

Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 13

Number 145

March 2008

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Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

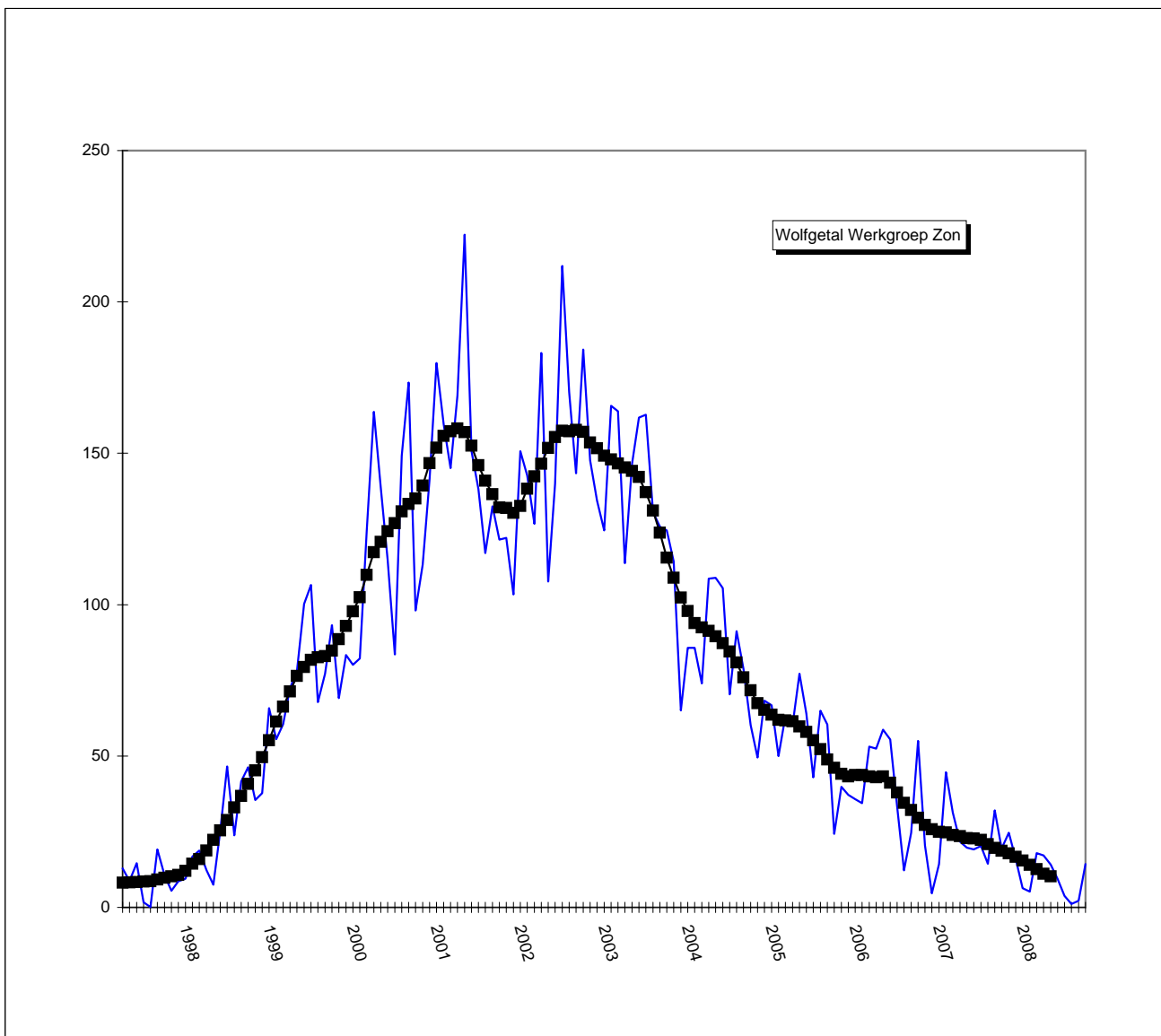
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



Mean of March observations

Groups :	N	0,00	Wolfnumb N	0	Beck :	76,4
	S	0,94	S	13,2	CV	12,7
	N+S	0,94	N+S	13,2		
375 observations	30 observers					

