

# *Annual Final Report*

## *AFR*

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### **CV-Helios Network Annual Final Report for 2006**

In the year 2006, Solar Cycle no. 23

The Average CV was: 21,0 and the Average 6-rot. Smoothed CV was: 22,9

The Average CV-USAF was: 16,7

giving an Estimated STDEV of: 6,5

CV-Helios Network observed on 365 days

CV-Helios Network had a total of 7220 observations in 2006

CV-Helios Network have received 435 observation entries in the year 2006

CV-Helios Network's observers had an average of 15,5 observations per day

This Annual Final Report contain results from 46 CV-observers

A sincere thanks to all observers for their fine contributions in the passed year.

CV-Helios Network 01. April 2007



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Kjell Inge Malde  
Director



## CV-Helios Network Annual Final Report for 2006

Collated results CV for the year 2006												
CV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	28,50	0,13	0,12	54,33	49,36	1,09	40,15	2,78	27,17	31,15	40,83	43,47
2	32,67	0,14	0,27	74,46	39,56	0,05	41,42	2,85	9,91	17,06	50,00	41,73
3	18,67	0,00	0,05	90,21	45,92	1,00	38,81	1,23	0,00	12,44	48,74	32,46
4	16,00	0,00	1,27	85,92	48,56	23,67	37,48	0,00	0,80	12,68	53,56	35,24
5	9,00	0,00	5,96	84,74	27,38	29,45	50,84	8,14	18,04	13,47	37,64	65,80
6	9,38	0,07	0,80	82,95	22,62	39,60	56,59	0,11	33,59	12,11	29,70	61,33
7	9,06	0,73	0,73	78,00	23,46	56,70	56,00	0,05	45,92	10,28	29,75	46,67
8	8,68	5,14	0,33	64,19	34,85	62,62	52,59	3,33	47,38	6,43	57,63	39,75
9	7,64	4,25	0,06	35,75	32,87	50,80	34,76	18,57	53,00	4,80	44,52	38,29
10	6,16	1,00	0,00	37,41	22,41	39,50	6,50	43,81	40,40	2,09	38,87	39,35
11	5,38	0,40	0,08	39,64	13,21	27,14	3,79	45,13	30,45	0,19	40,76	40,62
12	1,40	0,20	7,73	39,44	5,19	17,41	0,81	42,22	29,22	0,00	42,62	39,92
13	0,00	1,07	5,41	40,40	3,05	12,50	0,38	42,52	28,27	0,16	52,82	39,07
14	0,86	2,00	2,65	24,57	0,13	10,17	5,04	45,24	16,42	0,00	54,50	34,73
15	24,50	9,62	3,57	12,95	0,15	8,70	8,00	45,71	16,04	0,22	49,90	39,42
16	34,62	11,00	5,92	8,83	0,04	0,79	10,43	47,00	14,71	0,16	56,55	39,37
17	34,56	3,94	5,73	4,00	0,00	4,00	10,12	48,79	13,12	0,00	55,71	29,25
18	23,38	0,84	12,15	1,75	0,60	5,68	16,64	48,72	5,90	0,10	52,79	3,17
19	29,54	1,05	17,15	1,71	4,52	12,22	10,93	40,74	7,18	2,17	46,19	0,00
20	28,14	1,50	18,12	10,43	15,19	5,91	3,08	36,81	5,36	5,67	41,09	0,00
21	38,09	2,54	20,96	10,14	19,59	1,05	0,52	54,14	8,44	12,19	3,21	0,00
22	35,29	0,00	20,19	0,48	18,65	0,06	8,70	32,27	8,83	24,71	2,88	0,00
23	41,95	0,00	11,21	19,88	27,77	0,38	19,04	30,52	5,36	28,43	4,33	0,08
24	35,24	0,00	5,27	39,88	32,73	0,00	18,00	33,88	3,17	20,00	0,56	0,71
25	29,36	0,05	0,82	61,88	30,47	13,37	17,59	37,33	0,74	5,37	19,64	4,08
26	25,24	0,44	0,05	74,11	24,67	15,41	11,04	41,68	0,53	0,00	24,94	4,53
27	16,83	2,50	0,95	62,82	32,55	20,45	10,58	36,24	0,71	1,74	32,21	1,35
28	1,27	1,79	9,64	54,53	29,29	41,06	9,59	31,24	10,47	2,18	37,29	0,29
29	0,44		35,92	52,94	25,63	50,85	9,54	26,35	19,09	0,72	39,11	1,07
30	0,00		37,37	49,57	17,68	45,29	13,14	17,00	32,27	9,45	48,60	12,58
31	0,00		41,38		6,86		5,35	31,00		31,47		28,44
<b>20,70</b>	<b>17,80</b>	<b>1,80</b>	<b>8,77</b>	<b>43,26</b>	<b>21,13</b>	<b>19,90</b>	<b>19,59</b>	<b>28,88</b>	<b>17,75</b>	<b>8,63</b>	<b>37,90</b>	<b>24,60</b>

