NIEUWSBRIEF V.V.S. WERKGROEP ZON

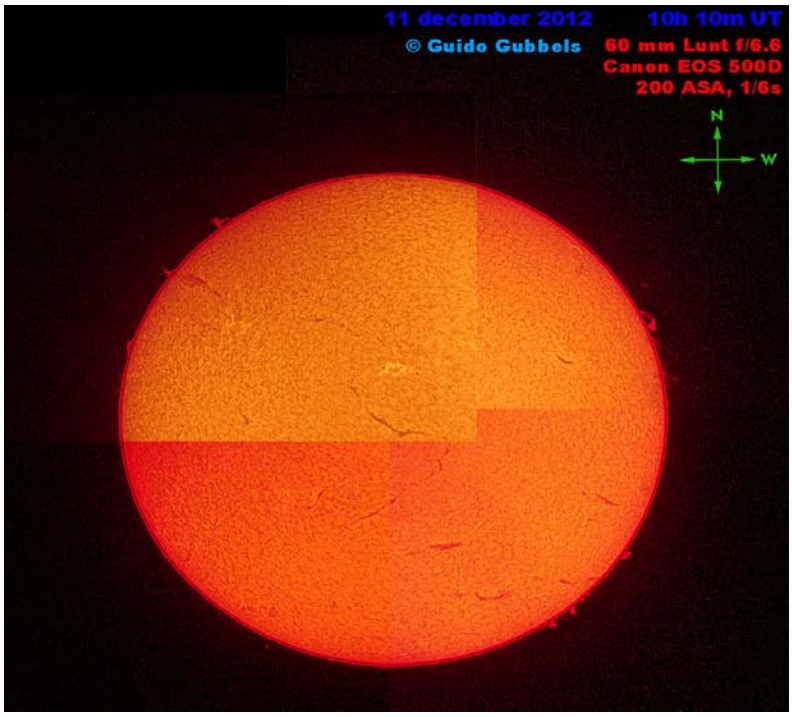
Waarnemingsresultaten en nieuws voor zonnewaarnemers	Jaargang : 17	Nummer: 202	December 2012

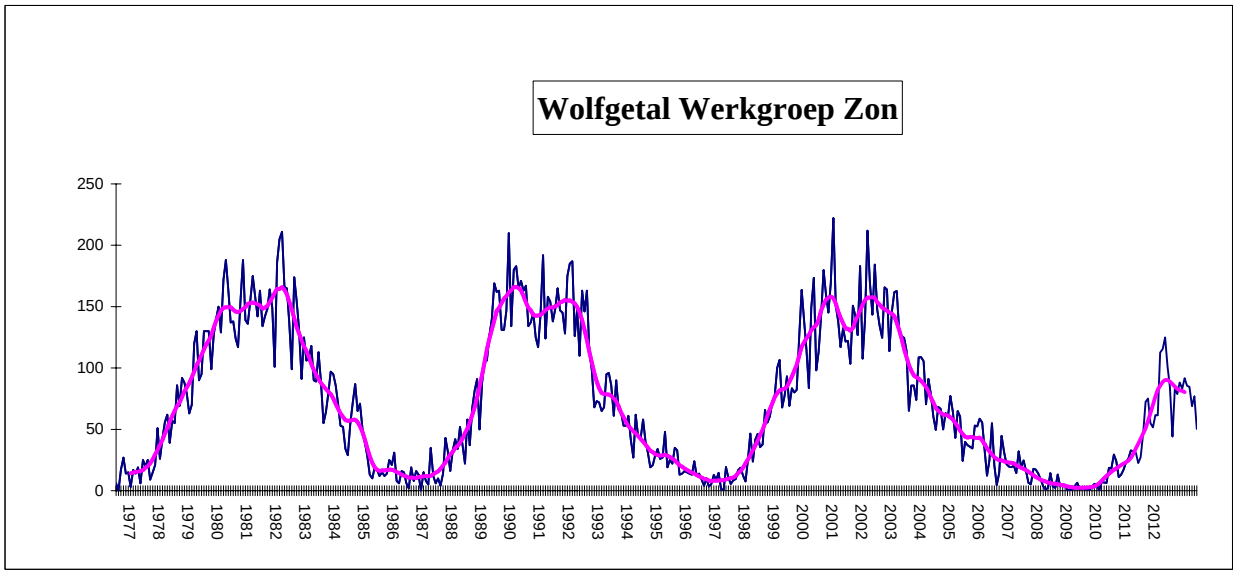
Franky Dubois Poelkapellestraat 57 Langemark 8920

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

Aan iedereen een gezond en zonnig 2013 gewenst, we sluiten het jaar af met dit laatste rapport.

