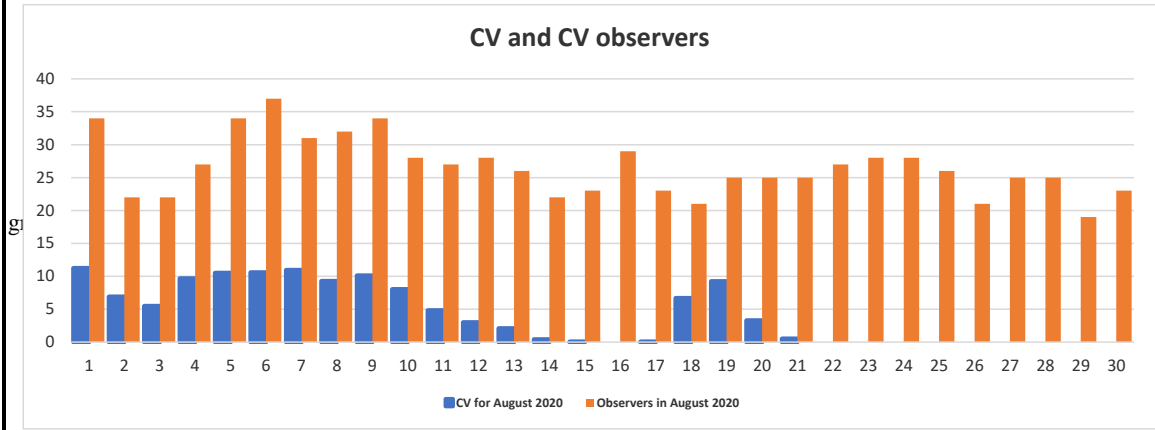
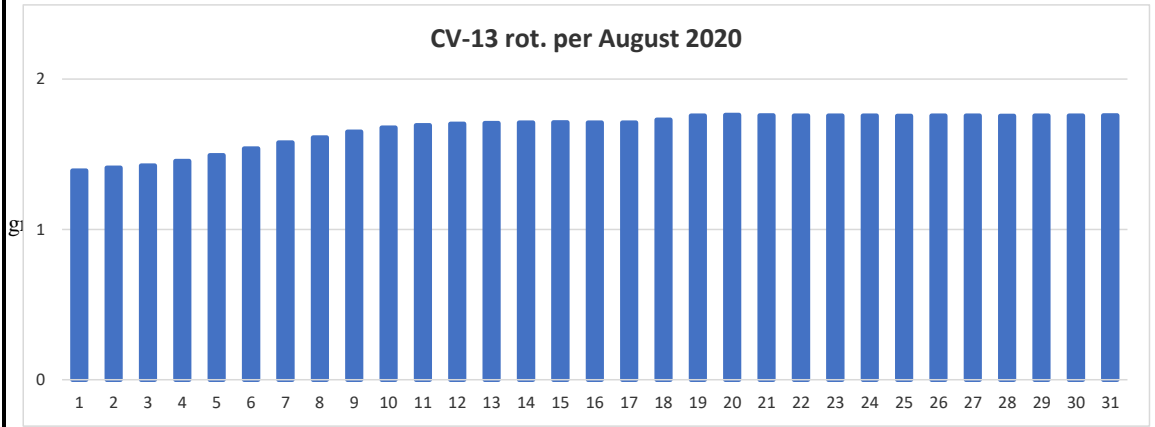


