

Monthly Preliminary Report

MPR



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CV-Helios Network

Monthly Preliminary Report for January 2019

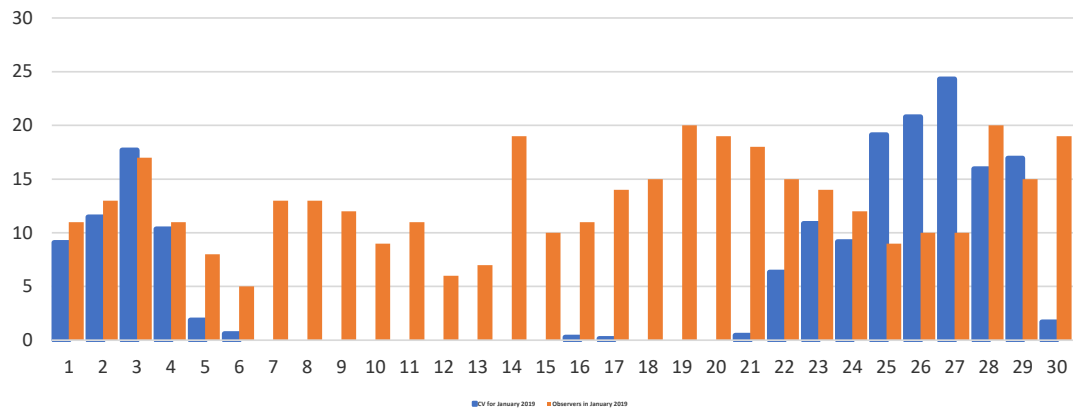
Solar Cycle 24: Month no. 123

Report id.: cv1901.xls - CV-report no.: 450

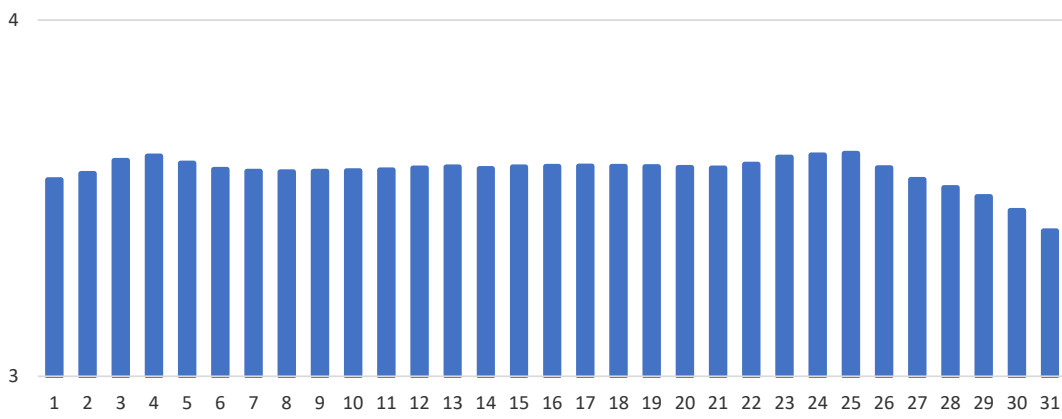
Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	2,9	19	0,497	8169
CV-009	BRAUCKHOFF, DIETER	GERMANY	9,9	15	1,695	896
CV-010	DUBOIS, FRANKY	BELGIUM	4,5	16	0,773	8301
CV-019	JUNKER, ELMAR	GERMANY	20,4	5	3,504	3289
CV-020	HOLL, MANFRED	GERMANY	3,1	13	0,529	5157
CV-021	BARNES, HOWARD	NEW ZEALAND	5,2	12	0,888	4134
CV-023	BRETSCHNEIDER, HAR	GERMANY	3,1	10	0,533	4736
CV-038	MORALES, GERMAN	BOLIVIA	8,6	25	1,484	6726
CV-040	BATTAIOLA, ROBERTO	ITALY	11,2	5	1,924	1722
CV-044	SCHRÖDER, GERD	GERMANY	2,0	5	0,344	4118
CV-068	THIMM, SVEN OVE	DENMARK	0,0	3	0,000	3497
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	6,2	13	1,057	2739
CV-080	JANSSENS, JAN	BELGIUM	0,0	1	0,000	983
CV-086	TOS-POLAND	POLAND	7,1	31	1,214	7022
CV-103	STEEN, OCTAAF	BELGIUM	5,4	18	0,935	4900
CV-104	MEEUS, LIEVE	BELGIUM	8,5	6	1,460	2191
CV-105	RYBACK, ALEXEY	RUSSIA	0,0	5	0,000	2793
CV-107	LEVENTHAL, MONTY	AUSTRALIA	4,8	17	0,829	4004
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	3,5	12	0,601	2207
CV-135	ARAUJO, GEMA	SPAIN	7,7	31	1,330	5829
CV-136	GARCÍA, FAUSTINO	SPAIN	2,6	13	0,449	3013
CV-139	ALONSO, JAVIER	SPAIN	7,3	16	1,245	3122
CV-151	CARELS, JEFFREY	BELGIUM	6,3	10	1,082	2289
CV-171	MALUF, WALTER JOSE	BRAZIL	9,0	23	1,554	1861
CV-177	BACKER, HENDRIK DE	BELGIUM	2,7	16	0,462	1192

