

4
Apr 98H α SOLAR FLARES

APRIL 1998

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | NOAA/USAF | | | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | Remarks | |
|-------|------|-------|------------|----------|-----------------|-----------------|------|--------|-----------|---------|------|---------|------|------------------|-----|-----------|---------|----------------------|
| | | | | | | Lat | CMD | Region | | | | | | Mo | Day | Time (UT) | | Apparent (10-6 Disk) |
| 0001 | 01 | 0923 | 0923 | 0934 | S23 | E32 | 8190 | 04 | 3.8 | 11 | SF | | | 17 | | F | | |
| | SVTO | 01 | 0921E | 0925U | 0932 | S23 | E31 | 8190 | 04 | 3.8 | 11D | SF | 2 | E | 17 | | F | |
| | KANZ | 01 | 0923 | 0923 | 0935 | S23 | E32 | 8190 | 04 | 3.8 | 12 | SF | 2 | C | | | | |
| 0002 | LEAR | 01 | 0921 | 0923 | 0931 | S23 | E17 | 8190 | 04 | 2.7 | 10 | SF | 3 | E | | 26 | | |
| 0003 | KANZ | 01 | 1114 | 1114 | 1122 | S25 | W67 | 8185 | 03 | 27.4 | 8 | SF | 2 | C | | | | |
| 0004 | 01 | 13562 | 13571 | 1410 | S22 | W69 | 8185 | 03 | 27.4 | 14 | SF | | | | 20 | | | |
| | SVTO | 01 | 1356 | 1357 | 1429 | S22 | W70 | 8185 | 03 | 27.3 | 33 | SF | 3 | E | | 25 | | |
| | HOLL | 01 | 1356 | 1358 | 1400 | S20 | W69 | 8185 | 03 | 27.4 | 4 | SF | 3 | E | | 16 | | |
| | KANZ | 01 | 1358 | 1358 | 1402 | S24 | W69 | 8185 | 03 | 27.3 | 4 | SF | 2 | C | | | | |
| 0005 | 01 | 1522 | 15308 | 1618 | S23 | E26 | 8190 | 04 | 3.6 | 56 | SF | | | | 56 | | | |
| | KANZ | 01 | 1522 | 1530 | 16360 | S22 | E25 | 8190 | 04 | 3.6 | 74D | SF | 2 | C | | | | |
| | HOLL | 01 | 1522 | 1538 | 1632 | S23 | E25 | 8190 | 04 | 3.6 | 70 | SF | 3 | E | | 76 | | |
| | RAMY | 01 | 1528E | 1532U | 1603 | S23 | E27 | 8190 | 04 | 3.7 | 35D | SF | 3 | E | | 35 | | |
| 0006 | SVTO | 01 | 1527 | 1547 | 1604 | S23 | E13 | 8190 | 04 | 2.6 | 37 | SF | 3 | E | | 20 | | |
| 0007 | HOLL | 01 | 1956 | 2004 | 2015 | S23 | E25 | 8190 | 04 | 3.7 | 19 | SF | 3 | E | | 45 | | |
| 0008 | HOLL | 01 | 2202 | 2210 | 2228 | S23 | E22 | 8190 | 04 | 3.6 | 26 | SF | 3 | E | | 29 | | |
| 0009 | HOLL | 01 | 2329 | 2329 | 2334 | S23 | E23 | 8190 | 04 | 3.7 | 5 | SF | 3 | E | | 14 | | |
| 0010 | LEAR | 02 | 0138 | 0140 | 0143 | S23 | E08 | 8190 | 04 | 2.7 | 5 | SF | 3 | E | | 13 | | |
| 0011 | LEAR | 02 | 0431 | 0433 | 0443 | S23 | E07 | 8190 | 04 | 2.7 | 12 | SF | 3 | E | | 17 | | |
| 0012 | LEAR | 02 | 0735 | 0737 | 0744 | S23 | E05 | 8190 | 04 | 2.7 | 9 | SF | 3 | E | | 15 | | |
| 0013 | LEAR | 02 | 0754 | 0755 | 0814 | S23 | E05 | 8190 | 04 | 2.7 | 20 | SF | 3 | E | | 51 | | |
| 0014 | LEAR | 02 | 0917 | 0919 | 0930 | S23 | E30 | 8191 | 04 | 4.7 | 13 | SF | 3 | E | | 14 | | |
| | | 02 | 1014 | | 1042 | No Flare Patrol | | | | | | | | | | | | |
| 0015 | 02 | 1104 | 1106U | 1151D | S24 | E32 | 8191 | 04 | 4.9 | 47D | SF | | | | 48 | | F | |
| | SVTO | 02 | 1104 | 1106U | 1151D | S24 | E31 | 8191 | 04 | 4.8 | 47D | SF | 2 | E | | 48 | | F |
