

# Monthly Preliminary Report

## MPR



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### CV-Helios Network

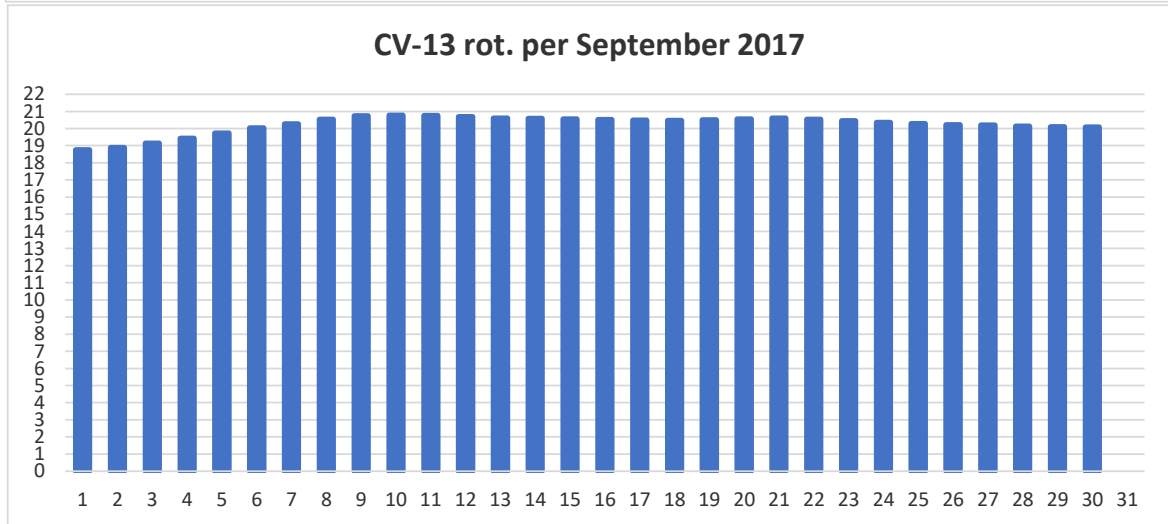
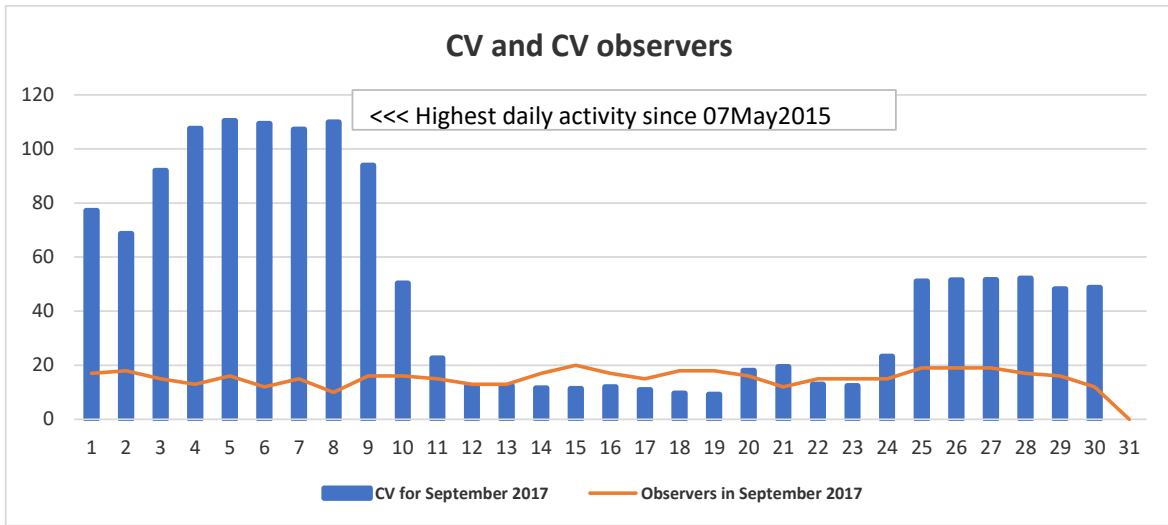
#### Monthly Preliminary Report for September 2017

