

Monthly Preliminary Report

MPR



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CV-Helios Network

Monthly Preliminary Report for September 2019

Solar Cycle 24: Month no. 131

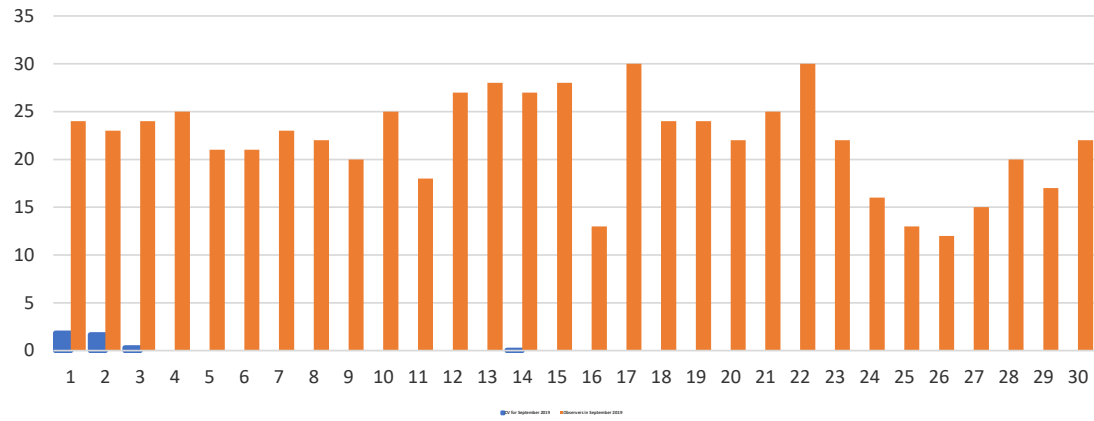
Report id.: cv1909 - CV-report no.: 458

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	0,5	22	3,771	8337
CV-009	BRAUCKHOFF, DIETER	GERMANY	0,5	26	3,481	1109
CV-010	DUBOIS, FRANKY	BELGIUM	0,1	23	0,984	8512
CV-019	JUNKER, ELMAR	GERMANY	0,0	8	0,000	3362
CV-020	HOLL, MANFRED	GERMANY	0,0	15	0,000	5318
CV-021	BARNES, HOWARD	NEW ZEALAND	0,0	13	0,000	4246
CV-022	VIERTEL, ANDREAS	GERMANY	0,0	14	0,000	5531
CV-023	BRETSCHNEIDER, HAR	GERMANY	0,1	25	0,603	4894
CV-038	MORALES, GERMAN	BOLIVIA	0,0	28	0,269	6947
CV-041	ROTHERMEL, JENS	GERMANY	0,0	9	0,000	1059
CV-068	THIMM, SVEN OVE	DENMARK	0,0	6	0,000	3575
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	0,2	20	1,508	2884
CV-080	JANSSENS, JAN	BELGIUM	0,0	5	0,000	1014
CV-082	URBANSKI, PIOTR	POLAND	0,1	24	0,629	4611
CV-086	TOS-POLAND	POLAND	0,2	30	1,508	7264
CV-091	DALEK, GRZEGORZ	POLAND	0,1	17	0,444	3988
CV-103	STEEN, OCTAAF	BELGIUM	0,1	26	0,870	5116
CV-105	RYBACK, ALEXEY	RUSSIA	0,0	10	0,000	2876
CV-107	LEVENTHAL, MONTY	AUSTRALIA	0,2	18	1,676	4167
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	0,1	18	0,838	2387
CV-135	ARAUJO, GEMA	SPAIN	0,2	30	1,760	6071
CV-136	GARCÍA, FAUSTINO	SPAIN	0,0	22	0,343	3182
CV-139	ALONSO, JAVIER	SPAIN	0,0	23	0,328	3284
CV-151	CARELS, JEFFREY	BELGIUM	0,2	24	1,257	2479
CV-171	MALUF, WALTER JOSE	BRAZIL	0,0	19	0,000	1999

