

**SUDDEN IONOSPHERIC DISTURBANCES
JULY 2005**

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Jul 05

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	0457	0503	0541	2	1					1	0457	C5.3	10786
01	0537	0557	0642	3	1			1			No flare		
01	0702	0712	0757	1	1			1			0718	B3.4	10783
01	0724	0730	0740	1-	1					1	0718	B3.4	10783
01	1210	1231	1247	1	1			1			No flare		
01	1253	1411U	1433	1	1			1			1248	C1.2	10782
01	1438	1455	1505	1	1			1			1436	B5.7	
01	1619	1629	1655	1	1			1			*		
01	1703	1708	1737	1	1			1			*		
02	0310	0318	0343	2	1					1	0308	C3.5	10785
02	0630	0635	0645	2	5	1	1	1		2	0624	C2.7	10785
02	0923	0933	0951	1	3			1		3	0919	C2.0	10785
02	1232	1238	1313	2-	5					5	1235	C2.8	10785
02	1610	1611	1625	1-	1					1	1609	C1.2	10786
02	1857	1903	1922	1	3					2	1858	C1.3	10785
03	0448	0458	0546	2+	1					1	0445	C4.7	10787
03	0451	0522U	0555	1	1			1			0445	C4.7	10787
03	0854	0914	1024	3	1					1	0849	C1.6	10782
03	2105	2110	2133	1+	1					1	2102	C1.2	10787
04	1601	1618	1707	1	1			1			1554	B8.9	10782
04	2031	2038	2104	2	1					1	2028	C1.0	10782
05	0958	1002	1023	1	1					1	0954	C1.2	10787
06	0620	0627	0635	1-	1					1	0619	B6.8	10783
06	0814	0821	0829	1-	1					1	0814	B6.9	10786
06	0845	0850	0913	1	3					2	0843	C2.5	10786
06	1302	1307	1330	1	5					3	1258	C1.4	10786
06	1605	1607	1618	1-	5					2	1601	C1.4	10786
06	1743	1750	1826	2-	3					2	1743	C5.9	10786
06	1842	1847	1904	1	1					1	1841	C1.4	10786
07	0800	0802	0814	1-	1					1	0756	C1.6	10786
07	1219	1227	1255	2-	5					5	1218	C2.6	10789
07	1241	1246	1309	1+	3					2	1218	C2.6	10789
07	1325	1331	1401	2-	5					6	1325	C3.8	10786
07	1509	1520	1553	2	5					5	1437	C2.7	10789
07	1611	1628	1655	3	5	1	1	1		6	1607	M4.9	10786
08	0516	0523	0554	2	1					1	0502	C1.9	10783
08	1556	1621	1709	2+	5					3	1540	C1.6	10786
09	1012	1028	1110	2	3					2	0924	C2.1	10786
09	1327	1336	1353	1+	1					1	1339	B4.2	10789
09	1637	1703	1755	3-	1					1	*		
09	2027	2044	2124	2+	1					1	2023	C1.5	10789
09	2146	2204	2312	3-	3					6	2147	M2.8	10786
10	1512	1519	1532	2-	5	1	1	1		9	1508	C9.9	10783
10	2142	2143	2203	1	1					1	2139	C1.4	
11	1457	1538	1624	3	5	1	1	1		4	1456	C8.4	10786
11	1627	1643U	1706	1	1			1			No flare		
11	1715	1737	1759	2	1					1	1712	C3.3	10786
11	1739	1757	1819	1	1			1			No flare		
11	2254	2256	2317	1	1					1	2250	C1.4	10786
12	0203	0209	0248	2	1					1	0147	C4.2	10786
12	0657	0702	0729	1+	3					2	0652	C3.0	10786
12	0800	0805	0829	3-	5	1		1		3	0757	C8.3	10786
12	1000	1004	1023	1	3					2	0957	C2.3	10786
12	1118	1125	1157	2-	5					6	1116	C3.1	10786
12	1210	1214	1232	1	3					2	1209	C1.5	10786
12	1254	1310	1344	3	5	1		1		7	1247	M1.0	10786

