

SUDDEN IONOSPHERIC DISTURBANCES

SEPTEMBER 2001

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	2042	2047	2122	2-	3					2	2039	C2.7	9591
02	0915	0927	1004	2+	5		1	1		1	0912	C8.4	
02	1148	1155	1209	2	5	1		1		1	1146	C4.7	9591
02	1312	1317	1342	2-	3					2	1311	C3.3	9601
02	1344	1349	1454	3	5	1	2	1		7	1341	M3.0	9591
02	1513	1521	1607	2-	5		1			3	1515	C3.6	9601
02	1640	1644	1718D	2	1					1	1640	C6.4	9591
02	1644	1750	1845	3	1					1	1640	C6.4	9591
02	1900	1905	1930	1+	1					1	1902	C2.0	
03	0851	0907	1043	2	1		1				No flare		
03	0941	0946	1005	2	5	1	1	1		2	0938	C7.2	9601
03	1041	1047	1144	3-	5	1	1	1		2	1040	C6.8	9601
03	1646	1657	1805	2	5		1			4	1645	M1.1	9601
03	1817	1824	1957	3-	5					5	1821	M2.5	
04	1530	1549	1635	2+	3					3	1512	C9.0	9606
04	1716	1723	1745	1	3					3	1720	C7.4	9606
04	1906	1923	1956	2-	3					3	1853	M1.0	
04	2013	2017	2056	2	5					6	2012	M1.8	9606
04	2154	2200	2255	2+	5					4	2153	M3.7	9601
05	0006	0018	0126	2+	1					1	No flare		
05	0634	0702	0756	2	1		1				0605	C6.4	
05	1417	1425	1443	1+	5		1			1	1414	C4.5	
05	1427	1433	1504	3	5	1	2	1		6	1425	M6.0	9601
05	1630	1634	1655	1	3					3	1628	C8.1	
05	1904	1909	1938	1+	3					5	1903	M1.3	9606
05	2219	2233	2330	2+	3					2	2223	M2.2	9608
06	0343	0346	0415	1+	1					1	0341	C8.1	9601
06	1319	1335	1400	2	5	1	2	1		5	1316	C6.7	9605
06	1532	1537	1553	1	5					6	1532	C4.6	9607
06	1947	1952	2027	2-	5					5	1947	C5.0	9610
07	0105	0110	0130	1	1					1	0105	C8.2	
07	0400	0403	0430	1+	1					1	0359	C5.5	
07	0706	0708	0730	1	1					1	0705	C3.7	
07	1529	1537	1623	2	5					10	1526	M1.2	9601
07	2115	2119	2150	1+	3					2	2113	C5.1	9610
08	0415	0420	0435	1	1					1	*		
08	0445	0450	0508	1+	1					1	0438	M1.2	9608
08	0704	0710	0726	1-	3					2	0703	C3.4	
08	1252U	1306U	1318U	1+	1					1	No flare		
08	1524	1530	1555	1+	5					4	1526	C3.3	9606
08	1641	1647	1720	2-	5					5	1640	C5.1	9608
08	1738	1745	1751D	1-	1					1	1739		9611
08	1910	1922	2006	2	5					5	1900	M1.1	
09	0230	0240	0300	1+	1					1	0232	M1.9	9608
09	0802	0810	0830	2	5	1	1	1		1	0800	C4.5	9607
09	0959	1004	1025	3-	5	1		1		3	0955	M1.0	9608
09	1231	1237	1255	2-	5	1	1	1		1	1229	C4.7	
09	1332	1339	1358	2	5	1	1	1		6	1331	C7.5	9608
09	1514	1521	1558	3	5	1	2	1		10	1510	M3.4	9607
09	1820	1825	1907	2-	1					2	1822	C4.5	9608
09	1832	1842	1914	1+	5					4	1835	M2.0	9608
09	2013	2016	2140	3	1					1	No flare		
09	2042	2044	2135	2	3					4	2040	M9.5	9608
09	2233	2236	2330	2+	1					1	2233	C4.9	9608
10	0821	0829	0901	2	5					2	0818	C6.9	9608
10	1242	1247	1324	1	1		1				No flare		
10	1454	1523	1623	2	1			1			1447	C8.1	9607
10	2042	2046	2152	2+	1					1	2023	C2.4	9608

* = no flare patrol.

