

# Monthly Preliminary Report

## MPR



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MPR 449

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## CV-Helios Network

Monthly Preliminary Report for December 2018

Solar Cycle 24: Month no. 122

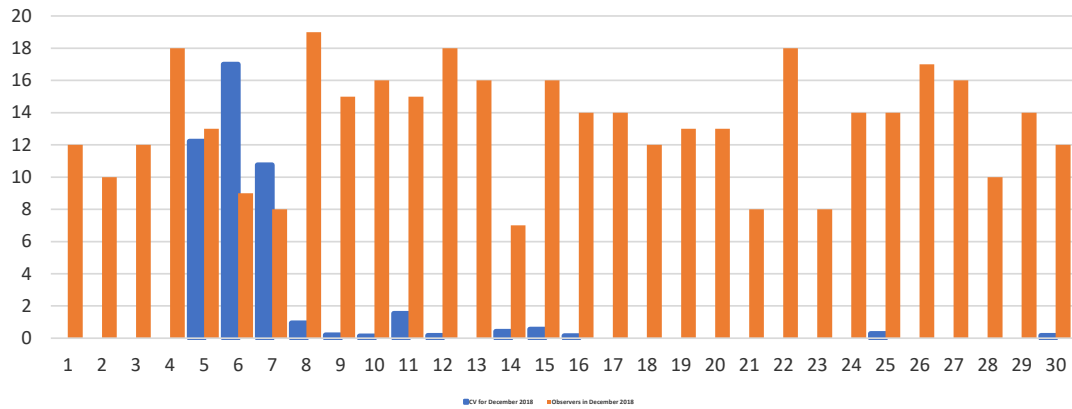
Report id.: cv1812.xls - CV-report no.: 449

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	0,4	14	0,304	8150
CV-009	BRAUCKHOFF, DIETER	GERMANY	0,8	15	0,682	881
CV-010	DUBOIS, FRANKY	BELGIUM	0,1	22	0,078	8285
CV-019	JUNKER, ELMAR	GERMANY	0,0	1	0,000	3284
CV-020	HOLL, MANFRED	GERMANY	0,0	3	0,000	5144
CV-021	BARNES, HOWARD	NEW ZEALAND	1,8	12	1,563	4122
CV-022	VIERTEL, ANDREAS	GERMANY	0,0	2	0,000	5405
CV-023	BRETSCHNEIDER, HAR	GERMANY	1,3	8	1,066	4726
CV-038	MORALES, GERMAN	BOLIVIA	2,8	22	2,364	6701
CV-040	BATTAIOLA, ROBERTO	ITALY	4,8	4	4,050	1717
CV-044	SCHRÖDER, GERD	GERMANY	0,0	4	0,000	4113
CV-068	THIMM, SVEN OVE	DENMARK	0,0	2	0,000	3494
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	0,3	15	0,284	2726
CV-080	JANSSENS, JAN	BELGIUM	0,0	2	0,000	982
CV-082	URBANSKI, PIOTR	POLAND	0,2	9	0,189	4408
CV-086	TOS-POLAND	POLAND	1,6	31	1,375	6991
CV-091	DALEK, GRZEGORZ	POLAND	1,3	6	1,137	3810
CV-103	STEEN, OCTAAF	BELGIUM	0,3	20	0,256	4882
CV-104	MEEUS, LIEVE	BELGIUM	0,4	5	0,341	2185
CV-105	RYBACK, ALEXEY	RUSSIA	0,0	2	0,000	2788
CV-107	LEVENTHAL, MONTY	AUSTRALIA	1,8	22	1,550	3987
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	0,3	8	0,213	2195
CV-135	ARAUJO, GEMA	SPAIN	2,0	24	1,670	5798
CV-139	ALONSO, JAVIER	SPAIN	0,2	20	0,171	3106
CV-151	CARELS, JEFFREY	BELGIUM	0,2	14	0,183	2279

