



## *Monthly Report on Solar activities*



August 2008

**Astronomical Society of Southern Africa, Solar Section**

Issue 66

**Hi Solar friends,**

As the emphasis in the ASSA group is on observations in the different sections, we in the solar group want to develop a professional platform for you the observer where you can participate in national and international solar observations.

Observations are used to calculate a monthly Southern African sunspot number and are published in the report section of this bulletin. A two monthly report on observations will be send to MNASSA for publication.

Solar observations are still an open field in Southern Africa amateur astronomy and we like to invite you to become part of the ASSA solar section.

Information on how to become involved in solar observations can be obtained from the solar section of ASSA at: [jvdelft.solar@starmail.co.za](mailto:jvdelft.solar@starmail.co.za)

*Keep looking at the sunny side of life,  
It keeps the shadows behind you!*

Regards,

Jacques van Delft  
Director solar section  
ASSA, Southern Africa

### **OBSERVERS**

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Jim&Shirley Knight	(KNJS)	Boksburg	Gauteng	South Africa
Howard Barnes	(BARH)	Auckland		New Zealand
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Frikkie de Bruin	(DEBF)			South Africa
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## SOLAR REPORT AUGUST 2008

Aug-08	Sunspots	Bz pos	Bz neg	Protons	Solarwind	X - Ray	Geo-magn.
1	0	4	-2	7	430	A0	7.23
2	0	2	-4	6	370	A0	4.48
3	0	4	-4	10	380	A0	8.56
4	0	5	-3	5	350	A0	5.28
5	0	4	-2	5	340	A0	5.83
6	0	5	-3	7	400	A0	7.97
7	0	4	-4	8	380	A0	8.26
8	0	2	0	12	380	A0	NA
9	0	7	-7	9	700	A0	NA
10	0	5	-5	3	680	A0	NA
11	0	4	-3	2	650	A0	15.23
12	0	4	-3	4	580	A0	18.60
13	0	3	-2	3	490	A0	13.65
14	0	3	-1	6	465	A0	12.48
15	0	2	-2	6	420	A0	12.49
16	0	5	-7	29	370	A0	13.46
17	0	4	-5	19	390	A0	22.08
18	0	6	-8	10	670	A0	41.24
19	0	4	-4	2	620	A0	23.73
20	0	3	-2	2	520	A0	11.35
21	0	3	-3	4	440	A0	8.65
22	0	1	-3	6	380	A0	10.65
23	0	2	-2	13	346	A0	7.84
24	0	1	-2	13	326	A0	7.39
25	0	1	-1	3	305	A0	4.68
26	0	2	-2	8	335	A0	6.03
27	0	4	-1	8	340	A0	7.35
28	0	5	-5	6	350	A0	6.79
29	0	5	-2	12	350	A0	5.72
30	0	4	-1	8	360	A0	5.17
31	0	6	-5	7	360	A0	4.34

Explanation: Cnts = Sunspot counting's (MDF totals)  
 Days = Amount of days counting's were taken  
 DMF = Daily Mean Frequency  
 MMF = Monthly Mean Frequenc

