X - R A Y S O L A R F L A R E S

SEPTEMBER 2005

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Xray	Total Integrated Flux(1)	Total Area(2)	Total(3) Intensity
GOES	01	2253	2321	2356	S17	E12	10806			63	B 4.5	1.4E-03	7.8E+02	1.7E+03
GOES	02	0532	0536	0540	N12	W35	10803			8	B 1.3	5.1E-05	1.8E+02	3.4E+02
GOES		1123	1132	1144						21	B 1.9	1.9E-04		
GOES		1337	1341	1347						10	B 1.3	6.4E-05		
GOES		2017	2022	2032						15	B 1.4	1.0E-04		
GOES	03	0405	0410	0413	S11	W09	10805			8	B 6.1	1.6E-04	9.0E+02	3.4E+03
GOES	04	1408	1506	1621	N13	W72	10803			133	C 2.0	1.0E-02	5.8E+03	2.0E+04
GOES	05	0853	1041	1220						207	C 2.7	1.8E-02		
GOES	06	0749	1120	1206						257	C 1.3	1.5E-02T		
GOES		1452	1648	1728						156	C 1.6	1.0E-02		
GOES		1932	2202	2444						312	M 1.4	1.9E-01T		
GOES	07	0959	1003	1007	S12	E85				8	C 2.3	9.3E-04	5.5E+03	1.5E+04
GOES		1119	1123	1127	S11	E83				8	C 2.4	1.0E-03	4.8E+03	1.4E+04
GOES		1234	1244	1249	S12	E82				15	C 9.6	5.9E-03	6.3E+03	2.8E+04
GOES		1423	1426	1430						7	C 1.7	6.5E-04		
GOES		1717	1740	1803	S11	E77	10808			46	X17.0	2.6E00	1.3E+05	1.2E+06
GOES	08	1058	1117	1125	S12	E75	10808			27	C 2.9	3.2E-03	5.4E+03	1.7E+04
GOES		1255	1258	1302	S12	E75	10808			7	C 2.0	6.9E-04	5.4E+03	1.8E+04
GOES		1433	1436	1442	S11	E72	10808			9	C 4.0	1.8E-03	7.0E+03	3.0E+04
GOES		1449	1452	1456	S12	E73	10808			7	C 1.9	7.3E-04	5.9E+03	1.9E+04
GOES		1601	1609	1618	S12	E74	10808			17	C 4.2	3.5E-03	5.4E+03	2.0E+04
GOES		1649	1703	1711	S12	E74	10808			22	M 2.1	1.4E-02	7.3E+03	4.3E+04
GOES		2023	2029	2041	S12	E70	10808			18	M 2.1	1.4E-02	8.2E+03	4.4E+04
GOES		2052	2106	2117	S12	E75	10808			25	X 5.4	3.8E-01	4.1E+04	4.1E+05
GOES	09	0208	0219	0229	S13	E68	10808			21	M 1.0	8.8E-03	1.1E+04	4.2E+04
GOES		0233	0236	0239	S12	E68	10808			6	M 1.1	3.9E-03	1.1E+04	4.4E+04
GOES		0243	0300	0307	S12	E68	10808			24	X 1.1	8.4E-02	2.1E+04	1.8E+05
GOES		0446	0503	0512			10808			26	M 1.8	2.5E-02		
GOES		0532	0548	0600	S13	E71	10808			28	M 6.2	8.0E-02	1.7E+04	1.4E+05
GOES		0822	0826	0829	S13	E66	10808			7	C 3.7	1.4E-03	7.8E+03	2.3E+04
GOES		0914	0918	0922	S12	E64	10808			8	C 3.1	1.4E-03	5.6E+03	1.7E+04
GOES		0926	0931	0941	S12	E64	10808			15	C 4.8	3.6E-03	5.3E+03	2.0E+04
GOES		0942	0959	1008	S11	E66	10808			26	X 3.6	2.3E-01	3.3E+04	3.3E+05
GOES		1233	1247	1252	S12	E62	10808			19	C 3.0	2.8E-03	7.8E+03	2.0E+04
GOES		1518	1526	1528	S11	E59	10808			10	C 4.2	1.0E-03	4.0E+03	1.6E+04
GOES		1537	1543	1548	S11	E60	10808			11	C 2.8	1.4E-03	3.3E+03	1.1E+04
