

Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 14

Number 162

August 2009

Franky Dubois Poelkapellestraat 39 langemark 8920

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Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

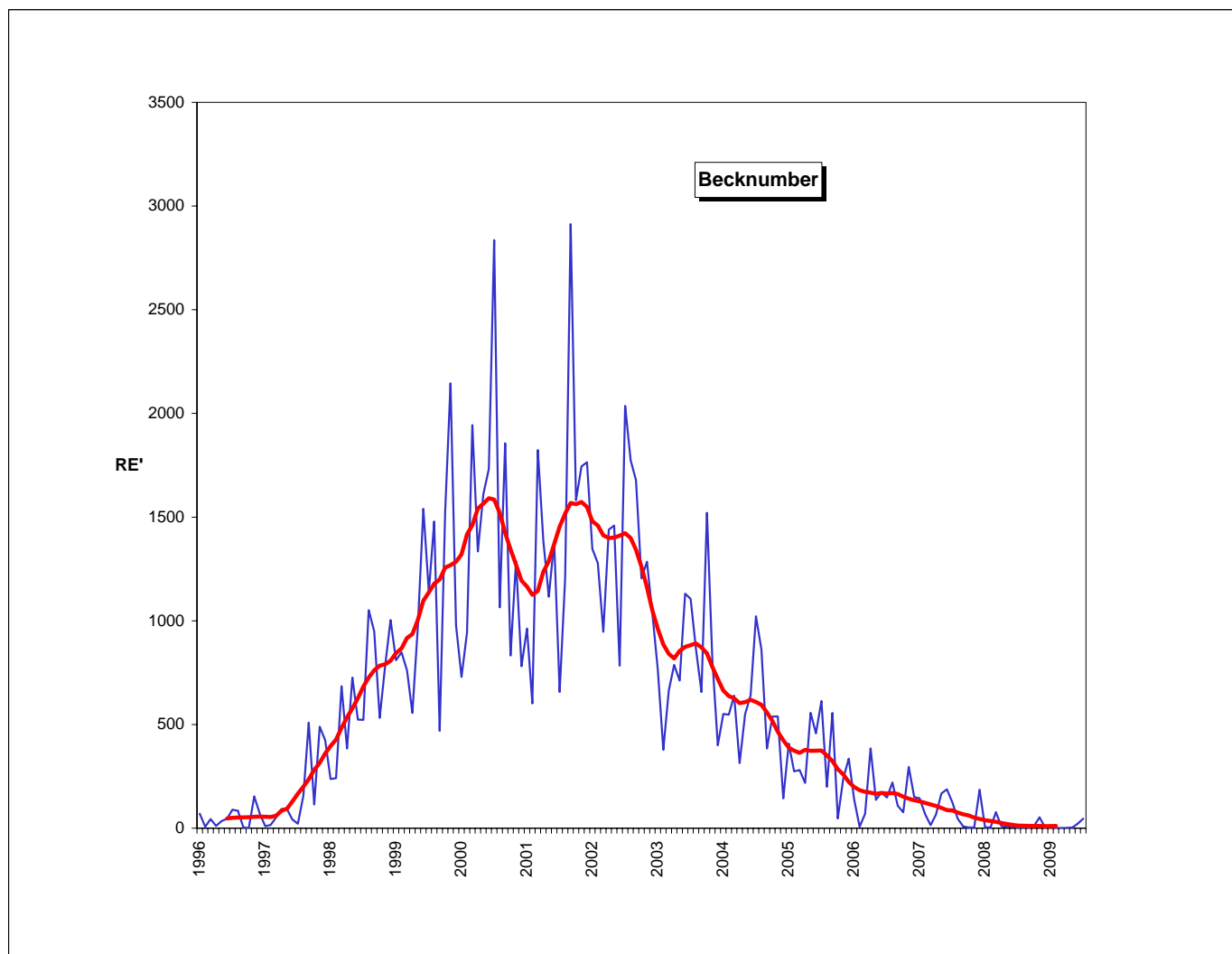
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



Mean of Augustus observations

Groups :	N	0,03	Wolfnumb N	0,1	Beck :	0,1
	S	0,00	S	0	CV	0,03
	N+S	0,03	N+S	0,1		
618 observations	31 observers					

