S O L A R R A D I O E M I S S I O N
Spectral Observations

JANUARY 2006

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
01			LEAR	0112.0	0112.0	III		1	31	150	
	0000	0734	HIRA	0112.0	0112.5	III	B	1	50	130	
	0000	0800	CULG	0112.0	0112.0	III	B	1	30	90	
			HIRA	0154.0	0155.0	III	B	3	50	210	
			LEAR	0154.0	0155.0	III		2	30	180	
			CULG	0155.0	0155.0	III	G	1	27	140	
	0813	1413	POTS								
	0839	1332	ONDR								
	0900	1450	BLEN								
			SVTO	1215.0	1215.0	III		1	76	174	
			LEAR	2250.0	2250.0	III		1	25	180	
	2148	2400	HIRA	2250.5	2251.0	III	B	1	25X	200	
	2000	2400	CULG	2251.0	2251.0	III	B	1	20	90	
02	0000	0734	HIRA								
	0000	0800	CULG								
	0838	1334	ONDR								
	0900	1450	BLEN								
	0813	1416	POTS	0951.4	0951.9	III	GG	2	200U	250	
			POTS	1132.2	1132.8	III	G	1	200U	250	
			SVTO	1145.0	1145.0	III		1	73	180	
	2000	2400	CULG								
	2148	2400	HIRA								
03			LEAR	0055.0	0108.0	III		2	29	180	
			PALE	0055.0	0057.0	III		1	25	150	
	0000	0800	CULG	0055.0	0057.0	III	G	1	20	130	
			LEAR	0108.0	0108.0	III		2	29	180	
			LEAR	0125.0	0126.0	III		1	25	180	
			PALE	0125.0	0126.0	III		1	25	120	
	0000	0735	HIRA	0125.5	0126.0	III	B	1	25X	200	
			CULG	0126.0	0126.0	III	B	1	27	90	
			LEAR	0233.0	0235.0	III		1	26	157	
			HIRA	0233.5	0234.0	III	B	1	25X	150	
			CULG	0234.0	0234.0	III	B	1	25	90	
			LEAR	0249.0	0249.0	III		2	25	180	
			HIRA	0249.5	0250.0	III	G	1	50	190	
			CULG	0250.0	0250.0	III	B	1	25	90	
			CULG	0331.0	0331.0	III	B	1	27	60	
			LEAR	0338.0	0340.0	III		2	52	180	
			HIRA	0338.5	0340.5	III	G	1	90	230	
			LEAR	0511.0	0514.0	III		2	79	146	
			HIRA	0511.5	0514.5	III	G	1	80	120	
			LEAR	0642.0	0642.0	III		1	88	180	
			HIRA	0642.5	0643.0	III	B	1	50	110	
			CULG	0652.0	0652.0	III	B	2	23	60	
			CULG	0715.0	0716.0	III	G	2	20	90	
			HIRA	0715.0	0719.0	III	G	3	40	210	
			LEAR	0715.0	0717.0	III		1	25	180	
			CULG	0717.0	0719.0	III	G	3	18	140	
			LEAR	0717.0	0718.0	V		2	25	180	
			SVTO	0717.0	0718.0	III		2	25	180	
			CULG	0738.0	0738.0	III	B	1	30	70	
			CULG	0749.0	0753.0	III	G	1	23	80	
			LEAR	0751.0	0752.0	III		1	74	180	
	0838	1335	ONDR								
			SVTO	1135.0	1137.0	III		1	46	180	
	0900	1450	BLEN	1135.7	1135.8	III	G	1	140	370	
	0813	1416	POTS	1135.9	1137.1	III	G	2	40X	400X	
			SGMR	1412.0	1413.0	III		1	30	168	
			SVTO	1412.0	1413.0	III		2	25	161	
			POTS	1413.3	1413.5	III	B	1	40X	55U	
			SGMR	1443.0	1541.0	III	N	1	30	172	
			SGMR	1620.0	1749.0	III	N	1	30	180	
	2000	2400	CULG	2026.0	2028.0	III	G	1	30	100	
			CULG	2120.0	2120.0	III	B	1	50	100	
			CULG	2221.0	2257.0	III	N	1	20	90	
			LEAR	2235.0	2240.0	III		1	75	125	
			LEAR	2255.0	2257.0	III		1	25	113	

