

# Monthly Preliminary Report

## MPR



Kjell Inge Malde, Director/Editor  
Børeholen 20, N-4085 Hundvaag NORWAY

Web: <http://www.cv-helios.net>  
Email: [cvhelios@gmail.com](mailto:cvhelios@gmail.com)

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### CV-Helios Network

#### Monthly Preliminary Report for August 2017

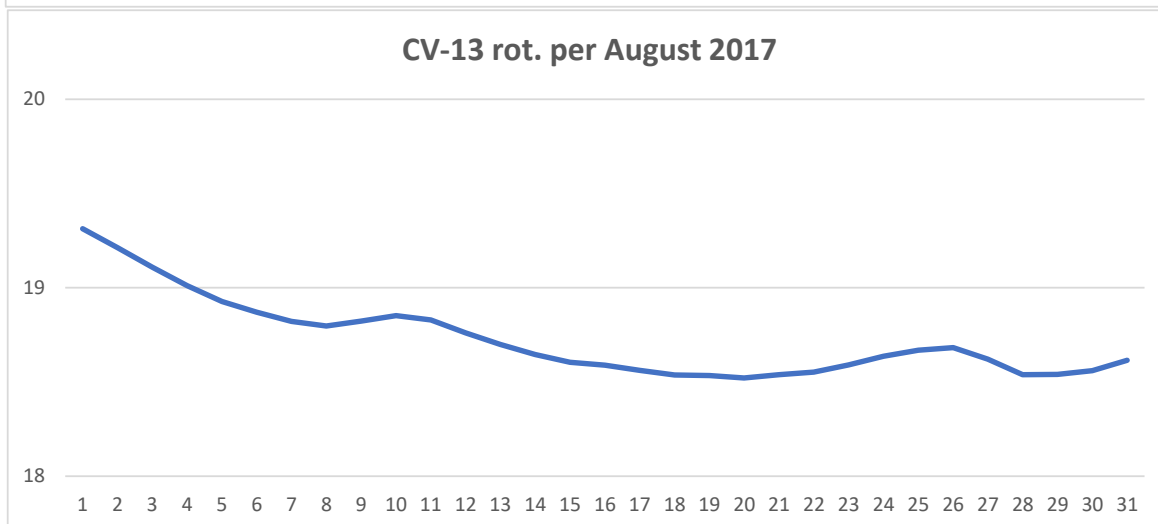
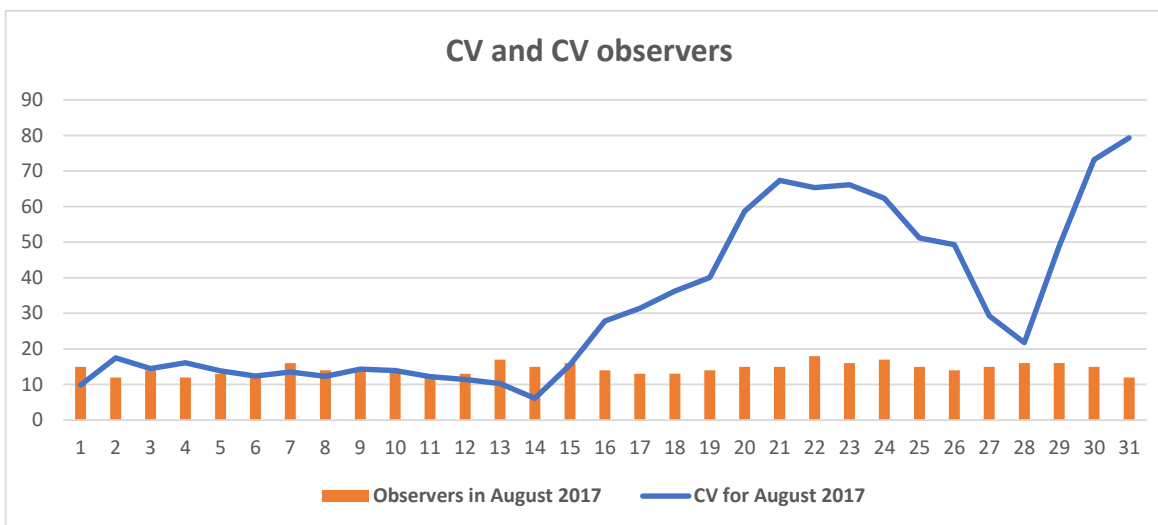
Solar Cycle 24: Month no. 106