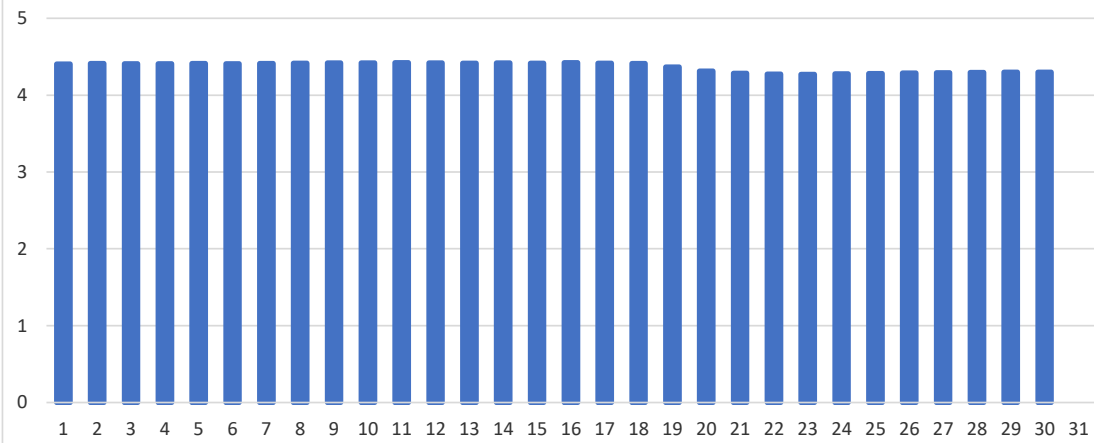
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Memno.	Name	Country	CV	Obs	K	Obs. Tot.	
CV-177	BACKER, HENDRIK DE	BELGIUM	0,1	27	0,838	1419	
CV-181	DERDZIKOWSKI, ADAM	POLAND	0,0	10	0,000	877	
CV-201	BASU, SANTANU	INDIA	0,0	24	0,000	309	
CV-203	DEMEULENAERE, IVO	BELGIUM	0,2	20	1,508	379	
CV-204	MEISTER, STEFAN	SWITZERLAND	0,0	15	0,000	265	
CV-205	MANGELSDORF, TOM	UNITED STATES	0,0	2	0,000	24	
CV-206	FIGIEL, TADEUSZ	POLAND	1,0	7	7,542	133	
CV-207	ONDREJOV OBS. (AI CA	CZECH REPUBLIC	0,1	14	1,077	4976	
CV-208	NEYS, JOHAN	BELGIUM	0,3	10	2,263	237	
CV-209	MORAES, CAIO CRESPO	BRAZIL	0,0	4	0,000	504	
CV-210	BOURGEOIS, JEAN	BELGIUM	0,0	18	0,000	396	
CV-211	CEUNINCK, EDWIN DE	BELGIUM	0,2	23	1,312	268	
CV-213	LAURENT, DIRK	BELGIUM	0,3	12	1,886	131	
Totals	Observers	Days	CV	No	K		
	38	30	0,13	661	0,966		

