SOLAR RADIO EMISSION
Spectral Observations

MAY 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
01			LEAR	0139.0	0139.0	III		1	25	151	
	0000	0730	CULG	0140.0	0140.0	III	B	1	20	140	
			CULG	0154.0	0156.0	III	G	1	20	100	
			LEAR	0154.0	0156.0	III		1	25	176	
			LEAR	0158.0	0201.0	II		1	68	175	ESS 0436
			CULG	0159.0	0202.0	II	UE	1	50U	120	
			CULG	0234.0	0235.0	III	G	1	20	100	
			CULG	0251.0	0252.0	III	G	1	30	90	
			CULG	0347.0	0412.0	III	N	1	20	100	
			LEAR	0407.0	0408.0	III		1	28	109	
	0343	1846	POTS	0407.6	0408.4	III	G	1	40X	80U	
			LEAR	0410.0	0411.0	III		1	25	123	
			CULG	0457.0	0457.0	III	B	1	20	80	
			LEAR	0540.0	0541.0	III		1	25	121	
			POTS	0540.9	0541.3	III	G	2	40X	70U	
			CULG	0541.0	0541.0	III	G	1	20	100	
			SVTO	0541.0	0622.0	III	N	2	25	152	
			CULG	0558.0	0653.0	III	N	1	23	100	
			POTS	0558.0	0600.5	III	G,N	2	40x	330	
			LEAR	0559.0	0600.0	III		1	25	103	
			CULG	0600.0	0600.0	III	B	2	20	90	
			POTS	0615.3	0622.0	III	GG,N	3	40X	400X	
			LEAR	0619.0	0818.0	III	N	2	25	180	
	0500	1735	BLEN	0619.6	0620.7	III	GG,RS	2	130X	3000	
			CULG	0620.0	0620.0	III	B	2	20	100	
			CULG	0647.0	0647.0	III	B	2	20	100	
			POTS	0647.0	0652.7	III	GG,N	2	40X	330	
			POTS	0800.5	0805.2	III	G,N	1	40X	65U	
			SGMR	1419.0	1426.0	III		1	30	70	
			POTS	1420.8	1426.8	III	GG,N	2	40X	75U	
			SGMR	1452.0	1508.0	III	N	1	30	54	
			SGMR	1647.0	1647.0	III		1	30	54	
			POTS	1647.2	1647.7	III	G	2	40X	230	
	2030	2400	CULG								
02	0000	0730	CULG								
	0505	1735	BLEN								
	0640	1620	ONDR								
	0340	1846	POTS	1136	1206	I	S,N,DC	2	40X	360	
			SVTO	1202.0	1206.0	III		1	25U	153U	
			SVTO	1210.0	1324.0	III	N	1	25	153	
			POTS	1233	1305	I	S,N	1	210	310	
			POTS	1458.7	1458.9	UNCLF		1	200U	230	
	2030	2400	CULG								
03	0000	0730	CULG								
	0505	1735	BLEN								
	0613	1620	ONDR								
			SVTO	0935.0	0935.0	III		1	25	57	
	0340	1846	POTS	0935.1	0935.5	III	B	1	40X	230	
			PALE	2227.0	2228.0	III		1	25	88	
	2030	2400	CULG	2227.0	2229.0	III	G	1	20	90	
			CULG	2239.0	2239.0	III	B	1	20	90	
			PALE	2239.0	2345.0	III	N	1	25	82	
			CULG	2247.0	2253.0	III	G	1	20	100	
04	0000	0730	CULG								
	0505	1300	BLEN								
			SGMR	1501.0	1502.0	III		1	30	75	
			SVTO	1501.0	1502.0	III		1	25	119	
	0340	1849	POTS	1501.3	1501.9	III	G,U	2	40X	230	
			POTS	1624 U	1737 U	I	S,N	1	200U	280	
	2030	2400	CULG								
05	0340	0735	POTS	0442.9	0443.8	DCIM		2	200U	400X	
			LEAR	0455.0	0456.0	III		1	25	180	
			SVTO	0455.0	0456.0	III		1	25	180	
			POTS	0455.6	0456.7	III	G	2	40X	400	
	0000	0720	CULG	0456.0	0457.0	III	G	1	20	100	

