

Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 13

Number 147

May 2008

Franky Dubois Poelkapellestraat 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

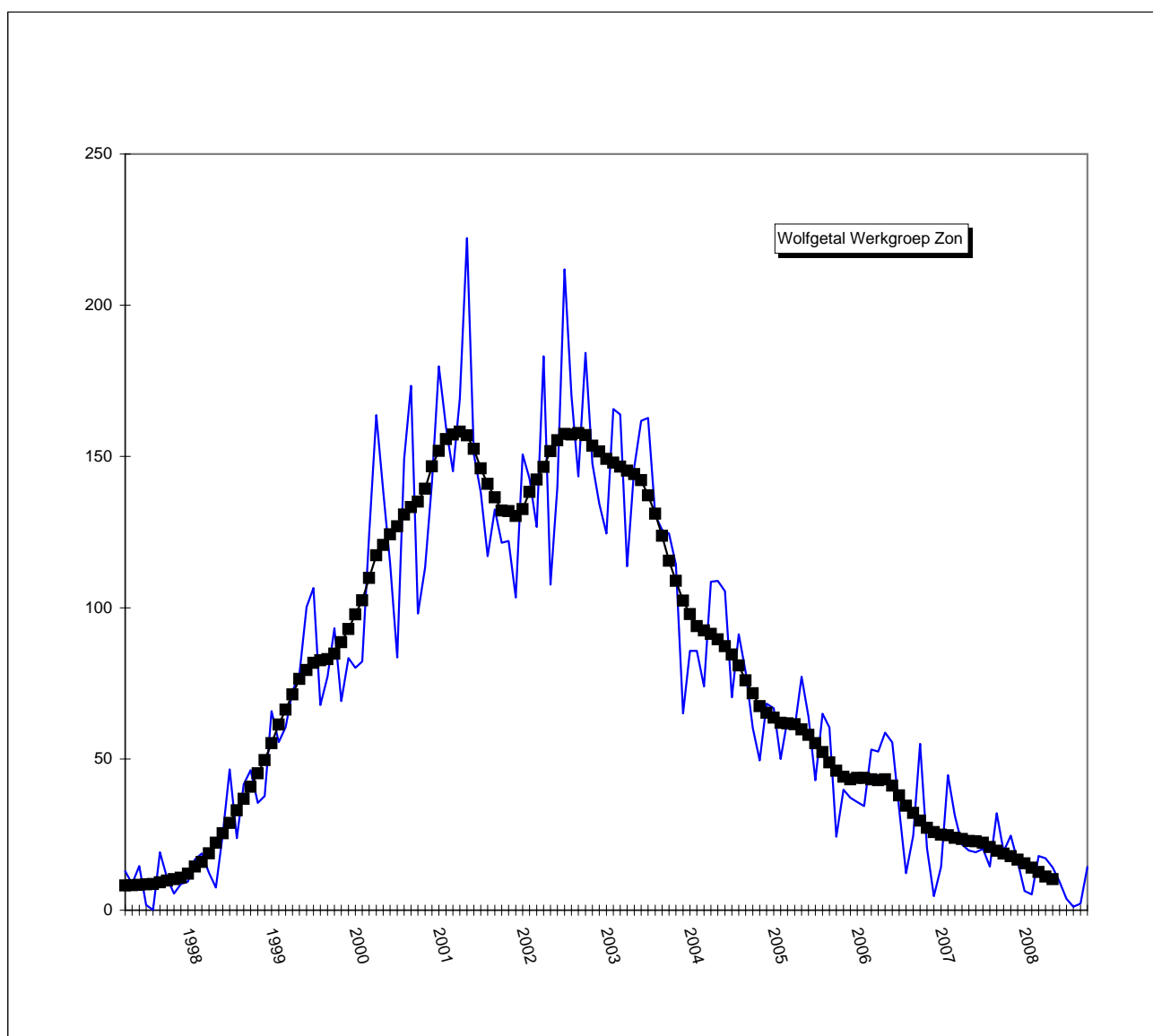
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