## CV-Helios Network Annual Final Report for 2006

Collated results Observers for the year 2006													
Obsrvrs.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	6	15	25	18	25	23	26	18	24	20	23	15	
2	9	14	22	24	25	22	24	26	22	17	12	11	
3	9	10	19	19	25	24	26	13	18	18	23	13	
4	9	15	22	25	25	21	25	23	20	19	18	17	
5	8	19	27	19	26	22	25	21	24	15	11	15	
6	13	14	25	19	26	25	22	19	17	18	10	18	
7	16	11	22	25	28	27	21	21	24	18	16	12	
8	19	14	21	26	26	21	22	24	21	23	16	12	
9	22	20	17	24	23	25	21	21	25	20	21	17	
10	19	20	23	17	22	26	24	21	25	22	15	20	
11	13	20	25	22	24	28	24	24	22	21	17	13	
12	10	20	30	16	26	27	21	27	23	21	21	12	
13	14	14	27	15	22	20	24	21	22	19	11	15	
14	14	20	23	23	23	18	23	21	26	16	10	15	
15	22	13	23	21	26	20	26	17	23	23	20	19	
16	13	11	12	18	24	19	28	23	24	19	11	19	
17	9	16	15	25	22	22	26	28	26	23	17	16	
18	8	19	20	20	15	22	22	25	20	20	19	12	
19	13	22	27	21	23	23	28	27	22	18	16	11	
20	14	14	25	23	21	22	24	21	22	18	11	18	
21	11	13	23	21	22	21	23	22	25	16	14	17	
22	17	10	26	25	23	16	23	22	23	17	16	17	
23	21	17	29	24	22	16	24	21	22	14	15	13	
24	17	21	26	25	22	24	27	25	24	15	16	14	
25	11	21	17	24	19	19	29	24	19	19	14	13	
26	17	18	19	18	15	22	26	28	19	20	16	19	
27	18	20	21	17	11	20	24	25	17	19	14	17	
28	22	19	22	19	24	17	29	17	17	17	14	14	
29	18		25	18	16	20	26	20	22	18	18	14	
30	12		19	21	25	24	21	21	22	20	15	19	
31	17		21		22		20	21		19		25	
<b>19,78</b>	<b>14,23</b>	<b>16,43</b>	<b>22,52</b>	<b>21,07</b>	<b>22,52</b>	<b>21,87</b>	<b>24,32</b>	<b>22,16</b>	<b>22,00</b>	<b>18,77</b>	<b>15,67</b>	<b>15,55</b>	

## CV-Helios Network Annual Final Report for 2006

Collated results CV-USAF for the year 2006												
USAF-CV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	17,32			39,37	34,91	0,02	26,89	0,51	16,27	19,43	27,47	29,74
2	20,66			58,21	26,39		27,97	0,54	4,12	8,78	35,48	28,24
3	9,91			73,66	31,87	0,00	25,75	0,05		5,69	34,36	20,49
4	8,05		0,06	69,40	34,20	13,58	24,63			5,84	38,67	22,76
5	3,59		1,93	68,23	16,44	18,07	36,23	3,10	9,47	6,35	24,77	49,97
6	3,81			66,47	12,79	26,42	41,42		21,41	5,48	18,27	45,79
7	3,62			61,64	13,43	41,53	40,89		31,87	4,34	18,31	32,53
8	3,40	1,53		48,46	22,44	46,99	37,80	0,73	33,16	2,17	42,37	26,55
9	2,82	1,12		23,19	20,82	36,19	22,37	9,84	38,17	1,37	30,65	25,32
10	2,03	0,00		24,58	12,64	26,34	2,21	30,03	27,10	0,28	25,80	26,21
11	1,64			26,45	6,18	16,25	0,92	31,18	18,87		27,41	27,29
12	0,09		2,87	26,29	1,55	9,02		28,66	17,88		29,01	26,69
13		0,01	1,66	27,10	0,62	5,73		28,92	17,14		38,00	25,97
14		0,25	0,47	14,26		4,28	1,48	31,28	8,34		39,52	22,35
15	14,21	3,95	0,82	6,02		3,41	3,02	31,69	8,08		35,39	26,27
16	22,25	4,78	1,91	3,49			4,43	32,82	7,17		41,38	26,23
17	22,20	0,98	1,82	1,01		1,01	4,25	34,40	6,12		40,62	17,91
18	13,36		5,50	0,18		1,79	8,48	34,34	1,90		37,98	0,66
19	18,14	0,01	8,84	0,17	1,24	5,55	4,74	27,39	2,57	0,30	32,11	
20	17,03	0,11	9,52	4,44	7,50	1,90	0,63	24,07	1,63	1,78	27,69	
21	25,15	0,43	11,56	4,26	10,57	0,01		39,19	3,27	5,53	0,68	
22	22,81		11,01		9,90		3,41	20,34	3,49	14,37	0,55	
23	28,43		4,91	10,78	16,74		10,18	18,93	1,63	17,26	1,15	
24	22,76		1,59	26,66	20,71		9,44	21,65	0,66	10,87		
25	18,00			46,29	18,89	6,29	9,15	24,51		1,64	10,61	1,04
26	14,78			57,88	14,34	7,64	4,81	28,20			14,55	1,24
27	8,62	0,42		47,18	20,56	11,19	4,53	23,60		0,17	20,29	0,07
28	0,06	0,19	3,96	39,55	17,94	27,67	3,93	19,50	4,46	0,31	24,47	
29			23,33	38,12	15,08	36,24	3,90	15,64	10,21		26,01	0,01
30			24,54	35,10	9,21	31,32	6,14	8,74	20,34	3,85	34,23	5,78
31			27,94		2,40		1,63	19,31		19,69		17,27
<b>16,54</b>	<b>12,49</b>	<b>1,06</b>	<b>7,59</b>	<b>32,70</b>	<b>15,36</b>	<b>15,14</b>	<b>13,26</b>	<b>21,04</b>	<b>12,61</b>	<b>6,45</b>	<b>26,82</b>	<b>21,10</b>

