

# Monthly Preliminary Report

## MPR



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Volume 39 Number 5

MPR no. 454

May 2019

ISSN 2535-3780

## CV-Helios Network

Monthly Preliminary Report for May 2019

Solar Cycle 24: Month no. 127

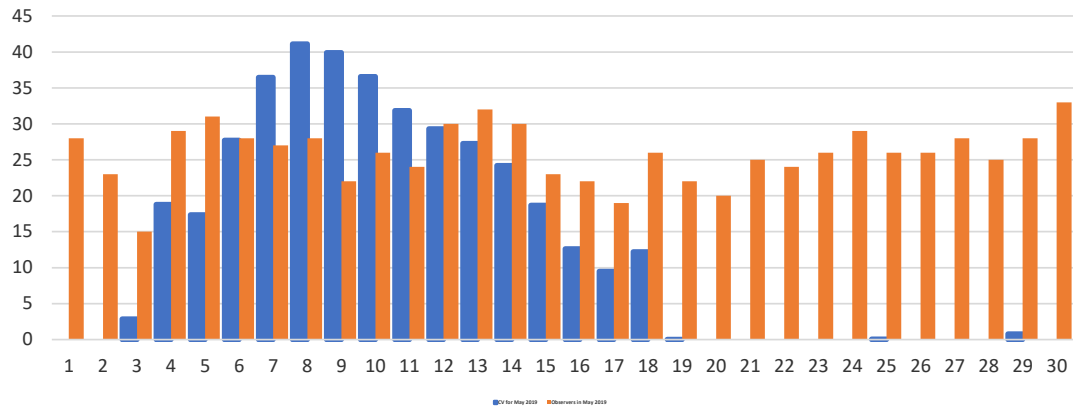
Report id.: cv1905.xls - CV-report no.: 454

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	10,8	24	0,872	8249
CV-009	BRAUCKHOFF, DIETER	GERMANY	21,2	26	1,720	995
CV-010	DUBOIS, FRANKY	BELGIUM	18,4	28	1,490	8402
CV-019	JUNKER, ELMAR	GERMANY	23,5	2	1,907	3329
CV-020	HOLL, MANFRED	GERMANY	5,7	23	0,462	5235
CV-021	BARNES, HOWARD	NEW ZEALAND	18,4	12	1,495	4192
CV-022	VIERTEL, ANDREAS	GERMANY	8,8	25	0,717	5469
CV-023	BRETSCHNEIDER, HAR	GERMANY	8,0	19	0,649	4796
CV-038	MORALES, GERMAN	BOLIVIA	3,9	29	0,316	6833
CV-040	BATTAIOLA, ROBERTO	ITALY	16,3	3	1,326	1749
CV-041	ROTHERMEL, JENS	GERMANY	19,0	4	1,542	1018
CV-044	SCHRÖDER, GERD	GERMANY	9,8	19	0,795	4187
CV-068	THIMM, SVEN OVE	DENMARK	6,8	9	0,550	3537
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	8,0	21	0,649	2806
CV-080	JANSSENS, JAN	BELGIUM	6,0	4	0,487	998
CV-082	URBANSKI, PIOTR	POLAND	22,3	20	1,810	4501
CV-086	TOS-POLAND	POLAND	11,4	31	0,927	7142
CV-091	DALEK, GRZEGORZ	POLAND	8,3	24	0,670	3903
CV-103	STEEN, OCTAAF	BELGIUM	7,6	30	0,620	5000
CV-104	MEEUS, LIEVE	BELGIUM	6,3	3	0,514	2209
CV-105	RYBACK, ALEXEY	RUSSIA	9,9	14	0,806	2832
CV-107	LEVENTHAL, MONTY	AUSTRALIA	16,8	24	1,363	4086
CV-116	BJERKGÅRD, TERJE	NORWAY	26,8	10	2,175	877
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	12,2	20	0,986	2293
CV-135	ARAUJO, GEMA	SPAIN	6,5	31	0,524	5949