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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	9,09	11	2	5,01	1,67	3,55
2	11,46	13	13	1,09	1,72	3,57
3	17,71	17	8	6,86	1,82	3,61
4	10,36	11	8	1,67	1,86	3,62
5	1,88	8	2	0,09	1,88	3,60
6	0,60	5	2	0,99	1,90	3,58
7	0,00	13	0	0,00	1,91	3,58
8	0,00	13	0	0,00	1,91	3,57
9	0,00	12	0	0,00	1,92	3,58
10	0,00	9	0	0,00	1,93	3,58
11	0,00	11	0	0,00	1,94	3,58
12	0,00	6	0	0,00	1,94	3,58
13	0,00	7	0	0,00	1,94	3,59
14	0,00	19	0	0,00	1,94	3,58
15	0,00	10	0	0,00	1,95	3,59
16	0,27	11	0	0,19	1,96	3,59
17	0,14	14	0	0,10	1,97	3,59
18	0,00	15	0	0,00	1,97	3,59
19	0,00	20	0	0,00	1,97	3,59
20	0,00	19	0	0,00	1,97	3,59
21	0,44	18	0	0,31	1,98	3,58
22	6,33	15	5	0,94	2,03	3,60
23	10,86	14	5	4,14	2,09	3,62
24	9,17	12	13	2,71	2,13	3,62
25	19,11	9	16	2,20	2,17	3,63
26	20,80	10	28	5,09	2,22	3,59
27	24,30	10	25	0,49	2,27	3,55
28	15,95	20	11	3,50	2,34	3,53
29	16,93	15	11	4,20	2,42	3,50
30	1,68	19	8	4,47	2,41	3,47
31	0,00	14	0	0,00	2,39	3,41
Totals/ Avrgs	5,71	12,9	5,06	1,42	6,46	16,13

CV and CV observers



CV-13 rot. per January 2019



Solar Region Summary for January 2019

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

2732-02.01.19-06.01.19-N09-214-2212-30-6-6,6-DRO-CAO-CAO-BXO-BXO

2733-22.01.19-31.01.19-N06-257-2213-20-4-13,5-CRO-CRO-DRO-DRO-DRI-DSI-DSO-CSO-CSO-CAO

:Product: Weekly Highlights and Forecasts

:Issued: 2019 Feb 11 0402 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

04 - 10 February 2019

Solar activity was at very low levels. There were no numbered sunspot regions. No Earth-directed CMEs were observed in available coronagraph imagery.

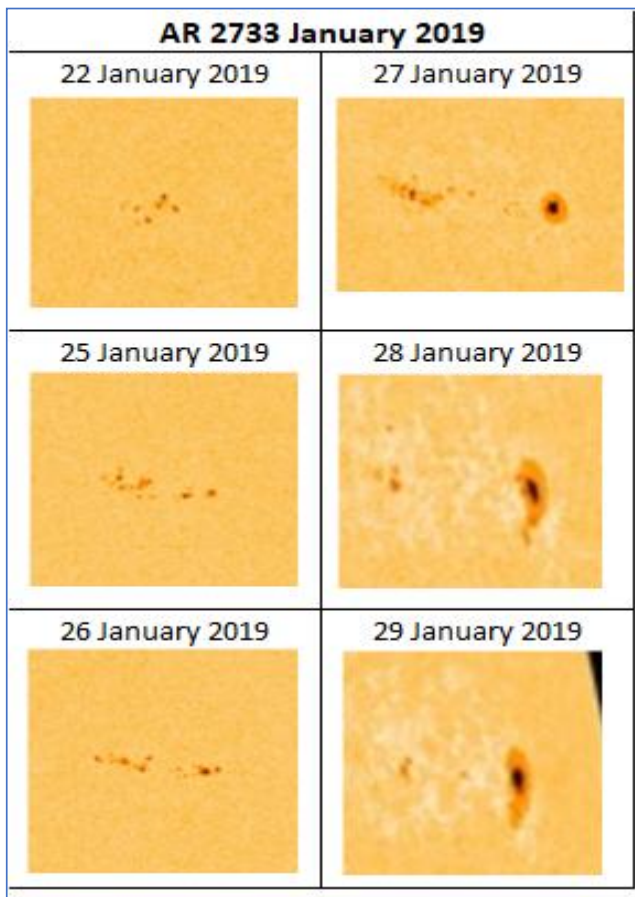
No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit ranged from moderate to high levels with a peak flux of 8,980 pfu observed on 04 Feb. High levels were observed on 04 Feb as a result of elevated solar wind speeds. Flux levels then ranged from moderate to high levels through 07 Feb under a mostly background solar wind regime, and remained at moderate to high levels through 10 Feb while under weak CH HSS influences.

