

SUDDEN IONOSPHERIC DISTURBANCES

OCTOBER 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	0446	0457	0535	2	3					2	0444	M1.4	10464
01	0912	0916	0946	2	1					1	0909	C1.2	
01	1749	1800	1856	2+	1					1	1746	C1.6	10464
02	0353	0359	0418	1	3					2	0351	C2.4	10464
02	0426	0429	0438	1-	1					1	0423	B9.0	10464
02	0604	0606	0626	1	1					1	0600	B8.6	
02	0650	0656	0747	2	5					3	0649	C7.8	10464
02	1005	1018	1036	1	1		1				*		
02	1342	1412	1447	1	1		1				1346	C4.2	
02	1605	1617	1739	2+	1					1	1602	C4.2	10471
03	0335	0341	0357	1	1					1	0333	C2.0	10471
03	0612	0621	0641	1	1					1	0610	C1.0	
03	0642	0644	0658	1-	3					2	0640	C1.4	
03	0756	0800	0818	1	3					2	0753	C1.7	10471
03	1158	1221	1311	2+	1					1	1119	C2.1	
04	0457	0506	0529	1	1					1	0454	C1.7	
04	1312	1319	1405	2	5	1	1	1		6	1309	C2.5	
04	1509	1528	1545D	2	1					1	1515	C1.7	10471
04	1544	1549	1621	1+	5					4	1542	M1.0	10471
04	1756	1800	1815	1	1					2	1753	C1.6	10471
04	1824E	1828	1854	1+	1					1	1822	C1.3	10471
04	1909	1916	2010	2+	1					1	1908	C1.7	
04	2008	2015	2052	2	1					1	No flare		
05	0916	0923	0951	1	5		1			7	0916	C2.6	
05	1240	1245	1250	1-	1					1	1234	B5.2	10471
05	1319	1325	1333	2-	5	1	1	1		4	1319	C4.2	
05	1651	1659	1735	2	1					1	1648	B8.7	10471
06	0716	0736	0806D	2	1		1				No flare		
06	0806	0818	0902	2	1		1				No flare		
06	0910	0933	1002	3	1		1				No flare		
06	1040	1051	1121	1	1		1				No flare		
07	1738D	1743D	1757U	1	1					1	1734	C1.8	10471
08	1003	1014	1034D	1	1		1				*		
08	1034	1041	1109	2	1		1				*		
08	1125	1147	1159	1	1		1				*		
08	1746	1757	1817D	1+	1					1	1743	B6.1	10471
09	0849	0857	0927	1	1		1				0845	B4.1	
09	1041	1121U	1204	1	1		1				No flare		
10	2003	2009	2020	1-	1					1	2002	B7.6	
11	0514	0542	0754	2+	1					1	No flare		
13	0916	0924U	0957	2	1		1				*		
13	1018	1025	1128	1	1		1				*		
14	0927	0934	0957	1	1		1				No flare		
16	0730	0739	0811	1	1		1				0735	B7.8	
16	1426	1455	1514	2	1		1				No flare		
16	1731	1802	1900D	3	1					1	1739	B3.4	
18	0536	0544	0552	1-	3					2	0531	C2.0	10484
18	0853	0900	0938	1+	3		1			5	0849	C3.3	10484
18	0926	0951	1130	3	1		1				*		
18	1450	1520	1530	2+	1					1	1448	C3.3	10484
18	1637	1654	1700	1+	1					2	1628	C4.9	10484
18	1708D	1712D	1727U	1	1					1	1706	C2.6	10484
18	1840D	1854D	1932D	2+	1					1	1836	C3.0	10484
18	1941	1954	2037	2	1					1	No flare		