Mean of May observations

Groups :	N	0,29	Wolfnumb N	2,2	Beck :	6,4
	S	0,32	S	2,6	CV	1,1
	N+S	0,61	N+S	4,8		
567 observations	30 observers					

Wolfnumbers Belgian Solar Observers

Month: **May 2008**

Dag	SIDC			L. Meeus			H.Coeckelberghs			Publ Obs Mira			O. Steen			F. Dubois			L. Claeys			G. Deman			A.T.Son			H. De Backer			B. Thooris			A Gabriel			Dag
	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	
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	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	0	0	0	0	2			
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	0	0	0	0	0	0	0	0	0	3			
4	7	1	2	12	0	0	0	0	0	0	1	2	12	1	3	13	1	3	13	1	2	12	1	4	14	0	0	0	0	0	0	1	3	13	4		
5	8	1	4	14	0	0	0	0	0	0	1	4	14	1	7	17	1	1	11	1	5	15	1	3	13	0	0	0	0	0	1	5	15	5			
6	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	0	0	0	6			
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	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	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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12			
13	8	1	3	13	0	0	0	0	0	0	1	2	12	1	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	13	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	0	0	0	0	0	0	0	0	14			
15	9	1	5	15	0	0	0	0	0	0	1	3	13	2	3	23	1	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15		
16	14	2	5	25	0	0	0	0	0	0	2	5	25	3	5	35	3	5	35	1	3	13	0	0	0	0	0	0	0	0	0	0	0	0	16		
17	12	0	0	0	0	0	0	0	0	0	2	7	27	2	8	28	1	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17			
18	15	2	10	30	0	0	0	0	0	0	2	11	31	2	13	33	1	6	16	2	12	32	1	3	13	0	0	0	0	0	0	0	0	18			
19	11	2	6	26	0	0	0	0	0	0	2	7	27	2	10	30	1	2	12	2	7	27	0	0	0	0	0	0	0	0	0	0	0	0	19		
20	7	3	6	36	0	0	0	0	0	0	1	1	11	1	3	13	1	1	11	2	2	22	1	1	11	0	0	0	0	0	0	0	0	0	20		
21	0	0	0	0	0	0	0	0	0	0	1	1	11	1	1	11	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	1	2	12	1	1	11	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	0	0	0	0	23		
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	0	0	0	0	0	0	0	0	0	0	24		
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	0	0	0	0	0	0	0	0	0	0	25		
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	0	0	0	0	0	0	0	0	0	0	26		
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	0	0	0	0	0	0	0	0	0	0	27		
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	0	0	0	0	0	0	0	0	0	0	28		
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	0	0	0	0	0	0	0	0	0	0	29		
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	0	0	0	0	0	0	0	0	0	0	30		
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	0	0	0	0	0	0	0	0	0	31		
#	2,9	6,8			0,0			12,3			6,6			7,5			4,8			7,3			2,8			3,1			0,0			5,2					

Observations of the SIDC are not included in the Belgian monthly Wolfnumber.
 Publ Obs Mira : observers : Francis Meeus , Guido Mattheus and Marc Rayen

Dag	SIDC			J. Devriese			J. Bourgeois			KSB			Carels			G.Gubbels			J. Claes			E. De Ceuninck			S. Kleber			B. Tailieu			S. Dufoer			F. van Loo			Dag
	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	
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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
4	7	1	2	12	0	0	0	0	0	0	1	2	12	1	3	13	1	2	12	0	0	0	1	2	12	1	2	12	1	3	13	0	0	0	0	4	
5	8	1	4	14	0	0	0	0	0	0	1	4	14	1	3	13	1	3	13	1	3	13	1	5	15	0	0	0	1	4	14	1	5	15	0	0	5
6	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	0	0	0	0	6		
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	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	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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12		
13	8	1	2	12	0	0	0	0	0	0	1	2	12	1	1	11	0	0	0	0	0	0	2	4	24	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	0	0	0	0	0	0	0	0	0	14		
15	9	0	0	0	0	0	0	0	0	0	1	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15		
16	14	1	3	13	0	0	0	0	0	0	1	3	13	3	6	36	3	8	38	2	4	24	2	4	24	0	0	0	3	4	34	0	0	0	16		
17	12	0	0	0	0	0	0	0	0	0	2	9	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17		
18	15	0	0	0	0	0	0	0	0	0	2	9	29	2	13	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18		
19	11	1	3	13	0	0	0	0	0	0	2	2	22	2	6	26	2	6	26	2	6	26	2	8	28	0	0	0									