| Results | | | | | | |
|--------------------------|-------------|-------------|-------------------|---------------|-------------|-------------|
| Date | CV | Obsrvrs | Regions 6 rot. | * CV- USAF | CV-6 rot. | CV-13 rot. |
| 1 | 11,24 | 34 | 0,27 | 1,88 | 2,11 | 1,39 |
| 2 | 6,91 | 22 | 0,28 | 1,95 | 2,14 | 1,40 |
| 3 | 5,45 | 22 | 0,29 | 2,01 | 2,16 | 1,42 |
| 4 | 9,67 | 27 | 0,30 | 2,08 | 2,21 | 1,45 |
| 5 | 10,50 | 34 | 0,30 | 2,15 | 2,28 | 1,49 |
| 6 | 10,57 | 37 | 0,31 | 2,21 | 2,35 | 1,53 |
| 7 | 10,94 | 31 | 0,32 | 2,28 | 2,42 | 1,57 |
| 8 | 9,28 | 32 | 0,32 | 2,34 | 2,47 | 1,61 |
| 9 | 10,09 | 34 | 0,33 | 2,41 | 2,54 | 1,64 |
| 10 | 8,04 | 28 | 0,34 | 2,43 | 2,58 | 1,67 |
| 11 | 4,81 | 27 | 0,34 | 2,44 | 2,60 | 1,69 |
| 12 | 3,00 | 28 | 0,35 | 2,46 | 2,62 | 1,70 |
| 13 | 2,08 | 26 | 0,36 | 2,46 | 2,62 | 1,70 |
| 14 | 0,41 | 22 | 0,36 | 2,46 | 2,62 | 1,70 |
| 15 | 0,04 | 23 | 0,36 | 2,46 | 2,62 | 1,71 |
| 16 | 0,00 | 29 | 0,36 | 2,46 | 2,62 | 1,71 |
| 17 | 0,04 | 23 | 0,36 | 2,46 | 2,61 | 1,71 |
| 18 | 6,67 | 21 | 0,37 | 2,48 | 2,64 | 1,72 |
| 19 | 9,24 | 25 | 0,37 | 2,48 | 2,66 | 1,75 |
| 20 | 3,28 | 25 | 0,37 | 2,46 | 2,67 | 1,76 |
| 21 | 0,52 | 25 | 0,37 | 2,46 | 2,66 | 1,76 |
| 22 | 0,00 | 27 | 0,37 | 2,46 | 2,66 | 1,75 |
| 23 | 0,00 | 28 | 0,37 | 2,46 | 2,65 | 1,75 |
| 24 | 0,00 | 28 | 0,37 | 2,46 | 2,65 | 1,75 |
| 25 | 0,00 | 26 | | | 2,65 | 1,75 |
| 26 | 0,00 | 21 | | | 2,65 | 1,75 |
| 27 | 0,00 | 25 | | | 2,65 | 1,75 |
| 28 | 0,00 | 25 | | | 2,65 | 1,75 |
| 29 | 0,00 | 19 | | | 2,66 | 1,75 |
| 30 | 0,00 | 23 | | | 2,66 | 1,75 |
| 31 | 0,00 | 21 | | | 2,65 | 1,75 |
| Totals/ Avrgs | 3,96 | 26,4 | 1,00 | 4,83 | 2,54 | 1,66 |

CV and CV observers



CV-13 rot. per Aug 2020



Solar Region Summary for July 2020

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

2766-04.07.20-06.07.20-N06-117-2232-10-4-1,7-BXO-AXX-BXO

2767-21.07.20-02.08.20-S22-197-2233-80-1-10,0-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX

2768-28.07.20-01.08.20-N25-113-2233-10-1-3,0-AXX-AXX-HSX-BXO-AXX

:Product: Weekly Highlights and Forecasts

:Issued: 2020 Sep 14 0144 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
 07 - 13 September 2020

Solar activity was very low throughout the reporting period. No spotted regions were observed on the visible disk and no Earth-directed CMEs were observed in available coronagraph imagery.

No proton events were observed at geosynchronous orbit.

