

SUDDEN IONOSPHERIC DISTURBANCES

133
Aug 01

AUGUST 2001

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	0820	0834	0911	2	1		1				No flare		
01	2218	2221	2300	2-	3					2	2222		9561
02	0958	1003	1113	1	1		1				1059	B8.2	
02	1205	1208	1225D	1	1					1	1200	C2.4	9563
02	1225E	1241	1312	2+	1					1	1225	C2.1	9566
02	1455	1501	1526	1	5		1			5	1455	C3.1	9563
02	1556	1612	1639	2-	5					5	1606	C4.8	9563
02	1625	1630	1705	2	1					1	No flare		
02	1743	1744	1755	1-	1					1	1742	C2.8	9563
02	1856	1858	1920	1	3					2	1855	C2.1	9563
02	2008	2011	2033	1+	3					2	2001	C1.8	
03	0306	0307	0330	1	1					1	0302	M1.5	9563
03	0958	1006	1024	1+	1					1	0957	C1.7	9563
03	1142	1149	1213	1+	1					1	1138	C1.6	
03	1633	1635	1647	1-	1					1	1636	C1.0	9557
04	0948	0957	1030	2+	5	1	1	1		3	0944	C7.9	9563
04	1225	1229	1312	3	5	1	2	1		7	1221	C9.6	
04	1838	1845	1920	2	3					2	1837	C2.3	9566
04	1942	1945	2005	1	5					3	1939	C2.8	9557
05	0811	0827	0950	2	1		1				No flare		
05	1040	1051	1108	1+	1					1	1039	C2.4	
05	1252	1257	1311	2	5	1		1		4	1249	C4.1	9566
05	1321	1325	1345	1	5					3	1320	C2.2	9557
05	1433	1439	1457	1	5					3	1422	C2.0	9557
05	1502	1505	1522	1-	5					3	1500	C3.5	9557
05	1528	1531	1601	2+	5	1		1		7	1522	M1.7	9557
05	1828	1832	1853	1	5					3	1825	C3.3	9557
05	2119	2128	2153	1+	5					3	2116	C7.1	9567
05	2217	2222	2306	2-	5					5	2216	M4.9	9557
06	0724	0728	0751	3-	5	1	2	1		2	0722	C5.5	9557
06	0755	0800	0830	2	3					2	0759	C2.0	
06	1212	1219	1243	1+	1					1	1208	C1.7	
06	1236	1240	1344	1	1		1				No flare		
06	1518	1527	1550	2-	3					2	1512	C2.9	9570
07	0728	0736	0826	3	5	1	2	1		3	0726	M1.1	9557
07	0845	0854	0915	1+	1					1	0836	C1.8	9557
07	1036	1049	1111	2	1					1	1032	C2.7	9557
07	1129	1137	1156	1+	1					1	1123	C3.1	9557
07	1250	1304	1330	2	3					2	1233	C2.8	9557
07	1332	1341	1406	2	5	1	1	1		7	1330	C3.5	
07	1441	1448	1516	1+	5		1			6	1440	C2.8	
07	1534	1540	1606	1+	5					5	1530	C2.7	9563
07	1625	1629	1654	1+	5					4	1623	C3.6	9557
07	1851	1855	1917	1	5					3	1851	C3.5	
07	2115	2128	2215	2+	1					1	2112	C4.1	
07	2216	2222	2300	2	1					1	*		
07	2322	2330	2345	1	1					1	2324	C3.8	
08	0710	0714	0736	2	5		2	1		2	0706	C3.9	
08	0749	0756	0806	2-	5		1	1		2	0749	C4.5	9557
08	0754	0810	0858	2	1		1				0749	C4.5	9557
08	1016	1034	1059	2	5		2	1		1	1029	C2.6	9563
08	1459	1503	1525	1	3					2	1459	C1.6	9563
08	1652	1701	1736	2	5					5	1650	C4.2	
08	1704	1719	1756	1	1		1				1650	C4.2	
08	1956	2000	2027	1+	5					3	1954	C4.0	9566
08	2218	2220	2245	1+	1					1	*		
09	0640	0643	0647D	1-	1					1	0639	C3.8	
09	0644	0655	0722	2	5					2	0639	C3.8	

