

Newsletter Belgian Solar Observers

Results and news from solar observers

Volume 18

Number 214

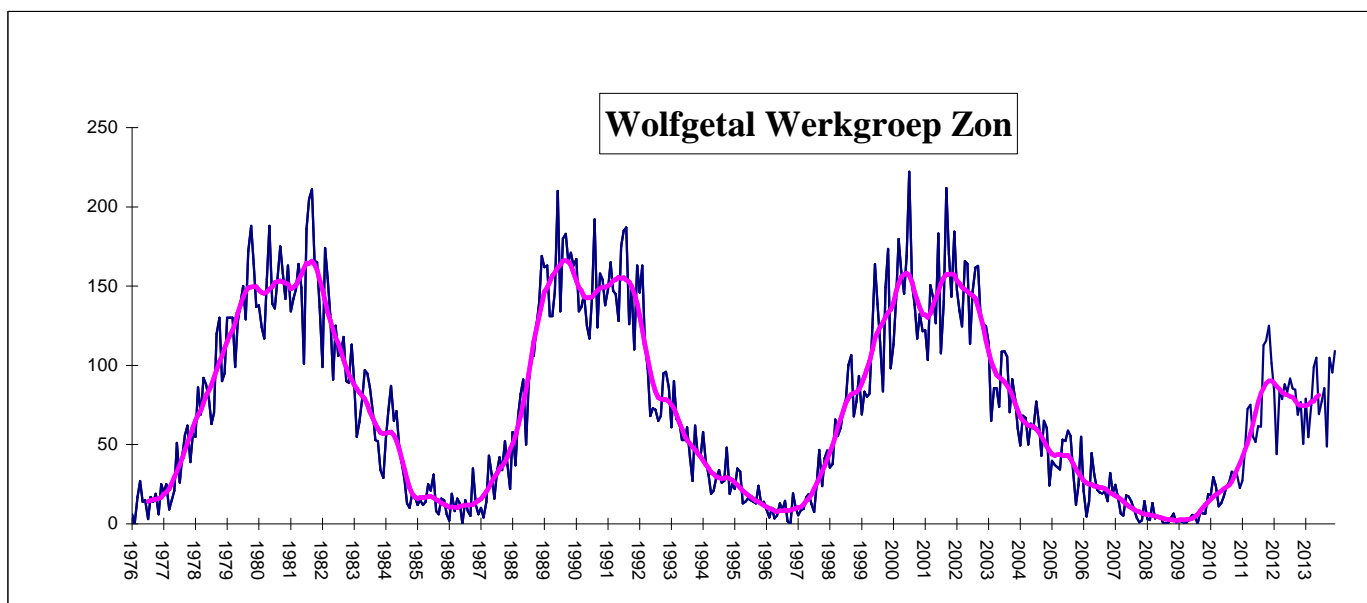
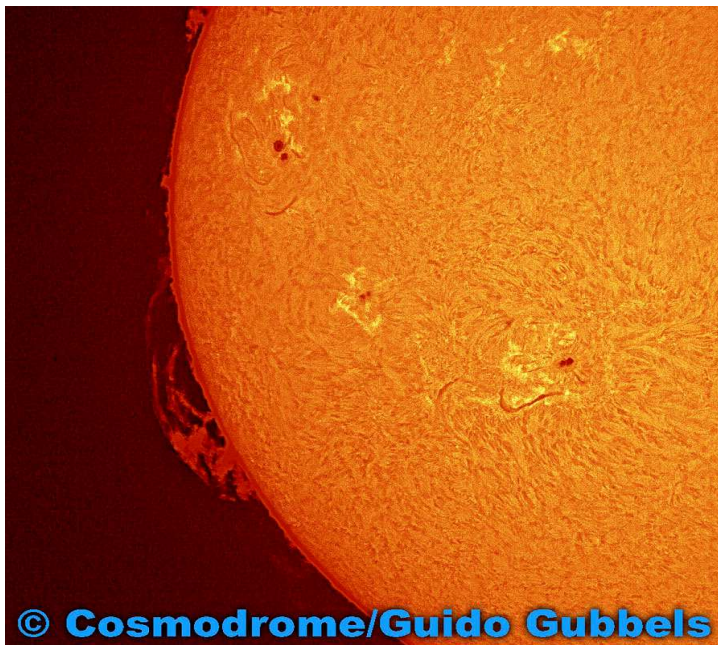
December 2013

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Content Newsletter

Graphics and relative number for this month, Daily Wolfnumbers by the members, Monthly sunspot report



Mean of December observations

<u>Groups</u> :	N	2,00	<u>Wolfnumb</u> N	23,7	<u>Beck</u> :	770,8
	S	5,43	S	85,4	<u>CV</u>	102
	N+S	7,43	N+S	109,1	<u>SN</u>	115,4
282 observations	22 observers				<u>IS</u>	46,1

