SUDDEN IONOSPHERIC DISTURBANCES

APRIL 2003

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	SES	Flare (UT)	X-ray Class	NOAA Region
01	0801	0803	0808	1-	1					1	0804	B9.1	
01	0920	0934	0948	1	1		1				No flare		
01	1433	1449	1606	2	5		1			1	1432	C2.3	10318
02	1508	1517	1540	1+	5		1			9	1507	C3.6	10324
03	0429	0435	0450	1	1					1	0428	C1.5	10324
03	0713	0715	0743	1+	1					1	0710	C1.9	
03	0748	0805	0942	1	1		1				No flare		
03	1022	1028	1057	2+	5	1	1	1		6	1013	C6.5	10324
03	1500	1519	1530	1	1		1				No flare		
03	2009	2017	2042	2	1					1	2016		10324
04	0550	0557	0628	2	3					2	*		
04	0652	0658	0721	2-	3					2	0650	C2.4	10324
04	0838	0842	0914	1+	5					5	0835	C2.8	10324
04	0950	1001	1020	1+	5					2	0946	C2.0	10324
04	1211	1219	1235	2	5	1	2	1		6	1208	C3.9	10324
04	1335	1341	1401	1	5		1			5	1328	C3.1	10321
04	1414	1420	1448	1	5		1			6	1410	C3.4	10324
04	1547	1554	1612	1	3					4	1546	C2.7	10321
04	1617	1621	1648	1	1		1				No flare		
04	1701	1706	1715	1-	1					1	1700	C1.6	10321
05	0654	0707	0854	1	1		1				No flare		
05	0912	0918	0949	3-	5	1	2	1		8	0909	C6.9	10324
05	1015	1020	1031	2	5	1		1		5	1012	C3.5	
05	1125	1131	1150	1-	3					4	1126	C1.1	
05	1320	1349	1422	1	1		1				No flare		
05	1430	1432	1450	1	1		1				1421	C4.9	10324
05	1456	1511	1527	1+	3		1			2	1421	C4.9	10324
05	1847	1853	1904	1-	1					1	1850	C1.2	
06	0805	0809	0854	3-	5	1	1	1		5	0800	C4.2	10324
06	1920	1928	2011	2	3					3	1918	C5.9	10324
07	1151	1230	1258	1	1		1				No flare		
08	0819	0851	1005	2	1		1				No flare		
08	1035	1050	1206	1	1		1				No flare		
08	1314	1336	1415	1	1		1				No flare		
08	1418	1421	1426	1-	1					1	1417	B3.2	
09	0600	0613	0726	2-	3		1			2	0554	C4.7	
09	0925	0933	1006	3-	5	1	1	1		6	0922	C6.4	
09	1127	1141	1153	1	1		1				No flare		
09	1154	1201	1206	1-	1					1	1154	B7.9	
09	1333	1333	1335	1-	1					1	1327	B4.2	
09	2325	2332	2416	2+	1					1	2323	M2.5	10326
11	0726	0731	0813	3-	5	1	2	1		4	0723	C7.4	
13	0850	0856	0927	1+	5					7	0845	C2.7	10330
14	0504	0505	0532	2	1		1				No flare		
14	0801	0819	0834	2	1					1	0809	B6.4	
15	1357	1400	1406	1-	1					1	1348	B4.4	10330
18	1148	1153	1157	1-	1					1	1147	B7.6	10337
18	1356	1401	1412	1-	1					1	1353	B4.8	10337
18	1953	2000	2041	2	3					3	1950	M1.1	10337
19	1437	1440	1445	1-	1					1	1439	B4.0	
20	1532	1551	1630	1	1		1				No flare		
20	1920	1924	1956	2-	3					4	1918	C4.4	10339

* = no flare patrol.

