# S O L A R  R A D I O  E M I S S I O N

## Spectral Observations

## FEBRUARY 2008

| OBSERVATION | | | EVENT | | | | | FREQUENCY | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Day | Start (UT) | End (UT) | Sta | Start (UT) | End (UT) | Spectral Class | Event Remarks | Int (1-3) | Lower (MHz) | Upper (MHz) | Remarks |
| 01 | 0000 | 0735 | CULG | | | | | | | | |
| | 0000 | 0807 | HIRA | | | | | | | | |
| | 0800 | 1432 | ONDR | | | | | | | | |
| | 0825 | 1530 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2133 | 2400 | HIRA | | | | | | | | |
| 02 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0809 | HIRA | | | | | | | | |
| | 0758 | 1434 | ONDR | | | | | | | | |
| | 0825 | 1530 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | 2156.0 | 2157.0 | III | G | 2 | 18X | 200 | |
| | | | CULG | 2305.0 | 2306.0 | III | G | 1 | 18X | 90 | |
| | | | LEAR | 2305.0 | 2312.0 | III | | 2 | 25 | 179 | |
| | | | PALE | 2305.0 | 2312.0 | III | | 2 | 25 | 180 | |
| | 2132 | 2400 | HIRA | 2305.5 | 2312.0 | III | G | 1 | 25X | 280 | |
| | | | CULG | 2309.0 | 2310.0 | III | G | 2 | 18X | 260 | |
| | | | CULG | 2312.0 | 2312.0 | III | B | 1 | 18X | 90 | |
| | | | CULG | 2316.0 | 2316.0 | III | B | 1 | 20 | 70 | |
| 03 | | | LEAR | 0008.0 | 0038.0 | III | N | 1 | 25 | 83 | |
| | 0000 | 0800 | CULG | 0017.0 | 0018.0 | III | G | 1 | 20 | 80 | |
| | 0000 | 0810 | HIRA | 0034.5 | 0038.0 | III | G | 1 | 25X | 210 | |
| | | | CULG | 0035.0 | 0038.0 | III | G | 1 | 18 | 100 | |
| | | | LEAR | 0108.0 | 0115.0 | III | | 1 | 25 | 83 | |
| | | | PALE | 0108.0 | 0115.0 | III | N | 1 | 25 | 71 | |
| | | | HIRA | 0108.5 | 0109.0 | III | G | 1 | 90 | 210 | |
| | | | CULG | 0109.0 | 0109.0 | III | B | 1 | 18 | 90 | |
| | | | HIRA | 0114.0 | 0116.0 | III | B | 1 | 90 | 210 | |
| | | | CULG | 0116.0 | 0116.0 | III | B | 1 | 18 | 90 | |
| | | | LEAR | 0141.0 | 0153.0 | III | N | 1 | 25 | 80 | |
| | | | PALE | 0141.0 | 0153.0 | III | N | 1 | 48 | 58 | |
| | | | CULG | 0142.0 | 0145.0 | III | G | 1 | 18 | 75 | |
| | | | HIRA | 0153.5 | 0154.0 | III | B | 1 | 40 | 120 | |
| | | | CULG | 0154.0 | 0154.0 | III | B | 1 | 18 | 90 | |
| | | | HIRA | 0259.0 | 0259.5 | III | B | 1 | 60 | 110 | |
| | | | CULG | 0300.0 | 0300.0 | III | B | 1 | 23 | 75 | |
| | | | LEAR | 0322.0 | 0323.0 | III | | 1 | 25 | 179 | |
| | | | CULG | 0323.0 | 0323.0 | III | G | 1 | 18X | 90 | |
| | | | HIRA | 0323.0 | 0324.0 | III | G | 1 | 30 | 230 | |
| | | | PALE | 0323.0 | 0323.0 | III | | 2 | 29 | 178 | |
| | | | LEAR | 0513.0 | 0515.0 | III | | 1 | 25 | 176 | |
| | | | HIRA | 0513.5 | 0515.0 | III | G | 1 | 25X | 210 | |
| | | | CULG | 0514.0 | 0514.0 | III | B | 1 | 20 | 70 | |
| | | | LEAR | 0550.0 | 0551.0 | III | | 1 | 25 | 178 | |
| | | | CULG | 0551.0 | 0551.0 | III | B | 1 | 18 | 80 | |
| | | | HIRA | 0551.0 | 0552.0 | III | G | 1 | 25X | 480 | |
| | | | LEAR | 0604.0 | 0606.0 | III | | 1 | 25 | 75 | |
| | | | HIRA | 0605.5 | 0606.0 | III | B | 1 | 50 | 220 | |
| | 0756 | 1436 | ONDR | | | | | | | | |
| | | | SVTO | 0817.0 | 0952.0 | III | N | 1 | 25 | 74 | |
| | | | LEAR | 0844.0 | 0844.0 | III | | 1 | 25 | 99 | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2131 | 2400 | HIRA | | | | | | | | |
| 04 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0812 | HIRA | | | | | | | | |
| | 0754 | 1439 | ONDR | | | | | | | | |
| | 0825 | 1530 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2130 | 2400 | HIRA | | | | | | | | |
| 05 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0813 | HIRA | | | | | | | | |
| | | | LEAR | 0445.0 | 0445.0 | III | | 1 | 25 | 52 | |
| | 0752 | 1430 | ONDR | | | | | | | | |
| | 0815 | 1530 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2130 | 2400 | HIRA | | | | | | | | |