Sunspotnumbers VVS Belgium

Month: August 2009

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	0	0	0	0	0	0	0	20
2	0	0	0	0	0	0	0	0	10
3	0	0	0	0	0	0	0	0	23
4	0	0	0	0	0	0	0	0	23
5	0	0	0	0	0	0	0	0	22
6	0	0	0	0	0	0	0	0	23
7	0	0	0	0	0	0	0	0	16
8	0	0	0	0	0	0	0	0	18
9	0	0	0	0	0	0	0	0	18
10	0	0	0	0	0	0	0	0	24
11	0	0	0	0	0	0	0	0	15
12	0	0	0	0	0	0	0	0	14
13	0	0	0	0	0	0	0	0	16
14	0	0	0	0	0	0	0	0	22
15	0	0	0	0	0	0	0	0	25
16	0	0	0	0	0	0	0	0	21
17	0	0	0	0	0	0	0	0	22
18	0	0	0	0	0	0	0	0	24
19	0	0	0	0	0	0	0	0	25
20	0	0	0	0	0	0	0	0	17
21	0	0	0	0	0	0	0	0	19
22	0	0	0	0	0	0	0	0	18
23	0	0	0	0	0	0	0	0	22
24	0	0	0	0	0	0	0	0	17
25	0	0	0	0	0	0	0	0	14
26	0	0	0	0	0	0	0	0	21
27	0	0	0	0	0	0	0	0	22
28	0	0	0	0	0	0	0	0	21
29	0	0	0	0	0	0	0	0	24
30	0	0	0	0	0	0	0	0	22
31	1	0	1	4,4	0	4,4	4	1	20
	0,03	0,00	0,03	0,1	0,0	0,1	0,1	0,03	618

Monthly mean: 0,1 Covering: 31/31 Spotless days: 30
 Observations: 618 Number of observers: 31

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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 Belgium
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Observers:

De Ceuninck ; Janssens ; Publ obs Mira ; Bourgeois ; R.Dezeure ; F.Feys
 De Backer; Dubois ; Gysel ; Kleber ; Deman ; Taillieu ; Carels ; Dewaele
 Meeus ; Steen ; KSB ; Gabriel ; Claeyns ; Thooris ; J.Bonse ; P.De Reu
 Claes ; Verboven ; Van Loo ; Son ; Coeckelberghs ; Gadyne ; Dekelver
 S.Dufoer ; G.Gubbels ; J Bavais ; A. De Kerchove ; J.Bruyland ; Van Hessche

Prominence number Rp

Belgian solar observers

Month: August 2009

Day	Q	Wedel		H	e	Rp	el. Obs	Stdev	OBS
1	3,8	1,9		2,8	5,8	33,8	2	12,3	6
2	2,8	2		1,5	1,5	16,5	1	7,8	3
3	3,4	2,2		2,3	3	26		10,3	7
4	3,6	2,2		5,8	9,2	67,2	3	14,3	8
5	4	1,7		5	7,5	57,5		11,6	4
6	4	2		5,4	9,2	63,2	2	10,3	7
7	3,3	2		2,7	5,3	32,3		7,9	3
8	3,3	2		4,3	7,3	50,3		5,5	3
9	3,2	2,2		3	4,7	34,7	1	13,9	4
10	3,5	1,9		3,6	6,3	42,3		14,7	8
11	3	2		2,7	2,7	29,7		12,7	3
12	2,7	2		3	5	35	1	12,5	4
13	2,6	2,3		3,8	4,8	42,8		11,3	4
14	3,6	2,1		2	2,6	22,6		12,3	8
15	3,3	2,1		2	3,8	23,8	2	11,5	8
16	3,7	2,3		2,2	2,3	24,3		10,8	6
17	3,6	2		2,8	5,3	33,3		9,8	4
18	3,7	2		2,4	3	27	3	13,6	8
19	3,5	1,8		5,1	7,1	58,1	1	13,3	8
20	3,1	1,6		2,8	3,6	31,6		10,1	5
21	2,8	2		3	4,3	34,3	1	10,6	4
22	2,9	2,2		5	8,3	58,3		9,2	6
23	3,3	1,6		4,6	10,9	56,9	1	11,7	9
24	3,1	1,7		3,7	6,3	43,3	2	15,1	9
25	2,7	2,2		4	5,7	45,7	2	11,4	5
26	3,1	1,9		2,8	4,3	32,3		9	6
27	3,5	1,9		2,6	6,8	32,8	2	8,5	7
28	2,9	2		3,4	6,1	40,1		9,6	7
29	3	1,9		4,8	9,3	57,3	1	11,7	10
30	3,3	1,7		4,9	10,9	59,9	1	11,1	9
31	3	1,8		4,7	7,8	54,8	2	8,6	8
	3,27	1,97		3,5	5,8	40,9	28	11,1	191