Solar Cycle 24: Month no. 107

Report id.: cv1709.xls - CV-report no.: 434

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	51,8	18	0,966	7862
CV-010	DUBOIS, FRANKY	BELGIUM	47,3	27	1,046	6968
CV-019	JUNKER, ELMAR	GERMANY	23,3	3	1,769	3177
CV-020	HOLL, MANFRED	GERMANY	41,1	15	0,653	4882
CV-021	BARNES, HOWARD	NEW ZEALAND	40,3	6	1,080	3955
CV-023	BRETSCHNEIDER, HAR	GERMANY	42,7	18	0,858	4495
CV-038	MORALES, GERMAN	BOLIVIA	52,9	28	0,953	6308
CV-044	SCHRÖDER, GERD	GERMANY	50,5	23	1,004	3867
CV-068	THIMM, SVEN OVE	DENMARK	25,9	13	0,675	3408
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	43,8	21	0,993	2491
CV-080	JANSENS, JAN	BELGIUM	42,1	9	1,266	902
CV-082	URBANSKI, PIOTR	POLAND	44,7	18	1,071	4150
CV-086	TOS-POLAND	POLAND	50,9	29	1,040	6534
CV-091	DALEK, GRZEGORZ	POLAND	48,2	13	1,051	3548
CV-102	MOSER, PAULO ROBER	BRAZIL	46,9	25	0,966	2052
CV-103	STEEN, OCTAAF	BELGIUM	47,8	27	1,020	4506
CV-104	MEEUS, LIEVE	BELGIUM	16,8	5	0,651	2090
CV-105	RYBACK, ALEXEY	RUSSIA	31,9	7	1,008	2651
CV-107	LEVENTHAL, MONTY	AUSTRALIA	60,0	24	1,679	3714
CV-116	BJERKGÅRD, TERJE	NORWAY	60,4	13	1,057	794
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	41,8	9	0,826	1937
CV-135	ARAUJO, GEMA	SPAIN	50,4	30	0,989	5354
CV-136	GARCÍA, FAUSTINO	SPAIN	41,9	20	0,770	2911
CV-139	ALONSO, JAVIER	SPAIN	32,4	27	0,801	2835
CV-151	CARELS, JEFFREY	BELGIUM	44,0	16	0,991	2017
CV-181	DERDZIKOWSKI, ADAM	POLAND	58,0	1	1,190	747
CV-202	ZAMORA, JORDI	SPAIN	49,5	24	1,052	339
Totals	Observers	Days	CV	No	K	
	27	30	43,98	469	1,016	

