

Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 14

Number 157

March 2009

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Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

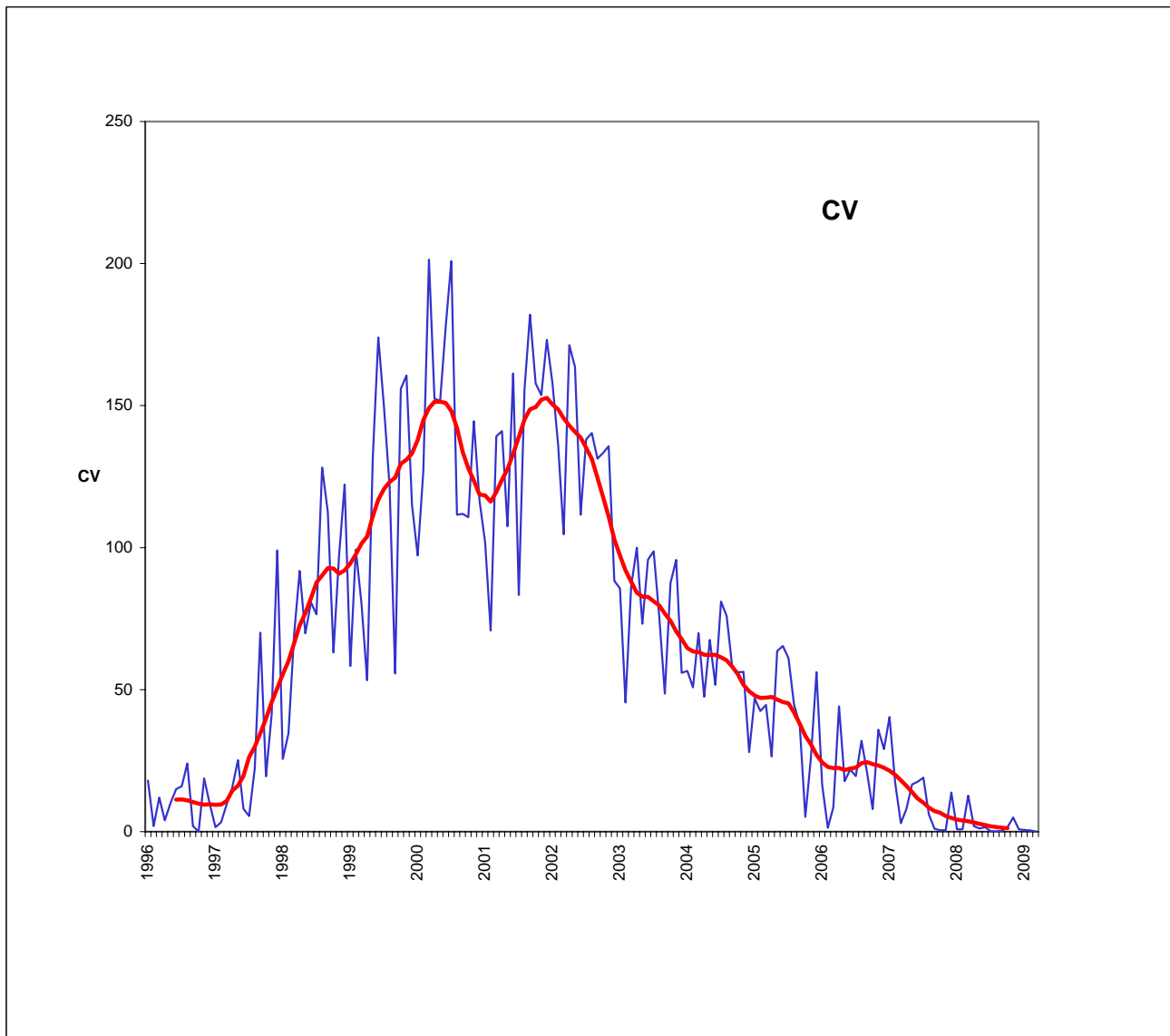
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



Mean of March observations

Groups :	N	0,03	Wolfnumb	N	0,2	Beck :	0,7
	S	0,06		S	0,6	<u>CV</u>	0,1
	N+S	0,10		N+S	0,8		
506 observations		29 observers					