Sunspotnumbers VVS Belgium

Month: **May 2008**

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	0	0	0	0	0	0	0	19
2	0	0	0	0	0	0	0	0	25
3	0	0	0	0	0	0	0	0	25
4	0	1	1	0	8,8	8,8	7	2	28
5	0	1	1	0	10,8	10,8	12	2	26
6	0	0	0	0	0	0	0	0	23
7	0	0	0	0	0	0	0	0	22
8	0	0	0	0	0	0	0	0	23
9	0	0	0	0	0	0	0	0	22
10	0	0	0	0	0	0	0	0	25
11	0	0	0	0	0	0	0	0	23
12	0	0	0	0	0	0	0	0	24
13	1	0	1	6,5	0	6,5	6	1	22
14	0	0	0	0	0	0	0	0	18
15	1	0	1	6,3	0	6,3	8	1	12
16	2	1	3	14,8	10,8	25,6	35	6	18
17	2	0	2	18,9	0	18,9	30	3	8
18	1	1	2	9,5	13,4	22,9	43	5	14
19	1	1	2	7,7	14,6	22,3	36	8	21
20	1	2	3	3,6	13	16,6	12	3	21
21	0	2	2	0	6,3	6,3	5	1	19
22	0	1	1	0	3,9	3,9	4	1	9
23	0	0	0	0	0	0	0	0	12
24	0	0	0	0	0	0	0	0	18
25	0	0	0	0	0	0	0	0	18
26	0	0	0	0	0	0	0	0	12
27	0	0	0	0	0	0	0	0	12
28	0	0	0	0	0	0	0	0	17
29	0	0	0	0	0	0	0	0	3
30	0	0	0	0	0	0	0	0	9
31	0	0	0	0	0	0	0	0	19
	0,29	0,32	0,61	2,2	2,6	4,8	6,4	1,1	567

Monthly mean: **4,8** Covering: **31/31** Spotless days: **20**
 Observations: **567** Number of observers: **30**

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 ; Dekelver**

Prominence number Rp

Belgian solar observers

Month: May 2008

Day	Q	Wedel		H	e	Rp	el. Obs	Stdev	OBS
1	2,8	2,1		5,3	8,5	61,5	1	6,5	7
2	2,9	2		5,1	8,9	59,9		8,8	8
3	3,2	2,2		4,6	7,8	53,8	3	7,4	11
4	3	2,1		5,1	6,4	57,4	2	11,7	11
5	3,4	1,6		5,7	6,8	63,8	1	11,1	10
6	3,3	1,9		5,2	8	60	2	8,6	11
7	3,6	1,6		4,9	8,4	57,4	2	7,4	9
8	3,6	1,7		4,7	9,2	56,2	1	13,5	10
9	3,2	1,9		3,8	5,5	43,5		8,8	11
10	3,4	2,4		1,8	2	20	2	9,4	11
11	3,3	2,4		2,7	3,6	30,6	2	9,6	11
12	3,4	1,6		4	5,2	45,2	2	8,5	11
13	3,2	1,9		5,1	7	58	1	10,3	8
14	2,8	1,8		5,3	8,4	61,4		11,1	8
15	3	1,8		4,7	8,7	55,7	2	11	5
16	3,3	2		4,3	8,7	51,7	1	7,2	5
17	3,5	2,5		2	5	25		0	2
18	3,4	1,9		5	8,8	58,8	2	11,8	7
19	3	1,6		4,7	6,9	53,9	2	12,7	9
20	3,3	1,7		3	4,7	34,7		9,9	10
21	2,7	2		3,6	5,1	41,1	1	8,4	10
22	3	2,3		1	2	12	1	1,4	3
23	3	2,2		4	5,7	45,7	1	11,2	7
24	3	2,4		3	4,4	34,4	2	8,6	7
25	3,3	2		2,9	5,1	34,1		10,2	8
26	3	2,3		2	2	22	1	0	3
27	3,2	2,5		2	2,3	22,3		11,5	3
28	3,1	2		2	2,2	22,2	1	8,1	6
29	3,8	2,8		2	2,5	22,5		16,3	2
30	3	2,5		2	2	22		16	2
31	3	2,3		3,2	4,8	36,8	1	8,8	7
	3,18	2,06		3,7	5,7	42,7	34	9,2	233

