

Monthly Preliminary Report

MPR



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CV-Helios Network

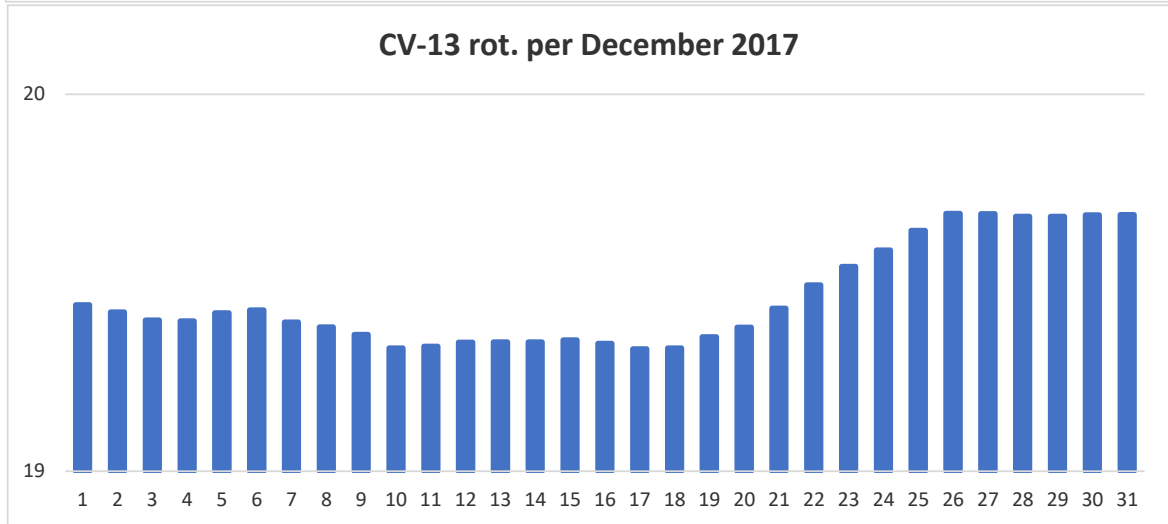
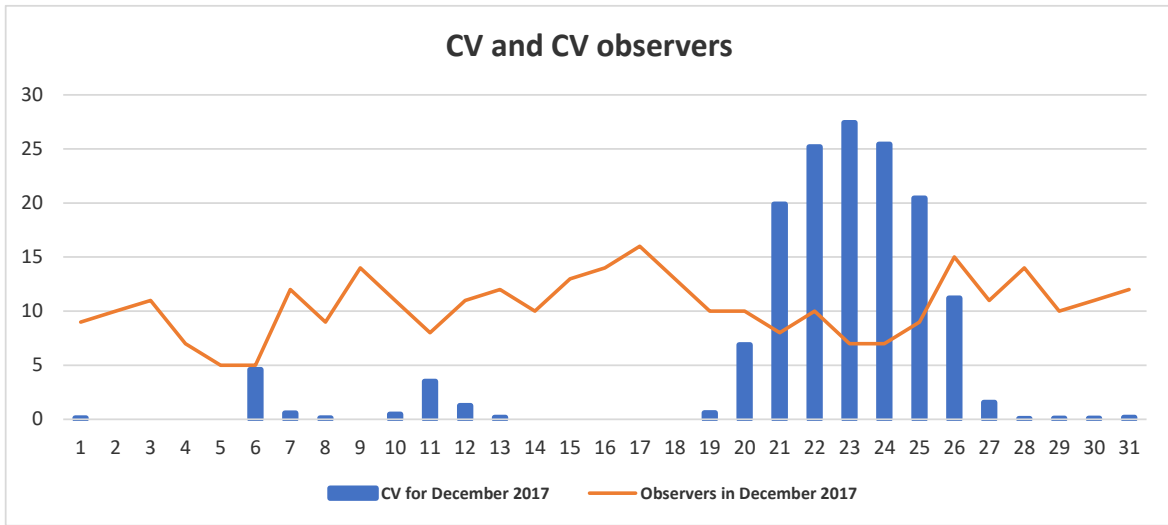
Monthly Preliminary Report for December 2017