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						SWF	SEA	SPA	LF-SPA	SES			
09	0722	0728	0755	2-	5					2	0721	C3.1	
09	0811	0815	0835	1	5					2	0808	C2.6	9567
09	1025	1058	1158	1-	5		1			1	No flare		
09	1118	1124	1159	2+	5	1		1			1116	C3.7	
09	1825	1832	1916	2	5					5	1822	C7.8	9570
10	1540	1545	1554	1-	1					1	1540	C1.7	
10	1847	1859	1906	1	1					1	1840	C2.4	9563
11	2007	2009	2020	1-	1					1	*		
12	1712	1714	1730	1-	1					1	1709	C1.6	
12	2052	2059	2130	2-	3					2	2052	C2.2	
13	1349	1405	1443	2+	5	1	2	1		2	1343	C4.6	
14	0940	0944	1032	3-	5	1	2	1		3	0934	C9.7	
16	0954	1005	1106	2	5	1	1	1		2	0951	C3.9	
16	1520	1525	1530	1-	1					1	1514	B7.6	
16	1744	1746	1815	1+	1					1	1740	B8.8	
17	0910	0915	0920	2+	1					1	No flare		
18	0400	0402	0415	1-	1					1	0355	C2.9	
18	0955	1002U	1026	1	1		1				No flare		
18	1111	1122	1154	2+	5	1		1			1109	C3.1	9582
18	1248	1252	1315	1+	1					1	1245	C2.8	9582
20	0754	0800	0834	1	1		1				0750		
20	0822	0823	0845	1	1					1	0817	C3.6	9582
21	1320	1355	1454	1	1		1				No flare		
21	1539	1546	1626	2	3					2	*		
21	1642	1656	1730	1	1		1				*		
21	2154	2159	2221	1+	3					3	2151	M1.5	
22	0445	0450	0500	1-	1					1	No flare		
22	0504	0507	0540	2	1					1	0502	C6.2	
22	0736	0743	0821	2	5	1		1		1	0735	C4.2	
22	0906	0910	0941	3-	5	1	2	1		2	0904	C6.6	
22	0935	0940	0958	1-	5		1			2	0924	C3.9	
22	1201	1219	1242	3	5	1	2	1		2	1158	M1.0	
22	1502	1507	1522	1-	5					3	1502	C3.7	9591
22	1550	1555	1615	1	1					1	1554	C2.8	
22	1723	1731	1802	2-	5					2	1725	C5.4	9591
22	1844	1849	1855	1-	1					1	1844	C7.5	9591
22	2114	2117	2122	1-	1					1	2112	C7.0	9591
23	0140	0142	0151	1-	1					1	*		
23	0512	0515	0600	2+	1					1	0508	C8.3	
23	0755	0800	0830	2	1					1	0755	C3.0	
23	0946	0950	1007	1	1					1	0944	C3.3	
23	1114	1125	1156	2	5	1		1			1112	C4.8	
23	1346	1350	1408	2-	5	1		1		5	1342	C5.9	
23	1751	1756	1830	2-	5					4	1752	C3.8	9591
24	0624	0630	0715	2+	1					1	0622	C3.8	
24	0854	0905	1004	3-	5	1		1		2	0848	M1.1	9591
24	0858	0936	1021	1	1		1				0848	M1.1	9591
24	1153	1158	1201	1-	1					1	1152		9591
24	1209	1215	1219	1-	1					1	No flare		
24	1315	1320	1330	1-	5					3	1315	C4.3	9591
24	1332	1336	1405	2	5	1	1	1		5	1330	C5.7	9591
24	1510	1513	1538	2	5	1	2	1		5	1508	C4.8	9591
24	1655	1702	1725	1+	5		1			5	1658	C3.8	
24	1750	1759	1825	2-	5					3	1750	C4.0	
24	1841	1851	1931	2-	5					4	1829	C5.5	

