

Monthly Preliminary Report

MPR



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CV-Helios Network

Monthly Preliminary Report for March 2019

Solar Cycle 24: Month no. 125

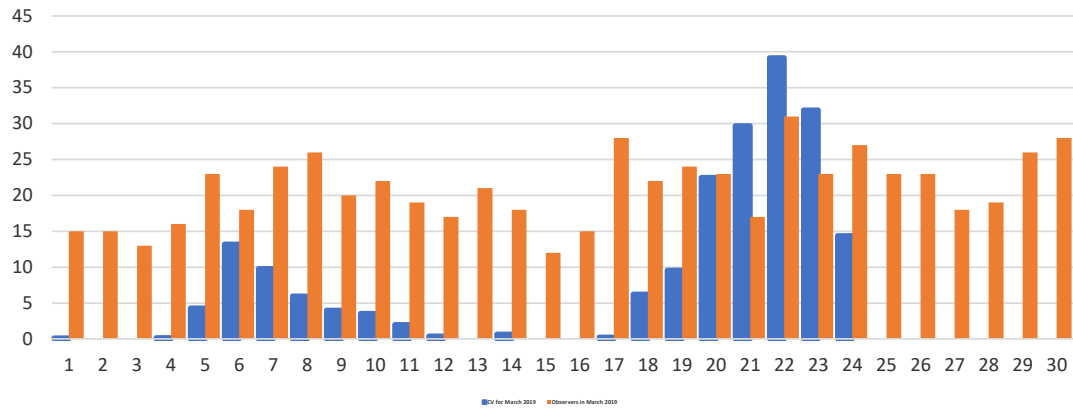
Report id.: cv1903.xls - CV-report no.: 452

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	9,9	15	1,343	8200
CV-009	BRAUCKHOFF, DIETER	GERMANY	11,6	25	1,574	944
CV-010	DUBOIS, FRANKY	BELGIUM	4,4	22	0,594	8347
CV-019	JUNKER, ELMAR	GERMANY	12,5	14	1,702	3315
CV-020	HOLL, MANFRED	GERMANY	5,8	15	0,790	5185
CV-021	BARNES, HOWARD	NEW ZEALAND	9,2	13	1,246	4159
CV-038	MORALES, GERMAN	BOLIVIA	6,6	28	0,895	6777
CV-040	BATTAIOLA, ROBERTO	ITALY	11,2	13	1,529	1740
CV-041	ROTHERMEL, JENS	GERMANY	17,6	5	2,396	1004
CV-044	SCHRÖDER, GERD	GERMANY	8,1	18	1,104	4150
CV-068	THIMM, SVEN OVE	DENMARK	8,5	12	1,157	3509
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	2,8	16	0,383	2771
CV-080	JANSSENS, JAN	BELGIUM	11,0	2	1,498	989
CV-082	URBANSKI, PIOTR	POLAND	7,8	28	1,065	4453
CV-086	TOS-POLAND	POLAND	7,9	31	1,076	7081
CV-091	DALEK, GRZEGORZ	POLAND	7,8	23	1,060	3853
CV-103	STEEN, OCTAAF	BELGIUM	6,6	20	0,899	4942
CV-104	MEEUS, LIEVE	BELGIUM	16,3	4	2,212	2203
CV-105	RYBACK, ALEXEY	RUSSIA	9,7	6	1,316	2803
CV-107	LEVENTHAL, MONTY	AUSTRALIA	10,1	17	1,378	4039
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	5,2	23	0,710	2250
CV-135	ARAUJO, GEMA	SPAIN	7,5	31	1,023	5888
CV-136	GARCÍA, FAUSTINO	SPAIN	4,3	24	0,584	3056
CV-139	ALONSO, JAVIER	SPAIN	3,2	25	0,436	3165
CV-151	CARELS, JEFFREY	BELGIUM	4,6	18	0,628	2325

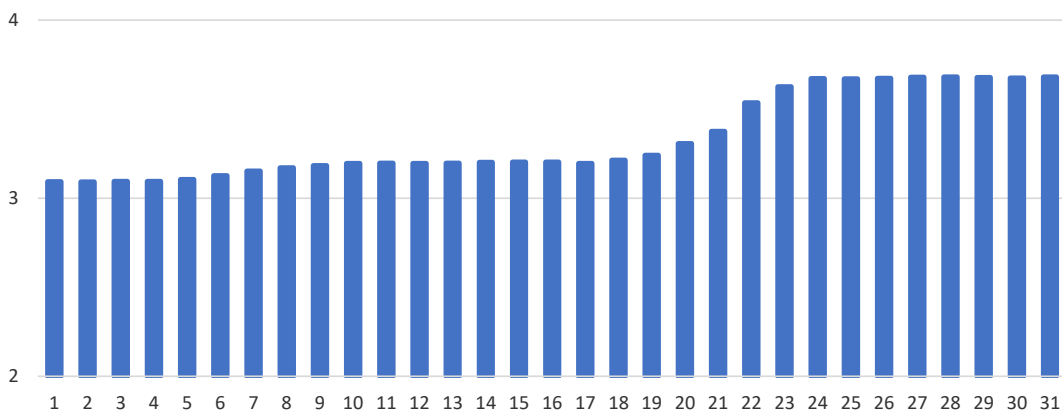
Results*CV-USAF prepared via data from
Joint USDC/NOAA, SWPC/USAF