Sunspotnumbers VVS Belgium

Month: **December 2013**

Day	GROUPS			WOLFNUMBER							
	N	S	N+S	N	S	N+S	RE'	CV	SN	IS	OBS
1	2	5	7	24,9	87,9	112,8	883	80	122	55	16
2	2	6	8	15,2	107,6	122,8	894	91,0	147,3	56	16
3	1	6	7	6,9	87,5	94,4	670	88,7	130	41	13
4											
5	0	6	6	0	75,0	75,0	346	96,0			1
6	0	5	5	0	91,7	91,7	556	60,3	75,5	38	12
7	0	5	5	0	75,5	75,5	556	57,0	84	30	4
8	1	5	6	5,6	89,2	94,8	768	82,0	75		9
9	4	7	11	41,3	97,0	138,4	930	129,0	146,0	54	16
10	5	7	12	62,6	112,4	175	1083	155	177,8	78	15
11	4	7	11	64,3	105	169	983	175,3	186	83	12
12	4	5	9	52,1	75,1	127,2	894	147,0	140	55	10
13	4	5	9	58	65	122,9	799	131,7	114,5	49,0	11
14	5	4	9	66	62,2	127,9	847	136,2	126,5	56,3	13
15	4	3	7	54	56,1	110,0	804	108,7	106	61	10
16	2	3	5	26	52,3	78,4	456	90,3	76	17	11
17	2	3	5	25	50,0	75,0					1
18	2	3	5	23,2	108,2	131,4	879	119	143	51	8
19	3	5	8	36	87,2	123,4	811	113,3	126,0	45	7
20	3	6	9	29,7	97,2	126,9	934	132,0	141	40	15
21	3	6	9	33,7	92,3	126,0	860	146			2
22	1	6	7	8,6	88,4	97,0	686	100,3	99	31	7
23	1	6	7	3,7	80,0	83,8	651	102,0	104	32,0	10
24	0	7	7	0	86,4	86,4	240	39,6	58	19,5	10
25											
26	0	7	7	0	92,4	92,4	463	50,4	67	22	11
27											
28	1	6	7	6	94,7	100,6	857	69	110	43,3	16
29	1	6	7	10	106,0	116,4	1171	80	133	58,3	16
30	0	5	5	0	77,3	77,3	939	80,5	82,0		6
31	1	7	8	9,7	90,8	100,5	853,5	94,5			4
	2,00	5,43	7,43	23,7	85,4	109,0	770,8	102,0	115,4	46,1	282

Monthly mean: **109,0** Covering: **28/31** Spotless days: **0**
 Observations: **282** Number of observers: **23**

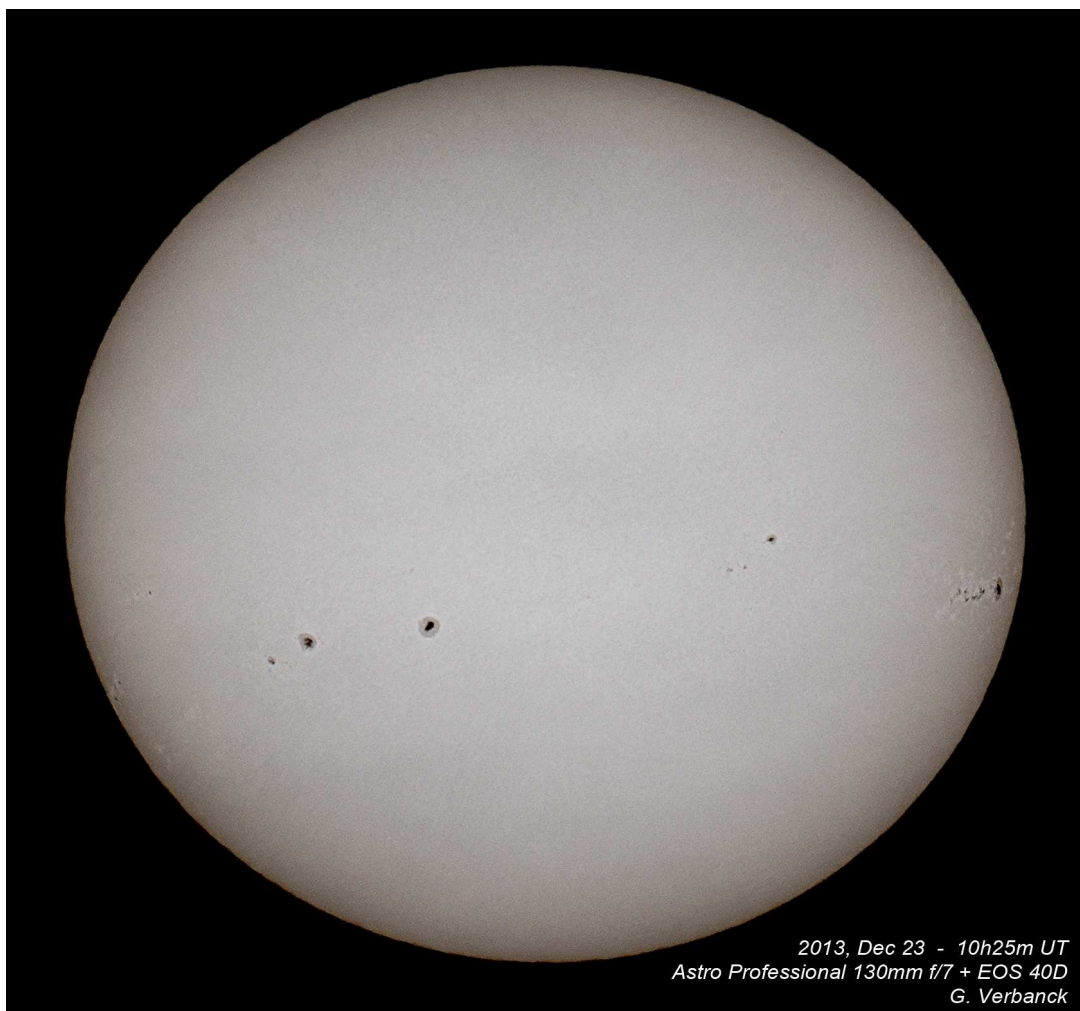
V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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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

