

SUDDEN IONOSPHERIC DISTURBANCES

AUGUST 2004

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	1010	1015	1020	1-	1						1	1020	B1.5	
03	0602	0617	0710	1	1			1				0604	B1.9	10655
03	0819	0906	1052U	1	1			1				0814	B9.1	10655
03	1621	1632	1711	1	1			1				No flare		
04	0554	0557	0606	1	1			1				No flare		
04	1722	1737	1757	1	1			1				No flare		
05	0541	0634U	0640D	1	1			1				No flare		
05	1703	1730	1809	1	1			1				No flare		
06	0627	0706	0723	2	1			1				*		
06	1320	1332	1403	1	1			1				No flare		
08	1415	1420	1450	2	1					1		1426	B5.7	10656
08	1700	1707	1736	1+	5					3		1659	C2.7	10656
08	1716	1725	1812	2-	5					2		1659	C2.7	10656
09	0727	0735	0745	1+	3					2		0726	C2.4	10656
09	0806	0819	0841	2	5	1		1		3		0756	C4.8	10656
09	0830	0840	0845	1-	1					1		0832	C1.1	10656
09	1104	1134	1203	2	5	1	1	1		4		1101	C1.7	10656
09	1327	1337	1353	3-	5	1		1		3		1322	C3.3	10656
09	1459	1507	1539	1	1			1				1518	C1.1	10656
09	1546	1552	1607	1-	5			1		1		1536	C1.9	10656
09	1637	1645	1657	1	1			1				No flare		
09	1659	1708	1729	1	1			1				No flare		
10	1147	1154	1157	1-	1					1		*		
10	1231	1235	1252	2	5	1		1				*		
10	1430	1448	1545	3-	5					4		*		
10	1730	1737	1755	1	1			1				1725	C1.0	10656
10	1738	1756	1804	1+	1					1		1735	C1.2	
11	0820	0825	0830	1-	1					1		0823	C1.3	10656
11	0849	0854	0911	1	5					4		0849	C2.9	10656
11	1014	1020	1043	2	5	1		1		2		1009	C4.2	10656
11	1137	1144	1215	3	5			1		9		1135	C7.6	10656
11	1403	1410	1415	1-	1					1		1406	C1.8	10656
11	1533	1536	1540	1-	1					1		1535	C1.8	10656
11	1612	1621	1638	2-	5			1		1		1612	C2.8	10656
11	1746	1751	1759	1-	1					1		1747	C1.7	10656
12	0443	0450	0450U	1+	1					1		0438	M1.2	10656
12	0501	0509	0625	1+	5					2		0438	M1.2	10656
12	0631	0635	0655	1	1					1		0619	C2.2	10656
12	0934	0939	1010	3-	5	1		1		3		0931	C4.0	10656
12	1131	1141	1211	2	5	1		1		5		1127	C4.9	10656
12	1257	1301	1315	1-	5					5		1257	C2.1	10656
12	1616	1621	1621U	2	5			1		6		1611	C6.5	10656
12	1814	1822	1841	1+	1					1		No flare		
12	1853	1900	1914	1-	5					2		1853	C4.4	10656
13	0640	0644	0702	1+	5	1		1				0636	M1.2	10656
13	0721	0727	0807	3-	5	1		1		5		0722		10656
13	0936	0938	0956	2-	5	1		1		5		0936	C2.4	10656
13	1206	1212	1249	3	5	1		1		9		1202	M1.1	10656
13	1323	1327	1339	1-	5					2		1326		10656
13	1514	1519	1543	2+	5	1		1		11		1510	C8.6	10656
13	1655	1700	1705	1-	1					1		1655	C2.3	10656
13	1724	1739	1803	2	5					2		No flare		
13	1807	1814	1901	2	5					5		1807	X1.0	10656
13	1954	2001	2022	1	3					2		No flare		

