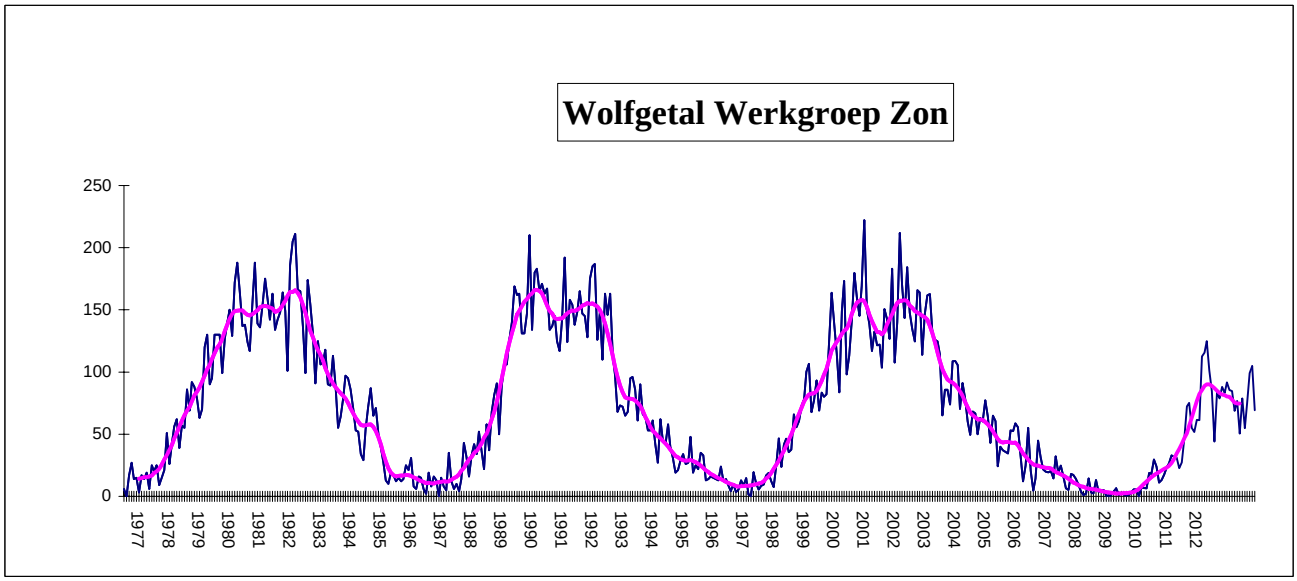
NIEUWSBRIEF V.V.S. WERKGROEP ZON

Waarnemingsresultaten en nieuws voor zonnewaarnemers	Jaargang : 18	Nummer: 208	Juni 2013

Franky Dubois Poelkapellestraat 57 Langemark 8920

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





Gemiddelden werkgroep zon Juni 2013

Groepen :	N	**1,53**	Wolfgetal :	N	**25,6**	RE'	**428**
	S	**3,50**		S	**43,7**	CV	**87,2**
	N+S	**5,03**		N+S	**69,3**	SN	**67,2**
396 waarnemingen	25 waarnemers					IS	**30,4**

