

SUDDEN IONOSPHERIC DISTURBANCES

OCTOBER 2002

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	1530	1535	1613	2	1					1	1532	C1.3	
03	0216	0220	0252	2-	3					2	0215	M2.1	10137
03	1011	1020	1059	1	5					2	1007	C1.4	
04	0039	0043	0115	2-	3					2	0039	M1.0	10137
04	0152	0154	0222	2-	3					2	0151	C7.0	
04	0419	0425	0500D	2	1					1	0417	C4.1	10137
04	0459	0501	0532	2-	3					2	0457	C5.3	
04	0534	0538	0624	2	3					2	0534	M4.0	10137
04	0854	0856	0858	1-	3					2	0856	C8.0	10137
04	0908	0911	0951	3-	5	1	1	1		6	0856	C8.0	10137
04	1027	1032	1101	2	5	1	1	1		4	1019	C6.2	10139
04	1103	1106	1152	3	5	1	1	1		7	1054	M3.5	10137
04	1149	1153	1210	1	1					1	No flare		
04	1200	1208	1217	1-	1					1	1200	C3.2	
04	1247	1301	1421	3	5	1	1	1		7	1243	M1.2	10139
04	1328	1332	1350	1	1					1	No flare		
04	1549	1601	1607	1-	5	1	1			9	1549	C9.0	10137
04	1705	1709	1732	1+	5					4	1704	M1.2	10137
04	1907	1913	1921	1-	1					1	1907	C5.7	10139
05	0233	0235	0245	1-	1					1	0234	C2.8	10137
05	0516	0521	0552	2-	3					2	0519	C4.2	
05	0726	0728	0741	1-	3					2	0720	C3.4	
05	0749	0751	0807	1	3					2	0748	C2.0	10139
05	0855	0858	0909	1	3					2	0853	C2.5	
05	1042	1045	1155	3	5	1	1	1		5	1039	M1.2	
05	1132	1140	1155	1	1					1	1128	C1.3	10137
05	2053	2101	2110	1-	3					2	2042	M5.9	10139
06	0447	0450	0522	1+	3					2	0446	M2.4	10139
06	1009	1016	1016D	2	5			1		3	1005	C2.2	
06	1153	1155	1241	3-	5	1	1	1		5	1149	M1.0	10139
11	0831	0835	0847	2+	5		1	1		4	0829	C2.4	10139
11	1018	1024	1027	1-	1					1	1015	C2.0	
13	1751	1757	1822	1+	3					3	1746	C4.7	10150
14	0934	0942	1003	2-	5	1		1		3	0931	C4.7	10159
14	1421	1424	1438	1-	5					4	1419	C1.3	
15	1331	1334	1345	1-	3					2	1331	C2.0	10140
15	1351	1353	1404	1-	3					2	1350	C1.7	
15	1411	1416	1445	2+	5		1	1		10	1408	M1.0	10149
16	1148	1151	1159	1-	5					3	1147	C1.8	10160
16	1233	1239	1303	1	5					5	1231	C1.8	
16	1515	1525	1552D	2	1					1	1522		10149
16	1557	1613	1709	2	5					7	1551	C6.5	
17	1157	1208	1223	1+	5					2	1158	C3.5	10158
17	1423	1450	1520D	2+	1					1	1430	C2.0	10159
17	1520	1545	1628	2+	1					1	1540	C1.2	
17	1744	1807	1849	2+	3					2	1730	C3.0	10149
18	0932	0939	0952	1	1					1	0932	C2.7	
18	0959	1009	1015	1-	5					2	1002	C3.0	
18	1208	1215	1225	1-	1					1	1209	C2.3	10162
18	1521	1527	1610	2-	3					3	1519	C2.1	10162
18	1911	1931	2015	2	3					2	1914	C4.1	10162
19	1347	1349	1402	1-	1					1	1341	C1.7	10160
19	1754	1757	1806	1-	1					1	1754	C1.5	10160
19	1818	1829	1910	2	3					4	1816	C5.0	10162

\* = no flare patrol.

