

# Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 14

Number 161

July 2009

Franky Dubois Poelkappellestraat 39 langemark 8920

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## Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

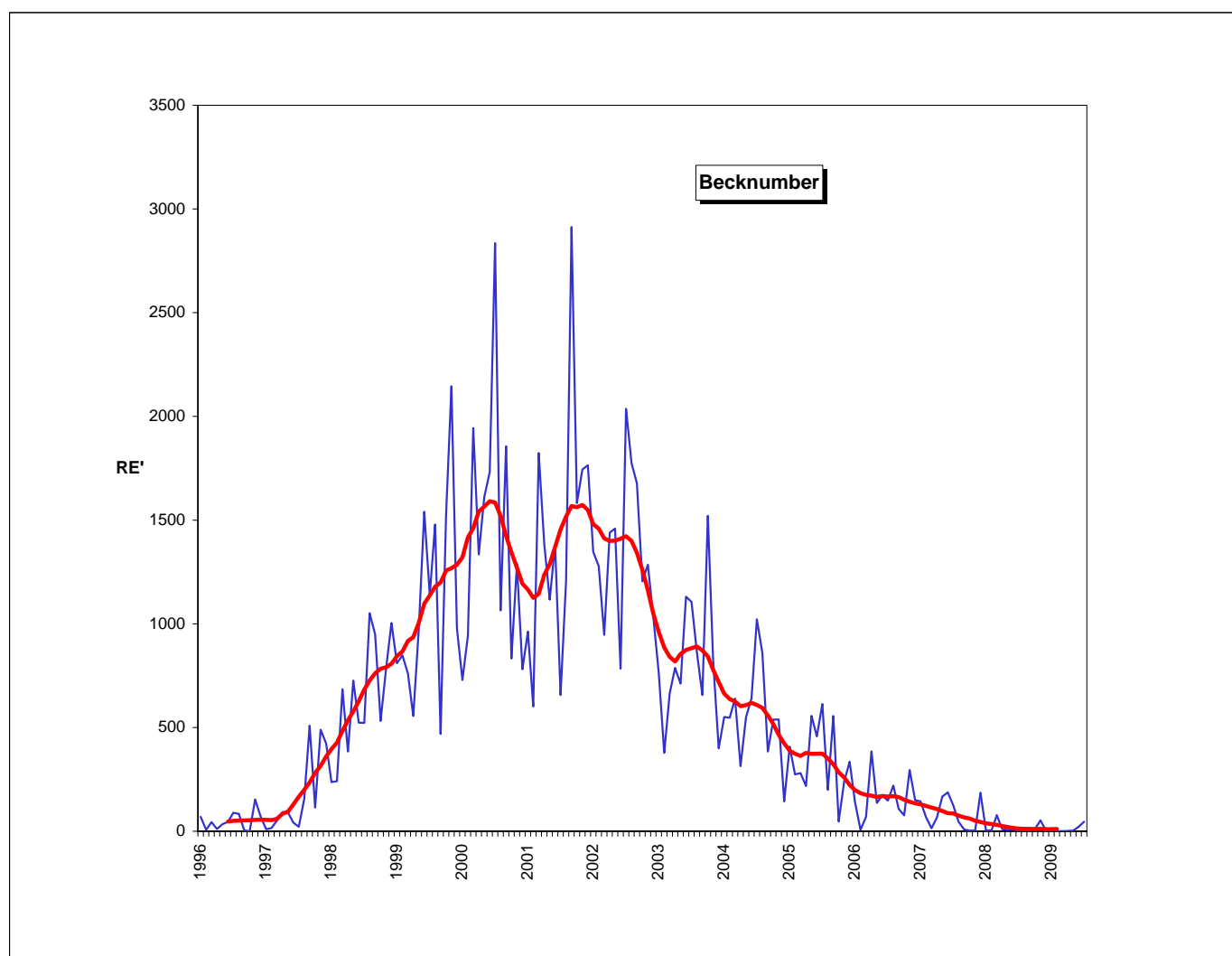
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



### Mean of July observations

<u>Groups</u> :	N	0,03	<u>Wolfnumb</u> N	0,2	<u>Beck</u> :	45,8
	S	0,29	S	5,2	<u>CV</u>	5,8
	N+S	0,32	N+S	5,3		
508 observations	31 observers					



