

# Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 13

Number 148

June 2008

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## Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

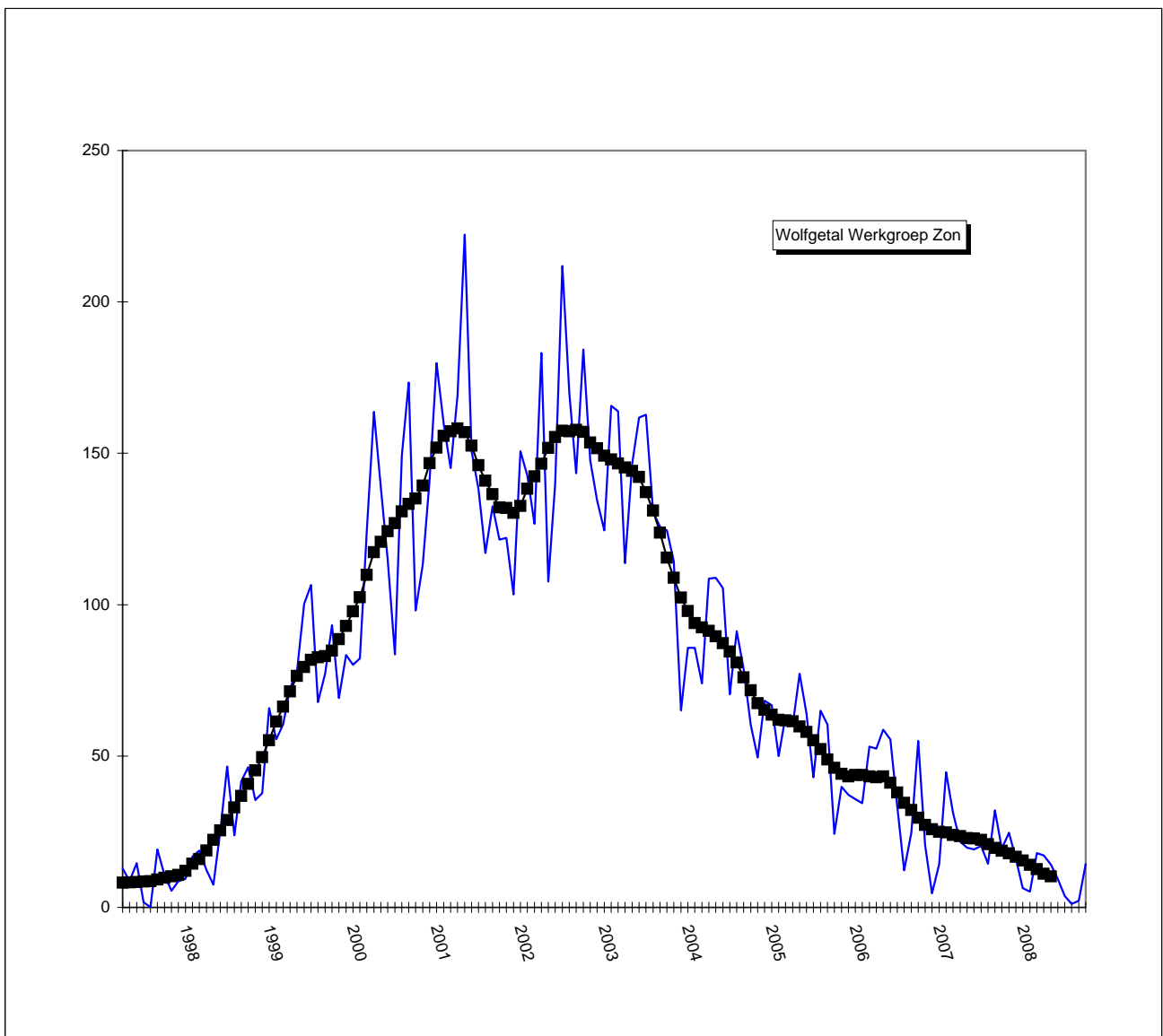
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



