SOLAR RADIO EMISSION
Spectral Observations

FEBRUARY 2005

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
01	0000	0800	CULG								
	0000	0804	HIRA								
	0758	1433	ONDR								
			SVTO	0849.0	0849.0	III		1	25	49	
	0710	1519	POTS	1030.2	1044	IV		3	40X	450U	
			POTS	1030.9	1035.3	II	UE	3	120U	400U	
	0825	1525	BLEN	1030.9	1035.1	II	H	3	100X	450	
			LEAR	1032.0	1041.0	II		2	83	180	ESS 0660
			SVTO	1032.0	1037.0	III		1	28	180	
			SVTO	1033.0	1042.0	II		1	54	180	ESS 0592
			SGMR	1704.0	1709.0	III		1	30	44	
	2000	2400	CULG								
	2137	2400	HIRA								
02	0000	0805	HIRA								
	0000	0800	CULG	0246.0	0247.0	III	G	1	23	500	
	0754	1435	ONDR								
	0825	1525	BLEN								
	0704	1522	POTS	0848 U	0917	I	S,N	1	200U	400U	
			POTS	0909.8	0910.0	III	B	1	40X	380	
			POTS	0939.6	0939.9	III	G	1	40X	340	
			POTS	1003.1	1005.8	III	GG,U	2	40X	290	
			POTS	1148	1440 U	I	S,N	2	200U	370	
	2000	2400	CULG								
	2137	2400	HIRA								
03	0000	0806	HIRA								
	0000	0800	CULG	0748.0	0748.0	III	B	1	30	180	
	0754	1438	ONDR								
	0820	1530	BLEN								
	0701	1525	POTS	1048 U	1437 U	I	S,N	1	200U	360	
	2000	2400	CULG								
	2136	2400	HIRA								
04	0000	0800	CULG	0410.0	0410.0	III	B	3	20	35	
			CULG	0436.0	0437.0	III	G	3	20	250	
			LEAR	0436.0	0436.0	III		1	25	53	
	0000	0807	HIRA	0436.0	0436.5	III	B	1	25X	50	
			CULG	0610.0	0611.0	III	G	1	35	100	
			LEAR	0610.0	0611.0	III		1	35	74	
	0752	1440	ONDR								
	0820	1530	BLEN								
	0655	1528	POTS	1059.1	1100.4	DCIM		1	210	390	
	2000	2400	CULG								
	2135	2400	HIRA								
05	0000	0808	HIRA								
	0000	0800	CULG	0627.0	0647.0	III	N	1	40	90	
			CULG	0725.0	0800.0D	III	N	1	40	90	
	0751	1442	ONDR								
	0815	1535	BLEN								
	0652	1534	POTS	1014	1052	I	S,N	1	220	330	
	2000	2400	CULG								
	2134	2400	HIRA								
06	0748	1444	ONDR								
	0646	1537	POTS	0749.9	0758	I	S,N	1	210	320	
	0000	0809	HIRA	0753.5	0754.0	III	B	1	140	270	
			POTS	0753.6	0754.7	III	GG	2	200U	420U	
	0000	0800	CULG	0754.0	0754.0	III	G	1	130	280	
	0810	1535	BLEN								
			POTS	0818	1026	I	S,N	1	220	330	
			POTS	0930.9	0931.4	III	G,U	2	200U	400U	
			POTS	1127	1145	I	S,N	2	200U	340	
			POTS	1233.4	1237.8	I	S,N	2	210	360	
			POTS	1340.6	1444 U	I	S,N	2	200U	320	
	2000	2400	CULG								
	2133	2400	HIRA								

