

SUDDEN IONOSPHERIC DISTURBANCES

DECEMBER 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	1402	1410	1423	1	1		1				No flare		
01	1522	1528	1559	2-	5					5	1519	C5.5	10208
02	1924	1927	1937	1-	1					1	1919	C9.5	10208
03	0815	0828	0839	2	5	1	2	1		3	0811	C8.3	10208
04	1342	1354	1405	1	1		1				*		
06	0854	0856	0912	1	3					2	0850	C2.1	10214
06	1022	1028	1051	3-	5	1		1			1035	C1.7	
06	1035	1058U	1206	1	1		1				1035	C1.7	
07	0958	1001	1032	2	1					1	0955	C2.1	
08	0823	0826	0841	1-	3					4	0821	C2.5	10214
08	0908	0911	0927	1-	3	1	2				0915		
10	0715	0720	0740	1	3					2	No flare		
10	1222	1233	1259	2+	5		2	1		3	1219	M1.1	
11	1326	1336	1406	1	1		1				*		
11	1402	1410	1433	2	5	1	2	1		5	1402	C7.1	
12	0812	0816	0842	1+	3					2	0802	C4.2	
12	0831	0842U	1011	1	1		1				*		
12	1124	1128	1140	2	5		2	1		2	1121	C5.8	
12	1233	1245	1323	1	1		1				1233	C8.3	
12	1327	1336	1418	2-	5					3	*		
13	0833	0836	0858	1	3		1			2	0832	C3.4	10224
13	0936	1005	1022	1	1		1				0920	C1.9	
13	1042	1053	1138	1	1		1				*		
13	1327	1333	1338	1-	5	1	2			6	1325	C8.0	
13	1711	1723	1756	2-	3					5	1710	C6.8	
14	0834	0838	0838U	1	1					1	0827	C3.9	10226
14	0839	0852	0913	1	3		1			1	0827	C3.9	10226
14	0948	0958	1044	1	1		1				No flare		
14	1127	1145	1210	1	1		1				1158	C2.0	
15	1130	1138	1248	1	1		1				1125	C3.1	
15	1546	1550	1630	2	5					3	1546	C4.3	
15	1801	1804	1825	1	3					3	1801	C5.9	
16	1111	1123	1157	3	5	1	2	1		4	1107	M2.5	10225
16	2103	2110	2126	1	1					1	2102	C7.9	
17	0500	0506	0530	1+	1					1	0459	C5.3	10227
17	0551	0555	0612	1	1					1	0549	C3.5	10229
17	0814	0841	0916	1-	3		1			1	0747	C4.1	10227
17	1002	1006	1013	2+	5		2	1		2	1000	C5.9	10227
18	0631	0640	0750	2+	3					2	0631	M2.4	10226
18	1144	1157	1206	2+	5		2	1		4	1141	C7.1	
19	0517	0521	0540	1	3					2	0515	C3.7	
19	0550	0558	0632	2-	3					2	0515	C3.7	
19	0651	0655	0721	1+	1					1	0649	C2.1	
19	0727	0731	0757	1+	3					2	0727	C2.9	10226
19	0816	0819	0848	1+	3					2	0815	C2.3	
19	0940	0944	0959	1	1					1	0937	C2.3	10226
19	1255	1300	1310	1-	1					1	1301	C2.2	
19	1314	1317	1324	2+	5	1	1	1		1	1301	C2.2	
20	0541	0543	0614	2	1					1	0536	C1.6	10230
20	0759	0804	0821	1	1					1	0757	C1.9	10226

\* = no flare patrol.

SUDDEN IONOSPHERIC DISTURBANCES

DECEMBER 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			
20	0817	0819	0854	2	1					1	0820	C8.5	10226
20	0826	0836	0906	2-	3		1			4	0820	C8.5	10226
20	1126	1130	1145	1	1					1	1125	C2.7	
20	1249	1256	1311	1-	3		1			3	1247	C4.2	
20	1313	1318	1355	2-	5		1			8	1313	M6.8	10226
21	0448	0450	0505	1-	1					1	0448	C4.6	10226
23	0718	0720	0740	1	1					1	0715	C3.8	
23	1209	1217	1232	1	1		1				1158	C1.1	
24	0521	0527	0610	2	3					2	0519	C5.8	10224
24	1441	1446	1508	1+	3					2	1443	C5.8	10224
24	1448	1458	1534	2	1		1				1443	C5.8	10224
25	0547	0552	0611	1	3					2	0540	C4.8	
25	1157	1207	1226	1+	3					2	1153	C3.5	
25	1749	1756	1835	2	3					2	1749	C2.9	
26	0824	0829	0901	2-	3					3	0823	C1.9	

\* = no flare patrol.

OBSERVATORIES REPORTING FOR DECEMBER 2002

Alberta, Canada	SES	Marlborough, Massachusetts, USA	SES
Amherst, New Hampshire, USA	SES	Milan, Italy	SES
Athens, Greece	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Banning, California, USA	SES	Sofia, Bulgaria	SES
Bedford, Massachusetts, USA	SES	Sussex, United Kingdom	SES
Bern, Switzerland	SES	Torrington, Connecticut, USA	SES
Brookline, Massachusetts, USA	SES	Upice, Czech Republic	SEA
Edenvale, Rep of S. Africa	SES	Villiersdorp, South Africa	SES
Isola del Gran Sasso, Italy	SES		

Observations are not necessarily continuous.