NIEUWSBRIEF V.V.S. WERKGROEP ZON

Waarnemingsresultaten en nieuws voor zonnewaarnemers	Jaargang : 16	Nummer: 189	November 2011

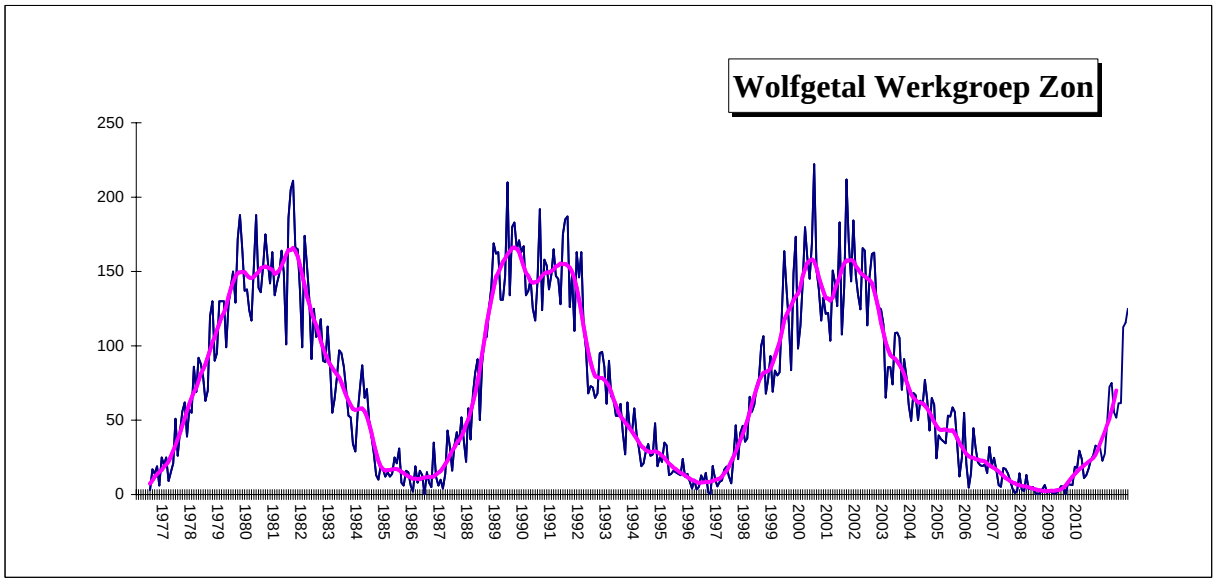
Franky Dubois Poelkapellestraat 57 Langemark 8920

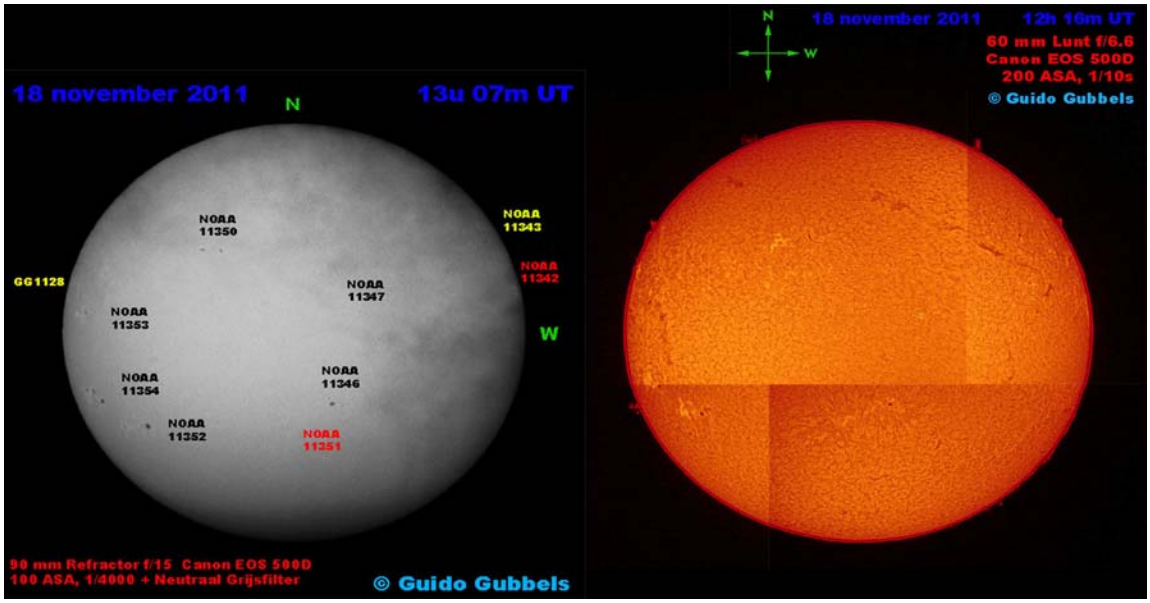
Web site: http://www.bso.vvs.be/ e-mail astrosun@skynet.be

Weer rijkelijk laat deze maand, door tijdsgebrek krijg je de Rp waarden van november volgende maand.

Blijkbaar iets verkeerd gegaan met de NOAA tabel verleden maand, in dit nummer vind u de data tot halverwege december.

Aan iedereen een zonnig en gezond 2012 gewenst !