GOES		1633	1638	1647	S11	E60	10808			14	C 1.0	7.0E-04	1.8E+03	4.7E+03
GOES		1732	1751	1810	S11	E60	10808			38	M 1.9	2.6E-02	7.9E+03	4.4E+04
GOES		1913	2004	2036	S12	E67	10808			83	X 6.2	1.7E00	7.4E+04	7.7E+05
GOES	10	0606	0614	0617			10808			11	M 3.7	1.7E-02		
GOES		0859	0907	0931	S12	E51	10808			32	M 1.9	3.0E-02	1.2E+04	6.7E+04
GOES		1024	1028	1034	S12	E51	10808			10	C 7.6	3.8E-03	8.4E+03	3.8E+04
GOES		1300	1347	1401	S12	E49	10808			61	C 7.8	2.1E-02	8.7E+03	3.8E+04
GOES		1544	1550	1558	S12	E46	10808			14	C 7.1	4.4E-03	8.3E+03	3.5E+04
GOES		1634	1643	1651	S11	E47	10808			17	X 1.1	6.8E-02	1.9E+04	1.6E+05
GOES		1910	1936	1950	S12	E45	10808			40	M 4.1	5.8E-02	1.4E+04	1.0E+05
GOES		2130	2211	2243	S13	E47	10808			73	X 2.1	6.4E-01	3.7E+04	3.8E+05
GOES	11	0229	0235	0240	S12	E41	10808			11	M 3.4	1.5E-02	1.8E+04	9.3E+04
GOES		0609	0618	0625	S13	E41	10808			16	C 7.1	5.6E-03	1.2E+04	3.6E+04
GOES		0706	0710	0717	S13	E41	10808			11	C 4.4	2.6E-03	1.1E+04	2.8E+04
GOES		1244	1312	1353			10808			69	M 3.0	9.5E-02		
GOES		2029	2040	2049						20	M 1.3	9.7E-03		
GOES		2205	2208	2211						6	C 1.9	6.3E-04		
GOES		2212	2215	2218			10808			6	C 6.5	1.6E-03		
GOES		2321	2325	2331			10808			10	C 2.0	1.1E-03		
GOES	12	0045	0049	0053						8	C 3.3	1.1E-03		
GOES		0242	0248	0253						11	C 2.0	1.2E-03		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Xray	Total Integrated Flux(1)	Total Area(2)	Total(3) Intensity
GOES	12	0449	0505	0527						38	M 1.5	2.6E-02		
GOES		0656	0701	0705			10808			9	M 1.3	3.9E-03		
GOES		0837	0903	0920			10808			43	M 6.1	9.8E-02		
GOES		1349	1353	1408						19	B 9.9	9.4E-04		
GOES		1533	1537	1542						9	C 1.1	4.9E-04		
GOES		1629	1633	1635						6	C 1.1	3.2E-04		
GOES		1635	1638	1640						5	C 1.2	3.1E-04		
GOES		1836	1839	1845						9	B 7.5	3.7E-04		
GOES		1928	1940	1942						14	C 3.2	1.4E-03		
GOES		2005	2009	2011			10808			6	M 1.5	3.1E-03		
GOES		2207	2225	2242						35	C 7.2	1.1E-02		
GOES		2257	2301	2303			10808			6	C 5.6	1.7E-03		
GOES		2312	2317	2323						11	C 5.5	2.9E-03		
GOES	13	0053	0058	0102			10808			9	C 4.3	1.9E-03		
GOES		0321	0327	0331			10808			10	C 3.4	1.3E-03		
GOES		0357	0400	0402						5	C 1.5	4.0E-04		
GOES		0415	0418	0420						5	C 1.9	4.8E-04		
GOES		0437	0445	0454			10808			17	C 5.1	4.0E-03		
GOES		0631	0635	0637			10808			6	C 1.2	3.8E-04		
GOES		0824	0828	0831			10808			7	C 1.8	5.9E-04		
GOES		1041	1121	1124						43	M 1.3	8.3E-03		
GOES		1311	1343	1353			10808			42	C 4.5	9.5E-03		
