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

## MARCH 2006

| 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 | 07 | 1515 | 1614 | 1902 | | | | | | 227 | B 2.1 | 1.9E-03T | | |
| GOES | 11 | 1322 | 1400 | 1451 | S10 | W90 | 10856 | | | 89 | B 3.4 | 1.4E-03 | 6.0E+02 | 1.1E+03 |
| GOES | 14 | 0700 | 0705 | 0710 | S09 | E67 | | | | 10 | B 3.6 | 1.3E-04 | 6.3E+02 | 1.9E+03 |
| GOES | | 1359 | 1405 | 1413 | S09 | E63 | | | | 14 | B 1.7 | 1.1E-04 | 4.5E+02 | 9.5E+02 |
| GOES | | 1553 | 1557 | 1607 | S08 | E61 | 10860 | | | 14 | B 1.5 | 7.6E-05 | 2.3E+02 | 4.8E+02 |
| GOES | 15 | 0340 | 0344 | 0346 | S04 | W90 | 10859 | | | 6 | B 1.2 | 2.6E-05 | 2.5E+02 | 4.6E+02 |
| GOES | | 1043 | 1047 | 1053 | S06 | W90 | 10859 | | | 10 | B 1.5 | 6.9E-05 | 3.5E+02 | 6.9E+02 |
| GOES | | 1115 | 1121 | 1135 | S06 | W90 | 10859 | | | 20 | B 1.1 | 1.1E-04 | 1.3E+02 | 2.1E+02 |
| GOES | 19 | 2302 | 2338 | 2348 | S06 | W12 | 10862 | | | 46 | B 2.2 | 4.2E-04 | 6.8E+02 | 1.3E+03 |
| GOES | 20 | 0426 | 0437 | 0454 | | | 10862 | | | 28 | B 7.1 | 6.1E-04 | | |
| GOES | | 0613 | 0616 | 0620 | | | 10862 | | | 7 | B 1.0 | 3.9E-05 | | |
| GOES | | 0728 | 0732 | 0743 | S06 | W17 | 10862 | | | 15 | B 1.3 | 9.1E-05 | 2.5E+02 | 5.6E+02 |
| GOES | | 0751 | 0757 | 0801 | S06 | W17 | 10862 | | | 10 | B 2.0 | 1.0E-04 | 8.8E+02 | 1.9E+03 |
| GOES | | 0809 | 0813 | 0821 | S06 | W17 | 10862 | | | 12 | B 2.3 | 1.2E-04 | 7.5E+02 | 2.0E+03 |
| GOES | | 0837 | 0843 | 0849 | S06 | W17 | 10862 | | | 12 | B 4.9 | 2.3E-04 | 1.1E+03 | 3.7E+03 |
| GOES | | 1045 | 1048 | 1050 | S05 | W19 | 10862 | | | 5 | B 1.1 | 2.7E-05 | 1.5E+02 | 3.1E+02 |
| GOES | | 1107 | 1110 | 1112 | S06 | W18 | 10862 | | | 5 | B 1.1 | 2.8E-05 | 2.5E+02 | 4.8E+02 |
| GOES | | 1328 | 1336 | 1338 | S06 | W20 | 10862 | | | 10 | B 1.1 | 5.8E-05 | 3.3E+02 | 6.2E+02 |
| GOES | 21 | 0915 | 0944 | 0956 | S07 | W32 | 10862 | | | 41 | C 2.5 | 2.3E-03 | 3.3E+03 | 1.7E+04 |
| GOES | | 1153 | 1158 | 1201 | S06 | W33 | 10862 | | | 8 | B 2.2 | 6.9E-05 | 4.5E+02 | 1.1E+03 |
| GOES | | 1201 | 1204 | 1207 | S06 | W33 | | | | 6 | C 1.3 | 2.7E-04 | 1.5E+03 | 6.8E+03 |
| GOES | | 1628 | 1633 | 1640 | S07 | W35 | 10862 | | | 12 | C 2.4 | 1.1E-03 | 2.4E+03 | 1.0E+04 |
| GOES | | 1717 | 1726 | 1734 | S07 | W36 | 10862 | | | 17 | B 1.1 | 1.0E-04 | 5.0E+01 | 8.2E+01 |
| GOES | | 1753 | 1759 | 1818 | S06 | W37 | 10862 | | | 25 | B 5.3 | 5.0E-04 | 1.1E+03 | 2.9E+03 |
| GOES | | 1835 | 1842 | 1847 | S06 | W37 | 10862 | | | 12 | C 1.2 | 6.2E-04 | 2.2E+03 | 8.0E+03 |