## CV-Helios Network Annual Final Report for 2006

Collated results STDEV for the year 2006												
std. Dev.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	7,91			10,58	10,22	0,76	9,38	1,60	7,71	8,29	9,45	9,71
2	8,49			11,49	9,31		9,51	1,63	4,09	5,86	10,27	9,54
3	6,19			11,70	9,93	0,71	9,23	0,84		4,78	10,17	8,47
4	5,62		0,86	11,68	10,16	7,13	9,08			4,84	10,53	8,82
5	3,83		2,85	11,67	7,74	8,05	10,33	3,57	6,06	5,03	9,10	11,20
6	3,94			11,65	6,95	9,32	10,72		8,61	4,69	8,08	10,99
7	3,85			11,57	7,10	10,73	10,69		9,93	4,20	8,09	10,00
8	3,73	2,56		11,13	8,77	11,05	10,46	1,84	10,06	3,01	10,79	9,33
9	3,41	2,22		8,88	8,52	10,33	8,76	6,17	10,49	2,43	9,81	9,17
10	2,92	0,71		9,08	6,91	9,31	3,04	9,74	9,40	1,28	9,24	9,29
11	2,64			9,32	4,97	7,70	2,03	9,86	8,19		9,44	9,42
12	0,93		3,44	9,30	2,57	5,93		9,59	8,01		9,63	9,35
13		0,75	2,65	9,40	1,72	4,79		9,62	7,87		10,48	9,26
14		1,24	1,54	7,28		4,17	2,52	9,87	5,72		10,59	8,76
15	7,27	4,01	1,94	4,90		3,74	3,52	9,91	5,63		10,26	9,30
16	8,74	4,40	2,83	3,78			4,24	10,03	5,33		10,72	9,29
17	8,73	2,09	2,77	2,12		2,12	4,15	10,17	4,94		10,67	8,02
18	7,08		4,70	1,11		2,75	5,76	10,17	2,83		10,47	1,77
19	8,06	0,73	5,88	1,09	2,32	4,72	4,38	9,44	3,26	1,32	9,96	
20	7,85	0,98	6,08	4,24	5,44	2,83	1,73	9,01	2,64	2,75	9,47	
21	9,15	1,49	6,64	4,16	6,38	0,73		10,57	3,66	4,71	1,79	
22	8,83		6,50		6,19		3,74	8,44	3,78	7,31	1,64	
23	9,56		4,45	6,43	7,80		6,27	8,20	2,64	7,90	2,25	
24	8,82		2,60	9,35	8,50		6,06	8,65	1,77	6,46		
25	8,04			11,02	8,19	5,01	5,97	9,07		2,64	6,39	2,15
26	7,40			11,48	7,30	5,49	4,41	9,53			7,35	2,32
27	5,81	1,47		11,06	8,48	6,54	4,28	8,94		1,11	8,43	0,90
28	0,86	1,13	4,01	10,59	8,02	9,47	4,00	8,30	4,25	1,32	9,06	
29			8,90	10,49	7,46	10,33	3,99	7,58	6,28		9,26	0,75
30			9,07	10,24	5,99	9,88	4,95	5,84	8,44	3,96	10,16	4,81
31			9,50		3,16		2,63	8,27		8,33		7,90
<b>6,48</b>	<b>6,14</b>	<b>1,83</b>	<b>4,59</b>	<b>8,51</b>	<b>6,93</b>	<b>6,14</b>	<b>5,92</b>	<b>7,73</b>	<b>6,06</b>	<b>4,39</b>	<b>8,74</b>	<b>7,52</b>

