

**SUDDEN IONOSPHERIC DISTURBANCES
NOVEMBER 2004**

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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	0658	0703	0726	1+	3						2	0655	C2.9	10687
01	0729	0739	0824	1	1		1					No flare		
01	1149	1150	1213	1	1		1					No flare		
02	0139	0145	0205	1	5						3	0134	C6.9	10687
02	0940	0943	1005	3-	5	1	1	1			8	0935	C9.8	10689
02	1237	1253	1316	1	1			1				*		
02	1341	1357	1417	1	5			1			2	1315	C2.5	10687
02	1636	1640	1703	1+	1						1	1632	C1.2	10696
02	1918	1919	1926	1-	1						1	1841	C1.2	10689
03	0128	0132	0159	2-	5						3	0123	M2.8	10691
03	0328	0336	0440	2+	3						2	0323	M1.6	10696
03	0845	0859	0911	1-	5			1			5	0852	C5.3	10691
03	0906	0910	0927	1+	5						7	0904	C8.4	10691
03	1342	1348	1409	1-	5			1			4	1341	C2.7	10691
03	1506	1509	1521	1-	1						1	1504	B9.8	10691
03	1538	1546	1628	2-	5						12	1535	M5.0	10696
03	1637	1642	1708	1+	5						7	1639		10691
03	1655	1657	1715	1	3						3	1653	C3.8	10691
03	1805	1823	1938	3-	3						7	1803	M1.0	10696
04	0703	0722	0846	1	1			1				0723	C1.0	10696
04	0849	0902	1016	2+	3			1			4	0845	C6.3	10696
04	1145	1156	1259	1	1			1				1146	C1.5	10696
04	1301	1349U	1419	1	1			1				*		
04	1608	1611	1627	1	1						1	1606	B8.4	10691
04	1702	1704	1715	1-	1						1	1659	B7.5	10691
04	1904	1907	2030	3	1						1	1905	C1.6	10696
04	2046	2059	2146	2	3						2	2043	C2.8	
04	2144	2209	2253D	2+	1						1	2142	M2.5	10696
04	2256	2300	2345	2-	1						1	2253	M5.4	10696
05	0553	0555	0621	1+	1						1	0549	C2.8	10696
05	0803	0813	0846	1	1			1				No flare		
05	1012	1017	1046	1	5			1			7	1012	C3.0	10696
05	1127	1132	1209	2+	5	1	2	1			6	1123	M4.0	10696
05	1632	1636	1657	1	5						9	1629	C6.9	10696
05	1706	1720	1751	2	3						8	1704	C9.0	10696
05	1811	1822	1852	2-	3						7	1809	C5.2	10696
05	1858	1902	1912	1-	3						4	1858	C4.1	10696
05	1914	1923	2006	2	3						6	1910	M1.2	10696
05	2112	2116	2141	3	1						1	2111		10696
05	2217	2231	2316	2+	1						1	2212	C6.8	10696
06	0021	0028	0050	1+	5						2	0011	M9.3	10696
06	0141	0150	0216	2	1						1	0140	M3.6	10696
06	0652	0658	0714	1+	3						2	0654	C1.8	10696
06	0744	0750	0807	1	1			1				No flare		
06	1029	1050U	1117	1	1			1				1029	B6.8	10696
06	1425	1432	1448	1	5			1			8	1424	C2.6	10696
06	1552	1604	1626	1+	5						10	1541	C9.4	10696
06	1627	1628	1707D	2	1						1	*		
06	1650	1655	1706	1-	3						7	1646	C3.6	10696
06	1707	1714	1748	2-	3						7	1705	C4.6	10696
06	1943	1951	2042	2	3						6	1938	M1.4	10696
06	2058	2101	2122	1+	3						2	2055	C2.4	10696
07	0141	0146	0212	2-	5						2	0138	C3.2	10696
07	0414	0418	0448	2	3						2	0411	C5.3	10696
07	0448	0452	0519	1+	3						2	0445	C5.1	10696
07	0754	0801	0826	1+	5						6	0752	C4.1	10696
07	0930	0949	0952	1	3			1			2	0935	C6.7	10696
07	0951	0959	1031	1+	5			1			7	0935	C6.7	10696
07	1359	1406	1440	2-	5			1			12	1358	C7.0	10696
07	1510	1513	1532	1	5						7	1509	C2.3	10696
07	1547	1601	1657	2-	5						12	1542	X2.0	10696

