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

JULY 2007

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	01	0822	0828	0832						10	B 2.2	9.4E-05		
GOES		2144	2149	2153						9	B 2.9	8.3E-05		
GOES	07	0333	0344	0359						26	B 7.5	7.7E-05		
GOES		0738	0744	0748						10	B 1.2	5.9E-05		
GOES		1056	1118	1151						55	B 9.1	2.0E-03		
GOES		1215	1241	1248						33	B 3.8	6.1E-04		
GOES		1317	1322	1329						12	B 4.7	2.5E-04		
GOES		1400	1430	1452						52	C 1.9	3.0E-03		
GOES		1647	1721	1733						46	B 4.0	9.1E-04		
GOES		1844	1851	1901						17	B 2.6	2.0E-04		
GOES		2011	2016	2025						14	B 1.8	1.2E-04		
GOES		2124	2147	2156						32	B 6.9	8.2E-04		
GOES		2310	2313	2316						6	B 1.2	3.6E-05		
GOES		2318	2339	2344						26	B 1.9	2.4E-04		
GOES	08	0023	0036	0044						21	B 2.9	2.5E-04		
GOES		0058	0108	0118						20	B 4.7	4.1E-04		
GOES		0402	0406	0412	S08	E77	10963			10	B 1.1	5.8E-05		
GOES		0541	0548	0553	S07	E77	10963			12	B 2.5	1.3E-04		
GOES		0647	0651	0655						8	B 1.7	6.3E-05		
GOES		0717	0736	0741						24	B 4.0	3.5E-04		
GOES		0811	0827	0835						24	B 4.0	4.2E-04		
GOES		0851	0855	0901						10	B 2.5	1.3E-04		
GOES		1006	1025	1033						27	B 4.3	4.9E-04		
GOES		1120	1127	1137						17	B 3.2	2.9E-04		
GOES		1156	1226	1237						41	B 4.9	1.0E-03		
GOES		1327	1345	1403						36	C 1.1	1.6E-03		
GOES		1504	1507	1510						6	B 1.8	5.8E-05		
GOES		1552	1602	1611						19	C 1.0	8.6E-04		
GOES		1648	1658	1706						18	C 1.8	1.4E-03		
GOES		1754	1757	1759	S07	E71	10963			5	B 9.8	1.8E-04		
GOES		1818	1821	1824	S08	E74	10963			6	B 4.6	1.4E-04		
GOES		1921	1927	1930						9	B 2.7	1.1E-04		
GOES		2019	2022	2024						5	B 1.4	3.8E-05		
GOES		2057	2101	2105						8	B 1.3	5.6E-05		
GOES		2134	2214	2222						48	B 6.7	8.7E-04		
GOES		2313	2316	2319						6	B 2.1	6.5E-05		
GOES	09	0025	0107	0121						56	B 4.7	1.1E-03		
GOES		0127	0134	0139						12	B 7.8	4.6E-04		
GOES		0145	0159	0216						31	C 1.0	1.5E-03		
GOES		0250	0254	0259						9	B 6.3	2.7E-04		
GOES		0432	0436	0439	S07	E62	10963			7	B 5.3	1.6E-04		
GOES		0534	0614	0622	S07	E62	10963			48	C 1.7	1.7E-03		
GOES		0749	0801	0806						17	B 4.7	2.4E-04		
GOES		0847	0920	0939						52	B 5.8	1.2E-03		
GOES		1007	1011	1013						6	B 3.0	8.4E-05		
GOES		1126	1129	1134						8	B 1.6	6.9E-05		
GOES		1143	1146	1148						5	B 1.5	3.9E-05		
GOES		1156	1159	1201						5	B 1.4	3.7E-05		
GOES		1215	1222	1226						11	B 1.9	9.9E-05		
GOES		1301	1305	1307						6	B 1.3	3.9E-05		
GOES		1317	1325	1334						17	B 2.0	1.7E-04		
GOES		1345	1350	1354						9	B 3.8	1.7E-04		
GOES		1440	1526	1538	N00	E63	10963			58	B 4.7	1.0E-03		
GOES		1615	1620	1622	S07	E59	10963			7	B 6.9	1.7E-04		