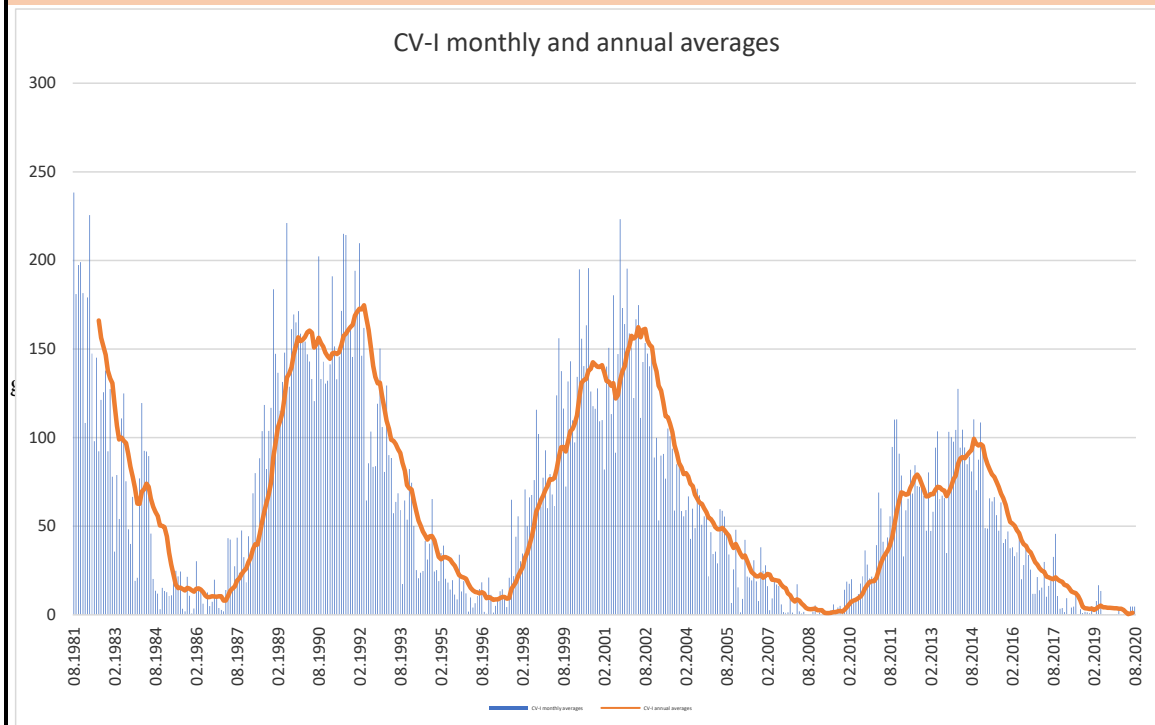
The greater than 2 MeV electron flux at geosynchronous orbit was normal to high levels throughout the reporting period. GOES-16 peak flux reached 10,200 pfu at 07/1600 UTC.

Geomagnetic field activity was quiet to unsettled under a mostly nominal solar wind regime.

Forecast of Solar and Geomagnetic Activity
 14 September - 10 October 2020

Solar activity is expected to be at very low levels for the outlook

Monthly graph



News August 2020

A little repetition from last issue of MPR:

HAS SOLAR CYCLE 24 FINALLY ENDED?

Yes.

The lowest solar flux adjusted center averaged 13 rotations indicate 23 Nov 2019 as the approx. min. date.

The low level did not reach as low as for transition solar cycles 23 and 24, at 67,93 on 01 Nov 2008.

This time, the cycle transition occurred on 23 Nov 2019 at pfu 69,02, same calculation as above.

Now, using the same calculation scheme as above on our CV-International numbers, we end up as 10 Nov 2019 as the minimum date with cv 0,48.

Using the other commonly used Relative numbers we end up with the same date as above CV-I, i.e. either 09 or 10 Nov 2019 at Ri 1,46.

Between 12 and 20 Dec 2019 it may seem we made the maximum number of spotless days ending up at 255 days with definite days under cv=0,5.