Solar Cycle 24: Month no. 110

Report id.: cv1712.xls - CV-report no.: 437

| Memno. | Name | Country | CV | Obs | K | Obs. Tot. |
|---------------|--------------------|----------------|-------------|------------|--------------|-----------|
| CV-001 | MALDE, KJELL INGE | NORWAY | 3,2 | 13 | 0,779 | 7906 |
| CV-010 | DUBOIS, FRANKY | BELGIUM | 1,6 | 17 | 0,393 | 7060 |
| CV-019 | JUNKER, ELMAR | GERMANY | 7,3 | 6 | 1,812 | 3195 |
| CV-020 | HOLL, MANFRED | GERMANY | 0,0 | 5 | 0,000 | 4918 |
| CV-021 | BARNES, HOWARD | NEW ZEALAND | 5,9 | 18 | 1,469 | 3982 |
| CV-022 | VIERTEL, ANDREAS | GERMANY | 0,0 | 5 | 0,000 | 5212 |
| CV-023 | BRETSCHNEIDER, HAR | GERMANY | 1,3 | 10 | 0,321 | 4525 |
| CV-038 | MORALES, GERMAN | BOLIVIA | 8,5 | 22 | 2,112 | 6387 |
| CV-040 | BATTAIOLA, ROBERTO | ITALY | 4,0 | 5 | 0,989 | 1681 |
| CV-044 | SCHRÖDER, GERD | GERMANY | 5,8 | 8 | 1,421 | 3906 |
| CV-068 | THIMM, SVEN OVE | DENMARK | 7,3 | 3 | 1,812 | 3429 |
| CV-077 | JOHNSTON, ANDREW | UNITED KINGDOM | 1,7 | 12 | 0,412 | 2528 |
| CV-080 | JANSSENS, JAN | BELGIUM | 0,0 | 3 | 0,000 | 913 |
| CV-082 | URBANSKI, PIOTR | POLAND | 0,4 | 7 | 0,106 | 4183 |
| CV-086 | TOS-POLAND | POLAND | 5,6 | 31 | 1,387 | 6626 |
| CV-091 | DALEK, GRZEGORZ | POLAND | 3,7 | 13 | 0,913 | 3587 |
| CV-103 | STEEN, OCTAAF | BELGIUM | 2,0 | 16 | 0,494 | 4574 |
| CV-105 | RYBACK, ALEXEY | RUSSIA | 4,8 | 5 | 1,186 | 2664 |
| CV-107 | LEVENTHAL, MONTY | AUSTRALIA | 6,4 | 17 | 1,585 | 3768 |
| CV-122 | FEIK, VLASTISLAV | CZECH REPUBLIC | 3,8 | 14 | 0,936 | 1974 |
| CV-135 | ARAUJO, GEMA | SPAIN | 5,1 | 31 | 1,268 | 5445 |
| CV-139 | ALONSO, JAVIER | SPAIN | 1,4 | 22 | 0,348 | 2909 |
| CV-151 | CARELS, JEFFREY | BELGIUM | 1,1 | 8 | 0,278 | 2058 |
| CV-181 | DERDZIKOWSKI, ADAM | POLAND | 2,7 | 3 | 0,659 | 750 |
| CV-202 | ZAMORA, JORDI | SPAIN | 4,4 | 30 | 1,096 | 414 |
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| | | | | | | |
| | | | | | | |
| Totals | Observers | Days | CV | No | K | |
| | 25 | 31 | 3,52 | 324 | 0,871 | |