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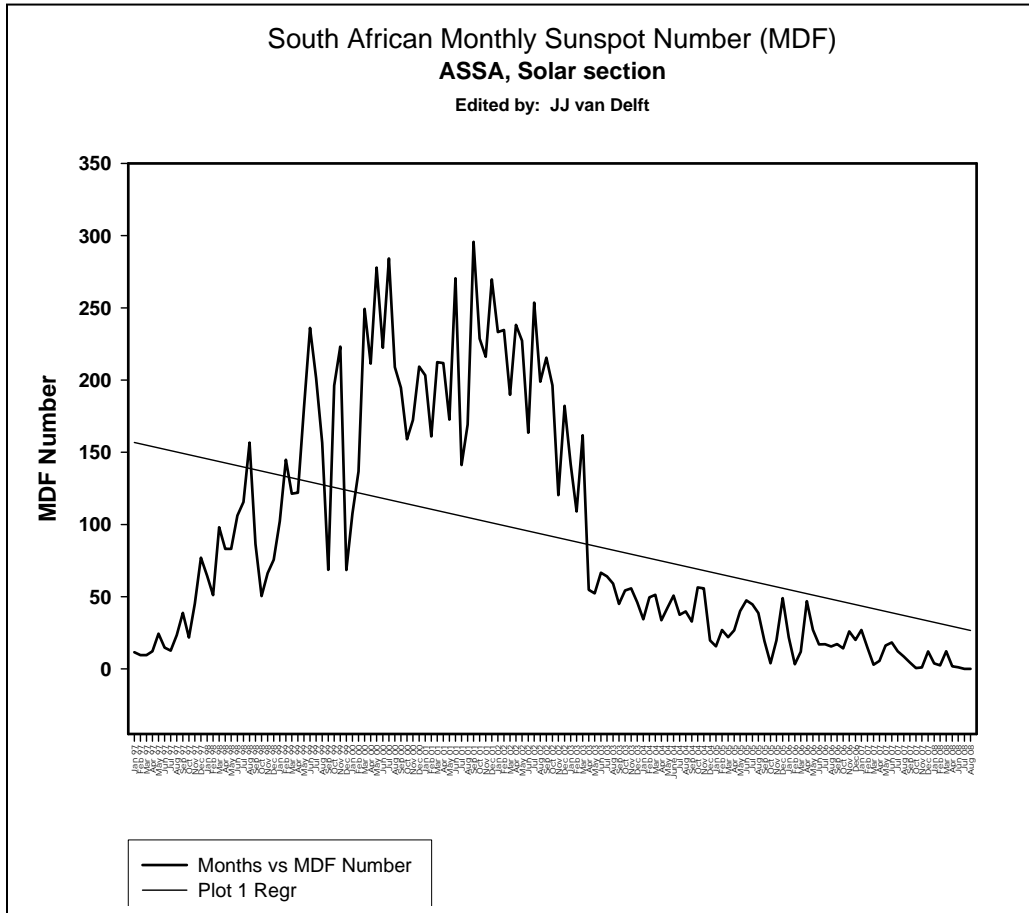
## SOLAR ACTIVITIES

Solar activities stayed very low this month and only some disturbance in the atmosphere caused by minor storm activities were measured. It seems that the coronal hole activity slightly declines. Is this part of the turn in the cycle?

Jul-08	Bz pos	Bz neg	Protons	Solarwind	X - Ray	Geo- magn.	Low Press	Ci Index
1	3	-3	2	460	A0	12.81	5	2.562
2	2	-2	0.6	400	A0	6.98	5	1.396
3	3	-2	10	350	A0	4.28	4	1.070
4	2	-4	8	350	A0	5.38	5	1.076
5	2	-3	7	340	A0	5.27	5	1.054
6	7	-8	9	440	A0	13.78	4	3.445
7	4	-4	7	400	A0	9.75	5	1.950
8	2	-2	3	370	A0	7.32	4	1.830
9	2	-1	2	370	A0	7.32	4	1.830
10	5	-5	5	360	A0	5.46	3	1.820
11	10	-5	10	470	A0	15.92	4	3.980
12	10	-5	7	680	A0	40.87	3	13.623
13	5	-5	2	700	A0	27.84	4	6.960
14	3	-4	2	730	A0	25.28	5	5.056
15	3	-3	2	680	A0	15.67	6	2.612
16	3	-3	3	590	A0	14.95	5	2.990
17	2	-2	4	520	A0	11.42	3	3.807
18	2	-3	3	440	A0	9.56	6	1.593
19	3	-3	3	350	A0	3.82	5	0.764
20	3	-3	2	360	A0	3.71	5	0.742
21	5	-6	12	390	A0	17.42	6	2.903
22	10	-10	9	630	A0	23.49	5	4.698
23	5	-6	3	670	A0	32.59	5	6.518
24	4	-3	4	520	A0	21.27	4	5.318
25	2	-2	5	440	A0	9.21	3	3.070
26	3	-4	5	440	A0	12.80	6	2.133
27	6	-6	10	440	A0	14.94	7	2.134
28	2	-4	6	470	A0	13.46	7	1.923
29	2	-2	7	390	A0	7.75	9	0.861
30	3	-2	7	400	A0	5.87	5	1.174
31	5	-2	6	400	A0	5.21	3	1.737

