

Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 14

Number 158

April 2009

Franky Dubois Poelkappellestraat 39 langemark 8920

Web site: <http://www.bso.vvs.be> e-mail: astrosun@skynet.be

Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

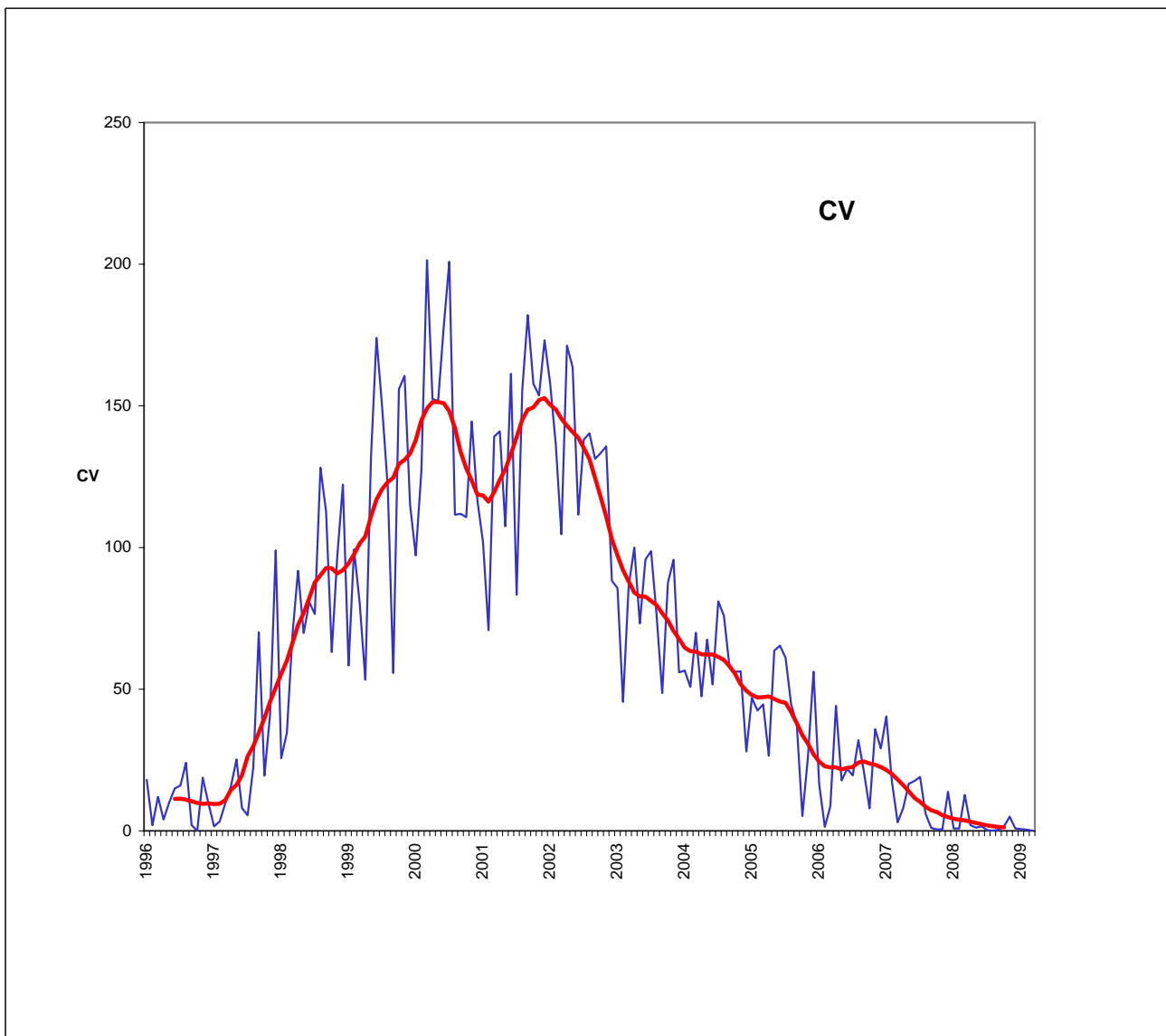
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