## CV-Helios Network Annual Final Report for 2006

Collated results CV 6 rot. averages for the year 2006												
CV-6 rot.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	32,69	28,05	21,18	20,23	25,73	21,07	19,47	20,99	25,87	22,83	19,43	22,38
2	32,87	27,63	20,85	20,65	25,65	20,70	19,55	21,00	25,81	22,87	19,62	22,63
3	32,90	27,17	20,67	21,19	25,55	20,42	19,61	21,00	25,74	22,95	19,75	22,83
4	32,89	26,81	20,52	21,71	25,48	20,29	19,61	20,98	25,71	22,90	19,88	23,04
5	32,84	26,46	20,40	22,23	25,24	20,16	19,70	21,03	25,82	22,74	19,92	23,44
6	32,76	26,19	20,22	22,73	25,04	20,00	19,79	21,03	26,02	22,44	19,95	23,74
7	32,72	25,90	20,03	23,21	24,88	20,01	19,92	21,03	26,29	22,05	19,93	23,93
8	32,57	25,66	19,86	23,60	24,99	20,03	20,06	21,05	26,52	21,71	20,11	24,04
9	32,27	25,42	19,67	23,81	25,11	20,03	20,12	21,16	26,63	21,40	20,22	24,03
10	31,88	25,20	19,52	24,04	25,18	19,98	20,05	21,41	26,65	21,09	20,35	23,96
11	31,42	25,07	19,38	24,28	25,18	19,77	20,07	21,68	26,58	20,79	20,56	23,93
12	30,96	25,01	19,33	24,47	25,13	19,59	20,07	21,93	26,43	20,49	20,81	23,93
13	30,52	24,94	19,34	24,62	24,95	19,44	20,07	22,19	26,15	20,25	21,13	23,91
14	30,14	24,89	19,33	24,69	24,63	19,33	20,10	22,47	25,70	19,97	21,46	23,89
15	29,97	24,89	19,32	24,70	24,16	19,18	20,15	22,74	25,27	19,68	21,62	23,90
16	29,85	24,91	19,34	24,74	23,75	19,08	20,22	22,99	24,84	19,51	21,79	23,83
17	29,72	24,90	19,27	24,75	23,36	19,00	20,28	23,28	24,42	19,37	21,88	23,66
18	29,56	24,86	19,19	24,70	23,02	18,98	20,38	23,57	23,98	19,23	21,86	23,34
19	29,34	24,55	19,18	24,62	22,82	19,00	20,45	23,82	23,63	19,03	21,76	23,02
20	29,19	24,23	19,20	24,60	22,77	18,98	20,46	24,04	23,44	18,86	21,70	22,81
21	29,26	23,89	19,26	24,62	22,73	18,93	20,46	24,37	23,27	18,80	21,48	22,77
22	29,29	23,53	19,35	24,62	22,66	18,89	20,48	24,57	23,08	18,87	21,33	22,75
23	29,41	23,19	19,40	24,74	22,59	18,85	20,57	24,71	22,87	19,01	21,25	22,74
24	29,49	22,85	19,42	24,98	22,48	18,82	20,68	24,88	22,65	19,12	21,18	22,74
25	29,49	22,52	19,41	25,31	22,38	18,89	20,78	25,09	22,50	19,15	21,24	22,74
26	29,46	22,20	19,41	25,56	22,24	18,99	20,85	25,33	22,42	19,15	21,34	22,72
27	29,40	21,89	19,36	25,66	22,04	19,11	20,91	25,51	22,37	19,16	21,53	22,66
28	29,29	21,56	19,38	25,69	21,87	19,21	20,95	25,67	22,41	19,17	21,73	22,60
29	29,15		19,55	25,71	21,77	19,31	20,95	25,75	22,52	19,17	21,93	22,51
30	28,88		19,73	25,72	21,65	19,37	20,97	25,75	22,71	19,20	22,16	22,52
31	28,47		19,93		21,43		20,97	25,83		19,30		22,67
<b>22,89</b>	<b>30,60</b>	<b>24,80</b>	<b>19,68</b>	<b>24,07</b>	<b>23,76</b>	<b>19,51</b>	<b>20,28</b>	<b>23,12</b>	<b>24,61</b>	<b>20,33</b>	<b>20,96</b>	<b>23,21</b>