Monthly mean: **42,7** Covering: **31/31**
 Observations: **233** 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 : $H \cdot 10 + e$

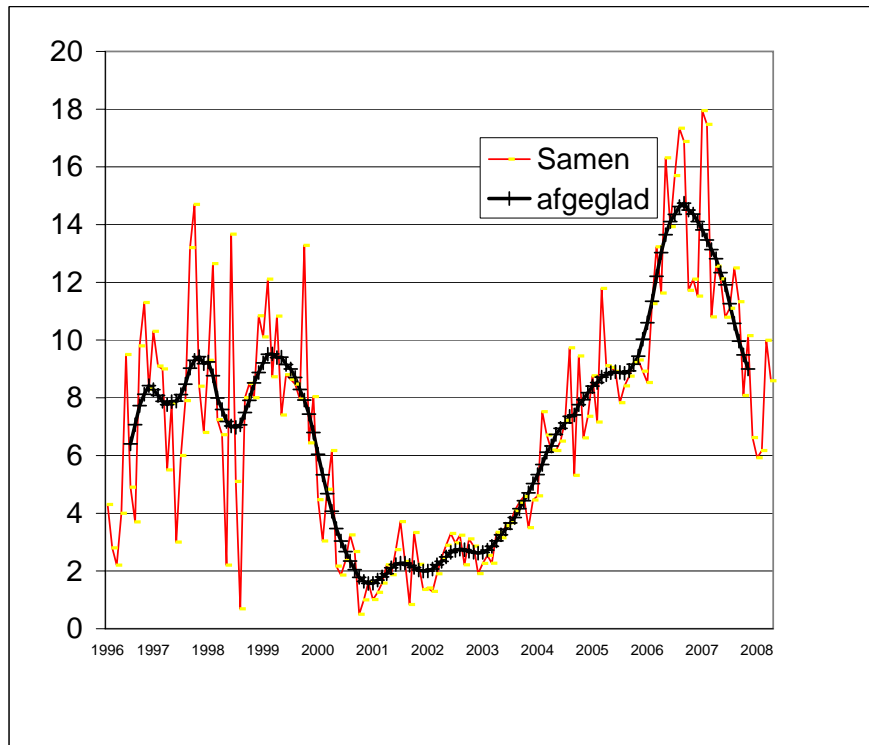
More info at : <http://members.chello.be/j.janssens/>

