

**SUDDEN IONOSPHERIC DISTURBANCES  
SEPTEMBER 2005**

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Sep 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			
02	1705	1717	1808	1	1		1				No flare		
04	1431	1456	1512	2	1					1	1408	C2.0	10803
05	0912	1001	1109	3	1					1	0853	C2.7	
05	0951	1017	1151	3-	5					3	0853	C2.7	
05	1450E	1607U	1722	1	1		1				No flare		
07	0958	1004	1036	1+	5					3	0959	C2.3	
07	1114	1123	1143	1+	5					2	1119	C2.4	
07	1237	1245	1318	2+	5	1		1		8	1234	C9.6	
07	1422	1427	1444	1	3					3	1423	C1.7	
07	1527	1531	1602	2-	5					5	*		
07	1721	1735	2004	3-	5		1			6	1717	X17.0	10808
08	0844	0850	0907	1	5					2	No flare		
08	1112	1119	1211	2	5	1		1		5	1058	C2.9	10808
08	1211	1232	1254	2	5					3	No flare		
08	1256	1302	1318	1	5					2	1255	C2.0	10808
08	1432	1439	1501	1	5					7	1433	C4.0	10808
08	1451	1457	1508	1-	3					3	1449	C1.9	10808
08	1602	1608	1635	1+	5					7	1601	C4.2	10808
08	1654	1701	1732	2-	5		1			7	1649	M2.1	10808
08	1742	1751	1806	1	3					2	No flare		
08	2024	2030	2052	1	3					4	2023	M2.1	10808
08	2052	2106	2206	2+	3					4	2052	X5.4	10808
09	0210	0220	0310	2+	1					1	0208	M1.0	10808
09	0230	0300	0350	2+	1					1	0233	M1.1	10808
09	0438	0457	0525	2+	1					1	0446	M1.8	10808
09	0524	0548	0639	2+	5					5	0532	M6.2	10808
09	0827	0831	0850	1	5					5	0822	C3.7	10808
09	0921	0926	0936	1-	5					4	0926	C4.8	10808
09	0943	0958	1121	3	5	1		1		6	0942	X3.6	10808
09	1236	1248	1324	2-	5					6	1233	C3.0	10808
09	1532	1537	1557	1	5					7	1537	C2.8	10808
09	1701	1712	1737	1	1			1			No flare		
09	1736	1748	1839	2	3					5	1732	M1.9	10808
09	1910	1939	2059	2+	5		1			5	1913	X6.2	10808
10	0433	0441	0515	2	3					2	0432		10808
10	0604	0614	0630	2	5	1		1		3	0606	M3.7	10808
10	0641	0651	0716	2-	5					2	0606	M3.7	10808
10	0825	0842	0842D	3-	5	1		1		2	0745		10808
10	0900	0906	0906D	2+	5	1		1		3	0859	M1.9	10808
10	1026	1032	1032D	3-	5	1		1		3	1024	C7.6	10808
10	1157	1202	1242	2	1			1			No flare		
10	1544	1552	1621	2-	5					7	1544	C7.1	10808
10	1637	1645	1703	3-	5	1	1	1		7	1634	X1.1	10808
10	1707	1727	1753	1	1			1			No flare		
10	1739	1745	1819D	2	1					1	No flare		
10	1750	1802	1835	2	1					1	1758E		10808
10	1906	1924	2009	2	3					2	1910	M4.1	10808
10	1915	1929	2015	2-	3					3	1910	M4.1	10808
10	2058	2108	2129	1+	3					2	No flare		
10	2130	2156	2253	3-	3					2	2130	X2.1	10808
11	0230	0234	0300	1+	1					1	0229	M3.4	10808
11	0610	0620	0646	2-	5					4	0609	C7.1	10808
11	0707	0714	0733	1	5					3	0706	C4.4	10808
11	1023	1033	1108	2-	3					2	No flare		
11	1243	1305	1425	3	5	1		1		6	1244	M3.0	10808
11	1314	1316	1320	1-	1					1	No flare		
11	1404E	1427U	1537	1	1			1			1335E		10808
11	1639	1645	1738	2+	3					2	1646		10808
11	2031	2042	2130	2	3					3	2029	M1.3	