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## Spectral Observations

## FEBRUARY 2008

| OBSERVATION | | | | EVENT | | | | | FREQUENCY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | Start (UT) | End (UT) | Sta | Start (UT) | End (UT) | Spectral Class | Event Remarks | Int (1-3) | Lower (MHz) | Upper (MHz) | Remarks |
| 06 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0814 | HIRA | | | | | | | | |
| | 0750 | 1443 | ONDR | | | | | | | | |
| | 0810 | 1530 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2129 | 2400 | HIRA | | | | | | | | |
| 07 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0815 | HIRA | | | | | | | | |
| | 0748 | 1445 | ONDR | | | | | | | | |
| | 0810 | 1535 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2128 | 2400 | HIRA | | | | | | | | |
| 08 | | | LEAR | 0659.0 | 0701.0 | III | | 2 | 25 | 180 | |
| | 0000 | 0816 | HIRA | 0659.5 | 0701.5 | III | G | 1 | 25X | 230 | |
| | | | SVTO | 0700.0 | 0701.0 | III | | 1 | 25 | 149 | |
| | 0000 | 0800 | CULG | 0700.0 | 0702.0 | III | G | 1 | 20 | 90 | |
| | 0746 | 1447 | ONDR | | | | | | | | |
| | 0805 | 1535 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2127 | 2400 | HIRA | | | | | | | | |
| 09 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0817 | HIRA | | | | | | | | |
| | 0744 | 1450 | ONDR | | | | | | | | |
| | 0800 | 1540 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2126 | 2400 | HIRA | | | | | | | | |
| 10 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0818 | HIRA | | | | | | | | |
| | 0741 | 1437 | ONDR | | | | | | | | |
| | 0755 | 1540 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2125 | 2400 | HIRA | | | | | | | | |
| 11 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0819 | HIRA | | | | | | | | |
| | 0739 | 1451 | ONDR | | | | | | | | |
| | 0745 | 1540 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2124 | 2400 | HIRA | | | | | | | | |
| 12 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0820 | HIRA | | | | | | | | |
| | 0737 | 1456 | ONDR | | | | | | | | |
| | 0745 | 1540 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2123 | 2400 | HIRA | | | | | | | | |
| 13 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0821 | HIRA | | | | | | | | |
| | 0735 | 1458 | ONDR | | | | | | | | |
| | 0745 | 1540 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2122 | 2400 | HIRA | | | | | | | | |
| 14 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0822 | HIRA | | | | | | | | |
| | 0733 | 1445 | ONDR | | | | | | | | |
| | 0745 | 1545 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2121 | 2400 | HIRA | | | | | | | | |
| 15 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0823 | HIRA | | | | | | | | |
| | 0731 | 1502 | ONDR | | | | | | | | |
| | 0740 | 1545 | BLEN | | | | | | | | |

