

SUDDEN IONOSPHERIC DISTURBANCES

SEPTEMBER 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	0931	0935	1000	2+	5	1	1	1		6	0930	C6.7	
01	1213	1230	1255	2-	5					3	1205	C3.1	10087
01	1639	1645	1652	1-	3					3	1637	C3.3	
01	2016	2025	2111	2	3					3	2013	C3.1	
02	0907	0910	0925	1-	1					1	0905	C1.9	
03	0743	0745	0800	1-	1					1	0741	C2.6	
04	0624	0630	0648	1	3					2	0622	C2.3	10096
04	1449	1453	1527	2	1					1	1448	C2.5	10096
05	1236	1245	1315	3-	5	1	1	1		7	1234	C5.1	10096
05	2041	2044	2127	2+	1					1	2040	C8.6	10096
06	1626	1631	1706	1+	3					5	1623	C9.2	
06	1638	1645	1702	1	1					2	1636	C5.3	
07	0920	0924	0948	1	1		1				*		
07	1735	1744	1817	2	3					3	1735	C5.4	
08	0136	0140	0215	2	1					1	0135	M1.5	10105
08	0455	0510	0535	1	1		1				No flare		
08	0626	0640	0703	1	1		1				No flare		
08	0708	0716	0749	1	1		1				No flare		
08	1445	1450	1514	1+	5					2	1445	C4.0	10107
09	0653	0713	0754	2	1		1				No flare		
10	0649	0712	0849	3	1		1				No flare		
10	1021	1030	1114	2-	5					3	1018	C3.6	10105
10	1452	1457	1543	3	5	1	2	1		12	1449	M2.9	10105
10	1713	1724	1759	2-	3					2	1711	C5.6	10105
10	1735	1741	1749	1-	1					1	1734	C6.5	10105
10	1953	1958	2026	2	1					1	1948	C3.7	
11	0730	0739	0827	3	5	1	1	1		7	0726	M2.2	10105
11	1042	1054	1145	2	5	1	2	1		4	1038	C4.5	
12	0700	0710	0743	2-	3		1			2	0707	C2.8	10107
12	1149	1154	1206	1-	5					2	1147	C2.5	10107
13	0645	0707	0821	2	3		1			1	0657	C2.8	10105
13	0702	0715	0730	1+	1					1	0657	C2.8	10105
13	0834	0845	0906	1	1		1				No flare		
13	0906	0930	1118	3	1		1				*		
14	0642	0654	0824	2	1		1				*		
14	1209	1213	1326	2+	1					1	1221	C4.1	10105
15	0441	0448	0508	1+	3					2	0441	C3.9	
15	0750	0754	0824	2-	5	1		1		2	0747	C3.7	10105
15	1532	1538	1556	1	3					3	1533	C3.1	10114
15	1731	1737	1826	2	3					4	1729	M1.0	10105
15	1921	1924	1942	1	1					1	No flare		
16	0750	0758	0813	1	1		1				No flare		
16	0832	0846U	0946	1	1		1				0853	C1.6	
16	1541	1559	1627	1+	3		1			1	1546	C4.6	10119
17	0916	0921	0952	1	5					4	0917	C8.8	10119
17	1029U	1052D	1111U	2	1					1	1036	C4.3	10119
18	1019	1032	1057	2+	5	1	1	1		5	1013	C3.1	10119
18	1545	1552	1634	2+	1					1	1532	C2.2	10119
18	1601	1615U	1638	1	1		1				1532	C2.2	10119
18	1716	1724	1805	2	3					3	1714	C3.9	10105

* = no flare patrol.

SEPTEMBER 2002

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						SWF	SEA	SPA	LF-SPA	SES			
19	0513	0517	0800	3+	1					1	0512	C4.7	10125
19	0812	0818	0836	2	5	1	1	1		3	0807	C3.7	10119
19	1302	1320U	1421	1	1			1			No flare		
19	1405	1407	1440	2	1					1	No flare		
19	1429	1433	1455	1-	5	1	2			2	1427	C3.3	10105
20	0507	0511	0545	2-	3					2	0508	M1.5	10126
20	0646	0708U	0842	2	1			1			No flare		
20	0924	0931	1002	3	5	1	2	1		6	0921	M1.8	10126
20	1112	1116	1126	1-	1					1	1108	C2.1	10126
20	1335	1345	1442	1	1			1			1323	C2.1	
21	1658	1704	1737	2-	3					4	1656	C2.6	10119
22	0547	0552	0616	1+	3					2	0547	C2.4	10119
22	0842	0850U	0912	1	1			1			No flare		
23	1000	1004	1031	1	1			1			*		
23	1311	1322	1416	1	1			1			No flare		
24	0943	0956	1125	2	1			1			No flare		
24	1557	1603	1648	2-	3					3	1555	C3.1	10119
25	1602	1606	1653	2+	1					1	1558	C2.0	
25	1723	1729	1816	2+	1					1	1721	C2.2	
26	0910	0916	0932	1	1			1			No flare		
26	0932	0938	1020	2	1			1			1002	C1.3	10132
27	0806	0830	0933	2	3			1		4	0808	C4.8	10134
27	1249	1255	1335	2-	5			1		1	1259	M1.8	10134
27	1303	1313	1416	3	5	1	2	1		10	1259	M1.8	10134
27	1443	1455	1520	2-	5			1		1	*		
27	1514	1521	1611	1	1			1			No flare		
27	1639	1653	1744	2	3					4	1639	C3.2	10134
27	1900	1906	1934	2-	3					3	1859	C3.4	10134
27	1936	1943	2037	2	3					5	1933	M1.4	10134
28	1042	1052	1107	1-	5	1	2			2	1035	C3.4	10134
28	1254	1312	1413	1	1			1			No flare		
28	1415	1429	1523	1	1			1			*		
29	0635	0640	0729	2	5					5	0632	M2.6	10134
29	0850	0856	0913	2	5	1		1		8	0837	C7.8	10125
29	1445	1450	1502	1-	5	1	1			8	1444	C9.3	10134
29	2324	2330	2348	1	1					1	2320	C5.3	10134
30	0146	0151	0232	2	3					2	0142	M2.1	10134
30	0527	0532	0539	1-	1					1	0526	C5.3	10134
30	0534	0552	0624	1+	3			1		1	0541	C5.1	10134
30	0636	0639	0707	1+	3					2	0633	C3.2	10134
30	0711	0724	0750	1	1			1			No flare		
30	0805	0821	0846	1	3			1		2	0803	C2.1	10134
30	0915	0919	0945	1+	1					1	0915	C2.2	10134
30	1859	1903	1917	1	1					1	1854	C2.2	10134

* = no flare patrol.

OBSERVATORIES REPORTING FOR SEPTEMBER 2002

Alberta, Canada	SES	Merja, 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
Edenvale, Rep of S. Africa	SES	Torrington, Connecticut, USA	SES
Hoogstraten, Belgium	SES	Udine City, Italy	SES
Isola del Gran Sasso, Italy	SES	Upice, Czech Republic	SEA
Marlborough, Massachusetts, USA	SES	Villiersdorp, South Africa	SES
Milan, Italy	SES		

Observations are not necessarily continuous.