

Newsletter Belgian Solar Observers

Results and news from solar observers

Volume 19

Number 218

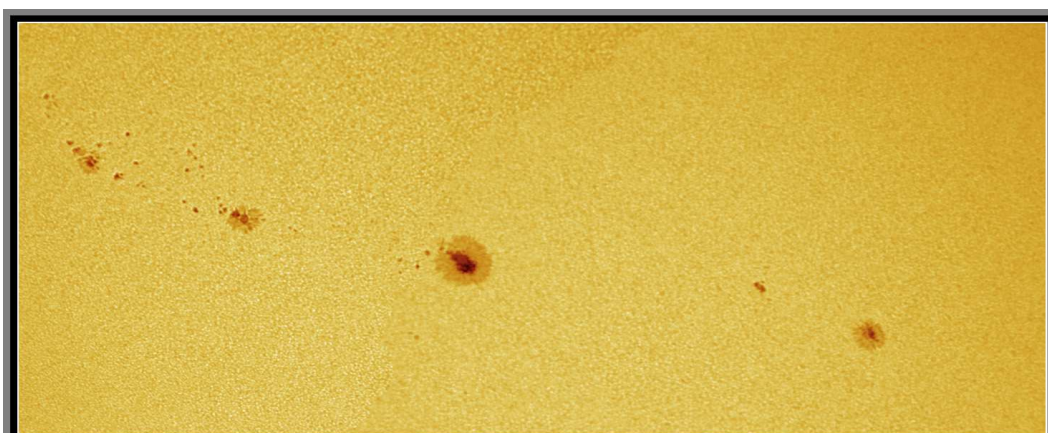
April 2014

Franky Dubois Poelkappellestraat 57 langemark 8920

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

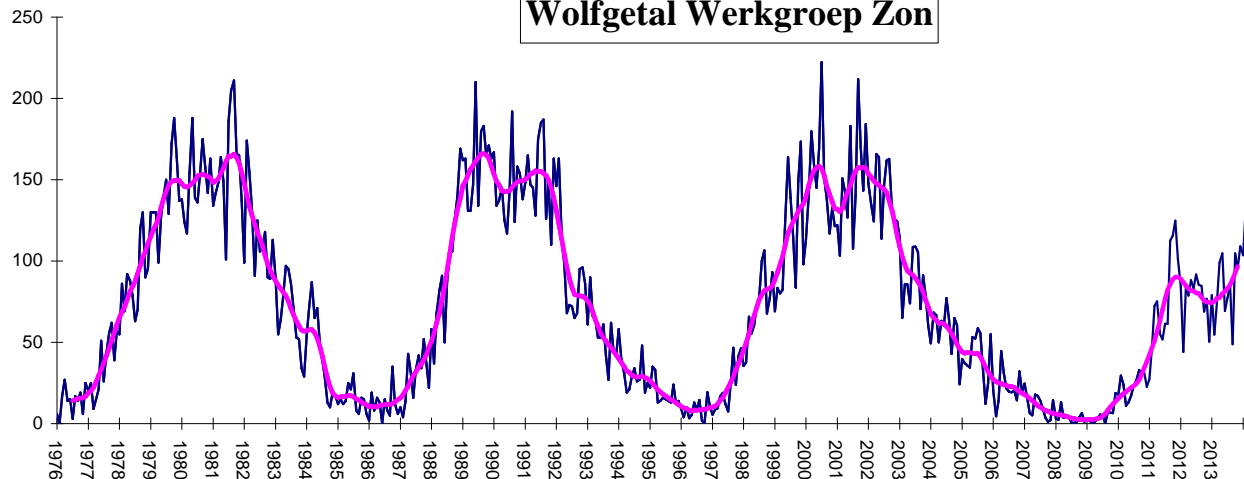
Content Newsletter

Graphics and relative number for this month, Daily Wolfnumbers by the members, Monthly sunspot report
Polar faculae and CV numbers , Photo album and drawings



Sunspots on 5 April 2014, 09h13 UT.
Orion (UK) OMC140 , Baader Astrosolar Photo & Solar Continuum filters, DMK31AU03.
Transparency good, seeing fair to bad.
Firecapture 2.3, Autostakkert!2, Registax6, Photoshop CS5, mosaic of two images.
(c) Geert Vandenbulcke, Koksijde, Belgium.

