

Monthly Final Report**MFR**Kjell Inge Malde, Director/Editor
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CV-Helios Network**Monthly Final Report for March 2003****Solar Cycle 23: Month no. 81****Report id.: cv0303.pdf - CV-report no.: 260**

Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGE	NORWAY	116,0	17	1,266	4503
CV-010	DUBOIS, FRANKY	BELGIUM	81,6	25	0,891	3835
CV-014	GÖTZ, MARTIN	DENMARK	118,7	21	1,295	1104
CV-019	JUNKER, ELMAR	GERMANY	74,6	17	0,814	1345
CV-020	HOLL, MANFRED	GERMANY	46,4	17	0,506	2009
CV-021	BARNES, HOWARD	NEW ZEALAND	109,8	8	1,198	2173
CV-022	VIERTEL, ANDREAS	GERMANY	90,3	21	0,986	2459
CV-023	BRETSCHNEIDER, HARTMUT	GERMANY	64,9	16	0,709	1710
CV-032	EGGER, FRITZ	SWITZERLAND	77,1	27	0,841	1693
CV-034	VVS BELGIUM,	BELGIUM	86,4	27	0,943	1285
CV-036	BROMME, HEIKO	GERMANY	6,0	2	0,065	518
CV-037	WYDRA, KRZYSZTOF	POLAND	127,2	5	1,388	601
CV-038	MORALES, GERMAN	BOLIVIA	110,1	27	1,202	1596
CV-040	BATTAIOLA, ROBERTO	ITALY	84,0	6	0,917	744
CV-041	ROTHERMEL, JENS	GERMANY	178,0	2	1,943	738
CV-044	SCHRÖDER, GERD	GERMANY	79,8	18	0,871	893
CV-047	CARLSON, JIM	UNITED STATES	84,3	13	0,920	1015
CV-049	MARTIN-SMITH, MICHAEL	UNITED KINGDOM	69,5	6	0,758	234
CV-055	ASTRO UNISON, MEXICO	MEXICO	89,1	10	0,972	801
CV-064	STRICKLING, WOLFGANG	GERMANY	51,3	4	0,559	632
CV-068	THIMM, SVEN OVE	DENMARK	95,7	21	1,044	881
CV-071	HICKMANN, RICO	GERMANY	67,8	4	0,739	608
CV-076	LOADER, PAULINE	NEW ZEALAND	93,0	20	1,015	405
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	77,6	19	0,847	216
CV-082	URBANSKI, PIOTR	POLAND	95,2	24	1,039	834
CV-085	DECKERT, ANN CHRISTIN	GERMANY	77,8	4	0,848	93
CV-086	TOS-POLAND	POLAND	105,9	31	1,155	1240
CV-089	SZATKOWSKI, KRZYSIEK	POLAND	121,2	28	1,323	485
CV-091	DALEK, GRZEGORZ	POLAND	94,4	26	1,030	573
CV-095	ANDRESEN, BIRGER	NORWAY	109,6	8	1,196	293
CV-103	STEEN, OCTAAF	BELGIUM	86,6	27	0,945	675
CV-104	MEEUS, LIEVE	BELGIUM	89,9	20	0,981	343
CV-105	RYBACK, ALEXEY	RUSSIA	106,1	16	1,158	381
CV-107	LEVENTHAL, MONTY	AUSTRALIA	99,6	19	1,087	506
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	90,7	20	0,989	233
CV-128	NELIBA, VLASTIMIL	CZECH REPUBLIC	113,6	23	1,240	259
CV-135	ARAUJO, GEMA	SPAIN	96,3	21	1,051	426
CV-136	GARCÍA, FAUSTINO	SPAIN	70,5	19	0,770	110
CV-137	RODRÍGUEZ RODRÍGUEZ, JAVIER RAMÓN	SPAIN	86,8	15	0,947	98
CV-139	ALONSO, JAVIER	SPAIN	70,5	20	0,769	33
Totals	Observers 40	Days 31	CV 89,84	No 674	K 0,980	

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Results

Date	CV	Obsrvrs	USAF	std.dev.	CV-6 rot.	CV-13 rot.
1	87,4	18	70,86	11,69	112,60	129,95
2	105,0	11	88,63	11,57	112,07	129,97
3	91,5	15	74,92	11,70	111,51	129,89
4	87,9	11	71,37	11,69	111,03	129,80
5	100,8	10	84,34	11,64	110,71	129,73
6	81,6	17	65,19	11,63	110,12	129,63
7	111,1	21	94,96	11,44	109,71	129,58
8	113,1	19	96,94	11,39	109,30	129,57
9	131,8	15	116,69	10,69	109,19	129,67
10	117,5	24	101,58	11,26	108,89	129,71
11	127,4	11	111,97	10,89	109,00	129,72
12	117,5	22	101,53	11,26	109,21	129,69
13	73,6	26	57,36	11,47	109,22	129,52
14	86,8	20	70,22	11,69	109,23	129,42
15	97,5	23	80,97	11,67	109,24	129,35
16	93,6	29	77,04	11,70	109,32	129,29
17	93,0	23	76,41	11,70	109,25	129,18
18	92,8	26	76,30	11,70	109,10	129,06
19	83,0	29	66,52	11,65	108,88	128,90
20	44,0	22	30,24	9,76	108,37	128,62
21	11,0	24	4,81	4,41	107,66	128,19
22	5,4	30	1,64	2,64	106,76	127,72
23	20,6	31	11,29	6,57	105,92	127,27
24	48,5	29	34,16	10,15	105,16	126,90
25	68,5	26	52,55	11,30	104,49	126,60
26	84,6	25	68,06	11,67	103,81	126,28
27	114,8	25	98,72	11,34	103,44	126,01
28	152,6	23	139,12	9,51	103,55	125,85
29	175,1	21	164,09	7,81	103,75	125,79
30	167,6	26	155,71	8,42	103,84	125,69
31	169,1	22	157,40	8,30	103,81	125,69
Totals/ Avrgs	91,63	21,7	80,70	10,33	108,01	128,46

Updated 13.04.2018 08:35 UTC