

**SUDDEN IONOSPHERIC DISTURBANCES  
JANUARY 2005**

81  
Jan 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	0008	0014	0027D	1	1					1	0001	X1.7	10715
01	0027E	0030	0124	2+	1					1	0001	X1.7	10715
01	0919	0948	1040	1	1		1				0927	B7.8	10715
01	1421	1424	1427	1-	1					1	1408	C1.2	10715
01	1816	1836	1950	3-	3					2	1844		10717
02	1553	1618	1814	3+	3					4	1601	B5.2	10717
03	0406	0428	0523	2+	1					1	0402	C3.8	10715
03	0934	0935	0938	1-	1					1	0931	C1.1	10717
03	1104	1110	1113	1-	1					1	1058	C1.1	10717
04	0609	0617	0701	2+	3					2	0559	C3.3	10715
04	1058	1111	1146	2-	3		1			5	1053	C7.3	10715
05	1621	1637	1715	2+	3					4	*		
07	1005	1007	1026	1	1		1				No flare		
08	0910	0952	1000	1	1		1				No flare		
08	1045	1111	1129	1	1		1				1049	B1.3	
08	1231	1235	1317	1	1		1				No flare		
09	0834	0848	0932	2-	5					6	0825	M2.4	10719
09	1439	1444	1504	1+	5					3	1433	C2.6	10719
10	0755	0758	0815	2	1		1				No flare		
11	1125	1130	1200	1	1					1	1134	B1.1	
12	0705	0708	0730	1+	1					1	0701	B7.0	10720
12	1552	1607	1649	2+	3					2	1608	B2.8	10720
13	0756	0809	0830	2	1					1	0808	C1.0	10718
13	0813	0824	0856	2	1		1				0808	C1.0	10718
13	1037	1114	1123	2-	3					2	1119	C1.6	10718
13	1122	1131	1139	1-	1					1	1119	C1.6	10718
13	1406	1410	1428	1-	5		1			3	1403	C2.3	
13	1631	1636	1658	1	5					6	1624	C3.3	10718
13	1708	1713	1744	2-	5					7	1704	C4.2	10718
13	1901	1905	1922	1-	3					2	1850	C2.5	10718
13	2247	2253	2329	2	1					1	2236	C6.8	10718
14	0746	0751	0752	1-	1					1	No flare		
14	0833	0838	0843	1-	1					1	0821	C1.4	10720
14	0851	0901	0943	2	1		1				0854	C1.8	10720
14	1012	1018	1018U	2	5	1	1	1		4	1008	C8.9	10720
14	1134	1145	1155	1	5					2	1134	C2.3	10718
14	1216	1233	1254	1+	5		1			3	1233	C4.6	10718
14	1349	1403	1437	2-	3		1			3	1353	M1.8	10720
14	1559	1607	1608	1-	1					1	1602	M1.0	10718
14	1741	1744	1755D	1-	1					1	1735	C2.8	10720
14	1755E	1800	1823D	1+	1					1	1753	M1.5	10720
14	1830	1836	1853	1-	1					1	1836	C7.7	10720
14	1909	1912	1931	1	1					2	1907	C3.3	10720
14	2109	2113	2137	1+	1					1	2108	M1.9	10720
14	2116	2123	2155	2	5					2	2108	M1.9	10720
14	2200	2204	2217	1-	5					2	2159	C9.6	10720
14	2225E	2227	2239	1-	1					1	2223	C3.0	10720
14	2253	2256	2324	1-	1					1	2250	C6.0	10720
14	2328	2334	2415	2+	1					1	2323	C5.6	10720
15	0033	0037	0109	1+	1					1	0022	X1.2	10720
15	0337	0341	0405	1+	1					1	0316	C4.2	10720
15	0418	0423	0437	1-	3					2	0409	M1.3	10720
15	0430E	0435	0500	1+	1					2	0426	M8.4	10720
15	0544	0612	0836	3+	3					2	0554	M8.6	10720

\* = no flare patrol.