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|---------------------|-------------|-------------|---------------|----------------|--------------|--------------|
| Results | | | | | | |
| Date | CV | Obsrvrs | USAF | std.dev. | CV-6 rot. | CV-13 rot. |
| 1 | 0,11 | 9 | | | 23,28 | 19,44 |
| 2 | 0,00 | 10 | | | 23,18 | 19,42 |
| 3 | 0,00 | 11 | | | 23,12 | 19,40 |
| 4 | 0,00 | 7 | | | 23,11 | 19,40 |
| 5 | 0,00 | 5 | | | 23,09 | 19,42 |
| 6 | 4,60 | 5 | 1,27 | 2,35 | 23,11 | 19,43 |
| 7 | 0,58 | 12 | | | 23,03 | 19,40 |
| 8 | 0,11 | 9 | | | 22,93 | 19,38 |
| 9 | 0,00 | 14 | | | 22,88 | 19,36 |
| 10 | 0,45 | 11 | | | 22,85 | 19,33 |
| 11 | 3,50 | 8 | 0,80 | 1,91 | 22,84 | 19,33 |
| 12 | 1,27 | 11 | 0,06 | 0,86 | 22,84 | 19,34 |
| 13 | 0,17 | 12 | | | 22,83 | 19,34 |
| 14 | 0,00 | 10 | | | 22,91 | 19,34 |
| 15 | 0,00 | 13 | | | 22,94 | 19,35 |
| 16 | 0,00 | 14 | | | 22,92 | 19,34 |
| 17 | 0,00 | 16 | | | 22,79 | 19,32 |
| 18 | 0,00 | 13 | | | 22,59 | 19,33 |
| 19 | 0,60 | 10 | | | 22,33 | 19,36 |
| 20 | 6,90 | 10 | 2,42 | 3,17 | 22,00 | 19,38 |
| 21 | 19,88 | 8 | 10,78 | 6,43 | 21,76 | 19,43 |
| 22 | 25,20 | 10 | 14,75 | 7,39 | 21,58 | 19,49 |
| 23 | 27,43 | 7 | 16,47 | 7,75 | 21,40 | 19,54 |
| 24 | 25,43 | 7 | 14,92 | 7,43 | 21,17 | 19,59 |
| 25 | 20,44 | 9 | 11,19 | 6,54 | 20,95 | 19,64 |
| 26 | 11,20 | 15 | 4,91 | 4,45 | 20,77 | 19,68 |
| 27 | 1,55 | 11 | 0,12 | 1,01 | 20,58 | 19,68 |
| 28 | 0,07 | 14 | | | 20,38 | 19,68 |
| 29 | 0,10 | 10 | | | 20,42 | 19,68 |
| 30 | 0,09 | 11 | | | 20,45 | 19,68 |
| 31 | 0,17 | 12 | | | 20,48 | 19,68 |
| Totals/ Avrgs | 4,83 | 10,5 | 7,06 | 4,48 | 23,21 | 19,37 |



Solar Region Summary for December 2017

| Reg.-First day-Last day-Lat.-Lon.-Rot.-Area-Lgth.-CVtot.-class14d |
|--|
| 2689-26.11.17-01.12.17-N13-108-2197-20-5-8,2-CSO-CAO-CSO-CAO-HAX-HRX |
| 2690-07.12.17-08.12.17-N07-332-2198-10-2-1,5-BXO-AXX |
| 2691-12.12.17-13.12.17-S03-220-2198-10-1-2,0-BXO-BXO |
| 2692-21.12.17-28.12.17-N16-86-2198-70-4-14,3-CAO-DAO-DAO-DAO-EAI-EAO-CRO-AXX |
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:Product: Weekly Highlights and Forecasts

:Issued: 2018 Jan 15 0519 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>
 #
 # Weekly Highlights and Forecasts
 #
 Highlights of Solar and Geomagnetic Activity
 08 - 14 January 2018

