

SUDDEN IONOSPHERIC DISTURBANCES  
DECEMBER 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				
02	0757	0807	0836	2-	3		1				1	0757	C3.9	10508
02	0941	0947	1025	1+	5		1				3	0940	C7.2	10508
02	1108	1113	1212	1	1		1					No flare		
02	1227	1230	1250	1	1		1					No flare		
02	1252	1308	1341	1+	5		1				2	1247	M1.4	10508
02	2104	2108	2140	1+	3						3	2101	C5.0	
05	0939	0949	1005	2	5	1		1				No flare		
05	1016	1019	1045	1+	1						1	1011	C1.8	10513
05	1333	1349	1409	1	1		1					1343	C1.1	
06	0745	0747	0757	1	3						2	0742	C1.1	
06	0808	0814	0922	2-	1						1	0808	C2.5	
06	0952	1000	1020	2+	5		2	1			3	0951	C4.1	
06	1103	1120	1140	3-	5		2	1			2	1058	M1.3	
06	1322	1334	1352	1	1		1					No flare		
06	1538	1545	1627	2	3						3	1539	M2.0	
06	1923U	1940D	1956D	2	1						1	1923	C4.1	
07	0248	0256	0347	2+	1						1	0246	C3.1	
07	0618	0622	0633	1-	1						1	0609	C1.1	
07	0936	0954	1119	1	1		1					No flare		
07	1256	1314	1416	1	1		1					*		
08	1314	1326	1343	1	1		1					*		
10	1158	1210	1234	1	1		1					*		
10	1257	1312	1357	1	1		1					1341	B.14	
10	1437	1440	1515	2	1						1	1453	B1.7	
12	1023	1043	1128	1	1		1					No flare		
12	1216	1225U	1330	1	1		1					No flare		
13	0730	0737	0756	1	1		1					No flare		
13	0804	0819	0844	1	1		1					No flare		
17	0302	0312	0349	2+	1						1	0255	C8.6	10525
17	0619	0622	0642	1	3						2	0615	C1.8	
17	1330	1351	1447	1	1		1					No flare		
18	0730	0735	0800	1+	1						1	No flare		
18	0923	0931	0956	1+	5		1				7	0919	C8.6	10525
18	1207	1211	1224	2+	5		2	1			2	1200	C5.5	
18	1414	1425	1444	1	1		1					1420	C1.4	
19	0807	0816	0852	2-	3		1				3	0805	C9.3	10528
19	1226	1231	1238	2-	5		2	1			2	1220	C5.9	10525
19	1641	1647	1703	1	3						4	1637	C5.4	10525
20	1421	1433	1453	1	1		1					1419	C1.8	10525
21	0243	0251	0359	2+	1						1	0238	C4.5	10528
21	0414	0418	0441	1+	1						1	0410	C2.0	
21	0855	1040	1059	1	1		1					No flare		
21	1250	1301	1320	1+	5						2	1253	C2.0	10528
22	1340	1351	1409	1	1		1					1346	C2.3	10528
22	1555	1605	1615	1	1						1	No flare		
22	1943D	1953D	2029D	2+	1						1	1937	C3.7	10528
23	0732	0736	0756	1	1						1	0728	C1.6	10525
23	1019	1025	1045	2+	5		2	1			5	1014	C6.9	10525
23	1244	1307U	1338	1	1		1					*		
25	0808	0822	0856	2	3						2	0738	C5.3	10528
25	1159	1210	1247	1	1		1					No flare		
25	1301	1341U	1459	1	1		1					No flare		

\* = no flare patrol.

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						SWF	SEA	SPA	LF- SPA	SES			
26	1026	1033	1058	2	5		2	1		5	1023	C7.1	10528
26	1350	1415	1431	1	1		1				*		
26	1616	1620	1639	1	3					2	1614	C1.8	10528
26	1916	1929	2002	2	3					4	1913	M1.5	10528
30	1224	1237	1302	1	1		1					No flare	
31	1728	1733	1749	1-	3					2	1725	C2.3	
31	1758	1806	1822D	1	1					1	1759	C2.2	
31	1821	1824	1903	2-	3					4	1821	M1.0	10528

\* = no flare patrol.

OBSERVATORIES REPORTING FOR DECEMBER 2003

Alberta, Canada	SES	Milan, Italy	SES
Athens, Greece	SES	Nerja, Spain	SES
Bern, Switzerland	SES	Palo Alto, California, USA	SES
Calcutta, India	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Cambridge, England, UK	SES	Sofia, Bulgaria	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
Marlborough, Massachusetts, USA	SES		

Observations are not necessarily continuous.