

SUDDEN IONOSPHERIC DISTURBANCES

JUNE 2003

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	0705	0708	0740	3	5	1	2	1		5	0701	M1.0	10375
01	0746	0751	0804	1	3					3	0746	C4.6	
01	0901	0907	0919	2	5	1	1	1		3	0857	C5.0	
01	1247	1257	1325	3-	5	1	2	1		11	1239	M1.0	10375
01	1455	1504	1532	1	3		1			1	*		
01	1609	1617	1642	1	1		1				1558	B9.1	
01	1649	1651	1735	3-	5		2	1		7	1643	M1.4	10365
01	1721	1729	1744	1	1					1	No flare		
01	1849	1852	1918	1+	1					1	*		
01	1929	1945	2025	2+	3					2	1927	C1.7	
01	2046	2051	2059D	1-	1					1	No flare		
01	2100	2107	2143	2	3					2	2058	M1.0	
02	0830	0833	0859	3	5	1	1	1		5	0812	M3.9	10365
02	1216	1222	1234	2+	5	1	1	1		2	1210	C8.0	10375
02	1315	1324	1354	2+	5	1	1	1		4	1313	M1.0	10365
02	1537	1540	1608	3-	5	1	2	1		4	1534	C9.0	10365
02	1727	1736	1745	2	5		2	1		2	1722	M1.8	10375
03	1053	1100	1149	2-	3					2	1051	C2.9	10375
04	1513	1537	1620	2+	3					3	No flare		
04	1544	1623	1704	1	1		1				No flare		
05	0633	0646	0735	1	1		1				No flare		
05	1718	1731	1837	2+	1					1	1708	C1.7	10375
06	1250	1254	1310	1	3					2	1249	C1.5	
06	1311	1316	1341	2-	3					2	1309	C1.5	
06	1352	1400	1420	1+	5					3	1352	C2.8	10375
06	1420	1432	1507	2-	3					2	1420	C2.3	
06	1448	1454	1505	1-	1					1	1420	C2.3	
06	1538	1542	1559	1	1					1	1538	C1.6	
06	1611	1619	1639	1+	3					2	1611	C2.5	10375
06	1741	1746	1833	2	3					3	1738	C2.5	10378
07	0958	1010	1048	1	1		1				0939	C2.3	10375
07	1100	1110	1200	2+	1					1	1105	C1.8	10375
08	0456	0506	0531	1	3		1			2	0457	C5.7	10375
08	0607	0611	0635	1+	3					2	0606	C3.5	10375
08	0656	0700	0717	1	1					1	0652	C2.3	10375
08	0743	0746	0802	1	1					1	0741	C2.2	10375
08	0859	0907	1011	1	1		1				No flare		
08	1140	1151	1220	3	5	1	1	1		9	1137	C7.5	10380
08	1608	1615	1631	3	5	1	2	1		9	1605	M4.0	10380
09	0900	0908	0930	1+	1					1	0857	C3.3	10375
09	1123	1126	1159	3	5	1	2	1		9	1121	M4.7	10375
09	1439	1446	1508	1+	1					2	1433	C5.3	10375
09	1627	1633	1702	2-	1					2	1625	C5.9	10375
09	1929	1938	2010	2	1					1	1927	C5.0	10380
09	2056	2100	2119	1	3					4	2053	C7.1	10375
09	2112	2115	2135D	1	1					1	2108	C4.8	10375
09	2132	2138	2220	2-	3					4	2131	X1.7	10375
10	0835	0838	0905	2+	5	1	2	1		6	0834	M2.7	10375
10	1055	1105	1128	3-	5	1	2	1		8	1055	M5.1	10375
10	1157	1204	1232	2-	1					2	No flare		
10	1246	1251	1341	2+	5	1	1	1		9	1244	M2.2	10375
10	1408	1436	1459	2+	5		1	1		6	1408	M2.2	10375
10	1520	1539	1603	2	1					1	1527		10380
10	1629	1630	1703	2	5	1	1	1		7	1628	M3.9	10375
10	1647	1656	1732	1+	1		1				1708		10375
10	1810	1817	1903	2	5		1			5	1808	M5.6	10375
10	1848	1855	2005	2	3					3	No flare		
10	2355	2401	2452	2+	1					1	2319	X1.3	10375

* = no flare patrol.