| | KANZ | 02 | 1110E | 1110U | 1118D | S23 | E32 | 8191 | 04 | 4.9 | 8D | SF | 2 | C | | | | |
| | | 02 | 1107 | | 1109 | No Flare Patrol | | | | | | | | | | | | |
| | 02 | 1111 | | 1117 | No Flare Patrol | | | | | | | | | | | | | |
| | 02 | 1119 | | 1151 | No Flare Patrol | | | | | | | | | | | | | |
| | 02 | 1204 | | 1219 | No Flare Patrol | | | | | | | | | | | | | |
| 0016 | 02 | 1427 | 1428 | 1449 | S22 | E24 | 8191 | 04 | 4.4 | 22 | SF | | | | 52 | | | |
| | KANZ | 02 | 1426E | 1426U | 1451 | S22 | E25 | 8191 | 04 | 4.5 | 25D | SF | 2 | C | | | | |
| | HOLL | 02 | 1427 | 1428 | 1447 | S22 | E24 | 8190 | 04 | 4.4 | 20 | SF | 3 | E | | 52 | | |
| 0017 | HOLL | 02 | 1643 | 1647 | 1702 | S23 | E23 | 8190 | 04 | 4.5 | 19 | SF | 3 | E | | 29 | | |
| 0018 | HOLL | 02 | 1703 | 1706 | 1712 | S23 | E22 | 8190 | 04 | 4.4 | 9 | SF | 3 | E | | 21 | | |
| | | 03 | 0512 | | 0530 | No Flare Patrol | | | | | | | | | | | | |
| 0019 | HOLL | 03 | 1857 | 1901 | 1904 | S20 | E06 | 8190 | 04 | 4.2 | 7 | SF | 3 | E | | 10 | | F |
| 0020 | HOLL | 03 | 1912 | 1916 | 1929 | S20 | E07 | 8190 | 04 | 4.3 | 17 | SF | 3 | E | | 24 | | F |
| 0021 | LEAR | 03 | 2336 | 2347 | 2416 | S26 | E17 | 8191 | 04 | 5.3 | 40 | 1N | 3 | E | | 100 | | FH |
| 0022 | HOLL | 03 | 2337 | 2349 | 2421 | S22 | E07 | 8190 | 04 | 4.5 | 44 | 1N | 3 | E | | 175 | | FH |
| 0023 | URUM | 04 | 0116 | 0120 | 0120D | S21 | E06 | 8191 | 04 | 4.5 | 4D | SN | | P | | 16 | 0.2 | D |
| 0024 | URUM | 04 | 0426 | 0438 | 0457 | S23 | E07 | 8191 | 04 | 4.7 | 31 | SN | | C | | 32 | 0.3 | D |

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APRIL 1998

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | NOAA/ USAF CMD Region | CMP Mo Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | Remarks | |
|-------|------|-------|------------|----------|----------|-----------------|-----------------------------|---------------|--------------|------------|------|------------|------|------------------|----------------------|---------------|---------|--|
| | | | | | | | | | | | | | | Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | | |
| 0025 | URUM | 04 | 0426 | 0449 | 0457 | S22 E06 | 8191 | 04 | 4.6 | 31 | SF | | C | | 48 | 0.5 | E | |
| 0026 | URUM | 04 | 0529 | 0530 | 0530D | S23 E05 | 8191 | 04 | 4.6 | 1D | SF | | P | | 64 | 0.7 | E | |
| 0027 | SVTO | 04 | 1102 | 1105 | 1110 | S22 W13 | 8190 | 04 | 3.5 | 8 | SF | 3 | E | | 21 | | F | |
| 0028 | SVTO | 04 | 1148 | 1150 | 1156 | S23 E02 | 8191 | 04 | 4.6 | 8 | SF | 3 | E | | 19 | | | |
| 0029 | 04 | 1344 | 1346 | 1402 | S21 E46 | 8193 | 04 | 8.1 | 18 | SF | | | | | 21 | | | |
| | RAMY | 04 | 1342E | 1344U | 1409 | S18 E45 | 8193 | 04 | 8.0 | 27D | SF | 3 | E | | 15 | | | |
| | HOLL | 04 | 1344 | 1346 | 1356 | S24 E46 | 8193 | 04 | 8.1 | 12 | SF | 3 | E | | 27 | | | |
| 0030 | HOLL | 04 | 1405 | 1406 | 1408 | S24 E42 | 8193 | 04 | 7.8 | 3 | SF | 3 | E | | 18 | | | |