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						SWF	SEA	SPA	LF-SPA	SES			
14	0413	0415	0500	2+	1					1	0410	M2.4	10656
14	0542	0552	0611	3	5	1	1	1		5	0536	M7.4	10656
14	0632	0658	0748	1	1			1			No flare		
14	0755	0806	0831	3	5	1	2	1		4	0751	M2.3	10656
14	0926	0929	0950	3-	5	1	2	1		6	0923	C8.1	10656
14	0954	1000	1105	3	5	1	2	1		6	0952	M3.2	10656
14	1142	1203	1219	1+	3			1		1	1201	C7.4	10656
14	1203	1214	1310	3	5	1	2	1		9	1201	C7.4	10656
14	1336	1342	1442	3	5	1	2	1		13	1331	M5.6	10656
14	1515	1524	1553	1+	5			1		10	1515	C5.9	10656
14	1630	1640	1711	2-	5					7	1629	C5.2	10656
14	1733	1744	1805	2-	3					3	*		
14	1809	1819	1908	2	5					6	1809	M1.3	10656
14	2012	2019	2109	2	5					5	2009	M1.3	10656
15	0500	0505	0538	2	1					1	0445	M1.2	10656
15	0553	0601	0641	1+	5					4	0554	M1.2	10656
15	1125	1131	1226	3	5	1	1	1		14	1123	M2.6	10656
15	1237	1241	1314	3	5	1	1	1		13	1234	M9.4	10656
15	1638	1646	1651	2	5			1		6	1642	C2.9	10656
15	1719	1723	1734	1-	1					1	1716	C1.4	10656
15	1801	1804	1837	2	1					1	1759	C1.6	10656
15	1841	1845	1931	2	5					5	1837	M1.2	10656
15	2039	2045	2123	2	3					4	2037	C4.9	10656
16	1013	1033	1124	3	5	1		1		6	1010	C8.0	10656
16	1334	1358	1459	3	5	1	1	1		6	1330	C9.0	10656
16	1737	1744	1747	1-	5					2	1744	C1.9	10656
16	1949	1955	2049D	2+	1					1	1949	C2.8	10656
16	2049	2056	2137U	2+	1					1	2046	C6.2	10656
17	0501	0507	0639	2	1					1	0459	M1.1	10656
17	0626	0636	0644	2-	5	1		1			0629		10656
17	0737	0740	0754	2+	5	1	2	1		2	0735	C5.2	10656
17	0836	0842	0921	2	5	1	1	1		2	0832	C4.9	10656
17	0855	0859	0910	1-	1					1	No flare		
17	0955	1000	1033	2	5	1		1		3	0952	C4.1	10656
17	1029	1053	1238	3+	1					1	1044	C1.8	10661
17	1328	1334	1412	3-	5	1	1	1		8	1319	C8.8	10656
17	1708	1720	1752	1	1			1			No flare		
17	1801	1807	1902	2+	3					4	1800	C7.2	10656
17	1923	1933	2029	2+	3					4	1926	M2.4	10656
17	1949	1952	2023	2	1					1	*		
17	2115	2122	2207	2	3					5	2112	M1.8	10656
17	2210	2213	2218	1-	1					1	2212	M1.3	10656
17	2214	2230	2254	2	1					1	2212	M1.3	10656
18	0711	0713	0727	2	1			1			0714		10656
18	0750	0751	0751U	2-	5	1		1			No flare		
18	0803	0820	0828	2	5	1		1			No flare		
18	0841	0859	1006	2+	5	1		1		1	No flare		
18	1042	1048	1116	2	5	1		1		4	1040	C3.2	10661
18	1353	1358	1414	2+	5	1		1		9	1348	C4.0	10656
18	1624	1628	1647	2-	5			1		6	1621	C7.2	10656
18	1734	1745	1745U	3	5	1	1	1		7	1729	X1.8	10656
19	0635	0645	0645U	1-	1	1					0635	M3.0	10656
19	0652	0709	0814	3	5	1	1	1		4	0635	M3.0	10656
19	1145	1153	1210	2	5	1		1		1	No flare		
19	1231	1240	1244	2+	5			1		7	1228	C3.0	10656
19	1301	1308	1315	2-	5			1		7	1250	C4.2	10656
19	1334	1344	1446	3-	5	1	1	1		10	1329	M2.1	10656
20	1350	1402U	1442	1	1			1			No flare		

* = no flare patrol.

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						SWF	SEA	SPA	LF- SPA	SES			
21	1507	1517	1551	1	1		1				No flare		
24	1336	1400	1456	2+	1					1	1330	B7.6	
26	0211	0217	0229	1	1					1	0208	C1.8	10663
28	0651	0715	0810	2	1		1				No flare		
28	0920	0930	0954	1	1		1				0915	B1.8	
28	1239	1307	1354	1	1		1				1243	B1.5	
31	0533	0542	0722	2+	1					1	0524	M1.4	10663

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OBSERVATORIES REPORTING FOR AUGUST 2004

Alberta, Canada	SES	Marlborough, Massachusetts, USA	SES
Athens, Greece	SES	Nerja, Spain	SES
Bedford, Massachusetts, USA	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Bern, Switzerland	SES	Sofia, Bulgaria	SES
Brookline, Massachusetts, USA	SES	Sussex, United Kingdom	SES
Calcutta, India	SES	Torrington, Connecticut, USA	SES
Cambridge, England, UK	SES	Udine City, Italy	SES
Edenvale, Rep of S. Africa	SES	Upice, Czech Republic	SEA
Houston, Texas, USA	SES	Villiersdorp, South Africa	SES
Isola del Gran Sasso, Italy	SES		

Observations are not necessarily continuous.