GOES		1849	1905	1915			10808			26	C 2.9	3.3E-03		
GOES		1919	1927	2057			10808			98	X 1.5	5.5E-01		
GOES		2315	2322	2330			10808			15	X 1.7	9.3E-02		
GOES	14	0414	0419	0425			10808			11	C 3.8	2.1E-03		
GOES		0656	0703	0708			10808			12	C 5.2	2.9E-03		
GOES		0859	0904	0908						9	C 2.2	1.0E-03		
GOES		1005	1038	1054						49	M 4.6	4.9E-02		
GOES		1247	1257	1301						14	C 3.4	1.6E-03		
GOES		1544	1549	1554						10	B 8.3	4.1E-04		
GOES		1910	1913	1916						6	B 6.9	2.1E-04		
GOES		1922	1927	1934			10808			12	C 4.4	2.2E-03		
GOES		2037	2118	2132			10808			55	C 4.3	6.0E-03		
GOES		2247	2312	2322			10808			35	C 5.8	9.0E-03		
GOES		2338	2342	2346			10808			8	C 3.7	1.5E-03		
GOES	15	0051	0119	0146			10808			55	C 8.5	1.7E-02		
GOES		0152	0212	0218						26	M 1.3	1.3E-02		
GOES		0457	0500	0502			10808			5	C 2.6	4.7E-04		
GOES		0644	0653	0656			10808			12	C 1.8	7.5E-04		
GOES		0723	0733	0744						21	B 8.1	8.5E-04		
GOES		0830	0838	0846			10808			16	X 1.1	5.6E-02		
GOES		1037	1042	1046						9	C 1.0	5.1E-04		
GOES		1433	1437	1442			10808			9	C 1.0	4.1E-04		
GOES		1444	1517	1531			10808			47	C 7.1	1.2E-02		
GOES		1532	1535	1537						5	C 5.2	1.4E-03		
GOES		1614	1620	1624						10	C 1.1	5.7E-04		
GOES		1628	1651	1702			10808			34	C 4.8	6.3E-03		
GOES		1821	1830	1838			10808			17	C 2.3	1.5E-03		
GOES		1855	1910	1926			10808			31	M 1.0	1.4E-02		
GOES		2035	2039	2041						6	C 1.5	3.0E-04		
GOES		2156	2200	2205						9	C 3.8	1.4E-03		
GOES	16	0141	0149	0156			10808			15	M 4.4	2.0E-02		
GOES		0520	0523	0525			10808			5	C 1.1	2.8E-04		
GOES		0852	0858	0903			10808			11	C 1.2	6.1E-04		
GOES		1055	1058	1100						5	B 4.3	1.1E-04		
GOES		1105	1124	1133						28	B 8.1	1.1E-03		
GOES		1308	1313	1315						7	C 1.5	4.6E-04		
GOES		1350	1353	1356						6	B 6.9	2.2E-04		
GOES		1436	1445	1500			10808			24	C 6.1	5.6E-03		
GOES		1509	1515	1534			10808			25	C 7.9	1.0E-02		
GOES		1717	1722	1725						8	B 7.7	2.8E-04		
GOES		1735	1748	1810			10808			35	M 1.3	1.8E-02		
GOES		1918	1936	1948			10808			30	M 3.5	3.1E-02		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Xray	Total Integrated Flux(1)	Total Area(2)	Total(3) Intensity
GOES	16	2333	2339	2342			10808			9	C 6.2	1.7E-03		
GOES	17	0207	0212	0218			10808			11	C 2.0	9.9E-04		
GOES		0415	0419	0425						10	B 8.3	4.4E-04		
GOES		0432	0449	0508			10808			36	C 3.3	5.0E-03		
GOES		0558	0605	0615			10808			17	M 9.8	5.3E-02		
GOES		0917	0920	0923						6	C 1.2	4.1E-04		