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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				
07	1611	1634	1814	3	3						3	1542	X2.0	10696
07	2158	2200	2218	1	1						1	2154	C2.8	10696
08	0833	0838	0849	1-	5						3	0833	C1.8	10696
08	0837	0853	0936	2	1		1					0833	C1.8	10696
08	1431	1436	1444	1-	5		1				4	1430	C7.7	10696
08	1543	1547	1605	1	5						3	1543	M2.3	10696
09	0624	0629	0704	2	1						1	0621	C1.8	10698
09	0741	0744	0759	1	3						3	0740	C1.8	10698
09	0822	0845	0920	2	1		1					No flare		
09	0918	0923	0928	1-	1						1	0920	C1.2	10698
09	1049	1053	1056	1-	1						1	No flare		
09	1135	1139U	1236	1	1			1				No flare		
09	1238	1247	1320	1	1			1				No flare		
09	1322	1334	1419	1	1			1				1311	C1.2	10698
09	1348	1350	1355	1-	1						1	1346	C1.0	10698
09	1414	1435	1527	2+	1						1	No flare		
09	1704	1715	1815	2	3						6	1659	M8.9	10696
09	1758	1803	1819	1	3						4	No flare		
09	1845	1855	1917	1+	1						1	1836		10696
10	0205	0211	0248	2	1						1	0159	X2.5	10696
10	0729	0734	0757	1	5						4	0727	C2.6	
10	0809	0814	0840	1+	5						5	0808	C3.2	
10	0852	0858	1031	1	1			1				*		
10	1654	1658	1710	1-	1						1	1651	C1.8	10698
11	0930	1000	1044	2	1			1				*		
12	0944	0949	1013	1+	3			1			1	0943	B7.8	10699
13	1324	1343	1420	1	1			1				1357	B1.7	10700
15	0700	0711	0734	2	1			1				*		
15	0930	0950	1009	1	1			1				0904	C1.5	10700
18	1452	1457	1502	1-	5						5	1449	C3.6	10700
18	1949	1951	2003	1-	1						1	1944	C1.9	10700
19	0048	0051	0103	1-	1						1	0043	C2.9	10700
19	0509	0514	0558	2+	3						2	0503	C4.9	10700
22	0830	0842	0918	1	1			1				0707U	C1.1	
23	0845	0852	0906	1-	5						4	0844	C2.3	
23	1503	1508	1527	1	5			1			8	1502	C6.5	
24	0753	0805	0830	2+	5			1	1		3	0748	C5.9	10706
24	0824	0834	0920	2-	5			1			5	No flare		
24	1719	1722	1740	1	5						7	1718	C8.2	10706
24	1837	1844	1855	1-	3						2	*		
25	1010	1019	1130	1	1			1				1041	C2.6	
25	1058	1102	1115	1-	1						1	1041	C2.6	
26	0852	0907	0935	1	1			1				No flare		
28	1239	1257	1416	1	1			1				*		
29	0138	0144	0201	1	1						1	0130	C3.2	10707
30	0638	0655	0756	2+	1						1	0632	C4.8	10708
30	1101	1112	1130	2	5			1	1		1	1054	C1.8	10707

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OBSERVATORIES REPORTING FOR NOVEMBER 2004

Alberta, Canada	SES	Milan, Italy	SES
Amherst, New Hampshire, USA	SES	Nerja, Spain	SES
Athens, Greece	SES	Palo Alto, California, USA	SES
Bedford, Massachusetts, USA	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Bern, Switzerland	SES	Sofia, Bulgaria	SES
Brookline, Massachusetts, USA	SES	Sussex, United Kingdom	SES
Cambridge, England, UK	SES	Torrington, Connecticut, USA	SES
Edenvale, Rep of S. Africa	SES	Tucson, Arizona, USA	SES
Houston, Texas, 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.