

# *Annual Final Report*

## *AFR*

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# 1994

## **CV-Helios Network Annual Final Report for 1994**

In the year 1994, Solar Cycle no. 22

The Average CV was: 38,2 and the Average 6-rot. Smoothed CV was: 44,4

The Average CV-USAF was: 29,2

giving an Estimated STDEV of: 7,8

CV-Helios Network observed on 365 days

CV-Helios Network had a total of 2713 observations in 1994

CV-Helios Network have received 170 observation entries in the year 1994

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

This Annual Final Report contain results from 18 CV-observers

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

CV-Helios Network 01. April 1995



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Kjell Inge Malde  
Director



## CV-Helios Network Annual Final Report for 1994

Collated results CV for the year 1994												
CV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	158,29	21,74	38,00	11,67	7,33	1,33	39,85	2,70	87,11	34,13	75,44	13,67
2	140,44	20,75	52,50	2,89	8,88	1,14	51,62	4,36	97,00	42,57	63,50	1,29
3	126,55	73,25	51,67	1,27	9,89	1,22	66,27	24,00	100,09	48,60	58,40	1,00
4	125,33	62,33	42,83	0,57	8,17	1,10	62,90	24,42	106,56	45,10	49,63	10,00
5	146,33	77,00	47,00	9,63	14,00	1,00	54,73	25,20	117,20	57,13	43,20	18,80
6	103,00	57,33	48,89	0,80	9,67	3,25	57,40	15,83	105,67	71,17	33,43	24,20
7	146,75	53,74	45,33	0,60	13,22	31,50	70,38	24,33	117,14	77,25	29,80	19,80
8	86,18	50,50	43,67	1,38	11,75	68,33	87,13	26,75	108,43	44,60	49,17	16,40
9	74,00	74,95	37,62	5,56	8,56	49,71	76,17	28,00	89,40	73,10	16,50	55,20
10	63,33	80,19	13,60	15,60	2,71	77,00	64,17	34,00	70,75	91,56	9,00	67,50
11	65,00	68,33	24,29	11,17	15,33	69,14	80,00	44,50	51,17	90,00	3,50	68,67
12	52,50	66,36	29,20	9,25	38,40	59,90	66,33	69,75	40,56	109,00	3,20	58,20
13	55,08	60,30	35,00	9,60	64,00	73,00	33,60	68,20	26,71	94,13	0,20	57,67
14	38,00	61,42	27,17	11,17	60,78	48,88	23,86	78,17	20,00	84,71	1,60	59,00
15	33,50	50,54	30,25	24,57	53,25	46,18	28,83	68,73	18,00	76,08	2,00	58,80
16	49,50	53,27	28,86	29,63	53,91	51,63	34,10	71,83	6,86	72,75	7,00	51,50
17	60,95	51,02	24,43	36,33	52,11	52,20	40,64	63,50	12,00	83,43	2,14	56,14
18	54,63	48,72	23,50	29,50	55,40	34,50	39,88	55,13	11,00	103,11	7,00	50,57
19	51,00	38,71	20,26	26,50	55,20	5,50	42,88	54,00	1,20	91,63	2,29	41,33
20	50,75	42,52	15,26	39,88	57,50	3,22	34,63	27,64	0,78	84,29	0,25	28,00
21	57,33	38,40	27,93	47,90	50,40	3,00	36,50	18,09	1,25	53,42	7,00	19,67
22	78,75	53,40	19,25	66,70	41,27	9,33	36,27	5,79	4,00	51,44	5,20	24,80
23	93,00	54,25	16,00	55,83	30,50	12,56	28,55	19,75	8,09	35,57	5,60	13,67
24	92,00	56,50	12,20	43,10	4,89	18,50	32,50	19,73	6,83	9,75	0,75	30,43
25	122,00	41,77	14,50	55,33	1,60	4,46	25,00	14,10	16,58	35,40	16,14	18,00
26	87,75	27,20	7,48	53,57	0,00	1,89	26,33	6,43	30,00	73,83	21,63	27,25
27	93,20	24,50	11,38	24,38	1,25	11,80	21,31	2,92	39,17	38,67	20,25	23,00
28	77,00	54,00	15,17	14,71	0,73	17,75	17,46	9,44	27,11	54,60	13,00	10,00
29	26,83		17,75	4,25	0,40	29,56	1,78	17,91	17,22	64,25	8,40	3,00
30	19,50		15,30	3,79	0,50	30,92	4,00	44,73	37,00	72,60	18,40	1,33
31	47,14		19,00		1,50		3,67	85,33		97,14		1,14
<b>39,05</b>	<b>79,86</b>	<b>52,25</b>	<b>27,59</b>	<b>21,57</b>	<b>23,65</b>	<b>27,32</b>	<b>41,57</b>	<b>34,04</b>	<b>45,83</b>	<b>66,48</b>	<b>19,12</b>	<b>30,00</b>

