

SUDDEN IONOSPHERIC DISTURBANCES

MARCH 2002

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	1114	1121	1147	1+	5					2	1111	C3.1	
01	1405	1408	1419	1-	3					3	1404	C1.8	
01	1427	1435	1447	1	1					1	1426	C2.8	9851
01	1529	1532	1541	1-	3					4	1528	C2.0	
01	1622	1631	1700	1+	5		1			5	1623	C5.6	9851
01	1709	1713	1730	1-	3					5	1708	C4.7	
02	0922	0925	0951	1	1					1	0920	C1.6	9844
02	2010	2019	2047	2	1					1	2010	C4.4	9845
03	0859	0902	0919	3	1			1			*		
03	1817	1823	1906	2	3					5	1816	C2.3	
04	0732	0734	0757	2-	1					1	0729	C3.2	
04	2052	2059	2106	1-	1					1	2052	C1.4	
07	0807	0818	0921	2	1					1	0807	C2.5	
07	1340	1356	1427	2-	5		1			3	1338	C2.7	
07	1422	1429	1452	1+	1					1	No flare		
07	1622	1625	1632	1-	1					1	1621	C1.8	
07	1748	1753	1817	1+	3					3	1748	C2.5	
07	2048	2056	2200	3-	3					2	2046	C6.3	
07	2222	2232	2300	2	1					1	2216	C7.8	
07	2300	2318	2402	2+	1					1	*		
08	0903	0906	0932	1	5					4	0902	C4.3	
08	1106	1113	1130	1	1					1	1103	C2.2	
08	1452	1455	1508	1-	5					5	1451	C2.0	
08	1650	1652	1714	1	5					6	1647	C8.6	
08	1753	1758	1822	1+	5					5	1753	C4.4	
09	0907	0911	0925	1-	3					2	0904	C1.8	9866
09	1053	1058	1116	1-	5					2	1050	C2.8	
09	1413	1423	1435	1	5					3	1405	C3.3	9864
09	1430	1437	1505	1	1					1	1432		9866
09	1833	1841	2021	3	5					7	1831	M2.6	9866
09	2145	2212	2326	3	1					1	2144	M1.3	9866
10	0134	0136	0145	1-	1					1	0133	C5.1	
10	0503	0505	0535	1+	1					1	0501	C6.0	9866
10	0941	0945	0959	1-	1					1	0938	C2.0	
10	1000	1004	1049	1-	1					1	0959	C2.2	
10	1100	1108	1133	1	3					2	1057	C2.7	
12	0744	0753	0802	1-	1					1	No flare		
12	0836	0838	0844	3-	5	1		1		3	0831	C5.3	9866
12	1248	1251	1303	1-	1					1	No flare		
12	1307	1319	1407	1-	5		1			2	1310	C2.0	9866
12	1906	1909	1927	1	3					4	1904	C2.2	9866
12	2307	2317	2406	2+	1					1	2301	M1.5	9871
13	1023	1027	1050	1	5					2	1021	C1.6	
13	2207	2211	2255	2	3					2	2203	C7.8	9859
13	2317	2331	2402	2	1					1	2302	M1.0	9871
14	1646	1651	1717	1+	5					7	1644	C4.9	9871
15	0758	0815U	0857	2	1			1			No flare		
15	2219	2247	2512	3+	1					1	2209	M2.2	9866
16	1126	1130	1142	1	1			1			1120	C2.9	9871
16	1218	1227	1315	1	1			1			No flare		
16	1445	1451	1506	1	1					1	1448	C2.3	9864
17	0452	0455	0510	1-	1					1	0452	C3.1	9871
17	0533	0540	0600	1+	1					1	0535	C1.5	
17	1017	1025	1035	3	5	1	2	1		6	1011	M1.3	