Date	CV	Obsrvrs	*USAF-CV	std.dev.	CV-6 rot.	CV-13 rot.
1	0,13	15	0	0,09	1,80	3,09
2	0,00	15	0	0,00	1,81	3,09
3	0,00	13	0	0,00	1,81	3,09
4	0,19	16	0	0,13	1,82	3,09
5	4,30	23	5	0,49	1,86	3,10
6	13,22	18	5	5,81	1,95	3,13
7	9,79	24	8	1,27	2,04	3,15
8	5,96	26	7	0,73	2,10	3,17
9	4,00	20	10	4,24	2,13	3,18
10	3,55	22	10	4,56	2,16	3,19
11	2,00	19	1	0,71	2,18	3,20
12	0,41	17	1	0,42	2,16	3,20
13	0,00	21	0	0,00	2,04	3,20
14	0,67	18	0	0,47	1,90	3,20
15	0,00	12	0	0,00	1,83	3,20
16	0,00	15	0	0,00	1,82	3,20
17	0,25	28	0	0,18	1,81	3,20
18	6,23	22	2	2,99	1,87	3,21
19	9,58	24	5	3,24	1,95	3,24
20	22,48	23	32	6,73	2,15	3,31
21	29,71	17	32	1,62	2,35	3,38
22	39,16	31	47	5,54	2,80	3,54
23	31,91	23	47	10,67	3,09	3,63
24	14,37	27	25	7,52	3,23	3,67
25	0,00	23	0	0,00	3,21	3,67
26	0,00	23	0	0,00	3,17	3,67
27	0,00	18	0	0,00	3,15	3,68
28	0,00	19	0	0,00	3,14	3,68
29	0,00	26	0	0,00	3,13	3,68
30	0,00	28	0	0,00	3,11	3,67
31	2,14	29	0	1,51	3,13	3,68
Totals/ Avrgs	6,45	21,1	7,65	1,90	6,46	16,13

CV and CV observers



CV-13 rot. per March 2019



Solar Region Summary for March 2019

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

2734-05.03.19-12.03.19-N08-59-2214-20-3-5,9-CRO-CRO-CAO-HAX-HSX-HSX-AXX-AXX

2735-18.03.19-21.03.19-N03-257-2215-10-3-2,3-BXO-CRO-AXX-AXX

2736-20.03.19-24.03.19-N09-283-2215-50-5-36,2-DAC-DAC-EKI-EKI-DSO

2737-31.03.19-03.04.19-N12-59-2215-10-33-4,3-BXO-CRO-CAO-BXO

:Product: Weekly Highlights and Forecasts

:Issued: 2019 Apr 15 0125 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

08 - 14 April 2019

Solar activity was very low throughout the period. Region 2738 (N06, L=297, class/area Cho/300 on 12 Apr) produced numerous B-class flare activity and low frequency radio burst activity. No Earth-directed CMEs were observed.

No proton events were observed at geosynchronous orbit.

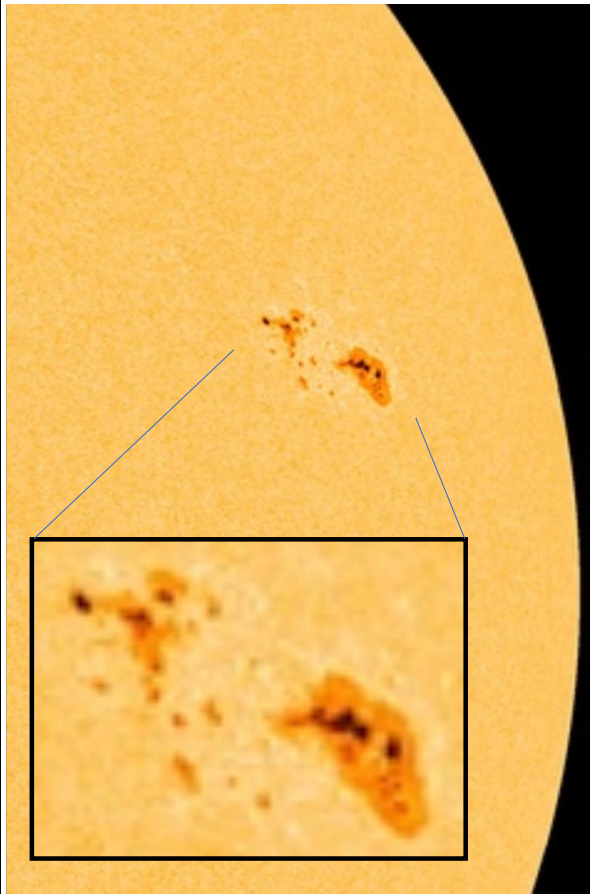
The greater than 2 MeV electron flux at geosynchronous orbit reached high levels throughout the period.