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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
07			LEAR	0410.0	0411.0	III		1	25	137	
	0000	0800	CULG	0410.0	0411.0	III	G	3	20	160	
	0000	0810	HIRA	0410.0	0411.0	III	B	1	30	110	
			CULG	0436.0	0436.0	III	B	2	27	170	
			HIRA	0436.0	0436.5	III	B	2	50	170	
			LEAR	0436.0	0436.0	III		1	25	180	
			CULG	0530.0	0531.0	III	G	1	57	150	
			CULG	0602.0	0603.0	III	G	1	35	200	
			HIRA	0602.5	0603.0	III	B	1	70	170	
			HIRA	0618.5	0619.0	III	B	1	40	80	
			CULG	0619.0	0619.0	III	B	1	23	100	
	0746	1447	ONDR								
	0643	1154	POTS	0748 U	1441 U	I	S,N	2	200U	380	
			CULG	0751.0	0751.0	III	B	1	23	90	
	0810	1535	BLEN								
	1154	1250	POTS								40-400MHz only
	1250	1537	POTS								
	2000	2400	CULG								
	2132	2400	HIRA								
08	0000	0800	CULG								
	0000	0811	HIRA								
	0744	1449	ONDR								
	0637	1543	POTS	0747 U	1453 U	I	S,N	2	200U	380	
	0805	1535	BLEN								
	2000	2400	CULG	2057.0	2057.0	III	B	1	20	90	
	2131	2400	HIRA								
09	0000	0800	CULG	0223.0	0225.0	III	G	1	30	90	
			CULG	0307.0	0307.0	III	B	1	20	90	
			LEAR	0307.0	0307.0	III		1	25	75	
	0000	0812	HIRA	0307.5	0308.0	III	B	1	30	60	
			CULG	0605.0	0611.0	III	G	2	20	180	
			LEAR	0605.0	0609.0	III		1	25	135	
			HIRA	0605.5	0610.0	III	G	1	25X	110	
			CULG	0714.0	0715.0	III	G	1	75	170	
	0742	1451	ONDR								
	0634	1546	POTS	0744 U	1524 U	I	S,N,DC	2	200U	390	
			CULG	0752.0	0754.0	III	G	2	18	180	
			LEAR	0752.0	0808.0	III	N	1	25	180	
			SVTO	0752.0	0808.0	III	N	1	25	146	
			HIRA	0752.5	0753.5	III	G	1	60	220	
			POTS	0752.5	0800.7	III	G,N	2	40X	380	
			CULG	0758.0	0800.0D	III	G	2	20	90	
	0805	1535	BLEN	1507.9	1508.7	III	G	2	200	2300	
			SVTO	1508.0	1509.0	III		1	25	144	
			SVTO	1508.0	1509.0	III		1	25	180	
			SVTO	1508.0	1509.0	III		1	144	180	
			SGMR	1509.0	1509.0	III		1	30	151	
	2000	2400	CULG	2107.0	2108.0	III	G	3	20	180	
			PALE	2136.0	2138.0	III		1	25	180	
			CULG	2137.0	2139.0	III	G	3	18X	180	
	2130	2400	HIRA	2137.0	2138.5	III	G	2	25	130	
			HIRA	2141.5	2142.5	III	G	1	25X	50	
			CULG	2142.0	2142.0	III	G	3	20	80	
			CULG	2206.0	2206.0	III	B	1	20	90	
10	0000	0800	CULG	0000.0	0002.0	III	G	2	18	150	
	0000	0813	HIRA	0000.5	0002.0	III	G	1	25X	50	
			LEAR	0014.0	0014.0	III		2	25	141	
			PALE	0014.0	0014.0	III		1	25	180	
			HIRA	0014.5	0015.0	III	B	1	25X	120	
			CULG	0015.0	0015.0	III	B	3	18X	160	
			CULG	0019.0	0019.0	III	B	2	18	90	
			HIRA	0019.0	0019.5	III	B	1	25X	60	
			LEAR	0019.0	0019.0	III		1	25	63	
			PALE	0019.0	0019.0	III		1	25	44	
			CULG	0029.0	0208.0	I	S	1	60	180	
			CULG	0040.0	0206.0	III	N	1	20	160	

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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
10			LEAR	0110.0	0340.0	CONT		1	75	126	
			LEAR	0123.0	0123.0	III		1	25	104	
			HIRA	0123.5	0124.0	III	B	1	30	50	
			HIRA	0206.0	0206.5	III	B	1	25X	60	
			LEAR	0206.0	0206.0	III		1	25	61	
			CULG	0402.0	0403.0	III	G	1	20	80	
			CULG	0441.0	0444.0	III	G	2	18	180	
			HIRA	0441.0	0444.0	III	G	1	25X	100	
			LEAR	0441.0	0444.0	III		1	25	127	
			LEAR	0528.0	0535.0	III		2	25	180	
			HIRA	0528.5	0536.0	III	G	1	25X	200	
			CULG	0529.0	0536.0	III	GG	3	18X	200	
			CULG	0700.0	0800.0D	III	N	1	20	90	
			LEAR	0702.0	1008.0	CONT		1	67	136	
	0628	1552	POTS	0736 U	1510 U	I	S,N	2	200U	390	
	0740	1453	ONDR								
			LEAR	0753.0	0758.0	III		1	41	93	
	0805	1535	BLEN								
			LEAR	0814.0	0946.0	III	N	1	25	75	
			SVTO	0814.0	0814.0	III		1	25	47	
			SVTO	0843.0	0843.0	III		1	25	38	
			LEAR	0931.0	0932.0	III		2	25	180	
			SVTO	0931.0	0934.0	III		1	25U	83U	
			POTS	0931.7	0933.1	III	G,RS	2	40X	260	
			POTS	1040.9	1041.2	III	B	2	40X	270	
			SVTO	1041.0	1041.0	III		1	25	44	
			POTS	1057.6	1057.9	III	B,U	1	40X	60	
			POTS	1107.9	1116.2	III	G,N	2	40X	230	
			SVTO	1108.0	1108.0	III		1	25	50	
			SVTO	1129.0	1133.0	III		1	25	64	
			POTS	1129.8	1133.8	III	G,N	2	40X	350	
			SVTO	1404.0	1409.0	III		1	25	40	
			SGMR	1457.0	1459.0	III		1	30	79	
			SVTO	1457.0	1459.0	III		1	25	75	
			POTS	1457.6	1459.5	III	G	2	40X	250	
			SVTO	1510.0	1510.0	III		1	35	44	
			SVTO	1527.0	1537.0	III		1	25	45	
	2000	2400	CULG	2052.0	2120.0	III	N	1	20	90	
			CULG	2127.0	2150.0	III	N	2	18	180	
			CULG	2138.0	2210.0	I	S	1	110	180	
			CULG	2229.0	2400.0D	III	N	1	20	90	
			CULG	2249.0	2249.0	III	B	2	18	90	
	2129	2400	HIRA	2249.0	2249.5	III	B	1	25X	100	
			LEAR	2307.0	1048.0	III	N	1	25	88	
11	0000	0800	CULG	0000.0E	0800.0D	III	N	1	20	160	
			CULG	0234.0	0234.0	III	B	3	18X	90	
	0000	0814	HIRA	0234.0	0234.5	III	B	1	25X	60	
			CULG	0238.0	0526.0	I	S,C	1	60	180	
			LEAR	0243.0	0605.0	CONT		1	68	180	
			CULG	0303.0	0303.0	III	B	2	18X	60	
			CULG	0332.0	0337.0	III	G	2	20	50	
			CULG	0722.0	0727.0	III	G	1	20	300	
	0625	1555	POTS	0722.2	0726.3	UNCLF		2	200U	330	
			POTS	0723 U	1525 U	I	S,N	2	200U	390	
	0738	1455	ONDR								
	0805	1535	BLEN								
			SVTO	0810.0	1443.0	III	N	1	25	147	
			POTS	0959.0	1004.8	III	GG,N	1	40X	80U	
			POTS	1007.1	1007.2	III	B	2	110U	330	
			POTS	1123	1156	III	GG,N	1	40X	80U	
			POTS	1212.7	1212.9	III	B	1	40X	85U	
			SGMR	1227.0	1649.0	CONT		1	113	180	
			SVTO	1228.0	1556.0	CONT		1	108	180	
			POTS	1238.7	1242.4	III	GG	2	40X	300	
			POTS	1258.6	1303.2	III	GG	2	40X	150U	
			POTS	1400.2	1413.9	III	GG	1	40X	85U	
			POTS	1438.5	1444.5	III	GG	2	40X	130	
			SGMR	1633.0	1634.0	III		1	30	54	

