

Monthly Preliminary Report

MPR



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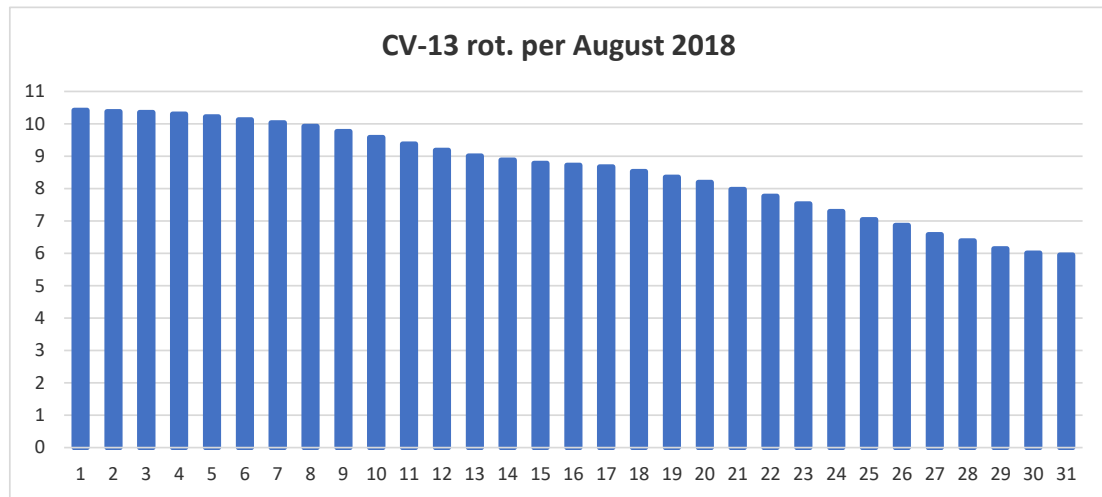
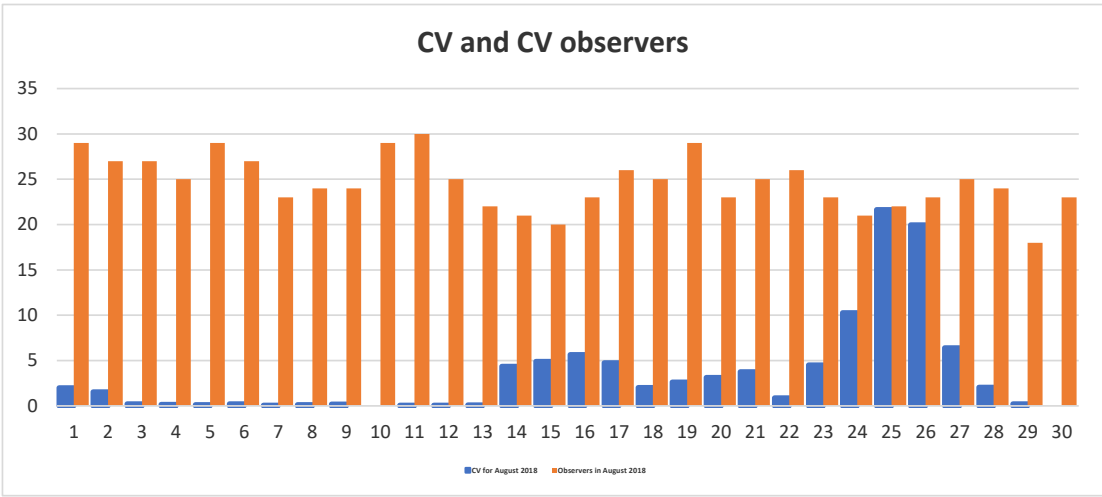
Monthly Preliminary Report for August 2018

