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

APRIL 2005

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	03	0337	0349	0356	S05	E79				19	B 1.2	1.3E-04	1.3E+02	2.1E+02
GOES		1716	1723	1729	S06	W16	10747			13	B 2.6	1.4E-04	3.8E+02	8.7E+02
GOES		2228	2239	2253	S06	W18	10747			25	B 2.7	3.1E-04	5.5E+02	1.5E+03
GOES	04	0212	0223	0235	S06	W21	10747			23	B 1.6	1.9E-04	4.0E+02	8.1E+02
GOES		0346	0349	0352	S06	W23	10747			6	B 1.4	4.3E-05	1.0E+02	1.8E+02
GOES		0648	0711	0717	S06	W24	10747			29	B 1.9	2.5E-04	2.8E+02	5.5E+02
GOES		1247	1251	1253	S06	W26	10747			6	B 2.9	6.3E-05	6.0E+02	1.6E+03
GOES		2040	2044	2047						7	B 1.3	4.4E-05		
GOES	05	0445	0449	0451						6	B 3.3	7.2E-05		
GOES		0756	0801	0805	S06	W38	10747			9	B 2.0	8.7E-05	2.8E+02	6.2E+02
GOES		1222	1226	1232	S06	W41	10747			10	B 1.4	7.6E-05	2.5E+02	5.0E+02
GOES		1709	1713	1718	S06	W43	10747			9	B 6.7	2.2E-04	7.0E+02	2.1E+03
GOES		1906	1914	1918	S06	W45	10747			12	B 2.0	1.3E-04	4.3E+02	8.6E+02
GOES		2001	2007	2019	S05	W46	10747			18	C 1.1	9.9E-04	1.9E+03	6.0E+03
GOES	06	0357	0400	0403						6	B 1.0	3.5E-05		
GOES		0410	0433	0435	S05	W50	10747			25	B 2.0	2.2E-04	2.3E+02	4.0E+02
GOES		0446	0511	0530						44	B 7.3	1.2E-03		
GOES		0548	0605	0621	S06	W51	10747			33	C 1.0	1.5E-03	2.3E+03	8.3E+03
GOES		0631	0636	0641	S06	W51	10747			10	C 1.6	6.6E-04	2.8E+03	1.1E+04
GOES		0805	0809	0816	S06	W52	10747			11	B 4.2	2.0E-04	6.3E+02	1.3E+03
GOES		1000	1004	1008						8	B 1.3	6.0E-05		
GOES		1550	1555	1558	S04	E70	10750			8	B 2.3	8.2E-05	7.5E+01	1.3E+02
GOES		2346	2356	0012	S09	E64	10750			26	B 3.3	4.4E-04	3.5E+02	6.0E+02
GOES	07	0248	0257	0303	S04	E64	10750			15	B 5.6	3.7E-04	8.0E+02	2.0E+03
GOES		1230	1235	1239	S09	E57	10750			9	B 1.3	5.7E-05	5.0E+01	8.5E+01
GOES		1548	1553	1602	S38	W90				14	B 1.3	1.0E-04	7.5E+01	2.0E+02
GOES	09	0712	0719	0733			10751			21	B 1.9	2.1E-04		
GOES		0821	0827	0836	S07	W63	10751			15	B 2.6	2.1E-04	6.3E+02	1.4E+03
GOES		1200	1222	1227	S06	W65	10751			27	B 8.2	5.1E-04	1.3E+03	4.3E+03
GOES		1318	1322	1348	S07	W66	10751			30	B 2.1	3.4E-04	6.5E+02	1.4E+03
GOES		1429	1441	1447	S07	W67	10751			18	B 4.4	3.5E-04	1.2E+03	3.5E+03
GOES		1525	1530	1542			10751			17	B 1.2	1.1E-04		
GOES		1550	1603	1610	S06	W68	10751			20	B 2.3	2.2E-04	7.0E+02	1.5E+03
GOES		1727	1739	1750	S06	W69	10751			23	B 2.2	2.5E-04	7.3E+02	1.5E+03
