

# Newsletter Belgian Solar Observers

Results and news from solar observers

Volume 20

Number 238

December 2015

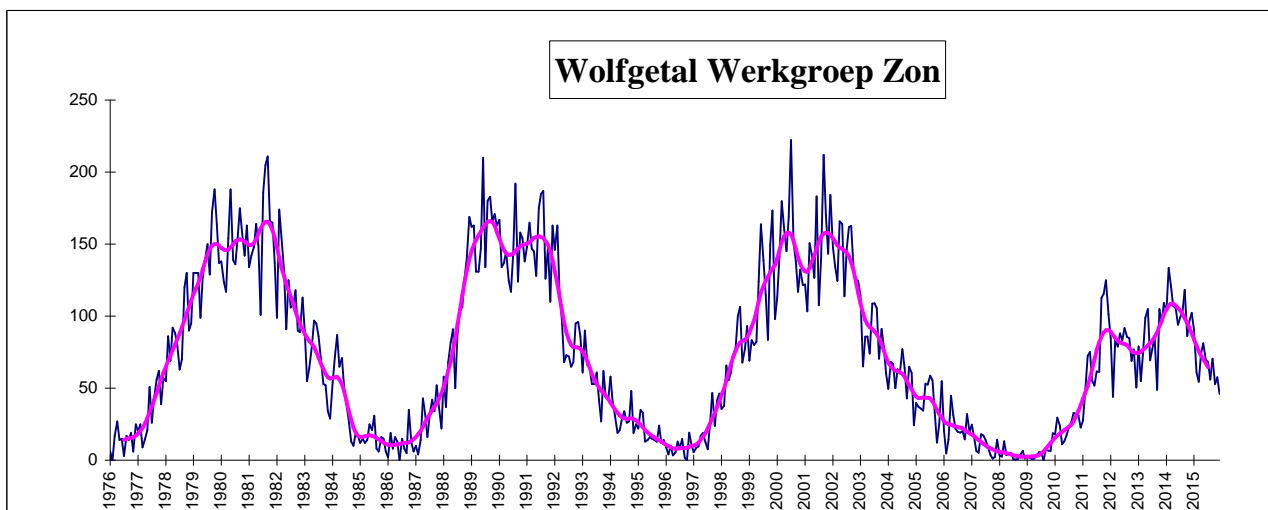
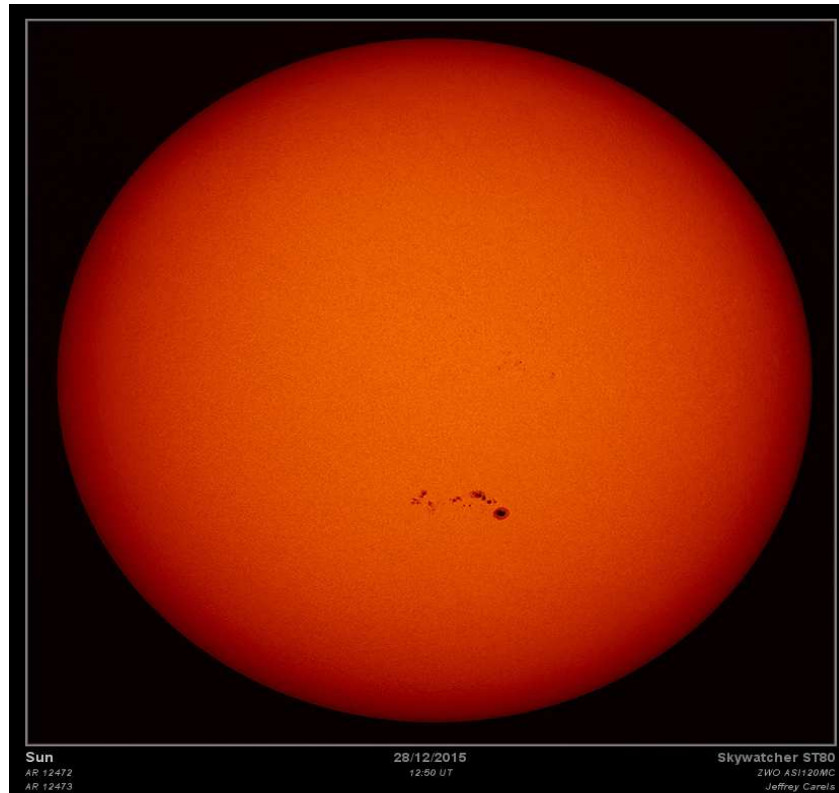
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## Content Newsletter