Mean of March observations

Groups :	N	0,10	Wolfnumb N	0,5	Beck :	1,1
	S	0,07	S	0,6	CV	0,2
	N+S	0,17	N+S	1,02		
522 observations	29 observers					

Sunspotnumbers VVS Belgium

Month: April 2009

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	0	0	0	0	0	0	0	25
2	0	0	0	0	0	0	0	0	25
3	0	0	0	0	0	0	0	0	20
4	0	0	0	0	0	0	0	0	5
5	0	0	0	0	0	0	0	0	15
6	1	0	1	3,9	0	3,9	3	1	20
7	0	0	0	0	0	0	0	0	10
8	0	0	0	0	0	0	0	0	15
9	0	0	0	0	0	0	0	0	14
10	0	0	0	0	0	0	0	0	23
11	0	0	0	0	0	0	0	0	18
12	0	0	0	0	0	0	0	0	11
13	0	0	0	0	0	0	0	0	16
14	0	0	0	0	0	0	0	0	24
15	0	0	0	0	0	0	0	0	21
16	0	0	0	0	0	0	0	0	7
17	0	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	18
19	0	0	0	0	0	0	0	0	23
20	0	0	0	0	0	0	0	0	21
21	1	0	1	6,8	0	6,8	7	1	26
22	1	0	1	3,2	0	3,2	2	1	21
23	0	0	0	0	0	0	0	0	23
24	0	0	0	0	0	0	0	0	22
25	0	0	0	0	0	0	0	0	17
26	0	0	0	0	0	0	0	0	7
27	0	0	0	0	0	0	0	0	18
28	0	0	0	0	0	0	0	0	16
29	0	1	1	0	7	7,0	11	2	20
30	0	1	1	0	9,6	9,6	9	1	20
	0,10	0,07	0,17	0,5	0,6	1,02	1,1	0,2	522

Monthly mean: 1,0 Covering: 30/30 Spotless days: 25
 Observations: 522 Number of observers: 29

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

Poekapellestraat 39
 B8920 Langemark
 Belgium
 e-mail : astrosun@skynet.be

Observers:

Devriese ; De Ceuninck ; Janssens ; Publ obs Mira ; Bourgeois ; Macharis
 De Backer; Dubois ; Gysel ; Kleber ; Deman ; Taillieu ; Carels ; Dewaele
 Mees ; 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

VVS Belgian Solar Observers Prominence number Rp

		Month : April 2009										asm					Lille																			
		J. Janssens PST					F. Dubois PST					E. De Ceunick PST					L. Meeus PST					J. Hamsch 60					G. Deman 20/20									
Day	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp						
1	8:25	3	2	4	5	45	8,54	3	2	4	5	45	08.50	2,5	3	4	4	44																		
2							8,24	3	2	2	3	23	08.00	3,0	3	3	3	33																		
3																																				
4																																				
5																																				
6							9,35	3,5	1,5	3	4	34	09.00	2,0	3	2	2	22																		
7							17,03	2,5	2	3	5	35	17.00	1,5	3	3	3	33																		
8							15,52	3	1,5	1	1	11	13.45	2,5	2,5	4	4	44																		
9							16,12	3	1,5	2	4	24	16.30	2,5	3	1	1	11																		
10	7:10	3	2,5	2	4	24							08.00	2,5	2,5	2	2	22							15u25	3	2,5	4	4	44						
11	8:20	4	2	5	7	57							08.30	1,0	3,5	1	1	11							10u25	3	2,5	4	4	44						
12													16.30	1,0	3,5	2	2	22																		
13																																				
14							8,51	3,5	1,5	3	4	34	09.00	1,5	3	3	4	34																		
15							7,40	4	2	3	6	36	08?30	1,5	3,5	5	5	55																		
16																																				
17																																				
18																																				
19	6:40	4	2	2	2	22	7,50	3,5	1	0	0	0	09.00	2,5	3	0	0	0																		
20							10,48	2,5	2	1	3	13	09.30	1,5	3	1	1	11																		
21																																				
22							9,18	3	2,5	1	3	13	09.30	1,5	3	1	1	11																		
23							6,49	3,5	1,5	2	3	23	09.00	1,5	3	0	0	0																		
24							6,50	2,5	2	2	5	25	09.30	2,0	2,5	4	7	47																		
25	6:50	3	2,5	4	7	47																														
26																																				
27							6,40	2,5	1,5	1	2	12	09.30	2,0	3	1	1	11																		
28							10,02	3	3	1	1	11	11.00	1,5	2	1	1	11																		
29							7,51	4	1	1	1	11	08.00	2,0	3	3	3	33																		
30							7,45	4	1	2	2	22	09.00	3,0	3	2	2	22																		
5		3,4	2,2	3,4	5	39,0	18	3,2	1,7	1,9	3,2	22,6	22	1,9	3	2,0	2,2	22,2	1	3,0	2,0	3	7,0	37,0	12	2,8	2,6	2,2	2,4	24,1	11	2,9	1,8	3,27	4,9	37,6

