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

MARCH 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	1439	1504	1536	N16	E90	10741			57	B 6.8	1.6E-03	1.4E+03	3.3E+03
GOES	04	1305	1316	1321	N15	E80	10741			16	B 2.8	1.8E-04	1.2E+03	2.8E+03
GOES	05	1025	1029	1048	N14	E66	10741			23	B 2.0	2.3E-04	2.3E+02	4.0E+02
GOES		1652	1655	1658	N14	E63	10741			6	B 1.9	4.6E-05	3.3E+02	6.0E+02
GOES		1957	2007	2010	N14	E62	10741			13	C 1.1	4.5E-04	2.3E+03	6.2E+03
GOES	06	0058	0118	0122	N15	E59	10741			24	B 2.7	2.4E-04	1.0E+03	2.2E+03
GOES		0630	0635	0639	N14	E57	10741			9	B 1.0	5.2E-05	5.0E+01	8.4E+01
GOES		0840	0846	0852	N14	E54	10741			12	B 1.7	9.6E-05	1.3E+02	2.1E+02
GOES		1717	1720	1722						5	B 1.1	2.8E-05		
GOES		1820	1825	1827	S06	E82				7	B 3.4	8.4E-05	5.0E+02	1.1E+03
GOES		2132	2138	2143	S76	E90				11	B 1.1	7.1E-05		
GOES	07	1304	1311	1315						11	B 1.1	7.2E-05		
GOES		2019	2023	2025	S07	E67	10742			6	B 2.3	6.0E-05	1.0E+02	1.9E+02
GOES	08	0258	0309	0318	S12	E85	10742			20	B 5.4	4.7E-04	5.5E+02	1.0E+03
GOES		1613	1619	1629	N07	W30				16	B 2.6	2.3E-04		
GOES		1721	1729	1739	S06	E63	10742			18	B 4.7	4.5E-04	6.8E+02	1.3E+03
GOES		2029	2043	2052	S05	W90	10739			23	B 3.7	4.4E-04	7.8E+02	1.8E+03
GOES		2135	2143	2201	S05	W90	10739			26	B 4.7	5.9E-04	9.5E+02	2.3E+03
GOES	09	0133	0136	0138	N14	E82				5	C 1.0	2.1E-04		
GOES		0228	0241	0300	N14	E18	10741			32	C 1.8	2.4E-03	2.9E+03	8.1E+03
GOES		0802	0807	0815	N12	E10	10741			13	B 4.2	2.8E-04	6.3E+02	1.6E+03
GOES		1207	1210	1213	N16	E13	10741			6	B 2.5	8.1E-05	1.3E+02	2.2E+02
GOES		1301	1308	1317	N13	E09	10741			16	B 5.6	4.4E-04	4.8E+02	1.0E+03
GOES		1720	1724	1727	N16	E10	10741			7	B 3.1	1.2E-04	2.5E+02	4.8E+02
GOES		2145	2151	2158	N13	E04	10741			13	B 8.3	4.3E-04	1.2E+03	3.3E+03
GOES	10	1136	1142	1144	N12	W07	10741			8	C 7.3	1.3E-03	3.1E+03	2.4E+04
GOES		1202	1211	1223	N49	E54				21	B 7.0	7.0E-04	3.0E+02	2.4E+03
GOES		1555	1601	1612	N31	E47				17	B 3.1	2.7E-04		
GOES		1837	1842	1848	S04	E33	10742			11	B 6.0	2.7E-04	9.8E+02	2.1E+03
GOES		2026	2036	2055	S04	E33	10742			29	B 7.3	9.4E-04	1.5E+03	4.7E+03
GOES		2239	2244	2251	S04	E31	10742			12	B 3.1	2.0E-04	7.3E+02	1.5E+03
GOES	11	0012	0018	0020	S04	E30	10742			8	B 4.2	1.7E-04	1.1E+03	2.7E+03
GOES		0030	0051	0103	N13	W12	10741			33	C 1.2	1.6E-03	2.5E+03	7.3E+03
GOES		1052	1056	1103	S05	E23	10742			11	B 3.5	1.9E-04	5.0E+01	8.5E+01