Wolfnumbers Belgian Solar Observers

Month: **June 2013**

	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	41										4	16	56	4	7	47	4	16	56	4	17	57				4	10	50	4	9	49				1
2	53										5	19	69	5	23	73	4	25	65	4	29	69	5	22	72	5	23	73	4	17	57	5	18	68	2
3	44										4	23	63	3	22	52	3	18	48	3	19	49	3	23	53	3	20	50	3	15	45				3
4	35	3	18	48	4	10	50				4	19	59	3	11	41	3	15	45				3	12	42	3	17	47	4	13	53				4
5	54	6	35	95	5	14	64				5	21	71	5	22	72	5	29	79				5	25	75	4	27	67	5	20	70	6	33	93	5
6	52										4	33	73	4	34	74	4	25	65	4	46	86	4	33	73	4	32	72				4	31	71	6
7	33				1	9	19				4	22	62	1	12	22	2	15	35	3	31	61	3	27	57	3	25	55	2	12	32	2	14	34	7
8	18	1	15	25							3	17	47				1	11	21	1	19	29	1	11	21	1	13	23	1	9	19	1	14	24	8
9	24										2	18	38	2	14	34										2	20	40	1	6	16				9
10	18										1	7	17	1	10	20	1	8	18							1	14	24	1	7	17				10
11	11										2	5	25	1	4	14										1	5	15	1	5	15				11
12	20										2	9	29	2	6	26	2	6	26							2	7	27							12
13	35										3	15	45	4	17	57										3	19	49	2	13	33				13
14	44	4	24	64							5	21	71	4	21	61	3	17	47							3	15	45	2	9	29	4	20	60	14
15	65	8	21	101							8	31	111	6	24	84	6	21	81	6	24	84	5	24	74	8	20	100	5	19	69	7	33	103	15
16	71										17	40	210	6	32	92				6	34	94	6	21	81	7	26	96	6	17	77				16
17	76										6	42	102	6	31	91	6	47	107	6	40	100	6	62	122	6	44	104	6	25	85	6	46	106	17
18	77										6	50	110	6	43	103	5	53	103	5	61	111	5	52	102	5	39	89	5	25	75	6	54	114	18
19	84	6	56	116							6	56	116	6	46	106	5	54	104				6	49	109	6	37	97	6	23	83	6	67	127	19
20	88										7	42	112	7	36	106	6	45	105				7	57	127	7	53	123	6	36	96	7	51	121	20
21	95													9	49	139	6	39	99							7	48	118							21
22	94										8	46	126	8	34	114										7	39	109							22
23	81										8	34	114	7	31	101										7	37	107				8	41	121	23
24	74													8	32	112	5	21	71							5	26	76							24
25	53	6	17	77							9	24	114	8	25	105	5	15	65				4	8	48	5	14	64	4	8	48	7	16	86	25
26	41	5	15	65							4	17	57	6	14	74	4	15	55							4	11	51	3	5	35				26
27	42										4	17	57	5	26	76	3	7	37	3	19	49	4	17	57	3	14	44	4	9	49	4	21	61	27
28	51										0	0	0													5	16	66							28
29	47										5	22	72	5	22	72	3	15	45							3	16	46	3	12	42	5	30	80	29
30	55										5	23	73	4	24	64							4	23	63	3	21	51	3	13	43	4	20	60	30
																																			31
#	**52,5**			**73,9**			**44,3**			#####			**75,0**			**73**			**62,6**			**71,7**			**73,5**			**65,9**			**49,4**			**83,1**	