| 0031 | HOLL | 04 | 1806 | 1807 | 1816 | S23 W01 | 8190 | 04 | 4.7 | 10 | SF | 3 | E | | 18 | | F | |
| 0032 | HOLL | 04 | 1840 | 1847 | 1851 | S23 E44 | 8193 | 04 | 8.2 | 11 | SF | 3 | E | | 17 | | F | |
| 0033 | HOLL | 04 | 1852 | 1911 | 1917 | S23 E43 | 8193 | 04 | 8.1 | 25 | SF | 3 | E | | 29 | | | |
| 0034 | HOLL | 04 | 1848 | 1849 | 1854 | S23 W02 | 8190 | 04 | 4.6 | 6 | SF | 3 | E | | 10 | | | |
| 0035 | HOLL | 04 | 1857 | 1859 | 1910 | S19 W12 | 8190 | 04 | 3.9 | 13 | SF | 3 | E | | 30 | | | |
| 0036 | HOLL | 04 | 1923 | 1928 | 1942 | S23 E43 | 8193 | 04 | 8.1 | 19 | SF | 3 | E | | 24 | | | |
| 0037 | HOLL | 04 | 2021 | 2022 | 2025 | S23 E43 | 8193 | 04 | 8.2 | 4 | SF | 3 | E | | 12 | | | |
| 0038 | HOLL | 04 | 2034 | 2037 | 2045 | S22 W02 | 8190 | 04 | 4.7 | 11 | SF | 3 | E | | 11 | | | |
| 0039 | HOLL | 04 | 2138 | 2139 | 2148 | S22 W03 | 8190 | 04 | 4.7 | 10 | SF | 3 | E | | 35 | | | |
| 0040 | HOLL | 04 | 2259 | 2307 | 2320 | S23 E42 | 8193 | 04 | 8.2 | 21 | SF | 3 | E | | 40 | | | |
| 0041 | HOLL | 04 | 2332 | 2336 | 2339 | S23 E41 | 8193 | 04 | 8.1 | 7 | SF | 3 | E | | 19 | | | |
| | | | 05 0121 | | 0243 | No Flare Patrol | | | | | | | | | | | | |
| | | | 05 0301 | | 0426 | No Flare Patrol | | | | | | | | | | | | |
| 0042 | URUM | 05 | 0437 | 0441 | 0459 | S22 E37 | 8193 | 04 | 8.0 | 22 | 1N | | C | | 177 | 2.3 | E | |
| | | | 05 0512 | | 0630 | No Flare Patrol | | | | | | | | | | | | |
| 0043 | 05 | 1150 | 1151 | 1157 | S21 E34 | 8193 | 04 | 8.1 | 7 | SF | | | | | 20 | | | |
| | RAMY | 05 | 1150 | 1151 | 1157 | S20 E35 | 8193 | 04 | 8.2 | 7 | SF | 3 | E | | 21 | | | |
| | SVTO | 05 | 1150 | 1151 | 1157 | S22 E34 | 8193 | 04 | 8.1 | 7 | SF | 3 | E | | 20 | | | |
| 0044 | RAMY | 05 | 1339 | 1339 | 1351 | S22 E33 | 8193 | 04 | 8.1 | 12 | SF | 3 | E | | 10 | | | |
| 0045 | HOLL | 05 | 1632 | 1634 | 1644 | S20 E84 | 8194 | 04 | 12.1 | 12 | SF | 3 | E | | 50 | | F | |
| 0046 | HOLL | 05 | 1742 | 1742 | 1753 | S20 E83 | 8194 | 04 | 12.1 | 11 | SF | 3 | E | | 25 | | | |
| 0047 | HOLL | 05 | 1759 | 1801 | 1803 | S19 E86 | 8194 | 04 | 12.3 | 4 | SF | 3 | E | | 19 | | | |
| 0048 | HOLL | 05 | 1950 | 1951 | 1956 | S20 E68 | 8194 | 04 | 11.0 | 6 | SF | 3 | E | | 25 | | | |
| 0049 | URUM | 06 | 0255 | 0302 | 0317 | S22 E23 | 8193 | 04 | 7.9 | 22 | SF | | C | | 16 | 0.2 | D | |
| | | | 06 1310 | | 1331 | No Flare Patrol | | | | | | | | | | | | |
| | | | 06 1537 | | 1547 | No Flare Patrol | | | | | | | | | | | | |
| 0050 | 06 | 1629I | 1634 | 1707 | S28 E76 | 8195 | 04 | 12.6 | 38 | 2F | | | | | 210 | | | |
| | RAMY | 06 | 1629 | 1641U | 1658D | S27 E75 | 8195 | 04 | 12.5 | 29D | 1F | 3 | E | | 133 | | FH | |
| | HOLL | 06 | 1630 | 1634 | 1707 | S30 E78 | 8195 | 04 | 12.8 | 37 | 2F | 3 | E | | 286 | | H F | |
| 0051 | 06 | 1715Z | 1720I | 1741 | S17 E63 | 8194 | 04 | 11.5 | 26 | SF | | | | | 39 | | | |
| | HOLL | 06 | 1715 | 1720 | 1748 | S18 E64 | 8194 | 04 | 11.6 | 33 | SF | 3 | E | | 51 | | | |