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JANUARY 2006

Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
03	2148	2400	HIRA	2256.0	2257.0	III	G	1	25X	110	
			CULG	2355.0	2400.0	III	G	1	23	80	
			HIRA	2358.5	2359.0	III	B	1	25X	60	
04			LEAR	0036.0	0036.0	III		2	25	160	
			PALE	0036.0	0036.0	III		1	25	140	
	0000	0736	HIRA	0036.0	0036.5	III	B	1	30	130	
	0000	0800	CULG	0036.0	0036.0	III	B	1	30	100	
			CULG	0044.0	0044.0	III	B	1	30	57	
			CULG	0054.0	0056.0	III	G	1	27	90	
			HIRA	0054.0	0056.0	III	G	1	25X	130	
			LEAR	0054.0	0056.0	III		2	25	108	
			PALE	0054.0	0055.0	III		1	25U	88U	
			LEAR	0158.0	0202.0	III		1	25	104	
			CULG	0202.0	0202.0	III	B	1	30	90	
			HIRA	0202.0	0202.5	III	B	1	30	120	
			LEAR	0300.0	0301.0	III		1	25	56	
			CULG	0301.0	0301.0	III	B	1	30	50	
			LEAR	0326.0	0327.0	III		2	25	155	
			HIRA	0326.5	0327.0	III	B	1	30	110	
			CULG	0327.0	0327.0	III	B	1	27	80	
			CULG	0503.0	0505.0	III	G	2	23	75	
			HIRA	0503.0	0504.5	III	G	1	25X	80	
			LEAR	0503.0	0504.0	III		2	25U	95U	
			LEAR	0633.0	0638.0	III		2	25	147	
			CULG	0636.0	0637.0	III	G	1	20	70	
			HIRA	0636.0	0636.5	III	B	1	50	70	
			LEAR	0835.0	0836.0	III		2	45	75	
			SVTO	0835.0	0836.0	III		1	25	65	
	0837	1337	ONDR								
			LEAR	0844.0	0845.0	III		1	35U	145U	
			SVTO	0844.0	0845.0	III		1	25U	37U	
	0900	1450	BLEN								
			LEAR	0939.0	0943.0	III		2	25	155	
	0810	1416	POTS	0939.9	0943.1	III	G,N,U	2	40X	300	
			SVTO	0942.0	0943.0	V		2	29	141	
			POTS	1055.7	1055.9	III	G	2	200U	260	
			LEAR	2252.0	2256.0	III		1	25	180	
			PALE	2252.0	2255.0	III		1	25	180	
	2000	2400	CULG	2252.0	2255.0	III	G	1	25	130	
	2148	2400	HIRA	2252.0	2255.0	III	G	2	30	220	
05			LEAR	0543.0	0544.0	III		2	25	170	
	0000	0737	HIRA	0544.0	0545.0	III	G	1	25X	200	
	0000	0800	CULG	0544.0	0545.0	III	G	1	23	90	
	0810	1419	POTS	0920	0925	IV		3	40X	400X	
			LEAR	0920.0	0923.0	III		2	25	180	
			SVTO	0920.0	0922.0	V		3	25	180	
			ONDR	0920.1	0922.0	DCIM	G	3	800X	2000X	
	0837	1338	ONDR	0920.1	0921.4	DCIM	G	2	2000X	4500X	
	0900	1450	BLEN	0920.1	0926.2	II		3	110X	4000X	
			POTS	0922	0938	II	UE	3	40X	400X	
			LEAR	0923.0	0939.0	II		2	25	180	ESS 1127
			SVTO	0923.0	0939.0	II		1	25	180	ESS 0724
	2000	2400	CULG								
06			LEAR	0647.0	0649.0	III		1	25	133	
			SVTO	0647.0	0648.0	III		1	25	40	
	0000	0800	CULG	0648.0	0650.0	III	G	1	18	70	
	0038	0738	HIRA	0648.0	0648.9	III	G	1	25X	140	
	0836	1340	ONDR								
	0900	1450	BLEN								
	0810	1419	POTS	1241.9	1243.3U	DCIM		2	200U	330	
	2000	2400	CULG								
	2148	2400	HIRA								
07	0000	0800	CULG								
			LEAR	0057.0	0057.0	III		1	25	60	
	0000	0739	HIRA	0057.0	0057.5	III	B	1	25X	60	