Geomagnetic field activity was at quiet to unsettled levels on 08-13 April due to negative polarity CH HSS influence. Isolated active levels were observed early on 08-10 April. Quiet levels were observed on 14 April.

Forecast of Solar and Geomagnetic Activity

15 April - 11 May 2019

Image Reports



March 2019's regions

Region 2736 was March 2019's big surprise!

This region (N08-283) suddenly appeared on March 22 at W35 of CM as a Dac 50 mvh. The region quickly developed and according to NOAA reached EKI (CV=47) 420 mvh big and by that the largest region since 2017 Sep10!

Region 2736 disappeared behind western limb already on the 24th, but it appeared that it actually returned April 7th.

In these minimum-approach days this was a bit like against all odds,

but wonders do happen still!

Region 2736 produced 12 C-class x-ray-flares and 43 optical flares!

More in next issue!

No new Awards this month

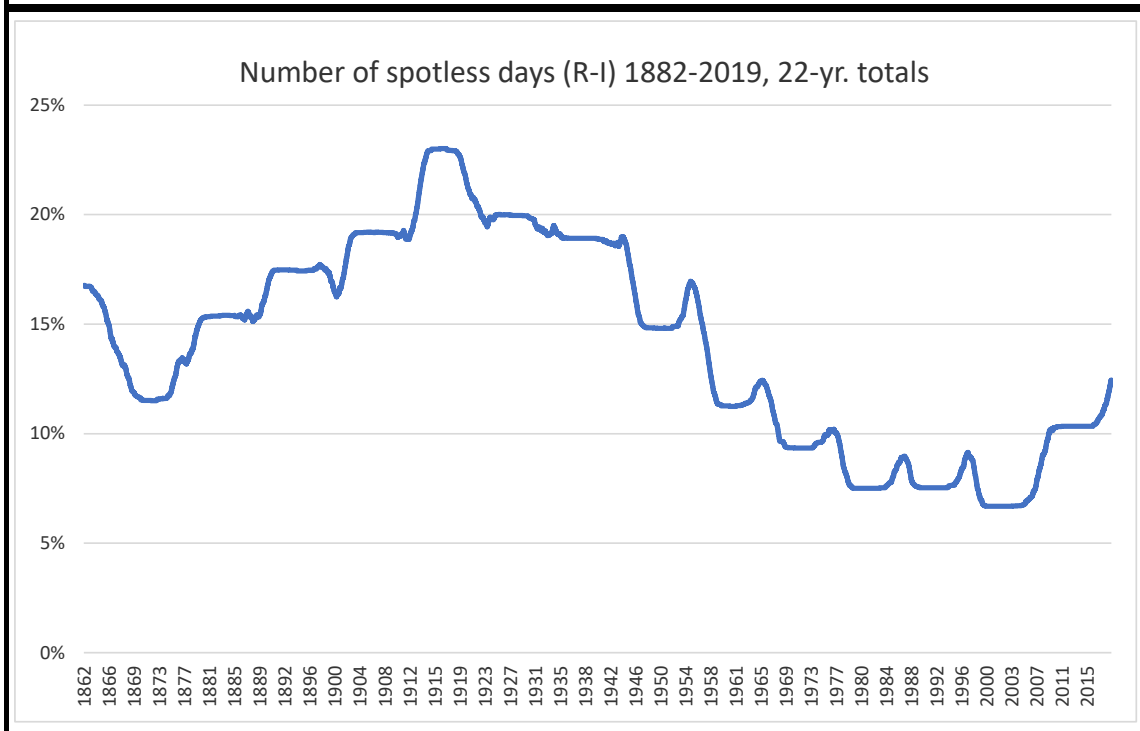
Upcoming observations from new observer

CV-212 Antonio Jesús Zapata Morales
will start his CV-observations commencing April

We are now 52 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:

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

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,

<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!



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

There are now 10988 entries registered
containing 174577 CV-observations!

This MPR issued 15th April 2019



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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: 15.04.2019 18:09 UTC