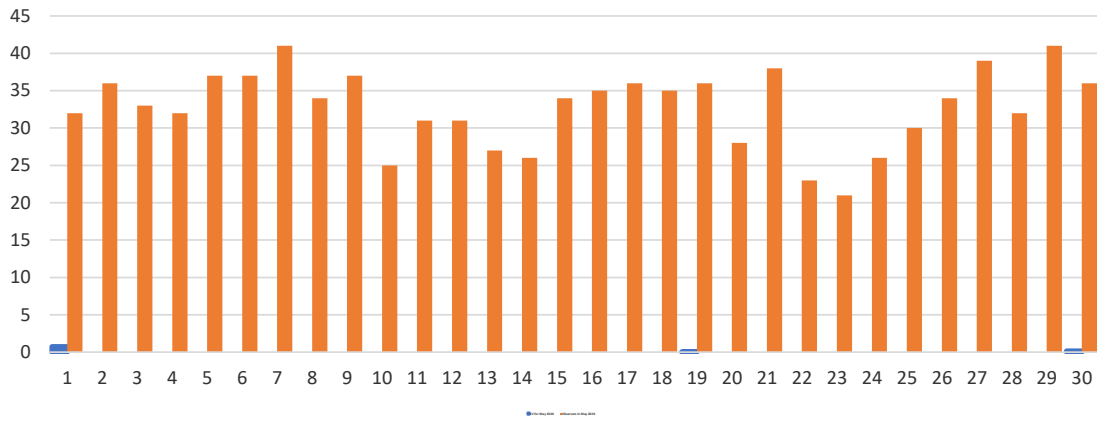
Monthly Preliminary Report for May 2020**Solar Cycle 25: Month no. 6****Report id.: cv2005 - CV-report no.: 466**

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	0,1	26	1,898	8488
CV-009	BRAUCKHOFF, DIETER	GERMANY	0,3	27	6,397	1293
CV-010	DUBOIS, FRANKY	BELGIUM	0,1	30	1,645	8701
CV-019	JUNKER, ELMAR	GERMANY	0,0	19	0,000	3455
CV-020	HOLL, MANFRED	GERMANY	0,1	29	1,702	5395
CV-021	BARNES, HOWARD	NEW ZEALAND	0,0	15	0,000	4358
CV-022	VIERTEL, ANDREAS	GERMANY	0,0	22	0,000	5642
CV-023	BRETSCHNEIDER, HAR	GERMANY	0,1	27	2,742	5074
CV-038	MORALES, GERMAN	BOLIVIA	0,0	20	0,000	7147
CV-041	ROTHERMEL, JENS	GERMANY	0,1	20	1,234	1136
CV-044	SCHRÖDER, GERD	GERMANY	0,0	21	0,000	4384
CV-068	THIMM, SVEN OVE	DENMARK	0,0	23	0,000	3650
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	0,0	29	0,000	3037
CV-080	JANSSENS, JAN	BELGIUM	0,0	13	0,000	1057
CV-082	URBANSKI, PIOTR	POLAND	0,1	30	1,645	4760
CV-086	TOS-POLAND	POLAND	0,1	31	2,388	7479
CV-091	DALEK, GRZEGORZ	POLAND	0,0	25	0,000	4132
CV-102	MOSER, PAULO ROBER	BRAZIL	0,0	23	0,000	2200
CV-103	STEEN, OCTAAF	BELGIUM	0,1	30	3,290	5323
CV-105	RYBACK, ALEXEY	RUSSIA	0,2	20	4,935	2961
CV-107	LEVENTHAL, MONTY	AUSTRALIA	0,0	20	0,000	4276
CV-116	BJERKGÅRD, TERJE	NORWAY	0,0	10	0,000	907
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	0,0	24	1,028	2542
CV-135	ARAUJO, GEMA	SPAIN	0,1	31	2,388	6311
CV-136	GARCIA, FAUSTINO	SPAIN	0,0	21	0,000	3297