Gemiddelden werkgroep zon November 2011

Groepen :	N	5,75	Wolfgetal :	N	86,5	RE'	1009,2
	S	2,64		S	38,4	CV	108,8
	N+S	8,39		N+S	124,9	SN	145,8
288 waarnemingen		26 waarnemers				IS	57,3

Wolfnumbers Belgian Solar Observers

Month: **November 2011**

	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	87										7	35	105	7	33	103	4	22	62				7	37	107				5	16	66	8	25	105	1
2	89										8	40	120	8	26	106	7	21	91										6	13	73				2
3	87																																		3
4	69	4	39	79	4	26	66				5	42	92	4	50	90	4	45	85				4	45	85				4	36	76	4	41	81	4
5	79	7	47	117							7	60	130	5	56	106	5	44	94	5	77	127				4	44	84	5	30	80	5	50	100	5
6	101																																		6
7	120																																		7
8	119																						7	75	145	7	78	148							8
9	123	9	76	166													8	74	154				8	96	176	9	65	155							9
10	118	8	61	141	9	50	140				9	105	195	8	57	137	8	73	153							8	75	155	8	31	111	8	88	168	10
11	113																8	58	138	9	84	174	8	74	154	8	73	153							11
12	109	9	43	133							10	41	141	9	37	127	10	42	142	11	62	172	9	40	130	9	58	148	11	22	132	10	52	152	12
13	113										11	45	155	10	61	161	10	41	141	11	63	173										12	49	169	13
14	114	13	32	162	9	14	104										11	31	141	13	64	194	12	42	162	9	27	117							14
15	98	11	32	142	10	17	117													9	53	143	9	32	122	9	30	120				10	25	125	15
16	87	11	27	137	7	12	82										8	27	107	8	41	121	9	27	117	9	22	112							16
17	84										9	25	115													7	18	88	7	14	84				17
18	92	8	36	116							8	39	119	9	36	126							8	45	125	7	31	101	6	18	78	8	48	128	18
19	89										10	42	142				8	43	123							7	33	103							19
20	95										7	51	121	9	61	151	8	59	139							7	48	118	9	31	121				20
21	88										8	58	138							6	47	107													21
22	96										8	53	133	8	45	125	7	44	114							8	51	131	6	13	73	9	34	124	22
23	99										8	40	120	8	35	115										7	38	108	8	29	109	8	41	121	23
24	91										8	36	116	8	42	122																10	50	150	24
25	110										11	37	147	10	41	141																			25
26	91	8	24	104							10	40	140	10	38	138	6	27	87				8	23	103	9	39	129	8	17	97	10	45	145	26
27	86										9	29	119	8	24	104																10	40	140	27
28	68	6	28	88	6	16	76				6	38	98	6	32	92	6	22	82	5	45	95	6	47	107	5	34	84	6	12	72				28
29	94	10	41	141							9	39	129	8	44	124										8	39	119	8	33	113				29
30	92										8	53	133	8	35	115	8	35	115				9	51	141	8	35	115	9	28	118				30
#	**96,7**			**127,2**			**97,5**			**#####**			**129,0**			**121**			**115,8**			**145,1**			**130,6**			**120,4**			**93,5**			**131,4**	

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	87				8	37	117	8	31	111	7	30	100	7	32	102				7	23	93				7	27	97							1
2	89							8	27	107	8	29	109	8	36	116	7	17	87	7	31	101	8	25	105				7	17	87	7	31	101	2
3	87																																		3
4	69							4	40	80										5	42	92				4	25	65							4
5	79	4	93	133				6	46	106	6	51	111	5	36	86										6	31	91							5
6	101	7	114	184																															6
7	120																																		7
8	119													7	70	140																			8
9	123							8	76	156				8	81	161	8	52	132										8	45	125				9
10	118							8	78	158										8	53	133	8	44	124	8	56	136							10
11	113				8	47	127							8	57	137	8	72	152										8	69	149				11
12	109				9	42	132	9	41	131	9	44	134	9	42	132				9	50	140	9	45	135	9	35	125				9	32	122	12
13	113										10	57	157							11	50	160				11	61	171							13
14	114							12	28	148	12	32	152	11	73	183	9	38	128										9	36	126	9	25	115	14
15	98							9	17	107				11	64	174	9	29	119										9	25	115				15
16	87							9	19	109				11	52	162																			16
17	84																																		17
18	92													8	63	143				8	52	132	8	31	111							6	28	88	18
19	89							8	37	117													9	35	125	9	42	132							19
20	95							7	22	92	8	43	123	8	48	128				7	53	123	7	37	107	8	50	130							20
21	88				8	30	110	9	38	128	7	37	107	10	83	183				8	44	124	7	29	99	8	52	132							21
22	96							10	58	158										10	55	155													22
23	99							9	51	141																									23
24	91																			9	37	127	8	36	116										24
25	110																			10	27	127	8	36	116										25
26	91							7	21	91	7	24	94							9	33	123	9	30	120										26
27	86																						7	30	100	9	28	118							27
28	68							5	15	65				6	44	104	6	37	97	5	30	80	7	35	105				6	35	95				28
29	94	7	51	121													7	41	111										7	1	71				29
30	92	8	58	138				7	27	97				7	89	159				8	40	120	7	36	106										30
#	**96,7**			**144,0**			**121,5**			**116,8**			**121**			**140,7**			**118,0**			**122,0**			**113,0**			**119,7**			**110**			**106,5**	

	SIDC	J.Bonse			J.De Wit			Verbanck G.																		R.De Laet									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				
1	87							9	41	131																									1
2	89																																		2
3	87																																		3
4	69				3	35	65	4	45	85																5	60	110							4
5	79							8	63	143																									5
6	101																																		6
7	120																																		7
8	119																																		8
9	123																									8	96	176							9
10	118																									8	78	158							10
11	113	8	43	123	8	51	131	8	74	154																									11
12	109				9	30	120	11	53	163																9	62	152							12
13	113																																		13
14	114				8	24	104																			11	60	170							14
15	98																									10	41	141							15
16	87				8	18	98																			10	34	134							16
17	84																																		17
18	92							8	53	133																									18
19	89				6	26	86	8	47	127																									19
20	95				7	36	106	9	54	144																8	63	143							20
21	88																									9	43	133							21
22	96																																		22
23	99																																		23
24	91																																		24
25	110																																		25
26	91				6	18	78	10	37	137																									26
27	86																																		27
28	68				6	24	84																			6	43	103							28
29	94																																		29
30	92				8	33	113																			10	42	142							30
#	**96,7**			**123**			**98,5**			**135,2**			**######**			**#####**			**#####**			**#####**			**#####**			**142,0**			**#####**			**#####**	

Observations R.DE Laet are made with a PST detuned !