GOES		1845	1850	1853	S06	W71	10751			8	B 2.7	1.0E-04	7.5E+02	1.7E+03
GOES		2333	0036	0119						106	B 8.9	2.9E-03		
GOES	10	0220	0224	0229	S06	W77	10751			9	B 1.9	9.5E-05	9.5E+02	2.0E+03
GOES		0547	0554	0602	S07	W78	10751			15	B 1.6	1.2E-04	6.8E+02	1.3E+03
GOES		0718	0722	0729	S06	W79	10751			11	B 1.9	1.2E-04	9.3E+02	1.9E+03
GOES		0913	0925	0931	S06	W79	10751			18	B 6.7	3.8E-04	1.6E+03	4.8E+03
GOES		1019	1023	1029	S06	W81	10751			10	B 2.7	1.5E-04	1.3E+03	3.0E+03
GOES		1058	1109	1126	S05	W82	10751			28	B 5.1	7.3E-04	2.0E+03	5.0E+03
GOES		1348	1354	1358	S06	W82	10751			10	B 3.6	1.8E-04	1.2E+03	2.8E+03
GOES		1430	1509	1521	S06	W83	10751			51	B 2.8	6.7E-04	8.8E+02	1.9E+03
GOES		1521	1524	1526	S06	W83				5	B 3.3	8.4E-05	9.3E+02	2.1E+03
GOES		1553	1557	1600						7	B 2.6	9.5E-05		
GOES		1620	1624	1626	S06	W85	10751			6	B 3.7	1.0E-04	1.0E+03	2.3E+03
GOES		1657	1702	1704	S06	W85	10751			7	B 5.2	1.4E-04	8.8E+02	1.8E+03
GOES		1741	1745	1747	S06	W86	10751			6	B 2.8	8.7E-05	1.2E+03	2.5E+03
GOES		1800	1814	1836	N01	E90				36	B 8.2	1.3E-03	1.1E+03	2.5E+03
GOES		2004	2007	2009	S05	W88	10751			5	B 2.3	6.0E-05	6.5E+02	1.2E+03
GOES	11	0112	0117	0120	S06	W88	10751			8	B 3.0	1.1E-04	5.0E+01	8.4E+01
GOES		0201	0204	0206	S06	W90	10751			5	B 5.4	1.1E-04	5.3E+02	1.2E+03
GOES		0248	0253	0255	S06	W90	10751			7	C 1.0	2.5E-04	8.0E+02	2.4E+03
GOES		0448	0501	0515						27	B 4.8	6.5E-04		
GOES		0602	0606	0612	S09	W90	10751			10	B 2.6	1.4E-04	2.0E+02	3.7E+02
GOES		0823	0828	0830	S06	W90	10751			7	B 7.8	1.8E-04	1.3E+02	2.2E+02
GOES		1217	1222	1235						18	B 1.8	1.7E-04		
GOES		1524	1528	1533	N01	E86				9	B 2.5	1.2E-04	2.0E+02	3.5E+02
GOES		1842	1845	1928						46	B 2.9	7.2E-04		
GOES	12	0015	0020	0031	N02	E84				16	B 2.0	1.8E-04	2.5E+02	4.6E+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	12	0142	0153	0217	N02	E84				35	B 7.9	1.3E-03	1.8E+03	5.1E+03
GOES		0349	0354	0358	N02	E80				9	B 2.3	1.1E-04	3.5E+02	6.7E+02
GOES		0613	0618	0623	N02	E79				10	B 2.8	1.3E-04	3.5E+02	6.9E+02
GOES		0714	0743	0759	N01	E81				45	B 2.2	5.6E-04	3.0E+02	5.5E+02
GOES		0928	0934	0939	N02	E77				11	B 2.4	1.3E-04	2.5E+02	4.9E+02
GOES		1035	1039	1049	N02	E77				14	B 4.4	2.7E-04	6.8E+02	1.6E+03
GOES		1711	1721	1729	N01	E75	10752			18	C 2.0	1.2E-03	2.0E+03	9.2E+03
GOES	14	0246	0250	0303			10752			17	B 1.3	1.2E-04		
GOES		1011	1017	1023	N03	E51	10752			12	B 2.9	1.5E-04	6.0E+02	1.4E+03