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						SWF	SEA	SPA	LF-SPA	SES			
12	1544	1552	1601	1	5		1			1	1547	M1.5	10786
12	1554	1601	1615	2	5	1	1	1		5	1547	M1.5	10786
12	2132	2141	2232	2+	3					2	2129	C4.2	10786
12	2238	2247	2334	2+	3					3	2235	M1.3	10786
12	2331	2335	2359	1+	1					1	2324	C4.0	10786
13	0545	0558	0632	2+	1					1	0544		10786
13	0636	0641	0652	1-	3					2	0635	C4.7	10786
13	0737	0741	0756	1	1					1	0736	C2.1	10786
13	0816	0824	0846	2-	3					3	0814	C2.7	10786
13	0858	0906	0937	2	5	1		1		4	0854	C3.9	10786
13	1006	1015	1032	1+	3					3	1005	C1.6	10786
13	1215	1219	1258	3-	5	1		1		10	1203	M3.2	10786
13	1404	1418	1523	3	5	1		1		10	1401	M5.0	10786
13	1800	1813	1900	2+	1					1	No flare		
13	1901	1910	1954	2	3					5	1902	M1.2	10786
13	2151	2155	2225	1+	3					5	2149	M1.2	10786
14	0720	0727	0802	3	5	1		1		4	0725E	M9.1	10786
14	1018	1031	1308	3	5	1		1		7	1016	X1.2	10786
14	1629	1635	1659	1+	5					6	1629	C7.3	10786
14	1706	1720	1752	2-	5		1			7	1716	M1.3	10786
14	2252	2258	2334	2-	3					4	2250	M1.1	10786
15	1140	1146	1204	1	5					4	1139	C4.0	10790
15	1931	1955	2019	2	3					2	1930	C1.8	10790
15	2318E	2324	2405	2+	1					1	2325E	C7.3	
16	0332	0341	0428	2+	5					2	0327	M1.0	10790
16	0629	0636	0706	2	1					1	0625	C1.8	10790
16	0709	0717	0743	2-	3					2	0707	C2.2	10790
16	1114	1123	1301	2	5	1		1		6	1107	C4.8	10790
17	0628	0632	0720	2+	1					1	0614	C4.3	10790
17	1647	1710	1733	2	1					1	1715	B1.2	
27	0442	0505	0637	2+	3		1			1	0433	M3.7	10792
28	0001	0026	0113	2+	1					1	0001	M1.0	10792
28	0621	0630	0700	2	1					1	0613	C2.8	10792
28	1021	1034	1045	1	1					1	1021	B9.2	10792
28	1410	1420	1433	1	1					1	1404	B5.3	10792
28	2145	2157	2259	2+	3					6	2139	M4.8	10792
29	1725	1732	1803	2-	3					7	1723	C3.4	10792
30	0513	0520	0544	1+	5					3	0503	C9.4	10792
30	0621	0630	0717	3	5	1		1		6	0617	X1.3	10792
30	1645	1656	1728	2	5			1		9	1639	C8.9	10792
31	0835	0843	0847	1-	1					1	0838	B9.5	10792
31	0920	0927	0944	2+	5		1	1		6	0909	C7.0	10791
31	1218	1225	1241	3	5	1	1	1		10	1215	M1.1	10792

* = no flare patrol.

OBSERVATORIES REPORTING FOR JULY 2005

Alberta, Canada	SES	Palo Alto, California, USA	SES
Athens, Greece	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Bedford, Massachusetts, USA	SES	Perth, Australia	SES
Brookline, Massachusetts, USA	SES	Sussex, United Kingdom	SES
Calcutta, India	SES	Torrington, Connecticut, USA	SES
Edenvale, Rep of S. Africa	SES	Tucson, Arizona, 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.