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Collated results Observers for the year 1994													
Obsrvrs.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	6	7	4	9	9	9	13	10	9	8	9	6	6
2	5	4	6	9	8	7	13	14	6	7	8	7	7
3	6	4	6	11	9	9	11	13	11	5	10	8	8
4	3	6	6	7	6	10	10	12	9	10	8	7	7
5	6	5	7	8	4	10	11	10	5	8	10	5	5
6	4	6	9	5	6	8	10	12	6	6	7	5	5
7	4	4	3	10	9	6	8	12	7	8	5	5	5
8	7	2	3	8	8	9	8	8	7	5	6	5	5
9	3	7	5	9	9	7	12	11	10	10	4	5	5
10	3	6	5	5	7	11	12	10	12	9	3	4	4
11	3	4	7	6	12	7	11	10	12	9	2	3	3
12	4	6	5	4	10	10	9	8	9	9	5	5	5
13	4	6	4	5	9	9	10	10	7	8	5	3	3
14	4	7	6	6	9	8	7	12	6	7	5	6	6
15	4	7	4	7	12	11	6	11	7	13	3	5	5
16	8	9	7	8	11	8	10	12	7	8	8	2	2
17	5	6	7	6	9	10	11	10	6	7	7	7	7
18	8	7	4	8	5	8	8	8	6	9	6	7	7
19	5	8	7	6	5	10	8	8	5	8	7	3	3
20	4	8	7	8	10	9	8	14	9	7	4	5	5
21	3	5	7	10	10	6	10	11	8	12	4	3	3
22	4	5	4	10	11	12	11	14	10	9	5	5	5
23	2	4	3	12	8	9	11	12	11	7	5	3	3
24	5	4	5	10	9	12	12	11	12	4	4	7	7
25	2	5	4	6	5	13	9	10	12	5	7	2	2
26	4	5	8	7	6	9	12	7	6	6	8	4	4
27	5	6	8	8	8	10	13	12	6	3	4	3	3
28	5	5	6	7	11	12	13	9	9	5	3	2	2
29	6		4	8	10	9	9	11	9	8	5	6	6
30	6		10	14	10	12	10	11	8	5	5	3	3
31	7		8		10		9	12		7		7	7
<b>7,41</b>	<b>4,68</b>	<b>5,64</b>	<b>5,77</b>	<b>7,90</b>	<b>8,55</b>	<b>9,33</b>	<b>10,16</b>	<b>10,81</b>	<b>8,23</b>	<b>7,48</b>	<b>5,73</b>	<b>4,77</b>	

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Collated results CV-USAF for the year 1994												
USAF-CV	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	145,40	12,14	25,07	5,20	2,65	0,07	26,63	0,49	70,58	21,85	59,16	6,48
2	125,96	11,41	37,72	0,56	3,51	0,03	36,92	1,16	80,48	28,96	47,81	0,06
3	111,11	57,05	36,97	0,06	4,11	0,04	50,41	13,83	83,62	34,23	43,08	0,00
4	109,82	46,72	29,19		3,11	0,02	47,25	14,15	90,23	31,16	35,14	4,18
5	132,33	60,67	32,82	3,95	6,70	0,00	39,73	14,75	101,27	41,91	29,51	10,00
6	86,58	42,10	34,49		3,98	0,69	42,16	7,93	89,32	55,05	21,28	13,99
7	132,78	38,83	31,36		6,19	19,71	54,30	14,09	101,21	60,91	18,35	10,72
8	69,66	35,92	29,91	0,08	5,25	52,36	70,59	15,95	92,16	30,72	34,74	8,32
9	57,77	58,68	24,75	1,73	3,33	35,22	59,86	16,92	72,86	56,90	8,39	40,16
10	47,65	63,77	6,44	7,77	0,49	60,67	48,43	21,75	54,65	75,01	3,59	51,57
11	49,21	52,35	14,05	4,89	7,59	53,13	63,58	30,63	36,52	73,45	0,80	52,67
12	37,72	50,49	17,87	3,73	25,41	44,46	50,47	53,70	27,24	92,75	0,68	42,90
13	40,04	44,83	22,57	3,94	48,28	56,81	21,42	52,23	15,92	77,59		42,41
14	25,07	45,87	16,27	4,89	45,28	34,48	13,73	61,80	10,87	68,21	0,14	43,63
15	21,34	35,96	18,71	14,27	38,39	32,10	17,58	52,73	9,44	59,77	0,25	43,45
16	35,03	38,41	17,60	18,21	38,99	36,93	21,83	55,69	2,39	56,57	2,47	36,82
17	45,44	36,39	14,16	23,68	37,37	37,45	27,30	47,81	5,41	66,94	0,30	41,02
18	39,64	34,34	13,46	18,11	40,34	22,16	26,66	40,09	4,78	86,70	2,47	35,99
19	36,37	25,67	11,06	15,75	40,16	1,70	29,23	39,07	0,04	75,08	0,34	27,90
20	36,15	28,92	7,54	26,66	42,26	0,68	22,26	16,64		67,79		16,92
21	42,10	25,41	16,87	33,61	35,83	0,60	23,81	9,50	0,05	38,54	2,47	10,63
22	62,36	38,53	10,33	50,81	27,85	3,78	23,63	1,84	1,01	36,77	1,55	14,44
23	76,46	39,30	8,05	40,73	18,91	5,76	17,35	10,69	3,07	23,04	1,75	6,48
24	75,45	41,35	5,54	29,42	1,41	9,79	20,52	10,67	2,38	4,03		18,85
25	106,30	28,28	7,03	40,28	0,14	1,21	14,60	6,77	8,45	22,90	8,14	9,44
26	71,21	16,30	2,73	38,68		0,22	15,62	2,17	18,51	57,61	12,06	16,34
27	76,66	14,21	5,02	14,12	0,05	5,28	11,82	0,57	26,06	25,63	11,05	13,08
28	60,67	39,07	7,48	7,18		9,26	9,06	3,85	16,23	39,61	6,05	4,18
29	16,01		9,26	1,12		18,15	0,19	9,37	8,89	48,51	3,24	0,60
30	10,51		7,57	0,91		19,24	1,01	30,83	24,23	56,42	9,72	0,07
31	32,95		10,15		0,11		0,86	68,82		80,63		0,03
<b>29,15</b>	<b>65,02</b>	<b>37,96</b>	<b>17,16</b>	<b>15,20</b>	<b>18,06</b>	<b>18,73</b>	<b>29,32</b>	<b>23,43</b>	<b>36,48</b>	<b>51,46</b>	<b>13,50</b>	<b>20,11</b>