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

Polar faculae and CV numbers , Photo album and drawings



### Mean of December 2015 observations

Groups :	N	1,46	Wolfnumb N	18,8	Beck :	298,5
	S	1,62	S	24,4	CV	46,1
	N+S	3,08	N+S	43,2	SN	45,9
217 observations	24 observers				IS	14,4



# Sunspotnumbers VVS Belgium

Month: **December 2015**

Day	GROUPS			WOLFNUMBER			RE'	CV	SN	IS	OBS
	N	S	N+S	N	S	N+S					
1	2	0	2	21,3	0	21,3	52	16,5	27,0	4	3
2	2	1	3	24,7	9	33,2	78	15,4	23,0	10	14
3	3	0	3	28,9	0	28,9	56	16,7	14,5	7,0	13
4	2	1	3	14,6	16	30,1	117	27,0	29,0	6,0	15
5	1	2	3	9,9	23	32,9	128	35,0	32,0	7,0	7
6	1	3	4	11,2	29	40,2	163	38,6	45,0	10,0	9
7	1	3	4	11	40,3	51,6	142	34,0	35,0	10,0	12
8	1	3	4	13	36	48,1	153	31,3	34,0	6,0	9
9	1	4	5	13	56,2	69,2	227	37,5	56,0	27,5	17
10	0	5	5	0	65,7	65,7	163	40,0	54,0	21,0	7
11											
12	1	5	6	14,1	63,6	77,8	258	56,7	63,0		4
13											
14	3	2	5	45	28	72,3	382	64,0	64,5	17	9
15	2	2	4	33	15,4	48,8	365	65,5	35,0		5
16											
17	2	1	3	30	13	43,6	222	59,0	38,0	6	7
18											
19	2	1	3	21,6	8	29,7	171	46,7	25,0	8,0	7
20	1	0	1	17,5	0	17,5	169	50,0	21,5	8,0	8
21	1	0	1	19	0	18,7	124	47,0	17,0	4,0	7
22											
23	2	1	3	32,3	23	55,5	475	105,8	85,7	22,5	12
24	2	1	3	28,5	24	52,4	540	119,2	88,0	27,5	15
25	2	1	3	26,0	19	45,0	359				1
26	1	1	2	13	32	44,9	730	59,4	73,0	20,0	18
27	1	1	2	16	33	49,8	826	51,6	83,7	24,0	16
28	1	1	2	18	34	52,0	831	43,6	82,0	35,5	17
29	2	1	3	17,2	31	48,7	726	44,8	57,333	33,0	11
30	1	1	2	9	17,7	26,6	196	27,5	34	9,0	13
31	0	1	1	0	17,0	17,0	108	20	30,333	7,5	15
	<b>1,46</b>	<b>1,62</b>	<b>3,08</b>	<b>18,8</b>	<b>24,4</b>	<b>43,1</b>	<b>298,5</b>	<b>46,1</b>	<b>45,9</b>	<b>14,4</b>	<b>271</b>

Monthly mean: **43,1** Covering: **25/31** Spotless days: **0**  
 Observations: **271** Number of observers: **24**

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Observers:

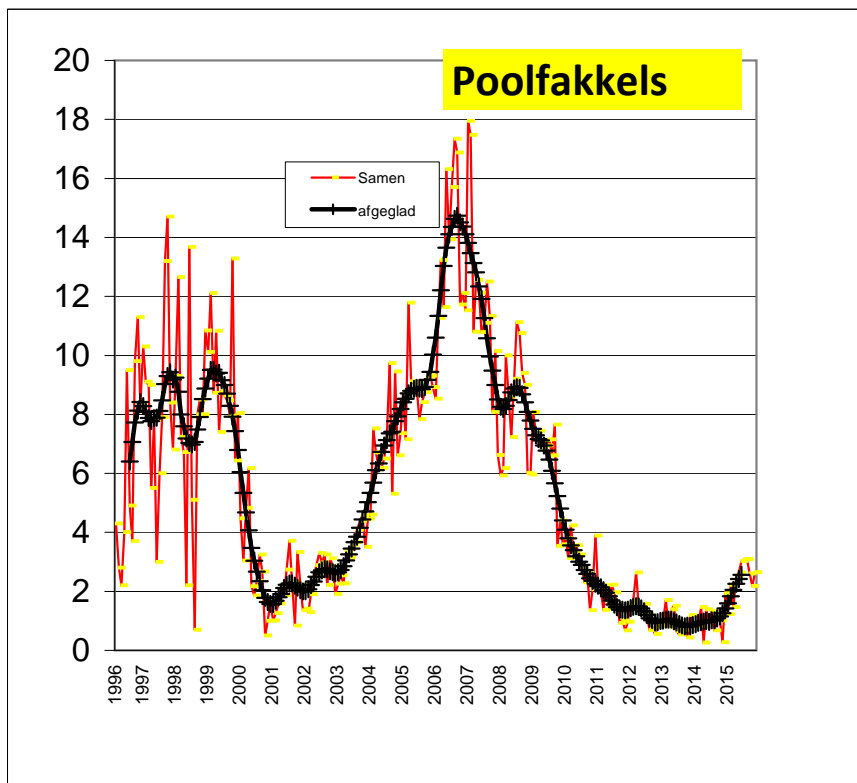
E.De Ceuninck ; J.Janssens ; Publ obs Mira ; J.Bourgeois ; R.Dezeure ; F.Feys  
 H. De Backer; F.Dubois ; B.Taillieu ; J.Carels ; R.De Laet ; G.Verbanck  
 L.Meeus ; O.Steen ; KSB ; L.Claeys ; B.Thooris ; G.Gubbels ; J.De Wit; J. Neys  
 R.Verboven ;F. Van Loo ; A.T.Son ; H.Coeckelberghs ; D.Van Hessche;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

