

SUDDEN IONOSPHERIC DISTURBANCES

NOVEMBER 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	0421	0427	0440	1-	5						2	0417	C3.7	10486
01	0443	0447	0503	1-	5						2	0436	C2.8	
01	0452	0457	0517	1	5						3	0450	C5.6	10488
01	0526	0530	0543	1-	5						3	0526	C3.6	10486
01	0812	0820	0835	1	5			1			5	0814	C4.4	10486
01	0843	0845	0857	2+	5	1	2	1			6	0839	M1.3	10488
01	1136	1146	1209	3-	5	1	2	1			4	1131	C9.7	10488
01	1743	1751	1846	2	3						2	1742	M1.1	10488
01	2228D	2237D	2326U	2+	1						1	2226	M3.2	10486
02	0240	0246	0254	1-	1						1	0237	C4.0	10486
02	0749	0755	0814	1	5						4	0659	M1.0	10486
02	0855	0909U	0922	1	1			1				No flare		
02	0933	0947U	1036	1	1			1				No flare		
02	1227	1231	1247	1	1						1	1230	M1.8	10488
02	1231	1247	1358	3	5	1	2	1			3	1230	M1.8	10488
02	1437	1445	1511	1+	5			1			2	No flare		
02	1542	1555	1619	1	1			1				1539		10486
02	1704	1716	1801	2	3						2	1703	X8.3	10486
03	0444	0450	0501	1-	1						1	0450		10486
03	0633	0639	0706	1+	5						2	*		
03	0746	0823	0846	2	1			1				*		
03	0836	0849	0858	2	1					1		*		
03	0914	0923U	0945	2	1			1				*		
03	0945	0959	1040	3	5	1	2	1			7	0943	X3.9	10488
03	1017	1035	1124	2-	5						3	1021E		10488
03	1340	1414	1502	1	1			1				No flare		
03	1528	1534	1613	2	5			1			6	1526	M3.9	10486
03	1550	1555	1605	1-	1						1	1544		10486
03	2028D	2038D	2102U	2	1						1	2031	C5.4	
04	0402	0410	0430	1+	5						3	0404	C5.0	
04	0421	0429	0510	2	5						3	No flare		
04	0544	0551	0635	2	3						3	0543	M2.6	
04	0650	0654	0713	1-	3						3	No flare		
04	0825	0834	0919	2	5						2	No flare		
04	0941	0944	0957	1-	1						1	0940	C2.8	10486
04	1012	1020	1112	3	5	1	2	1			9	1011	M3.0	10488
04	1117	1120	1127	2	5	1	2	1			4	1115	C5.7	10486
04	1344	1348	1407	2	5			2	1		4	1343	M1.1	10486
04	1451	1457	1520	1	1			1				*		
04	1940	1949	2027	2	3						2	1929	X28.0	10486
05	0240	0243	0317	2-	5						2	0237	M1.6	10486
05	0754	0759	0828	2-	5						4	0754	C4.7	
05	0930	0954U	1050	2	1			1				No flare		
05	1048	1054	1113	3	5	1	2	1			4	1046	M5.3	10486
05	1348	1409U	1446	1	1			1				No flare		
08	0943	0958	1013	1	1			1				No flare		
09	0636	0640	0658	1	1						1	No flare		
10	1026	1041	1109	1+	5			1			1	1029	B1.9	
10	2129	2132	2138	1-	1							2125	C1.9	
11	0528	0545	0610	2	1						1	0526	B7.8	
11	0729	0738	0802D	1	1			1				No flare		
11	0802	0817	0900	1	1			1				No flare		
11	1212	1227	1314	1	1			1				No flare		
11	1328	1349	1444	2+	3			2			3	1321	M1.6	10498
11	1557D	1610D	1644U	2+	1						1	1523	C8.5	
12	0932	0940	1008	1+	3						3	0928	C1.8	
12	1027	1046	1103	2	1			1				*		
12	1156	1201	1226	1	1			1				*		
12	1348	1354	1402	2+	5			2	1		2	1342	C2.3	