Report id.: cv1708.xls - CV-report no.: 433

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	30,4	14	1,063	7844
CV-010	DUBOIS, FRANKY	BELGIUM	41,0	21	1,236	6941
CV-020	HOLL, MANFRED	GERMANY	32,0	24	0,815	4867
CV-021	BARNES, HOWARD	NEW ZEALAND	51,3	10	1,304	3949
CV-023	BRETSCHNEIDER, HART	GERMANY	31,1	27	0,907	4477
CV-038	MORALES, GERMAN	BOLIVIA	33,7	30	1,158	6280
CV-041	ROTHERMEL, JENS	GERMANY	26,0	5	0,916	939
CV-044	SCHRÖDER, GERD	GERMANY	37,9	25	1,009	3844
CV-080	JANSSENS, JAN	BELGIUM	38,8	5	1,025	893
CV-082	URBANSKI, PIOTR	POLAND	31,0	27	1,047	4132
CV-086	TOS-POLAND	POLAND	31,5	31	0,977	6505
CV-091	DALEK, GRZEGORZ	POLAND	29,6	24	0,976	3535
CV-102	MOSER, PAULO ROBER	BRAZIL	27,4	19	0,751	2027
CV-103	STEEN, OCTAAF	BELGIUM	31,6	30	0,945	4479
CV-105	RYBACK, ALEXEY	RUSSIA	39,0	14	1,135	2644
CV-107	LEVENTHAL, MONTY	AUSTRALIA	30,2	26	0,864	3690
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	22,2	22	0,712	1928
CV-135	ARAUJO, GEMA	SPAIN	27,5	31	0,949	5324
CV-136	GARCÍA, FAUSTINO	SPAIN	21,2	18	0,743	2891
CV-171	MALUF, WALTER JOSE	BRAZIL	82,1	10	2,465	1574
CV-181	DERDZIKOWSKI, ADAM	POLAND	43,4	8	1,233	746
CV-202	ZAMORA, JORDI	SPAIN	32,6	27	0,906	315
Totals	Observers	Days	CV	No	K	
	22	31	35,07	448	1,052	

**Results**

Date	CV	Obsrvrs	USAF	std.dev.	CV-6 rot.	CV-13 rot.
1	9,87	15	4,10	4,08	16,62	19,31
2	17,50	12	9,08	5,95	16,70	19,21
3	14,50	14	7,03	5,28	16,77	19,11
4	16,08	12	8,10	5,64	16,85	19,01
5	13,85	13	6,60	5,12	16,92	18,93
6	12,38	13	5,65	4,76	16,98	18,87
7	13,50	16	6,37	5,04	16,92	18,82
8	12,29	14	5,59	4,73	16,87	18,80
9	14,36	14	6,94	5,25	16,82	18,82
10	13,93	14	6,65	5,14	16,80	18,85
11	12,25	12	5,57	4,73	16,78	18,83
12	11,38	13	5,02	4,50	16,74	18,76
13	10,29	17	4,35	4,20	16,69	18,70
14	6,13	15	2,02	2,91	16,60	18,65
15	15,56	16	7,75	5,53	16,44	18,60
16	27,86	14	16,81	7,81	16,40	18,59
17	31,38	13	19,62	8,32	16,42	18,56
18	36,23	13	23,59	8,94	16,57	18,54
19	40,07	14	26,82	9,37	16,81	18,53
20	58,67	15	43,33	10,85	17,11	18,52
21	67,33	15	51,41	11,26	17,50	18,54
22	65,33	18	49,53	11,18	17,89	18,55
23	66,19	16	50,33	11,21	18,28	18,59
24	62,35	17	46,74	11,04	18,66	18,64
25	51,13	15	36,49	10,35	18,96	18,67
26	49,29	14	34,84	10,21	19,25	18,68
27	29,33	15	17,98	8,03	19,43	18,62
28	21,75	16	12,15	6,79	19,56	18,54
29	48,94	16	34,53	10,19	19,85	18,54
30	73,20	15	57,00	11,46	20,28	18,56
31	79,33	12	62,93	11,60	20,76	18,62
Totals/ Avrgs	<b>32,33</b>	<b>14,5</b>	<b>21,77</b>	<b>7,47</b>	<b>17,59</b>	<b>18,73</b>