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	41	4	18	58				5	13	63	5	16	66	4	20	60							4	13	53										1
2	53	5	25	75	4	20	60	5	19	69	6	27	87	5	22	72	4	17	57				5	20	70				4	16	56	5	21	71	2
3	44	4	33	73				3	20	50																4	16	56				3	19	49	3
4	35	4	24	64	3	13	43	3	13	43	4	18	58							3	16	46	4	16	56	5	11	61				3	15	45	4
5	54				5	17	67	4	17	57				8	58	138				6	33	93	5	24	74	7	26	96				5	30	80	5
6	52	4	40	80	4	32	72	4	31	71	6	36	96	5	49	99				4	42	82	4	24	64	5	26	76				4	32	72	6
7	33	2	17	37	2	18	38	2	19	39				6	48	108	2	16	36	3	20	50	2	20	40	2	12	32	2	15	35	3	16	46	7
8	18	2	16	36	1	11	21	1	13	23	1	15	25	3	12	42	1	15	25	1	16	26	1	15	25	1	12	22	1	14	24	2	16	36	8
9	24	2	22	42							2	23	43	3	18	48				2	19	39				3	21	51							9
10	18	2	17	37				1	8	18										1	6	16	1	12	22	1	8	18				1	8	18	10
11	11	1	5	15				1	4	14				2	7	27	1	13	23																11
12	20																2	8	28																12
13	35	3	21	51				3	23	53										3	19	49	4	23	63	4	18	58							13
14	44	5	25	75							4	22	62				3	21	51	5	33	83	3	21	51	5	21	71	3	19	49	4	11	51	14
15	65	6	28	88				5	14	64	7	22	92							8	34	114				7	23	93							15
16	71	6	27	87				6	21	81													6	35	95	7	32	102							16
17	76	6	36	96							7	32	102	7	63	133	6	25	85	6	39	99	6	45	105	6	49	109	6	81	141	6	38	98	17
18	77	6	35	95							6	43	103	6	87	147				5	55	105	5	43	93	6	53	113				5	48	98	18
19	84	6	40	100																			6	50	110	7	60	130							19
20	88	7	42	112										7	44	114				7	50	120	7	50	120	10	54	154							20
21	95	7	36	106				8	40	120							7	37	107				8	45	125	10	57	157	7	34	104				21
22	94	7	41	111							7	45	115							8	42	122	7	40	110										22
23	81	7	32	102							8	46	126							8	34	114	8	40	120										23
24	74	6	25	85																															24
25	53	5	18	68							4	19	59							7	22	92	6	19	79	8	25	105							25
26	41	3	13	43										4	13	53				5	15	65	5	17	67	7	22	92							26
27	42	3	17	47							4	20	60							4	18	58	5	23	73	5	16	66							27
28	51	3	16	46																															28
29	47	3	18	48																6	28	88				6	34	94							29
30	55	3	14	44	4	18	58	6	25	85	5	31	81	6	24	84				6	27	87	4	20	60	6	33	93							30
																																			31
#	**52,5**			**68,6**			**51,3**			**56,7**			**78**			**86,5**			**51,5**			**77,4**			**76,1**			**84,0**			**68**			**60,4**	

	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	
1	41				3	7	37																									1
2	53				4	15	55	5	24	74				4	27	67																2
3	44				3	16	46																									3
4	35				3	10	40																									4
5	54				5	20	70							4	26	66																5
6	52				4	22	62	4	29	69				4	33	73																6
7	33				3	14	44	3	27	57				2	17	37																7
8	18				1	10	20	1	13	23				1	11	21																8
9	24				2	13	33	1	17	27																						9
10	18							1	11	21																						10
11	11				1	4	14																									11
12	20				2	5	25																									12
13	35																															13
14	44				3	6	36																									14
15	65				5	16	66	6	18	78																						15
16	71				6	14	74																									16
17	76				6	35	95																									17
18	77				5	39	89																									18
19	84																															19
20	88				7	38	108																									20
21	95																															21
22	94				7	38	108	8	54	134																						22
23	81				7	32	102	7	31	101																						23
24	74																															24
25	53				3	10	40																									25
26	41				3	5	35																									26
27	42																															27
28	51																															28
29	47				3	12	42																									29
30	55				4	20	60	5	22	72																						30
																																31
#	**52,5**			######			**56,6**			**65,6**			######			**52,8**			#####			#####			#####			#####	#####	#####	#####			#####	