GOES		1043	1046	1048	N03	E50	10752			5	B 1.0	2.6E-05	5.0E+01	8.5E+01
GOES		1820	1823	1825	S08	E53	10754			5	B 1.7	3.9E-05	1.5E+02	2.9E+02
GOES	16	0833	0838	0845	S14	E82				12	B 3.0	1.5E-04	1.5E+02	3.0E+02
GOES		1316	1344	1352						36	B 2.7	3.7E-04		
GOES		1526	1530	1535						9	B 1.1	5.4E-05		
GOES		1614	1627	1638	S13	E86				24	B 7.7	7.1E-04	1.2E+03	3.9E+03
GOES		2130	2136	2143	S13	E86				13	B 3.2	2.2E-04	7.0E+02	1.8E+03
GOES	17	0134	0144	0152	S12	E86	10755			18	C 3.3	2.0E-03	2.4E+03	1.4E+04
GOES		0248	0251	0254	N05	E09	10752			6	B 1.2	3.4E-05	7.5E+01	1.4E+02
GOES		0319	0322	0324						5	B 1.0	2.5E-05		
GOES		0719	0723	0728						9	B 1.2	5.4E-05		
GOES		1212	1224	1233	N03	E09	10752			21	C 1.2	1.0E-03	2.1E+03	6.1E+03
GOES		1242	1249	1255	S12	E81	10755			13	C 2.1	1.4E-03	2.2E+03	1.2E+04
GOES		2046	2107	2115	S12	E76	10755			29	C 4.6	4.5E-03	3.3E+03	2.3E+04
GOES	18	0436	0440	0442	S11	E75	10755			6	B 1.3	3.4E-05	7.5E+01	1.5E+02
GOES		0557	0600	0602			10755			5	B 1.4	2.8E-05		
GOES		1436	1439	1443			10752			7	B 1.0	3.4E-05		
GOES		1453	1501	1508	N02	W07	10752			15	B 3.7	2.3E-04	9.0E+02	2.4E+03
GOES		2002	2006	2010						8	B 1.0	4.2E-05		
GOES		2106	2111	2115	N02	W11	10752			9	B 2.5	9.5E-05	4.0E+02	9.4E+02
GOES		2252	2255	2258	S09	W02	10754			6	B 1.2	3.4E-05	2.3E+02	4.5E+02
GOES	19	2141	2217	2245	S12	E57	10755			64	B 8.0	2.4E-03	2.3E+03	6.3E+03
GOES	22	0248	0253	0300	S08	W45	10754			12	B 1.1	6.7E-05	1.8E+02	3.3E+02
GOES	23	0051	0115	0209						78	B 1.8	7.2E-04		
GOES		2026	2108	2119						53	B 3.0	7.0E-04		
GOES		2330	2336	0013	S10	E90				43	B 2.0	4.7E-04	1.5E+02	2.5E+02
GOES	24	0145	0155	0201	S10	E85				16	B 3.7	2.7E-04	7.3E+02	1.5E+03
GOES		1213	1222	1226	S06	E87				13	B 3.6	2.3E-04	1.7E+03	3.6E+03
GOES		1315	1320	1324	S05	E87				9	B 2.3	1.1E-04	4.8E+02	8.8E+02
GOES		1723	1732	1745	S05	E90				22	B 5.7	6.1E-04	2.0E+03	4.6E+03
GOES	25	0146	0150	0157						11	B 1.5	9.0E-05		
GOES		0702	0706	0713	S05	E83				11	B 7.1	3.4E-04	1.7E+03	4.8E+03
GOES		0901	0905	0907	S06	E80				6	B 1.8	5.5E-05	2.0E+02	3.4E+02
GOES		2216	2225	2317	S05	E77	10756			61	B 2.3	7.4E-04	9.0E+02	1.7E+03
GOES	26	0008	0011	0014	S05	E75	10756			6	B 1.9	6.3E-05	6.5E+02	1.3E+03
GOES		0216	0225	0230	S05	E72	10756			14	C 1.2	6.1E-04	2.5E+03	7.6E+03
GOES		0309	0317	0329						20	B 3.6	3.9E-04		
GOES		0419	0441	0456	S05	E71	10756			37	C 5.3	6.2E-03	5.1E+03	2.8E+04