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						SWF	SEA	SPA	LF- SPA	SES			
24	2015	2024	2044	1	5					2	2005	C7.8	
24	2033	2045	2113	2	1					1	2005	C7.8	
24	2113	2115	2145	1+	1					1	2113	C7.0	
24	2231	2245	2339	2+	1					1	2231	M1.2	
24	2333	2640	2528D	3	1					1	2347	M3.5	9591
25	0723	0727	0800	2	1					1	0717	C3.6	9591
25	0817	0821	0837	1	1					1	0819	C2.6	9591
25	0842	0845	0856	1-	1					1	0840	C2.5	9591
25	0920	0926	1021	3	5	1	1	1		1	0909	M1.2	9591
25	0957E	0958	1010	1-	1					1	0953	C3.7	9591
25	1322	1325	1344	1	5					3	1323	C3.2	9591
25	1406	1412	1442	2	3					2	1411	C2.3	
25	1528	1531	1542	1-	5					3	1529	C2.2	9591
25	1627	1635	1748	3	5		2	1		5	1623	X5.3	9591
25	1640	1730	2130	3+	1					1	1623	X5.3	9591
25	1954	1957	2008	1-	5					2	1952	M1.1	9591
25	2216	2220	2251	2-	3					2	2216	C9.6	9587
25	2342	2345	2428	2+	1					1	2341	C7.0	9591
26	0917	0929	0944	1+	5					2	0916	C3.4	9591
26	1004	1016	1051	2	5	1		1		1	1002	C6.1	9591
26	1012	1023	1053	2	1					1	No flare		
26	1210	1232	1256	2+	1					1	1206	M1.3	
26	1222	1306	1507	3	5	1	1	1		5	1206	M1.3	
27	0633	0644	0722	3-	5	1	2	1			0631	M1.9	
27	1341	1348	1412	2	5	1	1	1		2	1338	C4.6	9591
27	1410	1415	1516	2+	1					1	1411	C3.3	9591
27	1524	1532	1603	2-	3					2	1525	C3.9	9591
28	0003	0007	0035	1+	1					1	0002	M1.0	9591
28	0652	0656	0709	2	5	1	1	1		1	0650	C4.2	9600
28	0744	0751	0810	2	5	1	2	1		1	0743	M1.2	9601
28	0815E	0820	0900	2	1					1	0743	M1.2	9601
28	0820	0829	0900	3	5	1		1		1	0743	M1.2	9601
28	0922	0926	0947	2+	5	1	1	1		2	0923	C9.0	
28	0954	1002U	1021	1	1			1			1003	C6.3	9591
28	1146	1151	1207	2+	5	1	1	1		3	1145	C5.1	9600
28	1219	1224	1244	2	5	1	1	1		3	1217	C5.5	9587
28	1337	1344	1404	3-	5	1	1	1		6	1335	C9.4	9587
28	1434	1437	1454	1-	5					5	1434	C4.4	
28	1514	1516	1531	1-	1					1	No flare		
28	1532	1538	1553	1-	5					5	1532	C5.7	9600
28	1555	1609	1655	2	5					5	1556	M1.1	9600
28	1943	1947	2001	1-	5					3	1942	C6.1	9600
28	2003	2008	2037	1+	5					5	2002	C6.5	9600
29	0506	0516	0547	2-	1					1	0503	M1.6	9600
29	0711	0713	0757	2+	5	1	2	1		2	0713	C6.7	
29	0911	0915	0954	3	5	1	1	1		2	0908	C6.5	
29	1109	1116	1138	2	5	1		1		1	1108	C6.2	9591
29	1227	1246	1246	1	1			1			No flare		
29	1244	1259	1337	3	5	1	2	1		8	1242	M1.2	9600
29	1342	1347	1434	2+	1					1	No flare		
29	1438	1446	1509	3-	5	1	2	1		8	1437	C7.4	9601
29	1815	1825	1915	2+	1					1	1819	C3.3	9600
29	2015	2019	2052	2-	5					5	2013	C9.6	9600
30	0639	0649	0709	1	3		1			1	0641	C6.0	9591
30	0815	0820	0845	1+	1					1	0817	C2.3	
30	1728	1732	1746	1-	5					5	1727	C3.7	
30	1746	1750	1828	2-	5					5	1745	M1.5	9591
30	2032	2036	2115	2-	5					6	2034	M3.0	9601
31	0820	0838U	1007	2	1			1			No flare		
31	1037	1045	1111	3	5	1	2	1		3	1035	M1.6	9601

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						SWF	SEA	SPA	LF- SPA	SES			
31	1135	1145	1218	2	5	1		1		1	1133	C4.8	9601
31	1456	1610	1657	1	1		1				1503	C1.7	9601
31	2120	2122	2210	2	3					2	2120	C8.6	9601
31	2235	2241	2326	2	3					2	2227	M2.9	9601

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OBSERVATORIES REPORTING FOR AUGUST 2001

Bedford, Massachusetts, USA	SES	Milan, Italy	SES
Bern, Switzerland	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Brookline, Massachusetts, USA	SES	Sussex, United Kingdom	SES
Edenvale, Rep of S. Africa	SES	Torrington, Connecticut, USA	SES
Houston, Texas, USA	SES	Udine City, Italy	SES
Hudson, Ohio, USA	SES	Upice, Czech Republic	SEA
Isola del Gran Sasso, Italy	SES		

Observations are not necessarily continuous.