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Collated results STDEV for the year 1994												
std. Dev.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	9,12	6,79	9,14	4,57	3,31	0,89	9,34	1,57	11,69	8,68	11,51	5,08
2	10,24	6,60	10,45	1,65	3,79	0,79	10,39	2,26	11,68	9,62	11,10	0,87
3	10,92	11,46	10,39	0,86	4,09	0,83	11,22	7,19	11,65	10,16	10,83	0,71
4	10,97	11,04	9,65		3,58	0,76	11,07	7,26	11,54	9,86	10,24	4,12
5	9,90	11,55	10,03	4,01	5,16	0,71	10,61	7,39	11,27	10,76	9,68	6,22
6	11,61	10,77	10,18		4,02	1,81	10,77	5,59	11,56	11,39	8,59	7,22
7	9,88	10,54	9,88		4,97	8,34	11,37	7,25	11,27	11,56	8,10	6,42
8	11,68	10,31	9,73	0,92	4,60	11,30	11,69	7,64	11,51	9,81	10,20	5,71
9	11,48	11,50	9,10	2,71	3,69	10,25	11,53	7,83	11,70	11,45	5,73	10,64
10	11,09	11,61	5,06	5,53	1,57	11,55	11,13	8,66	11,38	11,70	3,83	11,27
11	11,16	11,30	7,24	4,44	5,47	11,33	11,61	9,80	10,36	11,70	1,91	11,31
12	10,45	11,22	8,01	3,90	9,19	10,91	11,22	11,35	9,42	11,49	1,79	10,82
13	10,63	10,94	8,79	4,00	11,12	11,45	8,61	11,29	7,63	11,70		10,79
14	9,14	10,99	7,71	4,44	10,96	10,18	7,16	11,57	6,46	11,67	1,03	10,87
15	8,60	10,31	8,16	7,29	10,51	9,96	7,96	11,31	6,06	11,53	1,24	10,85
16	10,23	10,51	7,96	8,07	10,55	10,39	8,68	11,42	3,16	11,44	3,20	10,38
17	10,97	10,35	7,26	8,95	10,43	10,43	9,43	11,10	4,66	11,66	1,31	10,70
18	10,60	10,17	7,10	8,06	10,65	8,73	9,35	10,63	4,40	11,61	3,20	10,31
19	10,35	9,22	6,51	7,60	10,64	2,69	9,65	10,56	0,82	11,70	1,37	9,50
20	10,33	9,62	5,46	9,35	10,78	1,79	8,74	7,78		11,67		7,83
21	10,77	9,19	7,82	10,10	10,30	1,70	8,97	6,07	0,85	10,52	3,20	6,39
22	11,59	10,52	6,31	11,23	9,49	3,93	8,94	2,79	2,12	10,38	2,58	7,32
23	11,70	10,57	5,62	10,68	8,20	4,80	7,91	6,41	3,55	8,86	2,72	5,08
24	11,70	10,72	4,71	9,67	2,46	6,16	8,47	6,40	3,15	4,05		8,19
25	11,10	9,54	5,28	10,65	1,03	2,30	7,36	5,18	5,75	8,84	5,66	6,06
26	11,69	7,71	3,36	10,53		1,18	7,57	3,01	8,13	11,47	6,77	7,72
27	11,70	7,27	4,50	7,25	0,85	4,61	6,71	1,66	9,27	9,22	6,51	7,01
28	11,55	10,56	5,44	5,33		6,00	5,94	3,96	7,70	10,60	4,92	4,12
29	7,65		6,00	2,22		8,06	1,13	6,04	5,89	11,13	3,65	1,70
30	6,36		5,47	2,03		8,26	2,12	9,83	9,03	11,44	6,14	0,89
31	10,04		6,26		0,98		1,98	11,68		11,68		0,79
<b>7,87</b>	<b>10,49</b>	<b>10,10</b>	<b>7,37</b>	<b>6,15</b>	<b>6,38</b>	<b>6,07</b>	<b>8,67</b>	<b>7,50</b>	<b>7,71</b>	<b>10,62</b>	<b>5,44</b>	<b>7,00</b>

