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

DECEMBER 2007

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
01	0000	0729	HIRA								
	0000	0800	CULG								
	0812	1100	ONDR								
	0820	1435	BLEN								
	2000	2400	CULG								
	2124	2400	HIRA								
02	0000	0729	HIRA								
	0000	0800	CULG								
	0820	1435	BLEN								
	2000	2400	CULG								
	2125	2400	HIRA								
03	0000	0728	HIRA								
	0000	0800	CULG								
	0835	1435	BLEN								
	1008	1328	ONDR								
	2000	2400	CULG								
	2126	2400	HIRA								
04	0000	0728	HIRA								
	0000	0800	CULG								
	0817	1327	ONDR								
	0835	1435	BLEN								
	2000	2400	CULG								
	2127	2400	HIRA								
05	0000	0728	HIRA								
			LEAR	0653.0	0655.0	III		1	25	67	
			SVTO	0653.0	0653.0	III		1	25	54	
	0000	0800	CULG	0653.0	0655.0	III	G	1	20	45	
	0819	1326	ONDR								
	0835	1435	BLEN								
	2000	2400	CULG								
	2128	2400	HIRA								
06	0000	0800	CULG	0004.0	0004.0	III	B	1	20	50	
			CULG	0053.0	0053.0	III	B	1	20	80	
			LEAR	0053.0	0053.0	III		1	25	66	
	0000	0728	HIRA	0053.0	0053.5	III	B	1	30	70	
			CULG	0326.0	0327.0	III	G	1	20	80	
			LEAR	0326.0	0327.0	III		1	25	73	
	0821	1325	ONDR								
	0835	1435	BLEN								
	2000	2400	CULG								
	2128	2400	HIRA								
07			LEAR	0434.0	0437.0	III		1	25	58	
	0000	0728	HIRA	0436.5	0437.0	III	B	1	50	70	
	0000	0800	CULG	0437.0	0439.0	III	G	1	30	80	
	0822	1310	ONDR								
	0840	1435	BLEN								
	2000	2400	CULG								
	2129	2400	HIRA								
08	0000	0728	HIRA								
	0000	0800	CULG								
			LEAR	0740.0	0740.0	III		1	54	180	
	0824	1324	ONDR								
	0840	1435	BLEN								
	2000	2400	CULG								
	2130	2400	HIRA								
09	0000	0728	HIRA								
	0000	0800	CULG								
	0825	1323	ONDR								
	0845	1435	BLEN								
	2000	2400	CULG								
	2131	2400	HIRA								

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

DECEMBER 2007

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
10			LEAR	0215.0	0216.0	III		1	25	76	
	0000	0728	HIRA	0215.5	0216.0	III	B	1	50	120	
	0000	0800	CULG	0216.0	0216.0	III	B	1	18	70	
	0827	1323	ONDR								
	0845	1435	BLEN								
	2000	2400	CULG								
	2132	2400	HIRA								
11	0000	0729	HIRA								
			LEAR	0324.0	0324.0	III		1	25	53	
			LEAR	0416.0	0417.0	III		1	25	45	
	0000	0800	CULG	0541.0	0541.0	III	B	1	20	60	
	0828	1322	ONDR								
			SVTO	0832.0	0834.0	III		1	25	40	
	0845	1435	BLEN								
	2000	2400	CULG								
	2133	2400	HIRA								
12	0000	0729	HIRA								
	0000	0800	CULG								
	0829	1322	ONDR								
	0845	1435	BLEN								
	2000	2400	CULG								
	2133	2400	HIRA								
13	0000	0729	HIRA								
	0000	0800	CULG								
	0830	1322	ONDR								
	0850	1435	BLEN								
	2000	2400	CULG								
	2134	2400	HIRA								
14	0000	0730	HIRA								
	0000	0800	CULG								
	0832	1321	ONDR								
	0850	1435	BLEN								
	2000	2400	CULG								
	2134	2400	HIRA								
15	0000	0730	HIRA								
	0000	0800	CULG								
	0833	1321	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2135	2400	HIRA								
16	0000	0730	HIRA								
	0000	0800	CULG								
	0834	1321	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2136	2400	HIRA								
17	0000	0730	HIRA								
	0000	0800	CULG								
	0835	1321	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2137	2400	HIRA								
18	0000	0731	HIRA								
	0000	0800	CULG								
	0835	1307	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2137	2400	HIRA								
19	0000	0731	HIRA								
	0000	0800	CULG								

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

DECEMBER 2007

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
19	0836	1322	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2137	2400	HIRA								
20	0000	0731	HIRA								
	0000	0800	CULG								
	0837	1322	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2138	2400	HIRA								
21	0000	0732	HIRA								
	0000	0800	CULG								
	0838	1310	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2138	2400	HIRA								
22	0000	0732	HIRA								
	0000	0800	CULG								
	0838	1323	ONDR								
	0855	1435	BLEN								
	2000	2400	CULG								
	2139	2400	HIRA								
23	0000	0733	HIRA								
	0000	0800	CULG								
	0838	1310	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2140	2400	HIRA								
24	0000	0733	HIRA								
	0000	0800	CULG								
	0839	1324	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2140	2400	HIRA								
25	0000	0733	HIRA								
	0000	0800	CULG								
	0839	1311	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2141	2400	HIRA								
26	0000	0734	HIRA								
	0000	0800	CULG								
	0839	1326	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2141	2400	HIRA								
27	0000	0735	HIRA								
	0000	0800	CULG								
	0839	1311	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2142	2400	HIRA								
28	0000	0735	HIRA								
	0000	0800	CULG								
	0839	1327	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2142	2400	HIRA								
29	0000	0736	HIRA								

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

DECEMBER 2007

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
29	0000	0800	CULG								
	0840	1329	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2143	2400	HIRA								
30	0000	0737	HIRA								
	0000	0800	CULG								
	0839	1330	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2143	2400	HIRA								
31			LEAR	0053.0	0110.0	II		1	46	110	ESS 0582
			PALE	0053.0	0058.0	II		2	58U	121U	ESS 0682
			PALE	0053.0	0108.0	II		1	30	118	ESS 0744
	0000	0738	HIRA	0053.0	0059.0	II		2	50	110	
	0000	0800	CULG	0054.0	0100.0	II	UE	2	45	110	
			LEAR	0059.0	0114.0	IV		1	25	177	
			PALE	0059.0	0127.0	IV		2	75U	147U	
			HIRA	0059.5	0113.0	IV		1	50	210	
			CULG	0103.0	0112.0	II	FN	1	23	45	ESS 550
			CULG	0105.0	0111.0	II	SH	1	35	80	
	0839	1331	ONDR								
	0900	1435	BLEN								
	2000	2400	CULG								
	2143	2400	HIRA								

Event Remarks:

B = Single burst
C = Underlying 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.