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						SWF	SEA	SPA	LF-SPA	SES			
18	2027D	2040D	2126D	2+	1					1	2026	C3.3	10484
18	2130	2137	2230	2+	1					1	2125	C2.3	10484
18	2215D	2219D	2249D	2	1					1	2214	C6.5	10484
18	2315	2317	2400	2	1					1	No flare		
19	0614	0624	0730	2+	5					3	0608	M1.9	10484
19	1208	1248	1303	1	1		1				*		
19	1630	1648	1746	2+	5					4	1629	X1.1	10484
19	1831E	1855U	2046	3+	1					1	1857		10484
19	1923D	1929D	2021D	2+	1					1	1921	M1.0	10484
19	2023	2027	2115	2+	1					1	2021		10484
19	2245D	2249D	2326D	2	1					1	2245	C3.8	10484
20	0702	0718	0831	2+	5		1			2	0645	M1.9	10484
20	1235	1305	1340	2+	1					1	*		
20	1445	1450	1455	1-	1					1	1445	C3.3	10484
20	1532	1557	1624D	2+	1					1	1551	C3.2	10484
20	1647E	1704	1740	2+	1					1	1649		10484
20	1819	1825	1839	1	1					2	1821	C2.4	10484
20	1954	2003	2028	2-	1					2	1955	C5.9	10484
20	2030	2041	2120	2	1					2	2030	C4.5	10484
20	2058	2101	2130	2-	1					1	2030	C4.5	10484
20	2150	2157	2242	2	1					2	2200	C6.2	10484
20	2300	2303	2400	2+	1					1	2200	C6.2	10484
21	0331	0343	0416	2	3					2	0319	C7.9	10484
21	0446	0455	0527	2	3					2	0451	C6.0	10484
21	0822	0826	0912	1+	3		1			4	0821	M1.0	10484
21	0828	0833	0856	1+	1					1	0821	M1.0	10484
21	1915D	1921D	1921U	1-	1					1	1917	C3.3	
21	2307D	2321D	2356D	2+	1					1	No flare		
22	0328	0335	0408D	2	1					1	0328	M3.7	10486
22	0329	0355	0408	2	1					1	0328	M3.7	10486
22	0832	0844	0906	1+	5		1			4	0830	M1.7	10486
22	0938	0956	1019	2-	5					2	0937	M1.7	10486
22	1140	1145	1200	1	1					1	*		
22	1504	1510	1535	1+	5		1			5	1506	M1.4	10484
22	1545	1548	1615	1+	1					1	1557	M1.2	10484
22	1558	1603	1630	1+	5					4	1557	M1.2	10484
22	1655	1707	1726	1+	1					1	1701		10484
22	1805	1812	1841	2	1					1	1821		10484
22	1946	1958	2051	2	1					2	1947	M9.9	10486
22	2155	2206	2247	2	1					2	2156	M2.1	10486
23	0238	0242	0254	1-	1					1	0235	M2.4	10484
23	0705	0720	0720U	3	5			2	1	3	0702	M3.2	10484
23	0823	0836	1032	3	5	1	2	1		5	0819	X5.4	10486
23	1051	1055	1110	1	3	1	2			4	1049	M2.7	10484
23	1944E	2002U	2204	3+	1					1	1950	X1.1	10486
24	0220	0233	0339	2	1					1	0227	M7.6	10486
24	0505	0510	0541	2-	3					3	0504	M4.2	10486
24	0522	0523	0551	1	1					1	No flare		
24	0604	0608	0633	1+	3					3	0603	C7.5	
24	0744	0755	0819	2-	3					2	0747		10484
24	0831	0836	0851	1-	5					2	0837	C4.8	10484
24	0913	0920	0935	1	5					5	0915	C4.6	
24	0951	1000	1027	2-	5					5	0952	C5.7	
24	1034	1041	1050	2	5	1	1	1		6	1031	C9.1	
24	1539	1549	1624	1	1			1			1523	C8.9	10486
24	1844	1856	2000	3-	1					2	1842	M1.3	10486
24	2020	2027	2058	2-	1					2	2021	C5.3	10484
24	2123	2128	2200	2	1					1	2135	M1.0	10484
24	2133	2143	2209	2	1					2	2135	M1.0	10484
25	0205	0208	0232	1+	1					1	0202	C4.3	
25	0418	0438	0529	2+	1					1	0417	M1.2	10486