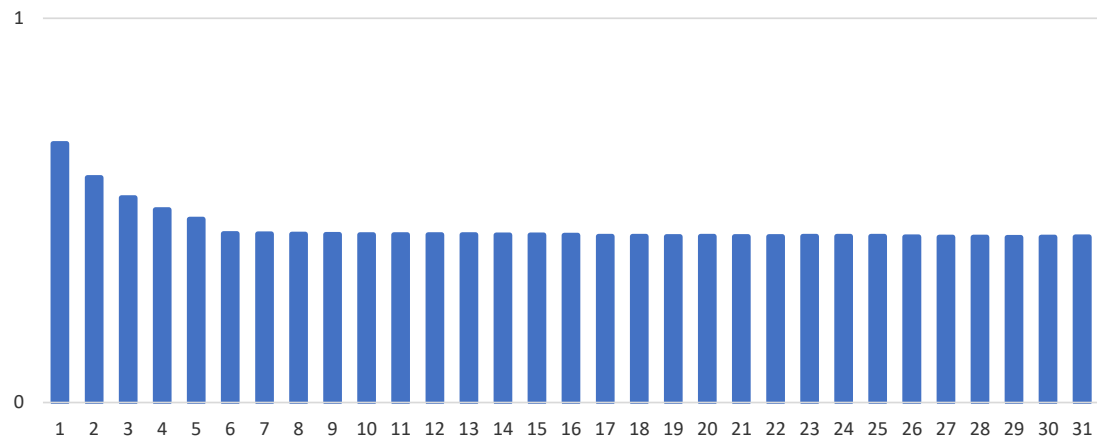
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Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-151	CARELS, JEFFREY	BELGIUM	0,0	29	0,000	2652
CV-171	MALUF, WALTER JOSE	BRAZIL	0,0	28	0,000	2159
CV-177	BACKER, HENDRIK DE	BELGIUM	0,1	31	1,592	1616
CV-181	DERDZIKOWSKI, ADAM	POLAND	0,0	5	0,000	910
CV-190	VERBOVEN, RUBEN	BELGIUM	0,0	25	0,987	257
CV-201	BASU, SANTANU	INDIA	0,0	26	0,000	454
CV-202	ZAMORA, JORDI	SPAIN	0,0	26	0,000	849
CV-203	DEMEULENAERE, IVO	BELGIUM	0,0	24	0,000	514
CV-204	MEISTER, STEFAN	SWITZERLAND	0,0	7	0,000	297
CV-205	MANGELSDORF, TOM	UNITED STATES	0,0	5	0,000	31
CV-206	FIGIEL, TADEUSZ	POLAND	0,0	10	0,000	166
CV-207	ONDREJOV OBS. (AI CA	CZECH REPUBLIC	0,0	18	0,000	5088
CV-208	NEYS, JOHAN	BELGIUM	0,0	26	0,000	327
CV-209	MORAES, CAIO CRESPO	BRAZIL	0,0	10	0,000	536
CV-210	BOURGEOIS, JEAN	BELGIUM	0,0	31	0,000	526
CV-211	CEUNINCK, EDWIN DE	BELGIUM	0,1	29	2,553	424
CV-212	ZAPATA MORALES, ANTON	SPAIN	0,0	1	0,000	256
CV-213	LAURENT, DIRK	BELGIUM	0,0	27	0,914	255
CV-214	GRAGEDA, IGOR	BOLIVIA	0,0	26	0,000	223
CV-215	MENGUS, ARNAUD	FRANCE	0,0	20	0,000	39
Totals	Observers	Days	CV	No	K	
	46	31	0,03	1016	0,812	