Sunspotnumbers VVS Belgium

Month: **March 2008**

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	0	0	0	0	0	0	0	16
2	0	0	0	0	0	0	0	0	9
3	0	1	1	0	10	10,0	7	1	18
4	0	0	0	0	0	0	0	0	18
5	0	1	1	0	2	2,0	1	1	19
6	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	0	12
8	0	0	0	0	0	0	0	0	15
9	0	0	0	0	0	0	0	0	1
10	0	1	1	0	5,3	5,3	3	1	7
11	0	0	0	0	0	0	0	0	12
12	0	0	0	0	0	0	0	0	11
13	0	0	0	0	0	0	0	0	6
14	0	0	0	0	0	0	0	0	13
15	0	1	1	0	8,4	8,4	16	2	12
16	0	1	1	0	9,2	9,2	4	1	6
17	0	1	1	0	5,5	5,5	2	1	12
18	0	0	0	0	0	0	0	0	19
19	0	0	0	0	0	0	0	0	18
20	0	0	0	0	0	0	0	0	6
21	0	0	0	0	0	0	0	0	12
22	0	0	0	0	0	0	0	0	15
23	0	0	0	0	0	0	0	0	22
24	0	2	2	0	34,5	34,5	226	18	15
25	0	3	3	0	51,6	51,6	435	71	20
26	0	3	3	0	52,5	52,5	502	85	4
27	0	3	3	0	63	63,0			2
28	0	3	3	0	42,2	42,2	417	48	5
29	0	3	3	0	46,8	46,8	371	65	22
30	0	3	3	0	41	41,0	188	58	7
31	0	3	3	0	36,2	36,2	120	30	20
	0,00	0,94	0,94	0,0	13,2	13,2	76,4	12,7	375

Monthly mean: **13,2** Covering: **31/31** Spotless days: **17**
 Observations: **375** Number of observers: **30**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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 Belgium
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Observers:

Devriese ; De Ceuninck ; Janssens ; Publ obs Mira ; Bourgeois ; Macharis
 De Backer ; Dubois ; Gysel ; Kleber ; Deman ; Taillieu ; Carels ; Dewaele
 Meeus ; Steen ; KSB ; Gabriel ; Claeys ; Devriese ; Thooris ; Vanleenhove
 Claes ; Verboven ; Van Loo ; Son ; Coeckelberghs ; Gadyne
 S.Dufoer ; G.Gubbels ; jeugdwerking Astrolab ; J Bavais ; A. De Kerchove

Prominence number Rp

Belgian solar observers

Month: March 2008

Day	Q	Wedel		H	e	Rp	el. Obs	Stdev	OBS
1	2,8	2,6		3,5	6,7	41,7	1	11,1	7
2	3	2,5		3,0	5	35		1,4	2
3	2,9	2,1		2,8	3,8	31,8	2	12,5	7
4	2,8	2,5		3,3	5,1	38,1		8,9	7
5	2,9	2		3,9	5,3	44,3		8,9	9
6									
7	3	2		5	10,8	60,8	1	12,4	5
8	3,1	2		5,6	8,7	64,7		9	7
9	2,5	2		3	4	34			1
10	3	2,8		2,5	4	29		9,9	2
11	3,2	2,3		3,3	4,7	37,7		6,3	6
12	2,6	2,5		2,2	2,2	24,2		9,2	5
13	3	2		3	4	34			1
14	2,8	3		2,3	3,8	26,8	1	11,1	5
15	3,3	2,5		1	1	11	1	0	3
16	3	2,5		3	3	33			1
17	2,9	2,5		3,3	4,8	37,8	1	10,7	5
18	3,1	2,3		3,7	7,7	44,7		6,3	7
19	3,3	2,3		5,4	6,6	60,6		12,6	7
20	3	2,5		2,5	2,5	27,5		7,8	2
21	2,8	2,4		5	7,3	57,3		7,3	6
22	3,2	1,8		6	10,4	70,4	1	11,6	8
23	3,6	2,2		5,5	8	63	1	11,7	11
24	3	2,7		4	6,6	46,6	2	8,3	7
25	2,9	2,4		2,9	3,4	32,4	2	11,3	10
26									
27									
28	3	3		4	7	47			1
29	3,1	2,1		2,2	3,2	25,2	1	8,2	12
30	3,5	1,5		3	6	36			1
31	3,2	2,2		5	6,2	56,2	1	10	6
	3,02	2,33		3,6	5,4	41,1	15	9,0	151

Monthly mean: 41,1 Covering: 28/31
 Observations: 151 Number of observers: 13

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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Observers:

Steen ; Dubois ; Meeus ; De Ceuninck ; Coeckelberghs ; Janssens
 Hamsch ; Claes ; Gabriel ; Blondeel ; Deman ; G.Gubbels ; T.Spaninks