Volume 37 Number 9		MPR 434		September 2017		ISSN 2535-3780	
<b>Results</b>							
Date	CV	Obsrvrs	USAF	std.dev.	CV-6 rot.	CV-13 rot.	
1	77,18	17	60,84	11,55	21,23	18,75	
2	68,72	18	52,73	11,31	21,64	18,89	
3	92,07	15	75,52	11,70	22,19	19,14	
4	107,62	13	91,32	11,52	22,83	19,43	
5	110,44	16	94,23	11,46	23,45	19,73	
6	109,42	12	93,18	11,48	24,05	20,03	
7	107,27	15	90,96	11,53	24,65	20,28	
8	109,90	10	93,68	11,47	25,28	20,54	
9	93,94	16	77,40	11,70	25,81	20,73	
10	50,31	16	35,76	10,29	26,00	20,77	
11	22,67	15	12,83	6,96	25,94	20,75	
12	12,23	13	5,55	4,72	25,73	20,68	
13	12,46	13	5,70	4,78	25,47	20,61	
14	11,53	17	5,11	4,54	25,16	20,58	
15	11,40	20	5,03	4,50	24,81	20,56	
16	11,94	17	5,37	4,65	24,46	20,52	
17	10,93	15	4,74	4,38	24,03	20,49	
18	9,61	18	3,94	4,01	23,46	20,48	
19	9,17	18	3,68	3,88	23,13	20,50	
20	18,06	16	9,48	6,07	22,94	20,55	
21	19,42	12	10,45	6,34	22,81	20,60	
22	13,00	15	6,05	4,92	22,80	20,54	
23	12,47	15	5,71	4,78	22,87	20,45	
24	23,27	15	13,28	7,06	23,00	20,35	
25	51,11	19	36,46	10,35	23,28	20,29	
26	51,47	19	36,79	10,38	23,54	20,23	
27	51,63	19	36,94	10,39	23,80	20,19	
28	52,12	17	37,37	10,43	24,08	20,14	
29	48,19	16	33,87	10,13	24,34	20,10	
30	48,75	12	34,37	10,17	24,63	20,09	
31							
Totals/ Avrgs	<b>47,61</b>	<b>15,6</b>	<b>35,94</b>	<b>8,25</b>	<b>23,91</b>	<b>20,23</b>	



**Solar Region Summary for September 2017**Reg.-First day-Last day-Lat.-Lon.-Rot.-Area-Lgth.-CVtot.-class14d

2673-02.09.17-10.09.17-S08-119-2194-80-2-43,0-HSX-CSO-DSC-DKC-DKC-EKC-EKC-DKC-DKC

2674-02.09.17-12.09.17-N13-104-2194-770-16-46,7-FHI-FHC-FHC-FHI-FHI-FKI-FKO-FKO-FKO-FKO-HRX

2675-02.09.17-06.09.17-S08-179-2194-30-6-3,8-CRO-CRO-CRO-BXO-BXO

2676-03.09.17-06.09.17-S10-164-2194-20-4-2,8-BXO-BXO-CRO-BXO

2677-04.09.17-09.09.17-N19-51-2194-10-1-1,2-AXX-AXX-AXX-AXX-BXO-AXX

2678-06.09.17-11.09.17-N11-44-2194-10-4-5,8-BXO-CSO-HAX-CRO-CRO-CRO

2679-08.09.17-09.09.17-N14-89-2194-10-3-2,0-BXO-BXO

2680-11.09.17-23.09.17-N09-317-2194-100-2-9,8-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HAX-HSX-HSX-HSX-HSX-HSX

2681-21.09.17-02.10.17-S12-178-2195-60-2-10,3-HSX-HSX-HSX-CSO-HSX-CSO-CSO-HSX-HSX-HSX-HSX-HSX

2682-25.09.17-07.10.17-S09-127-2195-180-3-9,1-HSX-HAX-HAX-HAX-CAO-CAO-CSO-HSX-HSX-HSX-HSX-HSX-HSX

**:Product: Weekly Highlights and Forecasts**

:Issued: 2017 Oct 02 0329 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>

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# Weekly Highlights and Forecasts

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Highlights of Solar and Geomagnetic Activity