PICK FROM SPACEWEATHERLIVE.COM BLOG

<https://spaceweatherarchive.com/2020/08/04/solar-cycle-25-is-coming-to-life/>

Solar Cycle 25 is Coming to Life

AUGUST 4, 2020 / DR.TONY PHILLIPS

August 3, 2020: There is no longer any doubt. New Solar Cycle 25 is coming to life. The latest sign came today with the emergence of a new sunspot group, AR2770, inset in this magnetic map of the sun's surface from NASA's Solar Dynamics Observatory

Kjell Inge Malde

AUGUST 6, 2020 AT 8:49 AM

Calculating the 10,7cm solar flux 2800 MHz from Penticton, Canada, giving a 13-rotation centered average for the 1AU adjusted values, I have landed on 2019 November 23 as a center minimum date.

This correspond fairly well with R-I, CV-I, maximum spotless days on the mentioned values, and also some of the various measurements done by Nobeyama in Japan.

All indices should indicate solar cycle 25 has well entered the front door.

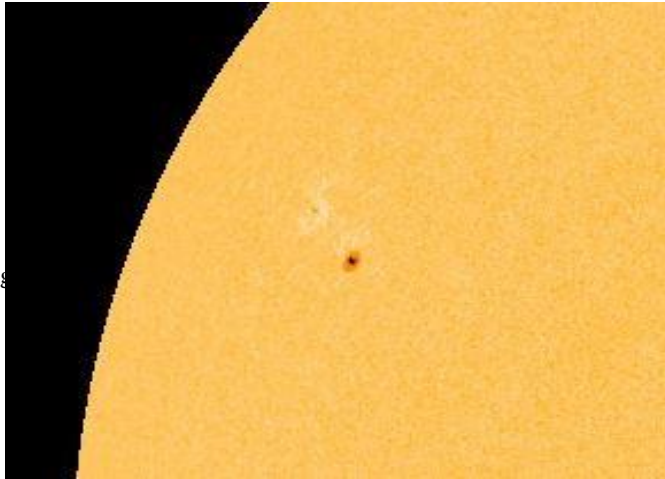
APOLOGIES

Due to my recent moving of private address, the registrations of CV-submissions took longer time at the beginning of September.

The hard work packing, transporting, reerections, refurbishing, etc., took a long time, but those days are now more or less over, and everything nearing normal.

Thank you very much for your patience!

Pictures from last month - Observer contributions, etc.



SOLAR CYCLE 25 SLOWLY COMING!

Region 2770 taken from SOHO on 05 Aug 2020 at 1500 UTC.

Positioned at S22 long. 24 in rot. no. 2233,
yet another region in the solar cycle 25 history,
and covered a max of 160 day of this image.

It was classified at CSO on 5 of the days.

The distinct group decayed before reaching the W limb.

Regions stable and unremarkable but numbers may be picking up again now.

When the tiny group 2772 disappeared on the 22nd,
we have, until editorial close, had 25 consecutive days with a blank disk,
and looking at Stereo-A images not much of interest may turn up.

Please feel free to send in your images for publication here!

Thank you.

Awards this month

0


none

New member:

Welcome to:

none

We are now 54 active members (last 12 mo.)

| | |
|--|---------------------|
| Solar Coordinates | New from April 2020 |
| Daily list of Solar Ephemeris available at: Daily list of Solar Ephemeris Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec. and adjusted SOHO-picture on grid. | |
| 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! | |
| 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/helios/cv/web/datlist.htm for checking of Entries Summary https://www.cv-helios.net/helios/cv/web/cvobsmonth.htm | |
| 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 | |
| Please check out www.cv-helios.net/cvrep2.html for updates of files! | |
| <u>SUBMISSIONS OF CV-OBSERVATIONS</u> | |
| Log on to: https://www.cv-helios.net/observations/index.html login solaris password cvheliosobs Submission before 15th of proceeding month 18:00 UTC. MPR issue 15th of proceeding month 2000 UTC. Good luck CV-observing! | |
| Last 40 entries Average Time Receipt to Registered: 10 hours 39 minutes | |
| CV-Helios Network - over 39 years in solar amateur astronomy service! There are now 11697 entries registered containing 188054 CV-observations! | |
| Editorial close: 15.09.2020 17:42 UTC | |
|  CV-Helios Network | |