Sunspotnumbers VVS Belgium

Month: 'November 2011

	GROUPS			WOLFNUMBER							
Day	N	S	N+S	N	S	N+S	RE'	CV	SN	IS	OBS
1	7	1	8	85,9	14	**99,9**	497,1	91,429	90,25	37,5	14
2	7	1	8	84,6	16	**100,3**	597,8	129,6	104,67	36,5	13
3											
4	3	1	4	62,0	20	**82,2**	1055,4	90,4	89,5	54	15
5	4	2	6	78,7	29	**107,7**	1713,6	107	123	50	14
6	5	2	7	149,0	35,0	**184,0**	3683,0				1
7											
8	4	3	7	97,7	46,7	**144,3**	1957,7	143,5	262	76	3
9	4	4	8	96,4	59,3	**155,7**	1934,3	128	255	88	10
10	4	4	8	88,6	58,2	**146,8**	1629,4	141	179,5	63	13
11	4	4	8	79,2	65,5	**144,7**	1230,5	129,33	171	63	11
12	4	5	9	64,5	73,6	**138,2**	1031,5	140	162	46	21
13	6	5	11	87,5	73,4	**160,9**	824,3	122,5	140	67	8
14	7	4	11	100,1	43,2	**143,3**	724,6	128	212	83	15
15	8	2	10	99,4	30,2	**129,5**	720,0	139,4	207	73	12
16	7	3	10	77,9	40,0	**117,9**	660,2	139	178	63	10
17	7	2	9	66,3	29,4	**95,7**	497,5	117,0	123		3
18	5	3	8	57,6	59,1	**116,7**	692,2	84,833	155	56,5	13
19	4	4	8	43,0	73,3	**116,3**	769,3	82,333	114		9
20	5	4	9	58,8	68,5	**127,3**	818,3	87,8	139	62,5	14
21	6	3	9	78,0	51,1	**129,1**	939,0	84,25	143	93	10
22	6	3	9	81,7	42,8	**124,5**	746,2	92,5	135,5	52	8
23	6	3	9	85,3	29,3	**114,6**	698,8	90	122,5	40	5
24	6	2	8	98,8	27,4	**126,2**	535,8	79,667	113,5	49	5
25	8	2	10	111,1	22	**132,8**	708,0	89,5	112,5	48	4
26	8	2	10	96,1	17	**113,3**	561,8	77,167	95,5	44	14
27	8	1	9	105,7	10	**116,2**	594,0	82,333	94	28	5
28	6	0	6	89,8	0,0	**89,8**	565,9	77,6	101,33	43,5	17
29	6	2	8	98,5	17,6	**116,1**	907,0	121,75	139,5	48	8
30	6	2	8	101,0	23	**124,0**	965,1	142	173	68,5	13
	5,75	**2,64**	**8,39**	**86,5**	**38,4**	**124,9**	**1009,2**	**108,8**	**145,8**	**57,3**	**288**

Monthly mean: **124,9** Covering: **28/30** Spotless days: **0**

Observations: **288** Number of observers: **26**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

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Observers:

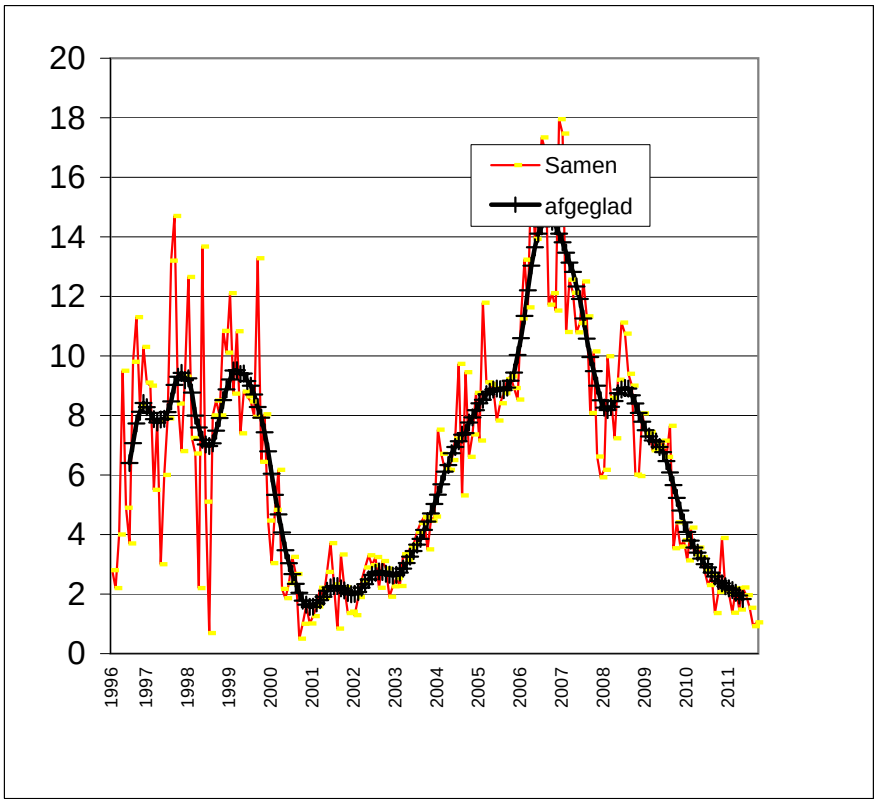
E.De Ceuninck ; J.Janssens ; Publ obs Mira ; J.Bourgeois ; R.Dezeure ; F.Feys H. De Backer; F.Dubois ; B.Taillieu ; J.Carels ; K. Dewaele L.Meeus ; O.Steen ; KSB ; L.Claeys ; B.Thooris ; J.Bonse J.Claes ; R.Verboven ;F. Van Loo ; A.T.Son ; H.Coeckelberghs G.Gubbels ; J Bavais ; D.Van Hessche; E.Neven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

