

# Monthly Preliminary Report

## MPR



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Volume 39 Number 8

MPR no. 457

August 2019

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## CV-Helios Network

Monthly Preliminary Report for August 2019

Solar Cycle 24: Month no. 130

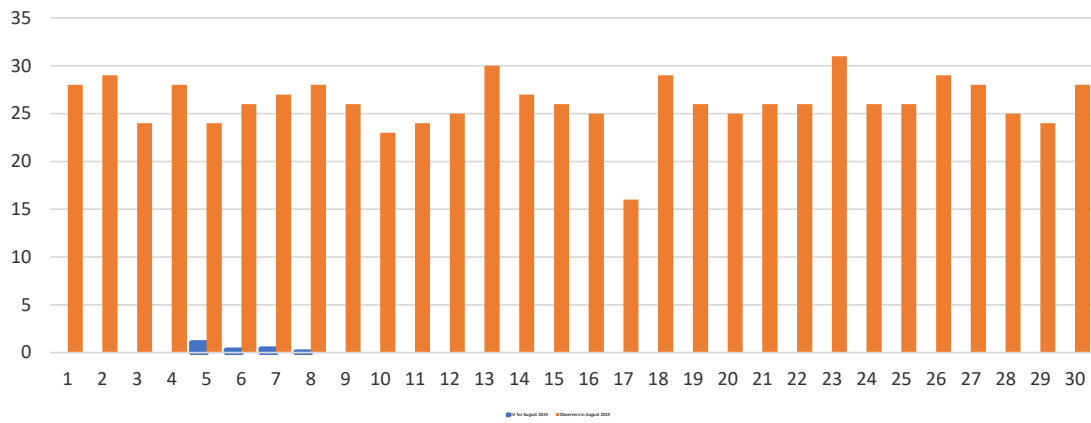
Report id.: cv1908 - CV-report no.: 457

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	0,1	22	1,625	8315
CV-009	BRAUCKHOFF, DIETER	GERMANY	0,1	29	1,849	1083
CV-010	DUBOIS, FRANKY	BELGIUM	0,1	29	1,849	8489
CV-019	JUNKER, ELMAR	GERMANY	0,0	5	0,000	3354
CV-020	HOLL, MANFRED	GERMANY	0,0	27	0,000	5303
CV-021	BARNES, HOWARD	NEW ZEALAND	0,0	10	0,000	4233
CV-022	VIERTEL, ANDREAS	GERMANY	0,0	22	0,000	5517
CV-023	BRETSCHNEIDER, HAR	GERMANY	0,0	25	0,000	4869
CV-038	MORALES, GERMAN	BOLIVIA	0,0	31	0,000	6919
CV-041	ROTHERMEL, JENS	GERMANY	0,1	10	1,788	1050
CV-044	SCHRÖDER, GERD	GERMANY	0,0	12	0,000	4245
CV-068	THIMM, SVEN OVE	DENMARK	0,0	9	0,000	3569
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	0,1	25	1,430	2864
CV-080	JANSSENS, JAN	BELGIUM	0,0	4	0,000	1009
CV-082	URBANSKI, PIOTR	POLAND	0,0	27	0,000	4587
CV-086	TOS-POLAND	POLAND	0,1	31	1,730	7234
CV-091	DALEK, GRZEGORZ	POLAND	0,0	24	0,000	3971
CV-102	MOSER, PAULO ROBER	BRAZIL	0,0	29	0,000	2177
CV-103	STEEN, OCTAAF	BELGIUM	0,1	30	1,788	5090
CV-105	RYBACK, ALEXEY	RUSSIA	0,0	5	0,000	2866
CV-107	LEVENTHAL, MONTY	AUSTRALIA	0,0	23	0,777	4149
CV-116	BJERKGÅRD, TERJE	NORWAY	0,0	6	0,000	891
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	0,1	22	1,625	2369
CV-135	ARAUJO, GEMA	SPAIN	0,1	31	1,153	6041
CV-136	GARCÍA, FAUSTINO	SPAIN	0,1	19	0,941	3160

