

# Monthly Final Report

## MFR

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### CV-Helios Network

**Monthly Final Report for July 2003**

**Solar Cycle 23: Month no. 85**

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Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	96,0	27	0,937	4602
CV-010	DUBOIS, FRANKY	BELGIUM	102,1	29	0,997	3946
CV-012	HEEN, LARS TRYGVGE	NORWAY	123,3	7	1,203	741
CV-014	GÖTZ, MARTIN	DENMARK	131,1	7	1,280	1168
CV-019	JUNKER, ELMAR	GERMANY	124,3	15	1,214	1414
CV-020	HOLL, MANFRED	GERMANY	72,4	25	0,707	2104
CV-021	BARNES, HOWARD	NEW ZEALAND	137,0	20	1,337	2242
CV-022	VIERTHEL, ANDREAS	GERMANY	87,5	18	0,854	2517
CV-023	BRETSCHNEIDER, HARTMUT	GERMANY	80,8	24	0,789	1798
CV-032	EGGER, FRITZ	SWITZERLAND	103,1	25	1,006	1787
CV-034	VVS BELGIUM,	BELGIUM	138,1	30	1,348	1404
CV-038	MORALES, GERMAN	BOLIVIA	95,7	31	0,935	1717
CV-040	BATTAIOLA, ROBERTO	ITALY	114,3	21	1,116	808
CV-041	ROTHERMEL, JENS	GERMANY	145,4	15	1,419	788
CV-044	SCHRÖDER, GERD	GERMANY	98,0	19	0,957	973
CV-047	CARLSON, JIM	UNITED STATES	78,6	17	0,768	1078
CV-049	MARTIN-SMITH, MICHAEL	UNITED KINGDOM	75,8	6	0,740	257
CV-055	ASTRO UNISON, MEXICO	MEXICO	76,3	3	0,745	854
CV-059	PAWLUTSCHENKO, BEN	AUSTRALIA	78,7	6	0,768	271
CV-064	STRICKLING, WOLFGANG	GERMANY	64,3	3	0,628	642
CV-068	THIMM, SVEN OVE	DENMARK	91,9	25	0,897	980
CV-071	HICKMANN, RICO	GERMANY	116,5	24	1,137	678
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	97,5	19	0,952	302
CV-086	TOS-POLAND	POLAND	105,9	31	1,033	1362
CV-089	SZATKOWSKI, KRZYSIEK	POLAND	111,9	17	1,093	531
CV-091	DALEK, GRZEGORZ	POLAND	104,8	16	1,023	660
CV-095	ANDRESEN, BIRGER	NORWAY	84,1	25	0,821	388
CV-104	MEEUS, LIEVE	BELGIUM	103,2	15	1,007	408
CV-105	RYBACK, ALEXEY	RUSSIA	131,7	29	1,285	479
CV-107	LEVENTHAL, MONTY	AUSTRALIA	115,4	20	1,126	583
CV-116	BJERKGÅRD, TERJE	NORWAY	80,9	7	0,789	114
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	89,2	9	0,871	307
CV-128	NELIBA, VLASTIMIL	CZECH REPUBLIC	108,0	26	1,054	363
CV-130	VARGAS, LUCIMARY	BRAZIL	115,1	7	1,124	87
CV-135	ARAUJO, GEMA	SPAIN	105,7	26	1,031	525
CV-136	GARCÍA, FAUSTINO	SPAIN	102,9	12	1,005	169
CV-139	ALONSO, JAVIER	SPAIN	77,1	22	0,753	104
CV-142	SUZUKI, MIYOSHI	JAPAN	86,0	15	0,839	29
CV-145	WILLMANN, BJØRN	NORWAY	100,5	23	0,981	66
CV-146	GONZÁLEZ COROAS, ANGEL ALBERTO	CUBA	83,9	31	0,819	61
<b>Totals</b>	<b>Observers</b>	<b>Days</b>	<b>CV</b>	<b>No</b>	<b>K</b>	
	<b>40</b>	<b>31</b>	<b>100,88</b>	<b>747</b>	<b>0,985</b>	

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### Results

Date	CV	Obsrvrs	USAF	std.dev.	CV-6 rot.	CV-13 rot.
1	105,4	16	89,08	11,57	85,83	113,22
2	93,5	22	77,00	11,70	85,87	113,29
3	91,8	19	75,29	11,70	85,95	113,37
4	96,3	18	79,81	11,68	85,97	113,45
5	93,9	16	77,40	11,70	85,93	113,49
6	94,0	22	77,51	11,70	85,79	113,44
7	110,0	25	93,74	11,47	85,74	113,38
8	117,3	28	101,32	11,26	85,86	113,32
9	113,0	23	96,89	11,39	85,93	113,25
10	68,9	30	52,86	11,32	85,72	113,08
11	57,2	20	41,98	10,76	85,43	112,88
12	62,6	21	46,99	11,05	85,24	112,60
13	96,5	27	80,00	11,68	85,33	112,39
14	112,4	26	96,29	11,41	85,72	112,18
15	104,9	26	88,55	11,58	86,03	111,90
16	100,7	27	84,28	11,64	86,27	111,53
17	123,4	25	107,74	11,05	86,66	111,19
18	117,2	28	101,24	11,27	87,02	110,88
19	150,0	29	136,36	9,67	87,47	110,70
20	185,1	27	175,25	6,95	88,00	110,64
21	189,5	28	180,25	6,54	88,56	110,62
22	156,8	26	143,73	9,22	88,91	110,49
23	150,1	22	136,42	9,67	89,25	110,34
24	117,7	23	101,74	11,25	89,54	110,16
25	54,7	26	39,73	10,61	89,30	110,00
26	36,1	29	23,48	8,92	89,10	109,83
27	40,6	20	27,27	9,42	89,01	109,63
28	80,0	26	63,55	11,61	89,28	109,51
29	78,4	22	61,99	11,58	89,62	109,52
30	70,0	28	53,97	11,36	89,97	109,49
31	66,0	22	50,11	11,20	90,29	109,39
Totals/ Avrgs	<b>102,45</b>	<b>24,1</b>	<b>85,87</b>	<b>10,77</b>	<b>87,24</b>	<b>111,59</b>

Updated 13.04.2018 08:37 UTC