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*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	0,75	32	0,18	0,64	0,91	0,67	
2	0,00	36	0,18	0,64	0,90	0,59	
3	0,00	33	0,18	0,64	0,90	0,53	
4	0,00	32	0,18	0,64	0,89	0,50	
5	0,00	37	0,18	0,64	0,89	0,48	
6	0,00	37	0,18	0,64	0,88	0,44	
7	0,00	41	0,18	0,64	0,87	0,44	
8	0,00	34	0,18	0,64	0,87	0,44	
9	0,00	37	0,18	0,64	0,86	0,44	
10	0,00	25	0,18	0,64	0,86	0,44	
11	0,00	31	0,18	0,64	0,85	0,44	
12	0,00	31	0,18	0,64	0,85	0,44	
13	0,00	27	0,18	0,64	0,85	0,44	
14	0,00	26	0,18	0,64	0,85	0,44	
15	0,00	34	0,18	0,64	0,84	0,44	
16	0,00	35	0,18	0,64	0,84	0,44	
17	0,00	36	0,18	0,64	0,83	0,43	
18	0,00	35	0,18	0,64	0,83	0,43	
19	0,03	36	0,18	0,64	0,82	0,43	
20	0,00	28	0,18	0,64	0,82	0,43	
21	0,00	38	0,18	0,64	0,82	0,43	
22	0,00	23	0,18	0,64	0,82	0,43	
23	0,00	21	0,18	0,64	0,82	0,43	
24	0,00	26	0,18	0,64	0,81	0,43	
25	0,00	30	0,18	0,64	0,81	0,43	
26	0,00	34	0,18	0,64	0,81	0,43	
27	0,00	39	0,18	0,64	0,80	0,43	
28	0,00	32	0,18	0,64	0,80	0,43	
29	0,00	41	0,18	0,64	0,79	0,43	
30	0,17	36	0,18	0,64	0,79	0,43	
31	0,30	33	0,18	0,64	0,79	0,43	
Totals/ Avrgs	0,04	32,8	0,03	0,00	0,84	0,45	

CV and CV observers



CV-13 rot. per May 2020



Solar Region Summary for May 2020

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

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

:Issued: 2020 Jun 15 0042 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

08 - 14 June 2020

Solar activity was at very low levels throughout the period. Region 2765 (S24, L=116, class/area Cao/130 on 05 Jun) produced a B1 flare at 09/0311 UTC but was otherwise stable and unremarkable. 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 reached moderate levels throughout the reporting period.

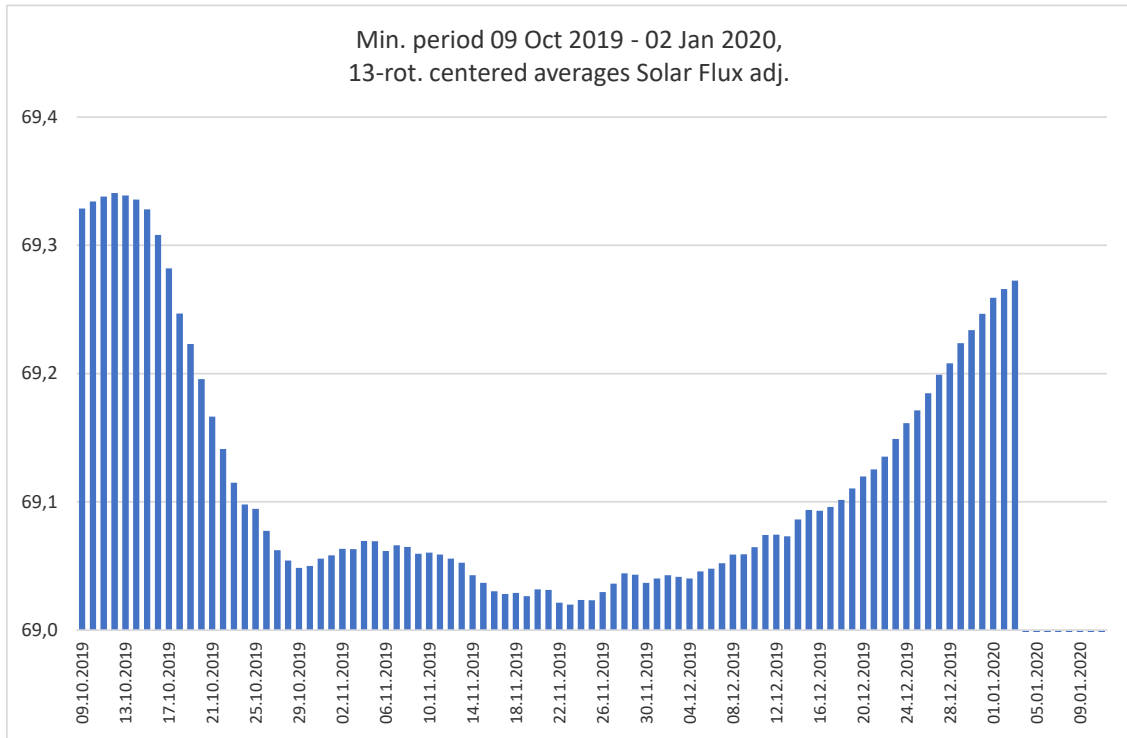
Geomagnetic field activity was at mostly quiet levels with isolated unsettled intervals on 09-10 June due to CH HSS influence.