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Collated results CV 6 rot. averages for the year 1994												
CV-6 rot.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	58,57	59,58	63,29	55,25	51,20	45,02	33,26	29,13	29,14	34,60	41,20	39,68
2	58,98	59,28	63,58	54,93	50,91	44,63	33,26	28,92	29,61	34,57	41,34	39,67
3	59,07	59,16	63,88	54,52	50,63	44,37	33,35	28,81	30,13	34,46	41,51	39,61
4	59,34	59,05	64,13	54,11	50,33	43,88	33,39	28,72	30,70	34,40	41,78	39,60
5	59,82	58,99	64,40	53,86	50,04	43,44	33,24	28,55	31,33	34,48	42,04	39,60
6	60,01	58,92	64,64	53,49	49,67	43,04	33,03	28,32	31,93	34,58	42,24	39,72
7	60,28	58,89	64,67	53,40	48,99	42,27	32,89	28,12	32,57	34,72	42,41	39,83
8	60,39	58,73	64,61	53,35	48,80	42,07	32,68	28,03	33,14	34,85	42,71	39,86
9	60,49	58,87	64,45	53,25	48,57	41,86	32,61	28,04	33,58	35,20	42,81	40,09
10	60,55	59,10	63,88	53,31	48,36	41,78	32,43	28,09	33,91	35,73	42,86	40,32
11	60,73	59,28	63,39	53,32	48,07	41,38	32,45	28,04	34,11	36,26	42,87	40,55
12	60,81	59,41	62,99	53,04	47,99	40,81	32,69	28,23	34,29	36,88	42,88	40,66
13	60,83	59,55	62,75	52,75	47,93	40,32	32,78	28,32	34,43	37,40	42,88	40,70
14	60,73	59,80	62,43	52,47	48,08	39,65	32,64	28,49	34,55	37,86	42,88	40,65
15	60,54	59,95	61,94	52,29	47,95	39,07	32,68	28,64	34,65	38,27	42,88	40,63
16	60,57	60,20	61,36	52,22	47,41	38,62	32,76	28,80	34,64	38,63	42,92	40,61
17	60,63	60,50	60,81	52,14	47,13	38,17	32,56	28,88	34,70	39,08	42,91	40,60
18	60,73	60,76	60,24	52,02	46,81	37,49	32,43	28,94	34,77	39,63	42,77	40,48
19	60,73	60,97	59,70	51,87	46,75	36,89	32,22	29,01	34,77	40,11	42,36	40,20
20	60,69	61,22	59,21	51,82	46,74	36,02	32,08	28,95	34,74	40,57	42,06	39,91
21	60,44	61,45	58,74	51,82	46,66	35,51	31,97	28,97	34,65	40,88	41,63	39,64
22	60,24	61,78	58,12	51,94	46,68	35,12	31,89	28,86	34,61	41,10	41,24	39,30
23	60,22	62,11	57,72	52,01	46,59	34,81	31,60	28,80	34,60	41,09	40,91	38,98
24	60,12	62,45	57,27	52,16	46,36	34,52	31,31	28,71	34,58	40,76	40,47	38,96
25	60,40	62,70	56,66	52,34	46,22	34,23	31,05	28,63	34,62	40,60	40,27	38,92
26	60,02	62,83	56,47	52,49	46,17	33,91	30,80	28,49	34,65	40,73	40,12	38,91
27	60,39	62,91	56,32	52,38	46,12	33,75	30,57	28,33	34,71	40,63	39,93	38,85
28	60,50	63,17	56,19	52,13	45,87	33,65	30,30	28,24	34,65	40,65	39,69	38,66
29	60,26		55,83	51,83	45,66	33,53	30,00	28,20	34,58	40,70	39,53	38,43
30	59,93		55,57	51,51	45,40	33,35	29,70	28,35	34,64	40,81	39,61	38,18
31	59,84		55,31		45,15		29,41	28,78		41,05		37,98
<b>44,41</b>	<b>60,22</b>	<b>60,41</b>	<b>60,66</b>	<b>52,80</b>	<b>47,72</b>	<b>38,77</b>	<b>32,07</b>	<b>28,56</b>	<b>33,60</b>	<b>38,11</b>	<b>41,72</b>	<b>39,67</b>