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Results				*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	1,83	24	2	0,12	6,12	4,41	
2	1,65	23	10	5,90	5,85	4,41	
3	0,29	24	0	0,21	5,66	4,41	
4	0,00	25	0	0,00	5,57	4,41	
5	0,00	21	0	0,00	5,58	4,41	
6	0,00	21	0	0,00	5,58	4,41	
7	0,00	23	0	0,00	5,57	4,41	
8	0,00	22	0	0,00	5,57	4,42	
9	0,00	20	0	0,00	5,58	4,42	
10	0,00	25	0	0,00	5,58	4,42	
11	0,00	18	0	0,00	5,58	4,42	
12	0,00	27	0	0,00	5,52	4,42	
13	0,00	28	0	0,00	5,46	4,42	
14	0,04	27	0	0,03	5,43	4,42	
15	0,00	28	0	0,00	5,43	4,42	
16	0,00	13	0	0,00	5,44	4,42	
17	0,00	30	0	0,00	5,44	4,42	
18	0,00	24	0	0,00	5,23	4,41	
19	0,00	24	0	0,00	5,06	4,37	
20	0,00	22	0	0,00	4,87	4,31	
21	0,00	25	0	0,00	4,64	4,29	
22	0,00	30	0	0,00	4,43	4,27	
23	0,00	22	0	0,00	4,20	4,27	
24	0,00	16	0	0,00	3,99	4,28	
25	0,00	13	0	0,00	3,79	4,28	
26	0,00	12	0	0,00	3,51	4,29	
27	0,00	15	0	0,00	3,24	4,29	
28	0,00	20	0	0,00	3,01	4,30	
29	0,00	17	0	0,00	2,70	4,30	
30	0,00	22	0	0,00	2,45	4,30	
Totals/ Avrgs	0,13	22,0	0,39	0,21	4,87	4,37	

CV and CV observers



CV-13 rot. per September 2019



Solar Region Summary for September 2019

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

2748-01.09.19-02.09.19-N14-205-2220-10-3-2,0-BXO-0-0-0-0-0-0-0-0-0-0-0-

:Product: Weekly Highlights and Forecasts

:Issued: 2019 Oct 14 0407 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

07 - 13 October 2019

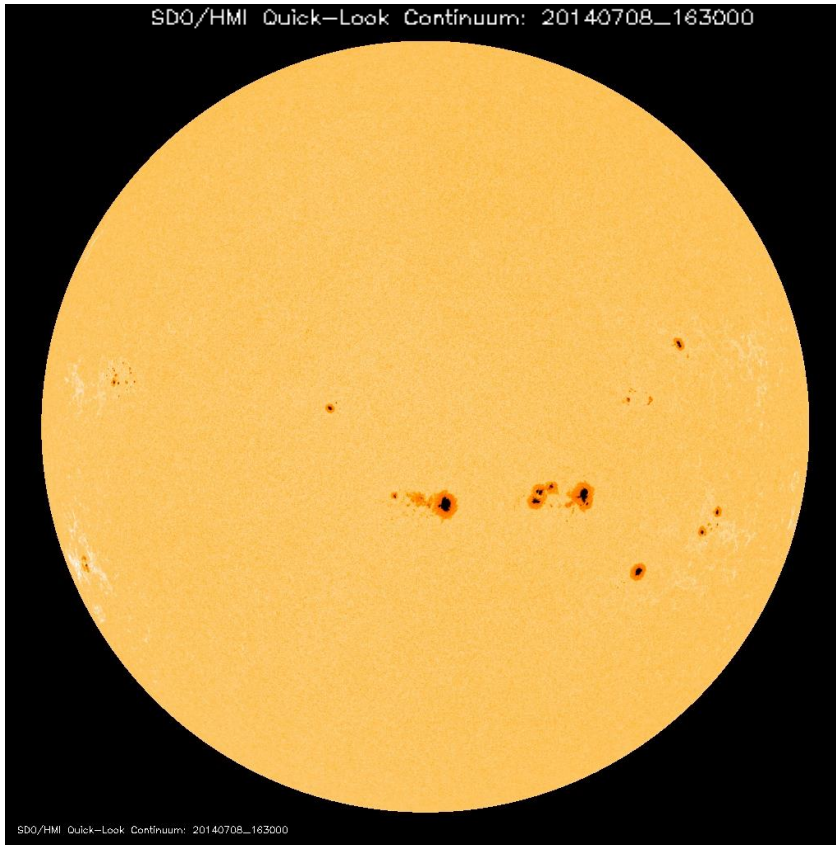
Solar activity was very low. The solar disk was spotless. No Earth-directed coronal mass ejections (CMEs) were observed.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at moderate levels on 08-13 Oct and at high levels on 07 Oct. The maximum flux of the period was 1,930 pfu observed at 07/1745 UTC.