N.O.A.A.	ZICHTBAAR		N.O.A.A.	MAX	MAX	classificatie								
Regio	van	tot	breedte	lengte	AREA	LENGTE	Macintosh							
11917	06-12-13	19-12-13	S15	75	0420	12	DAO	DAI	DKI	DKC	EKC	EKI	DKI	CSO
11918	08-12-13	19-12-13	S10	55	0180	06	HAX	DAO	CAO	HSX	AXX			
11919	09-12-13	12-12-13	S06	144	0020	06	CRO	AXX						
11920	09-12-13	21-12-13	N13	48	0090	04	HSX	HAX	CSO	HAX				
11921	09-12-13	22-12-13	N07	43	0400	08	HSX	HKX	CKO	DSO	HAX			
11922	10-12-13	15-12-13	N10	120	0120	10	DA	DSO	DSI	CAO				
11923	10-12-13	16-12-13	N18	78	0050	08	BXO	DAO	CRO	BXO				
11924	11-12-13	13-12-13	S13	151	0020	04	CRO	BXO						
11925	13-12-13	16-12-13	S07	9	0030	07	CRO	HRX	BXO					
11926	14-12-13	15-12-13	N10	54	0020	06	CRO	BXO						
11927	16-12-13	17-12-13	S26	100	0010	01	BXO							
11928	17-12-13	24-12-13	S17	5	0460	15	DAO	DAI	EKC	DAI				
11929	18-12-13	23-12-13	S12	312	0010	06	HRX	BXO	AXX					
11930	18-12-13	27-12-13	S11	326	0090	09	CAI	DAI	DSO	CAO	AXX			
11931	18-12-13	30-12-13	S15	285	0230	09	HAX	CAO	HAX					
11932	19-12-13	20-12-13	N04	330	0010	03	AXX							
11933	20-12-13	22-12-13	S13	27	0060	07	CSO	DAO	HSX					
11934	19-12-13	31-12-13	S15	267	0230	15	CAO	DAC	DAO	CAO	ESI	EAC		
11935	23-12-13	27-12-13	S07	250	0010	01	BXO	AXX						
11936	23-12-13	04-01-14	S16	223	0280	15	BXO	CAO	EAI	EAC	EAI	DAI	HSX	
11937	26-12-13	06-01-14	S12	198	0160	09	BXO	DAO	DAC	DAI				
11938	27-12-13	07-01-14	S12	178	0120	05	HAX	CAO	CRO	BXO	HRX	AXX		
11939	29-12-13	30-12-13	S06	285	0010	05	BXO							
11940	31-12-13	03-01-14	S12	233	0070	06	DRO	CAO	DAO					
11941	31-12-13	04-01-14	S13	211	0040	05	DRO	DAO	CSO	HRX				
11942	31-12-13	07-01-14	N10	130	0030	06	HRX	CRO	CAO	HSX	CRO	AXX		
11943	31-12-13	06-01-14	S12	117	0030	04	CRO	HRX	CRO	AXX				



2013, Dec 23 - 10h25m UT
 Astro Professional 130mm f/7 + EOS 40D
 G. Verbanck

Belgian Solar Observers

Polar Faculae

Month: December 2013

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	1	1	3	0	0	3,5	0	0	4																			
2				0	0	3,5				3	2	3,5																	
3				0	0	3,5				3	1	2,5																	
4																													
5																													
6																													
7																													
8																													
9										3	2	3																	
10										3	2	4																	
11										2	1	3,5																	
12																													
13																													
14										3	1	3,5																	
15																													
16																													
17																													
18																													
19																													
20							0	0	4	2	1	3																	
21																													
22																													
23										3	1	2,5				0	0	3											
24																													
25				0	0	3,5										0	0	3											
26																													
27																													
28				0	0	3,5				4	2	3,5				0	0	3,5											
29	1	0	3	0	0	3,5	0	0	4	4	3	4	0	1	3														
30																													
31																													
																		1,00	0,50	0,00	0,00	0,0	0,0	3,0	1,6	0,00	1,00	0,00	0,00