### Mean of June observations

Groups :	N	0,00	Wolfnumb N	0	Beck :	9,7
	S	0,52	S	4,8	CV	1,6
	N+S	0,52	N+S	4,8		
507 observations	30 observers					



# Sunspotnumbers VVS Belgium

Month: June 2008

Day	GROUPS			WOLFNUMBER			RE'	CV	OBS
	N	S	N+S	N	S	N+S			
1	0	0	0	0	0	0	0	0	18
2	0	0	0	0	0	0	0	0	13
3	0	0	0	0	0	0	0	0	17
4	0	0	0	0	0	0	0	0	9
5	0	1	1	0	6,5	6,5	6	1	4
6									
7	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	19
9	0	1	1	0	3,2	3,2	1	1	22
10	0	1	1	0	12,9	12,9	23	4	23
11	0	1	1	0	11,6	11,6	36	6	21
12	0	1	1	0	11,7	11,7	7	2	9
13	0	1	1	0	7,6	7,6	5	1	16
14	0	1	1	0	1,4	1,4	1	1	17
15	0	1	1	0	7,7	7,7	25	4	21
16	0	1	1	0	9,8	9,8	33	4	26
17	0	1	1	0	10,6	10,6	27	4	25
18	0	1	1	0	11,2	11,2	23	3	17
19	0	1	1	0	11,1	11,1	25	3	21
20	0	1	1	0	11,3	11,3	28	3	18
21	0	1	1	0	11,2	11,2	17	5	17
22	0	1	1	0	11,7	11,7	23	3	19
23	0	0	0	0	0	0	0	0	22
24	0	0	0	0	0	0	0	0	20
25	0	0	0	0	0	0	0	0	19
26	0	0	0	0	0	0	0	0	22
27	0	0	0	0	0	0	0	0	17
28	0	0	0	0	0	0	0	0	16
29	0	0	0	0	0	0	0	0	20
30	0	0	0	0	0	0	0	0	18
	0,00	0,52	0,52	0,0	4,8	4,8	9,7	1,6	507

Monthly mean: **4,8**    Covering: **29/30**    Spotless days: **14**  
 Observations: **507**    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 ; Dekelver  
 S.Dufoer ; G.Gubbels ; jeugdwerking Astrolab ; J Bavais ; A. De Kerchove