# Sunspotnumbers VVS Belgium

Month: 'july 2009

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	1	1	0	4	4	3	1	21
2	0	0	0	0	0	0	0	0	18
3	0	0	0	0	0	0	0	0	20
4	0	1	1	0	26,1	26,1	212	16	21
5	0	1	1	0	28,2	28,2	341	30	23
6	0	1	1	0	25,1	25,1	318	30	22
7	0	1	1	0	20,4	20,4	165	24	18
8	0	1	1	0	20,1	20,1	186	34	12
9	0	1	1	0	15,3	15,3	145	22	18
10	0	1	1	0	14,1	14,1	44	21	11
11	0	0	0	0	0	0	0	0	10
12	0	0	0	0	0	0	0	0	18
13	0	0	0	0	0	0	0	0	17
14	0	0	0	0	0	0	0	0	16
15	0	0	0	0	0	0	0	0	18
16	0	0	0	0	0	0	0	0	12
17	0	0	0	0	0	0	0	0	14
18	0	0	0	0	0	0	0	0	12
19	0	0	0	0	0	0	0	0	11
20	0	0	0	0	0	0	0	0	11
21	0	0	0	0	0	0	0	0	13
22	0	0	0	0	0	0	0	0	13
23	0	1	1	0	6,5	6,5	4	1	11
24	0	0	0	0	0	0	0	0	12
25	0	0	0	0	0	0	0	0	17
26	0	0	0	0	0	0	0	0	20
27	0	0	0	0	0	0	0	0	20
28	0	0	0	0	0	0	0	0	22
29	0	0	0	0	0	0	0	0	19
30	1	0	1	5	0	5	3	1	21
31	0	0	0	0	0	0	0	0	17
	<b>0,03</b>	<b>0,29</b>	<b>0,32</b>	<b>0,2</b>	<b>5,2</b>	<b>5,3</b>	<b>45,8</b>	<b>5,8</b>	<b>508</b>

Monthly mean: **5,3**    Covering: **31/31**    Spotless days: **21**  
 Observations: **508**    Number of observers: **31**

V.V.S. BELGIUM SOLAR SECTION    FRANKY DUBOIS

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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 ; Claeys ; Thooris ; J.Bonse ; P.De Reu  
 Claes ; Verboven ; Van Loo ; Son ; Coeckelberghs ; Gadyne ; Dekelver



# Prominence number Rp

## Belgian solar observers

Month: July 2009

Day	Q	Wedel		H	e	Rp	el. Obs	Stdev	OBS
1	3,3	2		3,5	4,3	39,3		10,2	8
2	3,9	1,8		3,5	5,4	40,4		10,8	8
3	3,3	1,7		3,2	5,5	37,5		9,1	6
4	3	2		3,3	5,3	38,3	3	10,3	10
5	3,9	1,6		3,4	5,4	39,4	2	9	7
6	3,4	1,9		3,6	5,3	41,3	2	7,7	9
7	3,5	1,7		7	10	80	1	1,7	4
8	3,8	1,5		3	3,5	33,5	1	0,7	3
9	3,4	1,5		4,3	7,3	50,3	1	9,6	5
10	3,3	1,8		3,7	4,3	41,3		7	3
11	3,2	2		4	5,7	45,7		11	3
12	3,2	2		3	4,7	34,7	2	0,6	5
13	3,5	2		2,5	3,5	28,5	2	7,8	4
14	3,7	1,3		2,7	3,3	30,3	2	12,2	5
15	3,6	1,4		3,3	5,7	38,7		9,5	6
16	3	2		2,7	4	31	1	6,7	4
17	2,8	2,2		3,8	6	44	1	9,9	6
18	3	1,8		4,8	8,3	56,3	1	6,4	5
19	3,2	1,6		4,4	6	50	1	10,7	6
20	3,8	1,3		3	3,5	33,5	1	0,7	3
21	3,3	2,3		3	4,5	34,5	1	2,1	3
22	3,1	1,9		3,8	4	42	1	10,6	5
23	3,3	2		4	4,5	44,5	1	0,7	3
24	3,5	1,8		2,5	4	29	1	8,5	3
25	3,4	1,5		5,3	7,8	60,8	1	12,5	5
26	2,7	2,5		2,3	3,3	26,3	1	6,4	4
27	3,6	1,8		2,1	3,6	24,6		4,2	7
28	2,9	2		2,2	4,5	26,5		8,7	6
29	2,9	2,4		2,8	3,4	31,4		9,4	5
30	3,2	1,8		4,4	5,2	49,2		10,2	5
31	2,8	2,4		3,2	3,6	35,6	1	9,7	6
	<b>3,31</b>	<b>1,85</b>		<b>3,5</b>	<b>5,0</b>	<b>39,9</b>	<b>28</b>	<b>7,6</b>	<b>162</b>