Sunspotnumbers VVS Belgium

Month: **March 2009**

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	0	0	0	0	0	0	0	14
2	0	0	0	0	0	0	0	0	19
3	0	0	0	0	0	0	0	0	7
4	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	16
6	0	1	1	0	9,1	9,1	8	1	19
7	0	1	1	0	8,6	8,6	7	2	14
8	0	0	0	0	0	0	0	0	24
9	0	0	0	0	0	0	0	0	19
10	0	0	0	0	0	0	0	0	5
11	0	0	0	0	0	0	0	0	20
12	0	0	0	0	0	0	0	0	2
13	0	0	0	0	0	0	0	0	13
14	0	0	0	0	0	0	0	0	13
15	0	0	0	0	0	0	0	0	22
16	0	0	0	0	0	0	0	0	15
17	0	0	0	0	0	0	0	0	22
18	0	0	0	0	0	0	0	0	21
19	0	0	0	0	0	0	0	0	20
20	0	0	0	0	0	0	0	0	21
21	0	0	0	0	0	0	0	0	22
22	0	0	0	0	0	0	0	0	21
23	0	0	0	0	0	0	0	0	12
24	0	0	0	0	0	0	0	0	17
25	0	0	0	0	0	0	0	0	15
26	1	0	1	6	0	6	8	1	2
27	0	0	0	0	0	0	0	0	18
28	0	0	0	0	0	0	0	0	18
29	0	0	0	0	0	0	0	0	23
30	0	0	0	0	0	0	0	0	25
31	0	0	0	0	0	0	0	0	26
	0,03	0,06	0,10	0,2	0,6	0,8	0,7	0,1	506

Monthly mean: **0,8** Covering: **31/31** Spotless days: **28**
 Observations: **506** 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	3,3	2,3		5,5	8	63		25,5	2
2	3,3	1,9		3,4	5,7	39,7	1	9,2	8
3									
4									
5	2,6	1,8		0,8	0,8	8,8	1	5,5	5
6	3	1,7		3,8	6,4	44,4	2	10,4	7
7	3	2,5		3,3	7,3	40,3	1	6,4	4
8	3,3	1,8		3,3	6,8	39,8	2	9,4	8
9	2,9	1,8		3,2	5,3	37,3		11,2	6
10									
11	2,9	1,9		3,8	5,2	43,2		10,6	5
12									
13	4	2		3	4	34		17	2
14	3,3	2,3		3,3	5,3	38,3		7,4	3
15	3	2,2		3,7	5,5	42,5	2	9,5	8
16	3,7	1,8		3,3	4,3	37,3	2	13,6	5
17	2,9	2,1		2	3,2	23,2	1	7,9	6
18	2,8	2		4,6	6,4	52,4		5,5	5
19	2,8	2,2		4,3	5	48	2	5,9	5
20	2,9	2		6,2	10,6	72,6	1	11,9	6
21	3,3	1,8		5,8	8,8	66,8	1	10,6	10
22	2,8	2,2		3,6	5	41	2	11,2	7
23	3	2,1		4	5,5	45,5		17,7	2
24	3,4	2		3,3	3,8	36,8		11,1	4
25	2,8	1		3	3,8	33,8		9,8	4
26									
27	2,3	2,2		3,7	6,3	43,3	1	8,7	4
28	3,4	1,6		3,5	7	42	1	5,5	5
29	3,6	1,9		4,2	9,8	51,8	3	7,6	9
30	3,4	1,6		4,6	8,6	54,6	1	9,6	8
31	3,4	2,1		3,8	5,1	43,1	2	10,4	10
	3,12	1,95		3,7	5,9	43,2	26	10,4	148

Monthly mean: **43,2** Covering: **26/31**
Observations: **148** Number of observers: **13**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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Belgium
e-mail : astrosun@skynet.be

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/>

Different Relative Sunspotnumbers

Month : March 2009

CV										Pettisindex SN						Intersol IS					
Date	F.Dubois	O.Steen	L.Meeus	J.Carels	J.Janssens	P.J. Dekelver	G.Gubbels	H.De Backer	S.Dufoer	Mean	G.Gubbels	F.Dubois	P.J. Dekelver	O.Steen	J.Carels	Mean	F.Dubois	J.Carels	G.Gubbels	P.J. Dekelver	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	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
3	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	0	0	0	0	0	0	0	0	0	0,0	0	0	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	0	0	0	0,0	0	0	0	0	0,0
6	1	1	1	2	0	0	2	0	0	1,2	2	2	2	2	2	2,0	3	3	0	0	3,0
7	1	2	2	1	1	0	2	0	0	1,3	2	1	0	2	1	1,2	1	1	3	0	1,3
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
9	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
10	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
11	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
12	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	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	0	0	0	0	0	1	0	0	0	0,2	0	0	1	0	0	0,3	0	0	0	1	0,3
15	0	0	0	0	0	0	0	0	0	0,0	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	0	0	0	0	0	0,0	0	0	0	0	0,0
17	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	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	0	0	0	0	0	0	0	0	0	0,0	0	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	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	0,0	0	0	0	0	0,0
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
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
24	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
25	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
26	1	0	0	0	0	0	0	0	0	1,0	2	0	0	0	0	2,0	3	0	0	0	3,0
27	0	0	0	0	0	0	0	0	0	0,0	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	0	0	0	0	0,0
29	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
30	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
31	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	0,1	0,1	0,1	0,3	0,1	0,1	0,1	0,0	0,1	0,1	0,2	0,1	0,1	0,1	0,2	0,3	0,2	0,2	0,1	0,3