Belgian Solar Observers

Polar Faculae

Month: November 2011

Date	Dubois 125mm F20			Steen 102mm F15			T.Spaninks 127mm F15			G.Gubbels 114mm F7,8			Janssen		
	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q
1										0	0	3.5	0	0	4
2										3	2	4	2	0	4
3															
4													3	0	3
5				0	0	3,5	0	0	4	3	2	3			
6															
7															
8										0	0	3			
9										2	2	3			
10				1	1	4,0									
11							0	0	4	0	0	3			
12										0	0	3	0	0	3
13	0	2	3	0	0	3,5									
14										0	0	4.5	0	0	3
15										0	0	3.5			3
16							0	0	4	0	0	3			
17															
18				0	0	3,5			4	0	0	3.5			
19				0	0	3,5							1	2	4
20	1	1	3	1	0	4	0	0	5	0	0	3.5			
21				0	0	4,5				0	0	2.5			
22				1	1	4,0									
23				0	0	4,0									
24	0	1	3												
25															
26				1	0	3,5									
27															
28				0	1	4,0				3	4	2.5			
29							0	0	4						
30				0	0	3,5				1	3	3.5			
31															
	0,33	1,33		0,33	0,25		0,0	0,0		0,8	0,9		1,00	0,33	



N.O.A.A.	ZICHTBAAR		N.O.A.A.		MAX	MAX	classificatie							
Regio	van	tot	breedte	lengte	AREA	LENGTE	Macintosh							
11149	21-01-11	26-01-11	N18	343	0250	09	DRI	DSI	DSO					
11150	28-01-11	06-02-11	S22	182	0080	11	BXO	DAO	DSI	BXO	CRO	AXX		
11151	28-01-11	29-01-11	N11	306	0020	02	CRO	AXX						
11152	03-02-11	06-02-11	S19	155	0030	05	BXO	CRO	BXO					
11153	04-02-11	10-02-11	N16	172	0030	08	CRO	BXO	DRO	DKO	DSO			
11154	08-02-11	08-02-11	N08	152	0010	01	AXX							
11155	08-02-11	08-02-11	N17	75	0010	02	CRO							
11156	08-02-11	12-02-11	S20	68	0040	07	CRO	DRO	CRO	BXO	AXX			
11157	08-02-11	16-02-11	N18	65	0050	08	CRO	BXO	CRO	DSO	DAO	BXO		
11158	11-02-11	20-02-11	S19	34	0620	13	DSI	EAC	EKC	EHC	DKC	DSI		
11159	11-02-11	15-02-11	N19	34	0020	06	AXX	BXO	CSO	BXO	AXX			
11160	NO SPOTS													
11161	14-02-11	24-02-11	N11	331	0260	15	BXO	DAI	DHI	EKI	EKC	EAO	DSO	HAX
11162	18-02-11	23-02-11	N18	336	0260	09	DAI	DSI	DAO	DSO	CSO			
11163	24-02-11	01-03-11	N18	179	0200	08	CRO	DAI	AXX					
11164	25-02-11	09-03-11	N24	164	0770	15	HKX	DAO	ESO	EHC	EKC	DAI		
11165	26-02-11	08-03-11	S22	181	0020	04	BXO	EAO	FKO	EKI				
11166	02-03-11	15-03-11	N10	93	0750	16	HRX	DSO	EAC	EKI	EKC	FKC	EKC	DAI
11167	03-03-11	10-03-11	N14	126	0020	07	BXO	AXX						
11168	04-03-11	05-03-11	N23	218	0030	01	AXX							
11169	05-03-11	17-03-11	N21	62	0360	13	BXO	DSI	DSO	ESC	EAI	EKC	CRO	HSX
11170	08-03-11	10-03-11	S25	160	0050	05	BXO	HRX						
11171	NO SPOTS													
11172	11-03-11	16-03-11	N12	342	0020	09	BXO	AXX						
11173	16-03-11	20-03-11	S29	307	0060	08	CAO	CRO	BXO					
11174	17-03-11	20-03-11	N23	11	0010	03	BXO	AXX						
11175	18-03-11	23-03-11	N11	330	0140	09	CRO	CSO	DSO	CSO				
11176	21-03-11	03-04-11	S15	200	0490	20	HSX	DHO	EKO	EHI	FKI	FSI	FSO	HSX
11177	23-03-11	29-03-11	N20	204	0030	04	AXX	BXO	CAO	CRO	BXO			
11178	24-03-11	31-03-11	S16	171	0130	06	AXX	CAO	DAI	DAO	BXO	AXX		
11179	24-03-11	27-03-11	N09	274	0020	04	BXO							
11180	25-03-11	04-04-11	N24	162	0070	02	HSX							
11181	25-03-11	05-04-11	S26	157	0020	02	HSX	AXX	HRX	A XX				
11182	27-03-11	27-03-11	N13	201	0000	01	AXX							
11183	27-03-11	07-04-11	N15	135	0330	14	EAI	ESO	CSO	HSX	AXX			
11184	01-04-11	09-04-11	N16	109	0170	10	AXX	DSO	HSX					
11185	04-04-11	15-04-11	N20	25	0100	08	HSX	CSO	DSI	DRI	CSO	HRX	AXX	
11186	06-04-11	15-04-11	N22	11	0090	14	AXX	CSO	DSO	CSI	HRX			
11187	07-04-11	13-04-11	S22	352	0040	06	AXX	CSO	BXO					
11188	08-04-11	09-04-11	S24	50	0020	03	CRO	BXO						
11189	08-04-11	13-04-11	N23	32	0040	07	DSO	CSO	AXX					
11190	11-04-11	20-04-11	N13	338	0440	13	CRI	DAI	EAC	EHC	EKI	DKO	CAO	
11191	12-04-11	22-04-11	N08	278	0140	09	HSX	CAO	HAX	CSO	HRX	AXX		
11192	12-04-11	16-04-11	N10	352	0020	04	BXO	AXX						
11193	13-04-11	24-04-11	N16	266	0430	14	DAO	EKO	EAI	EKI	EHI	ESI	EKI	CAO
11194	14-04-11	16-04-11	S31	7	0010	03	BXO	AXX						
11195	19-04-11	01-05-11	S17	192	0400	11	DAO	DAI	EKC	DHO	EHI	DHO	HSS	
11196	20-04-11	29-04-11	S27	164	0080	10	DAO	CRO	CSO	BXO	AXX			
11197	21-04-11	21-04-11	S16	178	0010	01	AXX							
11198	21-04-11	22-04-11	S25	270	0010	03	BXO							
11199	26-04-11	01-05-11	N18	189	0210	08	CAI	DAI	DSI	DSO				
11200	26-04-11	05-05-11	S17	121	0030	04	BXO	CRO	BXO					
11201	02-05-11	06-05-11	N16	116	0020	05	BXO	AXX						
11202	28-04-11	30-04-11	N15	177	0080	08	BXO							
11203	28-04-11	11-05-11	N17	64	0160	07	HSX	CSO	DAO	HSX				
11204	02-05-11	11-05-11	N17	48	0130	09	CSO	CAO	DAO	CAO	HSX			
11205	02-05-11	06-05-11	N14	39	0010	05	AXX	BXO	AXX					
11206	03-05-11	05-05-11	N22	91	0020	04	BXO	CRO						
11207	05-05-11	11-05-11	N24	10	0020	04	BXO							
11208	08-05-11	18-05-11	N11	321	0100	12	CRO	DSO	ESO	CSO	BXO	HSX		