GOES		1650	1654	1659	S04	E20	10742			9	B 5.4	2.4E-04	8.5E+02	1.9E+03
GOES		1712	1717	1723	S04	E19	10742			11	B 5.3	3.1E-04	1.0E+03	2.3E+03
GOES		2353	2356	2359						6	B 2.3	7.5E-05		
GOES	12	0530	0541	0557						27	B 6.9	9.2E-04		
GOES		0607	0610	0613	N09	W33	10741			6	B 7.7	2.2E-04	6.0E+02	2.4E+03
GOES		0836	0906	0917	N14	W30	10741			41	C 1.7	2.0E-03	2.2E+03	9.7E+03
GOES		1324	1328	1332	S04	E07	10742			8	B 3.7	1.5E-04	2.5E+02	4.6E+02
GOES		1648	1655	1659	N10	W41	10741			11	B 8.6	3.5E-04	6.5E+02	2.5E+03
GOES	13	0251	0256	0300	S04	W00	10742			9	B 6.4	2.2E-04	7.8E+02	2.0E+03
GOES		0343	0347	0349	S04	W00	10742			6	B 3.2	9.7E-05	3.0E+02	6.1E+02
GOES		0434	0438	0440						6	B 4.5	1.4E-04		
GOES		0535	0538	0540						5	B 2.4	6.4E-05		
GOES		0802	0818	0826	N14	W43	10741			24	C 1.2	1.0E-03	1.3E+03	5.5E+03
GOES		0827	0830	0833	S05	W03	10742			6	C 1.0	3.0E-04	1.0E+03	3.1E+03
GOES		1149	1153	1159	S05	W04	10742			10	B 4.4	2.2E-04	6.0E+02	1.3E+03
GOES		1237	1250	1253	N12	W50	10741			16	C 1.0	7.1E-04	1.0E+03	3.9E+03
GOES		1457	1501	1503	N12	W50	10741			6	C 1.1	2.6E-04	4.8E+02	1.1E+03
GOES		1507	1517	1524	S05	W07	10742			17	C 1.5	1.3E-03	1.9E+03	5.9E+03
GOES		1620	1626	1630	S05	W07	10742			10	B 6.3	3.2E-04	1.2E+03	2.8E+03
GOES	14	0238	0242	0244	N14	W54	10741			6	B 3.9	1.1E-04	5.0E+02	1.2E+03
GOES		0332	0419	0435			10742			63	B 6.1	1.8E-03		
GOES		0651	0708	0725	N12	W60	10741			34	C 1.0	1.7E-03	2.2E+03	6.8E+03
GOES		1259	1304	1310	S02	W16	10742			11	B 9.8	4.6E-04	1.0E+03	2.9E+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 15		0354	0411	0437						43	B 4.0	9.4E-04		
GOES		0546	0554	0608						22	B 3.7	4.5E-04		
GOES		0640	0647	0709	N11	W71	10741			29	C 2.0	2.6E-03	2.8E+03	1.1E+04
GOES		1602	1614	1623	N12	W79	10741			21	B 5.5	5.7E-04	7.3E+02	1.7E+03
GOES 16		0522	0528	0532						10	B 4.2	1.9E-04		
GOES		0741	0744	0748						7	B 1.9	7.3E-05		
GOES		1205	1208	1210	S02	W48	10742			5	B 3.5	8.1E-05	3.0E+02	6.5E+02
GOES		1217	1221	1223	S03	W50	10742			6	B 5.1	1.4E-04	7.5E+02	2.3E+03
GOES		1242	1245	1247	S07	W48	10742			5	B 3.1	7.7E-05	4.3E+02	9.1E+02
GOES		1318	1322	1332	S07	W53	10742			14	B 3.0	2.3E-04	2.3E+02	4.6E+02
GOES		1542	1547	1554	S07	W54	10742			12	B 3.8	2.1E-04	4.8E+02	1.0E+03
GOES		1947	1953	1959	S06	W57	10742			12	B 5.9	3.3E-04	7.3E+02	1.8E+03
GOES		2029	2034	2036	S07	W54	10742			7	B 5.3	1.6E-04	7.8E+02	2.0E+03