Wolfgetal Werkgroep Zon



Mean of April 2014 observations

<u>Groups</u> :	N	3,50	<u>Wolfnumb</u> N	45,3	<u>Beck</u> :	780
	S	3,67	S	61,9	<u>CV</u>	99,1
	N+S	7,17	N+S	107,2	<u>SN</u>	117,8
385 observations	25 observers				<u>IS</u>	49,8

Wolfnumbers Belgian Solar Observers

Month: April 2014

Dag	SIDC			L. Meeus			H.Coeckelberghs			Publ Obs Mira			O. Steen			F. Dubois			L. Claeys			J. Bourgeois			A.T.Son			H. De Backer			B. Thooris			J. Carels			Dag					
	R	g	f	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R						
1	72				6	22	82					7	37	107	7	42	112	5	38	88	5	38	88	5	35	85	5	37	87	4	23	63	6	39	99	1						
2	86											8	50	130	8	47	127	6	47	107	6	53	113	7	31	101	8	44	124				8	55	135	2						
3	100											9	62	152	7	53	123	6	43	103				8	89	169	7	51	121	8	52	132				3						
4	119																																				4					
5	102											8	82	162	7	73	143	5	69	119				5	53	103	7	65	135				7	23	93	7	84	154	5			
6	91											7	44	114	6	52	112	7	56	126	6	53	113				6	61	121								6					
7	86											8	30	110	8	33	113	8	31	111				5	28	78				7	33	103					7					
8	88											7	44	114	7	45	115	7	31	101				7	37	107				7	36	106	9	16	106			8				
9	71				5	6	56					8	28	108	7	33	103	6	18	78	4	14	54	7	16	86	7	22	92	4	6	46			9	32	122	9				
10	49											5	17	67	6	23	83	4	15	55	4	14	54	3	9	39	7	16	86				5	22	72			10				
11	46											4	22	62	4	13	53	4	15	55	4	26	66	4	11	51	5	15	65				4	19	59			11				
12	55											5	27	77	4	20	60	6	17	77				4	30	70	3	18	48	5	23	73				5	33	83	12			
13	60											4	30	70	4	22	62	5	22	72																4	22	62			13	
14	79											6	48	108	5	38	88																						6	44	104	14
15	109											8	67	147	9	53	143	7	52	122				6	49	109	10	66	166				9	22	112				15			
16	141											10	108	208	10	96	196	9	64	154				7	74	144	11	100	210	13	36	166	11	76	186				16			
17	150				10	47	147					11	84	194	12	85	205	9	63	153				7	53	123	13	103	233	11	36	146	11	84	194				17			
18	134				11	47	157					9	88	178	10	77	177	7	51	121																				18		
19	134											11	79	189	8	69	149	7	52	122				9	74	164	9	73	163	13	33	163							19			
20	130											11	90	200	10	91	191	6	41	101				10	70	170	11	74	184										20			
21	113											10	75	175	8	40	120	7	35	105				9	65	155				9	82	172	9	32	122	10	79	179	21			
22	93											7	44	114	8	44	124							8	56	136	6	45	105	9	55	145	8	26	106	9	49	139	22			
23	64				4	6	46	5	17	67		5	29	79	6	32	92	5	23	73	5	34	84	4	18	58	6	34	94	5	11	61	6	26	86	5	20	70	23			
24	54											4	9	49	4	9	49	4	9	49	4	9	49	3	10	40	3	3	33	5	26	76							24			
25	43											6	23	83	5	18	68	4	9	49	4	14	54	4	8	48	4	8	48	4	10	50							25			
26	34											4	9	49	4	9	49	4	9	49	4	9	49	3	10	40	3	3	33	5	10	60				4	6	46			26	
27	58											7	22	92	6	18	78	5	12	62	5	18	68	6	15	75	6	17	77	5	12	62	6	19	79					27		
28	60											5	28	78	6	22	82	5	17	67	5	30	80	5	24	74	6	35	95										28			
29	58											5	31	81	5	15	65																							29		
30	62											5	33	83	5	26	76	5	25	75	5	56	106				5	37	87	5	33	83	5	34	84					30		
#	84,7				###	###	97,6		67,0			117,3					110		92,4				90,2				91,8		118,9				98,4					108,8				

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			F.Feys			R.Verboven			KSB			D.V.Hessche			G.Gubbels			J. Claes			E. De Ceuninck			R. Dezeure			B. Taillieu			E.Neven			F. van Loo			Dag			
	R	g	f	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R	R	f	R				
1	72				6	39	99																																1	
2	86																																							2
3	100																																							3
4	119																																							4
5	102																																							5
6	91																																							6
7	86																																							7
8	88																																							8
9	71																																							9
10	49																																							10
11	46																																							11
12	55																																							12
13	60																																							13
14	79																																							14
15	109																																							15
16	141																																							16
17	150																																							17
18	134																																							18
19	134																																							19
20	130																																							20
21	113																																							21
22	93																																							22
23	64																																							23
24	54																																							24
25	43					</																																		