Monthly mean: **40,9** Covering: **31/31**
Observations: **191** Number of observers: **12**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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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 : $H \cdot 10^e$

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

Different Relative Sunspotnumbers

Month : August 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	D.Van Hessche	R.verboven	S.Dufoer	Mean	R. Verboven	G.Gubbels	F.Dubois	P.J. Dekelver	O.Steen	J.Carels	F.Feys	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	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	0	0	0,0	0	0	0	0	0,0
3	0	0	0	0	0	1	0	0	0	0	0	0,1	0	0	0	1	0	0	0	0,2	0	0	0	1	0,3	0	0	0	1	0,3
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	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	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	0	0	0,0	0	0	0	0	0,0	0	0	0	0	0,0
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
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
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
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
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
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
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0	0	0,0	0	0	0	0	0,0
31	0	2	0	2	1	0	0	0	1	2	1,0	1,0	2	0	0	2	2	3	0	1,2	0	3	0	1	1,0	0	3	0	1	1,0
##	0,0	0,1	0,0	0,1	0,0	0,1	0,0	0,0	0,0	0,0	0,1	0,0	0,1	0,0	0,0	0,2	0,1	0,1	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,1	0,0	0,1	0,0

Becknumber

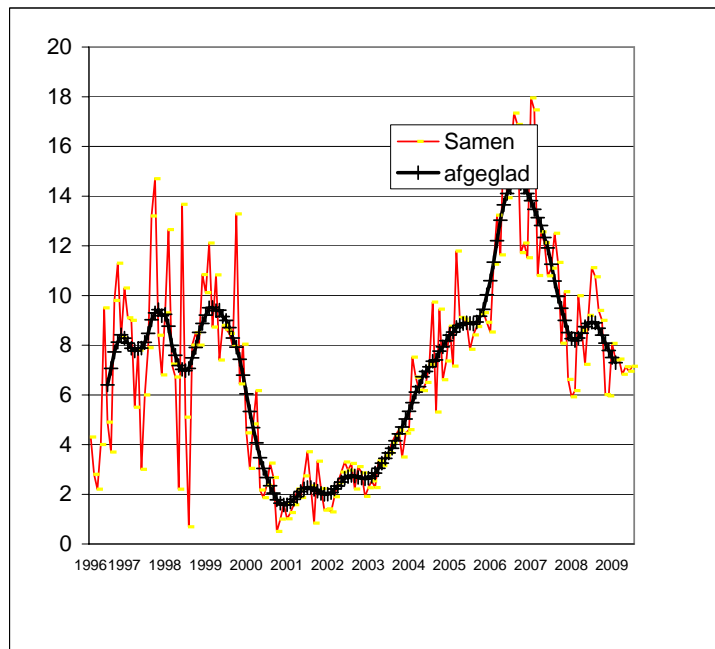
Date	F.Dubois	O.Steen	L.Meeus	P.J. Dekelver	J.Carels	G.Gubbels	S.Dufoer	D.Van Hessche	R. Verboven	F.Feys	A.T.Son	J.Bourgeois	H.Coeckelberghs	De Backer	Pbl Obs Mitra	J.Claes	Mean	Date	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	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	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	22
23	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	24
25	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	26
27	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	28
29	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	30
31	0	8	0	4	12	0	8	12	0	0	0	0	0	0	0	0	0	4	31
	0	0,3	0,0	0,4	0,4	0	0	0	1	0	0	0	#####	0	0,0	0,0	#####	###	0,1