GOES		2049	2053	2056	S02	W55	10742			7	B 3.6	1.3E-04	1.8E+02	3.3E+02
GOES		2304	2314	2316	S07	W56	10742			12	B 9.8	4.6E-04	2.0E+03	5.3E+03
GOES 17		0101	0106	0111	S06	W60	10742			10	B 6.0	2.9E-04	5.0E+02	1.3E+03
GOES		0201	0204	0207	S11	E05				6	B 3.4	1.0E-04	2.3E+02	5.3E+02
GOES		0244	0250	0257						13	B 3.7	2.5E-04		
GOES		0457	0507	0513			10742			16	B 8.3	5.3E-04		
GOES		0638	0645	0651	S07	W62	10742			13	B 6.4	3.8E-04	8.5E+02	2.4E+03
GOES		0901	0910	0921	S11	W25	10743			20	B 4.4	4.6E-04	2.8E+02	4.8E+02
GOES		1649	1657	1700						11	B 4.4	2.1E-04		
GOES		1916	1924	1933	S06	W71	10742			17	B 3.7	3.2E-04	4.8E+02	9.8E+02
GOES 18		0226	0235	0237	S09	W34	10743			11	C 1.3	4.0E-04	1.6E+03	6.0E+03
GOES		0341	0349	0359	S09	W35	10743			18	B 5.3	5.1E-04	5.0E+02	9.7E+02
GOES		1237	1243	1250	S08	W40	10743			13	B 4.9	3.4E-04	7.5E+02	1.5E+03
GOES		1306	1310	1314	S08	W40				8	B 5.8	2.5E-04	1.3E+03	3.3E+03
GOES		1314	1323	1327	S08	W40	10743			13	B 8.7	5.8E-04	1.6E+03	4.8E+03
GOES		1511	1514	1516	S08	W42	10743			5	B 3.2	8.5E-05	4.3E+02	9.5E+02
GOES		1558	1602	1607	S08	W42	10743			9	B 2.8	1.3E-04	3.0E+02	5.8E+02
GOES		1622	1626	1630	S08	W42	10743			8	B 3.0	1.1E-04	3.3E+02	6.9E+02
GOES		1922	1932	1938	S08	W44	10743			16	B 4.1	3.1E-04	5.8E+02	1.3E+03
GOES 19		0243	0248	0252	S05	W83	10743			9	B 3.5	1.5E-04	5.3E+02	9.2E+02
GOES		0410	0413	0417	S05	W85	10742			7	B 3.5	1.2E-04	1.1E+03	2.4E+03
GOES		0429	0441	0447						18	B 6.6	4.9E-04		
GOES		0656	0707	0711	S09	W52	10743			15	C 2.3	1.1E-03	2.3E+03	1.1E+04
GOES		0754	0758	0801	S06	W85	10742			7	B 3.9	1.4E-04	1.3E+03	3.2E+03
GOES		1718	1722	1726	S07	W90	10743			8	B 1.9	8.6E-05	2.8E+02	4.7E+02
GOES		1746	1801	1807	S08	W59	10743			21	B 8.2	6.3E-04	1.1E+03	3.7E+03
GOES		1939	1946	1955	S07	W90	10742			16	B 2.5	2.1E-04	9.0E+02	1.9E+03
GOES		2012	2023	2032	S07	W90	10742			20	C 2.2	1.7E-03	2.6E+03	1.2E+04
GOES		2317	2323	2331	S08	W60	10743			14	B 3.1	2.3E-04	3.0E+02	5.5E+02
GOES 20		0132	0159	0208	S07	W90	10742			36	C 4.1	3.4E-03	2.9E+03	1.6E+04
GOES		0353	0359	0402	S08	W65	10743			9	B 4.6	2.0E-04	5.3E+02	1.3E+03
GOES		0609	0614	0616	S10	W65	10743			7	C 1.2	2.6E-04	9.3E+02	3.4E+03
GOES		1142	1152	1154			10743			12	C 2.1	4.0E-04		
GOES		1920	1926	1933	S07	W70	10743			13	B 1.3	8.9E-05		
GOES 21		0234	0244	0251	S08	W74	10743			17	B 2.0	1.7E-04	4.5E+02	8.9E+02
GOES		0336	0344	0350	N14	E69				14	B 5.5	3.0E-04	9.0E+02	2.8E+03
