

# Monthly Preliminary Report

## MPR



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## CV-Helios Network

Monthly Preliminary Report for November 2018

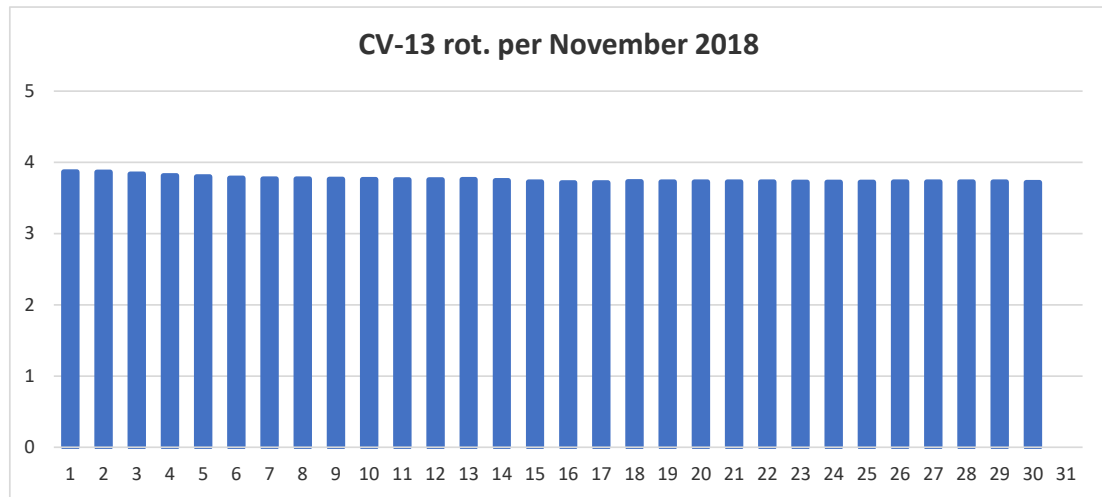
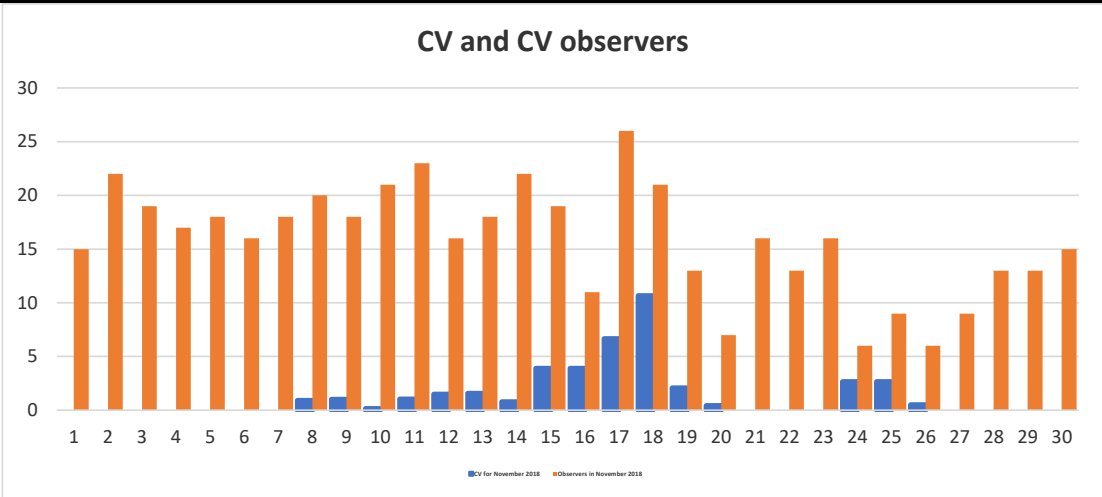
Solar Cycle 24: Month no. 121