Belgian Solar Observers

Polar Faculae

Month: August 2009

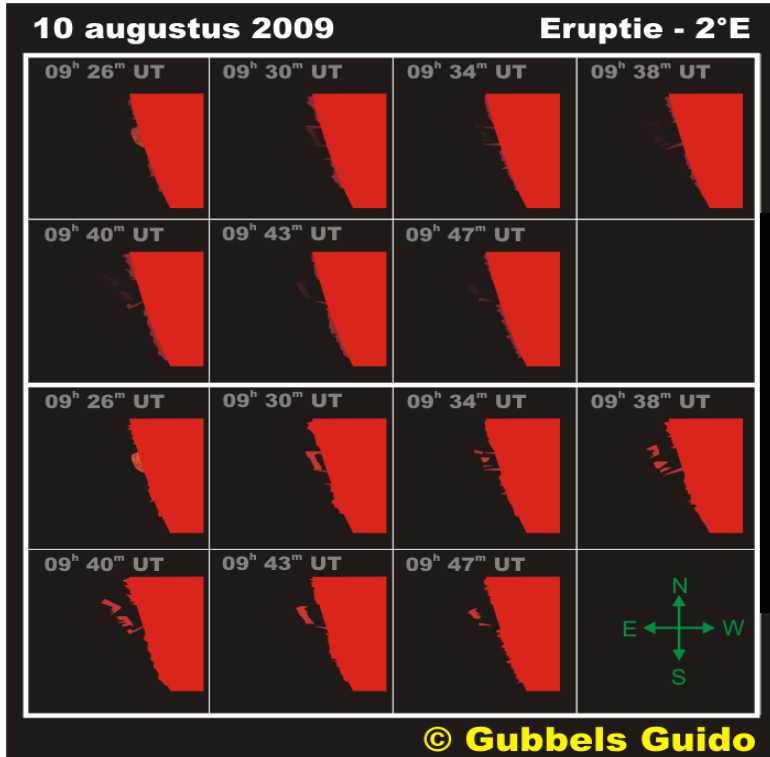
Date	Dubois			Steen			Deman			Gabriel			Carels			Janssen			T.Spaninks			G.Gubbels				
	125mm F20			102mm F15			150mmF15			250 mm F20			150mm F8			200mmF10			127mm F15							
	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South
1	5	2	3	5	1	3,5										4	0	3,5				5	2	3,5		
2	4	2	3	6	3	3																				
3	6	5	4	5	3	3,5										3	3	3,0				4	2	2		
4				6	3	3,5										6	2	4,0				6	4	4		
5				6	4	3,5										2	0	3,5				5	3	2,5		
6	4	2	4	8	2	4,0										5	1	4,0				5	3	3		
7	9	2	3																							
8																										
9																										
10	9	4	4	6	4	4,0	9	5	3						2	0	3,0	0	0	4	5	2	4			
11				2	3	3,5												0	0	4						
12	7	4	4																							
13				5	3	3,5																4	3	4		
14	4	1	3	4	2	3,5	9	4	3						3	0	4,0				6	2	3,5			
15	9	2	4	7	4	3,0	7	2	3						1	1	3,0				6	2	4			
16	8	1	3																			4	1	3,5		
17							13	2	4																	
18	9	4	4	8	5	3,5	13	4	5						5	2	5				5	2	4			
19	6	1	4	4	2	3,0									2	0	4				5	2	3,5			
20															3	0	3,5									
21	1	2	4																			4	2	2,5		
22							11	6	4						0	0	3,0	2	1	4	6	3	4			
23	2	4	3	4	1	3,0	10	4	3						2	1	3,5	0	0	4	5	1	3,5			
24	7	5	3	4	3	3,0	15	3	3						3	0	4,0	1	0	4	4	2	3,5			
25																										
26				6	3	3,0									7	1	4,0	1	0	4	5	3	3,5			
27				5	1	4									5	3	4,0				5	2	3			
28				4	1	3									5	2	3,0	0	1	4						
29															6	0	3,0	0	0	4	6	3	3,5			
30	5	2	4	3	1	3,0							4	1	3	9	3	3,0	0	0	4	8	2	3		
31	4	1	3	4	5	3,5	11	5	3									0	0	4	7	2	3			
	5,82	2,59		5,10	2,70		10,9	3,9		#####	#####		4,00	1,00		3,84	1,00		0,40	0,20		5,24	2,29			