Belgian Solar Observers

Polar Faculae

Month: May 2008

Date	Dubois 125mm F20			Steen 102mm F15			Deman 150mm F15			Gabriel 250 mm F20			Carels 150mm F8			Janssen 200mm F10			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				4	5	3,5				14	20	3							0	0	4	8	11	3,5
2				2	3	3,5				16	21	4										9	10	4,5
3	5	7	4	4	6	4,0	16	7	4	19	21	4	3	2	5	3	3	3,0				11	9	4,5
4	4	5	3	3	5	3,5				18	19	4	1	0	4	5	5	3,5	0	0	4	5	8	4,5
5	5	9	4	4	5	4,0	13	21	3	16	16	4	4	3	4				1	3	4	9	7	4
6	4	14	4	4	6	4,0	15	13	3	22	19	4							3	2	4	6	10	4,5
7	3	11	4	4	6	4,0				20	22	5	1	3	4				0	0	4	7	11	4,5
8				6	7	4,0	15	19	4	20	18	4							1	3	4	7	9	4
9	1	5	3	3	4	4,0				19	18	4							3	1	4	7	11	4,5
10				4	5	3,5	12	17	4	18	15	5				5	9	4,5	1	1	4	5	9	4,5
11	3	4	3	6	8	4,0	21	16	4	19	15	4	0	2	4	2	6	4,5	3	1	4	6	7	4,5
12	5	10	4	6	8	4,0	14	16	4	23	14	5	2	2	4	3	6	3,5	0	2	4	4	6	4,5
13	9	13	3	4	6	3,5				19	14	4							0	0	4	2	8	3,5
14										19	15	3										3	7	3
15										22	16	4										4	6	3,5
16				3	5	3,5				23	15	4										4	9	3
17																								
18	10	3	3	8	8	3,5				19	9	3							1	3	4			
19				3	6	3,0				21	11	4	1	3	3				4	2	4	5	9	4
20	7	14	4	3	9	3,5				18	10	3							2	7	4	3	6	4
21	7	6	3	2	6	3,0				23	11	3	2	1	3	0	2	3,5	2	2	4	3	6	3,5
22	9	3	4							18	8	4	3	5	4									
23	3	5	4	3	4	3,0	22	14	4	20	12	4												
24	7	9	4	5	9	4,0				22	14	3				2	7	3,0				5	8	3
25				3	4	3,0				22	10	4										5	8	3
26										18	11	4												
27	6	7	3							23	10	3												
28	2	1	3	2	3	3,0				25	8	4							0	0	3			
29										21	9	4												
30				4	4	3,5																		
31										24	10	4				2,0	4,0	3,0	0,0	1,0	5	6,0	8,0	4,0
	5,29	7,41		3,91	5,74		16,0	15,4		20,0	14,2		1,89	2,33		2,78	5,33		1,24	1,65		5,64	8,32	