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: 'June 2013

	GROUPS			WOLFNUMBER							
Day	N	S	N+S	N	S	N+S	RE'	CV	SN	IS	OBS
1	1	3	4	12,4	41,9	**54,3**	166	25,8	37,667	16,5	12
2	2	3	5	30,5	37,5	**68,0**	291	55,8	45,8	25,0	21
3	1	2	3	19,3	33,5	**52,8**	427	142,8	59	25	12
4	1	3	4	14,1	35	**49,5**	317	131,4	43,3	14,0	17
5	3	3	6	43,2	36	**79,3**	434	137,7	70,0	43	19
6	3	2	5	51,9	23	**75,3**	512	143,4	79,4	42	19
7	2	1	3	34,2	10	**44,4**	382	96,5	71,2	28	23
8	1	1	2	22,9	3	**26,3**	275	46,3	34	15	23
9	1	1	2	25,7	11,7	**37,4**	355	25,8	39,0	18	11
10	1	0	1	21	0	**21**	158	13,7	17,5	11	12
11	1	1	2	14,6	3	**18**	61	12,6	14,3	7	10
12	1	1	2	15,1	11,7	**26,8**	103	17,0	21,0	7,0	6
13	1	3	4	3,0	48	**50,9**	287	25,0	31,0	19,0	9
14	1	3	4	12,2	44,4	**56,6**	359	42,5	44,7	24,0	16
15	1	7	8	14,0	73,6	**87,6**	360	103,1	82	33	16
16	1	6	7	12,3	76,7	**89,0**	356	146,4	99	37	12
17	1	5	6	37,7	66,8	**104,4**	682	196,9	139	52	18
18	1	5	6	30,1	73,0	**103,1**	977	168,1	119,3	66,0	16
19	2	4	6	43	66,1	**108,9**	1005	169,7	115,7	62	11
20	2	5	7	39,0	77,7	**116,8**	925	250,8	113	45	13
21	2	6	8	65,2	54,2	**119,4**	963	119,0	112,0	55	9
22	2	6	8	36,4	80,1	**116,6**	786	110,0	107,5	39	10
23	2	6	8	24,5	86,3	**110,8**	620	97,6	104,0	41,0	10
24	1	6	7	15,6	70,4	**86,0**	409	77,0	98,0	37,0	4
25	2	6	8	16,4	58,6	**75,0**	316	55,1	62,7	25,5	14
26	2	4	6	16,1	41,5	**57,7**	224	30,6	41	17	12
27	1	3	4	11	45	**56**	241	48	44,0	23,5	13
28	1	3	4	22,9	33,1	**56,0**	228	40			2
29	2	3	5	27,0	35,9	**62,9**	327	34,0	52,7	29,5	10
30	3	3	6	35,9	31,5	**67,4**	294	53,5	51,6	26,0	16
	1,53	**3,50**	**5,03**	**25,6**	**43,7**	**69,3**	**428,1**	**87,2**	**67,2**	**30,4**	**396**

Monthly mean: **69,3** Covering: **30/30** Spotless days: **0**

Observations: **396** Number of observers: **25**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

Poekapellestraat 57

B8920 Langemark

Belgium

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Observers:

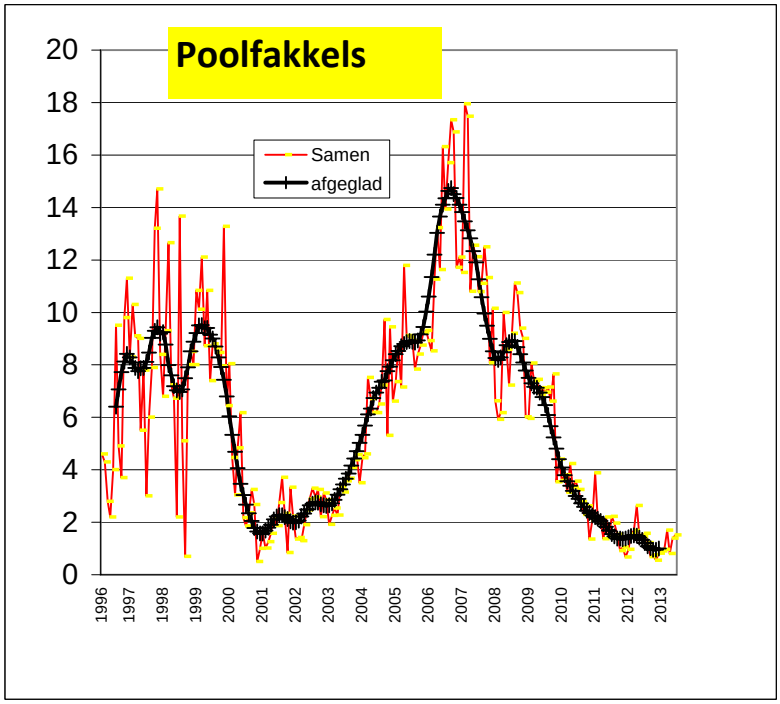
E.De Ceuninck ; J.Janssens ; Publ obs Mira ; J.Bourgeois ; R.Dezeure ; F.Feys
H. De Backer; F.Dubois ; B.Taillieu ; J.Carels ; E.Neven ; R.De Laet ; M.Decks ; G.Verbanck
L.Meeus ; O.Steen ; KSB ; L.Claeys ; B.Thooris ; J.Bonse ; G.Gubbels ; J.De Wit
J.Claes ; R.Verboven ;F. Van Loo ; A.T.Son ; H.Coeckelberghs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

