

Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 14

Number 156

February 2009

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Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

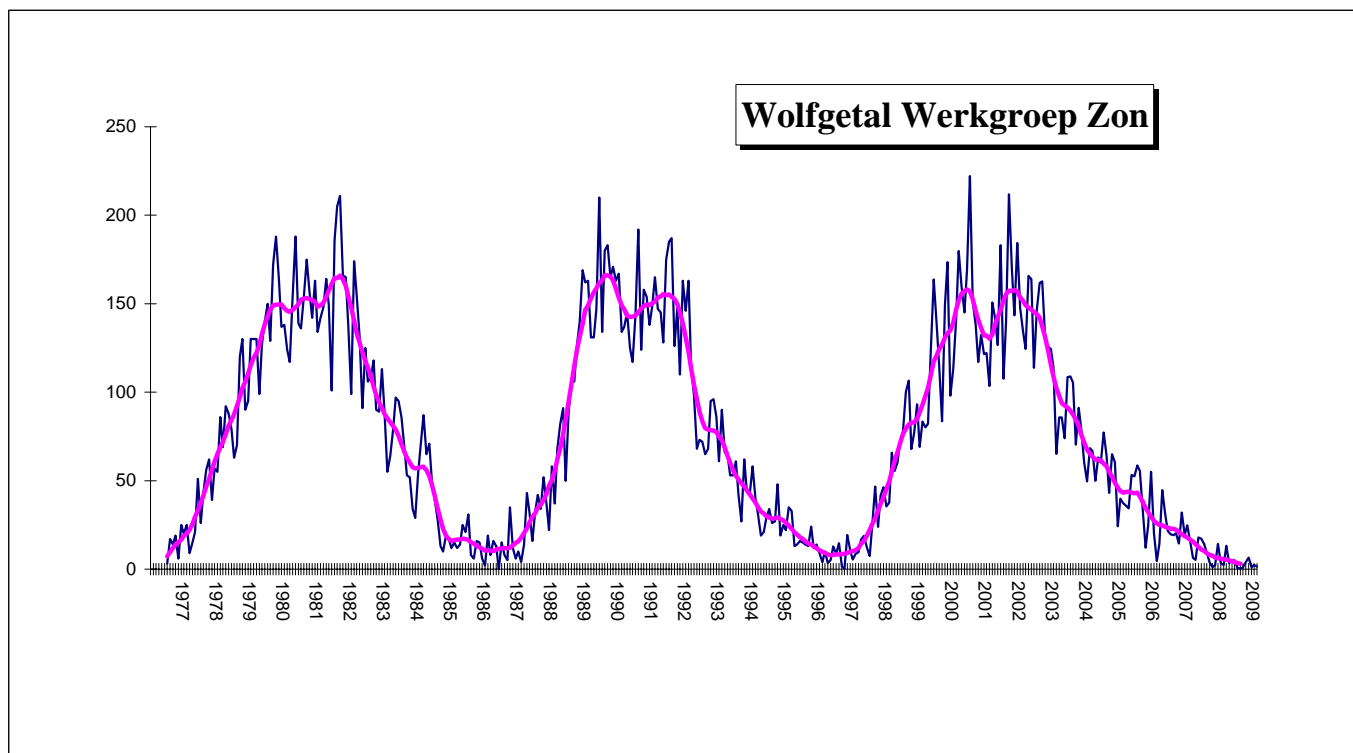
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



Mean of January observations

Groups :	N	0,13	Wolfnumb N	0,9	Beck :	1,8
	S	0,09	S	0,7	CV	0,4
	N+S	0,22	N+S	1,5		
215 observations	27 observers					

Sunspotnumbers VVS Belgium

Month: February 2009

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	0	0	0	0	0	0	0	18
2									
3	0	0	0	0	0	0	0	0	7
4	0	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	7
6	0	0	0	0	0	0	0	0	17
7	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	11
9									
10									
11	0	1	1	0	5,9	6	2	1	13
12	0	1	1	0	9,1	9	4	1	17
13	0	0	0	0	0	0	0	0	2
14	0	0	0	0	0	0	0	0	23
15	0	0	0	0	0	0	0	0	9
16	0	0	0	0	0	0	0	0	4
17									
18	0	0	0	0	0	0	0	0	5
19	0	0	0	0	0	0	0	0	4
20	0	0	0	0	0	0	0	0	8
21	0	0	0	0	0	0	0	0	12
22									
23	0	0	0	0	0	0	0	0	1
24	1	0	1	11,4	0	11	22	3	10
25	1	0	1	6,8	0	6,8	12	3	14
26	1	0	1	2,3	0	2,3	2	1	10
27	0	0	0	0	0	0	0	0	4
28	0	0	0	0	0	0	0	0	14
	0,13	0,09	0,22	0,9	0,7	1,5	1,8	0,4	215

