

SUDDEN IONOSPHERIC DISTURBANCES

APRIL 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	0823	0840	0925	1	1			1			No flare		
01	1004	1038U	1115	1	1			1			No flare		
01	1530	1538	1553	2	5	1	2	1		1	1529	C3.0	9886
02	0433	0438	0500	1+	1					1	0431	C6.0	
02	0713	0718	0735	1	1					1	No flare		
02	0743	0748	0842	1+	1					1	0742	C2.4	
02	1318	1321	1344	2	5	1	2	1		2	1315	C4.0	9887
02	1406	1412	1432	2	5	1	2	1		6	1404	C3.3	9887
02	1440	1444	1456	1-	5					2	1438	C2.6	9887
02	1458	1500	1515	1-	5					2	No flare		
02	1541	1547	1609	1	5		1			4	1541	C2.5	9887
02	1657	1701	1729	1+	5					4	1656	C2.8	9887
02	1731	1735	1739	1-	1					1	1734	C1.3	
02	1900	1904	1929	1+	5					3	1900	C2.2	
02	2001	2007	2050	2	5					2	1955	C3.1	
02	2240	2244	2315	2	1					1	2237	C2.3	
03	0745	0805	1003	1	1		1				No flare		
03	1422	1426	1437	2+	5	1	1	1		5	1418	C2.8	
03	1957	2001	2023	1+	5					2	1955	C3.2	
04	0423	0435	0530	2+	1					1	0423	C9.8	9893
04	0646	0649	0704	1	1					1	0651	C3.0	9888
04	0903	0911	0930	1	1					1	No flare		
04	1043	1045	1129	3	5	1	2	1		7	1041	M1.4	
04	1415	1419	1436	1	5		1			5	1413	C3.0	
04	1434	1437	1451	1-	5					5	1433	C3.0	9885
04	1527	1540	1601	3-	5	1	2	1		10	1524	M6.1	
05	1309	1315	1349	1+	5		1			5	1307	C3.0	
05	1438	1443	1458	1	5		1			4	1439	C2.5	9887
05	1515	1521	1551	1+	5		1			7	1513	C3.4	9893
05	1716	1720	1745	2-	5					4	1716	C3.0	9886
05	1947	1950	2036	2+	1					1	1947	C2.9	9885
06	0607	0619	0657	2-	5		1			3	0604	C9.5	9893
06	1040	1045	1110	1+	1					1	No flare		
06	1404	1415	1459	1+	5	1	1	1		4	1403	C2.6	9887
06	1945	1948	2017	1+	1					1	1945	C2.0	9893
07	0516	0520	0535	1	1					1	0519	C2.7	9893
07	0818	0824	0824D	2+	5	1	1	1		5	0814	C6.0	9893
07	1420	1429	1501	2	5	1	1	1		5	1417	C4.4	9898
07	1508	1515	1537	1+	5					2	1507	C2.8	
07	1912	1919	2008	2+	1					1	1917	C1.7	
09	0039	0042	0050	1-	1					1	0038	M2.1	9899
09	0601	0609	0730	2	5		1			2	0602		9903
09	0728	0738	0823	2-	5					3	No flare		
09	1259	1302	1337	3-	5		2	1		8	1254	M1.1	
09	1548	1555	1628	2	5					2	No flare		
09	1727	1734	1747	1	1					1	1730	C2.2	
09	1906	1914	2004	2+	5					2	1908	C4.1	9904
10	0644	0649	0720	1+	5					3	0641	C4.3	9899
10	1226	1231	1304	3	5	1	2	1		11	1223	M8.2	9893
10	1418	1425	1456	1+	5		1			6	1417	C5.0	
10	1538	1542	1608	1	5		1			5	1538	C4.2	9893
10	1848	1853	1900	1-	5					2	1848	M1.6	9899
10	1857	1904	1952	2	5					6	1848	M1.6	9899
11	0601	0609	0652	2	3					2	0559	C4.4	9900
11	0904	0906	0920	1-	1					1	0901	C2.3	
11	0928	0932	0947	1	5					3	0924	C3.4	
11	1554	1558	1620D	1+	1					1	1553	C2.0	

