

B. Solar Radio Emission  
 B1. Daily Data at Hiraiso  
 500 MHz

Hiraiso

October 2003

| Single-frequency total flux observations at 500 MHz       |       |       |       |       |      |
|---|-------|-------|-------|-------|------|
| Flux density: $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ |       |       |       |       |      |
| Date \ UT   | 00-03 | 03-06 | 06-09 | 21-24 | Day  |
| 1   | 29    | 27    | 28    | 31    | 29   |
| 2   | 29    | 26    | 25    | 31    | 28   |
| 3   | 29    | 26    | 26    | 31    | 28   |
| 4   | 29    | 26    | 27    | 30    | 28   |
| 5   | 28    | 26    | 27    | 28    | 28   |
| 6   | 28    | 28    | 28    | 29    | 28   |
| 7   | 29    | 28    | 29    | 28    | 28   |
| 8   | 28    | 28    | 28    | 30    | 29   |
| 9   | 29    | 28    | 28    | 28    | 28   |
| 10  | 28    | 27    | 27    | 27    | 27   |
| 11  | 27    | 26    | 26    | 26    | 26   |
| 12  | 27    | 28    | 27    | 27    | 27   |
| 13  | 26    | 27    | 26    | 26    | 26   |
| 14  | 26    | 27    | 25    | 27    | 27   |
| 15  | 27    | 25    | 24    | 28    | 26   |
| 16  | 27    | 25    | 24    | 29    | 26   |
| 17  | 27    | 26    | 26    | 30    | 28   |
| 18  | 28    | 28    | 28    | 35    | 30   |
| 19  | 30    | 29    | 29    | 32    | 30   |
| 20  | 31    | 30    | 29    | 42    | 34   |
| 21  | 44    | 51    | 40    | 35    | 43   |
| 22  | 37    | 46    | 60    | 33    | 41   |
| 23  | 33    | 31    | 30    | 43    | 35   |
| 24  | 37    | 36    | 37    | 40    | 39   |
| 25  | 40    | 47    | 49    | 67    | 51   |
| 26  | 72    | 60    | 58    | 40    | 59   |
| 27  | 38    | 48    | 47    | 56    | 46   |
| 28  | 44    | 68    | 63    | 88    | 64   |
| 29  | 167   | 221   | 124   | 749*  | 310* |
| 30  | 110   | 51    | 48    | 99    | 81   |
| 31  | 55    | 49    | 41    | 45    | 49   |

Note: No data is available during the following periods.  
 13rd 2015 - 16th 0100

A superscript \* stands for being superposed on a burst.