Solar Cycle 24: Month no. 118

Report id.: cv1808.xls - CV-report no.: 445

| Memno. | Name | Country | CV | Obs | K | Obs. Tot. |
|--------|---------------------|----------------|------------|-----------|------------|-----------|
| CV-001 | MALDE, KJELL INGE | NORWAY | 1,0 | 18 | 0,318 | 8078 |
| CV-009 | BRAUCKHOFF, DIETER | GERMANY | 4,8 | 30 | 1,539 | 799 |
| CV-010 | DUBOIS, FRANKY | BELGIUM | 3,2 | 27 | 1,014 | 8192 |
| CV-019 | JUNKER, ELMAR | GERMANY | 1,2 | 5 | 0,382 | 3261 |
| CV-020 | HOLL, MANFRED | GERMANY | 2,8 | 28 | 0,898 | 5092 |
| CV-021 | BARNES, HOWARD | NEW ZEALAND | 2,0 | 11 | 0,637 | 4068 |
| CV-022 | VIERTEL, ANDREAS | GERMANY | 2,0 | 28 | 0,637 | 5361 |
| CV-038 | MORALES, GERMAN | BOLIVIA | 7,1 | 31 | 2,259 | 6606 |
| CV-041 | ROTHERMEL, JENS | GERMANY | 5,2 | 14 | 1,660 | 967 |
| CV-044 | SCHRÖDER, GERD | GERMANY | 2,9 | 26 | 0,918 | 4060 |
| CV-068 | THIMM, SVEN OVE | DENMARK | 6,9 | 14 | 2,206 | 3476 |
| CV-077 | JOHNSTON, ANDREW | UNITED KINGDOM | 2,5 | 19 | 0,787 | 2664 |
| CV-080 | JANSSENS, JAN | BELGIUM | 10,5 | 6 | 3,343 | 954 |
| CV-082 | URBANSKI, PIOTR | POLAND | 1,7 | 27 | 0,554 | 4364 |
| CV-086 | TOS-POLAND | POLAND | 2,6 | 31 | 0,842 | 6869 |
| CV-091 | DALEK, GRZEGORZ | POLAND | 2,1 | 27 | 0,672 | 3766 |
| CV-102 | MOSER, PAULO ROBER | BRAZIL | 3,4 | 7 | 1,091 | 2133 |
| CV-103 | STEEN, OCTAAF | BELGIUM | 3,3 | 30 | 1,040 | 4786 |
| CV-105 | RYBACK, ALEXEY | RUSSIA | 0,0 | 9 | 0,000 | 2765 |
| CV-107 | LEVENTHAL, MONTY | AUSTRALIA | 2,2 | 25 | 0,688 | 3910 |
| CV-116 | BJERKGÅRD, TERJE | NORWAY | 5,0 | 9 | 1,592 | 849 |
| CV-122 | FEIK, VLASTISLAV | CZECH REPUBLIC | 2,6 | 26 | 0,833 | 2135 |
| CV-135 | ARAUJO, GEMA | SPAIN | 4,1 | 31 | 1,294 | 5685 |
| CV-139 | ALONSO, JAVIER | SPAIN | 2,7 | 19 | 0,871 | 3029 |
| CV-151 | CARELS, JEFFREY | BELGIUM | 2,5 | 20 | 0,796 | 2206 |
| CV-171 | MALUF, WALTER JOSE | BRAZIL | 1,9 | 15 | 0,615 | 1767 |
| CV-177 | BACKER, HENDRIK DE | BELGIUM | 3,5 | 31 | 1,109 | 1079 |
| CV-181 | DERDZIKOWSKI, ADAM | POLAND | 4,1 | 10 | 1,305 | 807 |
| CV-189 | HESSCHE, DIRK VAN | BELGIUM | 2,0 | 5 | 0,637 | 211 |
| CV-202 | ZAMORA, JORDI | SPAIN | 2,8 | 29 | 0,900 | 560 |
| CV-203 | DEMEULENAERE, IVO | BELGIUM | 3,0 | 23 | 0,941 | 124 |
| CV-204 | MEISTER, STEFAN | SWITZERLAND | 1,3 | 17 | 0,412 | 113 |
| CV-205 | MANGELSDORF, TOM | UNITED STATES | 0,0 | 1 | 0,000 | 11 |
| CV-206 | FIGIEL, TADEUSZ | POLAND | 2,8 | 12 | 0,875 | 66 |
| CV-207 | EXNEROVÁ, MARTINA | CZECH REPUBLIC | 1,7 | 20 | 0,525 | 66 |
| CV-208 | NEYS, JOHAN | BELGIUM | 4,1 | 15 | 1,316 | 96 |
| CV-209 | MORAES, CAIO CRESPO | BRAZIL | 6,3 | 13 | 2,008 | 396 |
| CV-210 | BOURGEOIS, JEAN | BELGIUM | 1,9 | 27 | 0,613 | 161 |
| CV-211 | CEUNINCK, EDWIN DE | BELGIUM | 2,2 | 24 | 0,690 | 24 |
| Totals | Observers 39 | Days 31 | CV 3,13 | No 760 | K 0,995 | |