# VVS Belgian Solar Observers Prominence number Rp

Month : June 2008		asm										Lille																								
		J. Janssens					F. Dubois					E. De Ceunick					L. Meeus					J. Hamsch					G. Deman									
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							17,36	3	2	3	4	34												14u	3,5	2,5	7	10	80							
2							10,17	2,5	2	4	4	44												11u10	3,5	2	4	4	44							
3																								11u20	3,5	2	3	3	33							
4							15,03	3	2,5	3	3	33	15,30	1,50	3	1	1	11		14,15	4	3	3	4	34											
5																																				
6																																				
7																																				
8							15,29	4	2,5	4	4	44												14u	3,5	2	7	9	79							
9							7,40	4	1	4	4	44	08,45	1,50	3	4	4	44		09,15	4	1,5	3	3	33											
10							17,46	3	2	3	6	36	07,30	2,50	2,5	4	4	44																		
11							6,35	4	1	3	4	34	06,30	2,50	2,5	7	7	77																		
12							13,12	3	3	2	4	24																								
13							6,31	3	1,5	3	4	34																								
14							14,07	3	2,5	4	4	44																								
15	6:40	3,5	2	4	4	44	8,45	2,5	2	5	5	55	08,15	1,50	3	6	6	66		08,05	4	1,5	3	5	35	16u20	2,5	2,5	4	4	44					
16							6,20	3	2	4	6	46	07,30	3,00	2	4	5	45		08,15	3	2	6	6	66	11u10	3,5	2	4	4	44					
17							6,56	3	2	4	6	46	07,30	2,50	2	4	6	46		08,15	3	2	6	6	66	11u05	3,5	2	2	3	23					
18							7,05	3,5	1,5	3	3	33	07,30	2,50	3	3	4	34																		
19							7,12	2	2,5	4	7	47	11,00	2,00	3	4	4	44		14,30	3	1	2	3	23	17u45	3,5	2	5	9	59					
20							6,21	3	2,5	4	5	45																								
21	9:25	3	2,5	2	3	23	10,20	2	2,5	4	6	46																								
22							7,58	3	2	3	4	34	07,15	2,50	2,5	2	2	22							10u45	4	1,5	4	7	47						
23							6,42	3	1,5	3	4	34	07,00	2,50	2,5	2	3	23							18u30	3,5	2,5	2	2	22						
24							6,10	3	2	2	3	23	07,00	3,00	2,5	3	3	33																		
25							8,25	3	2,5	3	4	34	07,10	2,00	3	4	5	45																		
26							12,18	3	2	4	5	45	09,00	2,00	2	5	6	56		08,50	3	2,5	4	6	46	11u05	4	1,5	4	5	45					
27							8,48	4	1	4	5	45	07,00	2,00	3	4	5	45																		
28							13,02	2	2	2	2	22																								
29	7:50	3,5	2	2	3	23	9,27	2	2,5	2	3	23												14u	3,5	2,5	3	3	33							
30																									11u05	3,5	2	2	3	23						
3		3,3	2,2	2,7	3,3	30,0	25	3,0	2,0	3,4	4,4	38,0	15	2,2	2,6	3,8	4,3	42,3	6	3,5	1,9	3,5	4,5	39,5	13	3,5	2,1	3,9	5,1	44,3	10	2,9	1,5	4,9	7,2	56,2

		O. Steen					H. Coekelberghs					J. Claes					A Gabriel					R.Blondeel					G. Gubbels									
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	16,55	3	2,5	3	4	34							1230	3	2	3	4	34	11,50	4	2	3	5	35						17,59	2,5	2	3	8	38	
2	13,45	3,5	2,5	3	3	33							1130	3	2	4	6	46	11,30	4	2	6	9	69						7,39	4	1,5	5	7	57	
3	13,20	3	2	4	4	44							1000	3	2	4	5	45	8:45	3	2	5	8	58						10,20	4	1,5	6	19	79	
4	15,55	3	2,5	3	3	33																														
5	6,30	3,5	3	1	1	11																														
6																																				
7																																				
8	17,15	3,5	2,5	3	3	33													10,50	3	2	5	9	59						12,35	3	1,5	3	9	39	
9	6,45	4	2	3	3	33	15,45	3	4	1	3	13	1500	4	1	2	2	22	7:00	4	1	4	8	48						6,11	4	1	3	13	43	
10	8,55	3,5	2	3	4	34	16,25	3	4	3	6	36	1000	4	1	4	7	47	7:15	4	1	5	9	59	8,45	2	1	3	5	35	6,21	4	1	4	12	52
11	5,55	3,5	2	4	5	45							1530	3	2	5	7	57	9:15	3	2	5	7	57						16,18	3,5	1,5	6	16	76	
12	17,30	3	2	4	6	46																														
13	6,50	3,5	2,5	4	5	45							1400	3	2	3	4	34	6:30	3	2	6	7	67												
14	13,50	3	2	3	3	33													7:30	4	2	4	7	47												
15	8,40	3,5	2	4	4	44							0930	3	2	5	8	58	7:15	3	2	5	7	57												
16	7,15	4	2	4	6	46	16:37	4	4	6	10	70	0830	4	1	5	10	60	6:50	4	1	7	15	85												
17	7,05	4	2	4	6	46	16:45	3	3	3	5	35	1330	3	2	2	6	26	7:10	3	2	5	8	58	9,30	3	1	3	3	36	5,59	3,5	1	5	13	63
18	5,40	3	2	3	3	33							0800	3	2	2	4	24	6:45	4	1	4	6	46	10,30	1	3	1	1	11						
19	13,20	3,5	2	5	8	58	17:10	4	3	7	9	79	1630	4	1	5	11	61	13:20	3	2	6	9	69												
20	6,30	3,5	2	4	4	44							1330	3	2	3	7	37	7:10	4	1	6	8	68												
21	9,55	3,5	2,5	2	3	23							1230	4	2	4	10	50	7:30	4	2	5	10	60	10,00	2	2	2	2	22						
22	13,15	3,5	2,5	2	3	23													7:15	5	2	5	8	58	10,10	2	2	3	3	33						
23	6,05	3,5	2	4	5	45							0800	3	2	3	5	35	7:10	4	1	4	6	46												
24	6,10	3	2	2	3	23							0800	4	1	2	5	25	6:20	3	1	3	4	34												
25	14,05	3	2	3	4	34	15:50	3	4	7	9	79	1530	4	1	4	7	47	10:00	3	2	4	6	46												
26	16,55	3	2	3	5	35							1530	4	1	5	10	60	6:30	4	1	11	14	124												
27	8,45	3,5	2	4	5	45													7:10	3	2	8	10	90												
28	14,15	3	2	2	2	22													11:10	4	2	6	8	68												
29	15,20	3,5	2	3	4	34													7:10	3	2	4	7	47												
30	6,05	3,5	2	4	5	45							0930	4	1	5	10	60	6:40	4	2	4	6	46												
28		3,4	2,2	3,3	4,1	36,6	6	3,3	3,7	4,5	7	52,0	19	3,5	1,6	3,7	6,7	43,6	25	3,6	1,7															