2012 werd een middelmatig jaar qua waarnemingen en activiteit, hopelijk krijgen we beterschap in de vorm van beter weer en een activere zon.





Gemiddelden werkgroep zon december 2012

Groepen :	N	**2,96**	Wolfgetal :	N	**39,2**	RE'	**335**
	S	**0,82**		S	**11,1**	CV	**49,5**
	N+S	**3,79**		N+S	**50,4**	SN	**57,1**
192 waarnemingen		25 waarnemers				IS	**19,7**

Wolfnumbers Belgian Solar Observers

Month: **December 2012**

	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
Dag	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	
1	38										3	21	51	3	17	47										3	19	49							1
2	34										3	18	48	3	18	48										3	11	41	2	5	25	3	15	45	2
3	32																															3	16	46	3
4	39										3	10	40													3	9	39	2	7	27				4
5	43										5	12	62	4	6	46										3	5	35							5
6	20										2	8	28	2	4	24	1	7	17							2	5	25							6
7	22										3	6	36	3	7	37										3	4	34	1	2	12				7
8	36										5	18	68				3	9	39				3	15	45	4	9	49	2	6	26				8
9	30													3	12	42																5	19	69	9
10	31										2	25	45	2	25	45										2	19	39	2	5	25				10
11	34	2	24	44							2	31	51	2	21	41	2	26	46				2	30	50	2	22	42	2	14	34				11
12	48	4	29	69							4	32	72	4	31	71	3	31	61	3	36	66	4	41	81	3	28	58	3	17	47				12
13	49				3	16	46				5	33	83													5	24	74				4	29	69	13
14	43																															4	25	65	14
15	45										4	19	59	4	16	56	3	23	53							4	20	60	3	10	40				15
16	47										5	17	67	5	28	78										4	13	53	3	16	46	4	18	58	16
17	53										5	21	71	5	18	68													2	13	33	5	27	77	17
18	43	4	19	59																						4	13	53							18
19	39													3	12	42										3	14	44							19
20	40																																		20
21	43										3	23	53																2	17	37				21
22	56																																		22
23	57																																		23
24	41																																		24
25	41										3	18	48	3	22	52	2	18	38							2	18	38	2	13	33				25
26	41										4	20	60	3	11	41	2	13	33							4	19	59	1	7	17	4	27	67	26
27	39										4	13	53													4	11	51	3	7	37	4	26	66	27
28	38																									4	9	49							28
29	40										3	5	35	3	4	34	3	7	37							2	6	26	2	5	25				29
30	40										4	10	50	3	8	38										3	10	40	2	3	23	4	7	47	30
31	64										6	20	80	6	18	78										6	20	80				4	11	51	31
#	**40,8**			**57,3**			**46,0**			#####			**55,2**			**49**			**40,5**			**66,0**			**58,7**			**47,2**			**30,4**			**60,0**	

Observations of the SIDC are not included in the Belgian monthly Wolfnumber.
Publ Obs Mira : observers : Francis Meeus , Guido Mattheus and Marc Rayen

	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
Dag	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	
1	38																			2	21	41				3	17	47							1
2	34													3	15	45				2	16	36	3	17	47	3	16	46							2
3	32																																		3
4	39							5	12	62				4	16	56																			4
5	43																																		5
6	20																			2	7	27	1	7	17										6
7	22																			3	8	38													7
8	36				4	12	52	4	10	50	4	21	61	5	16	66	3	9	39	3	14	44	2	7	27	4	20	60	3	9	39				8
9	30																																		9
10	31																			2	33	53	2	25	45										10
11	34							2	16	36										2	28	48	2	25	45										11
12	48							3	20	50	3	33	63	4	31	71				4	45	85	3	28	58										12
13	49							3	13	43																									13
14	43																																		14
15	45							4	16	56	5	23	73	5	24	74							5	25	75	4	16	56							15
16	47																																		16
17	53																			5	33	83	4	15	55	4	27	67							17
18	43																																		18
19	39							3	14	44																									19
20	40																																		20
21	43																			3	53	83	3	40	70										21
22	56																																		22
23	57																																		23
24	41							2	12	32																									24
25	41				4	28	68													4	27	67	3	25	55	4	25	65							25
26	41							2	12	32	4	26	66	5	25	75				4	19	59				4	23	63							26
27	39										4	14	54	5	14	64																			27
28	38																																		28
29	40							5	7	57	5	9	59							5	12	62	5	10	60	3	5	35				4	8	48	29
30	40				5	7	57	5	8	58	5	15	65	5	14	64				5	12	62	4	14	54	5	12	62							30
31	64																																		31
#	**40,8**			######			**59,0**			**47,3**			**63**			**64,4**			**39,0**			**56,3**			**50,7**			**55,7**			**39**			**48,0**	