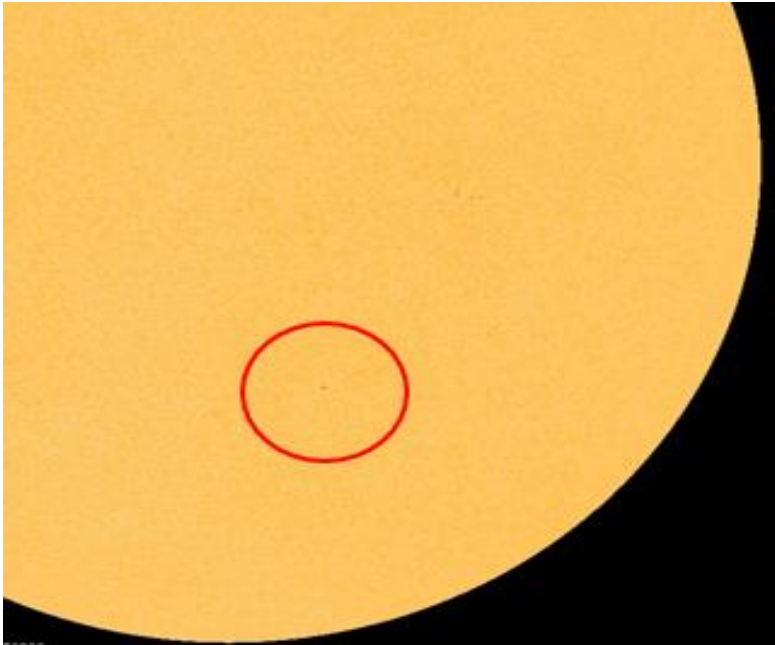
Solar activity was very low throughout the summary period. Regions 2694 (S32, L=244, class/area=Axx/10 on 10 Jan) and 2695 (S08, L=260, class/area=Bxo/10 on 11 Jan) briefly contained sunspots and simple magnetic signatures early this period, but both regions were generally quiet and unproductive. No Earth-directed CMEs were observed.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit remained at normal flux levels throughout the summary period.

Geomagnetic field activity reached G1 (Minor) geomagnetic storm levels early on 14 Jan with isolated active periods observed on 08, 09 and 14 Jan due to the influences of multiple positive polarity CH HSSs. Generally quiet and quiet to unsettled geomagnetic field activity was observed throughout the remainder of the summary period.

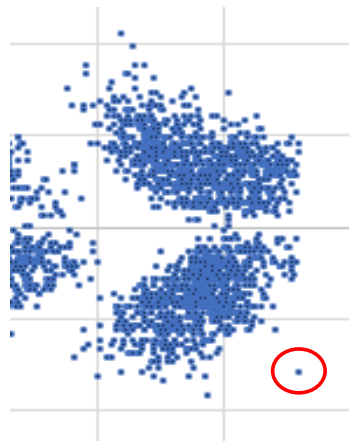
Image Reports



Active Region no. 2694 appeared early on the 9th January at **-32** lat., 244 long., rot. no. 2199. and is the highest latitude sunspot region for almost exactly 4 years.