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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
11			SGMR	1646.0	1647.0	III		1	30	48	
	2000	2400	CULG	2000.0E	2201.0	III	N	1	20	100	
			CULG	2053.0	2241.0	I	S	1	60	90	
			CULG	2056.0	2056.0	III	B	3	18	90	
			PALE	2056.0	2056.0	III		1	25	48	
			CULG	2124.0	2124.0	III	B	3	20	90	
			LEAR	2227.0	1047.0	CONT		1	69	95	
			CULG	2238.0	2400.0D	III	N	1	20	100	
	2128	2400	HIRA	2245.5	2246.5	III	G	1	25X	50	
			HIRA	2303.5	2304.0	III	B	1	25X	50	
12	0000	0800	CULG	0000.0E	0800.0D	III	N	1	18	180	
			CULG	0014.0	0257.0	I	S	1	100	180	
			CULG	0128.0	0128.0	III	G	3	20	180	
			PALE	0128.0	0128.0	III		1	25	66	
	0000	0815	HIRA	0128.0	0128.5	III	B	1	25X	70	
			CULG	0452.0	0452.0	III	B	2	18X	90	
			CULG	0458.0	0458.0	III	B	2	18X	90	
			CULG	0601.0	0601.0	III	B	3	18X	180	
			LEAR	0601.0	0601.0	III		2	25	133	
			HIRA	0601.5	0602.0	III	B	2	25X	230	
			SVTO	0609.0	0610.0	III		1	25	78	
			CULG	0610.0	0612.0	III	G	3	18	100	
			HIRA	0610.0	0610.5	III	B	1	25X	70	
			SVTO	0650.0	1557.0	III	N	2	25	150	
			CULG	0658.0	0658.0	III	B	3	20	90	
			CULG	0703.0	0703.0	III	B	3	20	90	
			CULG	0723.0	0729.0	III	G	3	18X	160	
			LEAR	0723.0	0723.0	III		2	25	115	
			HIRA	0723.5	0729.0	III	G	1	25X	110	
	0625	1558	POTS	0726 U	1517 U	I	S,N	2	200U	400U	
	0736	1457	ONDR								
	0805	1535	BLEN								
			POTS	0849.5	0849.8	III	G	2	40X	80U	
			POTS	0905	1032	III	GG,N	2	40X	75	
			POTS	1103.7	1104.2	DCIM		2	240	400U	
			POTS	1104.9	1105.2	III	G,U	2	120	230	
			POTS	1128	1140	III	G,N	1	40X	60	
			SVTO	1140.0	1557.0	CONT		1	75	180	
			POTS	1153	1215	III	G,N	2	40X	60	
			POTS	1256	1319	III	G,N	1	40X	60	
			SGMR	1347.0	1755.0	III	N	1	30	80	
			POTS	1425.4	1428.4	III	G,RS	1	40X	60	
			POTS	1442.5	1447.7	III	G	1	40X	60	
			CULG	2000.0E	2400.0D	I	S,C	1	60	180	
	2000	2400	CULG	2000.0E	2400.0D	III	S,C	1	20	100	
			CULG	2041.0	2119.0	III	N	3	20	60	
	2127	2400	HIRA								
			CULG	2219.0	2346.0	III	N	3	18	90	
			LEAR	2219.0	1047.0	CONT		1	25	180	
13			CULG	0000.0E	0800.0D	III	S,C	1	20	100	
	0000	0800	CULG	0000.0E	0800.0D	I	S,C	2	60	180	
	0000	0816	HIRA	0018.5	0022.5	III	G	1	25X	50	
			CULG	0020.0	0020.0	III	B	3	18X	90	
			CULG	0046.0	0412.0	III	N	3	20	100	
			HIRA	0336.5	0337.0	III	B	1	25X	200	
	0622	1601	POTS	0654 U	1536 U	I	S,N,C	2	120U	400U	
			POTS	0721	0814	III	GG,N	1	40X	70	
			POTS	0903.9	0904.8	III	G	2	40X	80	
			POTS	0949	1016	III	G,N	1	40X	70	
			POTS	0953.3	0953.8	III	G	2	200U	320	
			POTS	1029.3	1047.5	III	GG,N	3	40X	500U	
			SVTO	1030.0	1034.0	III		1	25	180	
	0734	1459	ONDR	1031.1	1045.4	DCIM	GG	1	800X	2000X	
			POTS	1033.9	1034.7	V	G	3	40X	75	
			POTS	1041	1048	II	F,SH	2	40X	85U	
			LEAR	1041.0	1047.0	II		1	25	58	ESS 0813
			SVTO	1041.0	1050.0	II		1	25U	84U	ESS 0494