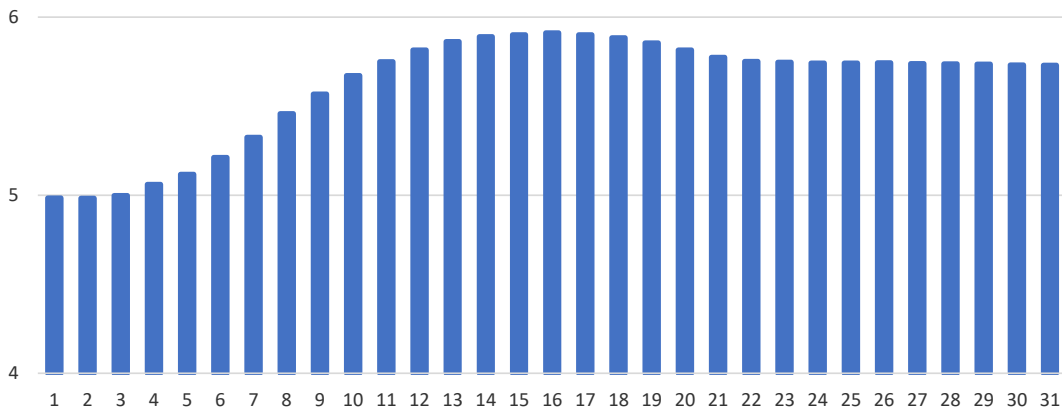
<b>Volume 39 Number 5</b>		<b>MPR no. 454</b>	<b>May 2019</b>	<b>ISSN 2535-3780</b>		
Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-139	ALONSO, JAVIER	SPAIN	13,9	20	1,128	3197
CV-151	CARELS, JEFFREY	BELGIUM	8,4	24	0,683	2377
CV-171	MALUF, WALTER JOSE	BRAZIL	17,4	15	1,412	1929
CV-177	BACKER, HENDRIK DE	BELGIUM	20,9	29	1,693	1302
CV-181	DERDZIKOWSKI, ADAM	POLAND	4,5	6	0,365	833
CV-201	BASU, SANTANU	INDIA	47,2	11	3,829	223
CV-202	ZAMORA, JORDI	SPAIN	11,2	24	0,910	771
CV-203	DEMEULENAERE, IVO	BELGIUM	18,3	22	1,487	289
CV-204	MEISTER, STEFAN	SWITZERLAND	11,4	21	0,924	195
CV-206	FIGIEL, TADEUSZ	POLAND	21,8	9	1,767	121
CV-207	ONDREJOV OBSERVAT	CZECH REPUBLIC	4,1	9	0,334	4895
CV-208	NEYS, JOHAN	BELGIUM	9,3	17	0,754	172
CV-209	MORAES, CAIO CRESPO	BRAZIL	12,5	10	1,015	481
CV-210	BOURGEOIS, JEAN	BELGIUM	5,8	25	0,474	317
CV-211	CEUNINCK, EDWIN DE	BELGIUM	26,3	28	2,133	200
CV-212	ZAPATA MORALES, ANTONIO	SPAIN	13,1	30	1,066	49
CV-213	LAURENT, DIRK	BELGIUM	14,0	25	1,139	47
<b>Totals</b>	<b>Observers</b> <b>43</b>	<b>Days</b> <b>31</b>	<b>CV</b> <b>13,45</b>	<b>No</b> <b>802</b>	<b>K</b> <b>1,092</b>	