11209	09-05-11	09-05-11	N35	360	0010	06	BXO							
11210	09-05-11	16-05-11	N19	347	0070	07	DSI	CSI	CSO	HRX	BXO	AXX		
11211	09-05-11	09-05-11	S12	18	0010	01	BXO							
11212	11-05-11	11-05-11	S13	285	0010	01	AXX							
11213	14-05-11	14-05-11	S21	8	0000	01	AXX							
11214	14-05-11	22-05-11	S24	270	0100	09	BXO	DAO	CSO	HSX				
11215	14-05-11	14-05-11	S23	318	0020	03	BXO							
11216	16-05-11	28-05-11	S15	193	0110	02	HSX							
11217	17-05-11	18-05-11	S23	267	0010	04	BXO							
11218	18-05-11	22-05-11	S16	168	0010	04	AXX	BXO	AXX					
11219	21-05-11	21-05-11	N15	125	0000	01	AXX							
11220	22-05-11	24-05-11	N14	248	0050	03	BXO							
11221	23-05-11	24-05-11	S18	239	0020	02	BXO							
11222	25-05-11	31-05-11	N16	166	0150	04	BXO	AXX	DSO	A XX				
11223	26-05-11	28-05-11	S16	115	0050	06	CSO	DSO	BXO					
11224	27-05-11	31-05-11	N20	131	0140	09	DSO	CAI	DSO	CSI				
11225	27-05-11	04-06-11	N17	60	0060	02	HSX	AXX						
11226	27-05-11	08-06-11	S22	37	0360	11	HSX	EAI	EKI	CSI	DKC	DSI	DAO	AXX
11227	29-05-11	10-06-11	S20	22	0190	10	CSO	DSI	DSO	HSX	CSO	HSX	AXX	
11228	29-05-11	09-06-11	N17	18	0150	08	HSX	CSO	DAO	CSO	DAO	AXX		
11229	30-05-11	04-06-11	N18	41	0040	06	CAO	CSO	BXO	A XX				
11230	31-05-11	04-06-11	N20	4	0030	04	BXO	AXX						
11231	01-06-11	04-06-11	N08	352	0090	09	HSX	CRO	BXO	A XX				
11232	02-06-11	11-06-11	N09	338	0080	04	HSX	CSO	HSX	A XX				
11233	05-06-11	06-06-11	S12	26	0000	01	AXX							
11234	09-06-11	19-06-11	S16	245	0150	09	BXO	DSO	DAI	DSI	DSO			
11235	11-06-11	14-06-11	N14	253	0010	03	AXX	BXO						
11236	13-06-11	26-06-11	N16	165	0350	13	DSO	EHI	DHO	ESI	CSO	HSX		
11237	17-06-11	18-06-11	S15	133	0000	01	AXX							
11238	19-06-11	19-06-11	S17	160	0010	01	AXX							
11239	20-06-11	25-06-11	S20	116	0050	06	AXX	BXO	DRO	CRO	AXX			
11240	20-06-11	29-06-11	S20	116	0050	06	AXX	BXO	DRO	CRO	AXX	BXO	AXX	
11241	24-06-11	27-06-11	N18	113	0050	05	DRO	BXO						
11242	28-06-11	04-07-11	N18	56	0090	06	CRO	DSO	DRO	BXO				
11243	28-06-11	08-07-11	N16	352	0100	08	CRO	CAO	CSO	DAI	DSO	CAO		
11244	01-07-11	07-07-11	N16	24	0120	07	BXO	DSO	DAO	DSO	AXX			
11245	07-07-11	16-07-11	N15	236	0050	03	CSO	HSX	CAO	HAX	AXX			
11246	08-07-11	09-07-11	N15	327	0010	03	BXO	AXX						
11247	08-07-11	13-07-11	S18	269	0080	12	DAI	CAO	DAI	ESI	CAO	HSX		
11248	08-07-11	08-07-11	N20	229	0010	01	AXX							
11249	09-07-11	13-07-11	S16	244	0020	03	AXX	CAO	CSO	CRO	AXX			
11250	10-07-11	20-07-11	S27	209	0170	07	DAI	DSO	CSO	HSX				
11251	11-07-11	24-07-11	N17	170	0160	03	HSX	AXX						
11252	13-07-11	16-07-11	N25	142	0030	11	CSO	HRX	BXO	A XX				
11253	13-07-11	13-07-11	N14	226	0003	03	BXO							
11254	14-07-11	25-07-11	S22	139	0110	09	CRO	CAO	DSO	CAI	DSO	CAO	AXX	
11255	14-07-11	18-07-11	N18	153	0010	03	AXX	BXO						
11256	15-07-11	19-07-11	N09	154	0020	04	DRO	CRO	DRO	BXO				
11257	17-07-11	19-07-11	N20	217	0240	10	DAI	DSI	DSO					
11258	18-07-11	20-07-11	N12	185	0040	05	CRO	HRX						
11259	18-07-11	25-07-11	N25	80	0130	06	DAO	CSO	DSI	DSO	CAO	BXO		
11260	24-07-11	05-08-11	N19	358	0330	12	AXX	DAO	DSI	EAC	EHI	EHO	CSO	HSX
11261	26-07-11	07-08-11	N16	330	0390	16	DHO	DKO	DAI	DKC	EKI	FKC	DKI	CSO
11262	27-07-11	28-07-11	N16	66	0020	10	DSO	AXX						
11263	28-07-11	10-08-11	N16	301	0720	14	DHO	DHI	DKI	EKC	EHC	ESO		
11264	28-07-11	31-07-11	S29	328	0010	03	BXO	AXX	BXO					
11265	30-07-11	02-08-11	N18	30	0010	03	BXO	AXX						
11266	04-08-11	13-08-11	N18	242	0070	09	CRO	BXO	DSO	DSI	BXO	AXX		
11267	05-08-11	09-05-11	S17	243	0060	07	BXO	DSO	BXO	A XX				
11268	06-08-11	10-08-11	N17	224	0010	04	BXO	AXX						
11269	11-08-11	13-08-11	S21	174	0020	04	DRO	BXO	AXX					
11270	11-08-11	13-08-11	N23	136	0020	05	DSO	BXO						