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13			POTS	1053	1116	III	G,N	1	40X	60	
			ONDR	1103.0	1103.2	DCIM	G	1	1002	1648	
			POTS	1140.8	1154.7	III	GG	2	40X	310	
			POTS	1158	1412	III	GG,N	1	40X	80	
			SGMR	1207.0	2149.0	III	N	1	54	180	
			PALE	1720.0	0411.0	CONT		1	108	180	
			CULG	2000.0E	2400.0D	III	S	1	20	130	
	2000	2400	CULG	2000.0E	2400.0D	I	S,C	1	70	180	
			PALE	2152.0	0153.0	III	N	1	25	180	
			LEAR	2230.0	0401.0	CONT		1	82	180	
			LEAR	2324.0	1045.0	III	N	1	25	180	
	2126	2400	HIRA	2328.0	2328.5	III	G	1	25X	100	
			PALE	2344.0	0310.0	III	N	1	25	180	
14			CULG	0000.0E	0430.0	III	S	1	20	130	
	0000	0800	CULG	0000.0E	0401.0	I	S,C	1	60	180	
			CULG	0051.0	0054.0	III	G	3	18X	200	
	0000	0817	HIRA	0051.0	0054.5	III	G	1	25X	280	
			CULG	0340.0	0429.0	III	N	3	18X	180	
			HIRA	0340.0	0341.0	III	B	1	25X	190	
			CULG	0401.0	0425.0	I	S,C	2	60	180	
			HIRA	0401.0	0530.0	IV		1	25X	200	
			LEAR	0401.0	1045.0	IV		2	25	180	
			CULG	0425.0	0525.0	I	S,C	3	40	180	
			CULG	0430.0	0554.0	III	S,C	3	18	180	
			CULG	0507.0	0512.0	III	G	1	18	420	
			CULG	0525.0	0800.0D	I	S,C	2	40	180	
			CULG	0554.0	0618.0	III	S,C	2	18	130	
			SVTO	0606.0	1534.0	IV		1	25	180	
			CULG	0618.0	0800.0D	III	S,C	1	20	90	
			CULG	0641.0	0642.0	III	G	3	18	130	
			HIRA	0641.5	0642.0	III	B	1	30	130	
	0619	1607	POTS	0650 U	1529 U	I	S,N	2	200U	400U	
			CULG	0659.0	0659.0	III	B	3	20	90	
			POTS	0751.8	0752.0	III	B	1	40X	75	
			POTS	0851.8	0852.1	III	B	2	40X	370	
			POTS	0913	1000 U	III	G,N	1	40X	50	
			POTS	1041.9	1042.1	III	B	2	40X	370	
			ONDR	1154.4	1202.0	DCIM	GG	2	800X	2000X	
			POTS	1155.8	1200.5	III	GG	2	40X	370	
			SVTO	1156.0	1158.0	III		1	25	147	
	0731	1502	ONDR	1156.2	1159.2	DCIM	G	1	2000X	4500X	
			SVTO	1201.0	1207.0	II		2	25U	84U	ESS 0904
			POTS	1201.9	1207	II	F,SH	2	40X	85U	
			SGMR	1204.0	1205.0	II		2	30U	68U	ESS 1228
			POTS	1208.9	1212.3	III	G	1	40X	70	
			SGMR	1209.0	1458.0	IV		2	113	180	
			POTS	1255 U	1349	III	G,N	1	40X	70	
			SGMR	1318.0	1318.0	III		1	30	54	
			SGMR	1357.0	2150.0	III	N	2	30	180	
			PALE	1834.0	1837.0	III		1	25	180	
			PALE	1859.0	0133.0	III	N	1	25	180	
			PALE	1951.0	1953.0	III		2	25	180	
			CULG	2000.0E	2400.0D	III	S	1	20	150	
	2000	2400	CULG	2000.0E	2400.0D	I	S	1	80	180	
			CULG	2048.0	2057.0	III	GG	3	18X	350	
			CULG	2113.0	2113.0	III	B	3	18	50	
	2125	2400	HIRA	2212.5	2213.0	III	B	1	30	120	
			CULG	2257.0	2300.0	III	G	3	18X	100	
			HIRA	2257.0	2300.0	III	G	1	25X	100	
			LEAR	2257.0	2259.0	III		1	25	180	
			LEAR	2333.0	0545.0	CONT		1	82	180	
			CULG	2347.0	2347.0	III	B	2	18	90	
			HIRA	2347.0	2347.5	III	B	1	30	80	
			LEAR	2347.0	1045.0	III	N	1	25	180	
15			CULG	0000.0E	0415.0	III	S	1	20	180	
	0000	0800	CULG	0000.0E	0415.0	I	S	1	100	180	
	0000	0818	HIRA	0119.5	0120.0	III	B	1	30	60	