Report id.: cv1811.xls - CV-report no.: 448

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	1,1	20	0,712	8136
CV-009	BRAUCKHOFF, DIETER	GERMANY	2,8	21	1,787	866
CV-010	DUBOIS, FRANKY	BELGIUM	1,5	20	0,938	8263
CV-019	JUNKER, ELMAR	GERMANY	0,4	7	0,277	3283
CV-020	HOLL, MANFRED	GERMANY	0,8	9	0,503	5141
CV-021	BARNES, HOWARD	NEW ZEALAND	0,1	11	0,059	4110
CV-022	VIERTEL, ANDREAS	GERMANY	0,4	10	0,259	5403
CV-023	BRETSCHNEIDER, HAR	GERMANY	1,3	12	0,863	4718
CV-038	MORALES, GERMAN	BOLIVIA	5,8	24	3,720	6679
CV-041	ROTHERMEL, JENS	GERMANY	5,0	7	3,234	989
CV-044	SCHRÖDER, GERD	GERMANY	0,1	11	0,059	4109
CV-068	THIMM, SVEN OVE	DENMARK	0,0	2	0,000	3492
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	1,3	13	0,846	2711
CV-080	JANSSENS, JAN	BELGIUM	3,0	2	1,941	980
CV-082	URBANSKI, PIOTR	POLAND	1,3	9	0,863	4399
CV-086	TOS-POLAND	POLAND	1,2	30	0,776	6960
CV-091	DALEK, GRZEGORZ	POLAND	0,5	11	0,294	3804
CV-103	STEEN, OCTAAF	BELGIUM	1,9	20	1,229	4862
CV-104	MEEUS, LIEVE	BELGIUM	1,0	5	0,647	2180
CV-105	RYBACK, ALEXEY	RUSSIA	2,5	4	1,617	2786
CV-107	LEVENTHAL, MONTY	AUSTRALIA	1,9	20	1,229	3965
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	1,6	12	1,024	2187
CV-135	ARAUJO, GEMA	SPAIN	1,9	29	1,227	5774
CV-139	ALONSO, JAVIER	SPAIN	1,6	17	1,027	3086
CV-151	CARELS, JEFFREY	BELGIUM	0,9	13	0,597	2265



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<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	15	0	0,00	3,91	3,87	
2	0,00	22	0	0,00	3,89	3,86	
3	0,00	19	0	0,00	3,83	3,84	
4	0,00	17	0	0,00	3,73	3,81	
5	0,00	18	0	0,00	3,63	3,80	
6	0,00	16	0	0,00	3,55	3,78	
7	0,00	18	0	0,00	3,50	3,77	
8	0,90	20	0	0,64	3,43	3,77	
9	1,00	18	0	0,71	3,34	3,76	
10	0,14	21	0	0,10	3,28	3,76	
11	1,04	23	0	0,74	3,19	3,76	
12	1,50	16	0	1,06	3,13	3,76	
13	1,56	18	2	0,31	3,09	3,76	
14	0,77	22	1	0,16	3,09	3,75	
15	3,89	19	1	2,05	3,11	3,72	
16	3,91	11	5	0,77	3,13	3,71	
17	6,65	26	2	3,29	3,17	3,71	
18	10,67	21	8	1,89	3,23	3,73	
19	2,08	13	8	4,19	3,24	3,73	
20	0,43	7	1	0,40	3,26	3,73	
21	0,00	16	0	0,00	3,27	3,72	
22	0,00	13	0	0,00	3,27	3,72	
23	0,00	16	0	0,00	3,27	3,72	
24	2,67	6	0	1,89	3,26	3,72	
25	2,67	9	2	0,47	3,25	3,72	
26	0,50	6	2	1,06	3,25	3,72	
27	0,00	9	0	0,00	3,26	3,72	
28	0,00	13	0	0,00	3,26	3,73	
29	0,00	13	0	0,00	3,21	3,72	
30	0,00	15			3,11	3,72	
Totals/ Avrgs	<b>1,35</b>	<b>15,9</b>	<b>1,07</b>	<b>0,68</b>	<b>6,46</b>	<b>16,13</b>	



**Solar Region Summary for November 2018**

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

2726-12.11.18-14.11.18-N06-134-2209-10-4-1,3-BXO-AXX-AXX

2727-15.11.18-19.11.18-N01-111-2209-20-4-4,8-CRO-BXO-CAO-CAO-AXX

2728-24.11.18-25.11.18-N06-339-2211-20-3-2,0-BXO-BXO

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**:Product: Weekly Highlights and Forecasts**