SUDDEN IONOSPHERIC DISTURBANCES

141
Sep 01

SEPTEMBER 2001

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			
11	0622	0642	0656	1	1		1				No flare		
11	0656	0707	0738	2	5	1	2	1		2	0653	M1.2	
11	0935	0938	1011	2+	5	1	2	1		2	0933	C9.7	
11	1351	1356	1404	1-	1					1	1400	C3.2	9615
11	1948	1950	2021	2-	1					1	1950	C4.6	
11	2025	2032	2123	2+	5					6	2025	M4.5	9616
12	0435	0445	0515	2	1					1	0435	M1.0	
12	0844	0912	1121	3	1		1				0844	C4.7	
12	1031	1036	1044	1-	1					1	1028	C3.8	
12	1315	1319	1342	1	3					3	1314	C3.4	
12	2121	2142	2246	3-	5					2	2105	C9.6	
13	0002	0012	0056	2+	1					1	0034	C3.7	
13	1559	1602	1636	2-	5					5	1557	C7.0	9610
13	1948	1953	2021	1+	3					4	1948	C5.8	
14	0553	0600	0645	2+	1					1	0551	C5.8	9616
14	0903	0908	0922	1	5					2	0901	C3.7	9616
14	1353	1355	1422	1+	1					1	1352	C2.6	9610
14	1548	1559	1622	2-	3					2	1548	C3.2	9608
14	1840	1848	1941	2	5					6	1839	C5.5	9608
14	2144	2150	2250	2+	5					4	2141	M3.7	
14	2256	2304	2337	3-	5					2	2255	C6.7	
15	0518	0525	0600	2	1					1	0519	C4.7	
15	1105	1114	1208	3	5	1	2	1		2	1104	M1.5	9608
15	1547	1556	1642	2-	5		1			9	1544	M1.3	9616
15	2028	2032	2110	2	3					4	2025	C8.8	9608
15	2116	2122	2203	2	1					1	2117	C5.4	9616
16	0742	0748	0748D	2	5			1		1	0739	C4.5	9616
16	0911U	0919U	0931U	1	1					1	0909	C2.9	9608
16	1033U	1051U	1106U	2	1					1	1020	C2.8	
16	1335	1338	1348D	1-	1					1	1333	C8.9	9616
16	1347	1402	1445	2	5	1	1	1		8	1333	C8.9	9616
16	1604	1609	1629	1	3					4	1604	C3.1	9608
16	1639	1645	1706D	1+	1					1	1644	C2.9	9608
16	1707	1712	1738	1+	3					5	1706	C4.8	9608
16	1840	1847	1940	2+	3					2	1837	C3.5	9616
17	0821	0826	0834	3	5	1	1	1		2	0818	M1.5	9616
17	0825	0834	0910	2	3		1			1	0818	M1.5	9616
17	0927	0935	0956	2	5	1	1	1		2	0926	C7.0	9621
17	1109	1117	1125	1-	1					1	1111	C3.7	
17	1244	1253	1306	1	1					1	1243	C3.6	
17	1549	1555	1621	2+	5	1	2	1		3	1544	M8.1	9608
17	1908	1912	1932	1	1					1	1906	C4.8	
17	2104	2108	2131	1	5					3	2101	M1.0	9616
17	2132	2143	2230	2+	5					2	2132	M1.0	9608
18	0000	0007	0100	2+	1					1	0002	M1.4	9608
18	1438	1442	1521	1-	5		1			3	1438	C6.9	
18	1535	1539	1607	1+	5					3	1531	M1.3	9620
18	1550	1553	1612	1-	5					3	1549	M1.0	
18	1707	1710	1744	1+	5		1			6	1702	M1.4	9628
18	1722	1725	1735	1-	1					1	1719	C6.4	
18	1840	1844	1915	2	1					1	1842	C3.7	
18	1920	1922	1950	1+	1					1	1920	C4.1	
18	1951	1957	2027	2-	3					3	1953	C5.6	
18	2045	2047	2122	2	1					1	2044	C4.9	
19	0340	0344	0415	2	1					1	0338	C3.3	9628
19	0645	0705	0800	2+	1					1	0659	C7.2	
19	0702	0721	0756	2	5		1			1	0659	C7.2	
19	1507	1545	1600D	2+	1					1	1506	C6.7	
19	1548	1608	1631	1	5		1			2	1506	C6.7	
19	1846	1852	1933	2	3					5	1845	C7.5	9628

* = no flare patrol.