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

MAY 2006

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05			POTS	0456.6	0456.9	V	B	2	40X	70	
	0505	1730	BLEN								
			POTS	0525	0654	I	S,N	1	200	330	
	0613	1620	ONDR								
			SVTO	0616.0	0623.0	III		2	25	180	
			CULG	0620.0	0621.0	III	G	1	30	90	
			LEAR	0620.0	0623.0	III		2	25	180	
			POTS	0620.2	0621.2	III	G	2	40X	380	
			CULG	0658.0	0701.0	III	G	1	40	140	
			LEAR	0658.0	0700.0	III		1	56	149	
			SVTO	0658.0	0700.0	III		1	42	144	
			POTS	0658.1	0700.4	III	GG	2	40	330	
	2030	2400	CULG								
06	0000	0720	CULG								
	0505	1730	BLEN								
	0609	1620	ONDR								
	0958	1849	POTS								
	2030	2400	CULG								
07	0000	0720	CULG								
	0337	1852	POTS								
	0505	1735	BLEN								
	0609	1620	ONDR								
	2030	2400	CULG	2142.0	2142.0	III	B	1	30	70	
08	0000	0720	CULG								
	0500	1740	BLEN								
	0337	1852	POTS	0601	1801 U	I	S,N,DC	2	200U	380	
	0609	1620	ONDR								
			SGMR	1230.0	1230.0	III		1	30	72	
			SVTO	1230.0	1231.0	III		1	25	56	
			POTS	1230.8	1231.0	III	B,U	2	40X	70U	
			SGMR	1803.0	1803.0	III		1	30	50	
			SGMR	1902.0	1902.0	III		1	30	70	
			SGMR	1940.0	1940.0	III		1	30	65	
			SGMR	2205.0	2206.0	III		1	30	180	
	2030	2400	CULG	2206.0	2206.0	III	B	1	20	180	
09	0000	0720	CULG								
	0337	1852	POTS	0404 E	1805 U	I	S,N	2	200U	380	
	0500	1740	BLEN								
	0609	1620	ONDR								
	2030	2400	CULG								
10	0000	0720	CULG								
	0337	1855	POTS	0407 E	1655 U	I	S,N	1	200U	320	
	0500	1745	BLEN								
	0609	1620	ONDR								
	2030	2400	CULG								
11	0000	0720	CULG								
	0334	1855	POTS								
	0455	1745	BLEN								
	0609	1620	ONDR								
	2040	2400	CULG								
12	0000	0720	CULG								
	0334	1855	POTS								
	0450	1745	BLEN								
	0609	1620	ONDR								
	2040	2400	CULG								
13	0000	0720	CULG								
	0334	1855	POTS								
	0450	1750	BLEN								
	0609	1620	ONDR								
	2040	2400	CULG								

SOLAR RADIO EMISSION
Spectral Observations

MAY 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
14	0000	0720	CULG								
	0334	1858	POTS								
	0450	1750	BLEN								
	0609	1620	ONDR								
	2040	2400	CULG								
15	0000	0720	CULG								
	0331	1858	POTS								
	0450	1750	BLEN								
	0605	1620	ONDR								
	2040	2400	CULG								
16	0000	0720	CULG								
	0450	1750	BLEN								
	0605	1620	ONDR								
	0331	1858	POTS	1617.9	1619.4	DCIM		2	200U	380	
	2040	2400	CULG	2056.0	2058.0	III	G	1	57	170	
17	0605	1008	ONDR								
			LEAR	0627.0	0630.0	III		1	40	180	
			SVTO	0627.0	0630.0	III		1	35	165	
	0331	1858	POTS	0627.8	0630.2	III	GG	2	40X	390	
	0000	0720	CULG	0628.0	0630.0	III	G	1	40	160	
			LEAR	0717.0	0718.0	III		1	71	107	
			SGMR	1316.0	1316.0	III		1	30	63	
			SVTO	1316.0	1316.0	III		1	25	74	
			POTS	1316.2	1316.7	III	G	2	40X	70U	
			SVTO	1506.0	1506.0	III		1	39	82	
			POTS	1506.6	1506.8	DCIM		2	210	400X	
			POTS	1520.1	1520.3	DCIM		2	200U	380	
	2040	2400	CULG								
18	0000	0720	CULG								
	0331	1901	POTS								
	0445	1645	BLEN								
	0612	1620	ONDR								
	2040	2400	CULG								
19	0000	0720	CULG								
	0605	1620	ONDR								
	0645	1645	BLEN								
			SVTO	1332.0	1333.0	III		1	25	82	
	0331	1901	POTS	1332.2	1333.6	III	GG	2	40X	310	
	2040	2400	CULG								
20	0000	0720	CULG								
	0331	1901	POTS	0439.2	0439.4	III	B	1	40X	400X	
	0605	1620	ONDR								
	0645	1645	BLEN								
			LEAR	0742.0	0742.0	III		1	36	100	
			SVTO	0742.0	0742.0	III		1	25	84	
			POTS	0742.4	0742.8	III	G	1	40X	280	
			POTS	1104	1511	I	S,N	1	200U	390	
			POTS	1603	1627	I	S,N	1	200U	280	
			SGMR	1856.0	1856.0	III		1	30	48	
	2040	2400	CULG								
21	0000	0710	CULG								
	0331	1901	POTS								
	0605	1620	ONDR								
	0645	1645	BLEN								
	2040	2400	CULG	2345.0	2345.0	III	B	1	35	80	
22	0000	0710	CULG								
	0331	1904	POTS								
	0605	1620	ONDR								
	0645	1645	BLEN								
			PALE	1942.0	1952.0	III		1	25	83	
			SGMR	1942.0	1947.0	III		1	30	129	