Belgian Solar Observers

Polar Faculae

Month: June 2013

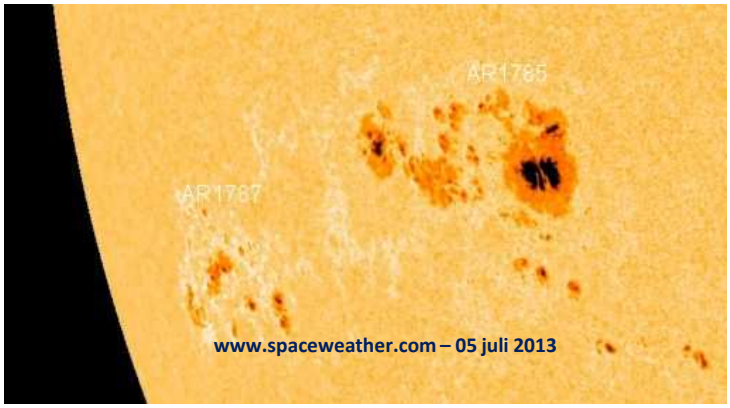
Date	Dubois 125mm F20			Steen 102mm F15			T.Spaninks 127mm F15			G.Gubbels 114mm F7,8			J.Carels			Janssen 200mmF10		
	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q	North	South	Q
1										0	1	3.5						
2	2	1	4	0	0	3,5				1	2	4.5				0	2	4
3																		
4																		
5	4	2	4	1	0	3,5				1	3	5	3	1	4	0	0	5
6	1	1	4	1	0	3,5				0	1	4	1	1	4			
7				1	2	3,5				1	2	5				0	0	4
8							0	0	3	0	1	3				0	0	3
9							0	0	3	0	1	2						
10							0	0	3									
11										1	2	5				0	1	4
12																		
13																		
14	0	0	4				0	0	4									
15																		
16																0	0	3
17										0	1	2.5						
18										2	0	4.5						
19				0	0	3,5												
20				0	0	3,5				1	1	2.5						
21																		
22				0	0	3,5										3	1	3
23																		
24																		
25	2	1	4	1	0	4,0	0	0	3									
26	1	1	4	0	0	4,0				0	1	2.5						
27	1	1	4				0	0	4									
28																		
29																		
30	0	3	4							0	1	4						
	1,38	1,25		0,44	0,22		0,0	0,0		0,5	1,3		2,00	1,00		0,43	0,57	