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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 | 2,00 | 29 | 1 | 0,71 | 3,98 | 10,42 |
| 2 | 1,56 | 27 | 1 | 0,39 | 3,98 | 10,38 |
| 3 | 0,22 | 27 | 0 | 0,16 | 3,96 | 10,35 |
| 4 | 0,16 | 25 | 0 | 0,11 | 3,96 | 10,30 |
| 5 | 0,14 | 29 | 0 | 0,10 | 3,95 | 10,22 |
| 6 | 0,22 | 27 | 0 | 0,16 | 3,95 | 10,13 |
| 7 | 0,09 | 23 | 0 | 0,06 | 3,95 | 10,03 |
| 8 | 0,13 | 24 | 0 | 0,09 | 3,96 | 9,92 |
| 9 | 0,21 | 24 | 0 | 0,15 | 3,92 | 9,76 |
| 10 | 0,00 | 29 | 0 | 0,00 | 3,88 | 9,58 |
| 11 | 0,07 | 30 | 0 | 0,05 | 3,86 | 9,38 |
| 12 | 0,08 | 25 | 0 | 0,06 | 3,85 | 9,19 |
| 13 | 0,09 | 22 | 0 | 0,06 | 3,85 | 9,01 |
| 14 | 4,38 | 21 | 2 | 1,68 | 3,87 | 8,89 |
| 15 | 4,90 | 20 | 5 | 0,07 | 3,90 | 8,78 |
| 16 | 5,65 | 23 | 2 | 2,58 | 3,93 | 8,72 |
| 17 | 4,77 | 26 | 4 | 0,54 | 3,95 | 8,67 |
| 18 | 2,04 | 25 | 1 | 0,74 | 3,95 | 8,53 |
| 19 | 2,62 | 29 | 2 | 0,44 | 3,96 | 8,35 |
| 20 | 3,13 | 23 | 2 | 0,80 | 3,97 | 8,19 |
| 21 | 3,76 | 25 | 2 | 1,24 | 3,99 | 7,97 |
| 22 | 0,88 | 26 | 1 | 0,08 | 3,99 | 7,76 |
| 23 | 4,52 | 23 | 5 | 0,34 | 4,01 | 7,53 |
| 24 | 10,29 | 21 | 18 | 5,45 | 4,06 | 7,29 |
| 25 | 21,64 | 22 | 24 | 1,67 | 4,17 | 7,04 |
| 26 | 19,96 | 23 | 12 | 5,63 | 4,28 | 6,86 |
| 27 | 6,40 | 25 | 10 | 2,55 | 4,31 | 6,58 |
| 28 | 2,04 | 24 | 1 | 0,74 | 4,29 | 6,39 |
| 29 | 0,22 | 18 | 0 | 0,16 | 4,28 | 6,14 |
| 30 | 0,00 | 23 | 0 | 0,00 | 4,28 | 6,01 |
| 31 | 0,00 | 22 | 0 | 0,00 | 4,28 | 5,95 |
| Totals/ Avrgs | 3,30 | 24,5 | 3,00 | 0,86 | 6,46 | 16,13 |



Solar Region Summary for August 2018

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

2717-01.08.18-02.08.18-S07-25-2206-10-1-1,0-AXX-AXX

2718-14.08.18-18.08.18-S08-192-2207-10-3-2,8-BXO-CRO-BXO-HRX-AXX

2719-19.08.18-26.08.18-S06-133-2207-10-3-2,9-BXO-BXO-BXO-AXX-CRO-CRO-CRO-AXX

2720-24.08.18-28.08.18-N08-133-2207-30-4-10,8-DRO-DAO-CSO-HSX-AXX

:Product: Weekly Highlights and Forecasts

:Issued: 2018 Sep 10 0413 UTC

Prepared by the US Dept. of Commerce, NOAA, Space Weather Prediction Center

Product description and SWPC contact on the Web

<http://www.swpc.noaa.gov/weekly.html>

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Weekly Highlights and Forecasts

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Highlights of Solar and Geomagnetic Activity

03 - 09 September 2018

Solar activity was at very low levels this period. Region 2721 (N10, L=286 class/area Bxo/010 on 09 Sep) emerged near center disk on 08 Sep. This small region exhibited slight growth early on 09 Sep, but was showing signs of decay as of this report and remained inactive.

