

Monthly Preliminary Report

MPR



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CV-Helios Network

Monthly Preliminary Report for October 2018

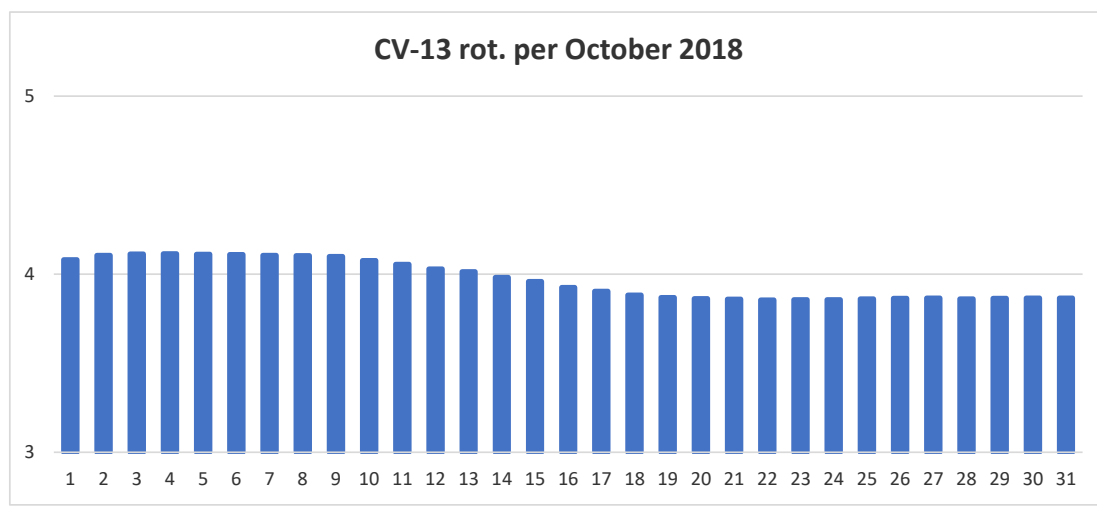
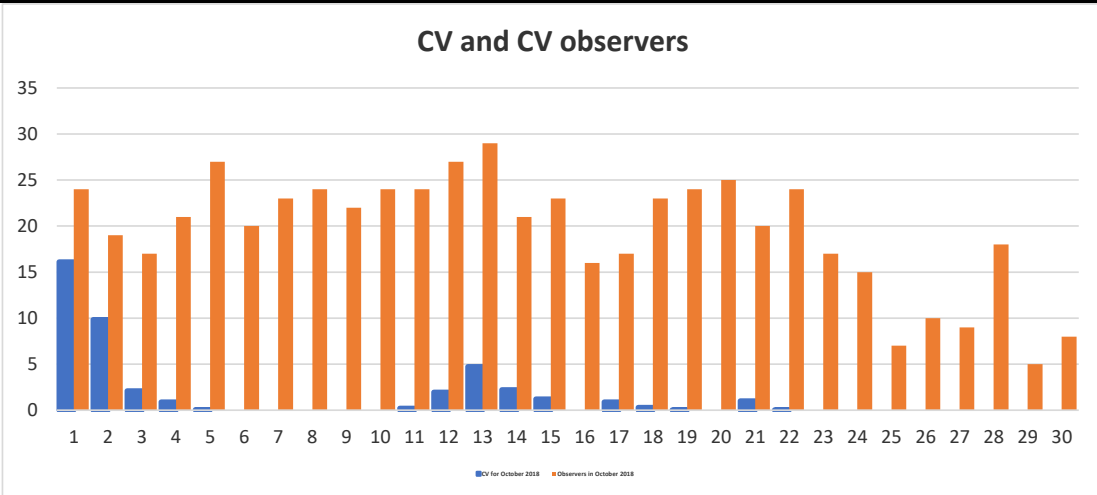
Solar Cycle 24: Month no. 120