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						SWF	SEA	SPA	LF-SPA	SES			
20	0036	0042	0100	1	1					1	0032	M1.8	10162
20	0332	0341	0430	2+	1					1	0331	M1.5	10162
20	0501	0515	0612	2+	1					1	0501	M1.2	10160
20	0613	0615	0630	1-	1					1	0611	C3.6	10162
20	0905	0910	0925	1-	1					1	0909	C2.4	10158
20	0951	0956	0956U	1+	1					1	0952		10162
20	1025	1038	1105	2-	3					3	1025	C2.8	
20	1355	1358	1426	3	5	1	1	1		8	1351	C5.9	10162
20	1422	1428	1510	2	5					8	1421	M1.8	10160
20	1755	1807	1849	2+	1					1	1752	C2.6	10154
21	1137	1145	1152	1-	1					1	1130	C2.9	
21	1155	1205	1215	1	5					2	1130	C2.9	
21	1217	1226	1239	1	5					2	1215	C3.7	10162
22	0412	0415	0445	2	1					1	0410	C2.4	10162
22	1243	1251	1311	1	5					3	1243	C2.2	10162
22	1531	1537	1554	1	5					3	1529	M1.0	10162
24	1810	1813	1826	1-	1					1	1802	C7.4	10162
25	0700	0701	0715	1-	1					1	0702		10162
25	1315	1317	1323	1-	1					1	1313	C1.1	10162
28	0915	0919	0933	1-	1					1	0907	C2.1	10162
28	0952	0955	1011	1-	1					1	0950		10162
28	1203	1211	1253	3	5	1	1	1		4	1200	M1.7	10162
28	1416	1419	1431	1-	5					2	1413	C2.5	10162
29	1339	1344	1400	1-	5					3	1342	C2.2	10162
29	1408	1412	1458	2+	1					1	1419	C2.2	10162
29	1418	1428	1500	1+	5					2	1419	C2.2	10162
29	1446	1448	1454	1-	1					1	1445	C1.6	10173
29	1513	1523	1547	2-	5					2	1519	C8.7	10175
29	1522	1532	1602	2-	5					3	1519	C8.7	10175
29	1615	1627	1701	2	3					2	1620	C9.7	10162
29	1623	1636	1744	3-	1					2	1620	C9.7	10162
30	0455	0500	0530	2	1					1	0456	C3.9	
30	0943	0944	0956	1-	1					1	0940	C1.6	
30	1525	1530	1603	2-	3					2	No flare		
30	1629	1641	1717	2+	1					2	1627	C5.5	
30	1716	1721	1727D	1-	1					1	1714	C5.2	
30	1727	1738	1831	2+	1					1	1727	C5.4	10162
31	0919	0922	0951	3	5	1	1	1		4	0918	M1.1	
31	1019	1032	1112	2	3					3	1019	C9.5	10177
31	1618	1626	1642	1	3					5	1617	C3.9	
31	1649	1654	1739	2-	5					6	1647	X1.2	
31	1809	1827	2020	3+	1					1	1802	C8.0	10162

\* = no flare patrol.

OBSERVATORIES REPORTING FOR OCTOBER 2002

Amherst, New Hampshire, USA	SES	Milan, Italy	SES
Bedford, Massachusetts, USA	SES	Nerja, Spain	SES
Bern, Switzerland	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Brookline, Massachusetts, USA	SES	Sofia, Bulgaria	SES
Edenvale, Rep of S. Africa	SES	Sussex, United Kingdom	SES
Hoogstraten, Belgium	SES	Torrington, Connecticut, USA	SES
Isola del Gran Sasso, Italy	SES	Villiersdorp, South Africa	SES
Marlborough, Massachusetts, USA	SES		

Observations are not necessarily continuous.