GOES		1646	1649	1651						5	B 2.7	7.3E-05		
GOES		1657	1701	1704						7	B 2.8	1.1E-04		
GOES		1759	1803	1807	S07	E58	10963			8	B 1.6	6.1E-05		
GOES		1903	1909	1913	S07	E56	10963			10	B 2.9	1.3E-04		
GOES		2106	2116	2122	S07	E54	10963			16	B 3.8	2.5E-04		
GOES		2147	2156	2200						13	B 3.7	2.3E-04		
GOES		2232	2305	2308						36	C 1.3	9.7E-04		
GOES		2346	2352	2354						8	B 2.5	7.5E-05		
GOES	10	0021	0025	0031	S07	E54	10963			10	B 3.3	1.6E-04		
GOES		0053	0101	0111	S06	E52	10963			18	C 3.8	2.1E-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 10		0132	0137	0146					14	C 4.3	2.3E-03		
GOES		0252	0256	0300	S07 E53	10963			8	B 3.1	1.2E-04		
GOES		0329	0333	0343	S07 E53	10963			14	C 4.4	2.3E-03		
GOES		0432	0436	0439					7	B 7.0	2.6E-04		
GOES		0446	0503	0505					19	C 1.2	9.3E-04		
GOES		0539	0544	0548					9	B 2.6	1.1E-04		
GOES		0617	0631	0639	S07 E51	10963			22	C 1.4	1.1E-03		
GOES		0708	0721	0728	S04 E50	10963			20	C 7.4	4.8E-03		
GOES		0739	0748	0752	S04 E49	10963			13	C 2.8	1.7E-03		
GOES		0919	0942	0952					33	B 1.8	2.6E-04		
GOES		1000	1004	1006	S04 E47	10963			6	B 4.4	9.5E-05		
GOES		1032	1040	1055					23	B 5.4	4.6E-04		
GOES		1111	1121	1129	S04 E47	10963			18	C 1.9	1.2E-03		
GOES		1235	1240	1246	S04 E47	10963			11	C 8.2	3.1E-03		
GOES		1511	1516	1522					11	B 2.2	1.0E-04		
GOES		1551	1603	1606					15	B 4.6	1.8E-04		
GOES		1641	1651	1657					16	B 3.2	2.1E-04		
GOES		1713	1719	1724					11	B 1.6	9.7E-05		
GOES		1728	1732	1746					18	B 2.2	2.1E-04		
GOES		1748	1753	1804	S07 E45	10963			16	C 5.2	3.3E-03		
GOES		2050	2101	2106					16	C 1.8	6.4E-04		
GOES		2215	2223	2228	S06 E41	10963			13	B 6.1	2.5E-04		
GOES		2239	2246	2251	S06 E41	10963			12	C 1.0	4.3E-04		
GOES 11		0005	0009	0013	S07 E39	10963			8	B 1.3	5.1E-05		
GOES		0537	0541	0548					11	B 1.1	6.2E-05		
GOES		1002	1020	1032					30	B 2.2	3.5E-04		
GOES		1141	1206	1226					45	B 7.8	1.4E-03		
GOES 14		2215	2219	2224					9	B 1.1	5.2E-05		
GOES 15		1130	1139	1146					16	B 2.6	1.8E-04		
GOES 16		0050	0101	0111	N05 W55	10964			21	B 2.9	2.7E-04		
GOES 18		1350	1354	1400	S03 W64	10963			10	B 1.9	8.3E-05		
GOES 28		0715	0719	0724	S15 E25	10965			9	B 1.4	5.4E-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) from January, 2004, to April 12, 2007. 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.

IMPORTANT NOTE: The xray sensor on GOES 12 was turned off on April 12, 2007, at 2250UT. The GOES SXI instrument is also inoperative. GOES 11 is now primary with GOES 10 backup for xray data. Effective April 13, 2007, xray flare locations will be determined by optical flare reports. Xray event times will still be from the xray data.