

Monthly Preliminary Report

MPR



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CV-Helios Network

Monthly Preliminary Report for July 2019

Solar Cycle 24: Month no. 129

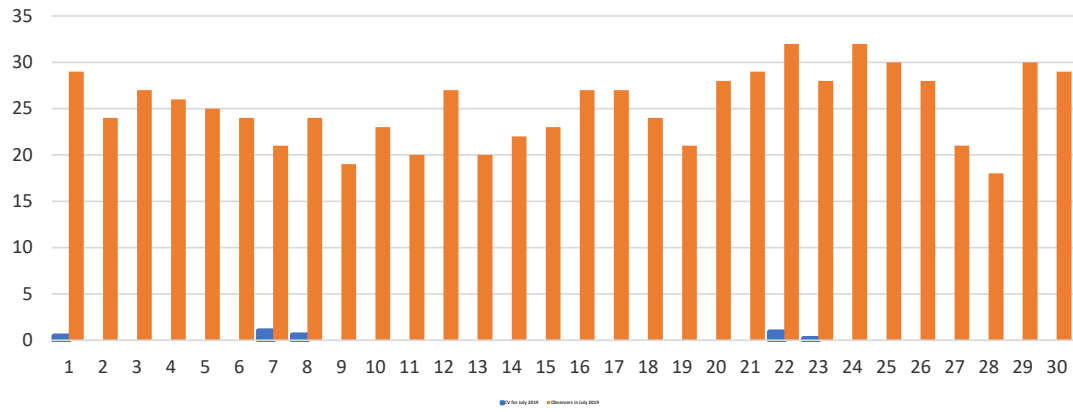
Report id.: cv1907 - CV-report no.: 456

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	0,1	20	0,890	8293
CV-009	BRAUCKHOFF, DIETER	GERMANY	0,4	29	3,683	1054
CV-010	DUBOIS, FRANKY	BELGIUM	0,1	28	0,954	8460
CV-019	JUNKER, ELMAR	GERMANY	0,0	6	0,000	3349
CV-020	HOLL, MANFRED	GERMANY	0,0	14	0,000	5276
CV-021	BARNES, HOWARD	NEW ZEALAND	0,1	15	0,593	4223
CV-022	VIERTEL, ANDREAS	GERMANY	0,0	26	0,000	5495
CV-023	BRETSCHNEIDER, HAR	GERMANY	0,1	25	0,712	4844
CV-038	MORALES, GERMAN	BOLIVIA	0,0	26	0,342	6888
CV-040	BATTAIOLA, ROBERTO	ITALY	0,0	6	0,000	1763
CV-041	ROTHERMEL, JENS	GERMANY	0,3	10	2,670	1040
CV-044	SCHRÖDER, GERD	GERMANY	0,0	20	0,000	4233
CV-068	THIMM, SVEN OVE	DENMARK	0,0	8	0,000	3560
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	0,2	17	1,571	2839
CV-080	JANSSENS, JAN	BELGIUM	0,3	4	2,225	1005
CV-082	URBANSKI, PIOTR	POLAND	0,1	29	0,614	4560
CV-086	TOS-POLAND	POLAND	0,3	31	2,297	7203
CV-091	DALEK, GRZEGORZ	POLAND	0,0	16	0,000	3947
CV-102	MOSER, PAULO ROBER	BRAZIL	0,0	9	0,000	2148
CV-103	STEEN, OCTAAF	BELGIUM	0,2	30	2,077	5060
CV-104	MEEUS, LIEVE	BELGIUM	0,7	3	5,933	2212
CV-105	RYBACK, ALEXEY	RUSSIA	0,2	13	2,054	2861
CV-107	LEVENTHAL, MONTY	AUSTRALIA	0,0	21	0,000	4126
CV-116	BJERKGÅRD, TERJE	NORWAY	0,0	4	0,000	885
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	0,3	25	2,492	2347