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21	1302	1307	1337	3	5	1	2	1		7	1254	M2.8	10338
21	1556	1601	1609	1-	1					2	1551	C2.3	10337
22	1207	1218U	1251	1	1		1				*		
22	1614	1619	1634	1	5					4	1613	C2.2	10338
22	1952	2009	2103D	2+	1					1	1941	C4.0	10338
22	2104	2107	2123	1	1					1	2103	C3.0	10339
23	1032	1038	1107	1	3					4	1031	C1.9	10338
23	1205	1215	1306	2	5	1	1	1		6	1200	C5.8	10339
23	1542	1545	1555	3	5	1	2	1		8	1536	M2.0	10338
24	0450	0458	0520	2	3					3	0448	C7.1	10339
24	0530	0534	0611	2	3					3	0530	C4.5	10337
24	0811	0815	0847	2	1					1	0809	C1.4	10339
24	1250	1252	1327	3	5	1	2	1		11	1245	M3.3	10338
24	1440	1453	1528	1	1		1				No flare		
24	1545	1547	1606	2+	5	1	2	1		9	1541	C8.2	
25	0056	0100	0105	1-	1					1	0100	C1.5	
25	0529	0534	0543	2	5	1	1	1		3	0523	M1.2	10346
25	0912	0916	0940	1	3					3	0910	C1.7	
25	1359	1410	1422	1	1					1	1344	C1.5	10338
25	1715	1722	1753	2-	3					3	1712	C2.7	10338
25	1948	1953	2031	2	5					5	1945	C7.5	10338
25	2053	2058	2125	1+	5					5	2051	C6.8	10338
25	2159	2202	2232	1+	1					1	2154	C4.1	10338
26	0054	0058	0113	1-	5					3	0051	M2.1	10338
26	0143	0151	0233	2+	1					1	0138	C6.6	10338
26	0302	0306	0349	2-	3					2	0301	M2.1	10338
26	0805	0809	0838	3-	5	1	2	1		5	0801	M7.0	10338
26	1445	1449	1512	2	5	1	2	1		8	1439	C6.0	10338
26	1502	1505	1524	1	1					1	No flare		
26	1541	1543	1604	1	5					4	1537	C1.3	10338
26	1633	1637	1705	2+	5	1	2	1		8	1630	C5.5	10338
26	1756	1759	1832	1+	3					4	1754	C5.1	10338
26	1937	1940	2022	2	3					3	1934	C3.8	10338
26	2337	2340	2405	1+	1					1	2337	M2.5	10338
27	0538	0549	0631	2-	1					1	0537	C2.5	10338
27	0737	0741	0741U	2	5	1	2	1		6	0737	C8.1	
27	0812	0817	0851	1+	3					6	0809	C3.6	10338
27	1211	1217	1233	1	1					2	1210	C1.6	10338
27	1330	1333	1343	1-	1					1	1329	C1.7	10338
27	1530	1532	1550	2+	5	1	1	1		8	1527	M1.7	10338
27	1603	1607	1645	2	5					2	1601	C2.2	10338
27	1607	1625U	1650	1	1		1				1601	C2.2	10338
28	1009	1018	1027	1-	1					1	1010	C1.5	10338
28	1322	1335	1452	1	1		1				1340	B8.9	10337
28	1813	1819	1838	1+	1					1	1811	C3.3	10334
29	1055	1059	1116	1	3					3	1053	C2.1	10349
29	1344	1352	1405	1	1		1				1334	B9.9	10349
29	1405	1410	1441	1	1		1				1334	B9.9	10349
29	1655	1701	1722	1+	1					1	1653	C1.7	10349

OBSERVATORIES REPORTING FOR APRIL 2003

Alberta, Canada	SES	Nerja, Spain	SES
Athens, Greece	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Bedford, Massachusetts, USA	SES	Perth, Australia	SES
Bern, Switzerland	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	Udine City, Italy	SES
Isola del Gran Sasso, Italy	SES	Upice, Czech Republic	SEA
Marlborough, Massachusetts, USA	SES	Villiersdorp, South Africa	SES
Milan, Italy	SES		

Observations are not necessarily continuous.