SUDDEN IONOSPHERIC DISTURBANCES  
JANUARY 2005

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				
15	0612	0638	0751	2	5						2	0554	M8.6	10720
15	0916	0939	1031	2+	3			1			2	0914		10720
15	1140	1146	1204	1	5			1			6	1141	M1.2	10720
15	1226	1234	1255	1	5			1			4	1227	C7.4	10720
15	1350	1356	1412	1	5			1			7	1352	C5.5	10720
15	1415	1430	1554	3	1			1			9	1408	M3.2	10718
15	1456	1504	1517	1	1						1	1441		10720
15	1521	1523	1528	1-	1						1	1441		10720
15	1601	1613	1623	1	1						1	1607		10720
15	1656	1701	1720	1	5						8	1650	C8.0	10720
15	1759	1819	1838	2-	3						2	1757	C2.9	10720
15	1849	1855	1922	1+	3						5	1842	C8.8	10720
15	1947	1949	2001	1-	3						2	1944	C3.5	10720
15	2000	2010	2022	1	3						2	2008	C5.4	10720
15	2011E	2023	2056	2	1						1	2008	C5.4	10720
15	2102	2106	2118	1-	1						1	2057		10720
15	2154	2209	2220	1+	5						2	2201	M1.0	10720
15	2225E	2231	2239D	1-	1						1	2225	X2.6	10720
15	2239E	2250	2540	3+	1						1	2225	X2.6	10720
16	0148	0211	0301	2+	1						1	*		
16	0755	0757	0813	1	3						2	0754	C4.4	10720
16	1000	1010	1027	1-	5			1			4	1005	C4.0	10720
16	1145	1151	1203	1-	5						2	1147	C2.8	
16	1234	1242	1307	1	1			1				*		
16	1315	1326	1352	1	1			1				No flare		
16	1402	1410U	1451	1	1			1				*		
16	1446	1451	1456	1-	1						1	1437	C2.9	10720
16	1508	1516	1538	1+	5			1			6	1506	C5.9	10720
16	1535	1538	1549	1-	5						3	1506	C5.9	10720
16	1638	1640	1704	1+	1						1	1651		10720
16	1716	1721	1740	1	3						3	No flare		
16	1758	1806	1817	1-	3						3	1758	C2.0	10720
16	1827	1831	1843	1-	3						7	1825	C3.7	10720
16	2159	2201	2307	2+	1						1	2155	M2.4	10720
17	0243	0246	0303	1	1						1	0244	C3.9	10720
17	0914	1000U	1053	3	5		1	1			4	0906E	X3.8	10720
17	1632	1639	1725	2	3						3	No flare		
17	1949	1954	2016	1+	1						2	1946		10720
17	2017E	2023	2042D	1	1						1	2014		10720
17	2042E	2047	2108	1+	1						1	2052		10720
17	2222	2225	2240	1-	1						1	No flare		
17	2242	2244	2254	1-	1						1	No flare		
18	0039	0043	0111	1+	1						1	0037	C6.0	10720
18	0211	0213	0223	1-	1						1	0206	C3.2	10720
18	0607	0618	0649	2	1						1	0552	C6.1	10720
18	0646	0648	0710	1	1						1	No flare		
18	0727	0805	0930	2	1			1				0747	C2.4	10720
18	1125	1127	1158	3-	5		1	1	1		6	1123	M1.6	10720
18	1253	1304U	1456	1	1			1				No flare		
18	1501	1537	1547	2+	1						1	1538	M4.6	10720
18	1541	1550	1646	2	5			2			9	1538	M4.6	10720
18	1852	1859	1915	1	3						3	1856	C4.2	10720
19	0516	0526	0551	2	3						2	0510	C7.2	10720
19	0726	0732	0837	2+	3			1			1	0726		10720
19	0810	0814U	0859	1	5		1	1			4	0803	X1.3	10720
19	1021	1024	1038	2	5		1	1	1		5	1019	M2.7	10720
19	1232	1256U	1323	1	1			1				*		
19	1323	1336	1409	2-	5			1			4	*		
19	1531	1541	1611	2-	5			1			10	1532	M1.6	10720
19	1540	1600	1615	2	1						1	1532	M1.6	10720
19	2323	2327	2344	1	1						1	2318	C5.3	10723
20	0325	0333	0400	2	1						1	0321	C4.8	10720
20	0605	0622U	0641	1	1			1				*		

\* = no flare patrol.