| GOES | | 1913 | 1920 | 1925 | S06 | W37 | 10862 | | | 12 | C 1.1 | 4.1E-04 | 2.0E+03 | 7.0E+03 |
| GOES | | 1943 | 1946 | 1948 | S07 | W37 | 10862 | | | 5 | B 1.4 | 3.6E-05 | 4.5E+02 | 9.9E+02 |
| GOES | | 2054 | 2112 | 2119 | S06 | W38 | 10862 | | | 25 | B 2.7 | 2.6E-04 | 6.3E+02 | 1.1E+03 |
| GOES | | 2120 | 2124 | 2128 | S06 | W39 | 10862 | | | 8 | B 3.7 | 1.4E-04 | 1.1E+03 | 2.6E+03 |
| GOES | | 2205 | 2212 | 2215 | S06 | W39 | 10862 | | | 10 | B 2.1 | 8.8E-05 | 8.5E+02 | 1.7E+03 |
| GOES | | 2227 | 2230 | 2233 | S06 | W39 | 10862 | | | 6 | B 1.7 | 5.5E-05 | 7.0E+02 | 1.4E+03 |
| GOES | | 2258 | 2302 | 2306 | S06 | W39 | 10862 | | | 8 | B 1.8 | 6.9E-05 | 3.5E+02 | 6.2E+02 |
| GOES | | 2320 | 2326 | 2335 | S06 | W39 | 10862 | | | 15 | C 2.1 | 1.2E-03 | 2.9E+03 | 1.1E+04 |
| GOES | 22 | 0038 | 0045 | 0050 | S06 | W41 | 10862 | | | 12 | B 2.6 | 1.6E-04 | 8.5E+02 | 1.8E+03 |
| GOES | | 0059 | 0107 | 0112 | S06 | W41 | 10862 | | | 13 | B 4.6 | 2.5E-04 | 1.3E+03 | 3.5E+03 |
| GOES | | 0201 | 0210 | 0219 | S06 | W41 | 10862 | | | 18 | B 3.6 | 3.3E-04 | 1.3E+03 | 3.4E+03 |
| GOES | | 0235 | 0239 | 0242 | S06 | W42 | 10862 | | | 7 | B 2.6 | 9.1E-05 | 1.0E+03 | 2.3E+03 |
| GOES | | 0535 | 0541 | 0544 | | | | | | 9 | B 1.2 | 6.0E-05 | | |
| GOES | | 0658 | 0720 | 0729 | | | | | | 31 | B 1.8 | 2.9E-04 | | |
| GOES | | 0829 | 0835 | 0840 | | | | | | 11 | B 2.3 | 1.0E-04 | | |
| GOES | | 0909 | 0916 | 0923 | | | | | | 14 | B 1.8 | 1.2E-04 | | |
| GOES | | 1059 | 1104 | 1112 | | | | | | 13 | B 2.8 | 1.6E-04 | | |
| GOES | | 1243 | 1250 | 1258 | | | | | | 15 | B 2.3 | 1.6E-04 | | |
| GOES | | 1538 | 1548 | 1553 | | | | | | 15 | B 2.3 | 1.5E-04 | | |
| GOES | 23 | 0919 | 0926 | 0929 | | | 10862 | | | 10 | B 2.2 | 8.5E-05 | | |
| GOES | | 1046 | 1057 | 1105 | | | | | | 19 | B 2.6 | 2.3E-04 | | |
| GOES | | 1203 | 1210 | 1214 | | | | | | 11 | B 1.4 | 7.7E-05 | | |
| GOES | | 1225 | 1232 | 1240 | | | | | | 15 | B 1.9 | 1.5E-04 | | |
| GOES | | 1300 | 1304 | 1307 | | | | | | 7 | B 1.3 | 4.6E-05 | | |
| GOES | | 1410 | 1423 | 1433 | | | | | | 23 | B 3.6 | 3.6E-04 | | |
| GOES | | 2107 | 2115 | 2123 | S05 | W67 | 10860 | | | 16 | B 5.1 | 3.8E-04 | 2.0E+03 | 5.8E+03 |
| GOES | 24 | 1252 | 1259 | 1304 | | | | | | 12 | B 1.0 | 6.9E-05 | | |
| GOES | 25 | 1715 | 1719 | 1723 | S05 | W90 | 10860 | | | 8 | B 1.1 | 4.7E-05 | 3.5E+02 | 6.7E+02 |
| GOES | 27 | 1817 | 1823 | 1838 | | | | | | 21 | B 1.5 | 1.6E-04 | | |
| GOES | 28 | 0649 | 0653 | 0658 | | | | | | 9 | B 1.0 | 5.3E-05 | | |
| GOES | | 0807 | 0811 | 0816 | | | | | | 9 | B 1.1 | 5.6E-05 | | |