# Belgian Solar Observers

## Polar Faculae

Month: December 2015

Date	Dubois 125mm F20			Steen 102mm F15			T.Spaninks 127mm F15			G.Gubbels 114mm F7,8			J.Carels			Janssen 200mm F10		
	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q
1																		
2				2	2	3,5												
3																		
4	1	5	3	1	4	3,5												
5																		
6																		
7				1	2	3,0												
8																		
9	1	5	3	0	1	3,5												
10																		
11																		
12																		
13																		
14							0	0	4									
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23																0	2	3
24																		
25																		
26																0	2	3
27																		
28																		
29																		
30																0	0	2,5
31																		
	1,00	5,00		1,00	2,25		0,0	0,0		#####	#####		#####	#####		0,00	1,33	



N.O.A.A.	ZICHTBAAR		N.O.A.A.	MAX	MAX	classificatie									
Regio	van	tot	breedte	lengte	AREA	LENGTE	Macintosh								
12457	18-11-15	30-11-15	N12	30	0130	09	BXO	DSO	DAI	CAO	HAX				
12458	22-11-15	03-12-15	N08	355	0160	09	HAX	CSO	DAI	CAO	BXO				
12459	24-11-15	03-12-15	N04	332	0060	03	CAO	CAI	CAO	AXX	HRX	AXX			
12460	25-11-15	27-11-15	N12	3	0020	04	BXO	CRO	BXO						
12461	29-11-15	30-11-15	S07	29	0010	01	AXX								
12462	03-12-15	09-12-15	N09	215	0040	04	HAX	AXX	HRX	AXX					
12463	03-12-15	14-12-15	S10	211	0130	12	HAX	DAO	ESO	HAX	CRO	AXX			
12464	05-12-15	12-12-15	S12	188	0010	03	AXX	BXO	CRO	BXO					
12465	07-12-15	14-12-15	S06	170	0090	07	HAX	CAO	CSO	HAX	CAO	AXX			
12466	08-12-15	12-12-15	S13	199	0050	06	CRO	DAI	DAO	BXO	AXX				
12467	09-12-15	11-12-15	S05	190	0020	04	CRO	AXX							
12468	10-12-15	20-12-15	S15	127	0120	04	DAO	CAO	CRO	AXX					
12469	12-12-15	19-12-15	N18	100	0100	06	DSO	CAO	HAX	AXX					
12470	12-12-15	25-12-15	N15	80	0610	15	HSX	DKC	DKI	EKO	EHO	CHO	HHX		
12471	14-12-15	15-12-15	S21	97	0020	03	CRO	BXO							
12472	20-12-15	30-12-15	N03	329	0170	08	HAX	DAO	DAI	CAO	CRO	BXO	AXX		
12473	21-12-15	02-01-16	S22	332	0590	16	CSO	DAC	EKC	FKC	FHC	EAC	CAO	ESO	
12474	22-12-15	24-12-15	N08	85	0010	02	BXO	AXX							
12475	25-12-15	25-12-15	N08	358	0010	02	BXO	AXX							
12476	01-01-16	07-01-16	S10	202	0080	07	AXX	CRO	DAI	DAO	CRO	BXO	AXX		
12477	01-01-16	11-01-16	N12	190	0070	02	HSX	HAX	AXX						
12478	02-01-16	09-01-16	N07	199	0020	04	BXO	CRO	BXO						
12479	04-01-16	04-01-16	N11	217	0010	03	BXO								
12480	06-01-16	18-01-16	N03	123	0190	11	CAO	DAO	ESO	CSO	HSX				
12481	07-01-16	09-01-16	S18	237	0120	07	DAO								
12482	08-01-16	10-01-16	N02	178	0010	03	BXO								