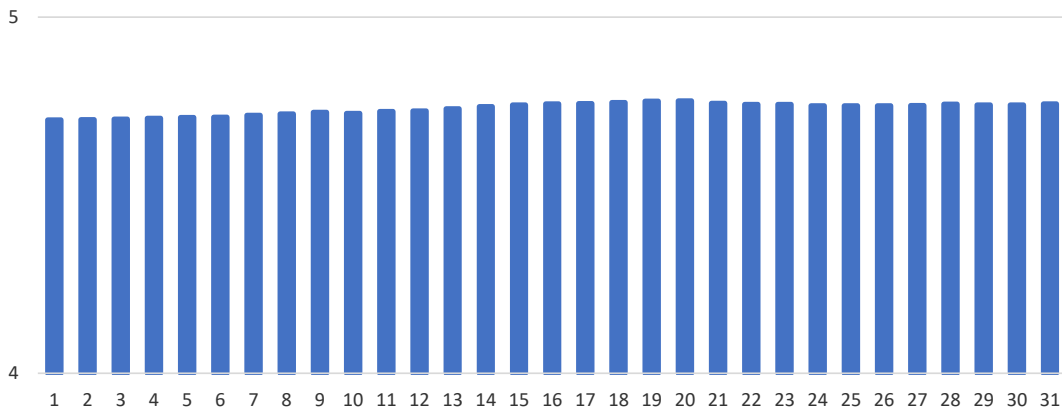
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Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-135	ARAUJO, GEMA	SPAIN	0,2	31	1,435	6010
CV-136	GARCÍA, FAUSTINO	SPAIN	0,1	21	0,848	3141
CV-139	ALONSO, JAVIER	SPAIN	0,0	18	0,000	3230
CV-151	CARELS, JEFFREY	BELGIUM	0,1	23	1,161	2427
CV-171	MALUF, WALTER JOSE	BRAZIL	0,0	28	0,000	1980
CV-177	BACKER, HENDRIK DE	BELGIUM	0,2	29	1,534	1361
CV-181	DERZIKOWSKI, ADAM	POLAND	0,0	7	0,000	858
CV-201	BASU, SANTANU	INDIA	0,0	19	0,000	268
CV-203	DEMEULENAERE, IVO	BELGIUM	0,1	21	0,848	335
CV-204	MEISTER, STEFAN	SWITZERLAND	0,0	18	0,000	234
CV-207	ONDREJOV OBS. (AI CA	CZECH REPUBLIC	0,1	22	0,809	4940
CV-208	NEYS, JOHAN	BELGIUM	0,1	12	0,742	206
CV-209	MORAES, CAIO CRESPO	BRAZIL	0,0	7	0,000	495
CV-210	BOURGEOIS, JEAN	BELGIUM	0,1	21	1,271	359
CV-211	CEUNINCK, EDWIN DE	BELGIUM	0,1	16	1,113	216
CV-212	ZAPATA MORALES, ANTONIO	SPAIN	0,0	31	0,000	110
CV-213	LAURENT, DIRK	BELGIUM	0,0	26	0,000	99
Totals	Observers 42	Days 31	CV 0,10	No 785	K 0,925	

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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	0,45	29	0	0,32	7,67	4,71	
2	0,00	24	0	0,00	7,67	4,71	
3	0,00	27	0	0,00	7,66	4,71	
4	0,00	26	0	0,00	7,65	4,72	
5	0,00	25	0	0,00	7,60	4,72	
6	0,00	24	0	0,00	7,54	4,72	
7	1,00	21	0	0,71	7,51	4,72	
8	0,58	24	0	0,41	7,44	4,73	
9	0,00	19	0	0,00	7,37	4,73	
10	0,00	23	0	0,00	7,28	4,73	
11	0,00	20	0	0,00	7,20	4,74	
12	0,00	27	0	0,00	7,12	4,74	
13	0,00	20	0	0,00	7,11	4,74	
14	0,00	22	0	0,00	7,10	4,75	
15	0,00	23	0	0,00	7,07	4,75	
16	0,00	27	0	0,00	7,05	4,76	
17	0,00	27	0	0,00	7,04	4,76	
18	0,00	24	0	0,00	7,02	4,76	
19	0,00	21	0	0,00	7,02	4,76	
20	0,00	28	0	0,00	6,99	4,76	
21	0,00	29	0	0,00	6,97	4,76	
22	0,91	32	0	0,64	6,96	4,75	
23	0,18	28	0	0,13	6,95	4,76	
24	0,00	32	0	0,00	6,93	4,75	
25	0,00	30	0	0,00	6,91	4,75	
26	0,00	28	0	0,00	6,89	4,75	
27	0,00	21	0	0,00	6,88	4,75	
28	0,00	18	0	0,00	6,88	4,76	
29	0,00	30	0	0,00	6,88	4,75	
30	0,00	29	0	0,00	6,88	4,75	
31	0,00	27	0	0,00	6,88	4,76	
Totals/ Avrgs	0,10	25,3	0,10	0,05	6,46	16,13	

CV and CV observers



CV-13 rot. per July 2019



Solar Region Summary for July 2019

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

2744-07.07.19-07.07.19-S27-209-2219-20-4-2,0-BXO

2745-22.07.19-23.07.19-N02-84-2219-0-1-1,0-AXX

:Product: Weekly Highlights and Forecasts

:Issued: 2019 Aug 12 0624 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

05 - 11 August 2019

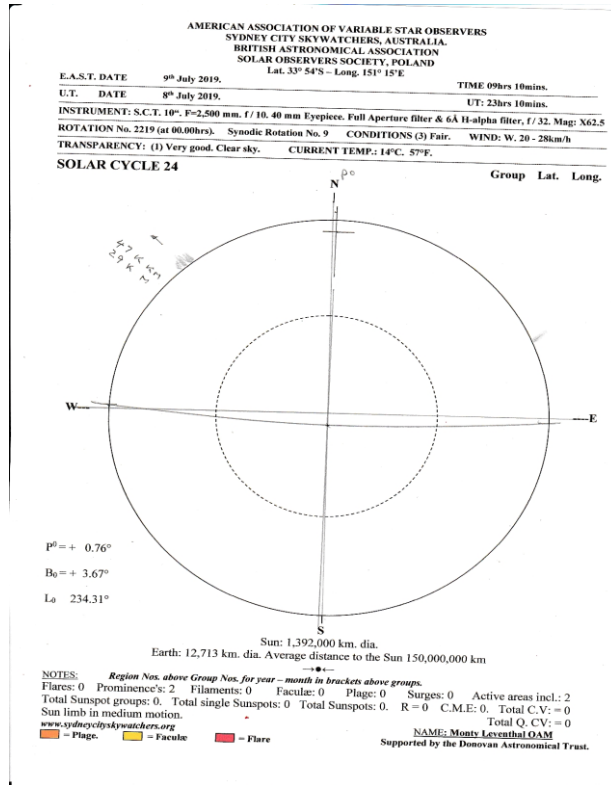
Solar activity was very low. No Earth-directed CMEs were observed during the period.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at moderate levels on 05 Aug and at high levels from 06-11 Aug. The largest flux of the period was 26,161 pfu observed at 07/1930 UTC.