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15			CULG	0120.0	0120.0	III	B	2	20	90	
			CULG	0124.0	0124.0	III	B	2	20	160	
			HIRA	0124.0	0124.5	III	B	1	30	110	
			CULG	0326.0	0326.0	III	B	2	18	180	
			HIRA	0326.0	0326.5	III	B	1	30	190	
			CULG	0344.0	0348.0	III	G	2	20	120	
			HIRA	0344.5	0347.5	III	G	1	30	110	
			CULG	0409.0	0410.0	III	G	2	23	180	
			HIRA	0409.0	0410.0	III	G	1	25X	50	
			CULG	0433.0	0800.0D	III	N	1	20	180	
			CULG	0535.0	0537.0	III	G	2	20	260	
			HIRA	0535.0	0535.5	III	B	1	25X	200	
			HIRA	0536.5	0537.0	III	B	1	30	110	
			SVTO	0605.0	1049.0	CONT		1	25	180	
			SVTO	0605.0	1049.0	CONT		1	73	180	
			CULG	0658.0	0700.0	III	G	2	20	180	
			HIRA	0658.0	0700.5	III	G	1	30	100	
			SVTO	0700.0	0700.0	III		1	25	125	
	0616	1610	POTS	0700.1	0700.4	III	B	2	40X	85U	
			POTS	0723 U	1526 U	I	S,N	2	200U	400U	
	0729	1504	ONDR								
			POTS	0853.7	0909.5	III	GG,N	2	40X	400U	
	0745	1540	BLEN	0931.5	0932.2	DCIM	P	2	300X	600X	
			POTS	0931.8	0932.2	III	G	2	60U	500U	
			POTS	0951.6	0951.9	III	B	1	40X	330	
			POTS	1009.6	1011.2	III	G	2	50U	400	
			SVTO	1104.0	1139.0	III	N	1	34	160	
			POTS	1118.6	1123.5	III	GG	2	40X	400	
			SVTO	1206.0	1601.0	III	N	1	25	154	
			SGMR	1311.0	1530.0	III	N	1	30	50	
			POTS	1332.7	1338.2	III	G	1	40X	60	
			PALE	1814.0	1815.0	III		1	25	160	
			SGMR	1814.0	1940.0	III	N	1	30	140	
	2000	2400	CULG	2000.0E	2400.0D	III	N	1	20	100	
			CULG	2059.0	2103.0	III	G	3	20	70	
			CULG	2125.0	2127.0	III	G	1	20	180	
16	0000	0800	CULG	0000.0E	0422.0	III	N	1	20	180	
			LEAR	0010.0	0010.0	III		1	25	83	
			LEAR	0019.0	1045.0	III	N	1	25	136	
			CULG	0257.0	0258.0	III	G	2	18	100	
	0024	0819	HIRA	0257.0	0258.0	III	G	1	25X	70	
			CULG	0414.0	0800.0D	I	S,C	2	60	180	
			CULG	0425.0	0800.0D	III	S,C	2	18	180	
			HIRA	0428.5	0429.0	III	B	1	25X	200	
			CULG	0429.0	0429.0	III	G	2	18	420	
			SVTO	0616.0	1602.0	CONT		1	25	180	
	0613	1613	POTS	0635 U	1557 U	I	S,N,C,DC	3	40	400U	
	0727	1506	ONDR	0732.4	0755.5	DCIM	GG	1	800X	2000X	
			POTS	0808.7	0814.2	III	G	1	40X	85U	
			POTS	1015.0	1018.1	III	G	1	40X	85U	
			SGMR	1201.0	1708.0	CONT		1	30	180	
			POTS	1233.6	1234.2	III	G	2	40X	300	
	2000	2400	CULG	2000.0E	2400.0D	III	N	1	20	180	
			CULG	2023.0	2303.0	I	S	1	100	180	
			CULG	2136.0	2136.0	III	B	2	18	280	
			LEAR	2231.0	1044.0	CONT		1	90	180	
	2123	2400	HIRA	2304.5	2305.0	III	B	1	25X	100	
			CULG	2305.0	2305.0	III	B	2	18	170	
			CULG	2333.0	2338.0	III	GG	3	18	650	
			HIRA	2333.0	2338.0	III	G	2	25X	230	
			LEAR	2333.0	2339.0	III		2	25	180	
17	0000	0800	CULG	0000.0E	0315.0	III	N	1	20	180	
			CULG	0058.0	0103.0	III	G	3	18X	200	
			LEAR	0058.0	0102.0	III		2	25	180	
	0000	0820	HIRA	0058.0	0102.5	III	G	1	25X	170	
			PALE	0101.0	0102.0	III		1	25	157	
			CULG	0114.0	0233.0	I	S,C	1	57	160	