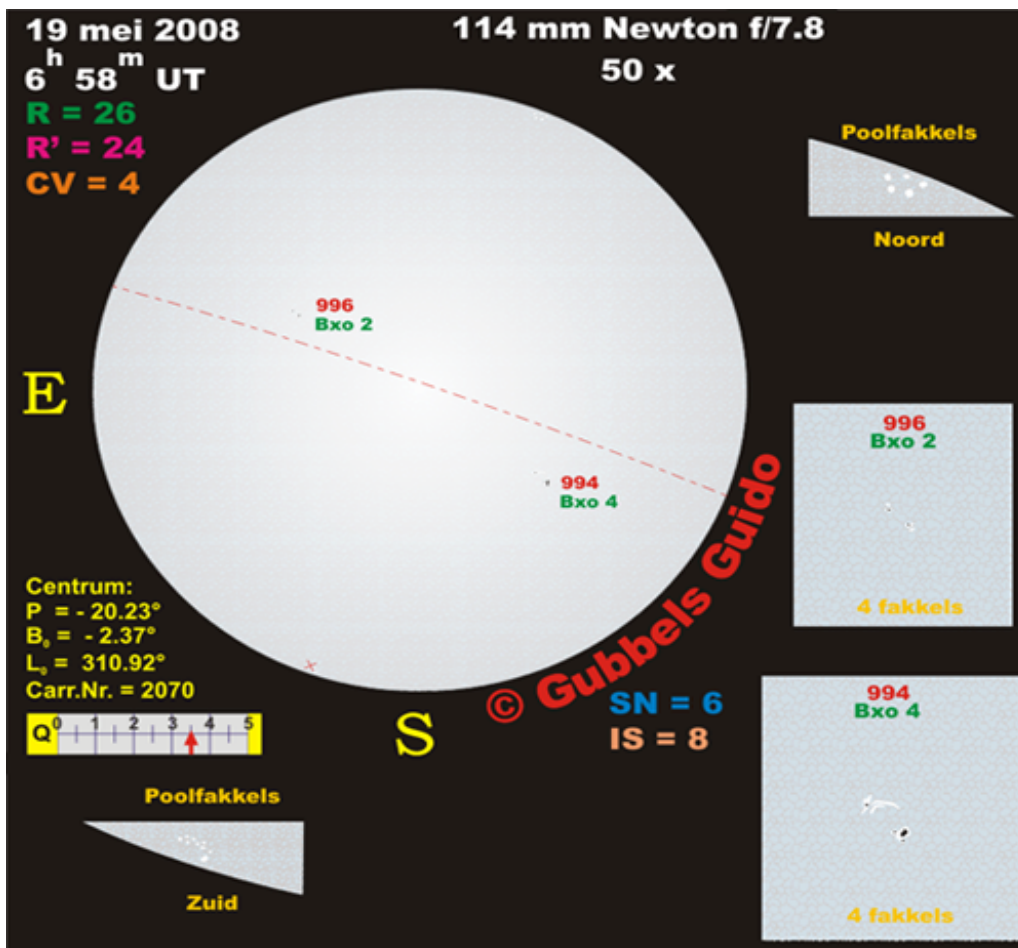
Different Relative Sunspotnumbers

Month : May 2008

CV										Pettisindex SN				Intersol IS			Becknumber																
Date	F.Dubois	O.Steen	L.Meeus	J.Carels	J.Janssens	G.Gubbels	H.De Backer	S.Durfoer	Mean	G.Gubbels	F.Dubois	O.Steen	J.Carels	F.Dubois	J.Carels	G.Gubbels	F.Dubois	O.Steen	L.Meeus	P.J. Dekelver	J.Carels	G.Gubbels	S.Durfoer	D.Van Hessche	A.T.Son	J.Bourgeois	H.Coeckelberghs	De Backer	Pbj Obs Mira	J.Claes	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	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	0	0	0	0	2
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	0	0	0	0	0	0	0	0	0	3
4	1	2	2	2	1	1	2	2	1,6	2	3	3	3	4	4	3	12	12	8	0	12	8	12	0	0	12	0	12	8	0	7	4	
5	2	2	2	2	2	2	2	3	2,1	3	7	4	3	8	4	4	28	16	16	8	12	12	20	0	16	0	12	8	12	12	5		
6	0	0	0	0	0	0	0	1	0,1	0	0	0	0	0	0	0	0	0	0	12	0	0	4	0	0	0	0	0	0	1	6		
7	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	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	0	0	0	0	8	
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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
13	1	1	2	1	0	0	2	0	1,2	0	2	2	1	3	1	0	8	8	12	0	4	0	0	0	8	0	8	0	0	5	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	0	0	0	0	0	0	0	14	
15	2	1	2	2	0	0	0	0	1,2	0	3	3	3	4	4	0	12	12	20	0	12	0	0	0	0	0	0	0	0	7	15		
16	4	4	3	4	14	4	0	0	5,5	7	5	5	6	4	7	11	20	20	20	64	24	98	0	13	16	20	16	0	31	16			
17	3	3	0	0	0	0	0	0	3,0	8	7	0	0	9	0	0	32	28	0	0	0	0	0	0	0	0	0	0	0	30	17		
18	4	5	7	5	0	0	0	0	5,3	13	11	9	0	15	11	0	52	44	68	48	36	0	0	12	0	0	0	0	43	18			
19	8	5	7	5	4	0	19	0	8,0	6	19	7	11	12	2	8	68	28	32	32	41	24	56	8	13	0	24	33	19				
20	2	1	4	3	4	0	1	0	2,5	6	3	1	3	4	3	8	12	4	24	12	12	24	4	12	4	12	4	11	20				
21	1	1	0	1	0	3	0	0	1,0	3	1	1	1	1	1	4	4	4	0	8	4	12	0	0	0	0	0	4	4	21			
22	1	1	0	0	0	0	0	0	0,7	1	2	0	0	1	0	0	4	8	0	0	0	0	0	0	0	0	0	0	4	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	0	23		
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	0	0	0	0	0	0	0	24		
25	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	25		
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	0	0	0	0	0	0	0	26		
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	0	0	0	0	0	0	0	27		
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	0	0	0	0	0	0	0	28		
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	0	0	0	0	0	0	0	29		
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	0	0	0	0	0	0	0	30		
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	0	0	0	0	0	0	31		
##	1,0	0,8	1,2	0,8	0,1	1,2	0,5	1,9	1,1	1,2	2,2	1,5	1,3	2,2	1,2	1,7	8,4	6	8	8,5	5	8	7	2	2	4	0	2	9,0	2,8	6,3		