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## MARCH 2006

| 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 | 28 | 1342 | 1349 | 1357 | S07 | E88 | | | | 15 | B 3.3 | 2.2E-04 | 1.3E+03 | 2.7E+03 |
| GOES | | 1554 | 1600 | 1605 | S08 | E86 | 10865 | | | 11 | B 7.4 | 2.9E-04 | 1.6E+03 | 4.6E+03 |
| GOES | | 1759 | 1805 | 1810 | S07 | E86 | 10865 | | | 11 | B 2.3 | 1.1E-04 | 9.8E+02 | 1.9E+03 |
| GOES | 29 | 0602 | 0606 | 0611 | | | | | | 9 | B 1.3 | 6.0E-05 | | |
| GOES | | 0752 | 0755 | 0757 | S12 | E57 | 10865 | | | 5 | B 1.0 | 2.7E-05 | 5.0E+01 | 9.3E+01 |
| GOES | | 1226 | 1231 | 1239 | S06 | E79 | | | | 13 | B 1.3 | 8.8E-05 | 1.0E+02 | 1.7E+02 |
| GOES | | 1321 | 1324 | 1328 | | | | | | 7 | B 1.0 | 3.8E-05 | | |
| GOES | | 2151 | 2235 | 2245 | S10 | E48 | 10865 | | | 54 | B 2.5 | 5.2E-04 | 3.0E+02 | 5.4E+02 |
| GOES | 30 | 0654 | 0658 | 0700 | | | | | | 6 | B 1.0 | 3.5E-05 | | |
| GOES | | 1311 | 1346 | 1406 | | | | | | 55 | B 2.3 | 6.6E-04 | | |
| GOES | | 1502 | 1517 | 1529 | S11 | E38 | 10865 | | | 27 | B 9.0 | 8.7E-04 | 2.3E+03 | 5.9E+03 |
| GOES | | 1701 | 1709 | 1715 | S06 | E64 | 10866 | | | 14 | B 7.1 | 4.0E-04 | 1.7E+03 | 4.2E+03 |
| GOES | | 1821 | 1825 | 1830 | S10 | E33 | 10865 | | | 9 | B 3.3 | 1.2E-04 | 3.5E+02 | 8.0E+02 |
| GOES | | 2201 | 2232 | 2258 | | | | | | 57 | B 2.9 | 7.2E-04 | | |
| GOES | 31 | 0853 | 0858 | 0904 | | | | | | 11 | B 1.1 | 6.6E-05 | | |
| GOES | | 1002 | 1007 | 1012 | | | | | | 10 | B 1.3 | 6.9E-05 | | |
| GOES | | 1622 | 1627 | 1640 | | | | | | 18 | B 1.3 | 1.2E-04 | | |
| GOES | | 1714 | 1748 | 1758 | S12 | E23 | 10865 | | | 44 | B 2.3 | 3.8E-04 | 5.0E+01 | 8.2E+01 |
| GOES | | 2146 | 2149 | 2153 | | | | | | 7 | B 1.0 | 4.0E-05 | | |
| GOES | | 2211 | 2214 | 2217 | | | | | | 6 | B 1.0 | 3.4E-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) 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.

No solar radio bursts at 2800 MHz were reported for March 2006.