11271	15-08-11	27-08-11	N17	59	0290	11	DSO	ESI	EHC	EKC	EKI	ESI	DSO	CSO
11272	16-08-11	25-08-11	S21	54	0090	07	CRO	CSO	HAX	CAO	DSI	DSO	CRO	AXX
11273	17-08-11	19-08-11	S18	114	0010	05	BXO	AXX						
11274	20-08-11	31-08-11	N19	1	0030	03	HRX	CRO	DSO	HSX	CRO	BXO	HRX	
11275	21-08-11	29-08-11	N07	348	0030	06	CRO	CSO	HSX	A XX	BXO	DSO	CSO	BXO
11276	23-08-11	23-08-11	N20	346	0010	01	AXX							
11277	25-08-11	06-09-11	N17	299	0080	02	HSX	HAX	AXX					
11278	25-08-11	28-08-11	N16	46	0020	03	BXO	CSO	AXX					
11279	25-08-11	03-09-11	N13	292	0120	05	HSX	CSO	HSX					
11280	26-08-11	04-09-11	N17	328	0080	05	CRO	BXO	CRO	CSO	BXO			
11281	28-08-11	07-09-11	S21	259	0160	08	CRO	BXO	CSI	DAO	CAO	CSO	BXO	
11282	30-08-11	05-09-11	N25	297	0170	12	BXO	DSO	ESO	CSO	HSX			
11283	30-08-11	11-09-11	N14	224	0230	13	HSX	CSO	DSO	DSI	EAI	DAI	EAO	DSO
11284	30-08-11	01-09-11	S18	356	0030	04	AXX	BXO	HRX					
11285	31-08-11	31-08-11	N29	334	0010	01	AXX							
11286	03-09-11	04-09-11	N20	304	0080	09	DSO	CSO						
11287	03-09-11	15-09-11	S30	186	0170	09	CAO	CSO	HSX	CSO	DSO	HSX		
11288	05-09-11	06-09-11	N19	188	0010	03	BXO	AXX						
11289	06-09-11	18-09-11	N22	128	0450	07	HSX	CHO	DHO	CKO	CHO	HHX		
11290	09-09-11	17-09-11	S14	138	0070	08	CRO	DRO	DSI	DAO	CRO	AXX	BXO	
11291	10-09-11	17-09-11	N23	156	0090	09	DRO	BXO	CRO	DAO	BXO			
11292	11-09-11	17-09-11	N08	78	0050	06	CAO	CRO	HRX					
11293	12-09-11	17-09-11	N17	139	0050	04	DSO	BXO	CSO	DAO	BXO			
11294	12-09-11	17-09-11	S17	103	0050	06	BXO	CSO	CRO	HRX				
11295	12-09-11	25-09-11	N22	57	0550	13	HSX	CSO	DAI	DHC	EHC	EKC	HSX	
11296	13-09-11	23-09-11	N27	40	0130	09	DSO	DAI	DAO	DSO	HSX	CRO	AXX	
11297	14-09-11	16-09-11	S18	153	0060	09	DAO							
11298	14-09-11	21-09-11	N15	54	0100	09	CSO	DSO	CRO	HRX	DRO	BXO		
11299	16-09-11	23-09-11	S20	63	0110	17	CRO	DSO	DAI	DAO	CRO	BXO	AXX	
11300	18-09-11	21-09-11	N24	93	0090	05	CSO	HSX	CSO					
11301	18-09-11	30-09-11	N17	330	0210	16	DSO	FSO	ESI	CSO	HSX	CRO	HSX	
11302	22-09-11	04-10-11	N13	280	1300	18	EKI	EFC	FKC	FKO	DSO			
11303	24-09-11	26-09-11	S28	36	0070	05	CSI	CSO	HSX					
11304	24-09-11	29-09-11	N13	309	0040	05	BXO	DSI	CRO	BXO				
11305	25-09-11	07-10-11	N12	248	0250	09	HSX	CSO	DSO	DSI	CHI	CHO	CSO	HSX
11306	29-09-11	07-10-11	N14	229	0060	01	HSX	CRO	AXX					
11307	28-09-11	05-10-11	N16	198	0030	11	BXO	CSO	DRO	ERO	HRX	BXO		
11308	01-10-11	02-10-11	S25	184	0030	01	HSX							
11309	02-10-11	14-10-11	N23	156	0170	04	DSO	DAO	CSO	DSO	HSX	CSO	HSX	
11310	03-10-11	09-10-11	S33	195	0045	10	BXO	DAO	DRO	CRO	HRX	AXX		
11311	04-10-11	11-10-11	S12	176	0090	12	DAI	DSO	CSO	HSX				
11312	04-10-11	17-10-11	N23	121	0320	04	HSX	HHX	HSX	CSO	HSX			
11313	05-10-11	17-10-11	S16	117	0180	10	DAI	DSI	DSO	CSO	AXX			
11314	09-10-11	22-10-11	N27	56	0370	07	HSX	CHO	CSO	HHX	HSX			
11315	10-10-11	14-10-11	N19	111	0040	04	DAO	BXO						
11316	11-10-11	21-10-11	S12	49	0340	09	DAI	DKO	DHC	DHI	DAO	DAI	DSO	BXO
11317	11-10-11	22-10-11	S27	38	0090	02	HSX							
11318	12-10-11	18-10-11	N20	94	0050	05	DAO	DSO	CSO	A XX				
11319	12-10-11	22-10-11	N11	51	0420	12	DAI	CSO	ESI	EKI	EHO	CSO		
11320	13-10-11	16-10-11	S21	117	0030	05	BXO	CRO	AXX					
11321	15-10-11	21-10-11	S14	2	0030	06	BXO	CRO	CAO	CRO	BXO	AXX		
11322	15-10-11	18-10-11	S27	104	0010	05	BXO	CSO	HSX					
11323	17-10-11	22-10-11	N24	334	0020	07	AXX	CSO	AXX					
11324	17-10-11	30-10-11	N12	307	0360	15	HAX	EAI	FKC	EAC	EAI	DSO	CSO	
11325	19-10-11	29-10-11	N16	278	0270	08	HAX	DKO	DAI	DAO	DSO	CSO	AXX	
11326	20-10-11	21-10-11	N16	22	0030	03	CSO							
11327	20-10-11	27-10-11	S21	336	0200	11	BXO	DAO	DSO	CSO	HSX			
11328	20-10-11	22-10-11	N17	326	0040	04	BXO	DAO	BXO					
11329	21-10-11	22-10-11	S29	15	0050	03	CSO	AXX						
11330	22-10-11	03-11-11	N06	249	0560	16	DSO	EAO	EHO	FHO	EHI	EKO	DKO	DSO
11331	23-10-11	25-10-11	N08	7	0030	06	BXO	CSO	CRO					
11332	24-10-11	03-11-11	N31	216	0060	02	HSX	HRX	AXX					