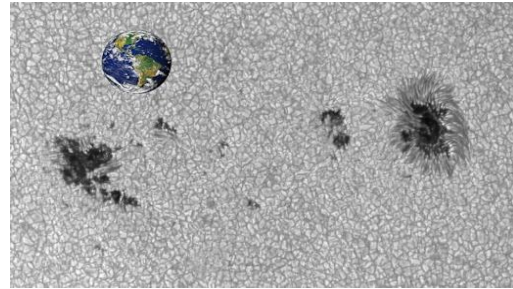
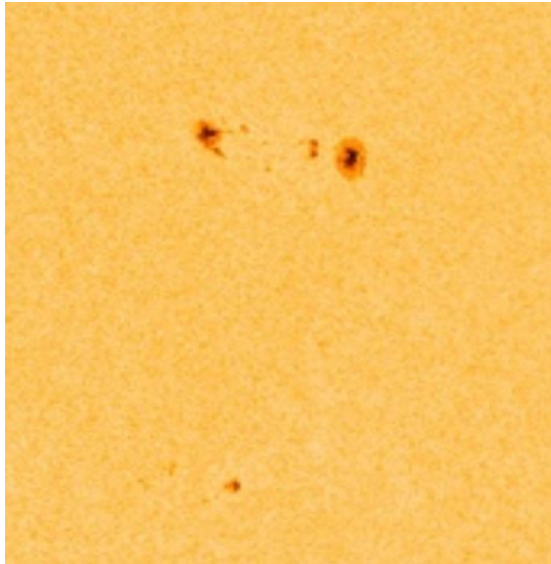
On 09 Sep, a prominence eruption was observed off the SW limb, beginning at 09/0815 UTC in SDO/AIA 304 imagery and at 09/0824 UTC in 171 imagery. While this event appears to be directed well south and west of the Sun-Earth line, significant gaps in SOHO coronagraph imagery data made analysis nearly impossible.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reach high levels on 03 - 08 Sep, then decreased to moderate levels on 09 Sep. A peak flux of 12,435 pfu was observed on 03/2035 UTC.

Image Reports

AR 2720 and 2719



2018 Aug. 25th from the Saint-Véran/
Astroqueyras observatory in the French Alps
(spaceweather.com) size of Earth shown

prelim. CV-I was 21,6 and CV-USAF was 24
Max. Z/Mcl-class DAO (19) on 25 Aug
Region-life 24-28 Aug 2018

Picture from SOHO (sdo.gsfc.nasa.gov)
Sun 25 Aug 2018 1152 UTC

First time since 24 Jun 2018
2 regions present on same day

No new Awards this month

New member:

CV-211 de CEUNINCK, EDWIN

BELGIUM

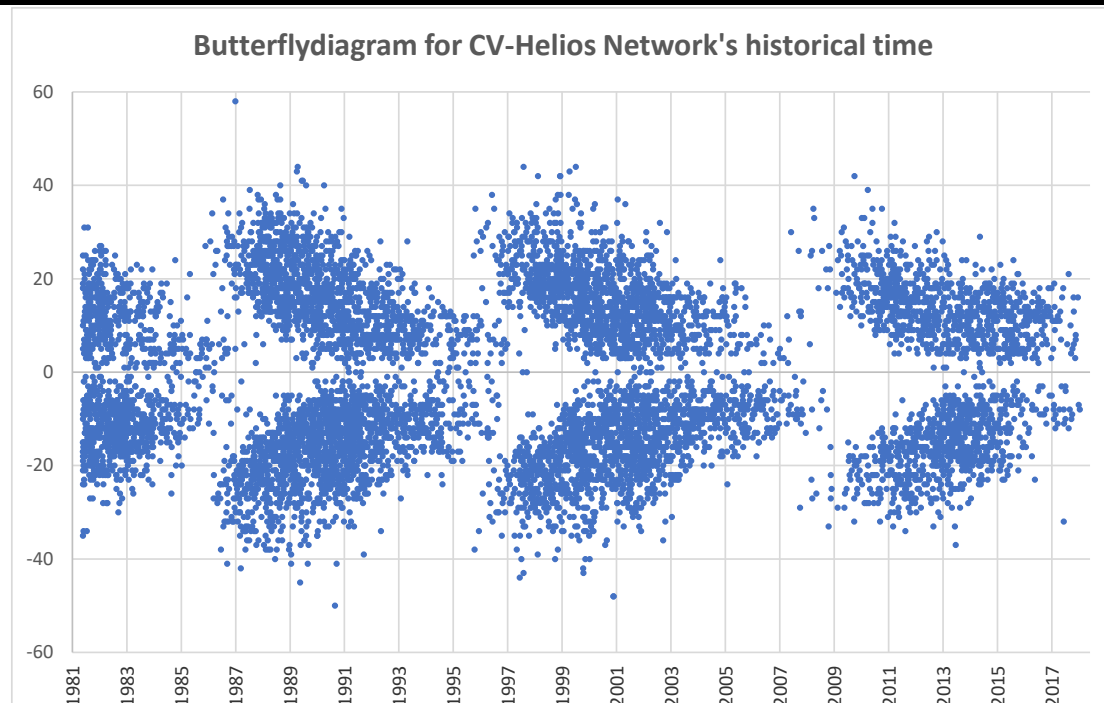
Joined: 10.09.2018

Welcome to CV-Helios Network!

We are now 51 active members

[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 at the very end of 2019/start 2020.
Latest: Predicted minimum March to May 2020.



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 10419 entries registered
containing 165878 CV-observations!

This MPR issued 15th September 2018



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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: 15.09.2018 17:26 UTC