### CV-Helios Network Annual Final Report for 1994

NOAA Regions year 1994							164 regions					
Reg.	Date	Lat.	Long.	Rot.	Class		Reg.	Date	Lat.	Long.	Rot.	Class
1	7647	01.01.94	-16	92	1877	DAO	271					
2	7648	04.01.94	06	19	1877	DAO	272					
3	7649	04.01.94	-12	88	1877	CAO	273					
4	7650	06.01.94	05	05	1878	AXX	274					
5	7651	13.01.94	-06	347	1878	CRO	275					
6	7652	16.01.94	04	217	1878	CHO	276					
7	7653	16.01.94	-05	11	1877	BXO	277					
8	7654	17.01.94	07	206	1878	CKI	278					
9	7655	17.01.94	-07	300	1878	BXI	279					
10	7657	22.01.94	11	233	1878	DRI	280					
11	7658	23.01.94	12	182	1878	DRO	281					
12	7659	23.01.94	-13	150	1878	CAO	282					
13	7660	24.01.94	-08	114	1878	BXO	283					
14	7661	25.01.94	08	133	1878	BXO	284					
15	7662	28.01.94	-16	80	1878	AXX	285					
16	7663	30.01.94	12	85	1878	BXO	286					
17	7664	30.01.94	-07	43	1878	AXX	287					
18	7665	30.01.94	04	28	1878	CSO	288					
19	7666	03.02.94	18	348	1879	AXX	289					
20	7667	06.02.94	-07	332	1879	CAO	290					
21	7668	08.02.94	08	282	1879	BXO	291					
22	7669	12.02.94	06	222	1879	AXX	292					
23	7670	13.02.94	08	205	1879	AXX	293					
24	7671	14.02.94	10	192	1879	AXX	294					
25	7673	18.02.94	08	266	1879	DSO	295					
26	7674	20.02.94	-14	163	1879	BXO	296					
27	7675	23.02.94	-12	107	1879	CAO	297					
28	7676	22.02.94	09	99	1879	AXX	298					
29	7677	28.02.94	11	156	1879	BXO	299					
30	7678	25.02.94	-14	48	1879	CSO	300					
31	7679	26.02.94	-02	84	1879	AXX	301					
32	7680	27.02.94	-13	20	1879	AXX	302					
33	7681	27.02.94	-14	100	1879	AXX	303					
34	7682	02.03.94	-19	71	1879	CRO	304					
35	7683	03.03.94	-19	91	1879	DSO	305					
36	7684	04.03.94	-09	04	1879	BXO	306					
37	7685	06.03.94	-07	340	1880	BXI	307					
38	7686	07.03.94	08	36	1879	DSO	308					
39	7687	07.03.94	17	334	1880	DAO	309					
40	7688	11.03.94	19	223	1880	AXX	310					
41	7689	09.03.94	-04	289	1880	AXX	311					
42	7690	13.03.94	-14	326	1880	BXO	312					
43	7691	15.03.94	07	235	1880	AXX	313					
44	7692	16.03.94	17	160	1880	CSO	314					
45	7693	18.03.94	09	189	1880	CAO	315					
46	7694	25.03.94	11	69	1880	CSO	316					
47	7695	25.03.94	-17	51	1880	BXO	317					
48	7696	24.03.94	-09	84	1880	CSO	318					
49	7697	26.03.94	-10	42	1880	CSO	319					
50	7698	30.03.94	-17	32	1880	CSO	320					
51	7699	06.04.94	-08	320	1881	AXX	321					
52	7700	09.04.94	08	203	1881	AXX	322					
53	7701	15.04.94	05	119	1881	CAO	323					
54	7702	18.04.94	-11	108	1881	AXX	324					
55	7703	20.04.94	09	98	1881	AXX	325					
56	7704	20.04.94	08	51	1881	AXX	326					
57	7705	22.04.94	05	91	1881	DAO	327					
58	7706	24.04.94	05	137	1881	CSO	328					
59	7707	24.04.94	02	75	1881	AXX	329					
60	7708	21.04.94	13	106	1881	AXX	330					
61	7709	28.04.94	02	61	1881	AXX	331					
62	7710	01.05.94	-14	41	1881	BXO	332					
63	7711	30.04.94	-11	346	1882	AXX	333					
64	7712	01.05.94	-12	323	1882	BXO	334					
65	7713	02.05.94	07	292	1882	BXO	335					
66	7714	02.05.94	-13	285	1882	AXX	336					
67	7715	02.05.94	08	00	1882	CSO	337					
68	7718	07.05.94	09	239	1882	AXX	338					
69	7719	07.05.94	-08	227	1882	BXO	339					
70	7720	08.05.94	-08	199	1882	BXO	340					
71	7721	11.05.94	-12	141	1882	AXX	341					
72	7722	12.05.94	07	120	1882	DHO	342					
73	7723	13.05.94	10	157	1882	DAO	343					
74	7725	15.05.94	06	148	1882	AXX	344					
75	7726	14.05.94	08	107	1882	AXX	345					
76	7727	18.05.94	08	52	1882	DAO	346					
77	7728	26.05.94	-07	322	1883	AXX	347					
78	7729	07.06.94	-16	272	1883	BXO	348					
79	7730	08.06.94	-10	127	1883	CSO	349					
80	7731	08.06.94	08	119	1883	CSO	350					
81	7732	09.06.94	-09	216	1883	BXO	351					
82	7733	10.06.94	04	169	1883	DRO	352					
83	7734	11.06.94	11	147	1883	BXO	353					
84	7735	13.06.94	-13	60	1883	AXX	354					
85	7736	20.06.94	-11	28	1883	BXO	355					
86	7737	18.06.94	-12	359	1884	AXX	356					
87	7739	21.06.94	-07	08	1883	BXO	357					
88	7740	16.06.94	-11	20	1883	BXO	358					
89	7741	26.06.94	04	336	1884	BXO	359					
90	7742	28.06.94	-08	231	1884	CSO	360					