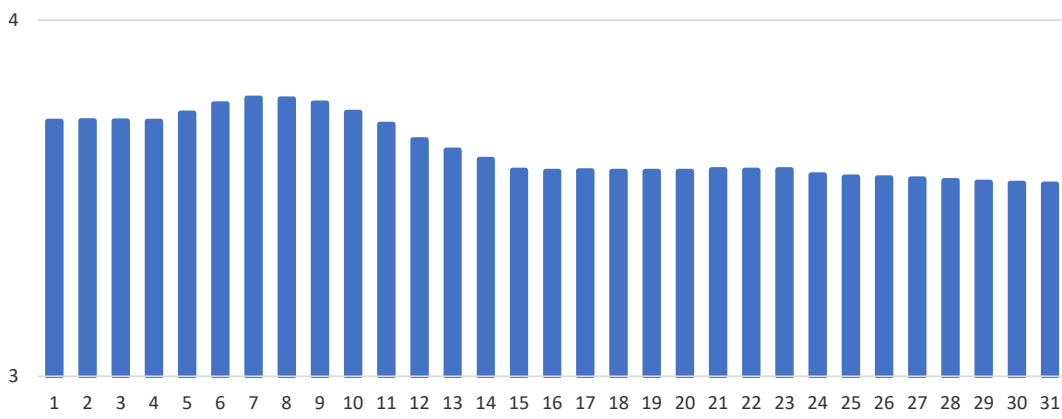
<b>Volume 39 Number 12</b>		<b>MPR 449</b>	<b>December 2018</b>	<b>ISSN 2535-3780</b>		
<b>Memno.</b>	<b>Name</b>	<b>Country</b>	<b>CV</b>	<b>Obs</b>	<b>K</b>	<b>Obs. Tot.</b>
CV-171	MALUF, WALTER JOSE	BRAZIL	6,5	20	5,499	1838
CV-177	BACKER, HENDRIK DE	BELGIUM	0,2	20	0,128	1176
CV-189	HESSCHE, DIRK VAN	BELGIUM	0,0	2	0,000	227
CV-202	ZAMORA, JORDI	SPAIN	0,7	29	0,617	665
CV-203	DEMEULENAERE, IVO	BELGIUM	0,1	15	0,114	195
CV-206	FIGIEL, TADEUSZ	POLAND	0,0	1	0,000	90
CV-207	ONDREJOV OBSERVAT	CZECH REPUBLIC	2,5	2	2,131	4830
CV-208	NEYS, JOHAN	BELGIUM	0,0	4	0,000	125
CV-209	MORAES, CAIO CRESPO	BRAZIL	0,6	10	0,512	422
CV-210	BOURGEOIS, JEAN	BELGIUM	0,2	9	0,189	221
CV-211	CEUNINCK, EDWIN DE	BELGIUM	0,4	12	0,355	98
<b>Totals</b>	<b>Observers</b> <b>36</b>	<b>Days</b> <b>31</b>	<b>CV</b> <b>0,88</b>	<b>No</b> <b>411</b>	<b>K</b> <b>0,751</b>	

Volume 39 Number 12		MPR 449		December 2018		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	12	0	0,00	2,81	3,72	
2	0,00	10	0	0,00	2,35	3,72	
3	0,00	12	0	0,00	1,93	3,72	
4	0,00	18	0	0,00	1,61	3,72	
5	12,23	13	0	8,65	1,52	3,74	
6	17,00	9	5	8,49	1,50	3,76	
7	10,75	8	5	4,07	1,48	3,78	
8	0,95	19	2	0,74	1,49	3,78	
9	0,20	15	2	1,27	1,49	3,77	
10	0,13	16	2	1,33	1,50	3,74	
11	1,53	15	0	1,08	1,51	3,71	
12	0,17	18	1	0,59	1,52	3,66	
13	0,00	16	0	0,00	1,53	3,64	
14	0,43	7	0	0,30	1,54	3,61	
15	0,56	16	2	1,02	1,54	3,58	
16	0,14	14	1	0,61	1,55	3,58	
17	0,00	14	0	0,00	1,55	3,58	
18	0,00	12	0	0,00	1,56	3,58	
19	0,00	13	0	0,00	1,57	3,58	
20	0,00	13	0	0,00	1,58	3,58	
21	0,00	8	0	0,00	1,58	3,58	
22	0,00	18	0	0,00	1,58	3,58	
23	0,00	8	0	0,00	1,59	3,58	
24	0,00	14	0	0,00	1,59	3,57	
25	0,29	14	0	0,20	1,60	3,56	
26	0,00	17	0	0,00	1,60	3,56	
27	0,00	16	0	0,00	1,61	3,55	
28	0,00	10	0	0,00	1,61	3,55	
29	0,00	14	0	0,00	1,62	3,54	
30	0,17	12	0	0,12	1,63	3,54	
31	0,60	10	0	0,42	1,63	3,54	
Totals/ Avrgs	<b>1,46</b>	<b>13,3</b>	<b>0,65</b>	<b>0,93</b>	<b>6,46</b>	<b>16,13</b>	

CV and CV observers



CV-13 rot. per December 2018



**Solar Region Summary for December 2018**

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

2729-05.12.18-09.12.18-S05-228-2211-30-4-3,2-CRO-CRO-BXO-BXO-BXO

2730-11.12.18-11.12.18-N08-94-2211-10-2-1,0-AXX

2731-14.12.18-15.12.18-N13-23-2211-10-5-1,5-BXO-AXX

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**:Product: Weekly Highlights and Forecasts**

:Issued: 2019 Jan 14 0403 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 January 2019