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Spectral Observations

JANUARY 2006

Day	OBSERVATION Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
07			HIRA	0142.0	0142.5	III	B	1	25X	50	
			LEAR	0142.0	0142.0	III		1	25	71	
	0810	1422	POTS								
	0835	1342	ONDR								
	0900	1450	BLEN								
	2000	2400	CULG	2141.0	2141.0	III	B	1	23	90	
	2148	2400	HIRA								
08	0000	0740	HIRA								
	0000	0800	CULG								
	0810	1422	POTS								
	0834	1343	ONDR								
	2000	2400	CULG								
	2148	2400	HIRA								
09	0000	0741	HIRA								
	0000	0800	CULG								
	0833	1345	ONDR								
	0900	1450	BLEN								
			SVTO	0959.0	1000.0	III		1	39	73	
	0807	1425	POTS	0959.0	1001.1	III	G	2	40X	400	
	2000	2400	CULG								
	2148	2400	HIRA								
10	0000	0035	HIRA								
	0000	0800	CULG								
	0807	1425	POTS								
	0832	1347	ONDR								
	0900	1450	BLEN								
	2000	2400	CULG								
11	0000	0800	CULG								
	0804	1428	POTS								
	0832	1349	ONDR								
	0900	1455	BLEN								
			SVTO	1006.0	1006.0	III		1	38	73	
	2000	2400	CULG								
12	0000	0800	CULG								
	0804	1428	POTS								
	0830	1350	ONDR								
	0900	1455	BLEN								
	2000	2400	CULG								
13			LEAR	0004.0	0007.0	II		1	34	46	ESS 0500
	0000	0800	CULG	0005.0	0008.0	UNCLF		1	35	45	
	0801	1431	POTS								
	0829	1352	ONDR								
	0900	1455	BLEN								
	2000	2400	CULG								
14	0000	0800	CULG								
	0801	1431	POTS								
	0833	1354	ONDR								
	0900	1455	BLEN								
	2000	2400	CULG								
15	0000	0800	CULG								
			LEAR	0454.0	0455.0	III		1	34	50	
	0801	1434	POTS								
	0832	1356	ONDR								
	0900	1455	BLEN								
	2000	2400	CULG								
16	0000	0800	CULG								
	0758	1437	POTS								
	0825	1358	ONDR								
	0850	1500	BLEN								
	2000	2400	CULG								