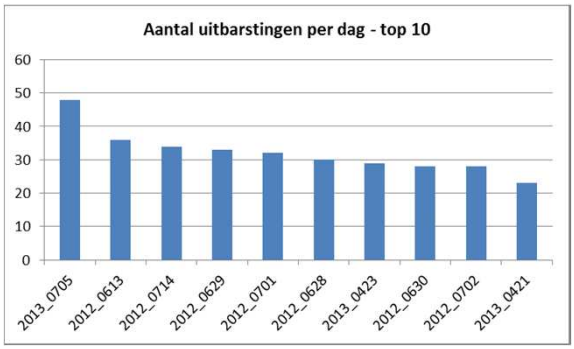


N.O.A.A.	ZICHTBAAR		N.O.A.A.		MAX	MAX	classificatie							
Regio	**van**	**tot**	**breedte**	**lengte**	**AREA**	**LENGTE**	**Macintosh**							
11738	03-05-13	13-05-13	N15	87	0070	10	HSX	CSO	CAO	CAI	BXO	AXX		
11739	03-05-13	12-05-13	N12	78	0150	10	DAC	DAI	DAO	CAO	BXO	AXX		
11740	04-05-13	12-05-13	S21	72	0030	04	HSX	HRX	CAO	HSX	BXO	AXX		
11741	06-05-13	14-05-13	S21	48	0050	06	BXO	AXX	BXO	CAO	BXO			
11742	09-05-13	14-05-13	N30	19	0100	09	DAI	DAO	CAO	HRX				
11743	09-05-13	18-05-13	N23	12	0120	10	HRX	CAO	BXO	DAO	CSO	DAO	AXX	
11744	09-05-13	20-05-13	N05	359	0190	12	DAO	DAI	CAO	DAO	CAO			
11745	10-05-13	23-05-13	N14	334	0600	13	HRX	DKI	EKC	CKI	DAO	CAO	AXX	
11746	11-05-13	23-05-13	S27	334	0270	08	DSO	DHI	DSI	CSIO	DSO	CSO	HSX	
11747	12-05-13	19-05-13	S17	338	0100	08	BXO	CAO	DAO	CAO	HRX			
11748	13-05-13	25-05-13	N12	294	0310	11	DKI	DAI	DAO	FAO	EAI	DAO	CRO	AXX
11749	15-05-13	18-05-13	S22	27	0030	05	BXO	CEO	BXO					
11750	15-05-13	20-05-13	S10	360	0100	07	BXO	CAO	DAO	DAI				
11751	15-05-13	17-05-13	S23	322	0010	03	BXO	AXX						
11752	16-05-13	19-05-13	N18	1	0030	05	CRO							
11753	20-05-13	25-05-13	N05	219	0060	09	DSO	DRO	CRO	BXO	AXX			
11754	20-05-13	26-05-13	S19	231	0040	06	AXX	CRO	DRO	CRO				
11755	21-05-13	30-05-13	N12	202	0290	10	DSO	DSI	DHI	DAI	DAO	CSO	CRO	AXX
11756	21-05-13	31-05-13	S20	214	0290	17	DAO	DAI	EHI	FSO	CSO	HSX		
11757	24-05-13	03-06-13	S09	147	0120	05	HSX	HRX	AXX					
11758	26-05-13	31-05-13	S23	125	0030	01	AXX	HSX	AXX					
11759	27-05-13	28-05-13	S07	128	0010	03	BXO	HSX						
11760	29-05-13	03-06-13	N12	99	0020	04	AXX	BXO	HRX	CSO	HRX	AXX		
11761	29-05-13	03-06-13	S17	112	0010	05	AXX	HSX	CRO	BXO				
11762	01-06-13	07-06-13	S29	130	0300	11	DAO	DAI	DKI	DKO	EKO	CKO	DAI	
11763	01-06-13	05-06-13	S14	124	0020	08	CRO	BXO	HSX					
11764	02-06-13	07-06-13	N13	131	0130	06	DAO	DSI	DSO	CSO	HSX			
11765	05-06-13	12-06-13	N08	52	0200	10	CRO	CSI	DAI	DAO	HSX			
11766	05-06-13	07-06-13	N18	111	0020	03	BXO	AXX						
11767	09-06-13	09-06-13	S17	334	0010	05	BXO							
11768	12-06-13	17-06-13	S11	354	0320	07	DAO	DAI	DKO					
11769	13-06-13	16-06-13	S23	260	0020	07	BXO	CRO	HSX					
11770	13-06-13	23-06-13	s14	254	0080	02	HSX							
11771	14-06-13	15-06-13	S12	241	0020	01	HRX	AXX						
11772	14-06-13	25-06-13	s20	254	0260	09	BXO	CRI	DAI	DAC	DKO	CAO	HAX	
11773	15-06-13	23-06-13	N03	235	0120	10	HRX	CAO	DAI	CAI	HAX	DSO	BXO	
11774	15-06-13	26-06-13	S18	242	0080	04	BXO	CRO	CSO	HAX	CAO	HRX	CAO	AXX
11775	15-06-13	27-06-13	S26	225	0410	10	HAX	DKO	DKC	DHC	DSC	DSO	CSO	HSX
11776	18-06-13	25-06-13	N11	252	0220	10	AXX	DAO	DAI	DSO	CSO			
11777	20-06-13	02-07-13	S15	161	0200	06	HSX	CAO	CSO	HSX				
11778	22-06-13	01-07-13	S17	125	0110	12	HSX	CAO	ESO	CSO	CRO	BXO		
11779	25-06-13	28-06-13	N15	111	0010	03	BXO	AXX						
11780	26-06-13	03-07-13	S08	141	0060	06	BXO	AXX	DRI	DSO	HRX			
11781	28-06-13	04-07-13	N22	128	0140	09	CRO	DAI	DSI	DSO	AXX			
11782	28-06-13	30-06-13	S14	80	0010	02	HRX	AXX						
11783	30-06-13	02-07-13	N05	42	0010	04	BXO	HRX						
11784	01-07-13	09-07-13	S16	52	0080	09	BXO	CSO	DSI	DAI	CAI	BXO	AXX	
11785	01-07-13	13-07-13	S12	8	0720	16	HAX	FHO	FKC	EKC	EAI	ESO	CAO	
11786	02-07-13	03-07-13	S31	55	0030	02	CRO	HSX						
11787	03-07-13	14-07-13	S15	348	0230	11	DSO	EAI	DAO	EAC	EAI	ESI	EAO	HAX
11788	05-07-13	06-07-13	S15	15	0010	05	BXO	AXX						
11789	07-07-13	12-07-13	S24	343	0010	06	BXO	AXX						
11790	07-07-13	07-07-13	S15	324	0010	02	AXX							
11791	12-07-13	19-07-13	S14	255	0130	07	DSO	DAO	DAI	DAO	CAO	AXX		
11792	12-07-13	15-07-13	N02	244	0010	04	BXO	AXX						