**Solar Region Summary for August 2017**

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

2670-03.08.17-14.08.17-S05-119-2193-160-4-10,1-CSO-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX-HSX

2671-15.08.17-27.08.17-N11-306-2193-70-4-39,4-HAX-EAI-EHC-FKC-FKC-FKC-FKC-FKC-FSI-FSI-FSI-FAI-FAI

2672-21.08.17-28.08.17-N05-225-2194-120-5-22,5-DAO-DAO-DAO-ESI-ESI-EAI-EAI-DAO

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**:Product: Weekly Highlights and Forecasts**

:Issued: 2017 Sep 11 0813 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>

#

# Weekly Highlights and Forecasts

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Highlights of Solar and Geomagnetic Activity

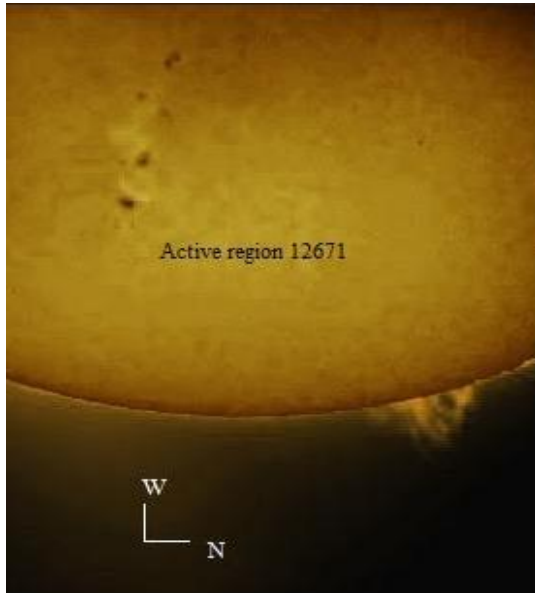
04 - 10 September 2017

Solar activity was at moderate to high levels. Moderate levels were observed on 09 Sep while high levels were observed for the rest of the period. Region 2673 (S09, L=119, class/area Dkc/1060 on 08 Sep) quickly overtook Region 2674 (N14, L=103, class/area Fhc/930 on 03 Sep) in terms of area and magnetic complexity. Region 2673 maintained a very active beta-gamma-delta magnetic group from 04 Sep until it rotated onto the western limb on 10 Sep. This region managed to produce a total of 54 C-flares, 26 M-flares, and 4 X-flares. On 04 Sep, there was an M5/3b flare (R2-Moderate) at 04/2033 UTC with an associated 2100 sfu Tenflare, Type II (estimated velocity 1,472 km/s) radio sweep, and an asymmetric full halo CME first observed in SOHO/LASCO C2 imagery at 04/2048 UTC. On 06 Sep, there was an X9/2b flare (R3-Strong) that occurred at 06/1202 UTC with an associated 14,000 sfu Tenflare, Type II (estimated velocity 1,765 km/s) and Type IV radio sweeps, and an asymmetric full halo CME first observed in SOHO/LASCO C2 imagery at 06/1224 UTC. On 10 Sep, an X8 flare (R3-Strong) occurred at 10/1606 UTC with an associated 1,900 sfu Tenflare, Type II (estimated velocity 928 km/s) and Type IV radio sweeps and an asymmetric full halo CME first

**Image Reports**

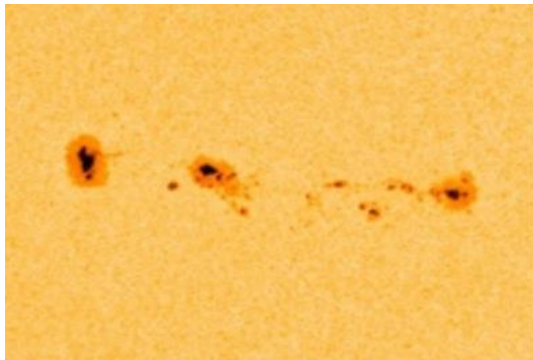
CV-107 Monty Leventhal:

17 Aug 2017 Digital filtergram showing Active region 12671  
and a Arched type Prominence on the NE limb

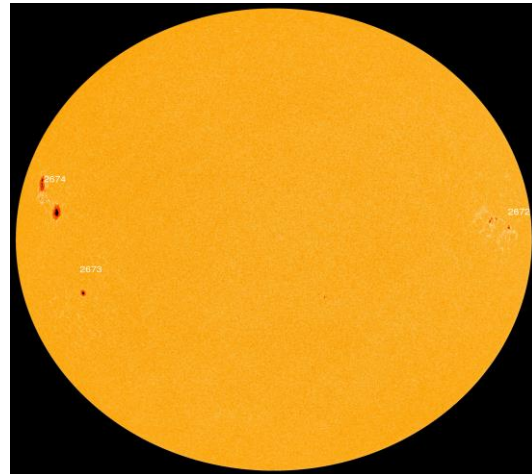


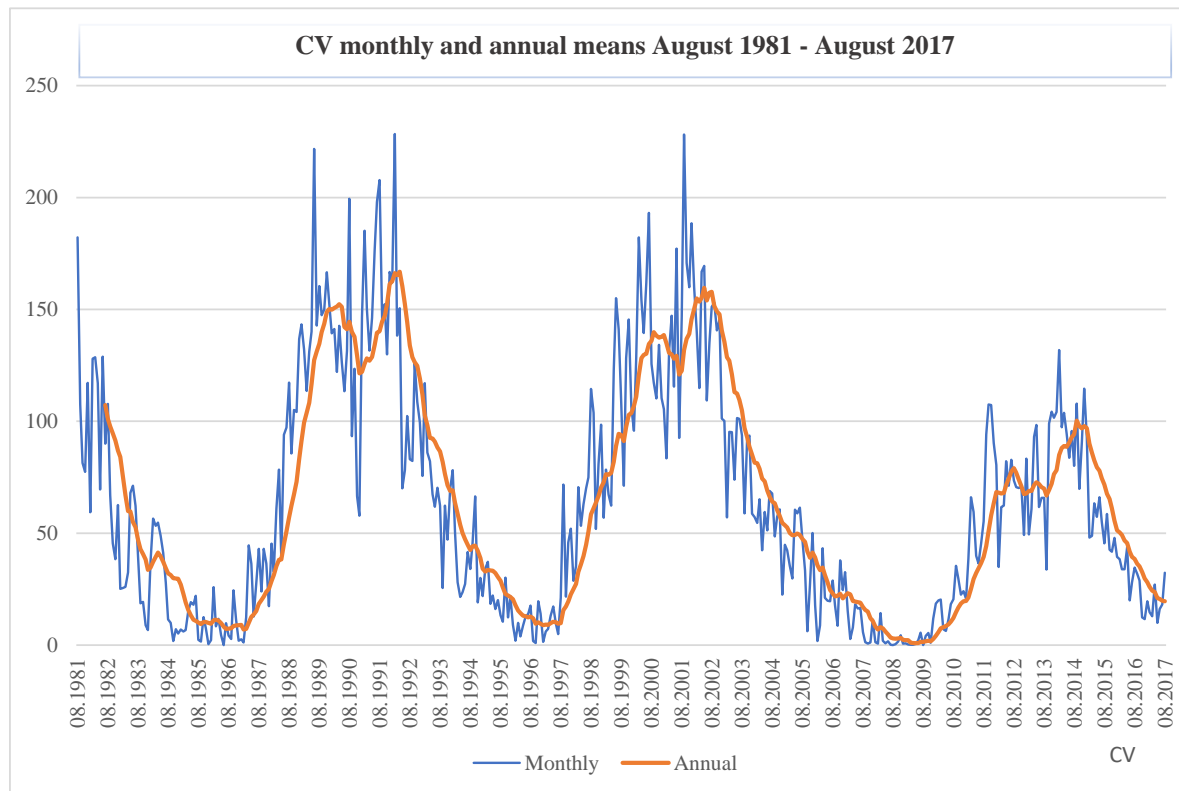
Monty Leventhal OAM. August 17th 2017. 22.45 UT.  
Supported by the Donovan Astronomical Trust.

AR 2671 on 19Aug 2017, class Fkc (CV=57)



Sunspots 31 Aug 2017, before breakout:





### 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  
157647 CV-observations registered!



**CV-Helios Network**

Director/Coordinator: Kjell Inge Malde

Phone: +47 98 69 28 56

[cvhelios@gmail.com](mailto:cvhelios@gmail.com)

[www.cv-helios.net](http://www.cv-helios.net)

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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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