Sunspotnumbers VVS Belgium

Month: April 2014

Day	GROUPS			WOLFNUMBER							
	N	S	N+S	N	S	N+S	RE'	CV	SN	IS	OBS
1	3	3	6	27,7	64,5	92,2	738	91,5	115,3	44,5	17
2	4	4	8	54,6	64,4	119,0	689	88,8	111,3	58,0	13
3	5	3	8	66,7	65,1	131,8	909	89,3	132	60	12
4	4	3	7	60,0	64	124,0	968				1
5	4	3	7	57,9	70	127,6	1272	129,8	167,3	85	15
6	4	3	7	57,3	61	118,3	922	96,2	114,0	57	9
7	5	3	8	66,7	41	107,7	487	76,0	79,5	39	12
8	5	3	8	68,8	42	110,6	570	77,3	106	50	14
9	5	2	7	62,6	24,5	87,1	298	56,2	75,7	39	20
10	4	2	6	45	19	64	285	50,3	56,0	28	15
11	3	1	4	43,9	15	59	391	69,3	80,7	20	12
12	3	2	5	48,1	20,5	68,5	498	82,8	81,3	29,5	12
13	3	2	5	35,2	37	72,5	528	75,0	76,3	25,0	12
14	3	4	7	42,8	69,8	112,7	937	89,8	113,5	43,0	12
15	5	4	9	55,0	85,0	140,1	1302	143,0	186	74	16
16	6	5	11	66,8	114,7	181,5	1747	173,2	240	118	16
17	6	5	11	72,7	102,5	175,2	1523	185,8	242	108	16
18	5	5	10	73,5	93,0	166,5	1782	200,0	214,5	84,0	13
19	5	5	10	66	95,4	161,5	1484	179,6	187,5	77	18
20	4	7	11	53,0	115,4	168,4	1168	182,3	191	103	10
21	3	7	10	37,8	113,7	151,5	1060	138,7	171,7	68	18
22	2	7	9	29,3	90,6	119,8	761	101,5	127,3	51	13
23	1	5	6	12,7	61,2	73,8	391	80,5	90,0	35,0	18
24	1	4	5	11,4	60,9	72,3	340	43,8	58,7	23,5	11
25	1	3	4	13,7	42,2	55,9	301	35,0	51,5	23,0	11
26	1	3	4	12,2	35,1	47,3	175	26,5	25	8	14
27	3	3	6	36	39	75	273	57	70,7	17,0	16
28	3	3	6	35,1	43,8	78,9	414	77	76,5	26,0	12
29	2	3	5	22,4	47,6	70,0	406	86,0	79,0	18,0	6
30	2	3	5	23,4	59,3	82,8	782	93	97,333	35,0	12
	3,50	3,67	7,17	45,3	61,9	107,2	780,0	99,1	117,8	49,8	396

Monthly mean: 107,2 Covering: 30/30 Spotless days: 0
 Observations: 396 Number of observers: 24

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

Poekapellestraat 57
 B8920 Langemark
 Belgium
 e-mail : astrosun@skynet.be

Observers:

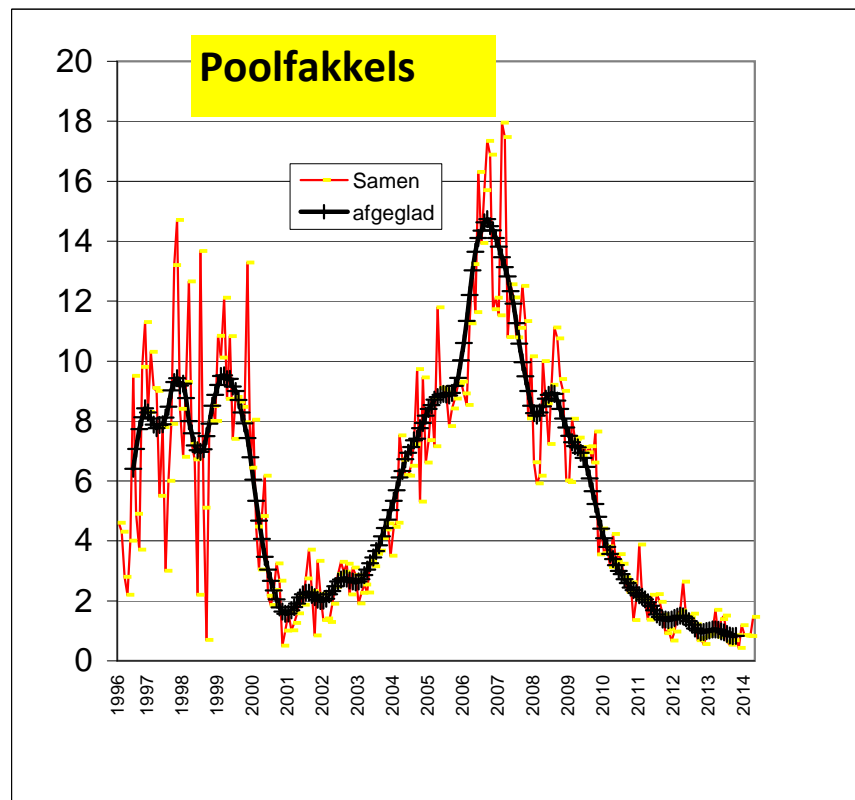
E.De Ceuninck ; J.Janssens ; Publ obs Mira ; J.Bourgeois ; R.Dezeure ; F.Feys
 H. De Backer; F.Dubois ; B.Taillieu ; J.Carels ; E.Neven ; R.De Laet ; M.Decks ; G.Verbanck
 L.Meeus ; O.Steen ; KSB ; L.Claeys ; B.Thooris ; J.Bonse ; G.Gubbels ; J.De Wit
 J.Claes ; R.Verboven ; F. Van Loo ; A.T.Son ; H.Coeckelberghs ; D.Van Hessche

Belgian Solar Observers

Polar Faculae

Month: April 2014

Date	Dubois 125mm F20			Steen 102mm F15			T.Spaninks 127mm F15			G.Gubbels 114mm F7,8			J.Carels			Janssen 200mmF10		
	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q
	1	0	2	4	1	2	4,0	0	0	4								
2	0	1	3															
3																		
4																		
5				1	0	4,0	0	0	4									
6																0	0	3
7																		
8	0	1	4															
9	0	1	4	0	2	4,0												
10	0	0	4	0	0	3,5												
11				1	0	4,0												
12				0	0	4,0	0	0	4							0	1	4
13	1	2	4	0	1	4,0												
14																		
15							0	0	4									
16	0	2	4	0	0	4,0	0	0	4	2	3	4						
17										2	3	4						
18				0	2	4,0	0	0	4									
19							0	0	3							0	0	3
20							0	0	4									
21				0	0	4,5	0	0	4							0	0	4
22				0	0	4,0												
23	0	0	4	0	0	3,0	0	0	4									
24																		
25	1	0	4															
26							0	0	4							0	0	4
27	1	1	3													0	0	3
28																		
29																		
30																		
	0,30	1,00		0,25	0,58		0,0	0,0		2,0	3,0		#####	#####		0,00	0,17	