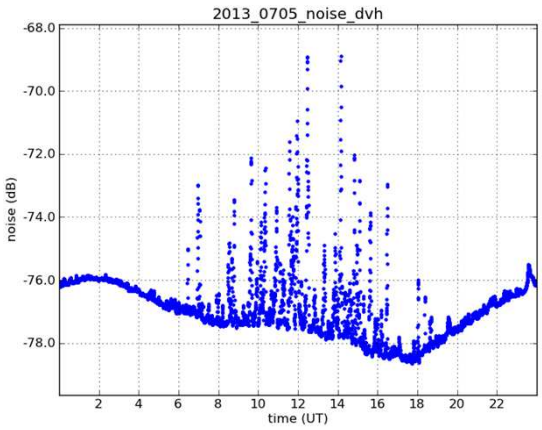
RADIO-UITBARSTINGEN ZON 05 JULI 2013

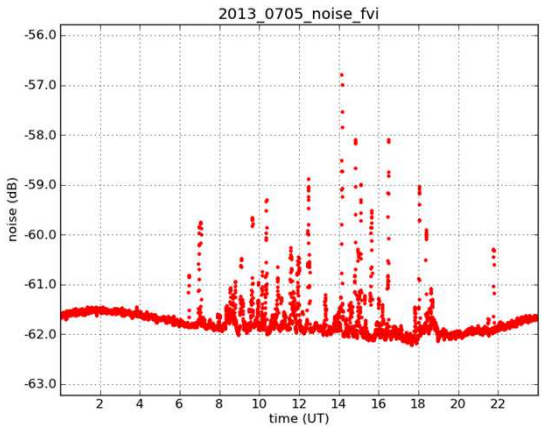
Dit was de meeste actieve dag sedert ik hiermee gestart ben (midden 2010), 48 uitbarstingen werden geregistreerd, meestal gerelateerd met zonnevlekgroepen 11785 en 11787.





Hieronder een overzicht van de ruisgrafiek van de ganse dag van mezelf en van Felix. Meer informatie op http://www.matjer.net