Forecast of Solar and Geomagnetic Activity

15 June - 11 July 2020

Solar activity is expected to be at very low levels.

CV-I vs R-I graph



Solar minimum: Has it occurred last year?

The above graphic show the 13-rot. average+13 rot. centered averages for 10,7 cm solar flux 2800 MHz.

It may seem minimum occurred late November 2019.

[Awards this month](#)

[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)**

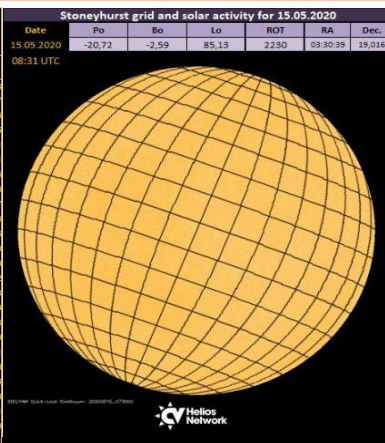
May 2020 news

NEW FORMAT AVAILABLE

The screenshot shows a table with columns for 'Date', 'Po', 'Bo', 'Lo', 'ROT', 'RA', and 'Dec.' for the month of May 2020. The data is organized in a grid format, likely representing solar activity measurements over time.

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	-1.83	-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	-58.99	2231	32.399	04:17:01	21.329
28.05.2020	-16.73	-1.12	-70.46	2231	32.404	04:21:05	21.492
29.05.2020	-16.37	-1.00	-81.93	2231	32.409	04:25:09	21.648
30.05.2020	-16.01	-0.88	-93.40	2231	32.415	04:29:14	21.798
31.05.2020	-15.64	-0.76	-104.87	2231	32.420	04:33:19	21.943
01.06.2020	-15.27	-0.64	-116.34	2231	32.425	04:37:25	22.083
02.06.2020	-14.89	-0.52	-127.81	2231	32.430	04:41:31	22.218
03.06.2020	-14.51	-0.40	-139.28	2231	32.435	04:45:37	22.348
04.06.2020	-14.12	-0.28	-150.75	2231	32.440	04:49:44	22.474
05.06.2020	-13.73	-0.16	-162.22	2231	32.445	04:53:51	22.596
06.06.2020	-13.34	-0.04	-173.69	2231	32.450	04:57:58	22.714
07.06.2020	-12.94	0.08	-185.16	2231	32.454	05:02:06	22.827
08.06.2020	-12.54	0.21	-196.63	2231	32.459	05:06:14	22.935



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.



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

There are now 11562 entries registered
containing 184798 CV-observations!

This MPR issued 15th June 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: 15.06.2020 19:03 UTC