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Jun 03

JUNE 2003

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						SWF	SEA	SPA	LF- SPA	SES				
11	0446	0450	0530	2	1						1	0447	C8.1	10375
11	0545	0552	0640	2	3						2	No flare		
11	0829	0832	0859	2	5	1	1	1			4	0822	C8.3	10375
11	1032	1037	1041	2-	5	1	2	1			3	1028	M1.1	10375
11	1050	1120	1152	3-	5	1	1	1			3	1051	M1.4	10375
11	1312	1318	1340	2+	5	1	2	1			7	1309	M2.7	10375
11	1440	1456	1518	2-	5	1		1				1437	M3.7	10375
11	1517	1530	1600	2-	3						2	1517		10375
11	1619	1637	1707	2+	5	1	1	1			4	1621	M4.5	10375
11	1727	1744	1823	2	3						3	1727	M1.8	10380
11	1837	1841	1854	1-	1						1	1832		10375
11	1955	2002	2013	1-	1						1	2001	X1.6	10375
11	2002	2012	2130	3-	3						3	2001	X1.6	10375
11	2140	2153	2227	2-	3						3	2141	M2.9	10375
12	0105	0123	0231	3-	5						2	0104	M7.3	10375
12	0711	0713	0732	1	3						2	0710	C6.1	10375
12	0810	0813	0821	1-	3						4	0809	C7.2	10375
12	0826	0830	0859	2	5	1	2	1			4	0825	C8.4	10380
12	0855E	0900	0910	1-	1						1	0858		10375
12	1001	1006	1023	1	1						2	1000	C4.1	
12	1024	1027	1027U	2	5	1	2	1			5	1022	C8.1	10375
12	1138	1147	1159	2	5	1	1	1			7	1136	C7.1	
12	1401	1404	1435	3	5	1	2	1			12	1358	M1.0	10375
12	1706	1713	1754	2-	3						6	1706	M1.1	10375
12	2005	2013	2058	2	3						4	2005	C8.5	
12	2122	2127	2205	2	3						5	2122	M2.6	10375
12	2246	2252	2304	1	1						1	2244	C7.1	10375
13	0155	0205	0247	2+	5						3	0154	M3.1	
13	0433	0435	0515	2	1						1	0431	M1.7	10375
13	0631	0635	0730	3	5	1	1	1			3	0628	M1.8	10375
13	0631	0708	0805	1	1		1					0628	M1.8	10375
13	1438	1453	1554	3-	3						2	No flare		
13	1617	1624	1717	2+	3						3	1618	C4.4	
13	1732	1735	1839	2+	3						2	1730	C4.6	
13	2012	2030	2141	3-	3						4	2012	C8.7	
14	0529	0531	0717	2	5	1	2	1			2	0507	M1.5	
15	1221	1226	1307	2+	1						1	1222	C1.3	10375
15	1412	1438U	1534	1	1			1				1407	C3.3	
16	1157	1204	1230	3-	5	1	2	1			5	1152	M1.7	10386
16	1650	1659	1724	1	1			1				No flare		
17	2144	2153	2215	1+	1						2	2144	C5.2	10386
17	2237	2251	2335	2+	3						4	2227	M6.8	10386
18	0954	1021U	1039	2	1			1				*		
18	1726	1734U	1816	1	1			1				1711		10387
19	1529	1541U	1606	1	1			1				*		
20	0512	0526	0604	2	1			1				0453	C1.2	10386
21	1310	1313	1355	1+	5						4	1307	C2.5	10388
24	0406	0418	0454	1	1			1				0450	C1.5	10391
24	0500	0510	0531	1	1			1				0450	C1.5	10391
24	0646	0718U	0746	1	1			1				No flare		
24	0900	0910U	0933	1	1			1				0920	C1.3	10391
24	0923	0933	0955	1+	1							0920	C1.3	10391
24	1018	1028	1118	2	5	1	1	1			2	1017	C2.8	10391
24	1454	1528U	1555	1	1			1				No flare		
25	0701	0730	0812	2	5	1			1			No flare		
25	1527	1555	1707	2+	3						4	1515	C3.7	

* = no flare patrol.

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						SWF	SEA	SPA	LF- SPA	SES			
26	1107	1121	1216	2-	1		1			1	1104	C1.4	
26	1205	1207	1229	1-	1					1	1104	C1.4	
27	1632	1638	1649	1	1		1				No flare		
27	1651	1657	1705	1	1		1				No flare		
27	1713	1723U	1744	1	1		1				1729	C1.5	
28	0526	0542	0624	1	1		1				No flare		
28	0653	0656	0719	1	3					2	0651	C4.3	
28	1530	1557	1655	1	1		1				1524	C3.0	
29	1050	1108	1153	2+	5	1		1		2	1055	C3.9	
30	0735	0739	0824	2	5	1	2	1		3	0731	C5.2	10397

* = no flare patrol.

OBSERVATORIES REPORTING FOR JUNE 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	Upice, Czech Republic	SEA
Isola del Gran Sasso, Italy	SES	Villiersdorp, South Africa	SES
Marlborough, Massachusetts, USA	SES		

Observations are not necessarily continuous.