| | RAMY | 06 | 1717 | 1721 | 1734 | S16 E62 | 8194 | 04 | 11.4 | 17 | SF | 3 | E | | 27 | | | |

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| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo Day | Dur (Min) | Imp Opt Xray | Obs See Type | Area Measurement | | | Remarks |
|-------|------|----------------|----------|----------|-----------------|-----|-------------------------|---------------|--------------|-----------------|-----------------|------------------|-------------------------------------|------------------|---------|
| | | | | | | | | | | | | Time (UT) | Apparent (10 ⁻⁶ Disk) | Corr (Sq Deg) | |
| 0052 | | 06 1842 | 1842 | 1853 | S27 | E68 | 8195 | 04 12.1 | 11 | SF | | | | 16 | |
| | HOLL | 06 1842 | 1842 | 1853 | S29 | E68 | 8195 | 04 12.1 | 11 | SF | 3 | E | | 14 | |
| | RAMY | 06 1842E | 1842U | 1853D | S25 | E68 | 8195 | 04 12.0 | 11D | SF | 3 | E | | 19 | |
| | | 07 0202 | | 0630 | No Flare Patrol | | | | | | | | | | |
| | | 07 0640 | | 0734 | No Flare Patrol | | | | | | | | | | |
| | | 07 1456 | | 1500 | No Flare Patrol | | | | | | | | | | |
| | | 08 0120 | | 0905 | No Flare Patrol | | | | | | | | | | |
| | | 08 0907 | | 0930 | No Flare Patrol | | | | | | | | | | |
| 0053 | KANZ | 08 0931E | 0931U | 0931D | S27 | E71 | 8198 | 04 13.9 | 11D | SF | 2 | C | | | |
| | | 08 0932 | | 0937 | No Flare Patrol | | | | | | | | | | |
| 0054 | KANZ | 08 1003 | 1003 | 1007 | S27 | E71 | 8198 | 04 13.9 | 4 | SF | 2 | C | | | |
| | | 08 1016 | | 1107 | No Flare Patrol | | | | | | | | | | |
| | | 08 1113 | | 1305 | No Flare Patrol | | | | | | | | | | |
| 0055 | HOLL | 08 1741 | 1743 | 1748 | S33 | E65 | 8198 | 04 13.9 | 7 | SF | 3 | E | | 28 | |
| 0056 | HOLL | 08 1802 | 1802 | 1804 | S25 | E42 | 8194 | 04 12.0 | 2 | SF | 3 | E | | 27 | |
| 0057 | HOLL | 08 1929 | 1936 | 1948 | S30 | E38 | 8195 | 04 11.8 | 19 | SF | 3 | E | | 23 | |
| 0058 | HOLL | 08 1929 | 1936 | 2005 | S24 | E44 | 8194 | 04 12.2 | 36 | SF | 3 | E | | 73 | |
| 0059 | HOLL | 08 1949 | 1950 | 2007 | S30 | E38 | 8195 | 04 11.8 | 18 | SF | 3 | E | | 14 | |
| 0060 | HOLL | 08 2011 | 2013 | 2021 | S30 | E38 | 8195 | 04 11.8 | 10 | SF | 3 | E | | 14 | |
| 0061 | HOLL | 08 2013 | 2017 | 2021 | S21 | E36 | 8194 | 04 11.6 | 8 | SF | 3 | E | | 18 | |
| 0062 | HOLL | 08 2136 | 2136 | 2149 | S24 | E43 | 8194 | 04 12.2 | 13 | 1F | 3 | E | | 134 | EU |
| 0063 | HOLL | 08 2241 | 2245 | 2248 | S31 | E61 | 8198 | 04 13.7 | 7 | SF | 3 | E | | 24 | |
| 0064 | HOLL | 08 2252 | 2254 | 2259 | S31 | E61 | 8198 | 04 13.8 | 7 | SF | 3 | E | | 11 | |
| 0065 | HOLL | 08 2353 | 2354 | 2402 | S31 | E60 | 8198 | 04 13.7 | 9 | SF | 3 | E | | 12 | |
| 0066 | HOLL | 09 0005 | 0005 | 0010 | S31 | E60 | 8198 | 04 13.7 | 5 | SF | 3 | E | | 10 | |
| 0067 | HOLL | 09 0022 | 0024 | 0033 | S30 | E36 | 8195 | 04 11.8 | 11 | SF | 3 | E | | 31 | |
| | | 09 0120 | | 0445 | No Flare Patrol | | | | | | | | | | |