Monthly mean: **1,5** Covering: **23/28** Spotless days: **18**
 Observations: **215** Number of observers: **27**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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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: February 2008

Day	Q	Wedel		H	e	Rp	el. Obs	Stdev	OBS
1	2,2	2		2,0	2,8	22,8	1	8,6	5
2									
3	2,3	2,8		2,5	2,5	27,5		7,8	2
4	3	3		1	1	11			1
5	3	2,5		3	5	35			1
6	2,5	2,3		2,8	4	32	1	6,4	5
7									
8	2,5	2,3		4	5,5	45,5	1	2,1	3
9									
10									
11	3,3	1,5		1	1	11	1	0,0	4
12	2,9	2		3,8	6	44	1	6,6	5
13	2,5	2,5		4	4	44	1		2
14	3	2,2		4,2	5,6	47,6		9,1	10
15	3	2,5		3	3,5	33,5		0,7	2
16	3	2		3	3	33			1
17									
18	3	2,5		2	2	22			1
19	3	2		8	16	96			1
20	3	2,5		3	3,5	33,5		14,8	2
21	2,5	2,5		1,8	1,8	19,8		10,5	4
22									
23									
24	2,5	2,5		2	2,5	22,5		16,3	2
25	3	2,4		3,3	4	37		10,6	4
26	3	3		1	2	12			1
27	2	2		2	2	22			1
28	2,7	2,3		5	8,5	58,5		8,8	4
	2,76	2,35		2,97	4,1	33,8	6	7,9	61

Monthly mean: **33,8** Covering: **21/28**
 Observations: **61** Number of observers: **11**

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*10+e

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

Different Relative Sunspotnumbers

Month : February 2009

CV										Pettisindex SN						Intersol IS						
Date	F.Dubois	O.Steen	L.Meeus	J.Carels	J.Janssens	P.-J. Deketver	G.Gubbels	H.De Backer	S.Dufoer	Mean	G.Gubbels	F.Dubois	P.-J. Deketver	O.Steen	J.Carels	Mean	F.Dubois	J.Carels	G.Gubbels	P.-J. Deketver	Mean	
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	
2																						
3	0	0		0						0,0		0		0	0	0,0		0			0,0	
4	0	0								0,0		0		0		0,0		0			0,0	
5	0	0	0					0		0,0		0		0		0,0		0			0,0	
6	0	0	0	0				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	
9																						
10																						
11	1	1	1					1		1,0		1		1		1,0		1			1,0	
12	1	1	1		0	0	1	1		0,7		1	1	0	1	0,8		1		1	0,7	
13	0	0		0						0,0				0	0	0,0					0,0	
14	0	0	0	0				0	0	0,0		0		0	0	0,0		0	0	0	0,0	
15	0	0		0						0,0		0		0	0	0,0		0	0		0,0	
16	0	0								0,0		0		0		0,0		0			0,0	
17																						
18	0	0						0		0,0		0		0		0,0		0			0,0	
19	0	0						0		0,0		0		0		0,0		0			0,0	
20	0	0		0				0	0	0,0		0		0	0	0,0		0	0		0,0	
21	0	0	0	0				0	0	0,0		0		0	0	0,0		0	0		0,0	
22										0,0						0,0						
23		0								0,0				0		0,0						
24	1	2		5					5	3,3		2		4	11	5,7		3	3		3,0	
25			2		2		5	2		2,8	13					13,0			5		5,0	
26	1	1	0	0				0		0,4		2		1	0	1,0		3	0	5	1,5	
27	0	0		0						0,0		0		0	0	0,0		0	0		0,0	
28	0	0		0				0	0	0,0		0		0	0	0,0		0	0	0	0,0	
##	0,2	0,2	0,4	0,4	1,0	0,0	0,9	0,3	0,7	0,4	2,0	0,3	0,0	0,3	0,8	1,0	0,4	0,2	0,9	0,0	0,5	