Geomagnetic field activity ranged from quiet to active levels.

Unsettled periods were observed late in the day on 04 Feb into the first period of 05 Feb as solar wind speeds decreased from around

Image Reports



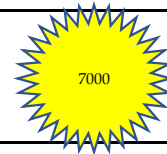
January 2019's primary

AR 2733 developed from Jan 22 until passing w-limb 31 Jan. new year!

This region belongs to the decaying solar cycle 24 and we saw a nice development that persisted until passing w limb. On Jan 27 the class and CV reached a DSI (CV=28) and the main spot developed a nice penumbra, giving promises for a return in February, but ended up as a now-show.

The region produced no big threats for major flares.

Congratulations to CV-086 TOS-POLAND
who passed 7000 CV-observations on 09 January 2019!



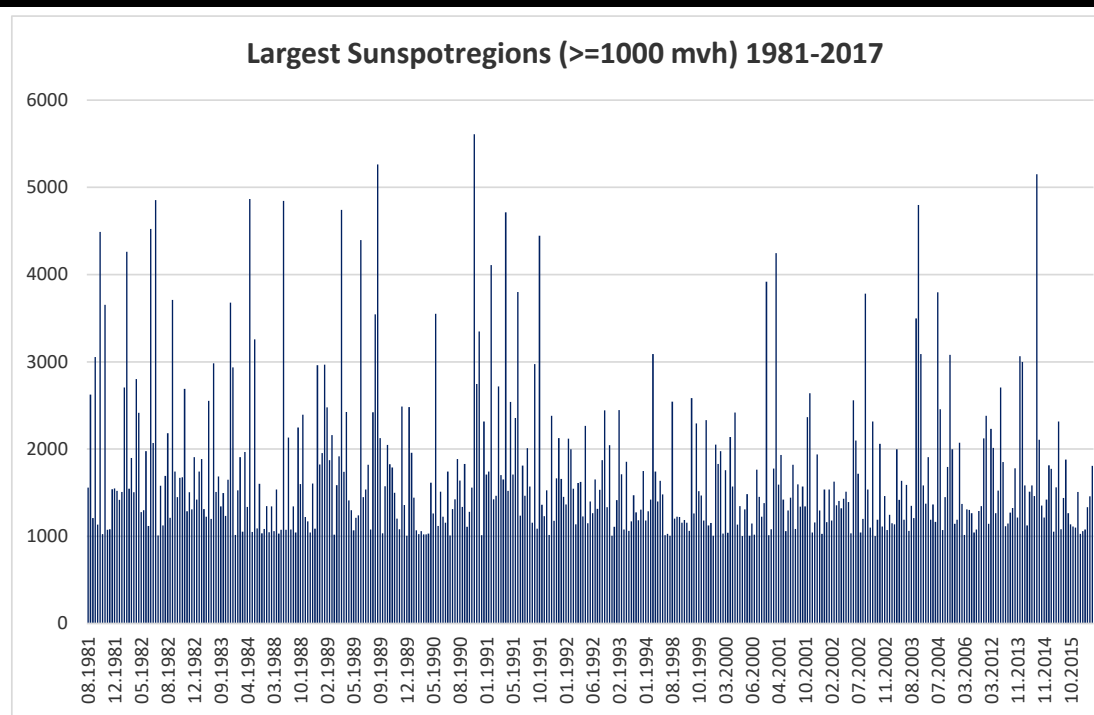
New member:

No new members this month

We are now 51 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/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,

<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 10909 entries registered
containing 173344 CV-observations!

This MPR issued 15th February 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: 15.02.2019 18:30 UTC