| 0068 | URUM | 09 0446 | 0451 | 0458 | S29 | E55 | 8198 | 04 13.5 | 12 | SF | | C | | 80 | 1.5 E |
| 0069 | URUM | 09 0548 | 0556 | 0600 | S22 | E39 | 8195 | 04 12.2 | 12 | SF | | C | | 48 | 0.7 E |
| | | 09 0601 | | 0806 | No Flare Patrol | | | | | | | | | | |
| | | 09 0827 | | 0855 | No Flare Patrol | | | | | | | | | | |
| | | 09 0911 | | 0923 | No Flare Patrol | | | | | | | | | | |
| | | 09 0943 | | 1030 | No Flare Patrol | | | | | | | | | | |
| 0070 | HOLL | 09 1708 | 1713 | 1724 | S22 | E08 | 8200 | 04 10.3 | 16 | SF | 3 | E | | 14 | |
| 0071 | HOLL | 09 1740 | 1742 | 1746 | S22 | E08 | 8200 | 04 10.3 | 6 | SF | 3 | E | | 13 | |
| 0072 | HOLL | 09 1802 | 1804 | 1808 | S22 | E08 | 8200 | 04 10.4 | 6 | SF | 3 | E | | 25 | |
| 0073 | RAMY | 09 1814 | 1815 | 1821 | S29 | E47 | 8198 | 04 13.4 | 7 | SF | 3 | E | | 41 | F |
| 0074 | | 09 19371 | 19411 | 1952 | S22 | E06 | 8200 | 04 10.3 | 15 | SF | | | | 36 | |
| | HOLL | 09 1937 | 1942 | 1955 | S22 | E05 | 8200 | 04 10.2 | 18 | SF | 3 | E | | 48 | |
| | RAMY | 09 1938 | 1941 | 1950 | S23 | E07 | 8200 | 04 10.3 | 12 | SF | 3 | E | | 25 | |
| 0075 | HOLL | 09 2155 | 2155 | 2200 | S30 | E44 | 8198 | 04 13.4 | 5 | SF | 3 | E | | 17 | |

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| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF | | CMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | Remarks |
|-------|------|----------------|----------|----------|-----------------|-----|-----------|-----|--------|-----------|---------|------|---------|------|------------------|----------------------|---------------|---------|
| | | | | | | | Region | Day | | | | | | | Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | |
| 0097 | | 14 2138 | 2139 | 2146 | S30 | W20 | 8198 | 04 | 13.3 | 8 | SF | | | | | 41 | | |
| | HOLL | 14 2138 | 2139 | 2145 | S30 | W20 | 8198 | 04 | 13.3 | 7 | SF | | 3 | E | | 29 | | |
| | RAMY | 14 2138 | 2140 | 2148 | S30 | W19 | 8198 | 04 | 13.4 | 10 | SF | | 3 | E | | 53 | | |
| | | 15 0124 | | 0329 | No Flare Patrol | | | | | | | | | | | | | |
| 0098 | SVTO | 15 0721 | 0722 | 0730 | N29 | W15 | 8203 | 04 | 14.1 | 9 | SF | | 3 | E | | 15 | | |
| 0099 | SVTO | 15 0739 | 0745 | 0806 | N29 | W15 | 8203 | 04 | 14.1 | 27 | SN | | 3 | E | | 81 | | |
| 0100 | URUM | 15 0844E | 0844 | 0907 | N31 | W15 | 8203 | 04 | 14.2 | 23D | SN | | | P | | 96 | 1.3 | E |
| 0101 | URUM | 15 0912 | 0915 | 0919 | N31 | W16 | 8203 | 04 | 14.1 | 7 | SN | | | C | | 32 | 0.4 | D |
| 0102 | SVTO | 15 1201 | 1223 | 1245 | N27 | W19 | 8203 | 04 | 14.0 | 44 | SF | | 3 | E | | 75 | | |
| 0103 | RAMY | 15 1419 | 1419 | 1434 | S30 | W25 | 8198 | 04 | 13.6 | 15 | SF | | 3 | E | | 10 | | H |
| 0104 | | 15 15027 | 15064 | 1514 | N29 | W20 | 8203 | 04 | 14.0 | 12 | SF | | | | | 33 | | |
| | RAMY | 15 1502 | 1506 | 1515 | N31 | W19 | 8203 | 04 | 14.1 | 13 | SF | | 3 | E | | 44 | | |