# Prominence number Rp

## Belgian solar observers

Month: June 2008

Day	Q	Wedel	H	e	Rp	el. Obs	Stdev	OBS
1	3,2	2,3	3,0	4,7	34,7	1	1,8	7
2	3,3	2,3	3,8	4,7	42,7	1	8,8	7
3	3,3	2,2	3,8	4,8	42,8	1	10,1	6
4	3	2,5	3	3	33	1	0	3
5	3,5	3	1	1	11		0	1
6								
7								
8	3,4	2,3	3,8	6,3	44,3	1	11,1	6
9	3,5	1,6	3,4	5,2	39,2	1	9,8	10
10	3,4	1,8	3,5	6	41		9,1	10
11	2,8	2,2	5,8	9,3	67,3	2	11,3	6
12	3	2,5	3	5	35		15,6	2
13	3,1	2	3,4	4,6	38,6	1	6,3	6
14	3,3	2,2	3,7	4,7	41,7		7,4	3
15	2,9	2,1	4,7	6,1	53,1		7,6	9
16	3,5	1,9	4,6	8	54	1	12,3	11
17	3,1	2	3,6	6,1	42,1	2	9,1	11
18	3,3	1,9	2,8	3,8	31,8	1	8,3	7
19	3,3	1,9	5,1	9	60	1	10,5	10
20	3,2	2,2	3,7	5,3	42,3	1	4,4	4
21	2,9	2,3	2,8	4,8	32,8	2	14	7
22	3,1	2,1	3,4	5,1	39,1	1	14,1	9
23	3,2	1,8	3	4,6	34,6		8,2	9
24	3,3	1,6	2,7	4	31	1	9	7
25	3,1	2,3	3,3	4,7	37,7	1	8,8	8
26	3,1	1,9	3,9	5,9	44,9	2	9,7	8
27	3,1	1,8	4	5,4	45,4	1	8,5	6
28	2,5	2	2	2	22	1	0	3
29	3,1	2,1	2,4	4,1	28,1		10,8	7
30	3,6	1,8	4,2	6,8	48,8	1	9,7	6
	<b>3,18</b>	<b>2,09</b>	<b>3,5</b>	<b>5,2</b>	<b>40,0</b>	<b>25</b>	<b>8,4</b>	<b>189</b>