SUDDEN IONOSPHERIC DISTURBANCES

SEPTEMBER 2001

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	1437	1441	1505	1+	3					2	1435	C3.4	
20	1814	1817	1907	2-	3					5	1812	M1.5	9631
20	1845	1848	1915	1+	1					1	1848	C3.8	9628
21	1642	1644	1715	2	1					1	1642	C3.6	9632
22	0540	0543	0553	1-	1					1	0541	C4.9	9616
22	0638	0644	0707	1+	1					1	0638	C8.1	9632
22	1051	1056	1109	2-	5	1		1		3	1048	C3.9	9632
22	1502	1508	1545	2-	3					3	1502	C5.0	9632
22	1644	1655	1739	1	1		1				No flare		
22	1808	1814	1901	2	3					3	1808	C5.4	9628
23	0959	1005	1024	1	5					2	0957	C3.2	9628
23	1134	1139	1150	3	5	1	2	1		4	1131	M1.1	9632
23	1359	1409	1437	1+	5		1			2	1349	C3.4	9632
23	1421	1427	1441	2-	5	1	2	1		5	1417	C6.5	9632
23	1425	1445	1500	2	1					1	1417	C6.5	9632
23	1526	1538	1550	1	1					1	1539	C2.5	9628
24	0948	1033	1124	3	5	1	2	1		4	0932	X2.6	9632
25	1020	1030	1058	3	5	1	2	1		3	1018	M2.0	9628
25	1713	1717	1755	2	3					4	1711	C7.0	9628
25	1845	1848	1930	2	1					1	1843	C2.5	9628
26	0840	0850	0930	2+	1					1	0839	C3.8	
26	1207	1228	1240	2	5	1	2	1		3	1204	C5.7	9636
27	0804	0816U	0854	1	1		1				0750		9628
27	0908	1032	1255	2+	5		1			2	0855	M1.0	
27	1228	1258	1446	1	1		1				No flare		
28	0815	0828	0921	3	5	1	2	1		2	0810	M3.3	9636
28	0819U	0843U	0915U	2+	1					1	0810	M3.3	9636
28	0934	0955	1058	2	5	1	2	1		2	0934	M2.4	9628
28	1642	1658	1711	1-	5		1			1	1658	C6.3	9628
28	1707	1716	1755	2	3					2	1658	C6.3	9628
28	1815	1820	1853	2-	1					2	1751	C8.4	
28	1831	1835	1916	2	1					1	1751	C8.4	
28	1916	1923	2030	2+	3					3	1918	M1.0	9637
28	2106	2123	2235	3-	3					2	2115	M1.2	9634
29	0723	0733	0749	2+	5	1	2	1			0721	C7.5	9636
29	1037	1045	1126	3	5	1	2	1		3	1019	M1.8	9636
30	0826	0843	0923	2+	1					1	0810	C6.1	9636
30	1133	1138	1200	3	5	1	2	1		4	1131	M1.0	9628
30	1416	1452	1540	1	1		1				No flare		
30	1728	1731	1750	1	3					3	1727	C6.6	9628
30	1745	1747	1822	2-	1					1	1744	C5.1	
30	1913	1947	1958	1	1					1	1928		9628
30	2007	2014	2045	2	1					1	1946	C5.1	
30	2131	2134	2229	2	3					2	2129	M1.2	

* = no flare patrol.

OBSERVATORIES REPORTING FOR SEPTEMBER 2001

Alberta, Canada	SES	Isola del Gran Sasso, Italy	SES
Bedford, Massachusetts, USA	SES	Milan, Italy	SES
Bern, Switzerland	SES	Nerja, Spain	SES
Brookline, Massachusetts, USA	SES	Panska Ves, Czech Republic	SES, SEA, SWF
Cambridge, England, UK	SES	Sussex, United Kingdom	SES
Edenvale, Rep of S. Africa	SES	Torrington, Connecticut, USA	SES
Houston, Texas, USA	SES	Udine City, Italy	SES
Hudson, Ohio, USA	SES	Upice, Czech Republic	SEA

Observations are not necessarily continuous.