Sunspot activity from organisations all over de world

Month : **July 2009**

Organisation	Wolf Total	Wolf North	Wolf South	Groups	Faculae number	CV	Beck	Pettis index	Intersol	Area	prom MDF	prom Rp	Filam & plages	Radio flux	Naked eye	Polar Faculae
NOAA SWO	5,0													68,3		
SIDC	3,5	0,3	3,2													
Kanzelhöhe	3,43															
G.F.O.E.S France	4,4	0	4,4												0	
BSO Belgium	5,3	0,2	5,2	0,32		5,80	45,8	5,97	3,03			39,9				6,95
S.O.G.S.A.S. Switzerland	4,9			0,30												
BAA	4,48			0,25							1,53		0,11			
GsRSI Italy	6,4											41,5				
CV Helios Network						5,28										
AAVSO	3,6															
Sonne Germany Preliminary																
O.A.A. Japan	3,9	0	3,9													
Solar Observer Society TOS Poland	6,48				0,48	5,61				0,45						



SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 451 from 2009 Aug 17

SOLAR ACTIVITY

Solar activity was quiet throughout the week as no sunspot group was present on the solar disc.

GEOMAGNETIC ACTIVITY

In the beginning of the week the Earth was inside the slow solar wind flow and the geomagnetic conditions were quiet. On August 17 ACE detected the arrival of an interplanetary sector boundary, followed by the interaction region between the slow and fast solar wind streams. The fast stream arrived in the morning of August 20. It was originating from a low-latitude coronal hole in the northern hemisphere. K index reached 4 as measured by IZMIRAN and NOAA on August 19 and 20, and by Dourbes on August 21. On August 23 the solar wind speed started to decrease and the Earth entered the slow solar wind flow, resulting in quiet geomagnetic conditions.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 452 from 2009 Aug 24

SOLAR ACTIVITY

Solar activity was extremely quiet during the whole week. No sunspots were visible on the solar disk.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was low during most of the week. The solar wind speed was below 400 km/s until August 30. At that day we reached minor storm conditions with a K-index of 5 at Dourbes. For a short period, the earth was under the influence of a solar wind stream with slightly elevated speed, originating from an extension of the northern coronal hole.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 453 from 2009 Aug 31

SOLAR ACTIVITY

The low level of solar activity persisted during the week. An active region, NOAA AR 1025 appeared on Aug. 31st but did not trigger any significant activity.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was very low during the whole week.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 454 from 2009 Sep 07

SOLAR ACTIVITY

There were no sunspots this week. The X-ray flux measured by GOES was beneath measurement level, except for one B-level spike on Sep 18. The 10cm radio flux did not vary and stayed the whole week 69 sfu.

GEOMAGNETIC ACTIVITY

There was no geomagnetic activity. Maybe worth mentioning was the arrival of a solar wind with a slightly elevated speed of 350 to 400 km/s. This wind was associated with a faint northern coronal hole. The geomagnetic conditions were unsettled for one period on Sep 13.

SIDC Weekly bulletin on Solar and Geomagnetic activity
WEEK 455 from 2009 Sep 14

SOLAR ACTIVITY

The X-ray flux measured by GOES was beneath the measurement level until Nov 20.

An active region visible by STEREO-B in EUV caused an increase of the X-ray flux to the A-level. At the moment of the increase, the active region was still behind the east limb.

Images by SOHO/EIT show two extensions of the north polar coronal hole. These coronal holes are faint.

GEOMAGNETIC ACTIVITY

We were in the aftermath of the influence of an extension of the north polar coronal hole. The solar wind speed was from Sep 14 above 400 km/s. The magnetic conditions in the solar wind were however such that only unsettled conditions occurred on Sep 13 (one period), 14 (one period) and 17 (two periods). Another more dense region with a relative strong magnetic field (10nT) in the solar wind flow passed the L1 point on Sep 20. This passage caused unsettled conditions. The solar wind parameters show that this structure can be associated with a coronal hole.