GOES		0528	0533	0544	S05	E72	10756			16	C 1.8	1.5E-03	4.0E+03	1.6E+04
GOES		0817	0824	0833	S05	E70	10756			16	B 6.2	4.7E-04	1.9E+03	4.6E+03
GOES		1236	1242	1246	S04	E66	10756			10	B 4.4	2.0E-04	8.5E+02	1.8E+03
GOES		1400	1404	1409						9	B 1.8	8.8E-05		
GOES		1533	1543	1602	S06	E68	10756			29	B 2.2	3.4E-04	3.3E+02	6.0E+02
GOES		1807	1814	1819	S04	E62	10756			12	B 5.5	2.5E-04	1.0E+03	2.5E+03
GOES		1940	2005	2027	S05	E66	10756			47	C 1.8	3.3E-03	3.1E+03	1.0E+04
GOES		2328	2333	2337	S09	E57	10756			9	B 2.0	8.9E-05	1.8E+02	3.1E+02
GOES	27	1004	1008	1012						8	B 1.4	6.3E-05		
GOES		1914	1922	1934	S06	E52	10756			20	B 2.9	3.0E-04	1.0E+02	1.7E+02

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APRIL 2005

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	27	2002	2005	2008						6	B 2.0	6.3E-05		
GOES		2043	2055	2107	S08	E47	10756			24	B 4.3	4.5E-04	2.8E+02	5.8E+02
GOES		2215	2219	2222	S04	E45	10756			7	B 4.3	1.1E-04	4.5E+02	1.1E+03
GOES	28	0135	0139	0146						11	B 2.6	1.6E-04		
GOES		0223	0236	0250	S05	E46	10756			27	C 3.0	3.1E-03	3.8E+03	1.3E+04
GOES		0455	0539	0545	S06	E45	10756			50	B 5.9	8.4E-04	1.0E+03	2.4E+03
GOES	29	0015	0022	0032						17	B 4.8	3.5E-04		
GOES		0259	0304	0309						10	B 1.8	9.7E-05		
GOES		0620	0624	0628	S08	E18	10756			8	B 2.1	9.0E-05	1.0E+02	1.8E+02
GOES		0643	0649	0655	S10	E25	10756			12	B 5.2	2.9E-04	8.8E+02	2.1E+03
GOES		0956	1000	1014	S09	E23	10756			18	B 2.4	2.1E-04	5.0E+01	9.2E+01
GOES		1852	1855	1858	S10	E18	10756			6	B 4.2	1.3E-04	8.5E+02	1.8E+03
GOES		2033	2041	2049			10756			16	C 1.7	1.1E-03		
GOES		2219	2223	2225	S09	E16	10756			6	B 3.2	9.6E-05	3.5E+02	8.6E+02
GOES		2258	2301	2303	S10	E16	10756			5	B 5.0	1.0E-04	5.5E+02	1.6E+03
GOES	30	0040	0043	0046	S09	E15	10756			6	B 4.4	1.2E-04	5.8E+02	1.2E+03
GOES		0129	0132	0139						10	B 2.0	1.1E-04		
GOES		0252	0256	0259	S09	E14	10756			7	B 7.9	2.2E-04	1.2E+03	3.5E+03
GOES		0529	0535	0546	S11	E13	10756			17	B 2.6	2.4E-04	1.5E+02	2.6E+02
GOES		0833	0840	0845	S08	E11	10756			12	B 5.3	3.0E-04	6.8E+02	1.7E+03
GOES		1011	1015	1019	S08	W15	10757			8	B 5.0	1.9E-04	5.0E+02	1.7E+03
GOES		1808	1824	1830	S09	E05	10756			22	C 1.0	6.4E-04	1.2E+03	4.1E+03
GOES		1849	1853	1855	S09	E04	10756			6	B 2.8	8.6E-05	1.0E+02	1.7E+02
GOES		2151	2155	2159	S09	E02	10756			8	B 4.1	1.6E-04	1.0E+02	1.8E+02

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.