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91	7743	29.06.94	-09	216	1884	AXX
92	7744	02.07.94	-07	270	1884	AXX
93	7745	03.07.94	09	218	1884	BXO
94	7746	03.07.94	11	157	1884	CSO
95	7747	07.07.94	-17	145	1884	AXX
96	7749	08.07.94	-09	161	1884	BXO
97	7750	11.07.94	-16	167	1884	BXO
98	7751	11.07.94	-12	70	1884	AXX
99	7753	12.07.94	-12	45	1884	AXX
100	7754	13.07.94	10	79	1884	AXX
101	7755	13.07.94	06	113	1884	BXO
102	7756	16.07.94	-13	359	1885	BXO
103	7757	17.07.94	13	331	1885	CSO
104	7758	19.07.94	-12	313	1885	CSO
105	7759	29.07.94	04	210	1885	BXO
106	7760	30.07.94	-07	237	1885	AXX
107	7761	02.08.94	-05	197	1885	AXX
108	7762	03.08.94	06	109	1885	DAO
109	7763	10.08.94	-09	60	1885	AXX
110	7764	12.08.94	-05	355	1886	CAO
111	7765	12.08.94	-12	30	1885	AXX
112	7766	15.08.94	10	336	1886	CRO
113	7767	17.08.94	-13	310	1886	BXO
114	7768	18.08.94	-13	301	1886	AXX
115	7769	24.08.94	10	310	1886	AXX
116	7770	24.08.94	-07	224	1886	DSO
117	7771	29.08.94	07	122	1886	CSO
118	7772	30.08.94	-22	179	1886	CSO
119	7773	31.08.94	-08	99	1886	FAC
120	7774	02.09.94	10	84	1886	CAO
121	7775	03.09.94	14	59	1886	AXX
122	7776	04.09.94	-06	48	1886	CKO
123	7777	06.09.94	-14	114	1886	AXX
124	7778	12.09.94	-06	66	1886	AXX
125	7779	17.09.94	18	283	1887	AXX
126	7780	13.09.94	-13	327	1887	AXX
127	7781	23.09.94	-08	220	1887	BXO
128	7782	26.09.94	-02	224	1887	CSO
129	7783	27.09.94	-07	101	1887	CSO
130	7784	01.10.94	-04	51	1887	CSO
131	7785	05.10.94	-08	64	1887	CRO
132	7786	06.10.94	-14	121	1887	CRO
133	7787	06.10.94	10	347	1888	BXO
134	7788	07.10.94	-03	328	1888	AXX
135	7789	10.10.94	09	293	1888	CSO
136	7790	12.10.94	12	260	1888	CAO
137	7791	19.10.94	-11	281	1888	CAO
138	7792	19.10.94	-06	174	1888	DAO
139	7794	26.10.94	16	81	1888	EAO
140	7795	27.10.94	-17	101	1888	BXO
141	7796	26.10.94	-06	92	1888	BXO
142	7797	27.10.94	-09	68	1888	CSO
143	7798	30.10.94	-12	23	1888	CSO
144	7799	02.11.94	-16	114	1888	AXX
145	7800	06.11.94	12	299	1889	CAO
146	7801	09.11.94	-03	252	1889	AXX
147	7802	12.11.94	-14	265	1889	AXX
148	7803	11.11.94	-16	258	1889	AXX
149	7804	11.11.94	-06	265	1889	AXX
150	7806	12.11.94	06	215	1889	AXX
151	7807	16.11.94	-11	266	1889	BXO
152	7809	17.11.94	-06	237	1889	BXO
153	7810	21.11.94	13	90	1889	AXX
154	7811	26.11.94	-16	102	1889	DAO
155	7812	26.11.94	-15	88	1889	AXX
156	7813	04.12.94	-08	280	1890	AXX
157	7814	08.12.94	-14	252	1890	CAO
158	7815	09.12.94	-09	229	1890	BXO
159	7817	18.12.94	02	104	1890	CSO
160	7818	18.12.94	-15	105	1890	AXX
161	7819	19.12.94	07	182	1890	AXX
162	7820	23.12.94	06	154	1890	AXX
163	7821	25.12.94	-10	52	1890	BXO
164	7822	28.12.94	-11	33	1890	AXX
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### CV-Helios Network Annual Final Report for 1994

#### ZÜRICH/McINTOSH-CLASSIFICATIONS DISTRIBUTION for the year 1994

A	B	C	D	E	F	H
AXX	BXO	CRO	DRO	ERO	FRO	HRX
37,8 %	22,6 %	3,0 %	1,2 %			
	BXI	CRI	DRI	ERI	FRI	HAX
	1,2 %		0,6 %			
		CAO	DAO	EAO	FAO	HSX
		7,3 %	5,5 %	0,6 %		
		CAI	DAI	EAI	FAI	HKX
		CSO	DSO	ESO	FSO	HHX
		14,6 %	2,4 %			
		CSI	DSI	ESI	FSI	
		CKO	DAC	EAC	FAC	
		0,6 %			0,6 %	
		CKI	DSC	ESC	FSC	
		0,6 %				
		CHO	DKO	EKO	FKO	
		0,6 %				
		CHI	DKI	EKI	FKI	
			DHO	EHO	FHO	
			0,6 %			
			DHI	EHI	FHI	
			DKC	EKC	FKC	
			DHC	EHC	FHC	

**SUNSPOT CLASS**

1st letter

		<b>164</b>
A	<b>62</b>	37,8 %
B	<b>39</b>	23,8 %
C	<b>44</b>	26,8 %
D	<b>17</b>	10,4 %
E	<b>1</b>	0,6 %
F	<b>1</b>	0,6 %
H	<b>0</b>	0,0 %

**MAIN SUNSPOT TYPE**

2nd letter

		<b>164</b>
X	<b>101</b>	61,6 %
R	<b>8</b>	4,9 %
A	<b>23</b>	14,0 %
S	<b>28</b>	17,1 %
K	<b>2</b>	1,2 %
H	<b>2</b>	1,2 %