N.O.A.A.	ZICHTBAAR		N.O.A.A.		MAX	MAX	classificatie							
Regio	van	tot	breedte	lengte	AREA	LENGTE	Macintosh							
10974	16-11-07	17-11-07	N13	200	0040	03	BXO	DAO						
10975	24-11-07	26-11-07	N02	103	0020	03	BXO	AXX						
10976	01-12-07	02-12-07	S09	333	0030	03	BXO							
10977	02-12-07	06-12-07	S05	290	0030	04	BXO	CSO	DSO	BXO				
10978	06-12-07	18-12-07	S09	223	0340	12	DSO	DAO	DKC	ESI	DAC	DAI	CAO	
10979	08-12-07	10-12-07	N08	80	0080	07	DSO	HAX						
10980	01-01-08	08-01-08	S06	239	0030	03	BXO	CS	CSO	HSX	AXX	DSO	AXX	
10981	04-01-08	06-01-08	N29	246	0020	03	CSO	BXO	AXX					
10982	29-01-08	04-02-08	S09	246	0060	07	BXO	DSO	CRO	BXO				
10983	25-02-08	28-02-08	S05	344	0030	06	AXX	BXO						
10984	05-03-08	06-03-08	S08	251	0030	03	BXO							
10985	10-03-08	10-03-08	S10	201	0090	05	BXO							
10986	15-03-08	17-03-08	S04	94	0020	03	BXO	AXX						
10987	23-03-08	30-03-08	S08	258	0040	03	DAI	DAC	DAI	DSI	DSO			
10988	24-03-08	30-03-08	S09	235	0300	12	DSI	DAO	EAI	CAO				
10989	25-03-08	04-04-08	S12	204	0080	05	HAX	DAO	DSO	CSO	AXX			
10990	14-04-08	15-04-08	N27	0	0010	03	AXX	BXO						
10991	19-04-08	20-04-08	S10	283	0010	02	BXO	AXX						
10992	22-04-08	24-04-08	N13	272	0040	04	CSO	AXX						
10993	04-05-08	05-05-08	S29	86	0020	04	BXO							
10994	16-05-08	20-05-08	S12	310	0050	04	AXX	AXX						
10995	16-05-08	17-05-08	N12	292	0010	04	AXX							
10996	16-05-08	20-05-08	N10	256	0030	06	BXO							
10997	26-05-08	26-05-08	S08	183	0010	01	AXX							
10998	10-06-08	13-06-08	S09	292	0040	04	CRO	HSX	CSO					

981, 990 and 993 are groups of cycle 24 !!



SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 385 from 2008 May 12
SOLAR ACTIVITY

Several small peaks in the X-ray flux output were measured by GOES. May 12 had the most dense concentration and the highest level of peaks: 11 spikes of which a few reached the B-level. On that day, the source of the activity was situated behind the east limb. Only on May 17, three active regions responsible for all those small flares were labelled.

A small equatorial coronal hole (CH) reached the central meridian on May 16. Behind this hole, a Y-shaped CH was visible.

GEOMAGNETIC ACTIVITY

No geomagnetic disturbances of any relevance were measured this week.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 386 from 2008 May 19
SOLAR ACTIVITY

Solar activity was very low over the whole week. The X-ray background flux remained below A level. There were two small sunspots groups of the old cycle in the first two days of the week but the Sun was again spotless for the rest of the week. A recurrent trans-equatorial coronal hole passed the central meridian early in the week but this feature had faded and shrunk compared to earlier solar rotations.