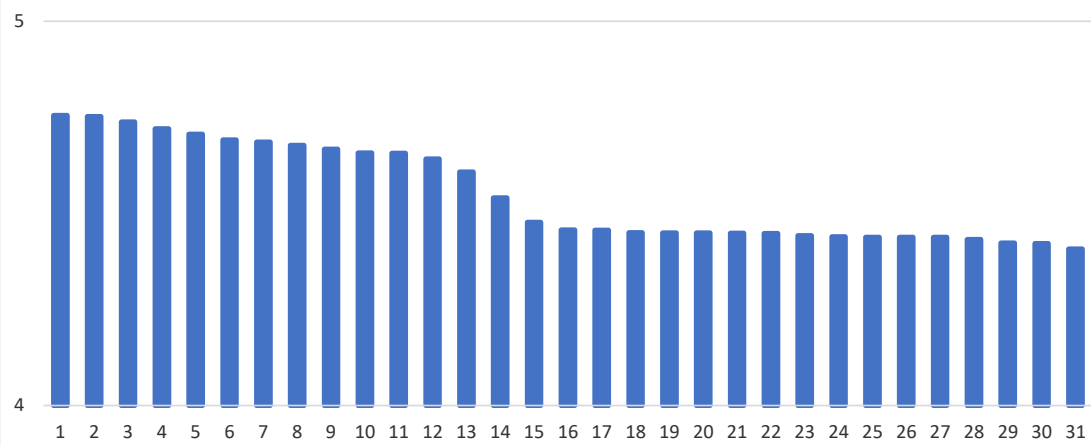
<b>Volume 39 Number 8</b>		<b>MPR no. 457</b>		<b>August 2019</b>		<b>ISSN 2535-3780</b>	
<b>Memno.</b>	<b>Name</b>	<b>Country</b>	<b>CV</b>	<b>Obs</b>	<b>K</b>	<b>Obs. Tot.</b>	
CV-139	ALONSO, JAVIER	SPAIN	0,1	31	1,153	3261	
CV-151	CARELS, JEFFREY	BELGIUM	0,1	28	1,916	2455	
CV-177	BACKER, HENDRIK DE	BELGIUM	0,1	31	1,730	1392	
CV-181	DERDZIKOWSKI, ADAM	POLAND	0,1	9	1,986	867	
CV-201	BASU, SANTANU	INDIA	0,0	17	0,000	285	
CV-203	DEMEULENAERE, IVO	BELGIUM	0,1	24	1,490	359	
CV-204	MEISTER, STEFAN	SWITZERLAND	0,1	16	2,235	250	
CV-205	MANGELSDORF, TOM	UNITED STATES	0,0	2	0,000	22	
CV-206	FIGIEL, TADEUSZ	POLAND	0,0	1	0,000	126	
CV-207	ONDREJOV OBS. (AI CA	CZECH REPUBLIC	0,2	22	4,063	4962	
CV-208	NEYS, JOHAN	BELGIUM	0,0	21	0,000	227	
CV-209	MORAES, CAIO CRESPO	BRAZIL	0,0	5	0,000	500	
CV-210	BOURGEOIS, JEAN	BELGIUM	0,0	19	0,000	378	
CV-211	CEUNINCK, EDWIN DE	BELGIUM	0,1	29	1,849	245	
CV-212	ZAPATA MORALES, ANTONIO	SPAIN	0,0	31	0,000	141	
CV-213	LAURENT, DIRK	BELGIUM	0,0	20	0,000	119	
<b>Totals</b>	<b>Observers</b>	<b>Days</b>	<b>CV</b>	<b>No</b>	<b>K</b>		
	<b>41</b>	<b>31</b>	<b>0,04</b>	<b>813</b>	<b>0,804</b>		