**SUDDEN IONOSPHERIC DISTURBANCES  
JANUARY 2005**

83  
Jan 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			
20	0634	0646	0817	3	1					1	0636	X7.1	10720
20	0641	0659	0733	2	5		1			4	0636	X7.1	10720
20	0907	0926	0953	1	1		1				0855		10720
20	1609	1614	1655	2-	5					5	1608	C8.0	10720
20	1635	1638	1707	1+	1					1	1612		10720
20	1806	1818	1836	1+	1					1	1813	C3.6	10720
20	2151	2155	2218	1+	1					1	2147	C4.5	10720
21	0022	0026	0038	1-	1					1	0019	C5.8	10720
21	0421	0429	0511	2+	1					1	0417	C6.3	10720
21	0610	0621	0655	1	1		1				0630	C1.6	10720
21	0638	0641	0657	1	1					1	0641	C1.8	10720
21	1014	1016	1140	3-	5		1	1		7	1010	M1.7	10720
21	1350	1401	1426	3-	5		2	1		6	1347	M1.2	10719
21	1406	1409	1422	1-	1					1	1347	M1.2	10719
22	0258	0259	0307	1-	1					1	No flare		
22	0425	0432	0501	2	1					1	0414	C3.1	10719
22	0702	0740	0849	2	1		1				0715	B5.1	10720
22	1042	1049	1126	1	1		1				*		
22	1128	1140	1234	1	1		1				1203	B7.3	10720
22	1234	1241	1243	1-	1					1	1235	C1.3	10720
22	2053	2056	2111D	1-	1					1	2050	C1.6	
22	2111E	2116	2142	1+	1					1	2108	C1.9	10720
23	0138	0151	0225	2+	1					1	0128	M1.0	10720
23	0445	0503	0551	2+	1					1	0443	C4.5	10720
23	1432	1442	1510	1	1		1				No flare		
24	1526	1535U	1550	1	1		1				1538	B4.6	10724
25	1158	1205	1300	1	1		1				1211	B2.4	10725
26	1439	1449	1521	1	1		1				*		
27	0903	0957U	1032	1	1		1				No flare		
27	1140	1212U	1302	1	1		1				No flare		
27	1311	1327U	1426	1	1		1				*		
29	0805	0822	0844	1	1		1				No flare		
29	0851	0904U	1042	1	1		1				No flare		
29	1235	1236	1238	1-	1					1	1223	B4.9	10727
29	1512	1522	1541	1+	5					2	1518	B1.8	10727
31	0832	0853	0915	1	1		1				0907	B3.3	10729
31	1047	1052	1058	1-	1					1	1046	C1.3	10729
31	1410	1418	1457	1	1		1				1413	B2.6	

\* = no flare patrol.

OBSERVATORIES REPORTING FOR JANUARY 2005

Alberta, Canada	SES	Milan, Italy	SES
Amherst, New Hampshire, USA	SES	Palo Alto, California, USA	SES
Athens, Greece	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Bedford, Massachusetts, USA	SES	Perth, Australia	SES
Bern, Switzerland	SES	Sussex, United Kingdom	SES
Brookline, Massachusetts, USA	SES	Torrington, Connecticut, USA	SES
Cambridge, England, UK	SES	Tucson, Arizona, USA	SES
Edenvale, Rep of S. Africa	SES	Udine City, Italy	SES
Isola del Gran Sasso, Italy	SES	Upice, Czech Republic	SEA
Marlborough, Massachusetts, USA	SES	Villiersdorp, South Africa	SES

Observations are not necessarily continuous.