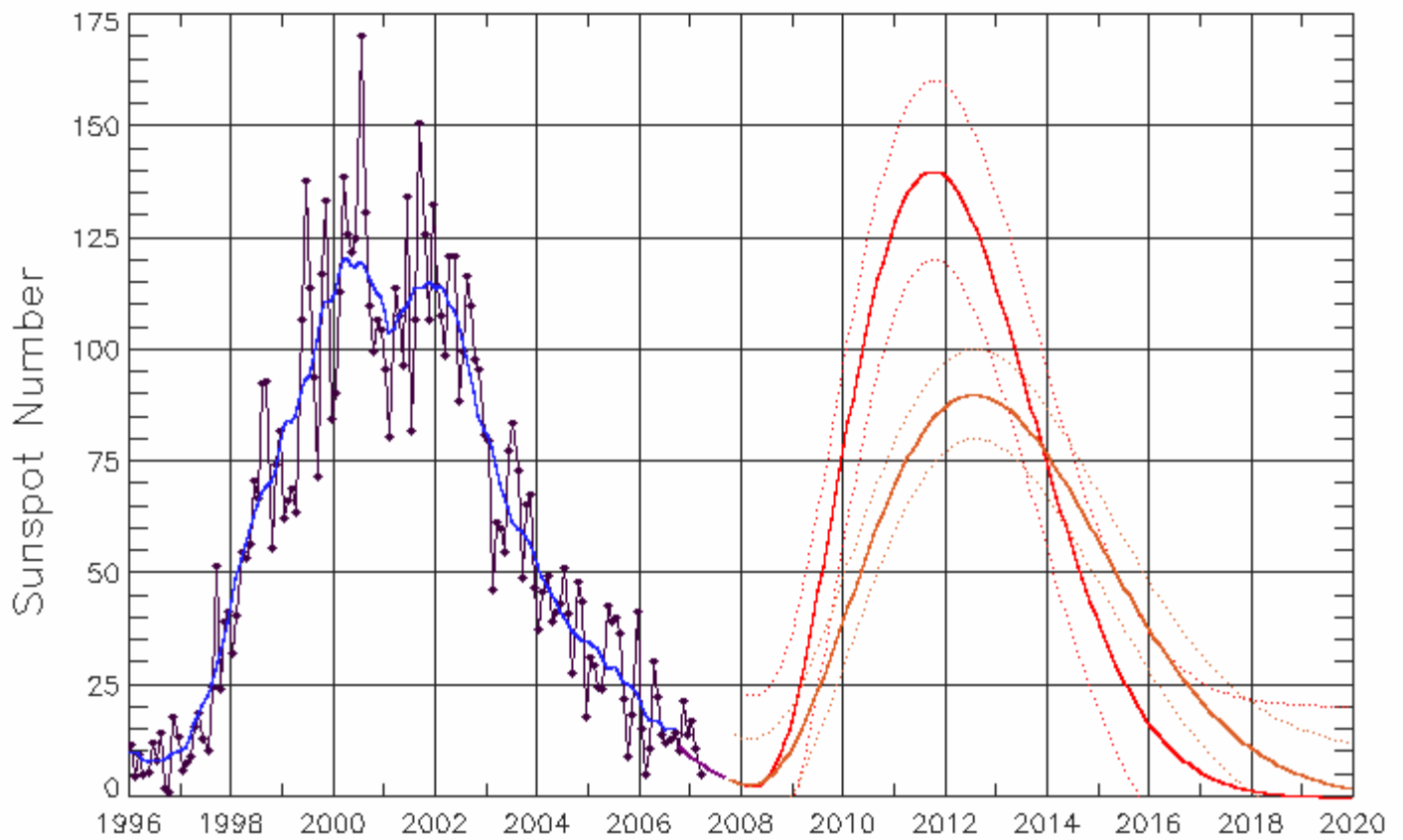
## THE SUNSPOT CYCLE

August was again a sunspot 0 figure month. We are surely in the minimum of the cycle and waiting for increased numbers from the next cycle. Keep looking.



# Solar Cycle 24 Sunspot Number Prediction

Data Through 31 Mar 07



— Low Prediction (Smoothed)      — High Prediction (Smoothed)      ..... 1-Sigma Error  
— Smoothed Monthly Values      — Monthly Values

Updated 2007 Apr 20

NOAA/SEC Boulder, CO USA

Clear skies,

Jacques van Delft.

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