Volume 39 Number 8		MPR no. 457		August 2019		ISSN 2535-3780	
<b>Results</b>							*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	6,88	4,76	
2	0,00	29	0	0,00	6,88	4,75	
3	0,00	24	0	0,00	6,86	4,74	
4	0,00	28	0	0,00	6,85	4,72	
5	1,04	24	0	0,74	6,84	4,71	
6	0,27	26	0	0,19	6,85	4,69	
7	0,37	27	0	0,26	6,86	4,69	
8	0,07	28	0	0,05	6,86	4,68	
9	0,00	26	0	0,00	6,86	4,67	
10	0,00	23	0	0,00	6,86	4,66	
11	0,00	24	0	0,00	6,86	4,66	
12	0,00	25	0	0,00	6,85	4,64	
13	0,00	30	0	0,00	6,82	4,61	
14	0,00	27	0	0,00	6,80	4,54	
15	0,00	26	0	0,00	6,79	4,48	
16	0,00	25	0	0,00	6,77	4,46	
17	0,00	16	0	0,00	6,71	4,46	
18	0,00	29	0	0,00	6,65	4,45	
19	0,00	26	0	0,00	6,61	4,45	
20	0,00	25	0	0,00	6,59	4,45	
21	0,00	26	0	0,00	6,56	4,45	
22	0,00	26	0	0,00	6,55	4,45	
23	0,00	31	0	0,00	6,53	4,44	
24	0,00	26	0	0,00	6,52	4,44	
25	0,00	26	0	0,00	6,51	4,44	
26	0,00	29	0	0,00	6,49	4,44	
27	0,00	28	0	0,00	6,47	4,44	
28	0,00	25	0	0,00	6,47	4,43	
29	0,00	24	0	0,00	6,44	4,42	
30	0,00	28	0	0,00	6,38	4,42	
31	0,00	28	0	0,00	6,25	4,41	
Totals/ Avrgs	<b>0,06</b>	<b>26,2</b>	<b>0,10</b>	<b>0,05</b>	<b>6,46</b>	<b>16,13</b>	

### CV and CV observers



### CV-13 rot. per August 2019



**Solar Region Summary for August 2019**

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

2747-06.08.19-06.08.19-N06-199-2220-0-0-1,0-AXX-0-0-0-0-0-

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**:Product: Weekly Highlights and Forecasts**

:Issued: 2019 Sep 09 0301 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

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Highlights of Solar and Geomagnetic Activity

02 - 08 September 2019

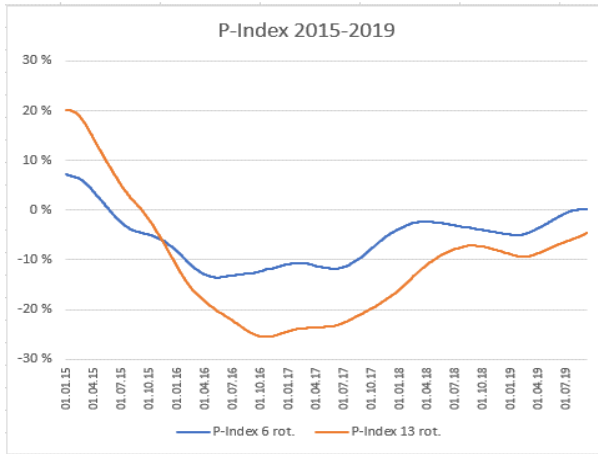
Solar activity was at very low levels. Region 2748 (N14, L=205, class/area Hsx/020 on 02 Sep) was quiet and stable and decayed to plage on 03 Sep. No Earth-directed CMEs were observed.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at very high levels on 02-04 Sep and high levels on 05-08 Sep. Electron flux reached a maximum of 87,900 pfu at 04/1835 UTC.

Geomagnetic field activity ranged from quiet to G1 (minor) storm levels on 02 Sep due to effects from a large, recurrent, positive polarity CH HSS. From 03-06 Sep, quiet to active levels were observed as HSS effects continued. Quiet to unsettled levels were observed from 07-08 Sep. Wind speeds began the period near 750 km/s, but slowly decayed to end the period near 400 km/s.

**Image Reports**



**August 2019's regions**

August 2019 with only two tiny groups. Regions 2745 and 2747 only reached small classes BXO and AXX respectively and only stayed on disk 2 days. Latitude was close to solar equator and they both belong to solar cycle 24.

The next solar cycle, no. 25, expected to commence from March 2020.



circled:  
**SOHO 20190805\_1030\_hmiigr\_1024**  
**Solar disk on August 05 at 1030 UTC showing Region 2745**

Dr Patrick S McIntosh sometime in the late 1980s wrote that he discovered there seems a significant drop in solar activity occurring about 3,5 years before minimum.

The P-Index developed by K I Malde to try and document this, found a strong agreement.