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						SWF	SEA	SPA	LF-SPA	SES			
13	0455	0459	0536	2	3					2	0454	M1.6	
13	0808	0848	0848	2	1		1				No flare		
13	0856	0909	1038	2+	3		1			1	0903	M1.4	10501
13	0907	0925	1059	2+	3					4	0903	M1.4	10501
13	1058	1104	1132	1	3		1			3	1102	C5.0	
13	1210	1223	1320	1	1		1				No flare		
14	0858	0912	1004	1	1		1				0905	B5.0	10501
15	0430	0433	0439	1-	1					1	No flare		
15	0922	0954	1035	1	1		1				0930	B5.4	
16	0749	0806	0806U	1	3	1	2			2	0749	C1.9	
16	0818	0828	0851	1	1	1					0834	C1.0	
16	1019	1033	1107	1+	3		1			6	1010	C7.0	10501
16	1810D	1818D	1847D	2	1					1	1808	C4.9	10501
16	1852D	1856D	1916D	1	1					1	1850	C2.6	10501
17	0820	0840	0944	1	1		1				No flare		
17	0857	0905	0923	3-	5	1		1		4	0855	M4.2	10501
17	1342	1353	1431	1	1		1				1341	C2.5	
17	2001D	2005D	2019D	1-	1					1	2001	C3.1	
18	0135	0140	0203	1+	5					2	0134	M1.8	10501
18	0519	0525	0548	1+	5					3	0525	C3.8	10501
18	0725	0740	0826	2-	5		1			5	0723	M3.2	10501
18	0814	0825	0908	2+	3					3	0812	M3.9	10501
18	0937	0956	1017	1+	1	1	1			1	0923	M4.5	
18	2141D	2148D	2211D	1+	1					1	2144	C2.2	10507
18	2216	2222	2300	2-	3					2	2215	C6.1	
19	0356	0401	0442	2	3					2	0355	M1.7	10501
19	0801	0814	0907	2-	3		1			2	0759	C8.8	10501
19	0930	0934	1008	2	1					1	0926	C4.9	10501
19	1148	1206	1308	2	1		1			1	1146	C2.8	10506
19	1417	1422	1438	1	1					1	1414	C3.9	
19	1501	1517	1556	2+	5		1			2	1455	C9.1	10506
20	0435	0442	0514	2-	5					3	0432	C4.3	10508
20	0726	0729	0745	1	5		1			4	0725	C3.8	10501
20	0737	0748	0813	3	5	1	2	1		4	0735	M9.6	10501
20	0935	0940	0945	1-	1					1	No flare		
20	1013	1022	1056	2+	5		2	1		6	1013	C4.1	
20	1232	1240	1302	2	5		2	1		2	1231	C3.5	
20	2347D	2354D	2359U	1+	1					1	2342	M5.8	10501
21	0940	0952	1019	3-	5		1	1		5	0937	C4.3	10506
24	0827	0842	0921	1	1		1				No flare		
24	2009	2016	2038	1+	3					2	2008	C2.3	10508
25	0558	0604	0655	2+	1					1	0554	C3.0	10508
25	0932	0947	1050	1	1		1				0924	C2.2	
25	1014	1017	1029	1-	1					1	No flare		
25	1326	1329	1357	1	1		1				1325	C1.3	10508
26	0911	0930	0948	1	3	1	2				No flare		
27	0638	0644	0704	1+	1					1	0634	C1.9	10508
27	0801	0818	0933	2+	5		1			3	0741	C9.6	10508
27	1607	1700	1907	3+	1					1	No flare		
27	1824	1830	1900	2	1					1	No flare		
27	1843	1848	1945	2+	1					1	1839	C2.7	10508
28	0910	0916	0943	2-	5					2	0906	C3.6	10508

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						SWF	SEA	SPA	LF- SPA	SES			
29	0633	0641	0657	1	1					1	0632	C2.0	10508
29	0657	0659	0711	1-	1					1	0656	C1.5	10508
29	0832	0836	0854	1	5					2	0830	C1.9	10507
29	1009	1013	1046	2	1					1	1006	C2.6	10508
29	2103	2111	2207	2+	1					1	2100	C4.2	10510

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OBSERVATORIES REPORTING FOR NOVEMBER 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.