

**SUDDEN IONOSPHERIC DISTURBANCES
DECEMBER 2004**

**87
Dec 04**

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region
						SWF	SEA	SPA	LF- SPA	SES			
01	0710	0724	0840	2	3		1				0700	M1.1	10708
01	1257	1303	1305	1-	1					1	1257	C1.3	10707
01	1601	1604	1612	1-	3					3	1558	C2.6	10707
01	1618	1622	1629	1-	5					5	1614	C4.2	10707
01	1828	1835	1846	1-	1					1	1821	C1.5	10707
01	1908	1912	1925	1-	1					1	No flare		
02	2359	2405	2415	1-	1					1	2344	M1.5	10708
03	1357	1412	1428	1	1		1				*		
04	1028	1046	1140	1	1		1				*		
07	0909	0929	1045	2	1		1				*		
07	1603	1625	1745	3	1					1	No flare		
07	1608	1635	1758	3	3					2	No flare		
08	1104	1114U	1152	1	1		1				*		
08	1213	1226	1315	1	1		1				*		
09	1034	1043	1154	1	1		1				*		
10	0734	0803	0840	2	1		1				0742	B1.1	
10	0915	0947	1016	2	1		1				0945	B1.2	
10	1033	1037U	1059	1	1		1				*		
12	1033	1059	1158	1	1		1				1106	B1.8	
12	1543	1611	1742	3	3					2	No flare		
15	0916	0951	1033	1	1		1				0955	B6.2	
15	1219	1231	1328	1	1		1				*		
17	1202	1224	1250	1	1		1				*		
18	0934	0938U	1148	1	1		1				No flare		
19	0401	0412	0445	2	1					1	0349	C1.8	10713
20	1312	1326U	1336	1	1		1				*		
21	1042	1102U	1200	1	1		1				*		
21	1202	1214U	1253	1	1		1				1219	B3.7	
22	1058	1207U	1213	1	1		1				*		
23	0956	1007	1027	1+	5		1			4	0957	C5.1	10713
26	1237	1243	1247	1-	1					1	1232	B9.9	10713
27	2130	2131	2220	2-	3					2	*		
28	0008	0011	0042	2	1					1	0004	C7.2	10713
28	0606	0611	0633D	1+	1					1	0600	C2.3	10713
28	0633E	0635	0645	1-	1					1	0628	C2.4	10713
28	0913	0916	0933	1	3					2	0911	C3.5	10713
28	1232	1237	1319	1	3		1			1	1228	C4.3	10713
28	1540	1554	1618	1+	3					5	1545	C4.1	10713
28	1742	1756	1846	2	3					7	1741	C7.2	10715
28	2029	2031	2042	1-	1					1	2025	C1.9	10715
28	2059	2103	2117	1	1					1	2051	C3.5	10713
29	0800	0821	0858	2+	1					1	0734	C2.6	10713
29	1332	1341	1353	1	5					4	1325	C2.5	10713
29	1436	1444	1452	1-	1					1	1434	B6.3	10713
29	1616	1628	1712	2	5		1			7	1557	M2.3	10715
29	1914	1921	1949	2-	3					3	1910	M1.4	10713

* = no flare patrol.

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						SWF	SEA	SPA	LF-SPA	SES			
30	0620	0626	0650	1+	3					3	0617	C2.5	10715
30	0739	0742	0759	1	3					4	0738	C1.6	10715
30	1009	1013	1036	1	3		1			1	1010	C1.3	10715
30	1037	1046	1202	2	5		1			5	1034	M2.2	10715
30	1116	1117	1122	1-	1					1	No flare		
30	1212	1221	1232	1-	5					2	1214	C2.6	10715
30	2149	2155	2206D	1-	1					1	2141	C4.1	10715
30	2207	2215	2310	2+	3					2	2202	M4.2	10715

31	0418	0438	0603	3	1					1	0411	C5.7	10715
31	1217	1246U	1322	1	1		1				1210	B7.2	10715
31	1443	1449	1516	1+	5		1			10	1438	M1.2	10715

* = no flare patrol.

OBSERVATORIES REPORTING FOR DECEMBER 2004

Alberta, Canada	SES	Milan, Italy	SES
Amherst, New Hampshire, USA	SES	Palo Alto, California, USA	SES
Bedford, Massachusetts, USA	SES	Sofia, Bulgaria	SES
Brookline, Massachusetts, USA	SES	Sussex, United Kingdom	SES
Edenvale, Rep of S. Africa	SES	Torrington, Connecticut, USA	SES
Houston, Texas, USA	SES	Tucson, Arizona, USA	SES
Hudson, Ohio, USA	SES	Udine City, Italy	SES
Isola del Gran Sasso, Italy	SES	Upice, Czech Republic	SEA
Marlborough, Massachusetts, USA	SES	Villiersdorp, South Africa	SES

Observations are not necessarily continuous.