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						SWF	SEA	SPA	LF-SPA	SES			
11	1620	1626	1646	2+	5	1	2	1		7	1616	C9.2	9904
11	1834	1838	1922	2	5					5	1833	C7.2	
12	0307	0310	0330	1	1					1	0304	C5.0	9907
12	1308	1311	1345	3	5	1	2	1		10	1305	M1.4	
12	1335	1344	1405	1+	5					5	*		
12	1559	1602	1628	3-	5	1	2	1		7	1557	C7.7	9907
12	1730	1741	1757	1	5					2	1731	M4.0	9901
12	1738	1750	1933	3-	3					5	1731	M4.0	9901
13	1011	1017	1111	1+	1					1	1008	C3.2	
13	1212	1216	1230	1+	5	1		1		1	1208	C3.1	9907
13	1333	1339	1339D	2-	5	1	1	1		3	1331	C2.6	
13	1631	1636	1702	1+	1					1	1629	C2.3	9907
14	0449	0453	0515	1	5					2	0448	C8.6	9907
14	0651	0655	0719	2	5					3	0650	C5.3	9907
14	0729	0735	0824	3	5	1	1	1		4	0728	C9.6	9893
14	1006	1011	1106	1	1		1				*		
14	1337	1342	1438	2+	5					2	1337	C3.8	9906
14	1932	1943	2041	2+	5					2	1936	C2.0	
14	2052	2058	2104D	1-	1					1	2051	C4.4	9907
14	2104	2115	2224	2+	1					1	2104	C7.3	9893
14	2225	2230	2330	2+	1					1	2222	C7.2	9893
15	1726	1731	1811	2-	5					2	1722	C3.1	9905
15	1932	1933	1947	1-	1					1	1935	C1.6	
15	2306	2315	2413	2+	1					1	2305	M1.2	
16	0752	0859	0945	1	1		1				No flare		
16	1040	1046	1120	3	5	1	2	1		5	1037	C9.3	9904
16	1301	1316	1420	3	5	1	2	1		8	1253	M2.5	9893
16	1538	1540	1552	1-	3					2	1535	C2.9	
17	0654	0656	0720	1	3					2	0652	C1.8	9905
17	0746	0813	1039	3	5	1		1		3	0746	M2.6	9906
17	0751	0824	1024	2+	5		2			3	0746	M2.6	9906
17	1124	1127	1142	1-	1					1	1135		9906
17	1337	1343	1413	1+	5		1			6	1337	C6.9	9905
17	1652	1700	1745	2	5					7	1650	C9.8	
18	0637	0642	0651	2+	5	1	2	1		3	0636	C9.4	
18	0858	0907	0940	1+	5		1			3	0905		9906
18	1045	1050	1122	1	5					3	1044	C2.6	
18	1513	1518	1556	2	5					3	1512	C3.0	9905
19	0701	0705	0722	1	3		1			2	0658	C3.3	
19	0752	0754	0805	1-	3					2	0750	C2.0	9906
19	0903	0908	0929	2-	5	1		1		3	0901	C2.3	
19	1518	1521	1542D	1	1					1	1516	C2.5	9906
19	1542	1552	1630	2+	1					1	1544		9906
19	1642	1646	1732	2	5					4	No flare		
19	1813	1822	1930	2+	5					4	1814	C3.4	9906
19	2006	2010	2045	2	1					1	2005	C1.6	
19	2107	2115	2230	2+	1					1	2107	C2.2	
19	2338	2340	2420D	2	1					1	No flare		
20	1154	1211	1251	2+	1					1	1141	C2.7	
20	1421	1423	1515	2+	1					1	1419	C2.1	
20	1536	1545	1638	2	5		1			7	1538	C4.1	9912
20	1737	1745	1830	2+	1					1	1734	C2.2	
21	0553	0605	0630	1+	1					1	0607		9912
21	1240	1251	1311	1	1		1				*		
21	1737	1810	1836	2+	1					1	1737	C8.3	
22	0545	0550	0636	2-	1					1	0543	C5.5	9916
22	0803	0811	0830	1	1		1				No flare		

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						SWF	SEA	SPA	LF-SPA	SES			
22	1202	1211	1245	3-	5	1	1	1		3	1154	C2.8	9912
22	1359	1401	1406	1-	1							No flare	
24	1547	1556	1622	2+	5	1	2	1		5	1544	C4.8	9912
24	1633	1642	1730	2+	1					1	1632	C2.3	9916
24	1742	1752	1830	2+	1					1	1743	C1.9	
24	2150	2155	2249	2	5					3	2146	M1.7	9912
25	0539	0542	0548	1	3					2	0536	C2.8	9912
25	0557	0601	0621	1+	1					1	0554	C2.5	9912
25	1857	1904	2000	2+	1					1	1855	C1.6	
26	0922	0940U	1050	1	1		1				0958	C1.2	
26	1456	1502	1545	2+	1					1	1452	C2.0	
26	1934	1943	2030	2+	1					1	1931	C2.1	
27	1532	1541	1629	2	5					5	1529	C4.0	9919
28	0909	0922U	1004	1	1		1					No flare	
29	0830	0843U	0908	1	1		1					No flare	
29	0913	0917	0923	2	5	1		1				No flare	
29	0925	0931	1003	2+	5	1	2	1		3	0922	C3.4	
29	1044	1048	1057	2	5	1	1	1			1032	C4.1	
29	1247	1255	1316	2	5	1	2	1		1	1257	C2.2	
30	0637	0641	0656	2+	5	1		1			0647	C3.2	9919
30	0652	0656	0705	1+	3					2	0647	C3.2	9919
30	0806	0809	0902	3	5	1	1	1		1	0817	M1.3	
30	0821	0825	0924	2	5		1			4	0817	M1.3	
30	1055	1110	1151	2+	5	1	2	1		3	1106	C3.2	9914
30	1401	1409	1427	1+	5	1		1			1410	C3.7	
30	1412	1420	1503	2-	3					9	1410	C3.7	

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OBSERVATORIES REPORTING FOR APRIL 2002

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

Observations are not necessarily continuous.