25 September - 01 October 2017

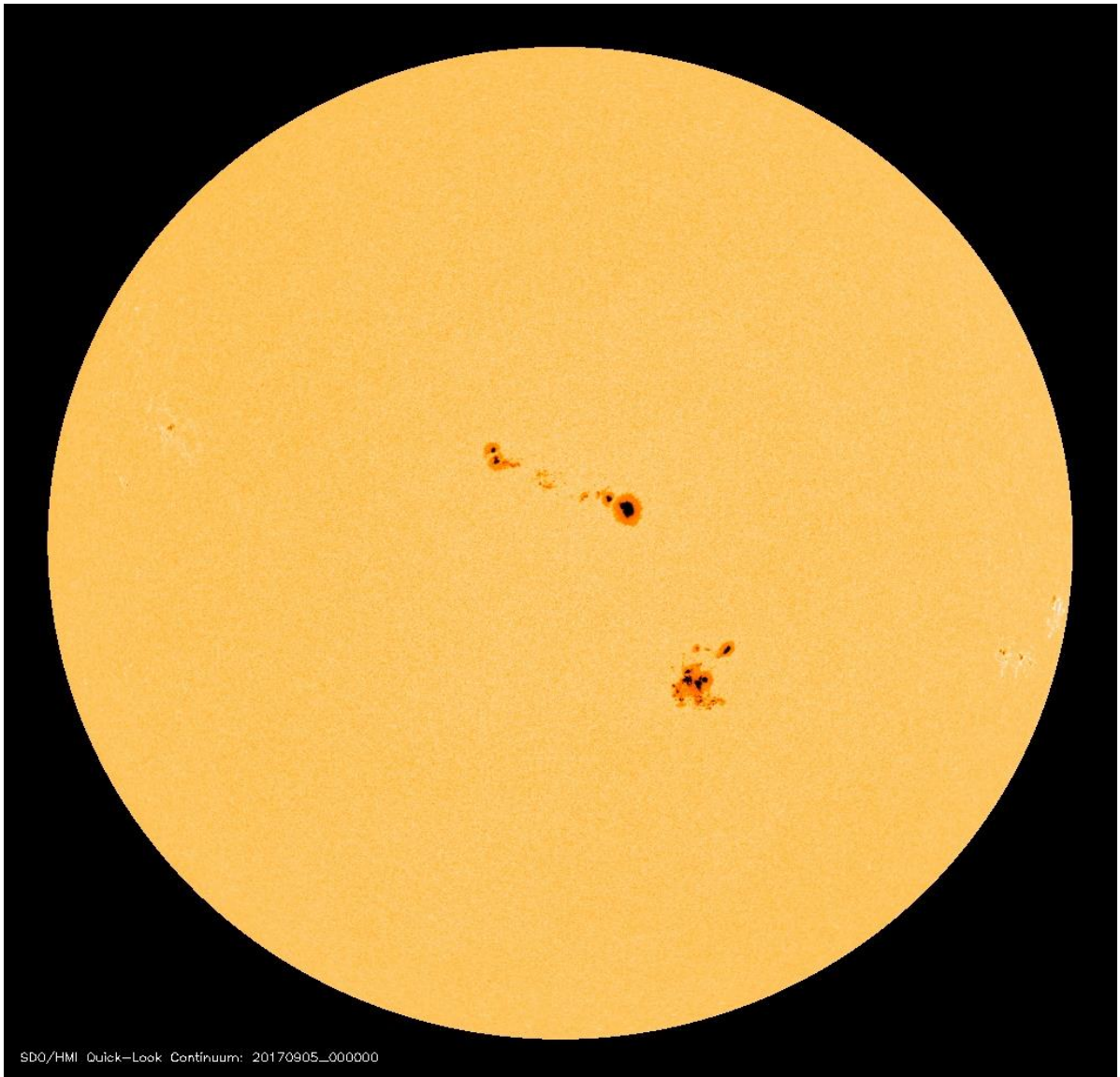
Solar activity was at low levels. Region 2683 (N14, L=119, class/area Hkx/280 on 28 Sep) produced the strongest flare of the period, a C1 at 26/0234 UTC. All active regions on the disk remained relatively quiet, simple and stable. No Earth-directed CMEs were observed during the reporting period.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit ranged from normal background to very high levels. Normal background levels on 25 Sep increased to moderate levels on 26-27 Sep. A further increase to high levels on 28-29 Sep and 01 Oct, with a peak of very high levels on 30 Sep, was observed in response to activity generated by a positive polarity CH HSS. A maximum flux of 52,054 pfu was observed at 30/1635 UTC.