B. Solar Radio Emission  
B2.Outstanding Occurrences at Hiraiso

Hiraiso

October 2003

| Single-frequency observations                                 |                |        |                         |                              |                |   |      |              |
|---|----------------|--------|-------------------------|------------------------------|----------------|---|------|--------------|
| Normal observing period: 2040 - 0805 U.T. (sunrise to sunset) |                |        |                         |                              |                |   |      |              |
| OCT.<br>2003  | FREQ.<br>(MHz) | TYPE   | START<br>TIME<br>(U.T.) | TIME OF<br>MAXIMUM<br>(U.T.) | DUR.<br>(MIN.) | FLUX DENSITY<br>( $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ ) |      | POLARIZATION |
|   |                |        |                         |                              |                | PEAK  | MEAN | REMARKS      |
| 1   | 2800           | 1 S    | 0422.0                  | 0422.0                       | 2.0            | 10  | -    | 0            |
| 1   | 500            | 8 S    | 0431.0                  | 0431.0                       | 2.0            | 10  | -    | 0            |
| 1   | 2800           | 1 S    | 0447.0                  | 0449.0                       | 3.0            | 10  | -    | 0            |
| 2   | 2800           | 1 S    | 0357.0                  | 0358.0                       | 6.0            | 15  | -    | 0            |
| 2   | 500            | 7 C    | 0357.0                  | 0358.0                       | 5.0            | 15  | -    | WR           |
| 2   | 2800           | 3 S    | 0651.0                  | 0653.0                       | 7.0            | 50  | -    | 0            |
| 2   | 500            | 7 C    | 0652.0                  | 0655.0                       | 5.0            | 45  | -    | WR           |
| 3   | 500            | 8 S    | 0226.0                  | 0226.0                       | 1.0            | 40  | -    |              |
| 5   | 500            | 42 SER | 0110.0                  | 0110.0                       | 9.0            | 25  | -    | 0            |
| 5   | 500            | 8 S    | 0535.0                  | 0535.0                       | 1.0            | 10  | -    | 0            |
| 6   | 500            | 7 C    | 0100.0                  | 0103.0                       | 7.0            | 35  | -    | 0            |
| 6   | 500            | 6 S    | 2235.0                  | 2235.0                       | 1.0            | 15  | -    | 0            |
| 7   | 500            | 8 S    | 0352.0                  | 0353.0                       | 1.0            | 40  | -    | 0            |
| 7   | 2800           | 1 S    | 2351.0                  | 2353.0                       | 5.0            | 20  | -    | 0            |
| 9   | 2800           | 1 S    | 2338.0                  | 2340.0                       | 5.0            | 10  | -    | 0            |
| 12  | 500            | 8 S    | 0034.0                  | 0034.0                       | 1.0            | 10  | -    | 0            |
| 18  | 500            | 8 S    | 0620.0                  | 0621.0                       | 1.0            | 15  | -    | 0            |
| 19  | 2800           | 4 S/F  | 0615.0                  | 0621.0                       | 8.0            | 35  | -    | 0            |
| 19  | 500            | 7 C    | 0616.0                  | 0621.0                       | 12.0           | 10  | -    | 0            |
| 20  | 500            | 22 GRF | 0026.0                  | 0113.0                       | 79.0           | 25  | -    | WR           |
| 20  | 500            | 8 S    | 0537.0                  | 0537.0                       | 1.0            | 10  | -    | 0            |
| 21  | 2800           | 3 S    | 0344.0                  | 0346.0                       | 12.0           | 160   | -    | 0            |
| 21  | 500            | 7 C    | 0344.0                  | 0346.0                       | 5.0            | 310   | -    | WL           |
| 21  | 500            | 8 S    | 0040.0                  | 0040.0                       | 1.0            | 45  | -    | 0            |
| 21  | 500            | 8 S    | 0433.0                  | 0433.0                       | 1.0            | 45  | -    | WL           |
| 21  | 500            | 8 S    | 2126.0                  | 2128.0                       | 2.0            | 45  | -    | 0            |
| 21  | 2800           | 8 S    | 2247.0                  | 2247.0                       | 1.0            | 85  | -    | SR           |
| 22  | 500            | 8 S    | 0101.0                  | 0101.0                       | 1.0            | 85  | -    | WR           |
| 22  | 500            | 8 S    | 0111.0                  | 0111.0                       | 1.0            | 35  | -    | 0            |
| 22  | 500            | 7 C    | 0330.0                  | 0334.0                       | 5.0            | 95  | -    | 0            |
| 22  | 500            | 7 C    | 0414.0                  | 0414.0                       | 3.0            | 300   | -    | 0            |
| 22  | 2800           | 4 S/F  | 0327.0                  | 0330.0                       | 10.0           | 350   | -    | 0            |
| 22  | 2800           | 3 S    | 0426.0                  | 0430.0                       | 21.0           | 160   | -    | 0            |
| 22  | 500            | 7 C    | 2242.0                  | 2244.0                       | 4.0            | 35  | -    | 0            |
| 23  | 500            | 7 C    | 0238.0                  | 0241.0                       | 4.0            | 255   | -    | 0            |
| 23  | 500            | 47 GB  | 0705.0                  | 0707.0                       | 3.0            | 530   | -    | MR           |
| 23  | 2800           | 8 S    | 0116.0                  | 0116.0                       | 1.0            | 45  | -    | 0            |
| 23  | 2800           | 8 S    | 0239.0                  | 0240.0                       | 2.0            | 40  | -    | MR           |
| 23  | 2800           | 8 S    | 0523.0                  | 0523.0                       | 1.0            | 35  | -    | 0            |
| 23  | 2800           | 8 S    | 0706.0                  | 0706.0                       | 1.0            | 120   | -    | SR           |
| 23  | 2800           | 42 SER | 2200.0                  | 2200.0                       | 50.0           | 65  | -    | 0            |
| 23  | 500            | 42 SER | 2200.0                  | 2218.0                       | 26.0           | 35  | -    | 0            |
| 24  | 2800           | 3 S    | 0507.0                  | 0510.0                       | 9.0            | 95  | -    | 0            |
| 24  | 2800           | 8 S    | 0620.0                  | 0620.0                       | 1.0            | 65  | -    | 0            |
| 24  | 500            | 47 GB  | 0506.0                  | 0509.0                       | 10.0           | 1995  | -    | 0            |
| 24  | 500            | 47 GB  | 2135.0                  | 2140.0                       | 11.0           | 950   | -    | MR           |
| 25  | 500            | 8 S    | 0016.0                  | 0016.0                       | 2.0            | 20  | -    | 0            |

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B2.Outstanding Occurrences at Hiraiso