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

MAY 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
22			PALE	1959.0	2003.0	II		1	30	46	ESS 0548
			SGMR	2002.0	2003.0	II		1	30	45	ESS 0641
	2040	2400	CULG								
23	0000	0710	CULG								
	0445	1755	BLEN								
	0331	1904	POTS	0533 U	0858	I	S,N	1	200U	240	
	0605	1620	ONDR								
			POTS	0920	0941	I	S,N	1	200U	250	
			SGMR	1348.0	1349.0	III		1	30	60	
			SVTO	1348.0	1349.0	III		1	25	72	
	2040	2400	CULG								
24	0000	0710	CULG								
	0331	1907	POTS								
	0445	1755	BLEN								
	0605	1620	ONDR								
	2040	2400	CULG								
25	0331	1907	POTS	0416.9	0418.1	III	GG	2	200U	300	
			LEAR	0417.0	0417.0	III		1	61	144	
	0605	1620	ONDR								
			LEAR	0611.0	0612.0	III		1	25	180	
			POTS	0611.5	0612.6	III	GG	2	40X	360	
			SVTO	0612.0	0612.0	III		2	25	125	
	0000	0710	CULG	0619.0	0619.0	III	B	1	18	90	
	0440	1755	BLEN	0703.1	0703.8	III	GG,RS	2	420	3600	
			POTS	0722.6	0723.5	DCIM	RS	1	200	370	
			SVTO	0954.0	0954.0	III		2	25	80	
			SVTO	1257.0	1301.0	III		1	25U	62U	
			POTS	1257.8	1302.0	III	GG	2	40X	380	
			SGMR	1300.0	1301.0	III		1	30	61	
			BLEN	1300.6	1304.3	III	GG	1	180	360	
			POTS	1303.3	1304.8	DCIM		1	200	400X	
			SVTO	1523.0	1533.0	III		1	25	155	
			POTS	1523.8	1533.5	III	GG,N	2	40X	310	
			SGMR	1524.0	1533.0	III		1	30	57	
			POTS	1612	1619	UNCLF		2	200U	330	
			POTS	1724.2	1728.9	DCIM		2	200U	400X	
			SGMR	1728.0	1728.0	III		1	30	71	
			PALE	1849.0	1849.0	III		1	25	75	
			SGMR	1849.0	1849.0	III		1	30	71	
			LEAR	2315.0	2327.0	CONT		1	25	179	
			LEAR	2315.0	2327.0	IV		2	25	179	
			PALE	2315.0	2326.0	III		1	25	180	
	2040	2400	CULG	2315.0	2327.0	III	GG	1	20	150	
26			LEAR	0434.0	0435.0	III		1	25	151	
			SVTO	0434.0	0435.0	III		1	25	141	
	0000	0710	CULG	0434.0	0436.0	III	G	1	20	80	
	0331	1907	POTS	0434.3	0435.8	III	G	2	40X	360	
	0440	1755	BLEN								
			POTS	0544	0614	I	S,N	1	200	300	
	0602	1620	ONDR								
			POTS	0833	0859	I	S,N	1	230	320	
			POTS	0955	0959	I	S,N	1	270	330	
			POTS	0957.3	0957.7	III	G	2	200U	280	
			POTS	1010.6	1013.3	DCIM		1	210	340	
			POTS	1701.7	1702.5	UNCLF		1	200U	330	
	2050	2400	CULG								
27	0000	0710	CULG								
	0602	1620	ONDR								
	0440	1800	BLEN	0716.5	0722.1	III	GG	1	160	3000	
			SVTO	1404.0	1404.0	III		1	25	70	
	0331	1910	POTS	1621.0	1621.8	III	G	2	200U	260	
	2050	2400	CULG								
28	0000	0710	CULG								

SOLAR RADIO EMISSION
Spectral Observations

MAY 2006

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28	0440	1800	BLEN								
	0602	1620	ONDR								
			SVTO	1128.0	1128.0	III		2	25U	83U	
	0331	1910	POTS	1128.1	1128.6	III	G	2	40X	240	
	2050	2400	CULG								
29	0440	1800	BLEN								
	0602	1620	ONDR								
			SVTO	0626.0	0628.0	III		1	25	162	
	0000	0710	CULG	0626.0	0628.0	III	G	1	30	90	
	0331	1910	POTS	0627	0723	I	S,N	1	200U	290	
			LEAR	0627.0	0628.0	III		1	54	167	
			POTS	1018	1056	I	S,N	1	200U	310	
			SGMR	1626.0	1626.0	III		1	30	55	
			SVTO	1626.0	1626.0	III		1	25	80	
			POTS	1626.3	1626.5	III	B	1	40X	380	
			SGMR	1722.0	1724.0	III		1	30	59	
			SGMR	1758.0	1758.0	III		1	30	53	
	2050	2400	CULG								
30	0331	1910	POTS	0358.7	0359.2	III	G	2	40X	380	
	0000	0710	CULG	0359.0	0359.0	III	B	1	30	90	
	0440	1800	BLEN								
	0602	1620	ONDR								
			SGMR	1311.0	1312.0	III		1	30	76	
			SVTO	1311.0	1312.0	III		2	25	83	
			POTS	1311.4	1312.8	III	G	2	40X	85U	
	2050	2400	CULG								
31	0000	0710	CULG								
	0331	1913	POTS								
	0440	1800	BLEN								
	0602	1620	ONDR								
	2050	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).