Report id.: cv1810.xls - CV-report no.: 447

| Memno. | Name | Country | CV | Obs | K | Obs. Tot. |
|--------|--------------------|----------------|-----|-----|-------|-----------|
| CV-001 | MALDE, KJELL INGE | NORWAY | 2,4 | 19 | 1,479 | 8116 |
| CV-009 | BRAUCKHOFF, DIETER | GERMANY | 2,7 | 24 | 1,691 | 845 |
| CV-010 | DUBOIS, FRANKY | BELGIUM | 1,6 | 23 | 1,005 | 8243 |
| CV-019 | JUNKER, ELMAR | GERMANY | 0,0 | 6 | 0,000 | 3276 |
| CV-020 | HOLL, MANFRED | GERMANY | 1,9 | 19 | 1,183 | 5132 |
| CV-021 | BARNES, HOWARD | NEW ZEALAND | 2,4 | 19 | 1,479 | 4099 |
| CV-022 | VIERTEL, ANDREAS | GERMANY | 0,0 | 14 | 0,000 | 5393 |
| CV-023 | BRETSCHNEIDER, HAR | GERMANY | 0,5 | 16 | 0,312 | 4706 |
| CV-038 | MORALES, GERMAN | BOLIVIA | 2,4 | 19 | 1,479 | 6655 |
| CV-040 | BATTAIOLA, ROBERTO | ITALY | 0,3 | 4 | 0,156 | 1713 |
| CV-041 | ROTHERMEL, JENS | GERMANY | 0,4 | 5 | 0,250 | 982 |
| CV-044 | SCHRÖDER, GERD | GERMANY | 2,4 | 19 | 1,479 | 4098 |
| CV-068 | THIMM, SVEN OVE | DENMARK | 3,3 | 8 | 2,029 | 3490 |
| CV-077 | JOHNSTON, ANDREW | UNITED KINGDOM | 0,1 | 20 | 0,031 | 2698 |
| CV-080 | JANSSENS, JAN | BELGIUM | 2,4 | 19 | 1,479 | 978 |
| CV-086 | TOS-POLAND | POLAND | 1,7 | 31 | 1,068 | 6930 |
| CV-102 | MOSER, PAULO ROBER | BRAZIL | 3,7 | 3 | 2,290 | 2139 |
| CV-103 | STEEN, OCTAAF | BELGIUM | 1,3 | 27 | 0,786 | 4842 |
| CV-104 | MEEUS, LIEVE | BELGIUM | 4,0 | 8 | 2,498 | 2175 |
| CV-105 | RYBACK, ALEXEY | RUSSIA | 0,0 | 4 | 0,000 | 2782 |
| CV-107 | LEVENTHAL, MONTY | AUSTRALIA | 0,6 | 16 | 0,390 | 3945 |
| CV-116 | BJERKGÅRD, TERJE | NORWAY | 3,3 | 4 | 2,029 | 857 |
| CV-122 | FEIK, VLASTISLAV | CZECH REPUBLIC | 0,6 | 18 | 0,382 | 2175 |
| CV-135 | ARAUJO, GEMA | SPAIN | 1,4 | 30 | 0,895 | 5745 |
| CV-139 | ALONSO, JAVIER | SPAIN | 0,1 | 20 | 0,062 | 3069 |

| Volume 38 Number 10 | | MPR 447 | October 2018 | ISSN 2535-3780 | | |
|----------------------------|------------------------|-------------------|---------------------|-----------------------|-------------------|------------------|
| Memno. | Name | Country | CV | Obs | K | Obs. Tot. |
| CV-151 | CARELS, JEFFREY | BELGIUM | 2,3 | 22 | 1,448 | 2252 |
| CV-171 | MALUF, WALTER JOSE | BRAZIL | 2,4 | 19 | 1,479 | 1804 |
| CV-177 | BACKER, HENDRIK DE | BELGIUM | 1,1 | 27 | 0,694 | 1135 |
| CV-181 | DERDZIKOWSKI, ADAM | POLAND | 3,9 | 8 | 2,420 | 827 |
| CV-189 | HESSCHE, DIRK VAN | BELGIUM | 1,0 | 6 | 0,624 | 222 |
| CV-202 | ZAMORA, JORDI | SPAIN | 1,8 | 26 | 1,129 | 609 |
| CV-203 | DEMEULENAERE, IVO | BELGIUM | 0,8 | 20 | 0,468 | 167 |
| CV-204 | MEISTER, STEFAN | SWITZERLAND | 1,6 | 9 | 0,971 | 141 |
| CV-206 | FIGIEL, TADEUSZ | POLAND | 5,0 | 6 | 3,122 | 85 |
| CV-207 | ONDREJOV OBS. CAS | CZECH REPUBLIC | 0,8 | 13 | 0,480 | 4249 |
| CV-208 | NEYS, JOHAN | BELGIUM | 0,6 | 9 | 0,347 | 116 |
| CV-209 | MORAES, CAIO CRESPO | BRAZIL | 3,7 | 3 | 2,290 | 405 |
| CV-210 | BOURGEOIS, JEAN | BELGIUM | 1,4 | 14 | 0,847 | 196 |
| CV-211 | CEUNINCK, EDWIN DE | BELGIUM | 1,0 | 22 | 0,596 | 68 |
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| Totals | Observers 39 | Days 31 | CV 1,70 | No 599 | K 1,061 | |