Hiraiso

October 2003

| Single-frequency observations                                 |       |        |            |                 |        |   |      |              |
|---|-------|--------|------------|-----------------|--------|---|------|--------------|
| Normal observing period: 2040 - 0805 U.T. (sunrise to sunset) |       |        |            |                 |        |   |      |              |
| OCT.  | FREQ. | TYPE   | START TIME | TIME OF MAXIMUM | DUR.   | FLUX DENSITY  |      | POLARIZATION |
|   |       |        |            |                 |        | (10 <sup>-22</sup> W m <sup>-2</sup> Hz <sup>-1</sup> ) |      |              |
| 2003  | (MHz) |        | (U.T.)     | (U.T.)          | (MIN.) | PEAK  | MEAN | REMARKS      |
| 25  | 500   | 47 GB  | 0153.0     | 0156.0          | 7.0    | 600   | -    | 0            |
| 25  | 500   | 7 C    | 0258.0     | 0300.0          | 3.0    | 445   | -    | WR           |
| 25  | 500   | 7 C    | 0337.0     | 0341.0          | 7.0    | 290   | -    | 0            |
| 25  | 500   | 4 S/F  | 0436.0     | 0444.0          | 20.0   | 85  | -    | 0            |
| 25  | 500   | 8 S    | 0516.0     | 0517.0          | 2.0    | 50  | -    | 0            |
| 25  | 500   | 4 S/F  | 0525.0     | 0528.0          | 16.0   | 50  | -    | 0            |
| 25  | 500   | 7 C    | 0547.0     | 0558.0          | 14.0   | 100   | -    | WR           |
| 25  | 2800  | 1 S    | 0258.0     | 0259.0          | 2.0    | 25  | -    | 0            |
| 25  | 2800  | 1 S    | 0414.0     | 0428.0          | 20.0   | 35  | -    | 0            |
| 25  | 2800  | 7 C    | 0537.0     | 0548.0          | 20.0   | 130   | -    | 0            |
| 26  | 500   | 47 GB  | 0613.0     | /////           | ////   | 4420  | -    | MR           |
| 26  | 2800  | 47 GB  | 0610.0     | /////           | ////   | 2670  | -    | 0            |
| 27  | 500   | 8 S    | 0621.0     | 0621.0          | 1.0    | 50  | -    | 0            |
| 27  | 500   | 8 S    | 2356.0     | 2356.0          | 1.0    | 40  | -    | WR           |
| 27  | 2800  | 1 S    | 2306.0     | 2307.0          | 3.0    | 25  | -    | 0            |
| 27  | 2800  | 1 S    | 2356.0     | 2357.0          | 1.0    | 25  | -    | 0            |
| 28  | 2800  | 3 S    | 0058.0     | 0059.0          | 2.0    | 55  | -    | 0            |
| 28  | 2800  | 1 S    | 0136.0     | 0137.0          | 2.0    | 30  | -    | 0            |
| 28  | 2800  | 8 S    | 0337.0     | 0337.0          | 1.0    | 35  | -    | WL           |
| 28  | 2800  | 1 S    | 0510.0     | 0510.0          | 3.0    | 70  | -    | 0            |
| 28  | 500   | 8 S    | 0051.0     | 0051.0          | 1.0    | 105   | -    | MR           |
| 28  | 500   | 8 S    | 0058.0     | 0059.0          | 2.0    | 115   | -    | MR           |
| 28  | 500   | 8 S    | 0227.0     | 0227.0          | 1.0    | 25  | -    | WL           |
| 28  | 500   | 8 S    | 2305.0     | 2305.0          | 1.0    | 380   | -    | WL           |
| 28  | 500   | 8 S    | 2355.0     | 2356.0          | 1.0    | 100   | -    | WL           |
| 29  | 2800  | 23 GRF | 0026.0     | 0042.0          | 32.0   | 80  | -    | 0            |
| 29  | 2800  | 47 GB  | 0438.0     | 0456.0          | 45.0   | 645   | -    | 0            |
| 29  | 500   | 7 C    | 0026.0     | 0041.0          | 58.0   | 445   | -    | ML           |
| 29  | 500   | 47 GB  | 0433.0     | 0502.0          | 50.0   | 925   | -    | 0            |
| 30  | 2800  | 1 S    | 0157.0     | 0159.0          | 4.0    | 25  | -    | 0            |
| 30  | 2800  | 4 S/F  | 0215.0     | 0215.0          | 2.0    | 50  | -    | WL           |
| 31  | 2800  | 8 S    | 0050.0     | 0050.0          | 1.0    | 40  | -    | 0            |
| 31  | 2800  | 8 S    | 0429.0     | 0430.0          | 2.0    | 80  | -    | 0            |
| 31  | 500   | 8 S    | 0427.0     | 0428.0          | 1.0    | 215   | -    | 0            |
| 31  | 500   | 8 S    | 0511.0     | 0511.0          | 1.0    | 170   | -    | 0            |
| 31  | 500   | 8 S    | 0554.0     | 0554.0          | 1.0    | 185   | -    | 0            |
| 31  | 500   | 8 S    | 0612.0     | 0612.0          | 1.0    | 15  | -    | 0            |
| 31  | 500   | 8 S    | 2237.0     | 2238.0          | 2.0    | 225   | -    |              |

