

Monthly Final Report MFR

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CV-Helios Network

Monthly Final Report for December 2003

Solar Cycle 23: Month no. 90

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Memno.	Name	Country	CV	Obs	K	Obs. Tot.
CV-001	MALDE, KJELL INGGE	NORWAY	58,3	12	1,005	4691
CV-010	DUBOIS, FRANKY	BELGIUM	50,3	14	0,868	4053
CV-014	GÖTZ, MARTIN	DENMARK	74,7	3	1,288	1210
CV-019	JUNKER, ELMAR	GERMANY	46,1	9	0,796	1483
CV-020	HOLL, MANFRED	GERMANY	36,8	6	0,636	2172
CV-021	BARNES, HOWARD	NEW ZEALAND	68,3	9	1,179	2303
CV-022	VIERTEL, ANDREAS	GERMANY	45,6	10	0,787	2575
CV-023	BRETSCHNEIDER, HARTMUT	GERMANY	48,3	7	0,833	1881
CV-032	EGGER, FRITZ	SWITZERLAND	41,7	15	0,719	1870
CV-034	VVS BELGIUM,	BELGIUM	88,3	15	1,524	1527
CV-038	MORALES, GERMAN	BOLIVIA	65,5	26	1,130	1863
CV-040	BATTAIOLA, ROBERTO	ITALY	69,5	6	1,199	857
CV-041	ROTHERMEL, JENS	GERMANY	90,0	5	1,553	838
CV-044	SCHRÖDER, GERD	GERMANY	58,9	16	1,016	1058
CV-047	CARLSON, JIM	UNITED STATES	60,8	13	1,050	1150
CV-055	ASTRO UNISON, MEXICO	MEXICO	62,2	13	1,072	916
CV-059	PAWLUTSCHENKO, BEN	AUSTRALIA	46,5	6	0,802	296
CV-064	STRICKLING, WOLFGANG	GERMANY	99,0	1	1,708	659
CV-068	THIMM, SVEN OVE	DENMARK	52,3	12	0,902	1068
CV-071	HICKMANN, RICO	GERMANY	55,3	6	0,955	745
CV-076	LOADER, PAULINE	NEW ZEALAND	101,6	5	1,753	433
CV-077	JOHNSTON, ANDREW	UNITED KINGDOM	40,4	7	0,698	369
CV-082	URBANSKI, PIOTR	POLAND	49,8	13	0,859	1008
CV-086	TOS-POLAND	POLAND	62,6	30	1,080	1513
CV-089	SZATKOWSKI, KRZYSIEK	POLAND	63,3	10	1,092	616
CV-091	DALEK, GRZEGORZ	POLAND	57,5	13	0,992	762
CV-102	MOSER, PAULO ROBERTO	BRAZIL	71,2	15	1,229	372
CV-104	MEEUS, LIEVE	BELGIUM	51,0	10	0,880	477
CV-105	RYBACK, ALEXEY	RUSSIA	53,8	4	0,927	542
CV-107	LEVENTHAL, MONTY	AUSTRALIA	72,9	17	1,259	686
CV-122	FEIK, VLASTISLAV	CZECH REPUBLIC	53,8	9	0,928	368
CV-128	NELIBA, VLASTIMIL	CZECH REPUBLIC	63,9	13	1,103	474
CV-129	MUSIALSKI, PAWEL	POLAND	31,0	1	0,535	29
CV-135	ARAUJO, GEMA	SPAIN	71,6	19	1,235	641
CV-136	GARCÍA, FAUSTINO	SPAIN	41,3	14	0,712	253
CV-139	ALONSO, JAVIER	SPAIN	32,0	4	0,552	151
CV-142	SUZUKI, MIYOSHI	JAPAN	48,9	25	0,843	143
CV-146	GONZÁLEZ COROAS, ANGEL ALBERTO	CUBA	41,9	31	0,724	214
Totals	Observers 38	Days 31	CV 58,60	No 444	K 1,011	

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Results

Date	CV	Obsrvrs	USAF	std.dev.	CV-6 rot.	CV-13 rot.
1	107,8	8	91,46	11,52	88,76	88,84
2	87,0	8	70,47	11,69	88,77	88,84
3	69,7	9	53,62	11,34	88,72	88,78
4	60,6	8	45,13	10,95	88,67	88,50
5	76,6	10	60,28	11,54	88,61	88,24
6	53,5	13	38,65	10,53	88,40	87,95
7	45,2	20	31,24	9,87	88,13	87,55
8	32,3	14	20,35	8,44	87,55	87,13
9	24,9	17	14,55	7,35	86,89	86,74
10	29,5	24	18,11	8,06	86,33	86,35
11	38,9	16	25,86	9,25	85,93	85,98
12	36,1	14	23,46	8,92	85,51	85,65
13	41,5	10	28,04	9,52	85,19	85,37
14	58,6	17	43,26	10,84	84,99	85,36
15	49,9	17	35,42	10,26	84,70	85,40
16	52,3	17	37,53	10,44	84,45	85,45
17	67,5	14	51,57	11,27	84,29	85,53
18	86,8	19	70,31	11,69	84,15	85,72
19	84,7	16	68,18	11,67	83,95	85,89
20	83,5	13	67,05	11,66	83,77	86,04
21	78,4	12	62,04	11,58	83,83	86,15
22	87,1	17	70,53	11,69	84,01	86,32
23	84,6	16	68,06	11,67	84,14	86,46
24	72,0	22	55,89	11,42	83,99	86,49
25	61,4	16	45,83	10,99	83,68	86,39
26	58,9	14	43,57	10,86	83,40	86,30
27	55,4	16	40,37	10,65	83,12	86,17
28	53,3	12	38,39	10,51	82,70	85,98
29	46,9	16	32,71	10,02	82,27	85,72
30	24,0	10	13,83	7,19	81,50	85,48
31	12,9	9	5,98	4,89	80,45	85,17
Totals/ Avrgs	57,95	14,3	44,25	10,27	85,19	86,51

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