### CV-Helios Network Annual Final Report for 2006

NOAA Regions year 2006							89 regions					
Reg.	Date	Lat.	Long.	Rot.	Class		Reg.	Date	Lat.	Long.	Rot.	Class
1	0845	07.01.06	18	85	2038	CAO	271					
2	0846	16.01.06	05	68	2038	DSO	272					
3	0847	16.01.06	-09	46	2038	CAO	273					
4	0848	19.01.06	-18	322	2039	DAI	274					
5	0849	23.01.06	-07	262	2039	HSX	275					
6	0850	24.01.06	06	298	2039	DSO	276					
7	0851	28.01.06	-15	301	2039	CSO	277					
8	0852	09.02.06	-10	87	2039	HSX	278					
9	0853	10.02.06	-11	119	2039	HAX	279					
10	0854	16.02.06	-07	327	2040	DSO	280					
11	0855	17.02.06	06	309	2040	HAX	281					
12	0856	28.02.06	-08	123	2040	AXX	282					
13	0857	06.03.06	08	72	2040	CSO	283					
14	0858	13.03.06	18	05	2040	CRO	284					
15	0859	15.03.06	-07	73	2040	AXX	285					
16	0860	15.03.06	-03	304	2041	HSX	286					
17	0861	16.03.06	-12	295	2041	AXX	287					
18	0862	19.03.06	-07	299	2041	CSO	288					
19	0863	23.03.06	08	301	2041	CSO	289					
20	0864	25.03.06	-05	284	2041	BXO	290					
21	0865	29.03.06	-13	110	2041	HSX	291					
22	0866	30.03.06	-06	88	2041	HSX	292					
23	0867	03.04.06	-16	88	2041	DSO	293					
24	0868	06.04.06	-07	70	2041	CAO	294					
25	0869	07.04.06	-12	27	2041	BXO	295					
26	0870	11.04.06	-08	336	2042	AXX	296					
27	0871	11.04.06	-08	306	2042	CAO	297					
28	0872	12.04.06	-09	271	2042	HSX	298					
29	0873	12.04.06	-04	297	2042	DSO	299					
30	0874	19.04.06	00	238	2042	HSX	300					
31	0875	24.04.06	-11	116	2042	CAO	301					
32	0876	25.04.06	-14	94	2042	HAX	302					
33	0877	27.04.06	-07	96	2042	HRX	303					
34	0878	01.05.06	14	35	2042	BXO	304					
35	0879	03.05.06	16	61	2042	DAO	305					
36	0880	05.05.06	-08	338	2043	HHX	306					
37	0881	06.05.06	-12	313	2043	AXX	307					
38	0882	07.05.06	-12	34	2042	DAO	308					
39	0883	08.05.06	-04	305	2043	AXX	309					
40	0884	20.05.06	-13	156	2043	BXO	310					
41	0885	21.05.06	-12	146	2043	CRO	311					
42	0886	24.05.06	08	104	2043	CRO	312					
43	0887	27.05.06	-12	46	2043	BXO	313					
44	0888	27.05.06	05	174	2043	CSO	314					
45	0889	28.05.06	-03	90	2043	CRO	315					
46	0890	29.05.06	-14	113	2043	CSO	316					
47	0891	31.05.06	-13	38	2043	CSO	317					
48	0892	05.06.06	-08	284	2044	DSI	318					
49	0893	07.06.06	-03	261	2044	CAO	319					
50	0894	12.06.06	-07	222	2044	HSX	320					
51	0895	18.06.06	00	170	2044	AXX	321					
52	0896	18.06.06	-12	151	2044	CSO	322					
53	0897	26.06.06	06	358	2045	BXO	323					
54	0898	29.06.06	-06	328	2045	HSX	324					
55	0899	06.07.06	-05	232	2045	DRO	325					
56	0900	15.07.06	-05	139	2045	CSO	326					
57	0901	23.07.06	06	06	2045	CSO	327					
58	0902	31.07.06	-10	351	2046	CSO	328					
59	0903	09.08.06	-09	154	2046	CRO	329					
60	0904	10.08.06	-14	121	2046	HAX	330					
61	0905	22.08.06	-08	325	2047	CAO	331					
62	0906	01.09.06	-09	319	2047	CAO	332					
63	0907	06.09.06	-13	157	2047	BXO	333					
64	0908	06.09.06	-13	130	2047	HAX	334					
65	0909	07.09.06	-08	163	2047	CSI	335					
66	0910	19.09.06	-08	341	2048	HSX	336					
67	0911	27.09.06	07	212	2048	BXO	337					
68	0912	29.09.06	06	193	2048	BXO	338					
69	0913	29.09.06	-18	190	2048	HSX	339					
70	0914	29.09.06	-07	183	2048	AXX	340					
71	0915	30.09.06	-06	291	2048	CSO	341					
72	0916	11.10.06	-13	107	2048	AXX	342					
73	0917	20.10.06	-05	344	2049	BXO	343					
74	0918	24.10.06	-04	359	2049	CRO	344					
75	0919	28.10.06	-15	236	2049	BXO	345					
76	0920	29.10.06	-07	303	2049	ESO	346					
77	0921	31.10.06	-06	137	2049	CRO	347					
78	0922	01.11.06	-15	124	2049	CRO	348					
79	0923	09.11.06	-05	05	2049	HKX	349					
80	0924	14.11.06	-07	311	2050	CAO	350					
81	0925	15.11.06	-06	305	2050	HAX	351					
82	0926	26.11.06	-08	140	2050	HKX	352					
83	0927	28.11.06	08	128	2050	CRO	353					
84	0928	01.12.06	-07	179	2050	CSO	354					
85	0929	05.12.06	02	28	2050	BXO	355					
86	0930	06.12.06	-06	09	2050	DKO	356					
87	0931	26.12.06	-08	122	2051	AXX	357					
88	0932	26.12.06	-07	142	2051	CSO	358					
89	0933	31.12.06	-04	33	2051	AXX	359					
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### CV-Helios Network Annual Final Report for 2006