Geomagnetic field activity was at quiet to G1 (Minor) storm levels over the period. The period began as a positive polarity coronal hole high speed stream (CH HSS) was becoming geoeffective. Total field increased to 23 nT by 05/0855 UTC as the Bz component became variable between +11 nT/-19 nT. Solar wind speed reached a maximum of 745 km/s at 06/0750 UTC. The geomagnetic field responded with four consecutive periods of G1 (Minor) storm levels on 05 Aug followed by quiet to unsettled levels on 06 Aug. Two further

Image Reports



July 2019's regions

In July 2019 we had only two tiny groups. Regions 2744 and 2745 only reached classes BXO and AXX and only stayed on disk for 1 day each. Region 2744 is an interesting one though, despite its short life, due to it was located at lat. S27, ie. belonging to solar cycle 25, the next solar cycle, expected to commence from March 2020.

left:
 Solar diagram
 from July 8, 2019
 by Monty Leventhal OAM
 Australia

Awards this month

CV-135 ARAUJO, GEMA: 6000 CV-obs. on 21.07.2019

1

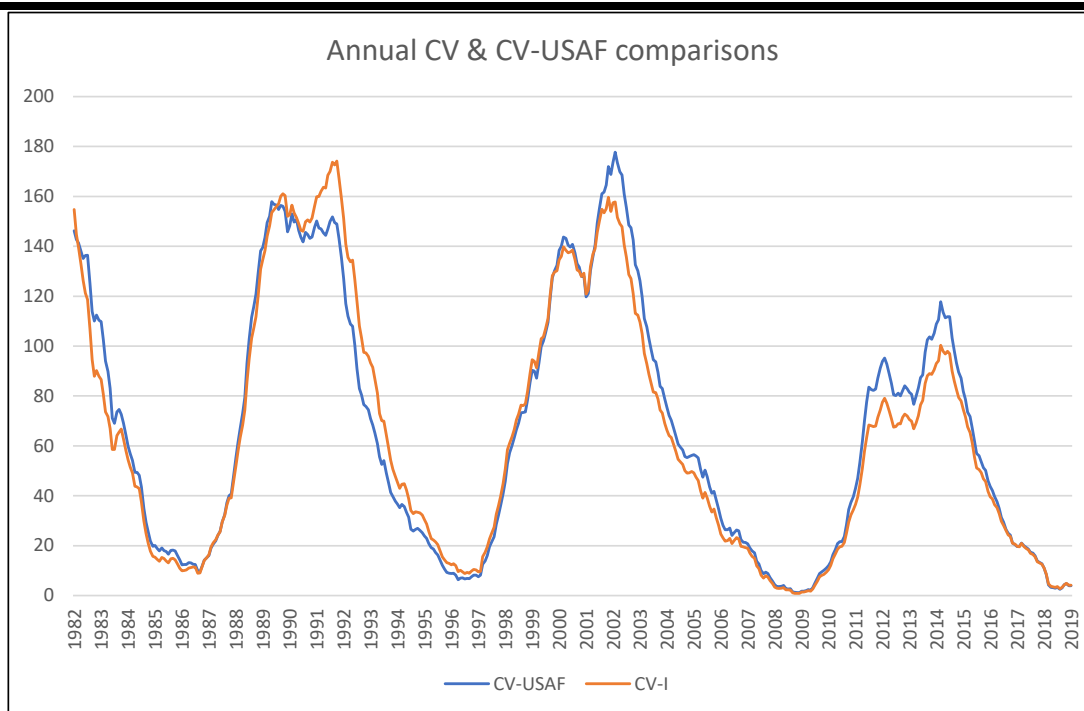
Congratulations!

New member:

We are now 47 active members (last 12 mo.)

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 2019 available at:

<https://www.cv-helios.net/helio2019/>

Here you can see Today's Po, Bo, Lo, Rotation no., RA and Dec. for the year 2019.

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

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!



Per July 2019: Registration time average last 40 entries: 15 hours 59 minutes

CV-Helios Network
- over 36 years in solar amateur astronomy service!

There are now 11156 entries registered
 containing 177869 CV-observations!

This MPR issued 15th August 2019



CV-Helios Network

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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: 15.08.2019 18:36 UTC