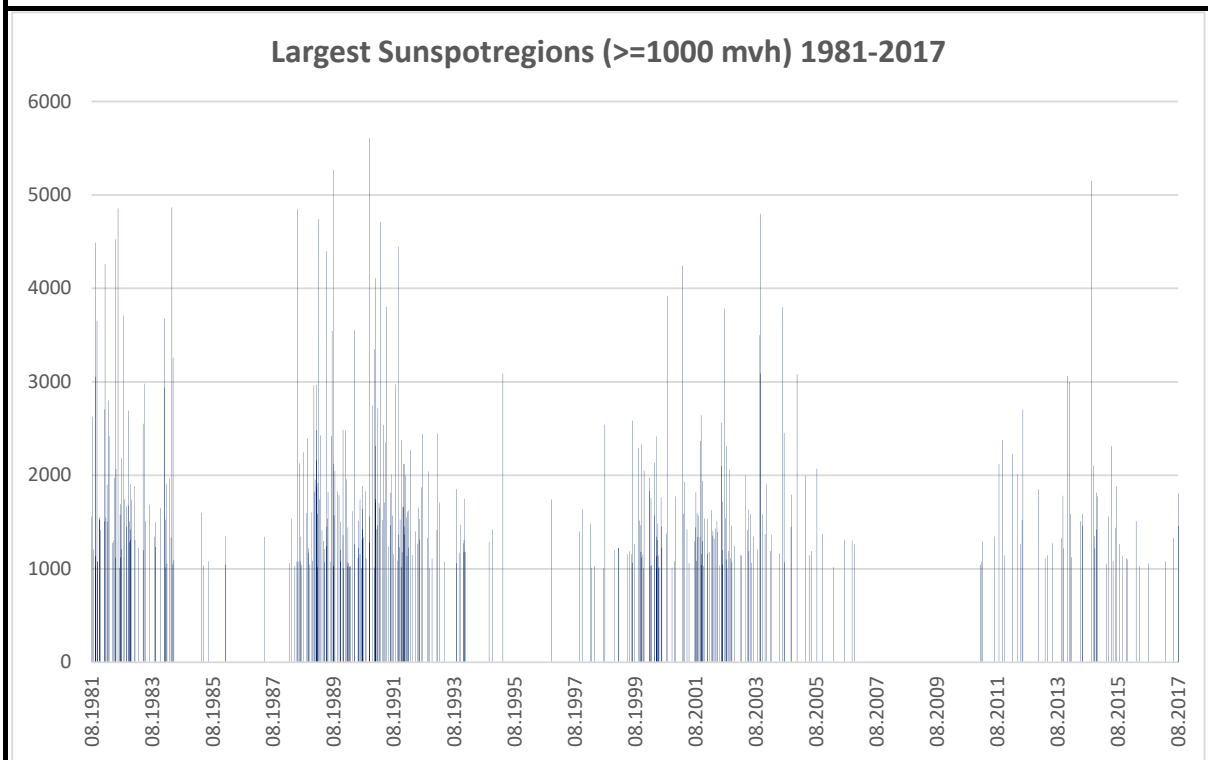
This again denotes the coming of solar cycle 25 which should be starting with minimum early year 2020 and have a maximum mid-2025.

The magnitude of solar cycle 25 is expected to be almost similar to the present cycle 24.



Solar cycle 25 is approaching!

MINIMUM Cycle 24/25 is expected to occur at the very end of 2019/start 2020.
Predicted extreme early April/May 2019, but most likely min. is March 2020.



Want 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 2017.

Comes with tilted Stoneyhurst-chart to use for observations!

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.

CV-Helios Network: Monitor MPR progress as entries are made!

In order for the observers to monitor that their submissions

have been registered at CV-Helios Network, a new feature has been made in March 2014:

Just enter the following link in your internet browser and you will see a page containing today's date and a further link into an excel sheet that is created automatically for every Entry made to the CV-Helios Network database and also one copy for every day of the year.

The preliminary MPR visible will remain visible for the entire calendar month.

The data are available fresh from about 10:00 UTC until local midnight.

Another feature made gives you daily information for the last 6 rotations for:

Date, USAF-CV, USAF-CV6rot, FluxAdj, FluxAdj6rot, FluxObs, FluxObs6rot, SunspotArea, SunspotArea6rot, PIndex6rot, Lat. N/S hem.6rot, SolarWind, SolarWind6rot.

Use this link to see also this feature.

<http://cv-helios.net/helios/cv/web/mprpost.html>

<http://www.cv-helios.net/cgi/data/datlist.txt>

Daily Report issued 10:00 UTC

for checking of Entries Summary

IMPORTANT NOTICE!

2017 Sep 07

Due to cases of spamming and our host does not appreciate us using cgi-scripts during submission of observer forms, the scripts have been altered. Observers will not notice the changes made, but they should now be much safer when we now go over to php-scripts. Good Luck!

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

<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 10041 entries registered
containing 159361 CV-observations!

This MPR issued 15th January 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: 15.01.2018 18:51 UTC