Q : Seeing scale SIDC

W : transparency scale of Wedel , see <http://members.chello.be/j.janssens/>

H : number of prominence groups at the limb

e : total of individual prominences at the limb

Rp : $H \cdot 10^e$

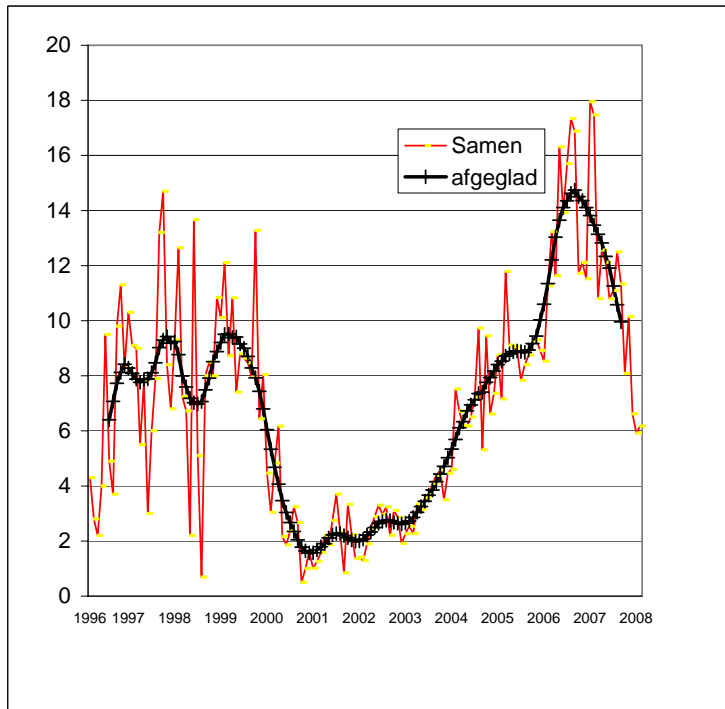
More info at : <http://members.chello.be/j.janssens/>

Belgian Solar Observers

Polar Faculae

Month: March 2008

Date	Dubois			Steen			Deman			Gabriel			Carels			Janssen			T.Spaninks			G.Gubbels								
	125mm F20			102mm F15			150mmF15			250 mm F20			150mm F8			200mmF10			127mm F15											
	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q			
1	1	1	3	4	6	3,0																		3	8	2,5				
2																														
3	1	1	3	4	6	3,5	8	23	3																					
4	1	5	3	4	7	3,5				14	26	3	2	7	4					1	1	4								
5				2	7	3,0				11	28	3	0	4	4					0	1	4	3	8	2,5					
6																														
7	5	11	2	5	10	3,5				24	39	4																		
8				4	7	3,5				21	34	4								0	1	4	3	7	3,5					
9																														
10																														
11				5	5	3,0				16	33	4																		
12				2	7	3,0				11	37	3																		
13																														
14				4	5	3,5				18	33	4												4	2	2,5				
15				2	5	3,5																		3	6	3				
16																														
17				6	8	3,5																								
18				2	6	3,0				18	42	4												4	6	4				
19	2	7	3	3	6	3,5				14	34	3												5	6	2,5				
20																														
21				3	5	3,0															1	3	4	5	7	3,5				
22				2	4	3,5															0	0	4	7	5	3,5				
23																					1	2	3,5	0	0	4	6	6	3,5	
24																					0	0	3	3	5	4				
25	2	7	3	2	5	3,0	11	23	3																					
26																														
27																														
28																									3	4	3,5			
29	2	7	3	3	6	3,0				12	21	3								1	4	3,5	0	0	4	0	4	3,5		
30																									2	8	3,5			
31	3	3	3	3	4	3,0				14	29	4								0,0	0,0	4	2,0	10,0	4,0					
	2,13	5,25		3,33	6,06		9,5	23,0		15,4	32,3		1,00	4,67		1,00	3,00		0,22	0,67		3,53	6,13							