Becknumber

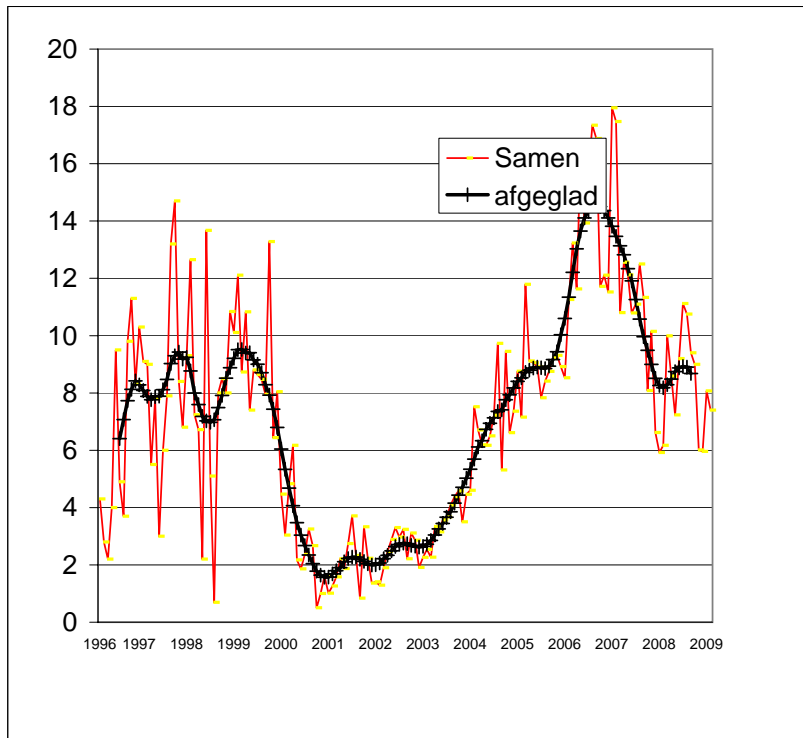
Date	F.Dubois	O.Steen	L.Meeus	P.J. Dekelver	J.Carels	G.Gubbels	S.Dufoer	D.Van Hesseche	A.T.Son	J.Bourgeois	H.Coeckelberghs	De Backer	Pbl Obs Mira	J.Claes	F.Feys	R.Verboven	Mean	Date	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
6	8	8	8	0	16	0	0	0	0	0	8	12	0	0	8	0	7	6	6
7	4	8	8	0	4	8	0	0	0	0	0	0	0	0	0	0	4	7	7
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
14	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
26	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	26	26
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	27
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	29
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31
##	0,74	0,6	0,7	0,3	0,8	0	0	0	0	0	0	1,7	0,0	0,0	0,5	0	0,4		