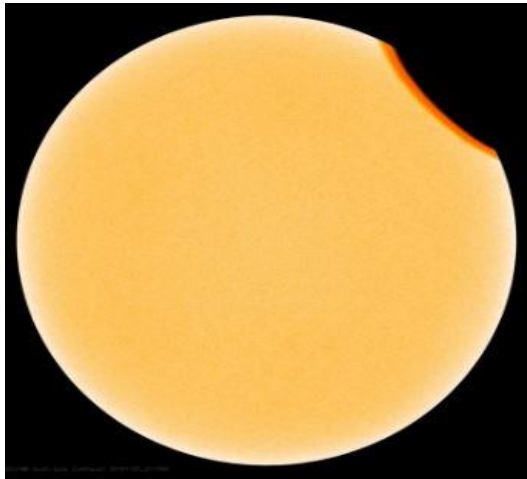
| Volume 38 Number 10 | | MPR 447 | October 2018 | ISSN 2535-3780 | | |
|---------------------|-------|---------|--------------|---|-----------|------------|
| Results | | | | *CV-USAF prepared via data from Joint USDC/NOAA, SWPC/USAF | | |
| Date | CV | Obsrvrs | *USAF-CV | std.dev. | CV-6 rot. | CV-13 rot. |
| 1 | 16,13 | 24 | 25 | 6,28 | 4,30 | 4,08 |
| 2 | 9,84 | 19 | 5 | 3,42 | 4,25 | 4,11 |
| 3 | 2,12 | 17 | 2 | 0,08 | 4,12 | 4,11 |
| 4 | 0,90 | 21 | 1 | 0,07 | 4,05 | 4,12 |
| 5 | 0,07 | 27 | 0 | 0,05 | 3,98 | 4,11 |
| 6 | 0,00 | 20 | 0 | 0,00 | 3,93 | 4,11 |
| 7 | 0,00 | 23 | 0 | 0,00 | 3,89 | 4,11 |
| 8 | 0,00 | 24 | 0 | 0,00 | 3,88 | 4,10 |
| 9 | 0,00 | 22 | 0 | 0,00 | 3,87 | 4,10 |
| 10 | 0,00 | 24 | 0 | 0,00 | 3,87 | 4,08 |
| 11 | 0,21 | 24 | 0 | 0,15 | 3,87 | 4,06 |
| 12 | 1,96 | 27 | 4 | 1,44 | 3,88 | 4,03 |
| 13 | 4,72 | 29 | 11 | 4,44 | 3,91 | 4,01 |
| 14 | 2,24 | 21 | 2 | 0,17 | 3,93 | 3,98 |
| 15 | 1,22 | 23 | 1 | 0,15 | 3,92 | 3,96 |
| 16 | 0,00 | 16 | 1 | 0,71 | 3,90 | 3,93 |
| 17 | 0,88 | 17 | 0 | 0,62 | 3,89 | 3,90 |
| 18 | 0,30 | 23 | 1 | 0,49 | 3,87 | 3,88 |
| 19 | 0,04 | 24 | 0 | 0,03 | 3,85 | 3,87 |
| 20 | 0,00 | 25 | 0 | 0,00 | 3,84 | 3,86 |
| 21 | 1,00 | 20 | 0 | 0,71 | 3,83 | 3,86 |
| 22 | 0,04 | 24 | 0 | 0,03 | 3,82 | 3,86 |
| 23 | 0,00 | 17 | 0 | 0,00 | 3,81 | 3,86 |
| 24 | 0,00 | 15 | 0 | 0,00 | 3,81 | 3,86 |
| 25 | 0,00 | 7 | 0 | 0,00 | 3,83 | 3,86 |
| 26 | 0,00 | 10 | 0 | 0,00 | 3,85 | 3,86 |
| 27 | 0,00 | 9 | 0 | 0,00 | 3,86 | 3,87 |
| 28 | 0,00 | 18 | 0 | 0,00 | 3,87 | 3,86 |
| 29 | 0,00 | 5 | 0 | 0,00 | 3,89 | 3,86 |
| 30 | 0,00 | 8 | 0 | 0,00 | 3,90 | 3,87 |
| 31 | 0,00 | 16 | | | 3,92 | 3,87 |
| Totals/ Avrgs | 1,34 | 19,3 | 1,77 | 0,63 | 6,46 | 16,13 |