		O. Steen PST					H. Coekelberghs PST					J. Claes PST					A Gabriel asp 60					R. Blondeel asp 60					G. Gubbels PST									
Day	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp	time	Q	W	H	e	Rp						
1	8,00	4	2	4	4	44	15:35	3	3	3	3	33	1030	4	2	4	5	45	8:10	4	1	5	8	58	11:00	2	2	2	2	22	8:01	4	1	5	12	62
2	14,05	4	2	4	5	45	15:50	3	3	3	5	35	0830	3	2	3	5	35	8:15	3	2	4	9	49							12:51	3,5	1	3	7	37
3	13,15	4	2,5	3	5	35	14:50	3	4	3	4	34	0800	4	1	4	8	48	8:40	3	2	5	8	58	9:10	2	2	3	3	33	8:10	4	1	6	13	73
4																																				
5	12,20	3,5	2	3	4	34																														
6	11,45	4	2,5	3	3	33																														
7	16,05	3,5	2,5	2	2	22																														
8	16,00	3,5	2	2	2	22																														
9	17,50	3	2	4	6	46	15:55	4	4	4	6	46	1530	3	2	3	4	34																		
10	7,20	3,5	2	4	7	47	15:10	3	3	2	2	22	1030	4	1	4	8	48	7:25	4	1	5	11	61												
11	7,25	4	2,5	5	6	56	9:50	4	4	6	12	72	1330	3	2	4	6	46	8:40	3	2	5	9	59												
12	14,55	3,5	3	2	2	22	12:15	3	3	4	4	44																								
13	12,30	3,5	2,5	2	4	24	13:25	3	3	4	6	46	1130	3	2	4	4	44	9:35	2	2	6	9	69												
14	8,55	3,5	2	3	4	34	11:45	3	3	2	4	24																								
15	15,30	4,5	2	7	9	79	12:00	4	3	2	2	22																								
16																																				
17																																				
18	9,40	3,5	2,5	2	2	22																														
19	6,55	3	2	2	2	22																														
20	8,10	4	2,5	4	4	44																														
21							16:02	4	4	2	2	22																								
22																																				
23							15:50	3	3	4	6	46																								
24							14:55	4	3	3	5	35																								
25																																				
26																																				
27	14,50	3	3	1	2	12																														
28	12,30	3	2,5	0	0	0																														
29	8,15	3	2	3	3	33	15:45	4	3	4	5	45																								
30	6,50	3,5	2	2	2	22																														
21		3,6	2,3	3	3,7	33,2	14	3,4	3,3	3,3	4,7	37,6	14	3,6	1,5	2,9	4,6	33,9	21	3,4	1,8	4,05	7	47,5	2	2,0	2,0	2,5	2,5	27,5	15	3,6	1,4	3,2	7,4	39,4

		T.Spaninks PST				
Day	time	Q	W	H	e	Rp
1	10,17	3	2	8	9	89
2	15,20	3	2	2	3	23
3	13,10	3	1	5	8	58
4						
5	8,27	3	2	4	7	47
6						
7						
8						
9						
10	8,03	4	2	5	10	60
11	7,55	3	2	9	14	104
12						
13	12,22	3	3	4	6	46