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						SWF	SEA	SPA	LF-SPA	SES			
12	0654	0704	0732	2-	5		1			2	0656	M1.3	10808
12	0842	0851	0935	3	5	1	1	1		7	0837	M6.1	10808
12	1350	1402	1424	1	1		1				1349	B9.9	
12	1431	1510	1557	1	1		1				*		
12	1534	1538	1546	1-	1					1	1533	C1.1	
12	2006	2009	2025	1-	3					2	2005	M1.5	10808
12	2215	2217	2251	2	1					1	2207	C7.2	
13	0440	0445	0517	2	3					2	0437	C5.1	10808
13	0826	0830	0851	1	3					2	0824	C1.8	10808
13	1045	1055	1055D	2	5			1		3	1041	M1.3	
13	1103	1118	1153	2-	3		1			1	1041	M1.3	
13	1120	1125	1217	2+	5		1	1		2	1041	M1.3	
13	1246	1316	1316	1	1		1				No flare		
13	1314	1335	1458	3-	3		1			1	1311	C4.5	10808
13	1328	1401	1444	2+	1					1	1311	C4.5	10808
13	1926	1930	2015	2-	3					4	1919	X1.5	10808
13	2314E	2319	2333D	1	1					1	2315	X1.7	10808
13	2333E	2336	2416	2	1					1	2315	X1.7	10808
14	0416	0421	0439	1	3					2	0414	C3.8	10808
14	0632	0637	0658D	1+	1					1	0633		10808
14	0656	0704	0737	2	5					3	0656	C5.2	10808
14	0808	0813	0845	2-	3					2	No flare		
14	0858	0913	0942	2	5					3	0859	C2.2	
14	1030	1039	1152	3	5	1	1	1		6	1005	M4.6	
14	1250	1258	1331	2-	5					5	1247	C3.4	
14	1316	1330	1419	1	1		1				No flare		
14	1851	1907	1921D	1+	1					1	1910	B6.9	
14	1921	1927	1943	1	3					2	1922	C4.4	10808
14	2317	2322	2342	1+	1					1	2247	C5.8	10808
15	0110	0120	0153	2	1					1	0051	C8.5	10808
15	0208	0213	0225	1-	1					1	0152	M1.3	
15	0500	0501	0514	1-	1					1	0457	C2.6	10808
15	0650	0656	0701	1-	1					1	0644	C1.8	10808
15	0835	0841	0841D	3	5	1	1	1		6	0830	X1.1	10808
15	0921	0929	1005	2	5	1		1			0830	X1.1	10808
15	1036	1042	1053	1-	5					2	1037	C1.0	
15	1433	1438	1443	1-	1					1	1433	C1.0	10808
15	1446	1454	1501	1-	5					2	1444	C7.1	10808
15	1458	1521	1547	1+	5		1			2	1444	C7.1	10808
15	1534	1536	1545	1-	1					1	1532	C5.2	
15	1625	1643	1655	1	5		1			3	1628	C4.8	10808
15	1857	1904	1945	2	3					2	1855	M1.0	10808
15	2201	2204	2212	1-	1					1	2156	C3.8	
16	0142	0150	0227	2-	5					2	0141	M4.4	10808
16	0522	0524	0531	1-	1					1	0520	C1.1	10808
16	0852	0859	0920	1+	5					2	0852	C1.2	10808
16	1124	1134U	1220	1	1		1				1105	B8.1	
16	1309	1314	1324	1-	1					1	1308	C1.5	
16	1437	1449	1505	1	5		1			5	1436	C6.1	10808
16	1510	1522	1548	1+	5		1			5	1509	C7.9	10808
16	1616	1628	1704	1	1		1				No flare		
16	1737	1748	1839	2+	3					3	1735	M1.3	10808
16	1927	1935	2021	2	3					3	1918	M3.5	10808
17	0437	0442	0504	1+	1					1	0432	C3.3	10808
17	0603	0609	0722	3-	5	1	1	1		4	0558	M9.8	10808
17	0935	0941	0954	1-	5					2	0934	C1.5	
17	1033	1038	1056	1	5					2	1033	C2.5	
17	1500	1505	1515	1-	5					2	1458	C1.5	

\* = no flare patrol.

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Sep 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			
18	0429	0436	0452	1	1					1	0424	C3.7	
18	0457	0503	0533	2	1					1	0454	C1.8	
18	1211	1216	1225	1-	1					1	1207	C1.1	
18	1605	1621	1641	1	1		1				No flare		
21	0842	0902	0937	1	1		1				0853	B9.5	
22	0920	0947	1018	2	1		1				No flare		
23	0554	0600	0629	2	1					1	0548	C1.5	10810
25	1641	1653	1735	1	1		1				No flare		

\* = no flare patrol.

**OBSERVATORIES REPORTING FOR SEPTEMBER 2005**

Athens, Georgia, USA	SES	Nerja, Spain	SES
Bedford, Massachusetts, USA	SES	Palo Alto, California, USA	SES
Brookline, Massachusetts, USA	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Edenvale, Rep of S. Africa	SES	Perth, Australia	SES
Isola del Gran Sasso, Italy	SES	Tucson, Arizona, USA	SES
Marlborough, Massachusetts, USA	SES	Upice, Czech Republic	SEA
Milan, Italy	SES	Villiersdorp, South Africa	SES

Observations are not necessarily continuous.