Monthly mean: **40,0** Covering: **28/30**  
 Observations: **189** 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 :  $H \cdot 10^e$

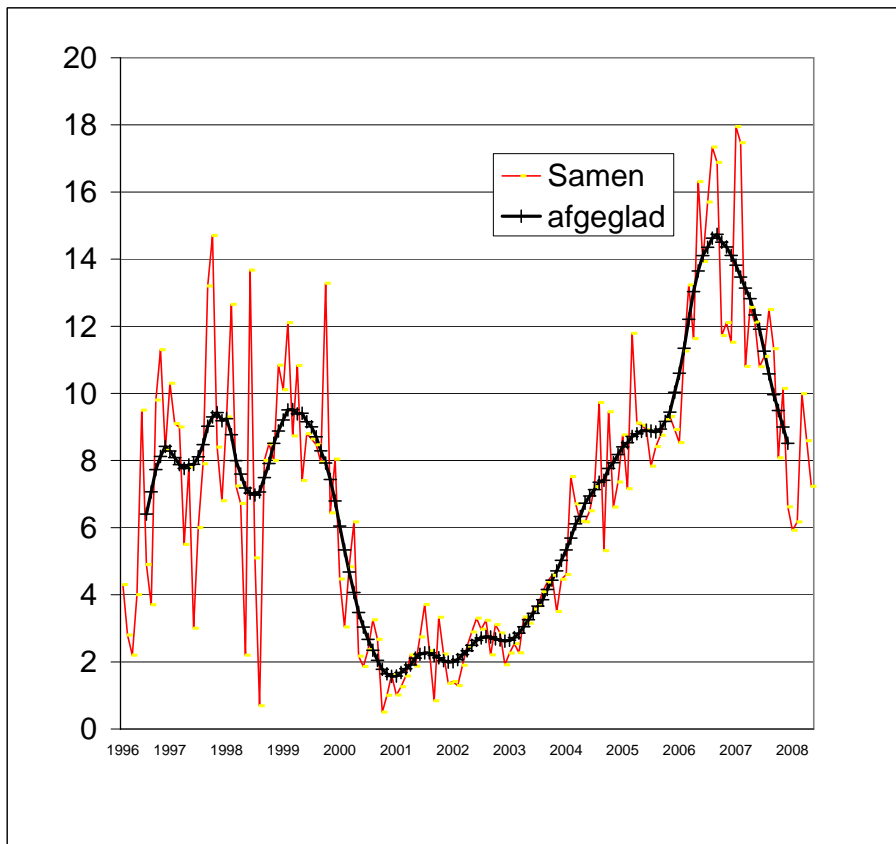
More info at : <http://members.chello.be/j.janssens/>