| | SVTO | 15 1509 | 1510 | 1514 | N27 | W20 | 8203 | 04 | 14.1 | 5 | SF | | 3 | E | | 22 | | |
| 0105 | | 15 15054 | 15111 | 1552 | S30 | W32 | 8198 | 04 | 13.1 | 47 | 1F | | | | | 152 | | F |
| | RAMY | 15 1505 | 1511 | 1555 | S28 | W32 | 8198 | 04 | 13.1 | 50 | 1F | | 3 | E | | 199 | | |
| | SVTO | 15 1509 | 1512 | 1550 | S32 | W33 | 8198 | 04 | 13.0 | 41 | 1F | | 3 | E | | 104 | | F |
| | | 16 0023 | | 0039 | No Flare Patrol | | | | | | | | | | | | | |
| 0106 | URUM | 16 0109E | 0109 | 0125 | N30 | W25 | 8203 | 04 | 14.1 | 16D | SB | | | P | | 32 | 0.5 | D |
| 0107 | LEAR | 16 0222 | 0222 | 0228 | S22 | W24 | 8202 | 04 | 14.2 | 6 | SF | | 3 | E | | 23 | | |
| | | 16 0314 | | 0547 | No Flare Patrol | | | | | | | | | | | | | |
| | | 16 0646 | | 0708 | No Flare Patrol | | | | | | | | | | | | | |
| | | 16 0954 | | 1233 | No Flare Patrol | | | | | | | | | | | | | |
| | | 16 1247 | | 1801 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 0215 | | 0220 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 0428 | | 0502 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 0526 | | 0559 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 0719 | | 0749 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 2054 | | 2055 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 0127 | | 0315 | No Flare Patrol | | | | | | | | | | | | | |
| 0108 | URUM | 18 0356 | 0404 | 0411 | N19 | W03 | 8205 | 04 | 17.9 | 15 | SN | | | C | | 48 | 0.5 | D |
| | | 18 0451 | | 0459 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 0941 | | 1035 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 1046 | | 1209 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 1225 | | 1236 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 0128 | | 0438 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 0507 | | 0530 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 0638 | | 0643 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 0911 | | 0920 | No Flare Patrol | | | | | | | | | | | | | |
| 0109 | SVTO | 19 1302 | 1305U | 1319 | N21 | W17 | 8205 | 04 | 18.2 | 17 | SF | | 3 | E | | 26 | | |
| 0110 | SVTO | 19 1412 | 1420U | 1429D | N21 | W18 | 8205 | 04 | 18.2 | 17D | SF | | 3 | E | | 25 | | F |
| 0111 | RAMY | 19 1635 | 1636 | 1641 | N19 | W19 | 8205 | 04 | 18.2 | 6 | SF | | 4 | E | | 14 | | |
| | | 20 0129 | | 0439 | No Flare Patrol | | | | | | | | | | | | | |
| | | 20 0450 | | 0458 | No Flare Patrol | | | | | | | | | | | | | |
| | | 21 0113 | | 0118 | No Flare Patrol | | | | | | | | | | | | | |
| | | 21 0134 | | 0140 | No Flare Patrol | | | | | | | | | | | | | |
| | | 21 0150 | | 0205 | No Flare Patrol | | | | | | | | | | | | | |
| 0112 | KANZ | 21 1000 | 1004 | 1008 | N23 | W42 | 8205 | 04 | 18.2 | 8 | SF | | 2 | C | | | | |
| 0113 | HOLL | 21 2324 | 2324 | 2329 | N03 | W50 | 8205 | 04 | 18.2 | 5 | SF | | 3 | E | | 20 | | FH |

H α SOLAR FLARES

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| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks |
|-------|------|-----|------------|----------|----------|-----|-----|-------------------------|---------------|--------------|------------|------|------------|------|--------------|-------------------------|------------------|---------|
| | | | | | | | | | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | |
| 0114 | HOLL | 22 | 1341 | 1343 | 1346 | N22 | W65 | 8205 | 04 | 17.6 | 5 | SF | 3 | E | | 12 | | |
| 0115 | | 22 | 13426 | 1351 | 1359 | N20 | W61 | 8205 | 04 | 17.9 | 17 | SF | | | | 24 | | |
| | SVTO | 22 | 1342 | 1351 | 1359 | N19 | W59 | 8205 | 04 | 18.1 | 17 | SF | 3 | E | | 16 | | |
| | HOLL | 22 | 1348 | 1351 | 1359 | N22 | W63 | 8205 | 04 | 17.7 | 11 | SF | 3 | E | | 31 | | |
| 0116 | HOLL | 22 | 1606 | 1609 | 1617 | N22 | W67 | 8205 | 04 | 17.5 | 11 | SF | 3 | E | | 33 | | |
| 0117 | HOLL | 22 | 1843 | 1843 | 1849 | N22 | W69 | 8205 | 04 | 17.5 | 6 | SF | 3 | E | | 13 | | |
| 0118 | HOLL | 22 | 1904 | 1907 | 1915 | N22 | W69 | 8205 | 04 | 17.5 | 11 | SF | 3 | E | | 22 | | |
| 0119 | HOLL | 22 | 2244 | 2245 | 2250 | N23 | W70 | 8205 | 04 | 17.5 | 6 | SF | 3 | E | | 36 | | |
| 0120 | HOLL | 22 | 2255 | 2256 | 2301 | N23 | W70 | 8205 | 04 | 17.6 | 6 | SF | 3 | E | | 21 | | |
| 0121 | URUM | 23 | 0214E | 0214 | 0219 | N19 | W66 | 8205 | 04 | 18.0 | 5D | SN | | P | | 80 | | EG |
| | | 23 | 0929 | | 1002 | | | No Flare Patrol | | | | | | | | | | |
| | | 23 | 1014 | | 1029 | | | No Flare Patrol | | | | | | | | | | |
| | | 23 | 2150 | | 2229 | | | No Flare Patrol | | | | | | | | | | |
| | | 25 | 0712 | | 0714 | | | No Flare Patrol | | | | | | | | | | |
| | | 25 | 0716 | | 0723 | | | No Flare Patrol | | | | | | | | | | |
| | | 25 | 0733 | | 0753 | | | No Flare Patrol | | | | | | | | | | |
| | | 25 | 0759 | | 0805 | | | No Flare Patrol | | | | | | | | | | |
| | | 25 | 0807 | | 0811 | | | No Flare Patrol | | | | | | | | | | |
| | | 25 | 0817 | | 0819 | | | No Flare Patrol | | | | | | | | | | |
| 0122 | KHAR | 25 | 1005E | | 1016 | S16 | E78 | 8210 | 05 | 1.3 | 11D | 1N | 2 | P | 1005 | 300 | | Z |
| 0123 | KHAR | 25 | 1103 | 1104 | 1109 | S15 | E78 | 8210 | 05 | 1.4 | 6 | SF | 2 | P | | | | DH |
| 0124 | KHAR | 25 | 1115 | 1121 | 1142D | S16 | E77 | 8210 | 05 | 1.3 | 27D | 1N | 2 | P | 1125 | 350 | | HOZ |
| 0125 | KHAR | 25 | 1126 | 1130U | 1141 | S23 | W25 | 8209 | 04 | 23.6 | 15 | SN | 2 | P | 1126 | 110 | 1.3 | EHO |
| | | 25 | 1143 | | 1217 | | | No Flare Patrol | | | | | | | | | | |
| 0126 | KANZ | 25 | 1414 | 1422 | 1532 | S15 | E70 | 8210 | 04 | 30.9 | 78 | SF | 2 | C | | | | |
| 0127 | | 25 | 1422* | 15143 | 1546 | S20 | E72 | 8210 | 05 | 1.1 | 84 | SF | | | | 32 | | F |
| | SVTO | 25 | 1422 | 1514 | 1557 | S19 | E73 | 8210 | 05 | 1.2 | 95 | SF | 3 | E | | 51 | | F |
| | HOLL | 25 | 1517 | 1517 | 1535 | S20 | E72 | 8210 | 05 | 1.1 | 18 | SF | 3 | E | | 13 | | |
