

# Monthly Final Report

## MFR

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### CV-Helios Network

#### Monthly Final Report for September 2003

#### Solar Cycle 23: Month no. 87

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| Memno.        | Name                              | Country           | CV                 | Obs              | K                 | Obs. Tot. |
|---------------|-----------------------------------|-------------------|--------------------|------------------|-------------------|-----------|
| CV-001        | MALDE, KJELL INGE                 | NORWAY            | 65,9               | 14               | 1,124             | 4640      |
| CV-010        | DUBOIS, FRANKY                    | BELGIUM           | 46,3               | 30               | 0,791             | 4004      |
| CV-014        | GÖTZ, MARTIN                      | DENMARK           | 82,1               | 12               | 1,401             | 1195      |
| CV-019        | JUNKER, ELMAR                     | GERMANY           | 57,7               | 18               | 0,985             | 1445      |
| CV-020        | HOLL, MANFRED                     | GERMANY           | 43,1               | 25               | 0,736             | 2151      |
| CV-021        | BARNES, HOWARD                    | NEW ZEALAND       | 59,0               | 8                | 1,007             | 2263      |
| CV-022        | VIERTTEL, ANDREAS                 | GERMANY           | 47,1               | 15               | 0,804             | 2544      |
| CV-023        | BRETSCHNEIDER, HARTMUT            | GERMANY           | 44,9               | 24               | 0,766             | 1849      |
| CV-032        | EGGER, FRITZ                      | SWITZERLAND       | 48,2               | 22               | 0,822             | 1829      |
| CV-034        | VVS BELGIUM,                      | BELGIUM           | 131,3              | 28               | 2,241             | 1463      |
| CV-038        | MORALES, GERMAN                   | BOLIVIA           | 73,6               | 30               | 1,255             | 1778      |
| CV-040        | BATTAIOLA, ROBERTO                | ITALY             | 51,4               | 14               | 0,878             | 845       |
| CV-041        | ROTHERMEL, JENS                   | GERMANY           | 89,9               | 10               | 1,534             | 822       |
| CV-044        | SCHRÖDER, GERD                    | GERMANY           | 51,3               | 21               | 0,876             | 1008      |
| CV-047        | CARLSON, JIM                      | UNITED STATES     | 51,6               | 19               | 0,880             | 1113      |
| CV-049        | MARTIN-SMITH, MICHAEL             | UNITED KINGDOM    | 33,5               | 6                | 0,572             | 269       |
| CV-055        | ASTRO UNISON, MEXICO              | MEXICO            | 46,3               | 11               | 0,790             | 876       |
| CV-059        | PAWLUTSCHENKO, BEN                | AUSTRALIA         | 73,0               | 3                | 1,246             | 279       |
| CV-064        | STRICKLING, WOLFGANG              | GERMANY           | 41,0               | 4                | 0,700             | 651       |
| CV-068        | THIMM, SVEN OVE                   | DENMARK           | 55,7               | 17               | 0,951             | 1027      |
| CV-071        | HICKMANN, RICO                    | GERMANY           | 56,3               | 12               | 0,960             | 717       |
| CV-077        | JOHNSTON, ANDREW                  | UNITED KINGDOM    | 53,9               | 18               | 0,920             | 346       |
| CV-082        | URBANSKI, PIOTR                   | POLAND            | 61,5               | 22               | 1,050             | 958       |
| CV-085        | DECKERT, ANN CHRISTIN             | GERMANY           | 93,0               | 1                | 1,587             | 103       |
| CV-086        | TOS-POLAND                        | POLAND            | 62,5               | 30               | 1,066             | 1423      |
| CV-089        | SZATKOWSKI, KRZYSIEK              | POLAND            | 67,3               | 18               | 1,149             | 578       |
| CV-091        | DALEK, GRZEGORZ                   | POLAND            | 57,2               | 27               | 0,976             | 712       |
| CV-095        | ANDRESEN, BIRGER                  | NORWAY            | 52,1               | 17               | 0,889             | 431       |
| CV-102        | MOSER, PAULO ROBERTO              | BRAZIL            | 75,1               | 15               | 1,281             | 326       |
| CV-104        | MEEUS, LIEVE                      | BELGIUM           | 49,0               | 21               | 0,837             | 444       |
| CV-105        | RYBACK, ALEXEY                    | RUSSIA            | 78,3               | 19               | 1,336             | 517       |
| CV-107        | LEVENTHAL, MONTY                  | AUSTRALIA         | 57,5               | 24               | 0,981             | 629       |
| CV-122        | FEIK, VLASTISLAV                  | CZECH REPUBLIC    | 54,1               | 16               | 0,922             | 340       |
| CV-128        | NELIBA, VLASTIMIL                 | CZECH REPUBLIC    | 72,6               | 27               | 1,238             | 420       |
| CV-129        | MUSIALSKI, PAWEL                  | POLAND            | 53,4               | 13               | 0,911             | 25        |
| CV-135        | ARAUJO, GEMA                      | SPAIN             | 56,6               | 29               | 0,966             | 585       |
| CV-136        | GARCÍA, FAUSTINO                  | SPAIN             | 30,7               | 19               | 0,524             | 208       |
| CV-137        | RODRÍGUEZ RODRÍGUEZ, JAVIER RAMÓN | SPAIN             | 73,4               | 12               | 1,253             | 126       |
| CV-139        | ALONSO, JAVIER                    | SPAIN             | 38,4               | 17               | 0,655             | 134       |
| CV-142        | SUZUKI, MIYOSHI                   | JAPAN             | 53,8               | 24               | 0,917             | 77        |
| CV-145        | WILLMANN, BJØRN                   | NORWAY            | 45,2               | 13               | 0,770             | 98        |
| CV-146        | GONZÁLEZ COROAS, ANGEL ALBERTO    | CUBA              | 37,6               | 30               | 0,642             | 122       |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
|               |                                   |                   |                    |                  |                   |           |
| <b>Totals</b> | Observers<br><b>42</b>            | Days<br><b>30</b> | CV<br><b>58,87</b> | No<br><b>755</b> | K<br><b>1,004</b> |           |