Different Relative Sunspotnumbers

Month : March 2008

CV										Pettisindex SN				Intersol IS			Becknumber														
Date	F.Dubois	O.Steen	L.Meeus	J.Carels	J.Janssens	G.Gubbels	H.De Backer	S.Dufoer	Mean	G.Gubbels	F.Dubois	O.Steen	J.Carels	F.Dubois	J.Carels	G.Gubbels	F.Dubois	O.Steen	L.Meeus	J.Carels	G.Gubbels	S.Dufoer	A.T.Son	J.Bourgeois	H.Coeckelberghs	De Backer	Pbl Obs Mira	J.Claes	D.Van Hessche	Mean	Date
1	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	2	1		1		0	1		1,0	0	2	2	1	3	1	0										8	16	8	7	3	
4	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
5	0	1	0	0		0	0		0,2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
6																															6
7	0	0		0			0		0,0		0	0	0	0	0		0	0											0	7	
8	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
9		0							0,0		0																		0	9	
10		2				0	0		0,7	0		2				0													3	10	
11	0	0					0		0,0		0	0		0			0										0	0	3	11	
12	0	0					0		0,0		0	0		0			0												0	12	
13		0	0			0	0		0,0	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
14	0	0	0			0	0		0,0	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	
15	4	1		1		4	0		2,0	10	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	
16	1	1							1,0		1	1		1			1												4	16	
17	1	1	0	1			0		0,6		1	1	1	1	1		1	1										0	2	17	
18	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
19	0	0	0	0		0	0		0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
20	0	0					0		0,0		0	0		0			0												0	20	
21	0	0	0			0	0		0,0	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	
22	0	0	0	0		0			0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	
23	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	
24	18	4	27	24		8	24		17,5	21	36	60	39	20	14	16													240	24	
25	84	84	48	69					71,3		71	89	77	32	21														450	25	
26	85								85,0		73			32															502	26	
27																															27
28						48			48,0	76						23													417	28	
29	74	73	56	41	55	79	77		65,0	66	63	57	57	24	19	18												319	375	29	
30	49	48				78			58,3	55	43	45		20	13														188	30	
31	45	42	23	20		26	21		29,5	44	31	25	47	17	13	15												68	120	31	
##	14,5	9,6	9,6	9,2	27,5	12,8	1,2	33,7	13,1	14,3	13,2	10,6	13,1	6,0	4,1	4,5	88	64	72	60	68	246	71	160	136	6	0	52	3	80,2	

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 377 from 2008 Mar 17

SOLAR ACTIVITY

Solar activity has been extremely low during the whole week with no significant flaring activity.

The Xray flux measured by the GOES spacecraft rose by an order of magnitude on March 23rd, when a series of returning active regions appeared on the East limb (returning AR 0984 and 0985).

A moderate B-class flare activity was recorded on that day. A CME was observed behind the East limb on March 22nd, possibly related to returning AR 0985.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was very low during the whole week.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 378 from 2008 Mar 24

SOLAR ACTIVITY

Solar activity was dominated by a burst of flaring activity from NOAA AR 0988 and AR 0989. A M class flare occurred on March 25th in AR 0989 while it was on the east limb. A fast CME (about 900 km/s) was linked to this event. AR 0988 produced a strong B flare (B7.6) on March 26th. The remaining part of the week was rather quiet.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was dominated by the influence of a recurrent coronal hole. Active to minor storm conditions were observed from March 26 to March 28th. Local K indices measured at Dourbes stations ranged from K=4 to sporadically K=5 on March 26 and March 27th. Active to minor storm conditions were also observed at planetary levels from March 26 to March 28th. During this period the solar wind speed reached a maximum value of about 650 km/s.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 379 from 2008 Mar 31

SOLAR ACTIVITY

Three sunspot groups appeared on the solar disc during the week: Catania numbers 76, 77, 78 (NOAA numbers 0987, 0988, 0989 respectively). The sunspots of the group 78 have disappeared on April 2, and from that moment it was classified as an H-alpha plage (NOAA number 0989). It nevertheless produced the strongest flare of the week: C1.2 peaking at 01:24 UT on April 3. EIT images showed an associated coronal dimming (starting at 01:24 UT). No CME has been reported in association with this flare and dimming. The second C1.2 flare peaking at 02:27 UT on April 3 was produced by the Catania sunspot group 77 (NOAA AR 0988). The Catania sunspot group 76 did not produce significant flaring activity during the week, the strongest flare from this group being the B5.0 flare peaking at 01:57 UT on April 4.

GEOMAGNETIC ACTIVITY

In the beginning of the week the Earth was situated inside the slow solar wind flow and the geomagnetic conditions were quiet. On April 3 the sector boundary crossing occurred, and on April 4 the Earth entered the interaction

region between a slow and a fast solar wind flows. The fast flow was produced by a low-latitude coronal hole in the southern hemisphere. The interplanetary magnetic field magnitude in the interaction region reached 13 nT, and NOAA has reported the minor storm conditions of K = 5. On April 5 the Earth has entered the fast flow itself, and the solar wind speed reached 760 km/s on April 6. According to NOAA, the K index reached 6 and 5 on April 5 and 6 respectively.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 380 from 2008 Apr 07

SOLAR ACTIVITY

Solar activity was extremely low during the whole week. A non geoeffective solar event was spotted on the west limb on April 9th. It was associated with a filament eruption seen on EIT, and a flux-rope CME observed with the LASCO coronagraphs.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was low with only three isolated periods of unsettled conditions at planetary levels (kp=4) on April 7th, April 9th and April 12th.
