

# *Monthly Final Report* **MFR**

Kjell Inge Malde, Director/Editor  
Böreholen 20, N-4085 Hundvaag NORWAY

Web: <http://www.cv-helios.net>  
Email: [cvhelios@gmail.com](mailto:cvhelios@gmail.com)

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**CV-Helios Network**  
**Monthly Final Report for December 2004**  
**Solar Cycle 23: Month no. 102**

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Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	21,6	9	0,960	4900
CV-010	DUBOIS, FRANKY	BELGIUM	39,2	14	1,746	4313
CV-019	JUNKER, ELMAR	GERMANY	16,6	5	0,739	1646
CV-020	HOLL, MANFRED	GERMANY	11,0	4	0,490	2319
CV-021	BARNES, HOWARD	NEW ZEALAND	23,3	8	1,035	2429
CV-022	VIERTEL, ANDREAS	GERMANY	11,8	9	0,525	2766
CV-023	BRETSCHNEIDER, HARTMUT	GERMANY	17,8	5	0,793	2068
CV-034	VVS BELGIUM,	BELGIUM	28,0	18	1,247	1843
CV-036	BROMME, HEIKO	GERMANY	4,5	4	0,200	624
CV-038	MORALES, GERMAN	BOLIVIA	20,3	26	0,903	2208
CV-040	BATTAIOLA, ROBERTO	ITALY	38,2	5	1,701	933
CV-043	JOHNSON, ROBERT A.	UNITED STATES	27,1	13	1,206	708
CV-044	SCHRÖDER, GERD	GERMANY	19,8	16	0,882	1266
CV-055	ASTRO UNISON, MEXICO	MEXICO	14,8	14	0,658	1020
CV-059	PAWLUTSCHENKO, BEN	AUSTRALIA	17,3	9	0,772	381
CV-068	THIMM, SVEN OVE	DENMARK	16,9	8	0,752	1280
CV-076	LOADER, PAULINE	NEW ZEALAND	15,4	5	0,686	518
CV-082	URBANSKI, PIOTR	POLAND	20,9	7	0,929	1232
CV-086	TOS-POLAND	POLAND	25,9	31	1,155	1879
CV-089	SZATKOWSKI, KRZYSIEK	POLAND	27,3	7	1,215	677
CV-091	DALEK, GRZEGORZ	POLAND	20,1	9	0,896	968
CV-102	MOSER, PAULO ROBERTO	BRAZIL	38,3	3	1,707	518
CV-105	RYBACK, ALEXEY	RUSSIA	26,9	7	1,196	736
CV-107	LEVENTHAL, MONTY	AUSTRALIA	35,9	21	1,597	910
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	20,9	7	0,929	514
CV-128	NELIBA, VLASTIMIL	CZECH REPUBLIC	35,3	12	1,574	720
CV-129	MUSIALSKI, PAWEL	POLAND	31,0	1	1,381	105
CV-135	ARAUJO, GEMA	SPAIN	26,7	29	1,187	962
CV-139	ALONSO, JAVIER	SPAIN	14,6	8	0,651	220
CV-146	GONZÁLEZ COROAS, ANGEL ALBERTO	CUBA	15,7	31	0,700	578
CV-149	JOSHI, BHARGAV	INDIA	4,3	24	0,193	146
CV-152	SZCZUREK, MAGDALENA	POLAND	15,0	2	0,668	23
CV-153	JASKULSKA, KRYSZYNA	POLAND	13,9	10	0,619	10
CV-207	ONDREJOV OBSERVATORY (AI CAS)	CZECH REPUBLIC	39,8	11	1,773	540
<b>Totals</b>	Observers	Days	CV	No	K	
	34	31	22,23	392	0,990	

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### Results

Date	CV	Obsrvrs	USAF	std.dev.	CV-6 rot.	CV-13 rot.
1	47,8	14	55	5,10	60,96	58,35
2	46,5	13	70	16,59	60,56	58,36
3	39,1	11	39	0,06	60,18	58,31
4	41,4	10	35	4,53	59,90	58,28
5	27,1	13	28	0,65	59,53	58,21
6	20,5	13	26	3,86	59,27	58,08
7	12,6	10	9	2,55	59,08	57,87
8	10,2	14	10	0,15	59,01	57,66
9	4,0	10	13	6,36	58,87	57,44
10	6,8	12	28	15,03	58,78	57,23
11	18,3	16	19	0,49	58,80	57,04
12	14,4	11	19	3,28	58,79	56,83
13	14,0	7	22	5,66	58,75	56,66
14	13,9	8	25	7,87	58,71	56,53
15	5,0	15	27	15,56	58,66	56,38
16	9,3	17	25	11,11	58,67	56,25
17	31,5	11	55	16,65	58,81	56,19
18	18,0	17	31	9,19	58,88	56,10
19	15,8	13	13	2,01	58,92	56,08
20	17,7	18	23	3,73	58,83	56,09
21	27,4	16	23	3,09	58,74	56,01
22	17,1	11	32	10,54	58,53	55,82
23	36,5	8	21	10,96	58,26	55,69
24	27,1	11	28	0,64	57,65	55,54
25	17,4	22	29	8,23	57,02	55,40
26	13,9	14	11	2,02	56,51	55,25
27	17,5	11	7	7,46	55,95	55,07
28	29,2	10	30	0,57	55,29	54,91
29	31,9	9	66	24,12	54,62	54,77
30	41,2	14	57	11,16	54,03	54,65
31	35,7	13	47	8,00	53,44	54,53
Totals/ Avrgs	<b>22,45</b>	<b>12,6</b>	<b>29,77</b>	<b>7,01</b>	<b>58,19</b>	<b>56,50</b>