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						SWF	SEA	SPA	LF-SPA	SES			
25	0541	0553	0704	2+	1					1	0544	M1.7	10484
25	0714	0720	0727	1-	1					1	0711		10486
25	0812	0815	0827	1	1					1	No flare		
25	0946	0950	1004	1-	5					2	0938	C3.4	
25	1029	1044	1105	3	5	1	2	1		7	1026	M1.5	10484
25	1126E	1131	1145	1-	1					1	1124	C3.4	
25	1438	1452	1513	1	5		1			2	1438	C4.2	
25	1928D	1935D	2009D	2	1					1	1925	C3.2	
25	2034D	2044D	2114D	2	1					1	2033	C3.3	
25	2227D	2233D	2301D	2	1					1	2226	C7.9	
26	0454	0500	0510	1-	1					1	No flare		
26	0558	0607	0843	2	3					2	0557	X1.2	10486
26	0610	0615	0645	2-	1					1	0557	X1.2	10486
26	0724	0743	0918	1	1		1				No flare		
26	1334	1353	1418	1	1		1				No flare		
26	1420	1424	1443	1+	5		1			5	1415	M1.0	10484
26	1618	1626	1707D	2+	1					1	1618		10486
26	1708D	1733D	2027U	3+	1					1	1721	X1.2	10484
26	1825	1830	1915	2+	1					1	1721	X1.2	10484
26	2131	2141	2231	2+	1					2	2134	M7.6	10484
27	0133	0139	0156	1	1					1	0133	C6.2	10486
27	0244	0251	0308	1	1					1	0248		
27	0323	0349	0413	2	1					1	0339		10484
27	0417	0432	0517	2	1					1	0412	M1.2	10484
27	0615	0622	0641	1	1					1	0613	C9.0	10486
27	0751	0804	0851	2	3					2	0751	M2.7	10484
27	0822E	0825	0923D	2+	1					1	0751	M2.7	10484
27	0907	0917	1004	1+	5					2	0751	M2.7	10484
27	0922	0934	0959	3-	5	1	2	1		6	0921	M5.0	10486
27	1150	1157	1157U	2	1			1			No flare		
27	1214	1219	1219U	2+	5	1	2	1			No flare		
27	1228	1234	1305	3	5	1	2	1		7	1227	M6.7	10486
27	1400	1410	1420	1	1					1	1402	C5.1	10488
27	1455	1502	1530D	2	1					1	1453	C5.7	10488
27	1530E	1606	1618D	2+	1					1	No flare		
27	1618E	1626	1711D	2+	1					1	1611		10488
27	1832	1846	1934	2+	1					2	1834	C7.5	10486
27	1937	1941	2010	1+	3					2	1948	C9.0	10484
27	1951	2005	2053	2+	1					2	1948	C9.0	10484
27	2048	2059	2148	2+	1					1	No flare		
27	2147	2201	2257	2+	1					1	2146	M1.9	10488
27	2248	2253	0000	2+	1					1	No flare		
28	0130	0135	0229	2+	1					1	0127	C7.5	10486
28	0316	0325	0351	2	1					1	0317		10488
28	0401	0416	0442	2	1					1	0353		10488
28	0509	0512	0530	1	3					3	0507	C7.7	10484
28	0554	0558	0617	1	3					3	0553		10484
28	0600	0609	0627	1	1					1	0553		10484
28	0645	0647	0659	1-	3					3	0623		10488
28	0733	0734	0740	1-	1					1	0734		10489
28	0752	0801	0817	1	3					2	0752		10488
28	0817	0825	0838	1	3					2	0819		10486
28	0843	0846	0900	1-	3					2	0835	C8.7	10488
28	0941	0946	0954	1-	3					2	0951	X17.2	10486
28	0953	1018	1018U	3	5	1	1	1		6	0951	X17.2	10486
28	1100	1130	1253	3	5	1	2	1		4	0951	X17.2	10486
28	1540	1609	1630	2	1		1				1601E		10486
29	0145	0154	0218	2	1					1	0026	M1.1	10486
29	0315	0321	0332	1-	1					1	0319E		10486
29	0408	0414	0424	1-	3					3	0408	M3.5	10486
29	0423	0438	0455	1	1					1	0410	C6.2	
29	0432	0457	0642	3+	3					2	0437		10486
29	0710	0715	0734	1	1		1				No flare		
29	0747	0755	0755U	2+	5		2	1		2	No flare		

* = no flare patrol.

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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			
29	0930	0936	0951	2	3						3	No flare	
29	1334	1339	1406	2-	5		1				2	*	
29	1336	1412	1421	2	3	1					1	No flare	
29	1416	1422	1458	3-	5		2	1			4	1415	C9.2 10486
29	1650	1659	1731	2	1						2	1649	C8.1 10486
29	1811D	1817D	1839U	1+	1						1	1810	C7.8 10488
29	2037D	2041U	2049U	1-	1						1	2037	X10.0 10486
30	0154	0205	0244	2	3						2	0156	M1.6 10488
30	0833	0838	0920	1+	5						4	0832	C7.7 10492
30	1222	1229	1247	1	5		1				1	1222	C7.6
30	1247E	1254	1316	1+	1						1	1245	C7.3 10488
30	1259	1310	1334	1	1		1					*	
30	1514	1527	1601	2	5		1				2	1515	M1.5 10486
31	0150	0154	0210	1	1						1	0150	C5.5 10488
31	0229	0239	0307	2	1						1	0239	C5.0 10488
31	0429	0433	0507	2-	3						2	0426	M2.0
31	0604	0612	0640	2-	3						3	0608	M1.1 10488
31	0747	0749	0810	1	3						3	No flare	
31	1224	1233	1248	1	1						1	1224	C8.5
31	2025	2038	2217	3-	1						2	2014	C5.1 10488
31	2052D	2105D	2228D	3	1						1	2050	C9.5 10488

* = no flare patrol.

OBSERVATORIES REPORTING FOR OCTOBER 2003

Athens, Greece	SES	Nerja, Spain	SES
Bern, Switzerland	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Calcutta, India	SES	Sofia, Bulgaria	SES
Cambridge, England, UK	SES	Stanford, Connecticut, USA	SES
Edenvale, Rep of S. Africa	SES	Sussex, United Kingdom	SES
Houston, Texas, USA	SES	Upice, Czech Republic	SEA
Isola del Gran Sasso, Italy	SES	Villiersdorp, South Africa	SES
Kirksville, Mississippi, USA	SES		

Observations are not necessarily continuous.