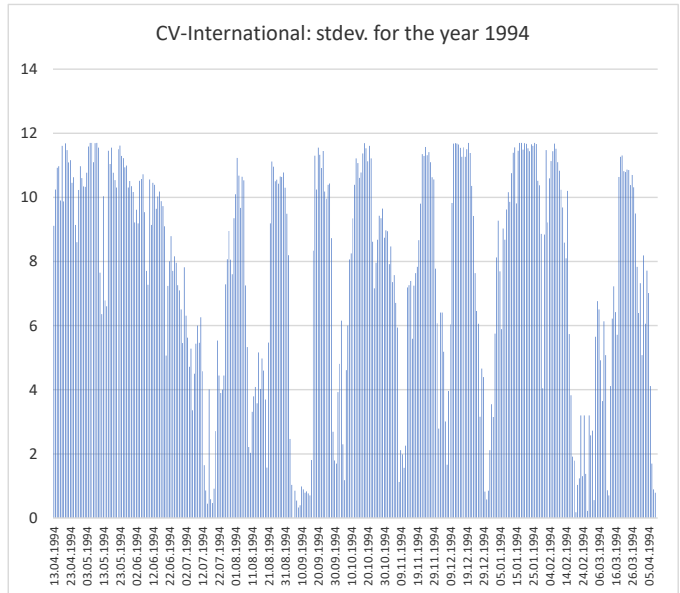
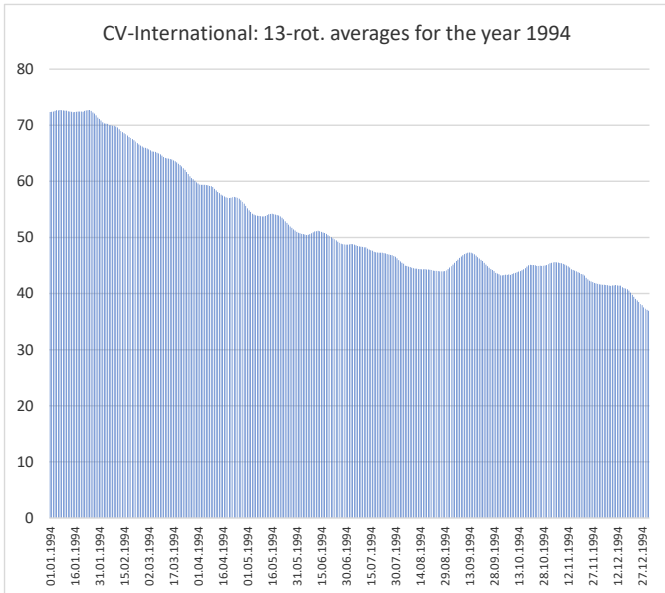
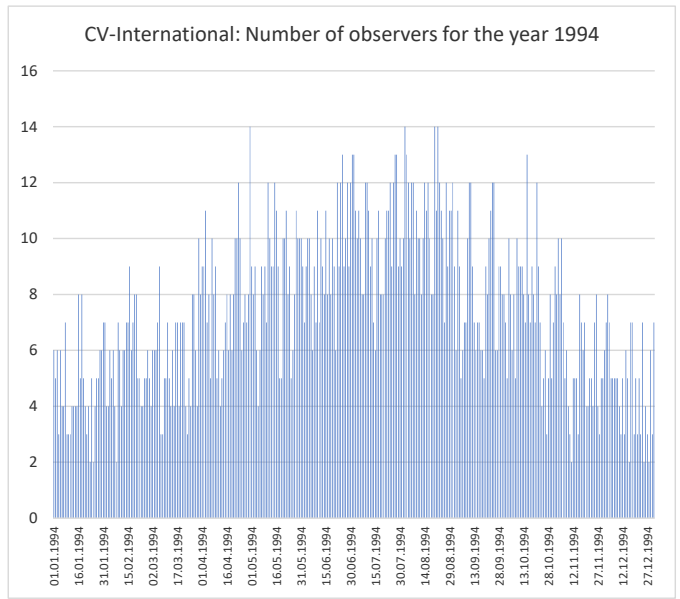
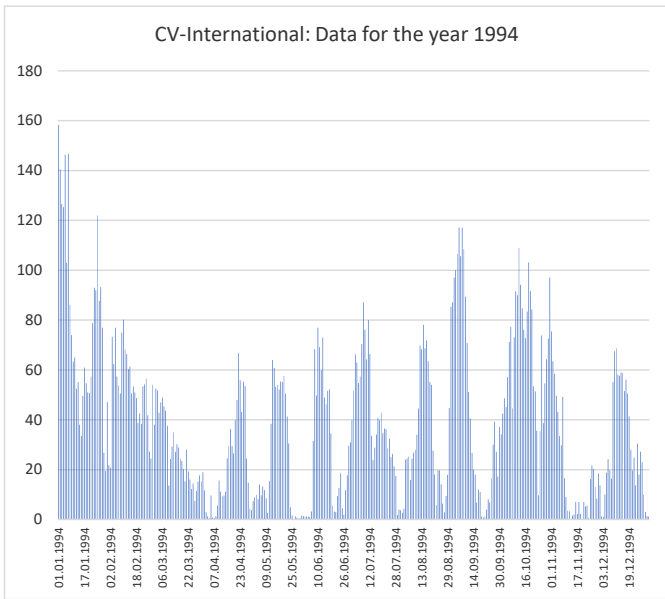
**SUNSPOT DISTRIBUTION**

3rd letter

		<b>164</b>
X	<b>62</b>	37,8 %
O	<b>97</b>	59,1 %
I	<b>4</b>	2,4 %
C	<b>1</b>	0,6 %