11333	27-10-11	02-11-11	N10	243	0090	06	DAI	DSO	CRO	A XX	BXO			
11334	30-10-11	07-11-11	N12	190	0120	08	CSO	DSO	CSO	HSX	CSO			
11335	31-10-11	03-11-11	N12	185	0010	05	BXO							
11336	31-10-11	09-11-11	N12	151	0040	04	AXX	CSO	AXX					
11337	31-10-11	09-11-11	N17	135	0040	05	HSX	BXO	DSO	BXO	AXX			
11338	01-11-11	13-11-11	S13	120	0375	13	DAO	EHI	DSO	ESI	CSO	DAO	CRO	
11339	01-11-11	14-11-11	N19	103	1540	17	DAO	DKC	FKC	DAC	DAI			
11340	05-11-11	16-11-11	S09	73	0090	02	HSX	CAO	HSX					
11341	05-11-11	18-11-11	N10	53	0210	12	HSX	CAO	DSO	CSO	AXX			
11342	05-11-11	17-11-11	N16	65	0310	13	DSO	EAO	ESO	EHO	CSO	HSX		
11343	06-11-11	19-11-11	N28	44	0180	04	HSX							
11344	07-11-11	14-11-11	S18	102	0240	11	AXX	DAO	CRO	DSO	DAI	ESI	CSO	
11345	09-11-11	15-11-11	S26	84	0090	09	CSO	DRO	DSO	CRO	HSX			
11346	12-11-11	23-11-11	S18	339	0140	12	HSX	CSO	DSO	CSO	HSX	CSO		
11347	13-11-11	19-11-11	N08	347	0030	04	CRO	HAX	AXX					
11348	14-11-11	15-11-11	N20	87	0120	10	DSO							
11349	14-11-11	19-11-11	N17	19	0020	05	BXO	CRO	BXO					
11350	14-11-11	19-11-11	N26	308	0170	08	DSO	CSO						
11351	14-11-11	19-11-11	S23	328	0020	04	BXO	AXX						
11352	16-11-11	27-11-11	S24	284	0170	12	CSO	ESO	DSO	CSO	HSX			
11353	17-11-11	27-11-11	N08	267	0040	03	HSX	CRO						
11354	17-11-11	26-11-11	S17	267	0220	10	DAO	DSO	DSI	DSO	CSO	DAO	AXX	
11355	18-11-11	30-11-11	N14	252	0130	07	CAO	HSX	CAO	CSO	HSX			
11356	19-11-11	01-12-11	N16	228	0400	17	HSX	EHC	FKI	EAO	ESI	ESO	CSO	
11357	20-11-11	25-11-11	N18	316	0060	07	DRO	CRO	CAO	DSO	DAI	DSO		
11358	22-11-11	04-12-11	N22	192	0220	11	HSX	DSI	EAI	DSO	DSI	CSO		
11359	24-11-11	26-11-11	N17	297	0050	07	CAO	DAO	CAO					
11360	25-11-11	28-11-11	N17	215	0050	05	CAO	CRO	DSO					
11361	25-11-11	06-12-11	N19	171	0090	08	AXX	CAO	DAO	DSI	DSO	DAO	DAI	BXO
11362	27-11-11	09-12-11	N07	131	0220	11	CSO	DSO	DSI	ESO	DSO	ESO	CSO	HSX
11363	29-11-11	11-12-11	S22	108	0620	11	HSX	DSO	DSI	EHI	DHO	HHX		
11364	29-11-11	11-12-11	N18	104	0060	04	HSX	CSO	DSO	CSO	HSX			
11365	02-12-11	09-12-11	N19	124	0120	10	CSO	DAI	CSO	HSX				
11366	03-12-11	14-12-11	N18	59	0080	07	HSX	DSO	CSO	HSX				
11367	04-12-11	13-12-11	S18	76	0030	05	BXO	DAO	CSO	HSX	BXO	HRX		
11368	05-12-11	06-12-11	S16	49	0020	03	CAO	BXO						
11369	05-12-11	06-12-11	N22	60	0020	03	CAO	BXO						
11370	07-12-11	07-12-11	S24	76	0010	03	BXO							
11371	07-12-11	08-12-11	N09	62	0010	01	HRX							
11372	07-12-11	13-12-11	N08	43	0040	09	BXO	DSO	BXO					
11373	08-12-11	09-12-11	S31	99	0020	06	DRO	BXO						