	SIDC	J.Bonse			J.De Wit			Verbanck G.						R.De Laet												Marijke Decks SDO									Dag
Dag	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	g	f	R	Beck	CV	SN	Poolfakkels N en Z			
1	38																																		1
2	34				3	15	45	3	12	42																									2
3	32																																		3
4	39																																		4
5	43																																		5
6	20																																		6
7	22				2	2	22																												7
8	36				2	3	23	5	15	65																									8
9	30																																		9
10	31																																		10
11	34				3	18	48	2	21	41				2	31	51																				11
12	48				3	16	46							2	15	35																				12
13	49																																		13
14	43																																		14
15	45				4	18	58	4	22	62																										15
16	47																																		16
17	53																																		17
18	43																																		18
19	39																																		19
20	40																																		20
21	43																																		21
22	56																																		22
23	57																																		23
24	41																																		24
25	41				2	15	35																												25
26	41				3	16	46	2	14	34																										26
27	39																																		27
28	38																																		28
29	40				3	5	35	5	8	58				4	7	47																				29
30	40				2	3	23	4	8	48																										30
31	64																																		31
#	**40,8**			######			**38,1**			**50,0**			######			**44,3**			######			#####			#####			#####	#####	#####	#####	####	#####		

Observations R.DE Laet are made with a PST detuned !
Observations of M. Decks are not included in the average of the group , observations are made from HR images of the SDO.

Sunspotnumbers VVS Belgium

Month: 'December 2012

	GROUPS			WOLFNUMBER							
Day	N	S	N+S	N	S	N+S	RE'	CV	SN	IS	OBS
1	3	0	3	47,0	0	**47,0**	491	51,5	69,0	20,0	5
2	3	0	3	42,5	0	**42,5**	308	48,3	54,7	18,7	11
3	3	0	3	46,0	0	**46,0**	208	47,0	50,0	19,0	1
4	4	0	4	41,8	3,0	**44,8**	180	32,5	66,0	19,0	5
5	3	1	4	36,7	11,0	**47,7**	161	21,5	22,0	8,0	3
6	2	0	2	23,0	0	**23,0**	180	17,5	30,0	5,0	6
7	3	0	3	29,8	0	**29,8**	147	16,5	16,0	9,0	6
8	5	0	5	47,1	0	**47,1**	113	36,8	31,0	20,0	17
9	4	0	4	55,5	0,0	**55,5**	190	33,5	47,0	16,0	2
10	2	0	2	42,0	0,0	**42,0**	462	38,0	61,0	27,0	6
11	2	0	2	44,4	0,0	**44,4**	418	50,6	57,0	23,0	14
12	4	0	4	62,2	0,0	**62,2**	508	78,7	88,5	34,5	15
13	4	1	5	57,8	5,2	**63,0**	300	65,5	81,0	28,0	5
14	4	0	4	65,0	0,0	**65,0**	410	65,0	66,0	29,0	1
15	3	2	5	33,6	26,5	**60,2**	380	88,3	90,0	24,0	12
16	3	2	5	35,6	24,8	**60,4**	378	91,7	84,0	26,5	5
17	3	2	5	36,9	27,9	**64,9**	635	84,5	82,0	25,5	7
18	2	2	4	23,0	33,0	**56,0**	412	81,5			2
19	1	2	3	12,0	31,3	**43,3**	387	53,5	45,0	15,0	3
20											
21	1	2	3	20,6	40,1	**60,8**	1011				4
22											
23											
24	1	1	2	19,0	13	**32,0**					1
25	2	1	3	38,3	11,6	**49,9**	493	44,3	71,5	24,0	10
26	3	1	4	40,3	10	**50,2**	367	49,4	70,3	24,0	13
27	3	1	4	45,0	13	**57,6**	289	61,0	73,0	22,5	5
28	3	1	4	36,0	13,0	**49,0**	104	33,0			1
29	4	1	5	31,3	12,8	**44**	111	27,7	31	5	14
30	4	1	5	36,6	13	**49,4**	100	20,2	27	12,0	14
31	4	2	6	48,8	23,5	**72,3**	292,3	50,0	58,5	18	4
	2,96	**0,82**	**3,79**	**39,2**	**11,1**	**50,4**	**334,6**	**49,5**	**57,1**	**19,7**	**192**

Monthly mean: **50,4** Covering: **28/31** Spotless days: **0**

Observations: **192** Number of observers: **25**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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Observers:

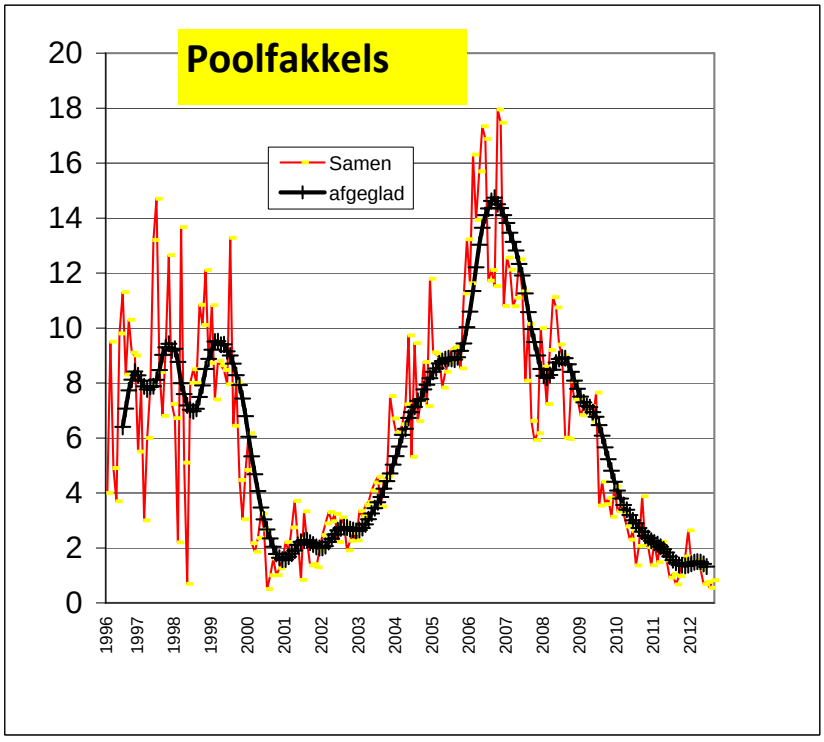
E.De Ceuninck ; J.Janssens ; Publ obs Mira ; J.Bourgeois ; R.Dezeure ; F.Feys H. De Backer; F.Dubois ; B.Taillieu ; J.Carels ; E.Neven ; R.De Laet; M.Deckx L.Meeus ; O.Steen ; KSB ; L.Claeys ; B.Thooris ; J.Bonse ; G.Gubbels J.Claes ; R.Verboven ;F. Van Loo ; A.T.Son ; H.Coeckelberghs ; D.Van Hessche