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						SWF	SEA	SPA	LF-SPA	SES			
17	1434	1439	1457	1	5					4	1433	C1.3	9866
17	1533	1539	1617	2	3					2	1533	C1.8	9866
17	1701	1704	1743	2-	3					5	1701	C4.5	9871
17	1926	1930	2030	2+	3					6	1924	M4.0	9871
18	1145	1152	1225	2	5	1	2	1		2	1140	C6.2	9870
18	1911	1920	2001	2+	1					3	1906	C8.9	9871
19	1016	1106	1151	1	3		1			1	1106	M1.0	9866
19	1110	1145	1300	3-	5	1	2	1		2	1106	M1.0	9866
20	2117	2122	2145	1+	1					1	2117	C2.4	
21	0747	0810	0911	2-	3		1			1	0745	C5.9	9866
21	1525	1533	1603	2-	5		1			4	1523	C2.6	
21	2034	2044	2115	2	1					1	2024	C2.0	
22	0611	0622	0734	2	3		1			1	0609	C8.0	
22	0741	0803	0842	1	1		1				No flare		
22	1055	1116	1201	3	5	1	2	1		4	1012	M1.6	
23	1428	1433	1455	1+	5					5	1425	C3.5	9876
23	1912	1918	1957	2	3					4	1905	C2.6	9876
24	1732	1753	1858	2+	3					4	1730	C5.1	9876
24	2037	2040	2055	1	1					1	2032	C4.5	9881
24	2122	2127	2200	2	1					1	2120	C1.8	
25	0630	0635	0716	2-	1					1	0629	C2.8	
25	1037	1045	1111	2+	5	1	2	1		4	1031	C6.0	9878
25	1127	1130	1149	1	1					1	1124	C2.1	
26	0803	0842	0935	1	1		1				*		
26	1511	1520	1552	2-	5		1			3	1512	C3.0	9878
26	1550	1555	1630	2	1					1	No flare		
26	2001	2003	2027	1+	1					2	1958	C2.1	9881
26	2025	2026	2037	1-	1					1	2025	C1.5	9881
27	1301	1305	1315	2-	5	1	2	1		4	1254	C3.0	
27	1345	1352	1457	1	3		1			1	No flare		
27	1611	1633U	1657	1	1		1				No flare		
27	2043	2047	2101U	1-	1					1	2040	C2.0	
28	1138	1144	1246	1	5		1			2	1134	C2.5	
28	1754	1802	1905	2+	3					5	1754	C7.6	
28	2009	2011	2015	1-	1					1	*		
29	0740	0744	0810	1	3		1			1	0738	C2.5	9880
29	0909	0912	0925	1-	1					1	0908	C1.9	
29	1004	1025	1043	1	1		1				No flare		
29	1110	1124	1219	2	1					1	1107	C3.1	9880
29	1149	1152	1204	1-	1					1	1107	C3.1	9880
29	1249	1254	1317	1+	5	1	2	1		7	1239	C6.5	9884
29	1408	1421	1538	1	1		1				1416		9885
29	1718	1727	1738	1	1					1	1715	C2.2	
29	1919	1924	1948	1+	3					4	1917	C3.7	9887
30	0707	0713	0725	2+	5		1	1		3	0702	C9.1	
30	0941	1010	1044	1	1		1				No flare		
30	1157	1205	1232	1+	5		1			4	1155	C5.1	9885
30	1244D	1248	1315	1+	1					1	1245	M3.4	9885
30	1254	1301	1314	3	5	1	2	1		9	1245	M3.4	9885
30	1935	1939	2002	1+	3					2	1936	C4.5	9885
30	2223	2228	2253	1+	1					1	2219	M1.0	

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						SWF	SEA	SPA	LF- SPA	SES			
31	0630	0710	0800	1	1		1				No flare		
31	0803	0848	1036	1	1		1				No flare		
31	1009	1014	1018	1	5					2	1005	C2.9	9885
31	1039	1103	1123	3	5	1	2	1		3	1039	M1.0	9885
31	1233	1259	1412	1	1		1				1232		9885
31	1450	1455	1512	2	5		1	1		6	1449	C5.2	9886

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OBSERVATORIES REPORTING FOR MARCH 2002

Alberta, Canada	SES	Milan, Italy	SES
Bedford, Massachusetts, USA	SES	Nerja, Spain	SES
Bern, Switzerland	SES	New Milford, New York, USA	SES
Brookline, Massachusetts, USA	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Cambridge, England, UK	SES	Parma, Ohio, USA	SES
Edenvale, Rep of S. Africa	SES	Sofia, Bulgaria	SES
High Bridge, New Jersey, USA	SES	Sussex, United Kingdom	SES
Houston, Texas, USA	SES	Torrington, Connecticut, USA	SES
Isola del Gran Sasso, Italy	SES	Upice, Czech Republic	SEA
Marlborough, Massachusetts, USA	SES	Villiersdorp, South Africa	SES

Observations are not necessarily continuous.