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### CV-Helios Network Annual Final Report for 2006

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### CV-Helios Network Annual Final Report for 2006

#### ZÜRICH/McINTOSH-CLASSIFICATIONS DISTRIBUTION for the year 2006

A	B	C	D	E	F	H
AXX	BXO	CRO	DRO	ERO	FRO	HRX
12,4 %	13,5 %	10,1 %	1,1 %			1,1 %
	BXI	CRI	DRI	ERI	FRI	HAX
						6,7 %
		CAO	DAO	EAO	FAO	HSX
		10,1 %	2,2 %			12,4 %
		CAI	DAI	EAI	FAI	HKX
			1,1 %			2,2 %
		CSO	DSO	ESO	FSO	HHX
		15,7 %	5,6 %	1,1 %		1,1 %
		CSI	DSI	ESI	FSI	
		1,1 %	1,1 %			
		CKO	DAC	EAC	FAC	
		CKI	DSC	ESC	FSC	
		CHO	DKO	EKO	FKO	
			1,1 %			
		CHI	DKI	EKI	FKI	
			DHO	EHO	FHO	
			DHI	EHI	FHI	
			DKC	EKC	FKC	
			DHC	EHC	FHC	

#### SUNSPOT CLASS

1st letter

	<b>89</b>	
A	<b>11</b>	12,4 %
B	<b>12</b>	13,5 %
C	<b>33</b>	37,1 %
D	<b>11</b>	12,4 %
E	<b>1</b>	1,1 %
F	<b>0</b>	0,0 %
H	<b>21</b>	23,6 %

#### MAIN SUNSPOT TYPE

2nd letter

	<b>89</b>	
X	<b>23</b>	25,8 %
R	<b>11</b>	12,4 %
A	<b>18</b>	20,2 %
S	<b>33</b>	37,1 %
K	<b>3</b>	3,4 %
H	<b>1</b>	1,1 %