Prominence number Rp

Belgian solar observers

Month: April 2009

Day	Q	Wedel		H	e	Rp	el. Obs	Stdev	OBS
1	3,2	2,2		3,8	4,4	42,4	2	9,8	11
2	3	2,1		3,0	4,9	34,9		8,6	9
3	3,2	2,1		3,8	6	44	1	11,9	7
4									
5	3,5	1,7		4,3	8,3	51,3	1	8,1	4
6	3,4	2		3,8	5,5	43,5	1	11,9	5
7	2,5	2,5		2,7	3,3	30,3		7	3
8	3	2,5		3	3,3	33,3	1	11	4
9	3,2	2,4		3,4	4,8	38,8	1	9,7	6
10	3,6	1,5		4,3	7,7	50,7	3	9,8	10
11	3,6	2,5		4,7	7,8	54,8	3	11,9	9
12	2,3	3,3		2	2	22		0	2
13	3,1	2,8		3,4	5	39	1	9,8	6
14	3,1	2,3		3,4	4,5	38,5		8,7	8
15	2,9	2,8		3	4,6	34,6	2	12,7	7
16	4	3		2	2	22			1
17									
18	2,8	2,4		1,9	3,9	22,9		10,8	8
19	3,3	2,1		1,6	2,3	18,3	1	16,2	9
20	3,4	1,9		2,7	4,3	31,3	2	10,9	8
21	3,4	2,5		1,2	1,5	13,5	1	8,8	7
22	2,9	2,4		1,4	3,2	17,2		5,3	5
23	2,9	1,9		2,4	3,9	27,9	2	14	10
24	3,2	1,9		3,8	7	45	2	9	7
25	3,3	1,9		4,3	8,3	51,3		5,5	4
26									
27	2,9	2,1		1	1,5	11,5	1	0,6	4
28	2,5	2,5		0,7	0,7	7,7		6,4	3
29	3	2,5		3	3,3	33,3	1	9,4	5
30	3,7	1,7		2,5	2,8	27,8		9,5	6
	3,14	2,28		2,9	4,3	32,9	26	9,1	168

Monthly mean: **32,9** Covering: **27/30**
 Observations: **168** Number of observers: **13**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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 B8920 Langemark
 Belgium
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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 : April 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	0	1	0	1	1	0	0	0,8	1	1	1	1	1	1,0	0	1	1	1	0,8
7	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	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	0	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	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																					
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	1	1	0	1	5	0	1	1,3	12	0	2	0	1	3,8	0	1	4	3	2,0
22	1	0	0	0	0	1	1	0	0	0,5	1	1	1	0	0	0,8	1	0	1	2	1,0
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	0	0	0	0	0	0	0	0	0	0,0	0	0	0	0	0	0,0	0	0	0	0	0,0
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	1	3	0	0	0	2	3	0	3	1,5	7	6	7	0	0	5,0	7	0	8	0	5,0
30	2	1	2	1	0	1	1	1	1	1,3	1	3	2	1	1	1,8	4	1	1	0	2,0
##	0,2	0,2	0,2	0,1	0,0	0,2	0,5	0,2	0,1	0,2	1,0	0,4	0,2	0,4	0,1	0,4	0,5	0,1	0,7	0,3	0,4