GEOMAGNETIC ACTIVITY

The geomagnetic field was quiet to unsettled over most of the week. Just one weak recurrent coronal hole disturbance raised the solar wind speed to a moderate maximum of 580 km/s on May 21 and caused sporadic active geomagnetic conditions from May 21 to May 23, mainly at high latitudes.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 387 from 2008 May 26
SOLAR ACTIVITY

Solar activity was very low over the whole week. The X-ray background flux remained below A level. The Sun was spotless for the week. A recurrent trans-equatorial coronal hole passed the central meridian early in the week.

GEOMAGNETIC ACTIVITY

The geomagnetic field was quiet to unsettled over the week, due to solar wind speed increase from May 28 till May 30 to around 500 km/s, only to increase further to around 600km/s for the remainder of the week. But geomagnetic activity remained low due to low solar wind speed density, hence during most of the week an All-Quiet Alert was in place.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 388 from 2008 Jun 02
SOLAR ACTIVITY

No active regions were observed during the period, nor did any flaring activity take place. The estimated ISN was zero for the full period.

GEOMAGNETIC ACTIVITY

The solar wind speed reached a broad maximum at 500 km/s on May 7.

The estimated Kp of NOAA never exceeded the Kp=3 level.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 389 from 2008 Jun 09

SOLAR ACTIVITY

Due to the low X-ray background flux, solar activity was quiet during the most of the week. The only sunspot group (NOAA AR 0998, no Catania number) appeared on the disk on June 11. It produced only one flare, the A4.6 flare

peaking at 23:31 UT on June 14. The flare was accompanied by a weak, narrow (around 60 degrees) and slow (around 250 km/s) CME that is unlikely to become geoeffective.

A narrow equatorial coronal hole reached the central meridian on June 11.

GEOMAGNETIC ACTIVITY

During the most of the week the Earth was inside a slow solar wind flow. The magnitude of the interplanetary magnetic field was weak to average. This resulted in quiet geomagnetic conditions. On June 13 the flow had a very low speed (less than 300 km/s) and low particle number density (3 particles per cm³ according to SOHO/CELIAS).

Around the noon of June 14 an interplanetary sector boundary was crossed. In the evening of the same day an interaction region between the slow and fast solar wind flows has arrived, followed by the fast flow produced by the equatorial coronal hole. The solar wind speed and the interplanetary magnetic field magnitude reached 700 km/s and 19 nT respectively. Active geomagnetic conditions up to the minor storm level (K = 5) were reported by NOAA and IZMIRAN.

SIDC-NEWS: DEFINITIVE INTERNATIONAL AND HEMISPHERIC SUNSPOT # NUMBERS from the SIDC (RWC-Belgium) SIDC DEFINITIVE INTERNATIONAL AND HEMISPHERIC SUNSPOT NUMBERS FOR 2007

	OCTOBER			NOVEMBER			DECEMBER		
Date	Ri	Rn	Rs	Ri	Rn	Rs	Ri	Rn	Rs
1	0	0	0	0	0	0	10	0	10
2	0	0	0	0	0	0	9	0	9
3	0	0	0	0	0	0	7	0	7
4	0	0	0	0	0	0	9	0	9
5	0	0	0	0	0	0	8	0	8
6	11	0	11	8	0	8	16	0	16
7	9	0	9	0	0	0	15	0	15
8	7	0	7	0	0	0	25	0	25
9	0	0	0	0	0	0	26	0	26
10	0	0	0	0	0	0	24	0	24
11	0	0	0	0	0	0	24	0	24
12	0	0	0	0	0	0	28	0	28
13	0	0	0	0	0	0	30	0	30
14	0	0	0	0	0	0	24	0	24
15	0	0	0	0	0	0	22	0	22
16	0	0	0	10	10	0	18	0	18
17	0	0	0	9	9	0	11	0	11
18	0	0	0	0	0	0	7	0	7
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	10	10	0	0	0	0
25	0	0	0	8	8	0	0	0	0
26	0	0	0	7	7	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	0	0	0				0	0	0

MEAN : 0.9 0.0 0.9 1.7 1.5 0.2 10.1 0.0 10.1