| Volume 38 Number 10 | MPR 447 | October 2018 | ISSN 2535-3780 |
|--|---------|--------------|----------------|
| Solar Region Summary for October 2018 | | | |
| <u>Reg.-First day-Last day-Lat.-Lon.-Rot.-Area-Lgth.-CVtot.-class14d</u> | | | |
| 2723-29.09.18-05.10.18-S08-355-2208-10-1-10,4-BXO-DRO-DSO-DSO-CRO-BXO-AXX | | | |
| 2724-12.10.18-14.10.18-S08-126-2209-20-1-5,0-HRX-HSX-AXX | | | |
| 2725-13.10.18-18.10.18-S10-111-2209-10-1-1,0-AXX-AXX-AXX-AXX-AXX-AXX | | | |
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| :Product: Weekly Highlights and Forecasts | | | |
| :Issued: 2018 Nov 12 0247 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 | | | |
| # | | | |
| Highlights of Solar and Geomagnetic Activity | | | |
| 05 - 11 November 2018 | | | |
| Solar activity was at very low levels. The solar disk remained spotless. However, spots emerged late on 11 Nov near N05E13, but remained unnumbered. 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 moderate to high levels on 05-09 Nov, normal to moderate levels on 10 Nov and normal to high levels on 11 Nov. | | | |
| Geomagnetic field activity ranged from quiet to G2 (Moderate) storm levels during the period due to a pair of recurrent CH HSSs. The solar wind environment was enhanced on 05 Nov due to a positive polarity CH HSS. Wind speeds peaked at 610 km/s at 05/0506 UTC and the Bz component saw a maximum deflection of -8 nT at 05/0406 UTC. During this timeframe, unsettled to G2 (Moderate) geomagnetic conditions were observed. 06 Nov began a downward trend to a more | | | |

Image Reports

What passed between SOHO and the sun on November 7 2018?
 Timeframes are 2030 and 2115 UTC. Frames not found in SOHO archives afterwards.
 Thought it to be the planet Venus, but can it? Anyone an idea?



We have been provided older CV-observations from the periods 1995-2000, 2003-2017 from Ondrejov Observatory and 4061 CV-obs. have been computed into CV-database. Also period 1944-1946 (!), a period where Zürich/McIntosh-classifications as they are used now, did not exist! A total of 126 CV-obs. from that period have been specially computed. A sincere thanks to Martina Exnerova for the immense work she has performed!

No new Awards this month

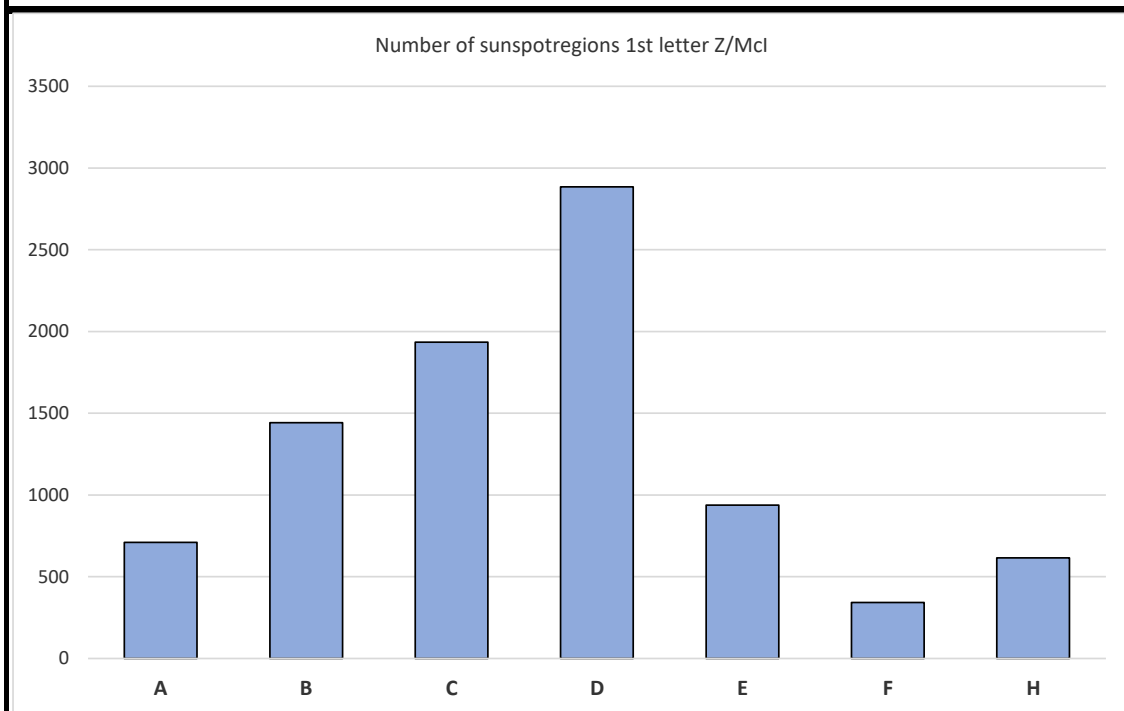
New member:

No new members this month

We are now 51 active members

Please check out www.cv-helios.net/cvrep2.html 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:

<http://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,

<http://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:

<http://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:

<http://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 go to: <http://www.cv-helios.net/observations/index.html>

Log on to:

<http://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 10766 entries registered
containing 171482 CV-observations!

This MPR issued 15th November 2018



CV-Helios Network

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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: 15.11.2018 18:36 UTC