Becknumber

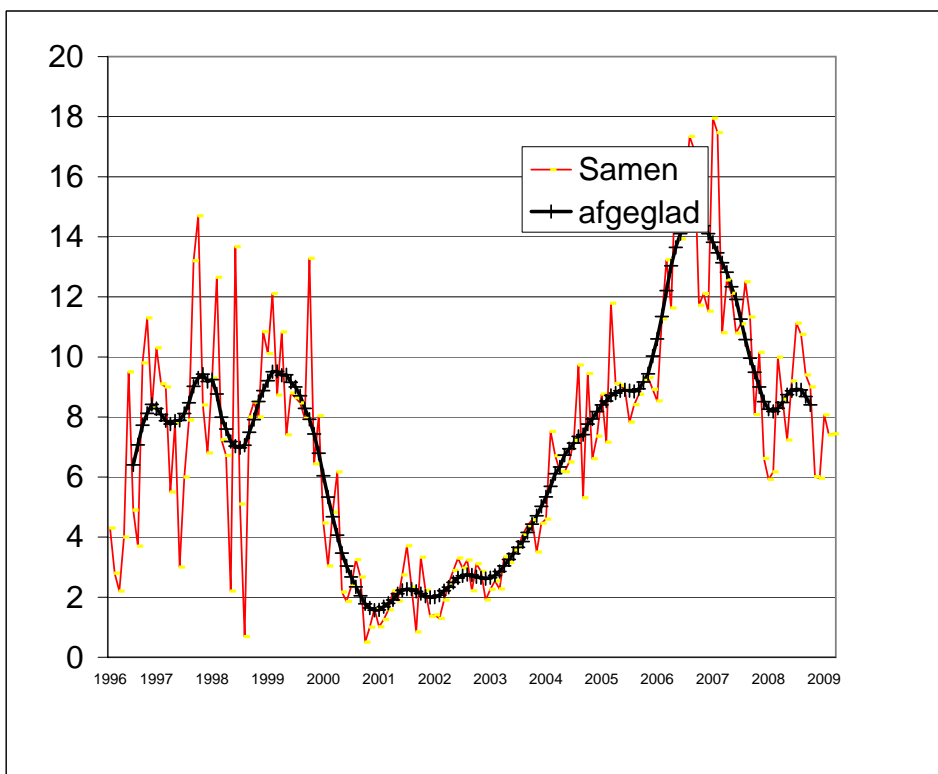
Date	F.Dubois	O.Steen	L.Meeus	P.J. Dekelver	J.Carels	G.Gubbels	S.Dufoer	D.Van Hesseche	A.T.Son	J.Bourgeois	H.Coeckelberghs	De Backer	Pbl Obs Mira	J.Claes	F.Feys	R.Verboven	Mean	Date	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	4	4	0	4	4	4	0	0	0	0	0	0	0	0	4	0	2	6	6
7	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	0	8
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	0	0	0	0	0	0	0	0	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	13
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
17	0	0	0	0	0	0	0	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	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	19
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
21	0	0	4	8	4	24	8	0	8	0	0	0	4	0	20	16	6	21	21
22	4	0	0	4	0	4	0	0	0	0	0	0	0	0	0	4	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	24	28	0	0	0	28	0	0	16	0	12	0	0	0	20	0	12	29	29
30	12	8	12	0	4	4	8	0	4	8	0	4	0	28	8	0	9	30	30
	1,69	1,7	0,9	0,9	0,5	3	1	0	1	1	0	1	4,0	0,0	2,3	2,6	1,0	31	31

Belgian Solar Observers

Polar Faculae

Month: April 2009

Date	Dubois 125mm F20			Steen 102mm F15			Deman 150mmF15			Gabriel 250 mm F20			Feys 150mm F12			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				5	8	4,0				14	24	4				1	5	3,0	2	4	4	4	9
2				2	4	4				13	26	3	3	8	4				1	0	4	4	5	4
3				5	9	4,0				10	24	3							1	2	4	12	13	4,5
4																								
5	1	6	4							14	26	4							0	0	4	3	4	3,5
6	3	6	3	2	7	3,5				11	23	3										8	7	4,5
7				3	6	4,0																2	6	3,5
8	6	11	3										13	26	4									
9																			1	5	4			
10	3	9	3	3	6	3,5				12	26	4	15	25	4	0	2	3,0	0	1	4	3	8	4,5
11				4	7	4,0										2	4	4,0	3	1	4	3	6	4
12													5	18	4									
13				2	6	3,5							8	24	5				0	1	4	1	4	3,5
14	4	8	3	3	7	3,5	5	17	4	15	29	4	16	23	4				0	1	4	5	8	4,5
15	2	5	4	4	8	3,5				16	27	4										4	6	4
16																								
17													11	14	4									
18				1	6	3,5							16	21	5				7	3	4	2	4	3,5
19	3	6	3	3	4	3,0	8	15	3	9	21	4				5	4	4	0	0	4	3	4	4
20				2	4	4,0				13	22	4	12	18	5				0	1	4	3	6	3,5
21										9	20	4	15	24	4				0	1	4	4	8	4
22										11	21	4	7	4	4							5	7	3,5
23	3	14	3							9	20	3	22	16	4				0	1	4	1	5	4
24	0	6	3							8	21	3							3	2	4	3	6	4,5
25										11	25	4	10	13	3	0	2	3,0	1	2	4	2	6	3,5
26													4	10	3									
27	3	9	3										16	20	4									
28													17	11	5									
29	2	8	4	2	3	3,0				7	18	3	15	16	4							2	4	4
30	2	12	4	2	3	3,5	10	25	4	7	17	4	13	17	5							2	3	4
31																								
	2,67	8,33		2,87	5,87		7,7	19,0		11,1	22,9		12,11	17,11		1,60	3,40		1,19	1,56		3,62	6,14	



SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 434 from 2009 Apr 20

SOLAR ACTIVITY

No flaring activity was noticed this week. No coronal hole of any interest transited the solar disk.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was low: Kp did not exceed the value of 2. ACE-data show a coronal signature signature from Apr 23 onwards. The maximum solar wind speed was only 450 km/s. The Bz component of the interplanetary magnetic field stayed small and predominantly positive.

An all-quiet-alert was valid throughout the whole week.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 435 from 2009 Apr 27

SOLAR ACTIVITY

There was no significant solar activity during the period. The SIDC ALL QUIET ALERT remained active during the full week. There was 1 coronal bright point that developed into a small active region (NOAA AR 1016) just before rotating over the western limb. Sunspots were observed in this region on April 29 and 30. Very modest (A-class) flaring activity was also observed by the GOES X-ray monitor.

GEOMAGNETIC ACTIVITY

The solar wind speed remained below 400 km/s during the whole period. NOAA's estimated Kp index did not get higher than Kp=2

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 436 from 2009 May 04

SOLAR ACTIVITY

The X-ray flux was below the measurement level of GOES until May 08. From that day, several peaks in the A and B level were measured. The source was a new solar cycle active region with high latitude. The first of the two active region became visible in SOHO magnetograms from May 08 onwards. STEREO-B was able to see it before this date. It was probably this duo of active regions that was responsible for the type II burst on May 05. SOHO/LASCO was not observing at the moment of the burst. But, the CME was visible in COR1 and COR2 on board of STEREO-B. The radio site at Humain detected the burst, see <http://www.sidc.be/news/111/welcome.html>.

A small coronal hole transited the solar disk this week. The coronal hole was detected by the EUV telescopes on board of STEREO-B. SOHO/EIT had a CCD-bakeout from May 03 to 08.

GEOMAGNETIC ACTIVITY

The co-rotating interaction region associated with the coronal hole mentioned in the previous section arrived late May 05. The total interplanetary magnetic field carried with the solar wind was small. The solar wind speed was maximum 500 km/s. The Bz had small negative values, however for a time period long enough to produce some geomagnetic disturbance. The Kp became a few times 4 on May 07 and 08. The all-quiet-alert stayed valid for the complete week.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 437 from 2009 May 11

SOLAR ACTIVITY

NOAA AR 1017 has moved across the solar disk during the past week. Catania 4, the sunspot group associated with this active region, has a magnetic beta configuration and belongs to the new solar cycle 24. It produced several A-flares in the beginning of the week.

On May 17th, an active region belonging to the previous solar cycle turned over the east limb of the sun.

CACTUS detected several CME's during the past week, but none of them was earth-directed. There were no coronal holes visible on the solar disk.

GEOMAGNETIC ACTIVITY

Geomagnetic conditions were quiet during the whole week, except on May 14th when the Kp-index reached the value 4, indicating unsettled space weather conditions. This was probably due to the earth crossing the heliospheric current sheet.

The solar wind speed did not go above 450 km/s. The Bz value of the interplanetary magnetic field was small during the whole week, except for a short period on May, 14th.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 438 from 2009 May 18

SOLAR ACTIVITY

Solar activity was very low during the week, with no significant flaring event.

In addition to NOAA AR 1017, another active region appeared and developed sunspots on May 22nd in the southern hemisphere; it received later on the label AR 1018 from NOAA.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was extremely low during the week.