GOES		0934	0939	0948						14	C 1.5	1.1E-03		
GOES		1033	1036	1039						6	C 2.5	7.8E-04		
GOES		1458	1504	1506						8	C 1.5	4.4E-04		
GOES		1531	1536	1540						9	B 7.3	3.3E-04		
GOES		1656	1659	1701						5	B 5.2	1.3E-04		
GOES		1809	1814	1818						9	B 7.4	3.2E-04		
GOES		2025	2029	2036						11	B 6.4	3.7E-04		
GOES		2212	2217	2220			10808			8	B 9.9	3.6E-04		
GOES		2319	2322	2324						5	B 4.3	1.2E-04		
GOES	18	0141	0144	0146			10808			5	B 7.2	1.9E-04		
GOES		0157	0201	0204						7	B 5.3	2.0E-04		
GOES		0424	0433	0438						14	C 3.7	1.9E-03		
GOES		0454	0503	0529						35	C 1.8	3.2E-03		
GOES		1109	1113	1117						8	B 5.0	2.1E-04		
GOES		1207	1214	1217						10	C 1.1	5.2E-04		
GOES		2038	2046	2059						21	B 8.7	8.8E-04		
GOES		2353	2403	2417			10808			24	B 8.5	1.0E-03		
GOES	19	0339	0350	0416						37	C 3.8	5.8E-03		
GOES		1636	1642	1646						10	B 3.2	1.6E-04		
GOES		1728	1731	1735						7	B 3.2	1.1E-04		
GOES		2014	2022	2030						16	C 1.2	8.2E-04		
GOES	20	0820	0844	0856						36	C 1.2	1.7E-03		
GOES		1145	1151	1207						22	B 4.9	5.3E-04		
GOES		1446	1455	1503						17	B 8.9	7.1E-04		
GOES		2126	2134	2141						15	B 3.6	2.7E-04		
GOES		2300	2305	2310						10	B 4.3	2.0E-04		
GOES	21	0442	0448	0457						15	B 2.5	2.0E-04		
GOES		0657	0703	0710						13	B 2.5	1.7E-04		
GOES		0853	0900	0906						13	B 9.5	5.0E-04		
GOES		2109	2115	2120						11	B 3.1	1.6E-04		
GOES		2347	2401	2429						42	B 3.7	7.8E-04		
GOES	22	0128	0134	0139						11	B 4.9	2.2E-04		
GOES		0141	0145	0148						7	B 3.5	1.3E-04		
GOES		0642	0733	0818						96	B 3.5	1.5E-03		
GOES		1427	1431	1435						8	B 1.2	5.0E-05		
GOES		1641	1644	1648						7	B 1.2	4.7E-05		
GOES		1703	1706	1709						6	B 1.6	4.4E-05		
GOES	23	0548	0559	0608			10810			20	C 1.5	1.1E-03		
GOES		1703	1708	1711						8	B 1.3	5.3E-05		
GOES	27	0723	0732	0738						15	B 1.3	1.1E-04		

Note 1: Total integrated flux computed from the event start time to end if available (units=J/m*2).

Note 2: Total area is derived from SXI imagery in units of squared arc seconds of the largest flaring area.

Note 3: Total intensity is derived from SXI imagery in units of data numbers/second of the largest flaring area.

TABLE FORMAT CHANGE: Data are from the GOES full disk xray monitor supplemented with Solar Xray Imager (SXI) data since January, 2004. Positions, areas, and intensities are taken from SXI imagery using the largest flare event on the disk. Only the largest event is selected during multiple flares on the disk.