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17			LEAR	0131.0	0257.0	III	N	1	25	180	
			CULG	0500.0	0649.0	III	N	1	20	150	
			CULG	0507.0	0800.0D	I	S	1	110	180	
			LEAR	0532.0	0536.0	III		2	25	180	
			CULG	0533.0	0533.0	III	B	3	20	180	
			CULG	0536.0	0537.0	III	G	3	18X	180	
			HIRA	0536.0	0537.0	III	G	1	25X	230	
			SVTO	0602.0	1532.0	CONT		1	25	180	
			HIRA	0620.5	0621.0	III	B	1	30	70	
			CULG	0621.0	0621.0	III	B	3	18	80	
	0610	1619	POTS	0642 U	1543 U	I	S,N	2	120U	400U	
			CULG	0649.0	0800.0D	III	S	1	20	180	
			CULG	0703.0	0718.0	III	N	3	18X	160	
	0725	1508	ONDR								
	0730	1540	BLEN								
			LEAR	0745.0	0746.0	III		2	25	144	
			CULG	0746.0	0747.0	III	G	3	18X	160	
			HIRA	0746.0	0746.5	III	B	1	30	110	
			POTS	1014.4	1016.8	III	G	2	40X	85U	
			POTS	1353.1	1353.8	III	G	2	40X	150	
			POTS	1415	1440	III	GG,N	2	40X	85U	
			POTS	1508.7	1520.4	III	GG,N	1	40X	85U	
			POTS	1532.4	1532.6	III	B	1	40X	85U	
			PALE	1716.0	2358.0	CONT		1	84	180	
			PALE	1828.0	1945.0	III	N	1	25	180	
			CULG	2000.0E	2400.0D	I	S,C	1	60	180	
	2000	2400	CULG	2000.0E	2400.0D	III	S	1	20	180	
	2122	2400	HIRA	2130.0	2132.5	III	G	1	25X	60	
			CULG	2131.0	2131.0	III	B	2	18X	90	
			PALE	2132.0	0147.0	III	N	1	25	180	
			LEAR	2233.0	1044.0	CONT		1	73U	141U	
			PALE	2336.0	2337.0	III		1	25	171	
18	0000	0822	HIRA								
			CULG	0000.0E	0121.0	III	S	1	20	180	
	0000	0800	CULG	0000.0E	0800.0D	I	S,C	1	60	180	
			CULG	0130.0	0500.0	III	N	1	20	100	
			CULG	0632.0	0800.0D	III	N	1	23	120	
	0607	1622	POTS	0709 U	1524 U	I	S,N	2	120U	400	
	0723	1510	ONDR								
	0730	1540	BLEN								
			SVTO	0740.0	1122.0	CONT		1	25	180	
			POTS	1014.4	1016.8	III	G	2	40X	85U	
			PALE	1834.0	1835.0	III		1	25	122	
			CULG	2000.0E	2400.0D	I	S,C	1	100	180	
	2000	2400	CULG	2000.0E	2400.0D	III	S,C	1	20	180	
			SGMR	2021.0	2155.0	CONT		1	113U	180U	
			PALE	2025.0	0414.0	CONT		1	66	180	
	2121	2400	HIRA								
			LEAR	2232.0	0725.0	CONT		1	77	180	
19	0000	0823	HIRA								
			CULG	0000.0E	0656.0U	I	S,C	1	60	180	
	0000	0800	CULG	0000.0E	0232.0	III	S	1	23	180	
			CULG	0323.0	0444.0U	III	N	1	23	180	
			SVTO	0559.0	0651.0	CONT		1	158	180	
	0604	1628	POTS	0713 U	1017 U	I	S,N	1	120U	350	
	0720	1512	ONDR								
			SVTO	0923.0	0924.0	III		1	25	43	
			POTS	1051	1241 U	I	S,N	2	200U	400	
	0730	1545	BLEN	1151.3	1204.0	DCIM	P	2	300X	600X	
			POTS	1348	1444 U	I	S,N	1	210	350	
			SVTO	1417.0	1417.0	III		1	25	43	
			POTS	1417.3	1417.4	III	B	1	40X	80	
			POTS	1513.0	1513.2	III	B	1	40X	60	
			SGMR	1513.0	1513.0	III		1	30	60	
			SVTO	1513.0	1513.0	III		1	25	71	
			SGMR	1714.0	1715.0	III		1	30	81	
	2000	2400	CULG	2011.0	2359.0	III	N	1	20	90	