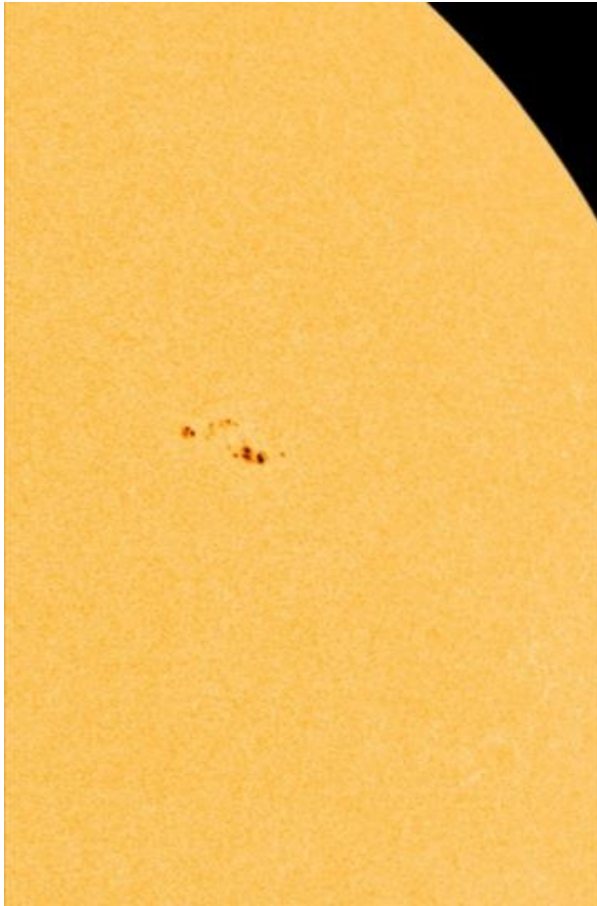
Solar activity was very low. The solar disk was spotless during the reporting period. No Earth-directed CMEs were observed.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reached high levels on 07-10 Jan and moderate levels on 11-13 Jan. The peak flux was 2,970 pfu observed at 07/2040 UTC.

Geomagnetic field activity ranged from quiet to active levels. Solar wind parameters began the period under waning negative polarity coronal hole high speed stream (CH HSS) effects. Solar wind speed began the period near 535 km/s, but diminished to near 345 km/s by 10/0720 UTC. Total field remained at 6 nT or less during this time. The geomagnetic field responded with quiet to unsettled levels on 07 Jan followed by quiet levels on 08-10 Jan. By late on 10 Jan, solar wind speed once again increased to near 515 km/s by 11/0435 UTC

Image Reports



New Year's surprise!

AR 2732 surprised us at the beginning of the new year!

This region belongs to the decaying solar cycle 24 and - as usual - it had a relatively short life, appearing west of the cm, and just barely made it to the western limb.

This region will also very doubtfully return to the eastern side of the sun next rotation.

The region produced no big threats for major flares.

No new Awards this month

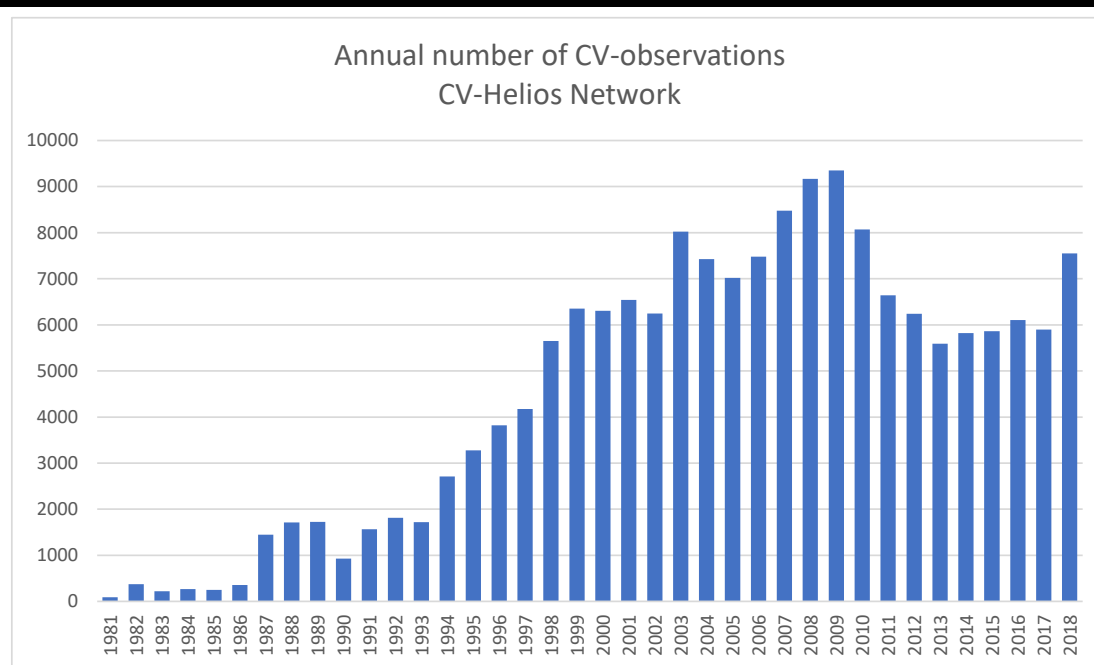
New member:

No new members this month

We are now 51 active members

**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.



Annual number of CV-observations have gone up 28% from 2017!

### Solar Coordinates

Daily list of Solar Ephemeris for 2018 available at:

<https://www.cv-helios.net/helio2018/>

Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec.  
for the year 2018.

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](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!



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

There are now 10878 entries registered  
containing 172944 CV-observations!

**This MPR issued 15th January 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: 15.01.2019 16:26 UTC