Monthly mean: **39,9** Covering: **31/31**  
Observations: **162** Number of observers: **12**

### 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/>

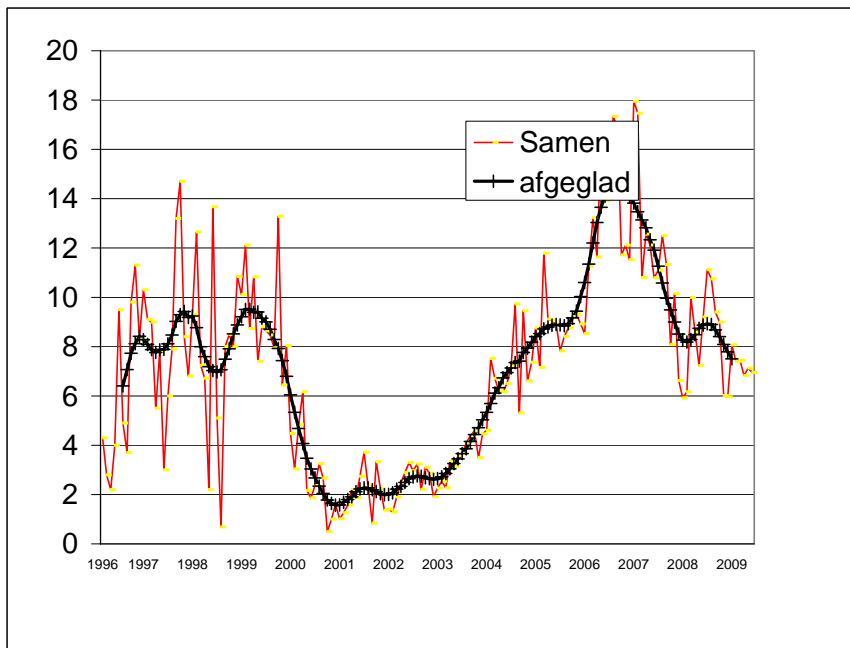


# Belgian Solar Observers

## Polar Faculae

Month: July 2009

Date	Dubois			Steen			Deman			Gabriel			Carels			Janssen			T.Spaninks			G.Gubbels			F.Feys						
	125mm F20			102mm F15			150mmF15			250 mm F20			150mm F8			200mmF10			127mm F15			114mm F7,6									
	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	Q	North	South	Q	
1	2	8	4	4	4	4,0				9	10	4							0	0	4	3	2	2,5	27	41	5				
2	5	5	4	4	4	4	7	6	5	7	8	5							0	0	5	3	3	2	27	18	3				
3				2	4	3,5				9	9	4							0	0	5	3	1	3,5	19	23	3				
4	3	7	4							11	9	4				0	0	3	0	0	4	2	0	3,5	41	28	5				
5										8	6	5				3	5	4	0	0	5	2	1	3,5	17	16	5				
6	3	4	3	6	5	3,5	14	9	4	7	8	4							0	0	4	2	0	4	21	30	5				
7				5	3	3,5				9	9	4							0	0	4	4	2	4	15	43	5				
8	3	5	4							7	8	3																			
9	3	6	4	5	1	3,5	9	3	3	7	6	3													52	24	5				
10	6	5	3	3	2	3,5	9	4	4															3	1	3,5	28	33	5		
11																															
12				4	2	3,5				10	5	3							2	0	4				32	31	5				
13	4	5	3							9	6	3							0	0	4	3	1	4,5	35	22	4				
14	1	0	3							9	6	4							0	0	4				27	25	3				
15				6	3	3,5																									
16	1	5	3	2	0	3,5													4	1	3	0	0	4	3	1	4	24	38	3	
17																															
18				5	3	3,5																									
19	9	5	4	6	2	3,5													3	2	3	1	0	4				38	29	5	
20	4	5	4	8	5	3,5																									
21																															
22				7	3	3,5													8	5	4	0	0	4							
23																															
24	2	0	3	8	5	3,5																									
25	11	7	4	9	4	3,5	13	4	3	11	5	4							1	0	4							15	15	4	
26	8	5	4							14	6	4							4	0	4								26	28	5
27	4	2	3	6	3	3,5	8	3	5	12	6	4				2	2	3			3	4	2	2,5	24	30	5				
28	6	1	3	5	3	3,5	7	2	3	10	4	4							0	0	3	4	0	3	17	11	3				
29	7	2	4	5	2	3,5	8	1	3	11	6	4							1	0	4							12	16	3	
30	9	4	4	8	1	3,5	8	3	3	12	7	4																12	16	4	
31	9	2	3	3	2	3,5				10	6	4													6	3	4	17	16	3	
	5,00	4,15		5,32	2,91		9,2	3,9		9,6	6,8		#####	#####		3,29	2,57		0,39	0,09		3,23	1,31		24,93	24,25					