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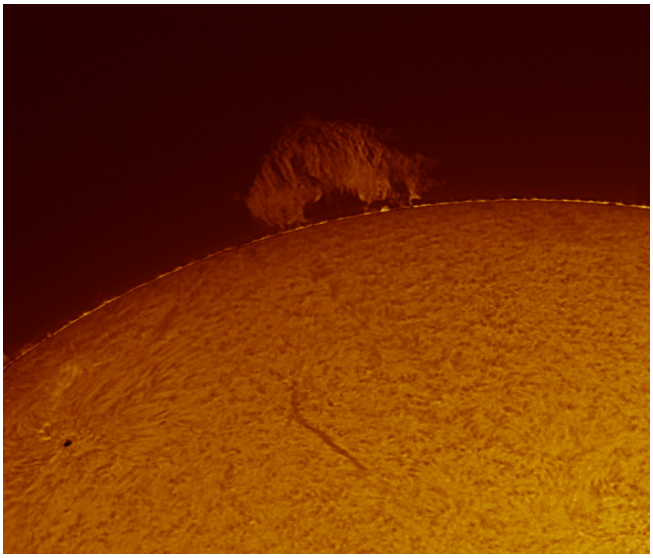
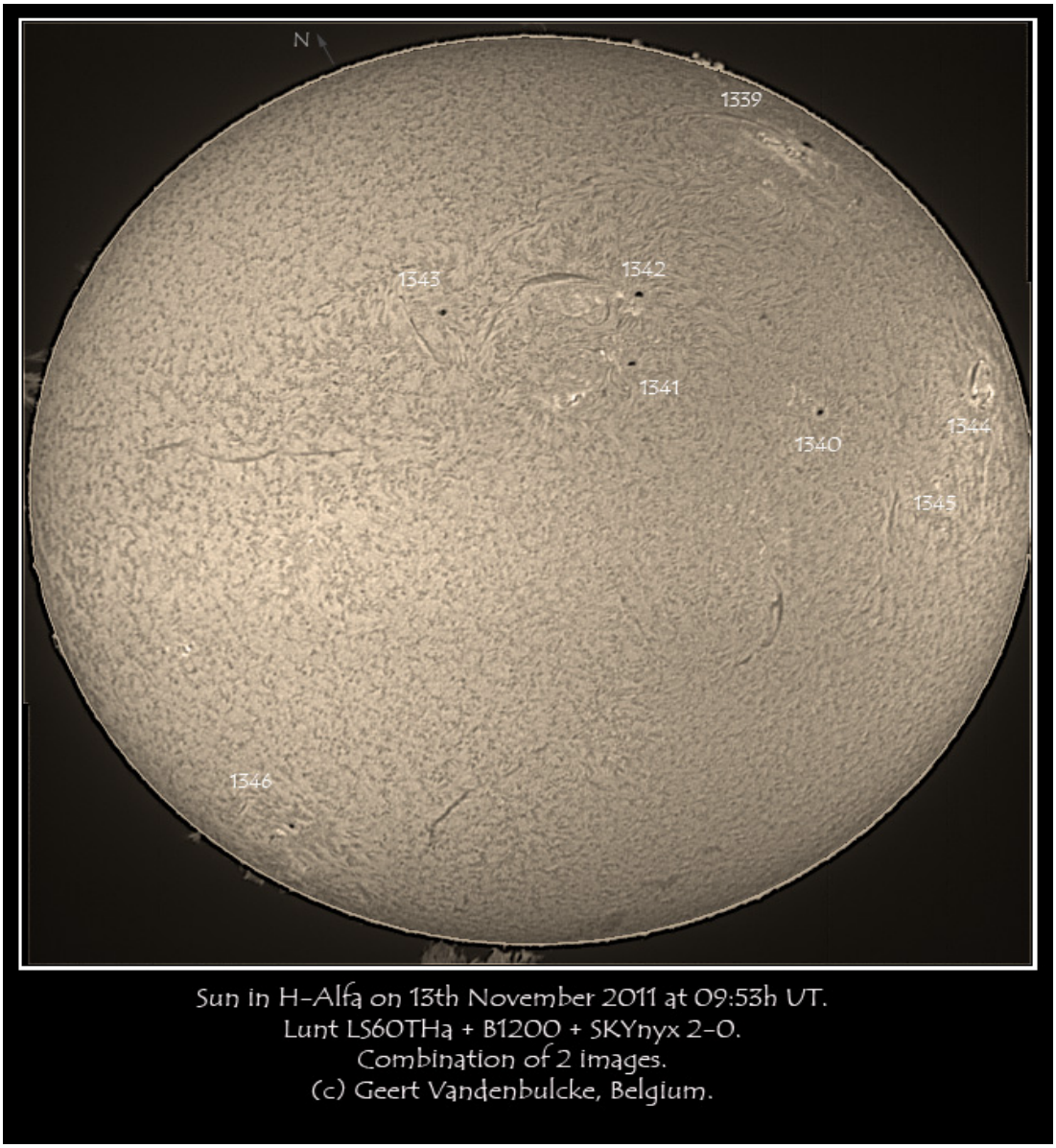
E.Veldhuis





Sun in H-Alfa on 13th November 2011 at 09:53h UT.
Lunt LS60THa + B1200 + SKYnyx 2-0.
Combination of 2 images.
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