Belgian Solar Observers

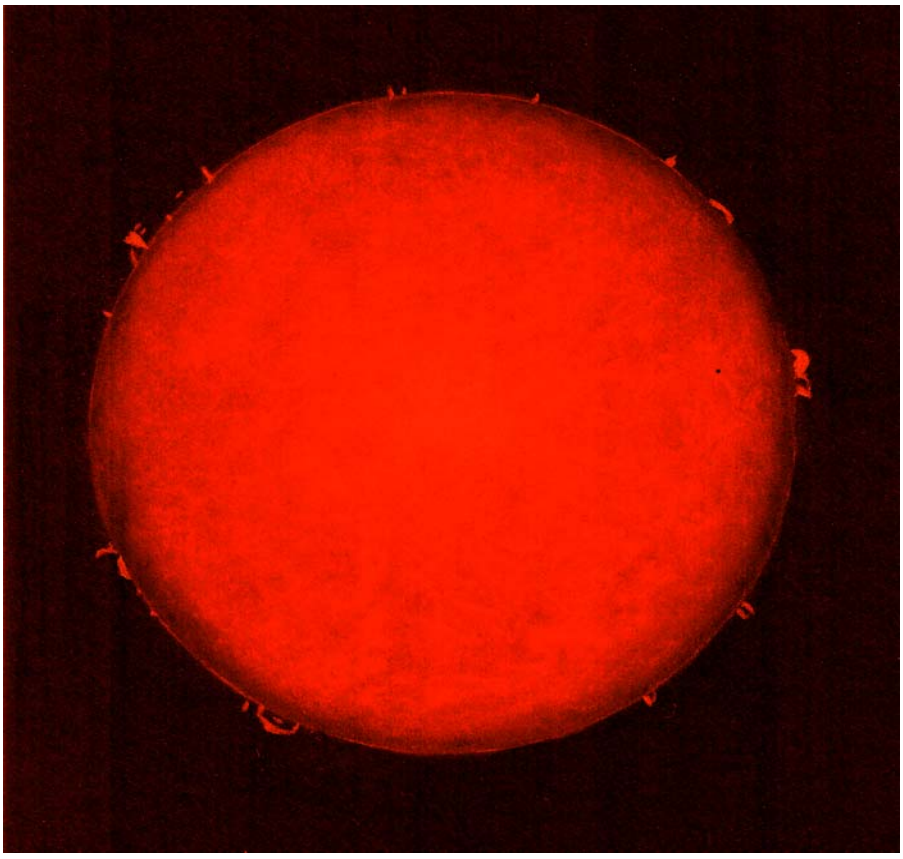
Polar Faculae

Month: December 2012

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																		
2				0	0	3,5	0	0	4	2	1	3	0	0	3			
3																		
4										2	0	2.5						
5																		
6																		
7				0	0	3,5												
8				0	1	3,5	0	0	3	1	1	3.5				0	0	3
9																		
10																		
11				0	0	4,0										2	0	4
12				0	3	4,0												
13																		
14																		
15				1	0	3,5				1	1	3						
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26							0	0	4	2	1	2.5						
27																		
28																		
29																		
30							0	0	3	1	1	3.5						
31																		
	######	#####		0,17	0,67		0,0	0,0		1,5	0,8		0,00	0,00		1,00	0,00	



N.O.A.A.	ZICHTBAAR		N.O.A.A.		MAX	MAX	classificatie							
Regio	van	tot	breedte	lengte	AREA	LENGTE	Macintosh							
11618	17-11-12	27-11-12	N08	132	0450	14	EAI	ESI	FAC	EKC	EAO			
11619	17-11-12	24-11-12	N10	171	0200	12	DAO	DAI	DSI	DSO	DAO	HSX	ESO	
11620	20-11-12	30-11-12	S12	94	0420	15	CSO	HSX	DAI	ESI	EKC	EAI		
11621	24-11-12	06-12-12	N15	17	0130	04	HAX	HSX	CAO	CSO	DAO	AXX		
11622	26-11-12	26-11-12	S24	52	0010	04	BXO							
11623	27-11-12	10-12-12	N08	341	0450	11	DSO	EKO	DAO	CSO	DSO	HSX		
11624	28/111/12	29-11-12	N20	32	0010	02	BXO	AXX						
11625	29-11-12	01-12-12	N15	341	0230	08	DSO	DAO	CSO	HSX	AXX			
11626	04-12-12	05-12-12	N11	298	0010	02	HAX	BXO						
11627	05-12-12	05-12-12	S16	318	0005	00	AXX							
11628	05-12-12	06-12-12	N10	249	0010	01	AXX							
11629	08-12-12	17-12-12	N11	238	0170	09	CRO	DAO	DAI	DSO	HSX			
11630	09-12-12	14-12-12	N20	254	0090	07	DAO	DAI						
11631	12-12-12	18-12-12	N21	219	0140	09	DAO	DAI	DSI	DSO				
11632	12-12-12	17-12-12	N17	231	0020	05	CRO	BXO	AXX	CAO				
11633	14-12-12	26-12-12	S07	111	0340	15	EHI	EHO	EKI	ESI	EAI	DSO		
11634	15-12-12	24-12-12	S13	111	0090	14	HSX	CSO	CAO					
11635	18-12-12	29-12-12	N12	63	0250	12	DSO	EKI	EHI	ESI	DAC	DSI	CAO	HRX
11636	25-12-12	01-01-13	N11	351	0010	04	BXO	AXX						
11637	26-12-12	29-12-12	N11	351	0010	04	BXO	AXX						
11638	27-12-12	08-01-13	N13	308	0150	04	HSX	CAO	DAO	CAO	HSX			
11639	27-12-12	01-01-13	S16	310	0090	05	DAO	CAO	CRO	CSO	AXX			
11640	30-12-12	07-01-13	N28	320	0360	13	DSO	CAO	DAI	EKI	EHO			
11641	31-12-12	07-01-13	N05	279	0050	06	CSO	CAO	CSO	HSX	HRX			
11642	31-12-12	12-01-13	S24	252	0140	03	HAX	HSX						
11643	02-01-13	02-01-13	S14	258	0010	04	BXO							
11644	02-01-13	12-01-13	N15	240	0080	12	ESO	HSX	CSO	HSX				
11645	03-01-13	09-01-13	S14	293	0050	08	DRO	DAO	BXO	CRO				
11646	03-01-13	08-01-13	N14	230	0080	02	HSX							
11647	04-01-13	06-01-13	N16	329	0030	07	CAO	CRO						
11648	04-01-13	09-01-13	N05	224	0040	07	CRO	CAO	CRO	A XX				



29/12/2012 Jef De Wit