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*CV-USAF prepared via data from Joint USDC/NOAA, SWPC/USAF						
Date	CV	Obsrvrs	*USAF-CV	std.dev.	CV-6 rot.	CV-13 rot.
1	0,00	28	0	0,00	7,07	4,98
2	0,00	23	0	0,00	7,04	4,98
3	2,87	15	40	26,26	7,04	5,00
4	18,79	29	40	15,00	7,17	5,06
5	17,35	31	60	30,15	7,29	5,12
6	27,71	28	21	4,75	7,49	5,21
7	36,48	27	18	13,07	7,72	5,32
8	41,11	28	18	16,34	8,00	5,46
9	39,91	22	17	16,20	8,21	5,57
10	36,58	26	17	13,84	8,43	5,67
11	31,83	24	34	1,53	8,62	5,75
12	29,30	30	14	10,82	8,83	5,82
13	27,28	32	11	11,51	9,04	5,86
14	24,20	30	10	10,04	9,20	5,89
15	18,70	23	10	6,15	9,29	5,90
16	12,64	22	7	3,99	9,34	5,91
17	9,47	19	7	1,75	9,40	5,90
18	12,23	26	7	3,70	9,40	5,88
19	0,05	22	0	0,03	9,31	5,85
20	0,00	20	0	0,00	9,26	5,82
21	0,00	25	0	0,00	9,24	5,77
22	0,00	24	0	0,00	9,22	5,75
23	0,00	26	0	0,00	9,20	5,75
24	0,00	29	0	0,00	9,16	5,74
25	0,08	26	0	0,05	9,14	5,74
26	0,00	26	0	0,00	9,12	5,74
27	0,00	28	0	0,00	9,07	5,74
28	0,00	25	0	0,00	9,05	5,74
29	0,79	28	0	0,56	9,02	5,74
30	0,00	33	0	0,00	8,97	5,73
31	0,00	27	0	0,00	8,94	5,73
Totals/ Avrgs	12,50	25,9	10,13	5,78	6,46	16,13

CV and CV observers

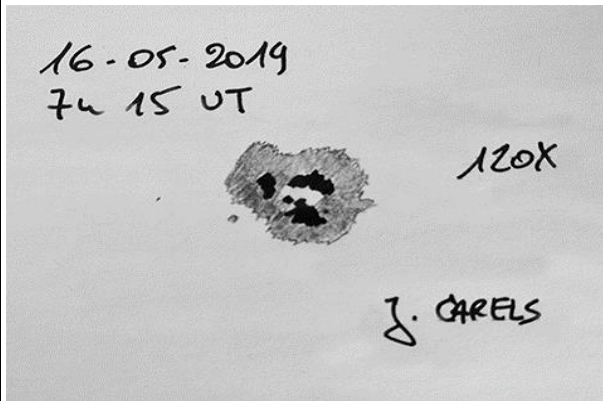


CV-13 rot. per May 2019



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<b>Solar Region Summary for May 2019</b>			
<u>Reg.-First day-Last day-Lat.-Lon.-Rot.-Area-Lgth.-CVtot.-class14d</u>			
2740-03.05.19-15.05.19-N12-307-2216-260-4-15,4-HHX-HHX-DHO-CSO-CSO-CAO-CAO-HAX-HAX-HAX-HAX-HRX-AXX			
2741-06.05.19-19.05.19-N05-267-2216-100-2-9,4-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HAX-HAX-			
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<b>:Product: Weekly Highlights and Forecasts</b>			
:Issued: 2019 Jun 10 0314 UTC			
# Prepared by the US Dept. of Commerce, NOAA, Space Weather Prediction Center			
# Product description and SWPC contact on the Web			
# <a href="https://www.swpc.noaa.gov/content/subscription-services">https://www.swpc.noaa.gov/content/subscription-services</a>			
#			
#       Weekly Highlights and Forecasts			
#			
Highlights of Solar and Geomagnetic Activity			
03 - 09 June 2019			
<p>Solar activity was at very low levels. No sunspots were observed on the visible disk and there was an absence of significant flare activity. A disappearing solar filament (DSF), centered near S05E52, was observed in GONG optical imagery at 03/0715 UTC but was not observed in LASCO imagery. This CME was believed to have impacted Earth midday on 08 June. An additional DSF, centered near S05E13, was observed at 07/2145 UTC and is expected to have a possible geoeffective component with an anticipated arrival of 12 June.</p>			
<p>No proton events were observed at geosynchronous orbit.</p>			
<p>The greater than 2 MeV electron flux at geosynchronous orbit reached high levels on 03 June and moderate levels on 04-08 June in response to elevated wind speeds from a negative polarity, coronal hole high-speed stream (CH HSS). The peak electron flux during the reporting period was 2,270 pfu at 03/1755 UTC.</p>			

## Image Reports

Upper left drawing:

CV-151 Jeffrey Carels's drawing from 16th May 2019 0715 UTC. No good seeing he reports, no details visible in the penumbra. There was a light bridge visible in the center of the sunspot. Used setup was an Orion ED100-Lunt Herschel wedge-ND3-Baader Continuum-2xTV barlow-15mm TV Plossl.