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### Results

| Date             | CV           | Obsrvrs     | USAF         | std.dev.     | CV-6 rot.    | CV-13 rot.   |
|------------------|--------------|-------------|--------------|--------------|--------------|--------------|
| 1                | 59,8         | 23          | 44,40        | 10,91        | 93,28        | 103,19       |
| 2                | 53,4         | 28          | 38,55        | 10,52        | 93,58        | 102,95       |
| 3                | 41,8         | 26          | 28,31        | 9,55         | 93,71        | 102,70       |
| 4                | 51,8         | 21          | 37,10        | 10,40        | 93,73        | 102,49       |
| 5                | 52,9         | 26          | 38,06        | 10,48        | 93,63        | 102,26       |
| 6                | 45,3         | 29          | 31,31        | 9,88         | 93,39        | 102,00       |
| 7                | 31,9         | 28          | 20,00        | 8,38         | 92,88        | 101,64       |
| 8                | 18,7         | 21          | 9,94         | 6,20         | 92,07        | 101,18       |
| 9                | 20,3         | 24          | 11,11        | 6,52         | 91,12        | 100,70       |
| 10               | 31,1         | 19          | 19,35        | 8,27         | 90,29        | 100,27       |
| 11               | 32,5         | 22          | 20,56        | 8,48         | 89,46        | 99,90        |
| 12               | 34,2         | 20          | 21,87        | 8,68         | 88,73        | 99,56        |
| 13               | 32,4         | 27          | 20,42        | 8,45         | 88,04        | 99,15        |
| 14               | 33,8         | 33          | 21,57        | 8,64         | 87,24        | 98,74        |
| 15               | 36,5         | 29          | 23,80        | 8,97         | 86,57        | 98,34        |
| 16               | 39,3         | 27          | 26,20        | 9,29         | 86,00        | 98,03        |
| 17               | 60,9         | 27          | 45,34        | 10,97        | 85,69        | 97,73        |
| 18               | 74,6         | 27          | 58,37        | 11,49        | 85,63        | 97,63        |
| 19               | 69,3         | 28          | 53,26        | 11,33        | 85,65        | 97,59        |
| 20               | 72,6         | 27          | 56,45        | 11,44        | 85,67        | 97,59        |
| 21               | 75,9         | 29          | 59,63        | 11,53        | 85,83        | 97,57        |
| 22               | 81,7         | 27          | 65,21        | 11,63        | 86,02        | 97,53        |
| 23               | 84,1         | 20          | 67,60        | 11,66        | 86,19        | 97,54        |
| 24               | 87,9         | 29          | 71,33        | 11,69        | 86,34        | 97,49        |
| 25               | 86,4         | 26          | 69,90        | 11,68        | 86,50        | 97,40        |
| 26               | 80,0         | 22          | 63,63        | 11,61        | 86,68        | 97,29        |
| 27               | 91,9         | 23          | 75,37        | 11,70        | 87,17        | 97,19        |
| 28               | 91,5         | 24          | 74,91        | 11,70        | 87,60        | 97,09        |
| 29               | 89,5         | 21          | 72,93        | 11,70        | 87,92        | 96,91        |
| 30               | 102,3        | 22          | 85,84        | 11,62        | 88,20        | 96,76        |
|                  |              |             |              |              |              |              |
| Totals/<br>Avrgs | <b>58,61</b> | <b>25,2</b> | <b>44,41</b> | <b>10,18</b> | <b>88,83</b> | <b>99,21</b> |

Updated 13.04.2018 08:38 UTC