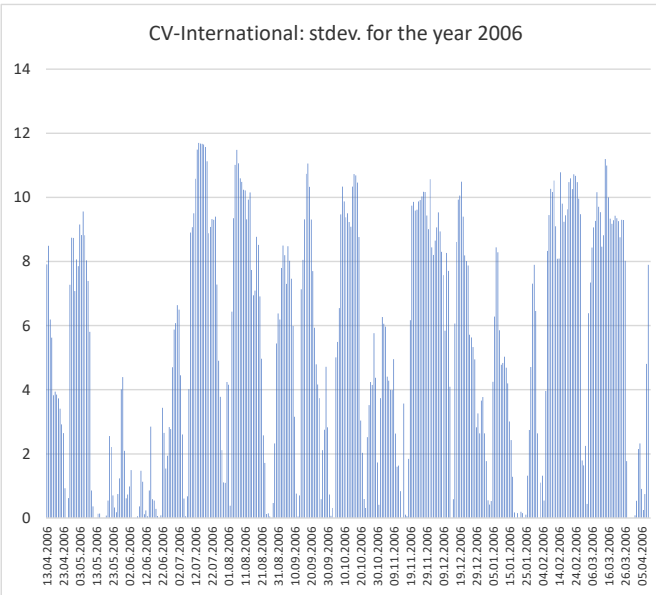
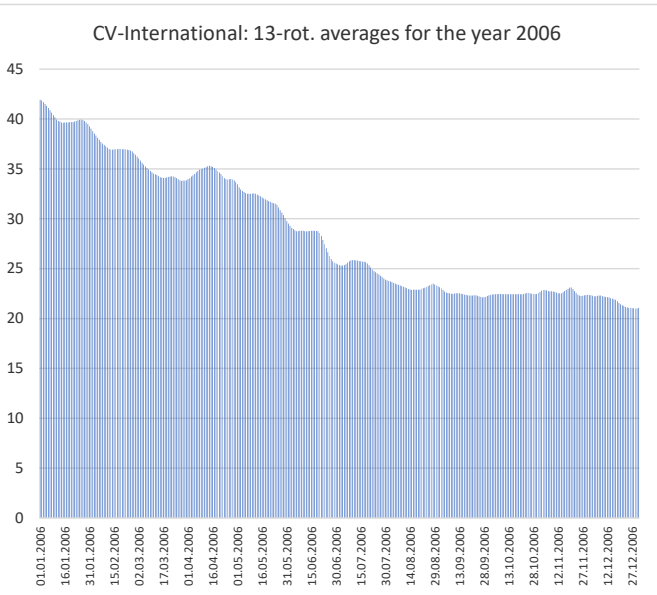
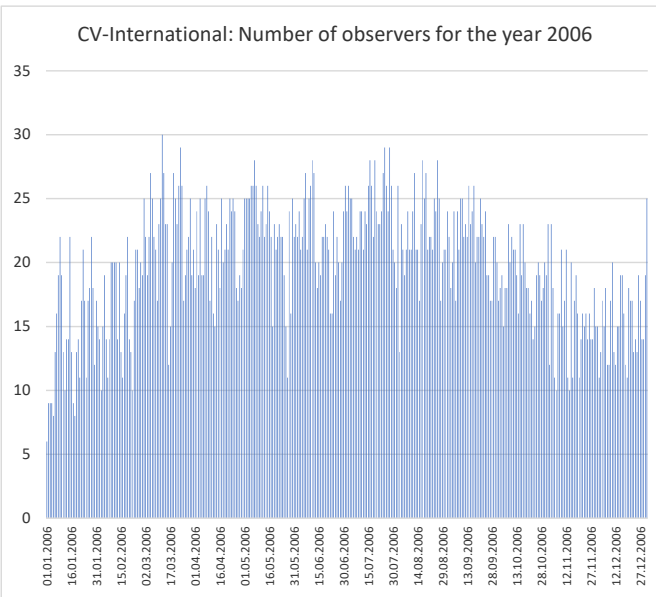
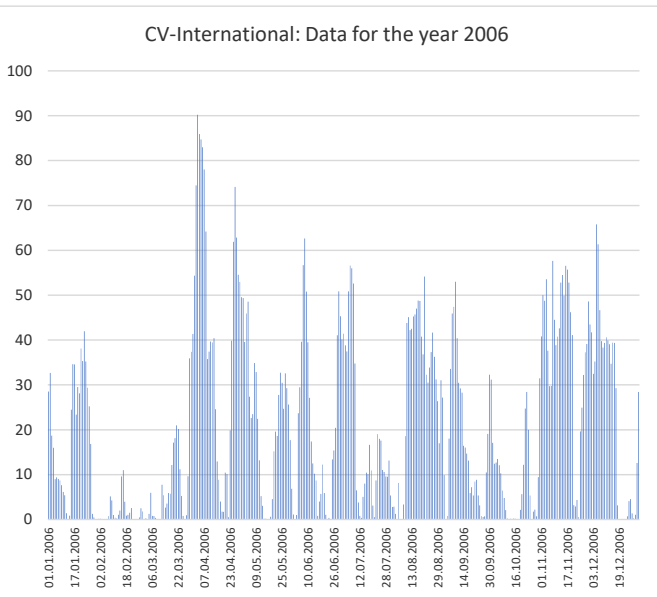
#### SUNSPOT DISTRIBUTION

3rd letter

	<b>89</b>	
X	<b>32</b>	36,0 %
O	<b>54</b>	60,7 %
I	<b>3</b>	3,4 %
C	<b>0</b>	0,0 %

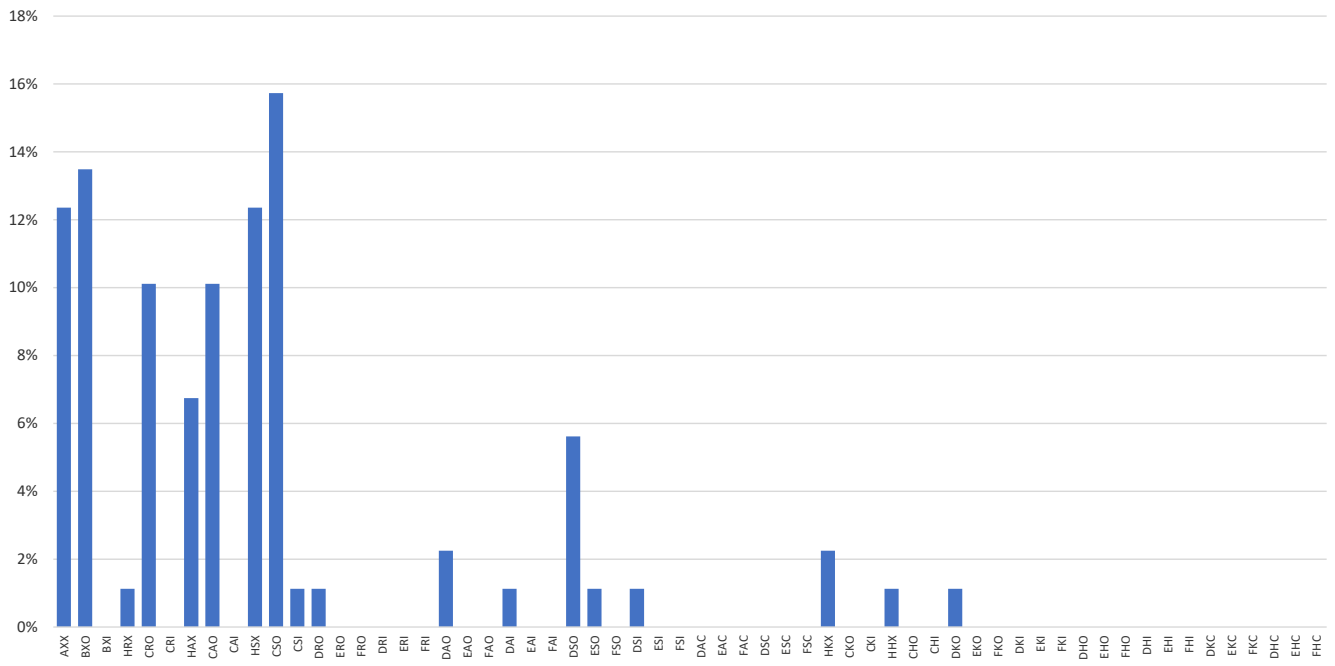
### CV-Helios Network Annual Final Report for 2006