N.O.A.A.	ZICHTBAAR		N.O.A.A.	MAX	MAX	classificatie										
Regio	van	tot	breedte	lengte	AREA	LENGTE	Macintosh									
12005	12-03-14	21-03-14	N13	264	0250	05	HSX	CHO	HHX	HSX						
12006	14-03-14	16-03-14	N12	9	0220	07	CAO	DSI								
12007	14-03-14	18-03-14	N11	247	0040	03	HAX	BXO	AXX							
12008	15-03-14	23-03-14	S11	226	0040	08	HSX	CRO	HRX	CRO	DAI	DRO	CRO			
12009	16-03-14	17-03-14	N14	284	0010	05	BXO									
12010	17-03-14	29-03-14	S15	203	0230	10	BXO	CRO	DAI	DAC	DAI	DAO	BXO			
12011	18-03-14	23-03-14	S07	277	0300	09	BXO	DAO	DAI	DHO	CAO					
12012	18-03-14	19-03-14	S09	198	0010	01	AXX									
12013	18-03-14	25-03-14	N14	186	0030	02	HSX	HAX	CAO	AXX						
12014	19-03-14	31-03-14	S14	167	0290	15	CSO	DAO	DSO	DSC	ESI	EHI	CSO			
12015	22-03-14	26-03-14	S13	231	0090	04	DAC	CAO	DAC	CAO						
12016	22-03-14	28-03-14	S28	197	0030	05	BXO	AXX	CRO							
12017	22-03-14	01-04-14	N11	142	0160	10	CAO	DAI	DSI	DAO	DAC	CAI	AXX			
12018	24-03-14	29-03-14	N03	140	0070	06	BXO	CRO	CAO	DSI	CRO	BXO				
12019	27-03-14	27-03-14	S10	212	0010	05	BXO									
12020	27-03-14	31-03-14	S13	110	0010	03	BXO									
12021	28-03-14	07-04-14	S13	76	0330	08	DAO	DAI	DKI	DKC	DKI	DSO	CSO			
12022	28-03-14	05-04-14	N17	61	0060	06	HSX	HAX	HSX	AXX						
12023	29-03-14	30-03-14	S16	189	0030	04	CAO	AXX								
12024	29-03-14	29-03-14	N17	92	0010	01	AXX									
12025	30-03-14	31-03-14	S24	117	0030	04	DRO	CRO								
12026	30-03-14	11-04-14	S11	20	0480	14	BXO	DAI	EAC	EKC	EKI	ESI	CRI	AXX		
12027	31-03-14	12-04-14	N13	14	0180	06	HSX	HAX	CAO	CSO	HAX	CSO	HSX			
12028	01-04-14	07-04-14	S08	9	0030	09	DAO	CRO	BXO	AXX						
12029	01-04-14	09-04-14	N17	30	0080	07	HRX	CAO	DAO	CSO	HAX	HRX				
12030	02-04-14	09-04-14	N11	1	0130	11	CRO	DAO	EAO	DAO	BXO					
12031	06-04-14	10-04-14	N03	30	0050	07	CRO	CAO	DAO	CAO	AXX					
12032	08-04-14	19-04-14	N12	273	0170	12	DAI	DSO	CSO	HSX	CSO	HAX				
12033	09-04-14	20-04-14	N12	264	0110	02	HSX									
12034	10-04-14	22-04-14	N05	242	0480	12	DRO	DAI	DHO	EAI	DHC	EKC	EKO	ESO		
12035	09-04-14	23-04-14	S15	222	0390	16	DAO	EAI	EHI	EKC	EAI	EAC	EKC			
12036	13-04-14	22-04-14	S18	246	0510	13	DRO	DAI	DKC	DHC	DAC	ESI	ESO			
12037	13-04-14	21-04-14	S09	242	0110	09	BXO	CAO	DSO	DAI	CSO	HAX				
12038	15-04-14	25-04-14	S11	185	0110	07	CSO	DAC	DSI	CAI	DAC	DAI	DAO	CAO		
12039	15-04-14	19-04-14	N24	220	0010	05	BXO									
12040	15-04-14	19-04-14	N15	228	0020	09	BXO	CRO								
12041	16-04-14	17-04-14	S20	262	0010	02	BXO									
12042	16-04-14	27-04-14	N18	165	0270	11	CSO	DSO	DAO	EKO	CSO	HSX	CSO	HSX		
12043	17-04-14	17-04-14	S11	235	0010	02	BXO									
12044	19-04-14	26-04-14	S19	136	0030	09	BXO	DRO	CAO	CRO	CSO					
12045	19-04-14	01-05-14	S24	116	0140	10	HAX	CAO	DAO	CAO	HSX	CSO	HSX			
12046	24-04-14	25-04-14	S17	204	0070	04	CAO	DSO								
12047	27-04-14	06-05-14	S18	47	0360	11	CRO	DSO	DAI	DSC	DKC	EKO	DAO	CAO		
12048	27-04-14	30-04-14	N20	124	0060	08	DAI	DAO	DSO							
12049	27-04-14	09-05-14	S07	21	0430	11	DAO	DHO	DKI	EKC	DKC	DAC	CAO	HSX		
12050	27-04-14	08-05-14	N12	16	0050	02	HSX	AXX								
12051	01-05-14	06-05-14	S09	56	0310	06	BXO	DAC	DKC	DAC						
12052	02-05-14	11-05-14	S12	334	0100	05	CRO	DSO	DAO	CRO	HRX	BXO				
12053	03-05-14	12-05-14	N10	318	0060	05	BXO	DAO	CRO	CAO	CRO	AXX				
12054	04-05-14	10-05-14	S12	292	0040	03	HSX	HRX	BXO							
12055	05-05-14	17-05-14	N13	272	0450	12	DAO	DKO	DHO	EHI	EKO	ESO	CSO	HAX		
12056	05-05-14	18-05-14	N06	259	0430	14	DKO	EKI	EHI	EKO	ESC	EAI	ESI			