Left photo:

Photo from CV-107 Monty Leventhal on 6th May 2019 2255 UTC, where both May's regions, ARs 2740 and 2741 have come into view from the east limb.

**Congratulations to CV-103 STEEN, OCTAAF  
who passed 5000 CV-observations on 31 May 2019!**

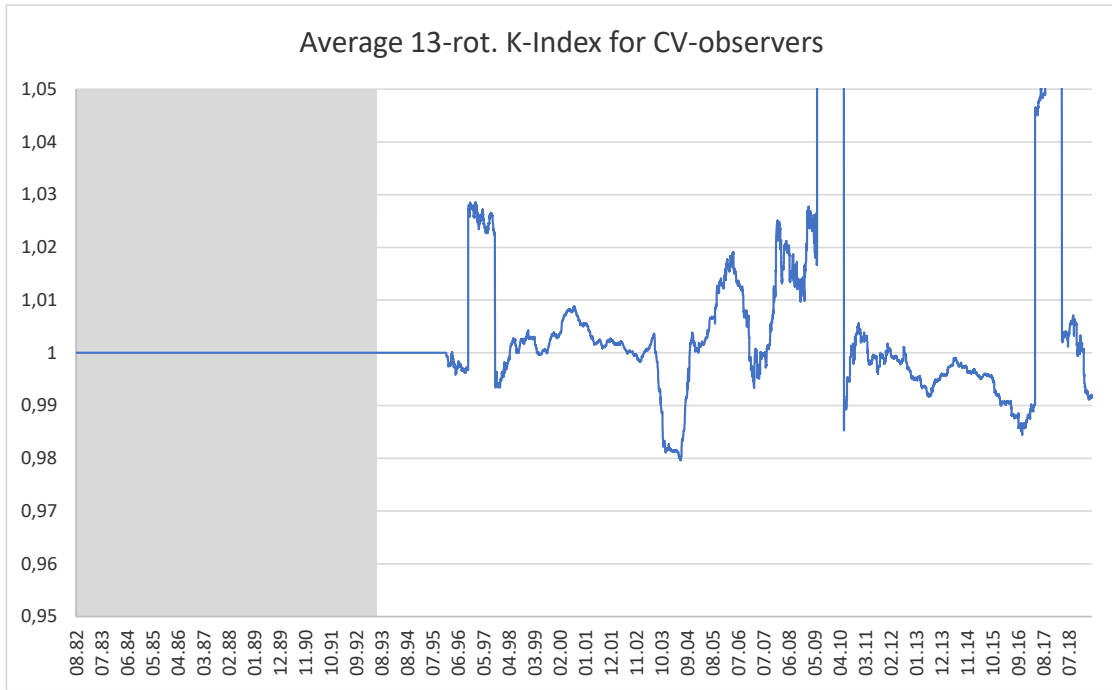
New member:

**CV-213 LAURENT, DIRK  
BELGIUM  
Joined: 14.05.2019**

**Welcome to CV-Helios Network!**

We are now 47 active members (last 12 mo.)

**Please check out [www.cv-helios.net/cvrep2.html](http://www.cv-helios.net/cvrep2.html) for updates of files!**



K-Index normally reaches higher levels around minimum-periods

Below the graph, there are several horizontal bars of varying lengths and colors, including light orange, dark orange, and brown, arranged in a structured layout.



**CV-Helios Network**  
**- over 36 years in solar amateur astronomy service!**

There are now 11073 entries registered  
containing 176229 CV-observations!

**This MPR issued 15th June 2019**



**CV-Helios Network**

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**<https://www.cv-helios.net>**

(NOTE! from Dec 2018 a **SECURE** site)

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: 15.06.2019 05:41 UTC