Becknumber

Date	F.Dubois	O.Steen	L.Meeus	P.-J. Deketver	J.Carels	G.Gubbels	S.Dufoer	D.Van Hessche	A.T.Son	J.Bourgeois	H.Coeckelbergijs	De Backer	Pbl Obs Mira	J.Claes	F.Feys	R.Verboven	Mean	Date	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2																		0	2
3	0	0			0													0	3
4	0	0								0								0	4
5	0	0	0								0							0	5
6	0	0	0		0	0		0	0	0	0							0	6
7																			7
8	0	0			0	0					0		0			0		0	8
9																			9
10																			10
11	4	4	4				0				4		0		0		2	11	
12	4	4	4	0		4				4	4		4		4		4	12	
13	0				0													0	13
14	0	0	0		0	0		0	0	0	0		0		0			0	14
15	0	0			0								0					0	15
16	0	0																0	16
17																			17
18	0	0									0							0	18
19	0	0									0							0	19
20	0	0			0		0				0							0	20
21	0	0	0		0	0				0	0							0	21
22																			22
23		0																0	23
24	8	16			32	32			0								18	24	
25			12			32		0		0	8	0	16		16		11	25	
26	8	4	0		0						0						2	26	
27	0	0			0													0	27
28	0	0			0	0	0	0		0	0		0		0			0	28
##	1,26	1,3	2,2	0,0	2,5	5	6	0	0	1	0	1	0,0	2,9	####	2,9	1,7		

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 426 from 2009 Feb 23

SOLAR ACTIVITY

Only one sunspot group (Catania number 96, NOAA AR 1013) was observed during the week. It was reported as a sunspot group by Catania on February 25, and by NOAA on February 25-27. The only noticeable flare it produced was the A3.2 flare peaking at 07:14 UT on February 27. It was accompanied by an EIT wave and dimming event starting at 07:09 UT. The associated CME was weak and narrow, but was possibly associated with an interplanetary shock registered by ACE and SOHO/CELIAS around 05:00 UT on March 3. The NOAA AR 1013 was visible until the end of the week as an Halpha plage. A low-latitude weak and small coronal hole passed the solar central meridian on February 27.

GEOMAGNETIC ACTIVITY

In the beginning of the week the Earth was situated inside the solar wind flow with an intermediate (450-500 km/s) and then low (400 km/s) speed. As the interplanetary magnetic field magnitude was at an average level or below it, the geomagnetic conditions were quiet. Early on February 27 the Earth entered the interaction region between slow and fast solar wind streams. The fast stream was most probably produced by a low-latitude extension of the southern polar coronal hole. The solar wind speed reached 700 km/s at the end of that day and then started to decrease steadily. The southward component of the interplanetary magnetic field stayed below 5 nT. IZMIRAN reported one interval of K = 4, but according to Dourbes and NOAA the K index stayed below 4.

Starting from the second half of February 28 and until the end of the week, the Earth was inside a slow solar wind flow with weak interplanetary magnetic field. The geomagnetic conditions were quiet.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 427 from 2009 Mar 02

SOLAR ACTIVITY

One small sunspot (Catania 97) and associated active region (NOAA AR 1014) was visible. The sunspot was for the first time observed on Mar 06 near the central meridian. No flares were measured. The 10.7cm radio flux was 69-70 sfu for the whole week. The all-quiet alert was valid for the whole week. Two faint coronal hole transited the solar disk.

GEOMAGNETIC ACTIVITY

The solar wind associated with the two coronal holes mentioned in the previous section had a moderate speed: 400km/s and 450km/s. The north-south component was in both cases mainly positive. The magnetosphere was only slightly disturbed: Kp became maximum 3 on Mar 04 and 08.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 428 from 2009 Mar 09

SOLAR ACTIVITY

Solar activity was absolutely absent during the period. No flare, no sunspot, no CME was observed.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was quiet from the beginning of the period until March 13. At that moment it jumped up Kp=5 and remained at active levels for the rest of the period. The root cause of this geomagnetic activity was a recurrent coronal hole that resulted in a solar wind speed increase up to 600 km/s.

SIDC-NEWS: DEFINITIVE INTERNATIONAL AND HEMISPHERIC SUNSPOT #
NUMBERS from the SIDC (RWC-Belgium) #
#-----#

SIDC DEFINITIVE INTERNATIONAL AND HEMISPHERIC SUNSPOT NUMBERS FOR 2008
JULY AUGUST SEPTEMBER

Date	Ri	Rn	Rs	Ri	Rn	Rs	Ri	Rn	Rs
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	7	7	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	8	0	8	0	0	0	0	0	0
19	9	0	9	0	0	0	0	0	0
20	8	0	8	0	0	0	0	0	0
21	0	0	0	7	7	0	0	0	0
22	0	0	0	8	8	0	8	8	0
23	0	0	0	0	0	0	9	9	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	8	0	8
30	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0			

MEAN 0.8 0.0 0.8 0.5 0.5 0.0 1.1 0.8 0.3