# Sunspot activity from organisations all over de world

Month :

**June 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	6,6													68,6		
SIDC	2,6	1,6	1													
Kanzelhöhe	4,0															
G.F.O.E.S France	4,7	2,8	1,9												0	
BSO Belgium	5,6	3,4	2,2	0,47		2,20	21,6	3,8	2,6			37,3				7,13
S.O.G.S.A.S. Switzerland	4,1			0,30												
BAA	4,03			0,26							1,88					
GsRSI Italy	5,8											47,8				
CV Helios Network						2,36										
AAVSO	3,2															
Sonne Germany Preliminary	3,8	2,5	1,4												0	
O.A.A. Japan	4,4	2,6	1,8													
Solar Observer Society TOS Poland	6,37				0,6	3,8										

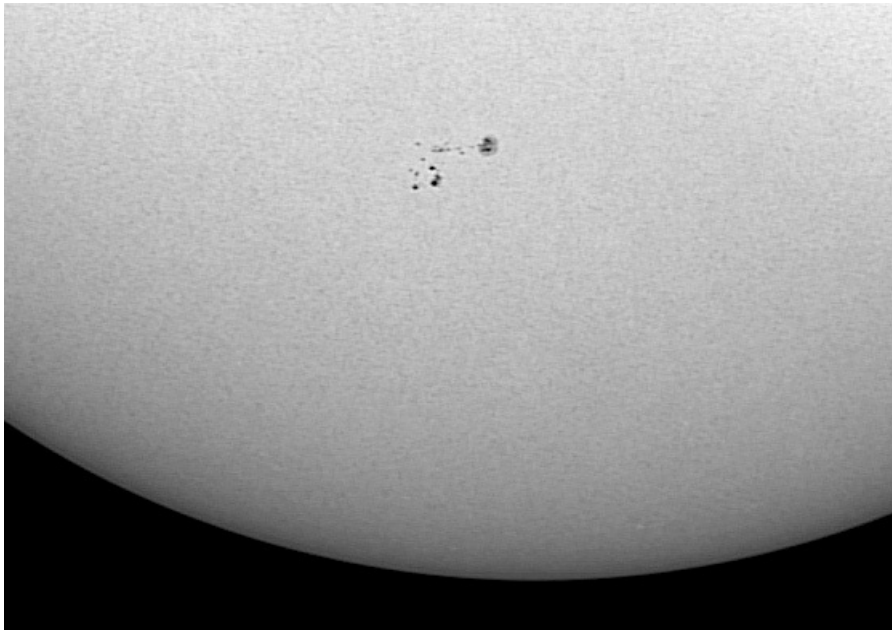
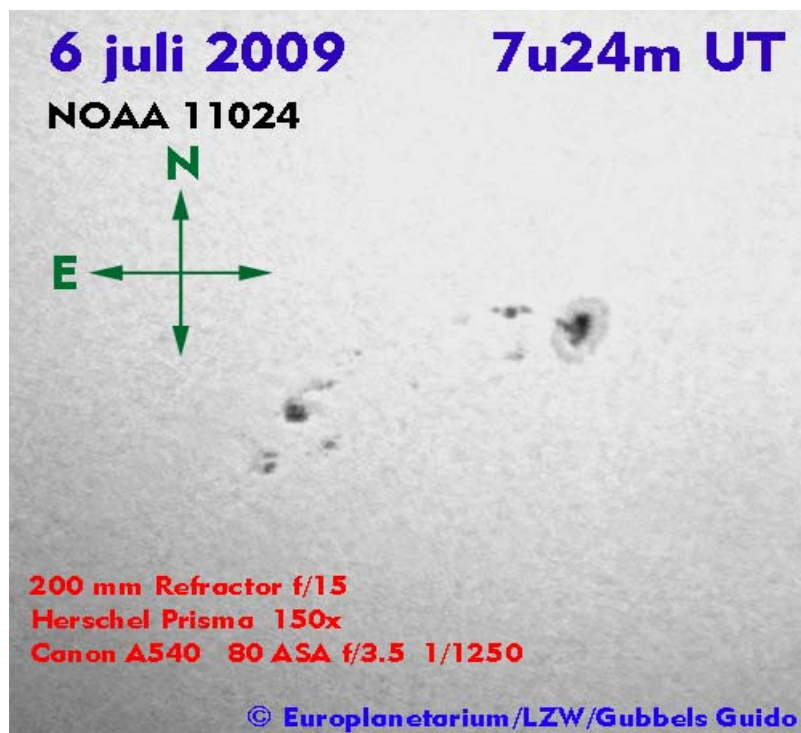