Geomagnetic field activity ranged from quiet to active levels. The period started off at nominal levels with solar wind speeds in the 350-405 km/s range. by 09 Oct, total field increased to 11 nT at 09/2135 UTC followed by an increase in solar wind speed to approximately 490 km/s as a weak negative polarity coronal hole high speed stream (CH HSS) moved into geoeffective position. Solar wind speed remained enhanced through late on 11 Oct. The geomagnetic field responded with quiet to active conditions on 09-10 Oct and

Image Reports



Down Memory Lane: According to CV-Int. the most active day of Solar Cycle 24, 2014 July 08. CV=215,8. From center to west, you can see regions 2109 and 2108 respectively.

[Awards this month](#)

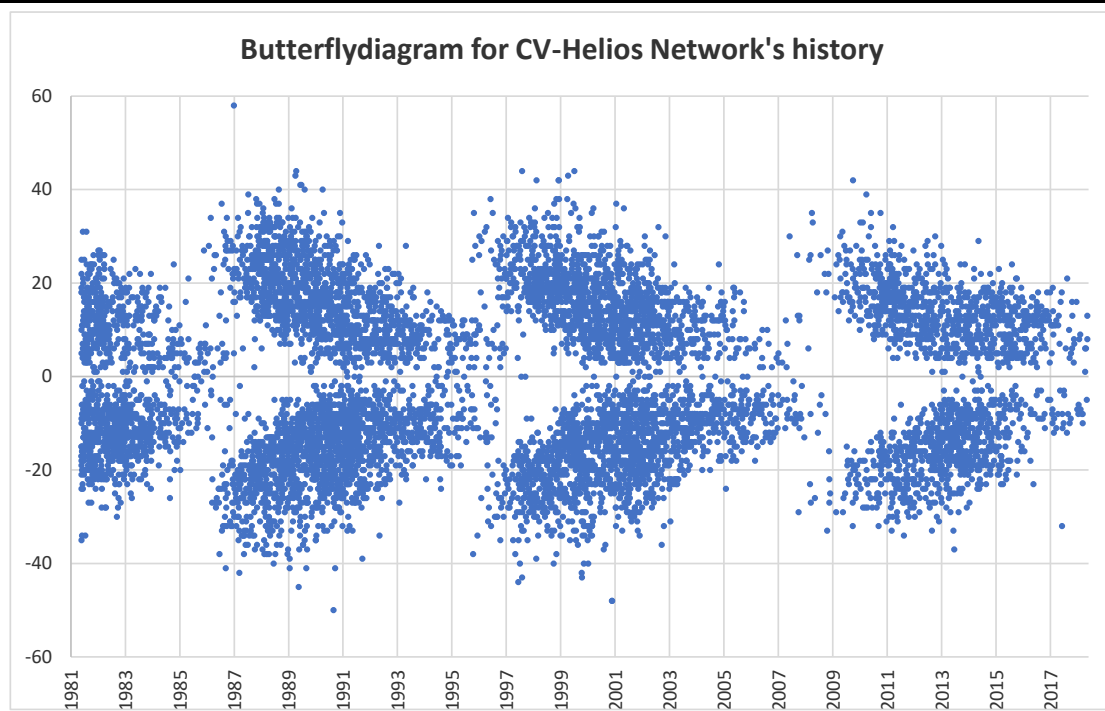
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[New member:](#)

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

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

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 unsecure .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

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 September 2019: Registration time average last 40 entries: 11 hours 30 minutes

CV-Helios Network

- over 36 years in solar amateur astronomy service!

There are now 11235 entries registered
containing 179343 CV-observations!

This MPR issued 15th October 2019



CV-Helios Network

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(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: 16.10.2019 13:26 UTC