GOES		0647	0651	0659	S10	W75				12	B 1.0	6.8E-05	2.8E+02	5.0E+02
GOES		0659	0708	0721	S09	W75	10743			22	B 2.4	2.7E-04	8.3E+02	1.9E+03
GOES		0743	0748	0754	S09	W76	10743			11	B 1.9	9.8E-05	5.5E+02	1.2E+03
GOES		0801	0805	0813	S09	W77	10743			12	B 1.9	1.2E-04	6.8E+02	1.5E+03
GOES		0832	0839	0846	S09	W77	10743			14	B 3.9	2.4E-04	9.8E+02	3.0E+03
GOES		1116	1123	1138	S09	W79	10743			22	B 1.5	1.8E-04	7.3E+02	1.7E+03
GOES		1229	1235	1237	N13	E63				8	B 2.4	7.7E-05	2.3E+02	4.2E+02
GOES		1307	1323	1328	S09	W81	10743			21	B 1.8	2.0E-04	7.3E+02	1.7E+03
GOES		1357	1403	1408	S08	W81	10743			11	B 1.5	8.5E-05	5.8E+02	1.1E+03
GOES		1540	1547	1552	N13	E62	10745			12	C 2.7	1.1E-03	1.9E+03	8.0E+03
GOES		2057	2100	2106						9	B 1.5	7.3E-05		
GOES 22		0006	0010	0015						9	B 1.5	7.6E-05		

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GOES	22	0111	0115	0118	S08	W86	10743			7	B 1.4	4.9E-05	4.0E+02	7.6E+02
GOES		2106	2114	2118	S10	W90	10743			12	B 4.9	2.2E-04	7.5E+02	1.7E+03
GOES		2217	2221	2223	N14	E44	10745			6	B 1.2	3.9E-05	1.5E+02	2.6E+02
GOES	23	0307	0313	0317	N15	E41	10745			10	B 1.7	9.6E-05	1.3E+02	2.1E+02
GOES		0426	0431	0437						11	B 2.8	1.6E-04		
GOES		0505	0515	0521						16	B 1.6	1.4E-04		
GOES		0636	0643	0654	N12	E40	10745			18	B 3.6	3.1E-04	1.1E+03	2.6E+03
GOES		1332	1337	1344	N13	E36	10745			12	B 2.6	1.6E-04	8.8E+02	2.0E+03
GOES		1421	1429	1441	N14	E35	10745			20	B 4.6	4.0E-04	1.3E+03	3.5E+03
GOES		2111	2114	2117	S14	W39	10744			6	B 1.3	3.7E-05	5.0E+01	8.7E+01
GOES		2228	2232	2236	N14	E30	10745			8	B 1.3	5.5E-05	1.5E+02	2.8E+02
GOES	24	0206	0209	0212						6	B 1.0	3.3E-05		
GOES		0858	0901	0904						6	B 1.1	3.5E-05		
GOES		0908	0911	0914						6	B 1.3	3.9E-05		
GOES		1019	1031	1043	N11	E26	10745			24	B 3.5	4.0E-04	3.5E+02	7.5E+02
GOES		1109	1117	1124	N11	E25	10745			15	B 3.8	2.7E-04	3.8E+02	8.4E+02
GOES		1759	1804	1808	S14	W52	10744			9	B 1.8	7.6E-05	3.0E+02	6.3E+02
GOES		1917	1922	1928	S14	W53	10744			11	B 1.3	7.0E-05	1.3E+02	2.2E+02
GOES		2041	2045	2055						14	B 1.1	8.3E-05		
GOES		2221	2239	2255						34	B 1.8	2.9E-04		
GOES		2312	2344	2353	N11	E19	10745			41	C 1.0	1.2E-03	1.5E+03	5.4E+03
GOES	25	0737	0743	0748	N10	E14	10745			11	B 2.8	1.2E-04	4.0E+02	7.7E+02
GOES		1232	1237	1243						11	B 1.4	7.7E-05		
GOES	29	0539	0542	0544						5	B 1.9	4.0E-05		

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.