Geomagnetic field activity ranged from quiet to G3 (Strong) storm levels in response to a positive polarity CH HSS. Quiet to unsettled conditions on 25 Sep and quiet conditions at 26 Sep gave way to G2

**Image Reports**



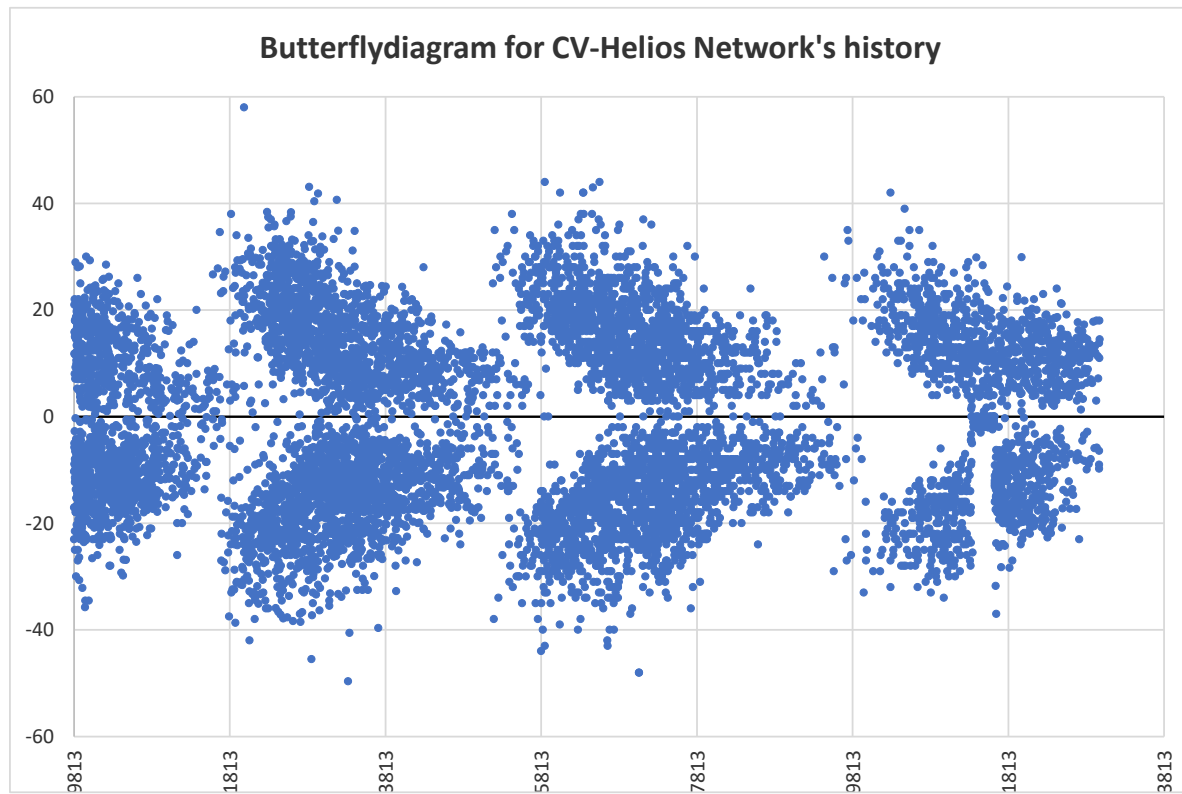
SDO/HMI Quick-Look Continuum: 20170905\_000000

**SOHO image from 2017 Sep 05 at 0000 UTC.**

Activity reached its highest CV since 2015 Jan 31 with 142.

Solar Flux reached 182,5 on 2017 Sep 04, highest since 2015 Jun 22

**Welcome to new CV-member CV-204 Stefan Meister!**



### Want Solar Coordinates?

Daily list of Solar Ephemeris for 2017 available at:

<http://www.cv-helios.net/helio2017/>

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:

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>

**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 9961 entries  
with 158171 CV-observations registered!



**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  
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Editorial close: 15.10.2017 17:54 UTC