Belgian Solar Observers

Polar Faculae

Month: March 2009

Date	Dubois 125mm F20			Steen 102mm F15			Deman 150mmF15			Gabriel 250 mm F20			Carels 150mm F8			Janssen 200mmF10			T.Spaninks 127mm F15			G.Gubbels		
	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										10	21	3				0	3	3,5				1	6	1
2	2	7	4	4	7	4	3	25	3	14	24	4							1	1	4	0	3	4
3																								
4																								
5	1	5	3	4	8	3,5																		
6	3	8	2	3	4	3,0				11	29	3												
7										13	25	3				0	1	3,0				0	3	2,5
8	2	7	3	3	9	3,5	9	19	3				3	0	4				0	1	4	0	3	3,5
9	3	6	3				7	20	3	10	23	3										0	3	3,5
10																								
11	1	7	3	2	4	3,0				12	19	3							0	0	4			
12																								
13				3	6	4,0				11	23	4												
14																						0	3	4
15	1	6	3	3	8	3,5							1	2	4	2	5	3,5	0	1	4	0	4	3
16	4	5	4	4	6	4,0	11	21	4															
17	2	13	4	1	9	3,5													0	0	4			
18	2	9	4	0	6	3,0				7	19	3							0	0	3			
19	2	15	3	4	7	3,5				9	18	4							0	1	4	0	3	3,5
20	4	14	4	3	9	3,5				10	20	3										0	4	3,5
21	1	12	4	5	11	4,0				7	19	4	1	1	5	0	1	3,0	1	0	4	0	3	3,5
22	4	10	3							12	17	4							1	0	4	0	2	4
23				1	6	3,0																		
24																								
25	3	9	3	4	9	3,5																		
26																								
27				2	8	3,5							1	1	4							0	5	3
28	4	12	4	4	9	3,5							1	2	4				0	1	4	2	5	4
29	4	7	4	3	10	4,0	5	20	3	9	17	4	1	1	4				1	0	4	2	5	3,5
30	2	7	3	3	8	4,0				7	19	3							0	1	3	2	4	4
31	1	8	4	4	7	4,0	7	16	5	7	15	4							0,0	1,0	4	4,0	7,0	4,0
	2,42	8,79		3,00	7,55		7,0	20,2		9,9	20,5		1,33	1,17		0,50	2,50		0,31	0,54		0,69	3,94	



SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 429 from 2009 Mar 16

SOLAR ACTIVITY

No flares, nor sunspots were observed during the week. There were two slow east-limb CMEs on 16 and 18 March, they were not Earth directed.

GEOMAGNETIC ACTIVITY

The geomagnetic conditions were quiet during the full week until March 21, when the arrival of a weak coronal hole related solar wind created a single 3h period of K=4 at Dourbes (while Kp remained at 3).

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 430 from 2009 Mar 23

SOLAR ACTIVITY

Solar activity was very low during the week. The only noticeable event was a brief period of weak flaring activity (B at most) which occurred on March 26th, on the East limb and in a small unnumbered active region near the central meridian.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was very quiet during the week. There was a brief period of unsettled to active conditions (K=4) at Dourbes on March 25th and March 26th due to a fast solar wind stream linked to a southern polar coronal hole.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 431 from 2009 Mar 30

SOLAR ACTIVITY

Solar activity was very low during the past 7 days. There were no sunspots visible during the entire week.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was very quiet this week. The solar wind was slow and decreased even to 250 km/s on april, 4. The Kp index was never higher than 2. On april 2, a recurrent coronal hole appeared on the east limb of the solar disk. It did not reach a geo-effective position during this week.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 432 from 2009 Apr 06

SOLAR ACTIVITY

Solar activity was extremely low during the past week.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was mostly quiet during the week. A brief period of active conditions (K=4 at Dourbes) occurred on April 11th due to a recurrent fast solar wind stream linked to a coronal hole.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 433 from 2009 Apr 13

SOLAR ACTIVITY

Solar activity was very low during the past week. A slow CME was seen off the eastern solar limb on April 17, first observed at 10:06 UT by LASCO-C2. It originated from a prominence eruption and it is not expected to be geoeffective

GEOMAGNETIC ACTIVITY

Geomagnetic activity was mostly quiet with some unsettled periods due to a recurrent fast solar wind stream linked to a coronal hole that arrived to the Earth's orbit on April 17.

SIDC DEFINITIVE INTERNATIONAL AND
HEMISPHERIC SUNSPOT NUMBERS FOR 2008

	OCTOBER			NOVEMBER			DECEMBER		
Date	Ri	Rn	Rs	Ri	Rn	Rs	Ri	Rn	Rs
1	0	0	0	9	9	0	0	0	0
2	0	0	0	11	11	0	0	0	0
3	0	0	0	11	11	0	0	0	0
4	7	0	7	10	10	0	0	0	0
5	0	0	0	8	8	0	0	0	0
6	0	0	0	7	7	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	7	0	7	0	0	0	9	0	9
11	9	9	0	12	12	0	8	0	8
12	11	11	0	14	14	0	9	0	9
13	9	9	0	9	9	0	0	0	0
14	9	9	0	8	8	0	0	0	0
15	8	8	0	8	8	0	0	0	0
16	12	8	4	8	8	0	0	0	0
17	8	0	8	7	7	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	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	0	0	0
30	0	0	0	0	0	0	0	0	0
31	9	9	0				0	0	0
MEAN :	2.9	2.0	0.9	4.1	4.1	0.0	0.8	0.0	0.8