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19			PALE	2143.0	2145.0	III		1	25	134	
	2120	2400	HIRA	2143.5	2145.0	III	G	1	25	100	
			CULG	2144.0	2145.0	III	G	3	18X	180	
20	0000	0824	HIRA								
	0000	0800	CULG	0139.0	0143.0	III	G	1	18	90	
			CULG	0352.0	0414.0	I	S	1	130	180	
	0601	1631	POTS	0712 U	1518 U	I	S,N,DC	2	120U	370	
	0718	1514	ONDR								
			LEAR	0950.0	1042.0	CONT		1	118	180	
			LEAR	1008.0	1008.0	III		2	25	180	
			SVTO	1008.0	1008.0	III		1	25	180	
			POTS	1008.4	1010.4	III	G	3	40X	380	
			LEAR	1010.0	1010.0	III		1	25	104	
			POTS	1137.7	1138.0	DCIM		2	280	440	
	0730	1545	BLEN	1137.7	1138.0	III	GG,S	2	300X	450	
			SVTO	1156.0	1206.0	III		1	25U	83U	
			POTS	1156.2	1206.1	III	G,N	2	40X	170U	
			POTS	1202.3	1204.8	DCIM		2	240	400	
			SVTO	1243.0	1243.0	III		1	25	38	
			POTS	1539.1	1539.7	UNCLF		2	200U	225	
			SGMR	1609.0	1610.0	III		1	30	69	
	2000	2400	CULG	2039.0	2039.0	III	B	1	40	90	
			CULG	2044.0	2044.0	III	B	1	40	140	
			CULG	2214.0	2214.0	III	B	1	30	90	
			CULG	2245.0	2248.0	III	G	1	40	150	
			LEAR	2318.0	2319.0	III		2	25	154	
	2119	2400	HIRA	2318.5	2319.0	III	B	2	25X	220	
			CULG	2319.0	2319.0	III	B	3	18X	180	
			CULG	2322.0	2326.0	III	G	1	27	90	
			HIRA	2322.5	2323.0	III	B	1	30	50	
			LEAR	2325.0	2325.0	III		1	25	99	
21			LEAR	0008.0	0008.0	III		1	25	69	
			LEAR	0051.0	0126.0	III	N	1	25	180	
			PALE	0112.0	0112.0	III		1	25	180	
	0000	0800	CULG	0112.0	0112.0	III	B	2	30	180	
	0000	0825	HIRA	0112.0	0112.5	III	B	1	25X	150	
			HIRA	0116.5	0117.0	III	B	1	25X	50	
			PALE	0123.0	0124.0	III		1	25	180	
			HIRA	0123.5	0124.0	III	B	2	25X	90	
			CULG	0124.0	0124.0	III	B	2	18X	180	
			LEAR	0124.0	0124.0	III		2	25	180	
			LEAR	0305.0	0306.0	III		1	25	73	
			CULG	0317.0	0317.0	III	B	3	18X	180	
			HIRA	0317.0	0317.5	III	B	1	25X	130	
			LEAR	0317.0	0317.0	III		2	25	155	
			LEAR	0323.0	0346.0	III	N	1	25	106	
			CULG	0324.0	0324.0	III	B	1	23	100	
			CULG	0346.0	0348.0	III	G	1	23	180	
			HIRA	0346.0	0347.0	III	G	1	60	220	
			CULG	0505.0	0800.0D	III	N	1	18	170	
			LEAR	0601.0	0605.0	III		1	25	133	
			HIRA	0602.0	0602.5	III	B	1	25X	110	
			LEAR	0626.0	0626.0	III		1	25	81	
			LEAR	0648.0	0649.0	III		2	25	180	
			SVTO	0648.0	0649.0	III		2	25	150	
			HIRA	0648.5	0649.0	III	B	2	25X	200	
	0558	1634	POTS	0648.8	0649.1	III	B	2	40X	380	100-170MHz no data
			CULG	0649.0	0649.0	III	B	3	18X	200	
			POTS	0705 U	1520 U	I	S,N	1	200U	370	
	0716	1516	ONDR								
			LEAR	0751.0	0751.0	III		1	25	103	
			POTS	0801.0	0801.5	III	B	1	40X	330	
			SVTO	0801.0	0801.0	III		1	25	46	
			LEAR	0825.0	0826.0	III		2	25	180	
			SVTO	0825.0	0825.0	III		2	25	162	
			POTS	0825.2	0825.8	III	G	3	40X	340	
			SVTO	1143.0	1143.0	III		1	25	84	

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21			POTS	1143.3	1143.7	III	G	3	40X	260	
	0725	1450	BLEN	1231.3	1244.9	III	GG	1	300X	550	
			SVTO	1235.0	1235.0	III		1	25	38	
	2000	2400	CULG	2020.0	2020.0	III	B	2	20	180	
	2117	2400	HIRA								
22	0000	0800	CULG	0120.0	0120.0	III	B	1	60	80	
			LEAR	0457.0	0458.0	III		1	25	127	
	0000	0826	HIRA	0457.5	0458.5	III	G	1	40	210	
			CULG	0458.0	0501.0	III	G	1	20	180	
			CULG	0518.0	0519.0	III	G	1	20	320	
			HIRA	0518.0	0518.5	III	B	1	50	220	
			LEAR	0518.0	0518.0	III		1	25	138	
			LEAR	0606.0	0730.0	III	N	1	25	122	
			CULG	0619.0	0619.0	III	B	1	50	120	
			HIRA	0619.0	0619.5	III	B	1	60	120	
			CULG	0658.0	0658.0	III	G	1	23	90	
	0558	1640	POTS	0705 U	1516 U	I	S,N	2	200U	400U	100-170MHz no data
	0714	1518	ONDR								
			POTS	1123.6	1123.9	III	G	1	40X	85U	
			POTS	1201.3	1202.2	III	G	2	40X	300	
			POTS	1232.0	1232.3	III	B	2	40X	270	
			SGMR	1232.0	1232.0	III		1	30	82	
			SVTO	1232.0	1232.0	III		1	25U	83U	
			SGMR	1303.0	1303.0	III		1	30	180	
			SVTO	1303.0	1303.0	III		2	25	180	
			POTS	1303.1	1304.0	III	G	2	40X	390	
	0725	1450	BLEN	1315.5	1326.5	III	GG	2	300X	530	
			SGMR	1402.0	1410.0	III		1	30	180	
			SVTO	1402.0	1403.0	III		2	25	180	
			POTS	1402.3	1411.0	III	G	3	40X	330	
			SVTO	1409.0	1410.0	III		2	25	180	
			PALE	2043.0	2044.0	III		1	25	125	
			SGMR	2043.0	2044.0	III		1	30	180	
	2000	2400	CULG	2043.0	2044.0	III	G	2	20	320	
	2116	2400	HIRA								
23			LEAR	0037.0	0044.0	III		1	43	142	
	0000	0800	CULG	0038.0	0044.0	III	G	2	27	180	
	0000	0827	HIRA	0038.0	0042.0	III	G	1	50	120	
			CULG	0131.0	0327.0	III	N	1	40	180	
			LEAR	0148.0	0148.0	III		1	41	109	
			PALE	0155.0	0158.0	III		1	25	76	
			LEAR	0212.0	0320.0	III	N	1	25	180	
			LEAR	0419.0	1000.0	III	N	2	25	127	
			CULG	0422.0	0422.0	III	B	1	50	130	
			HIRA	0425.5	0426.0	III	B	1	50	150	
			CULG	0426.0	0426.0	III	B	1	35	180	
			CULG	0451.0	0451.0	III	B	1	30	180	
			HIRA	0451.0	0451.5	III	B	1	30	170	
			LEAR	0540.0	0544.0	III		2	25	180	
			CULG	0541.0	0544.0	III	G	3	18	320	
			HIRA	0541.0	0544.0	III	G	3	30	480	
			CULG	0545.0	0545.0	III	B	2	40	180	
			HIRA	0547.0	0547.5	III	B	1	40	210	
			HIRA	0550.5	0551.0	III	B	1	40	110	
			CULG	0551.0	0551.0	III	B	1	40	140	
			CULG	0601.0	0603.0	III	G	3	20	230	
			LEAR	0601.0	0603.0	III		2	25	180	
			SVTO	0602.0	0602.0	III		1	42	141	
			HIRA	0602.5	0603.0	III	G	2	30	220	
			CULG	0652.0	0653.0	III	G	3	20	300	
			HIRA	0652.0	0653.0	III	B	3	30	440	
			LEAR	0652.0	0653.0	III		2	25	180	
			SVTO	0652.0	0652.0	III		2	35	180	
	0555	1643	POTS	0652.1	0652.9	III	G	3	40X	380	100-170MHz no data
			CULG	0729.0	0729.0	III	B	1	50	100	
			HIRA	0729.0	0729.5	III	B	1	50	100	
			LEAR	0811.0	0812.0	III		2	25	138	