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## FEBRUARY 2008

| OBSERVATION | | | | EVENT | | | | | FREQUENCY | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | Start (UT) | End (UT) | Sta | Start (UT) | End (UT) | Spectral Class | Event Remarks | Int (1-3) | Lower (MHz) | Upper (MHz) | Remarks |
| 15 | 2000 | 2400 | CULG | | | | | | | | |
| | 2120 | 2400 | HIRA | | | | | | | | |
| 16 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0824 | HIRA | | | | | | | | |
| | 0728 | 1505 | ONDR | | | | | | | | |
| | 0740 | 1545 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2118 | 2400 | HIRA | | | | | | | | |
| 17 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0825 | HIRA | | | | | | | | |
| | 0726 | 1507 | ONDR | | | | | | | | |
| | 0740 | 1545 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2117 | 2400 | HIRA | | | | | | | | |
| 18 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0826 | HIRA | | | | | | | | |
| | 0724 | 1509 | ONDR | | | | | | | | |
| | 0735 | 1100 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2116 | 2400 | HIRA | | | | | | | | |
| 19 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0827 | HIRA | | | | | | | | |
| | 0722 | 1511 | ONDR | | | | | | | | |
| | 0735 | 1550 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2115 | 2400 | HIRA | | | | | | | | |
| 20 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0828 | HIRA | | | | | | | | |
| | 0720 | 1513 | ONDR | | | | | | | | |
| | 0730 | 1550 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2114 | 2400 | HIRA | | | | | | | | |
| 21 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0829 | HIRA | | | | | | | | |
| | 0717 | 1515 | ONDR | | | | | | | | |
| | 0730 | 1550 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2113 | 2400 | HIRA | | | | | | | | |
| 22 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0830 | HIRA | | | | | | | | |
| | 0715 | 1517 | ONDR | | | | | | | | |
| | 0730 | 1550 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2112 | 2400 | HIRA | | | | | | | | |
| 23 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0831 | HIRA | | | | | | | | |
| | 0713 | 1519 | ONDR | | | | | | | | |
| | 0730 | 1555 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2111 | 2400 | HIRA | | | | | | | | |
| 24 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0832 | HIRA | | | | | | | | |
| | 0711 | 1521 | ONDR | | | | | | | | |
| | 0730 | 1600 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2109 | 2400 | HIRA | | | | | | | | |
| 25 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0833 | HIRA | | | | | | | | |
| | 0708 | 1523 | ONDR | | | | | | | | |

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## Spectral Observations

## FEBRUARY 2008

| OBSERVATION | | | | EVENT | | | | FREQUENCY | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | Start (UT) | End (UT) | Sta | Start (UT) | End (UT) | Spectral Class | Event Remarks | Int (1-3) | Lower (MHz) | Upper (MHz) | Remarks |
| 25 | 0730 | 1600 | BLEN | | | | | | | | |
| | | | SVTO | 1045.0 | 1045.0 | III | | 1 | 74 | 156 | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2107 | 2400 | HIRA | | | | | | | | |
| 26 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0834 | HIRA | | | | | | | | |
| | 0706 | 1525 | ONDR | | | | | | | | |
| | 0725 | 1600 | BLEN | | | | | | | | |
| | | | SGMR | 1846.0 | 1846.0 | III | | 1 | 30 | 180 | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2106 | 2400 | HIRA | | | | | | | | |
| 27 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0834 | HIRA | | | | | | | | |
| | 0704 | 1527 | ONDR | | | | | | | | |
| | 0725 | 1600 | BLEN | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2105 | 2400 | HIRA | | | | | | | | |
| 28 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0835 | HIRA | | | | | | | | |
| | 0702 | 1518 | ONDR | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2104 | 2400 | HIRA | | | | | | | | |
| 29 | 0000 | 0800 | CULG | | | | | | | | |
| | 0000 | 0836 | HIRA | | | | | | | | |
| | 0659 | 1531 | ONDR | | | | | | | | |
| | 2000 | 2400 | CULG | | | | | | | | |
| | 2103 | 2400 | HIRA | | | | | | | | |

Event Remarks:

B = Single burst
C = Underlyling continuum (particularly with Type I)
DC = Drifting chains
DP = Drifting pairs
F = Fundamental emission (Type II)
FS = Fine structures (Type IV)
G = Small group of bursts (<10)
GG = Large group of bursts (>10)
H = Herringbone
HARM = Harmonic
N = Intermittent activity in this period
MOV = Moving (Type IV)
MWB = Meter wave burst
RS = Reverse slope burst
S = Storm in the sense of intermittent but apparently connected actively
SH = Secondary harmonic emission
STA = Stationary (Type IV)
U = U-shaped burst of Type III
UE = Uncertain emission (Type II)
W = Weak

Frequency qualifiers:

X = Extends beyond instrument range
U = Uncertain frequency

Remarks:

SWF = Associated short wave fade observed
ESS = Estimated shock speed in km/s (Type II)
FLA = Associated flare observed (class optional)

Stations Reporting:

CULG = Culgoora  IZMI = Izmiran  LEAR = Learmonth  ONDR = Ondrejov  BLEN = Bleien
PALE = Palehua  POTS = Potsdam  SGMR = Sagamore Hill  SVTO = San Vito

NOTE 1: Beginning June 26, 2001, the Bleien observatory changed to higher frequencies (1-4Ghz).
NOTE 2: Potsdam has reduced sensitivity in the 400-800 MHz range.