:Issued: 2018 Dec 10 0222 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

03 - 09 December 2018

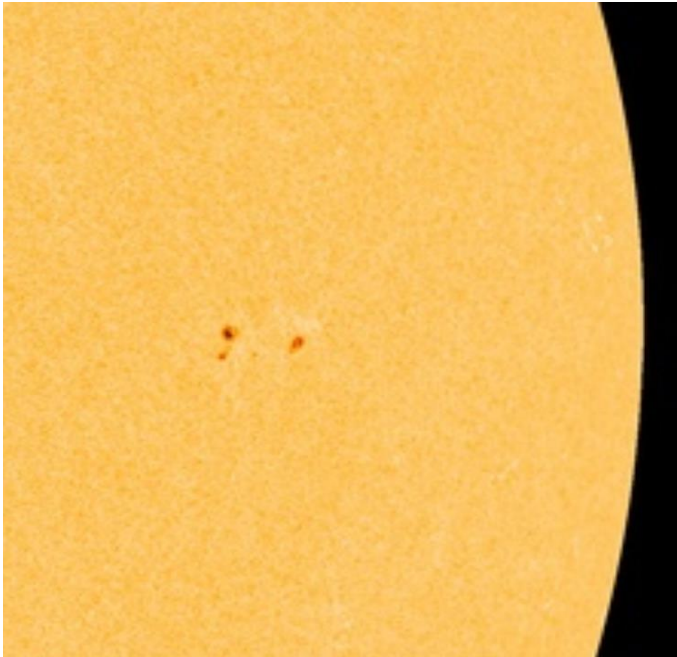
Solar activity was very low throughout the period. Region 2729 (S05, L=229, class/area=Cro/50 on 06 Dec) was the only region with sunspots and produced multiple low-level B-class flare late in the period. A CME associated with a filament eruption on 30 Nov was predicted to hit Earth on 05 Dec, but this event did not materialize.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reached moderate levels on 06, and 08-09 Dec and normal levels were observed throughout the remainder of the period.

Geomagnetic field activity reached active levels late on 09 Dec in response to coronal hole/high speed stream effects. Quiet and quiet to unsettled conditions were observed throughout the remainder of the period.

## Image Reports



Region 2727  
from SOHO on 2018 Nov 18  
taken at 09:22 UTC.

The tiny group reached  
only to a CAO and 60mVh  
in size.

Region 2727 was one out of  
only 3 regions to appear  
in November 2018  
and this telling us again  
that we are getting close  
to solar minimum.



We have again been provided older CV-observations from the periods 1985-1986 from Ondrejov Observatory and 277 more CV-obs. have been computed into CV-database. A sincere thanks to Martina Exnerova for the immense work she has performed!

**No new Awards this month**

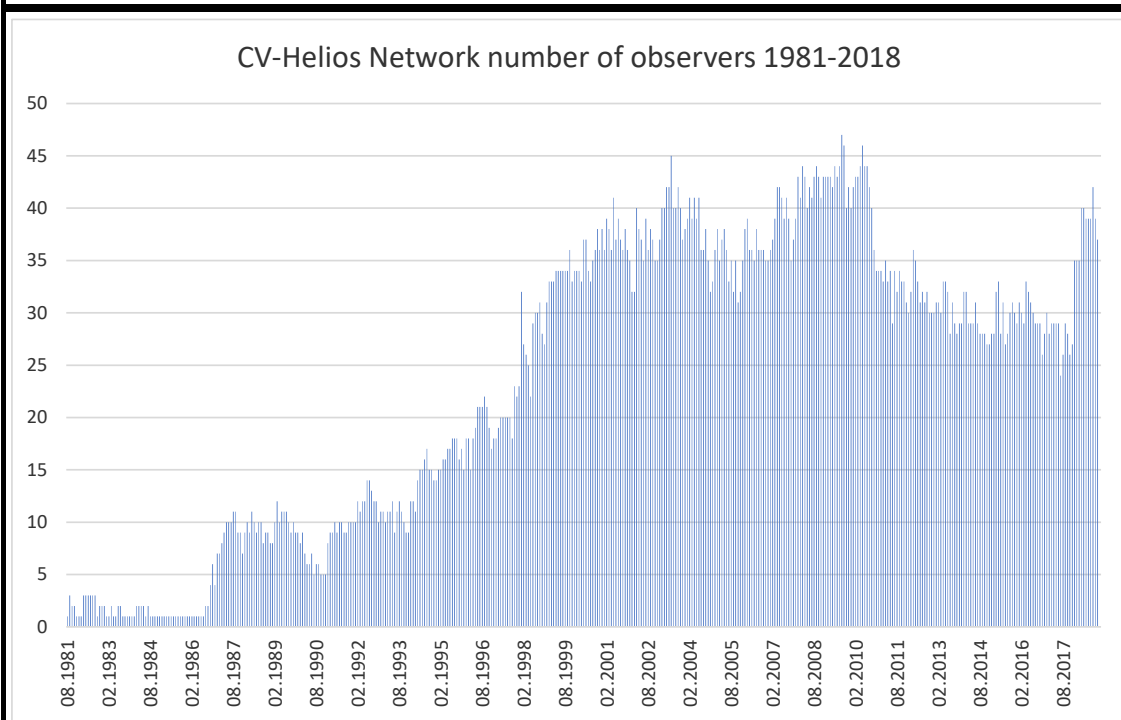
**New member:**

**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.



### 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 10842 entries registered  
containing 172533 CV-observations!

**This MPR issued 15th December 2018**



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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: 15.12.2018 18:17 UTC