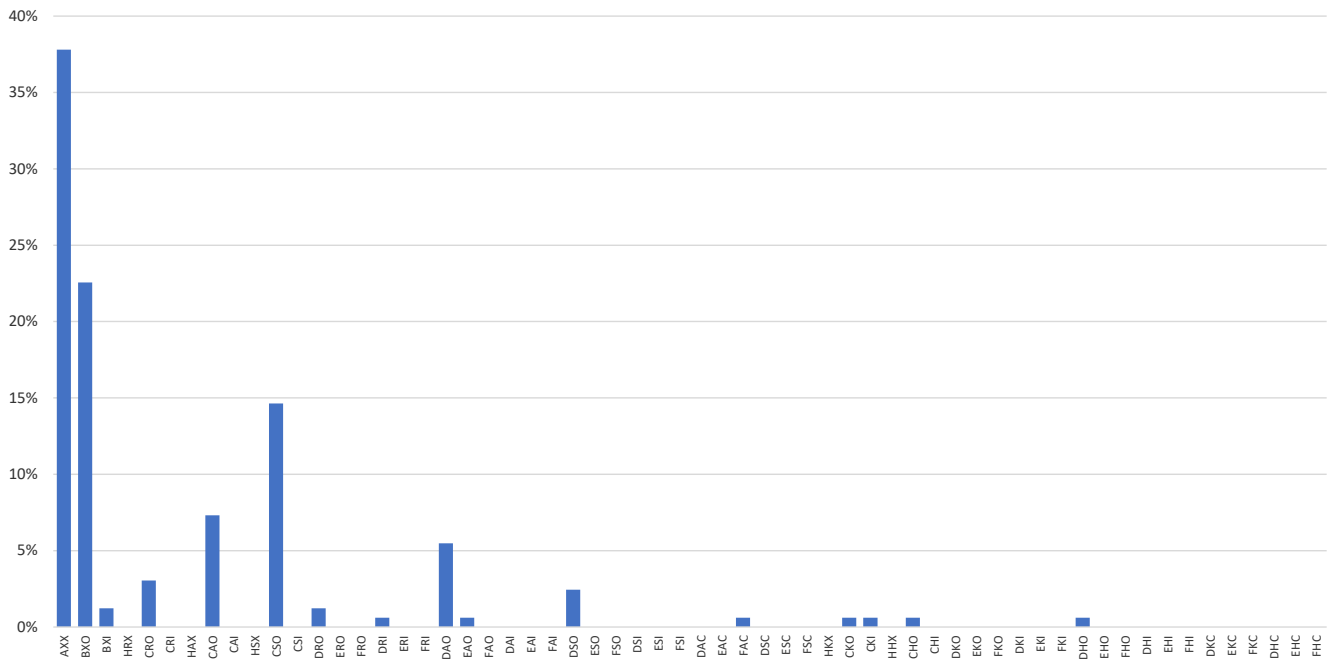
# CV-Helios Network Annual Final Report for 1994

## Graphics for the year 1994

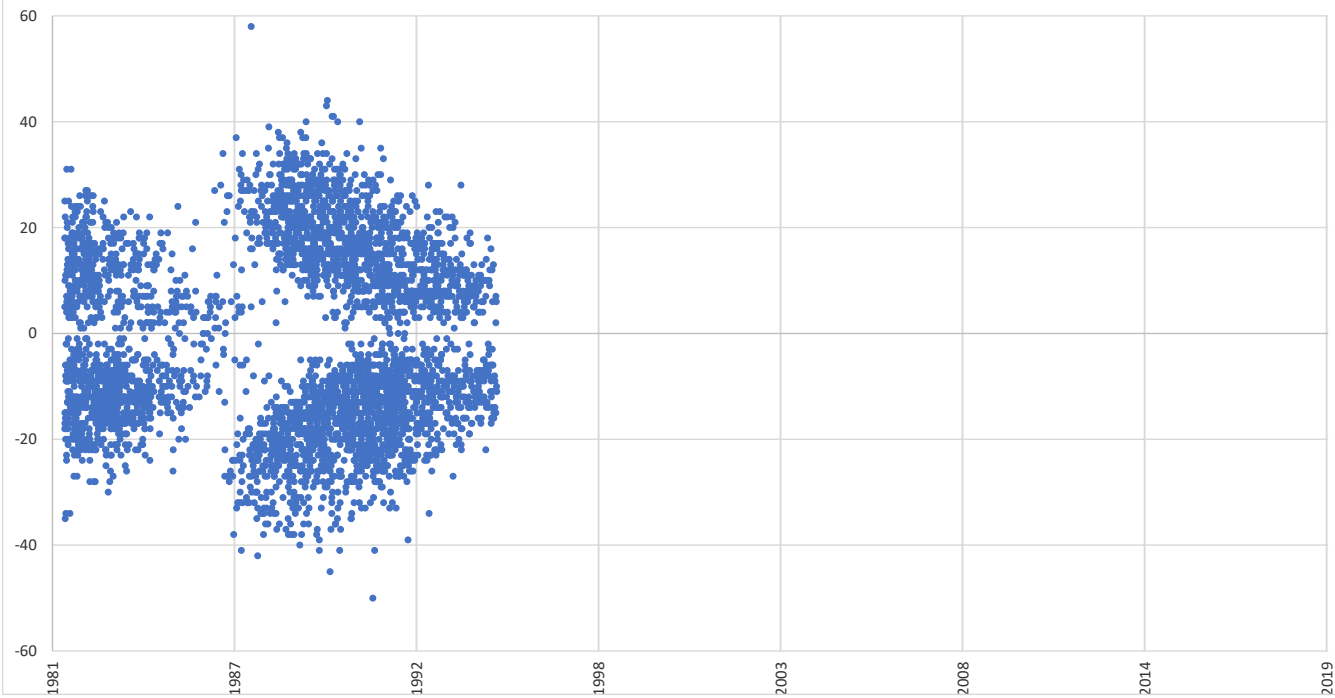


### CV-Helios Network Annual Final Report for 1994

Zürich/McIntosh-classifications denoted by NOAA/USAF for the year 1994



RGO/NOAA-USAF Sunspot Regions 1981-1994



## CV-Helios Network Annual Final Report for 1994

**CV-Helios Network - over 13 years in solar amateur astronomy service!**

There are now 1072 entries registered  
containing 15192 CV-observations!

**This AFR issued 1st April 1995**

### **CV-Helios Network**

Director/Coordinator: Kjell Inge Malde

Phone: +47 98 69 28 56

[cvhelios@gmail.com](mailto:cvhelios@gmail.com)

[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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