The P-Index had its lowest score on 13-rot. averages on the first half of October 2016, which then agrees very much to a Minimum in the start of April 2020, - next year!

[Awards this month](#)

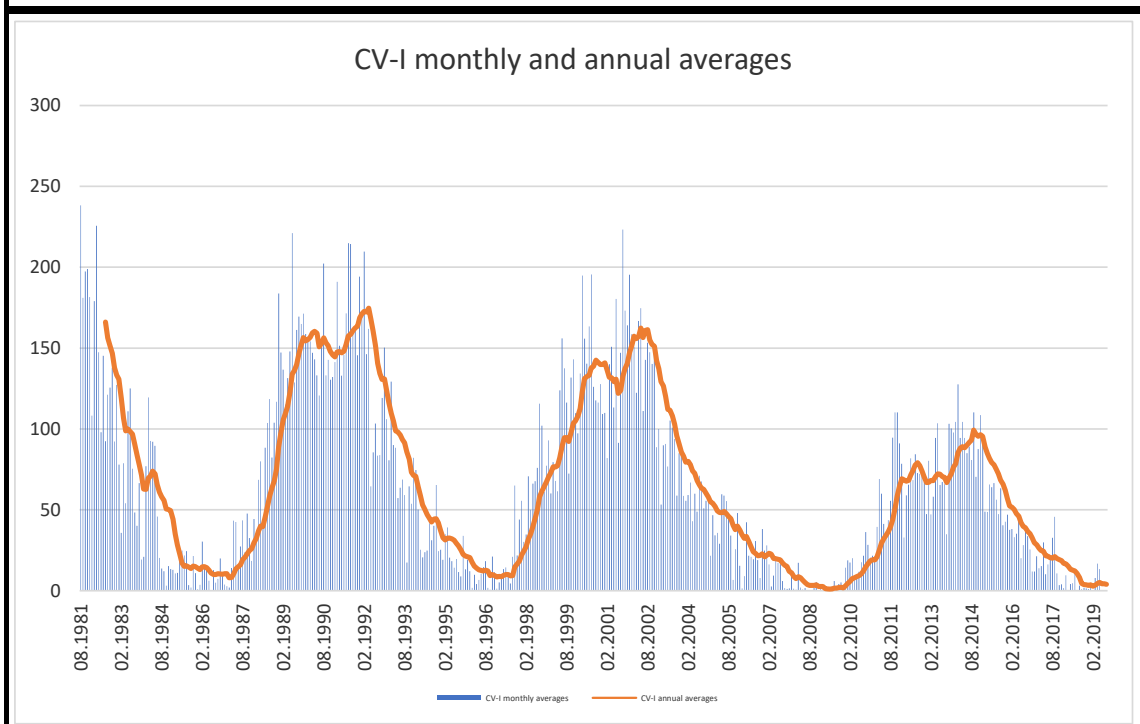
0

[New member:](#)

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!**

**MINIMUM Cycle 24/25** is expected to occur between November 2019/May 2020. Latest: Predicted minimum April 2020. Value: Approx. 2008/2009 low values.



### Solar Coordinates

Daily list of Solar Ephemeris for 2019 available at:

<https://www.cv-helios.net/helio2019/>

Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec. for the year 2019.

Comes with tilted Stoneyhurst-chart to use for observations!

### Calculating CV

For your convenience and security, use the mif2002,

<https://www.cv-helios.net/mif2002.xls>

the Monthly Input Form, which you can use for all of your next reportings!

Note! A new .php script is going to be launched this year, instead of the old, outdated and insecure .cgi that has been used for about 17 years.

### 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:

<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](mailto:cvhelios@gmail.com)

**SUBMISSIONS OF CV-OBSERVATIONS**

**Please note: We have improved! Please note the SECURE site "https" !**

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

We now use php-scripts that are safer!

Submission before 15th of proceeding month 18:00 UTC.

MPR issue 15th of month 2000 UTC. Good luck CV-observing!



**Per August 2019: Registration time average last 40 entries: 15 hours 33 minutes**

## CV-Helios Network

**- over 36 years in solar amateur astronomy service!**

There are now 11197 entries registered  
containing 178682 CV-observations!

**This MPR issued 15th September 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: 15.09.2019 18:16 UTC