#### Graphics for the year 2006

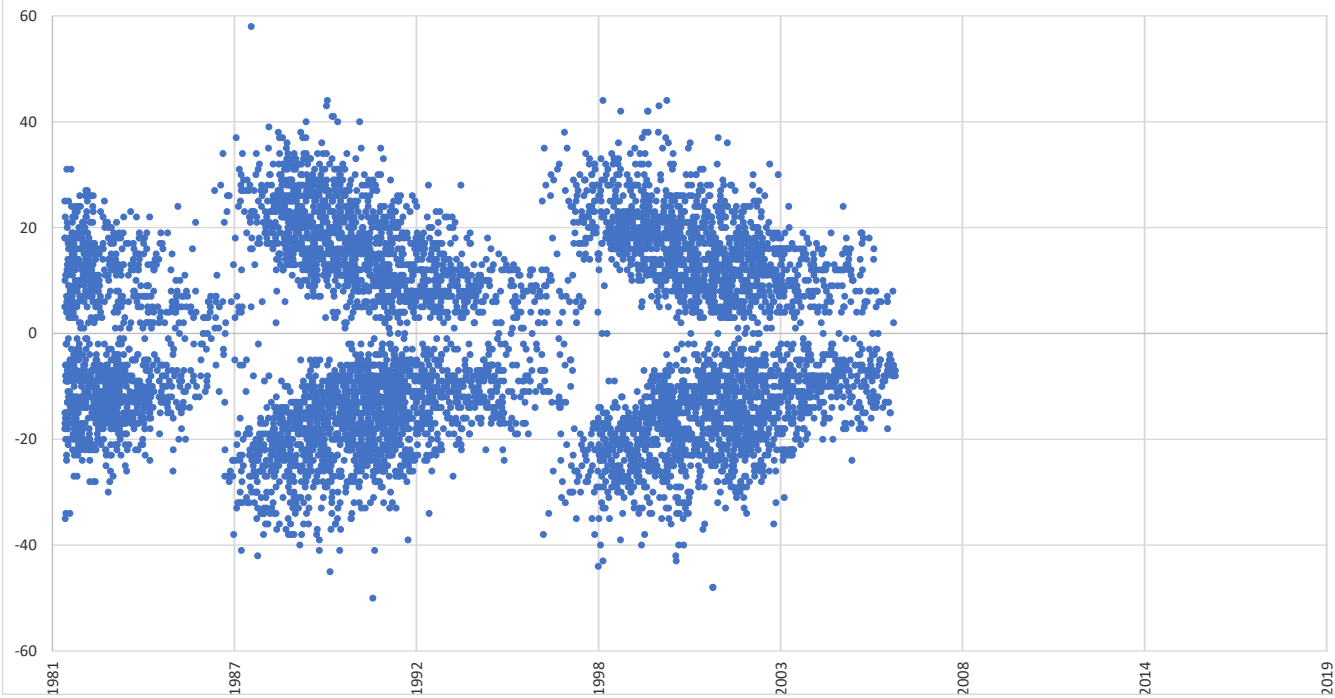


### CV-Helios Network Annual Final Report for 2006

Zürich/McIntosh-classifications denoted by NOAA/USAF for the year 2006



RGO/NOAA-USAF Sunspot Regions 1981-2006



## CV-Helios Network Annual Final Report for 2006

**CV-Helios Network - over 25 years in solar amateur astronomy service!**

There are now 5578 entries registered  
containing 84994 CV-observations!

**This AFR issued 1st April 2007**

### **CV-Helios Network**

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[www.cv-helios.net](http://www.cv-helios.net)

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Worldwide Amateur Solar Observing Network  
Magnetic Sunspot Classifications Zürich/McIntosh system  
CV - Classification Values (Malde/1981) - numeric system  
Serving Amateur Solar Astronomy since 1981

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