SOLAR RADIO EMISSION
Spectral Observations

JANUARY 2006

Day	OBSERVATION Start (UT)	OBSERVATION End (UT)	Sta	EVENT Start (UT)	EVENT End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	FREQUENCY Upper (MHz)	Remarks
17	0000	0800	CULG								
	0758	1440	POTS								
	0824	1400	ONDR								
	0850	1500	BLEN								
	2000	2400	CULG								
18	0000	0800	CULG								
	0823	1402	ONDR								
	0850	1500	BLEN								
	0755	1440	POTS	1047.2	1048.1	DCIM		1	220	360	
	2000	2400	CULG								
19	0000	0800	CULG								
	0821	1405	ONDR								
	0845	1510	BLEN								
	0755	1443	POTS	1015	1116	I	S,N	1	210	360	
			POTS	1156.3	1156.9	UNCLF		1	260	370	
			POTS	1210.2	1211.3	I	S,N	1	230	300	
			POTS	1227	1441 U	I	S,N	2	200U	360	
	2000	2400	CULG								
20	0000	0800	CULG								
	0752	1446	POTS	0754 E	1427 U	I	S,N	2	200U	380	
	0820	1407	ONDR								
	0845	1510	BLEN								
21	0752	1449	POTS	0754 E	1828 U	I	S,N	1	200U	360	
	0818	1409	ONDR								
	0840	1515	BLEN								
22	0749	1449	POTS	0752 E	1132	I	S,N	2	200U	400X	
	0816	1411	ONDR								
	0840	1515	BLEN								
	2210	2400	CULG								
23	0000	0800	CULG								
	0816	1413	ONDR								
	0840	1515	BLEN								
	0746	1452	POTS	0914	0924	I	S,N	1	200	330	
	2000	2400	CULG								
24	0000	0800	CULG								
			LEAR	0246.0	0246.0	III		2	25	116	
	0813	1415	ONDR								
	0830	1520	BLEN								
	0740	1455	POTS	0958.6	0959.0	DCIM		2	330	400X	
			PALE	1929.0	1930.0	III		1	25	153	
			SGMR	1929.0	1930.0	III		1	30	180	
	2000	2400	CULG								
25	0000	0705	CULG								
	0737	1458	POTS								
	0812	1418	ONDR								
	0825	1520	BLEN								
26	0810	1420	ONDR								
	0734	1501	POTS	0819.7	0902	I	S,N	1	200U	280	
	0825	1520	BLEN								
			POTS	0958.1	1004	I	S,N	1	210	330	
			POTS	1101	1219	I	S,N	1	200	280	
	2235	2400	CULG								
27	0000	0800	CULG								
	0808	1422	ONDR								
	0825	1520	BLEN								
	0731	1504	POTS	0856	0905	I	S,N	1	200	250	
	2000	2400	CULG	2043.0	2043.0	III	B	1	25	75	
			CULG	2051.0	2052.0	III	G	1	20	90	
			CULG	2058.0	2058.0	III	B	1	30	90	

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Spectral Observations

JANUARY 2006

OBSERVATION Day	Start (UT)	End (UT)	Sta	EVENT Start (UT)	End (UT)	Spectral Class	Event Remarks	Int (1-3)	FREQUENCY Lower (MHz)	Upper (MHz)	Remarks
27			CULG	2124.0	2124.0	III	B	1	27	80	
			CULG	2135.0	2138.0	III	G	3	18	150	
			PALE	2135.0	2138.0	III		1	25	164	
			CULG	2323.0	2323.0	III	B	1	27	80	
			CULG	2346.0	2346.0	III	B	1	30	70	
28			LEAR	0206.0	0212.0	III		2	25	180	
	0000	0800	CULG	0208.0	0209.0	III	G	1	27	90	
			CULG	0212.0	0212.0	III	B	1	25	70	
	0806	1424	ONDR								
	0825	1520	BLEN								
	0725	1507	POTS	1240	1255	I	S,N	1	210	300	
	2000	2400	CULG	2125.0	2126.0	III	G	1	23	40	
			CULG	2224.0	2224.0	III	B	1	18	70	
29			LEAR	0307.0	0308.0	III		1	25	58	
	0000	0800	CULG	0307.0	0308.0	III	G	1	20	65	
	0722	1510	POTS								
			CULG	0737.0	0737.0	III	B	1	23	90	
			LEAR	0737.0	0737.0	III		2	25	105	
			SVTO	0737.0	0737.0	III		1	25	75	
	0805	1426	ONDR								
	0825	1520	BLEN								
	2000	2400	CULG								
30	0000	0800	CULG								
	0803	1429	ONDR								
	0825	1530	BLEN								
			LEAR	0905.0	0909.0	III		2	25	167	
			SVTO	0905.0	0909.0	III		1	25	151	
	0719	1513	POTS	0906.2	0908.9	III	G,N	1	40X	80U	
			SVTO	1107.0	1107.0	III		1	29	125	
			POTS	1107.7	1108.1	III	B	1	40X	80U	
	2000	2400	CULG								
31	0000	0800	CULG								
	0801	1431	ONDR								
	0825	1530	BLEN								
			LEAR	0939.0	0941.0	III		2	32U	130U	
			SVTO	0940.0	0941.0	III		1	25	84	
	0713	1516	POTS	0940.1	0941.5	III	G	1	40X	75U	
	2000	2400	CULG								

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).