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

FEBRUARY 2005

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
23			SVTO	0811.0	0845.0	III	N	1	25	84	
			HIRA	0811.5	0812.0	III	B	1	50	190	
			POTS	0811.8	0848.2	III	GG,N	2	40X	390	
			LEAR	0846.0	0848.0	III		2	25	180	
			SVTO	0847.0	0848.0	III		2	25	180	
			LEAR	0933.0	0935.0	III		2	25	180	
			SVTO	0933.0	0935.0	III		3	25	180	
			POTS	0933.2	0935.8	III	GG	3	40X	480U	
			ONDR	0933.4	0934.5	DCIM	GG,SP	2	800X	2000X	
	0725	1450	BLEN	0933.8	0936.0	III	GG	3	300X	600X	
	0711	1520	ONDR	0934.1	0935.1	DCIM	G	1	2000X	4500X	
			POTS	0935.8	0938.4	DCIM		2	210	400U	
			POTS	0936.3	0957 U	I	S,N,C	1	250	400	
			POTS	1109.9	1112.7	III	GG	2	40X	390	
			SVTO	1110.0	1113.0	III		1	25	180	
			POTS	1128.9	1129.1	UNCLF		1	200U	270	
			SVTO	1145.0	1148.0	III		1	25	180	
			POTS	1145.4	1148.2	III	GG	2	40X	390	
			POTS	1149	1204	I	S	1	230	320	
			POTS	1215.2	1216.4	III	G	2	50	320	
			SVTO	1238.0	1239.0	III		1	25	180	
			POTS	1238.8	1243.2	III	GG,N	2	40X	400	
			SGMR	1242.0	1242.0	III		1	30	180	
			SVTO	1242.0	1243.0	III		2	25	180	
			BLEN	1242.6	1242.8	III	G	3	300X	600X	
			POTS	1243	1346	I	S,N	1	200U	350	
			POTS	1401.0	1405.9	III	GG	2	40X	440U	
			SGMR	1403.0	1403.0	III		1	30	180	
			SVTO	1403.0	1404.0	III		2	25	180	
			BLEN	1403.6	1405.0	III	GG	2	300X	600X	
			POTS	1439.6	1439.8	UNCLF		1	200U	310	
			POTS	1441.7	1514	I	S,N	1	210	380	
			PALE	1910.0	1915.0	III		1	25	180	
	2114	2400	HIRA								
	2000	2400	CULG	2237.0	2237.0	III	B	1	20	90	
24	0000	0800	CULG								
	0000	0828	HIRA								
			LEAR	0240.0	0240.0	III		1	52	82	
	0709	1522	ONDR								
	0552	1649	POTS	0801 U	0831 U	I	S,N	1	210	320	100-170MHz no data
	0830	1530	BLEN								
	2000	2400	CULG								
	2113	2400	HIRA								
25	0000	0800	CULG								
	0000	0828	HIRA								
	0549	1652	POTS								100-170MHz no data
	0707	1524	ONDR								
	0745	1600	BLEN								
	2000	2400	CULG								
	2112	2400	HIRA								
26	0000	0800	CULG								
	0000	0829	HIRA								
	0546	1652	POTS								100-170MHz no data
	0704	1525	ONDR								
	0730	1600	BLEN								
	2000	2400	CULG								
	2111	2400	HIRA								
27	0000	0800	CULG								
	0000	0830	HIRA								
	0543	1655	POTS								100-170MHz no data
	0702	1528	ONDR								
	0715	1600	BLEN								
	2000	2400	CULG								
	2110	2400	HIRA								

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

FEBRUARY 2005

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
28	0000	0800	CULG								
	0000	0831	HIRA								
	0543	1658	POTS								100-170MHz no data
	0700	1530	ONDR								
	0715	1600	BLEN								
	2000	2400	CULG								
	2108	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).