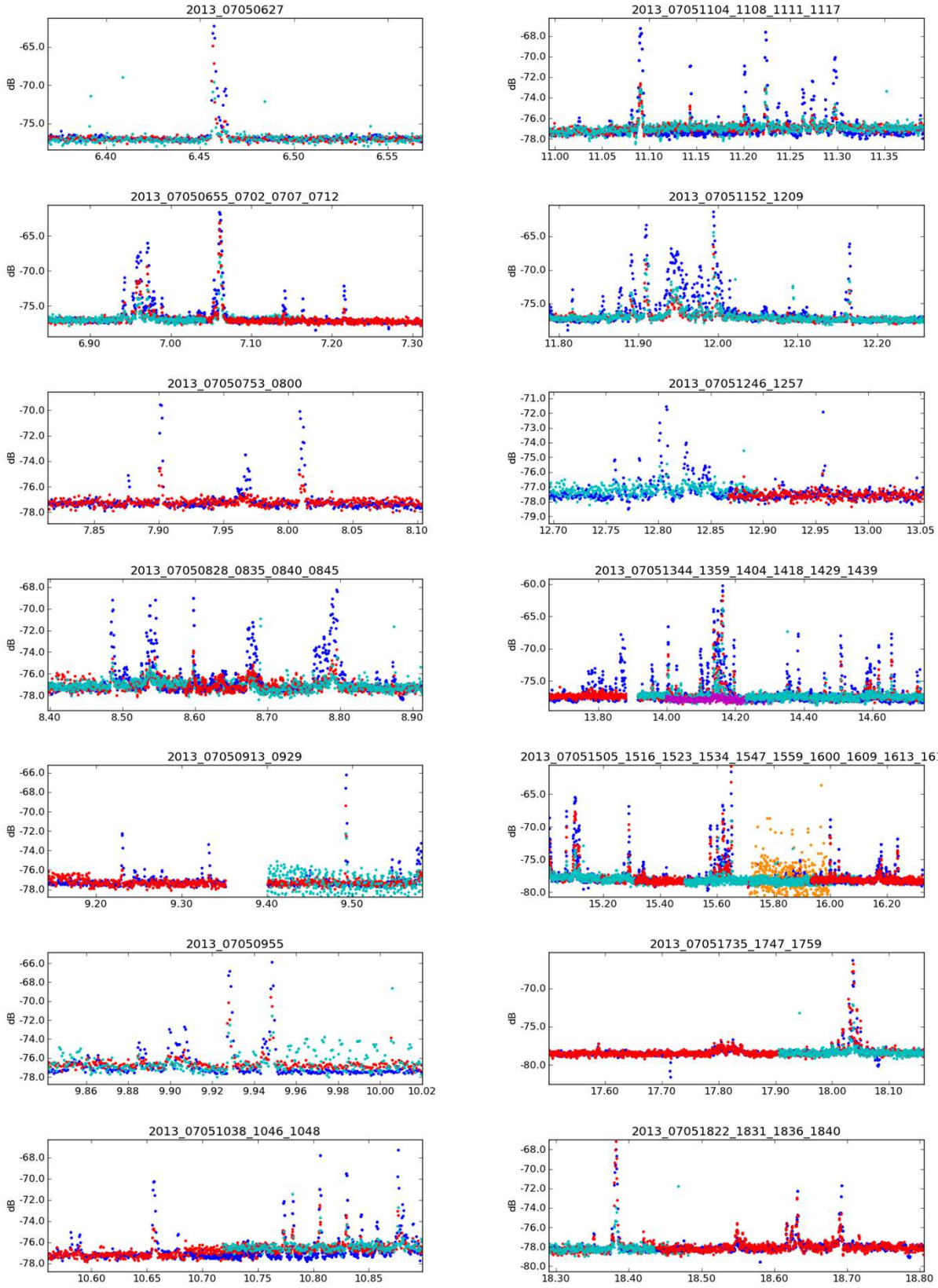




Op de volgende bladzijden alle registraties in detail. Ik combineer hiervoor intussen 6 gegevensstromen afkomstig van 4 personen.

Dirk Van Hessche	49.99 MHz
Felix Verbelen	49.99 MHz
Felix Verbelen	49.97 MHz
Felix Verbelen	143.05 MHz
Joseph Welkenhuyzen	49.99 MHz
Staf Rans	49.99 MHz

6/07/2013 – Dirk Van Hessche - met dank aan Felix Verbelen, Joseph Welkenhuyzen en Staf Rans voor ter beschikking stellen van gegevens



Tijdsschaal in uur en fracties van een uur (UT)