Foto Joel Bavais







**Bijeenkomst 30mei 2009**



SIDC-NEWS: DEFINITIVE INTERNATIONAL AND HEMISPHERIC SUNSPOT #

# NUMBERS from the SIDC (RWC-Belgium) #

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SIDC DEFINITIVE INTERNATIONAL AND HEMISPHERIC SUNSPOT NUMBERS FOR 2009

JANUARY  
FEBRUARY MARCH

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	8	0	8
7	0	0	0	0	0	0	8	0	8
8	0	0	0	0	0	0	0	0	0
9	7	7	0	0	0	0	0	0	0
10	9	9	0	0	0	0	0	0	0
11	10	10	0	8	0	8	0	0	0
12	8	8	0	7	0	7	0	0	0
13	0	0	0	7	0	7	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	0	0	0	0	0	0	0	0	0
19	7	0	7	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	8	8	0	0	0	0
25	0	0	0	8	8	0	0	0	0
26	0	0	0	0	0	0	7	7	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
30	0	0	0				0	0	0
31	0	0	0				0	0	0
MEAN :	1.3	1.1	0.2	1.4	0.6	0.8	0.7	0.2	0.5

SIDC Weekly bulletin on Solar and Geomagnetic WEEK 448 from 2009 Jul 27

SOLAR ACTIVITY

There was no noticeable flaring activity this week. Only on Jul 30 a northern sunspot group was seen: Catania 16. A northern coronal hole at high latitude passed the central meridian on Jul 27.

GEOMAGNETIC ACTIVITY

The co-rotating interaction region associated with the coronal hole mentioned in the section -solar activity- arrived on Jul 30. The solar wind speed increased from 340 km/s to 420 km/s. The typical speed profile

of a coronal hole was visible only for 2 days: Jul 31 and Aug 01. The north-south component was mainly positive.

There were no geomagnetic disturbances.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 449 from 2009 Aug 03

SOLAR ACTIVITY

The estimated international sunspot number was zero for the complete week, the solar activity remained very low. A slow CME left the Sun on August 4 at 16:54 UT, it was not Earth-directed. A coronal hole was in Earth facing position on August 3-4.

GEOMAGNETIC ACTIVITY

On August 6 the fast solar wind from the coronal hole arrived to the Earth and produced active geomagnetic conditions. The rest of the week, quiet to unsettled conditions were measured.

SIDC Weekly bulletin on Solar and Geomagnetic activity WEEK 450 from 2009 Aug 10

SOLAR ACTIVITY

Solar activity was extremely low during the period with an estimated international sunspot number consistently at 0 and GOES X-ray background at A0.0.

GEOMAGNETIC ACTIVITY

Geomagnetic activity was very low, NOAA's estimated Kp index never got higher than Kp=2. An SIDC ALL QUIET ALERT was active for most of the week.