# Belgian Solar Observers

## Polar Faculae

Month: June 2008

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				3	3	3,0				26	11	4				0	0	3	4	8	2,5			
2										21	12	4				0	0	4	4	7	4			
3				2	3	3,0				19	11	3							5	9	4,5			
4	7	4	4																					
5																								
6																								
7																								
8				4	4	3,5				18	10	3							6	5	3			
9	5	9	3	10	7	4,0				17	9	4				3	3	4	9	4	4			
10	9	3	4	6	6	3,5	14	18	4	23	11	4	3	1		2	1	5	7	3	4			
11	9	7	4	5	6	3,5				21	8	3	4	0					7	7	3,5			
12	6	4	3																					
13	10	6	3	6	7	3,5	19	16	3	19	15	3						1	1	4	3	4	3,5	
14										24	19	4												
15				5	3	3,5				20	15	3			1	4	3,5	3	1	4	7	4	3,5	
16	7	6	3	4	4	4,0	18	13	3	21	11	4	0	0	1	2	3,0	0	0	4	4	4	4	
17	5	5	3	5	4	4,0				17	7	3			2	1	3,0	2	2	4	5	3	4	
18	6	4	4	7	5	3,5				19	8	4									4	3	3,5	
19							11	8	3	18	6	3									7	4	5	
20	5	4	4	4	1	3,5				17	8	4						0	0	4				
21				1	3	3,5				16	7	4			1	4	3,0	0	0	4				
22	6	7	3	4	4	3,5				18	8	5						0	4	4	6	3	4,5	
23	11	7	4	5	6	3,0				17	8	4					2,5	0	2	4	5	3	3	
24	8	17	4	3	5	3,0				15	11	3			3	5	3,0	0	1	3	8	2	4	
25	8	7	4	5	5	3,5				19	9	3						0	0	4	9	6	4	
26				6	7	3,5				16	8	4						0	3	4	7	6	3,5	
27				5	5	3,5				18	8	3						0	0	4				
28				4	5	3,5				19	7	4	3	2							7	4	4,5	
29				5	5	3,5				22	7	3	3	0	3	3	3,5	0	0	3	4	2	4	
30				8	4	3,5	13	10	3	26	9	4									4	2	3,5	
	7,29	6,43		4,86	4,64		15,0	13,0		19,4	9,7		2,60	0,60		1,83	3,17		0,65	1,06		5,81	4,43	





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SIDC Weekly bulletin on Solar and Geomagnetic activity  
WEEK 390 from 2008 Jun 16

#### SOLAR ACTIVITY

One active region rotated over the east limb: NOAA AR 0999 with a magnetic alpha configuration. But, no flares were measured by GOES.

The 10cm flux was very low this week: 65 or 66 sfu. A Y-shaped coronal hole (CH) was visible this week.

#### GEOMAGNETIC ACTIVITY

The Y-shaped CH induced a minor storm on Jun 14 and 15. On Jun 16, the estimated Kp-index of Boulder became once 4. Another co-rotating interaction region (CIR) arrived on Jun 19. This CIR is possibly associated with the last part of the Y-shaped CH and led to one period of active conditions on Jun 20. From Jun 21, we had quiet geomagnetic conditions.

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SIDC Weekly bulletin on Solar and Geomagnetic activity  
WEEK 391 from 2008 Jun 23

#### SOLAR ACTIVITY

Solar activity was very low during the whole week with no flaring activity at all. In addition the 10.7cm flux, uncorrected for the Sun-Earth distance variation reached very low values of 65 to 66 SFU during this period.

#### GEOMAGNETIC ACTIVITY

Geomagnetic activity was quiet to unsettled during the week. A recurrent coronal hole triggered brief unsettled conditions at Dourbes station (K=4) and at planetary levels (Kp=4) early on June 25, and on June 26.

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SIDC Weekly bulletin on Solar and Geomagnetic activity  
WEEK 392 from 2008 Jun 30

#### SOLAR ACTIVITY

Solar activity was very low during the whole week with no flaring activity at all. In addition the 10.7cm flux, uncorrected for the Sun-Earth distance variation reached very low values of 65 to 66 SFU during this period.

#### GEOMAGNETIC ACTIVITY

Geomagnetic activity was quiet to unsettled during the week, only two short periods reaching K=4 at July 5th and 7th in the afternoon. An All-quiet alert was active the whole week.

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SIDC Weekly bulletin on Solar and Geomagnetic activity  
WEEK 393 from 2008 Jul 07

#### SOLAR ACTIVITY

Solar activity was very low during the whole week with no flaring activity at all and no sunspots. The 10.7cm flux, uncorrected for the Sun-Earth distance variation, reached very low values of 65 to 66 SFU during this period.

#### GEOMAGNETIC ACTIVITY

Geomagnetic activity was quiet during most of the week,

until July 11<sup>th</sup> when activity increased due to the arrival of a fast speed solar wind stream from a recurrent coronal hole. Minor storm levels were reached on July 12th, activity remained unsettled with isolated active periods for the rest of the week.

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