| 0128 | HOLL | 25 | 1541 | 1541 | 1549 | S21 | E72 | 8210 | 05 | 1.2 | 8 | SF | 3 | E | | 14 | | |
| 0129 | HOLL | 25 | 1801 | 1816 | 1835 | S18 | E72 | 8210 | 05 | 1.2 | 34 | 1F | 3 | E | | 242 | | H |
| | | 25 | 2117 | | 2132 | | | No Flare Patrol | | | | | | | | | | |
| | | 25 | 2319 | | 2321 | | | No Flare Patrol | | | | | | | | | | |
| 0130 | SVTO | 26 | 0613 | 0613 | 0618 | S14 | E68 | 8210 | 05 | 1.4 | 5 | SF | 3 | E | | 13 | | |
| | | 26 | 1709 | | 1726 | | | No Flare Patrol | | | | | | | | | | |
| | | 26 | 1748 | | 1806 | | | No Flare Patrol | | | | | | | | | | |
| | | 26 | 1844 | | 1845 | | | No Flare Patrol | | | | | | | | | | |
| | | 26 | 1933 | | 1944 | | | No Flare Patrol | | | | | | | | | | |
| | | 26 | 2032 | | 2045 | | | No Flare Patrol | | | | | | | | | | |
| | | 26 | 2221 | | 2231 | | | No Flare Patrol | | | | | | | | | | |
| | | 26 | 2240 | | 2245 | | | No Flare Patrol | | | | | | | | | | |
| | | 26 | 2300 | | 2308 | | | No Flare Patrol | | | | | | | | | | |
| 0131 | | 27 | 08366 | 09101 | 1200 | S17 | E50 | 8210 | 05 | 1.1 | 204 | 2B | | | | 545 | 11.4 | FUXZ |
| | SVTO | 27 | 0836 | 0911 | 1234 | S16 | E50 | 8210 | 05 | 1.1 | 238 | 2B | 3 | E | | 462 | | ZU |
| | LEAR | 27 | 0842 | 0910 | 0950D | S19 | E50 | 8210 | 05 | 1.2 | 68D | 2B | 3 | E | | 422 | | UF |
| | KHAR | 27 | 0905E | 0911 | 1125 | S15 | E50 | 8210 | 05 | 1.2 | 140D | 2B | 2 | V | 0942 | 750 | 11.4 | UXZ |
| 0132 | RAMY | 27 | 1209E | 1209U | 1250 | S17 | E46 | 8210 | 05 | 1.0 | 41D | SF | 3 | E | | 19 | | |

H α SOLAR FLARES

11
Apr 98

APRIL 1998

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | Remarks |
|-------|------|-----|------------|----------|----------|-----|-----|-------------------------|-----------|--------------|------------|------|------------|------|------------------|----------------------|---------------|---------|
| | | | | | | | | | | | | | | | Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | |
| 0154 | HOLL | 30 | 1952 | 1955 | 2003 | N25 | E51 | 8214 | 05 | 4.8 | 11 | SF | 3 | E | | 13 | | |
| 0155 | HOLL | 30 | 2040 | 2040 | 2055 | N24 | E50 | 8214 | 05 | 4.7 | 15 | SF | 3 | E | | 29 | | |
| 0156 | | 30 | 20563 | 21002 | 2106 | N24 | E48 | 8214 | 05 | 4.6 | 10 | SF | | | | 19 | | |
| | HOLL | 30 | 2056 | 2100 | 2106 | N24 | E48 | 8214 | 05 | 4.6 | 10 | SF | 3 | E | | 19 | | |
| | RAMY | 30 | 2059 | 2102 | 2136D | N25 | E47 | 8214 | 05 | 4.5 | 37D | SF | 3 | E | | 19 | | |
| 0157 | HOLL | 30 | 2107 | 2136 | 2140 | N24 | E49 | 8214 | 05 | 4.7 | 33 | SF | 3 | E | | 23 | | |
| 0158 | | 30 | 2118* | 2122* | 2221 | S21 | E02 | 8210 | 05 | 1.0 | 63 | 2N | | | | 204 | | EF |
| | HOLL | 30 | 2118 | 2122 | 2221 | S21 | E03 | 8210 | 05 | 1.1 | 63 | 2N | 3 | E | | 297 | | FE |
| | RAMY | 30 | 2136 | 2137 | 2220D | S21 | E02 | 8210 | 05 | 1.0 | 44D | 1F | 3 | E | | 112 | | F |
| 0159 | HOLL | 30 | 2144 | 2205 | 2302 | N24 | E49 | 8214 | 05 | 4.7 | 78 | SF | 3 | E | | 55 | | |
| 0160 | HOLL | 30 | 2300 | 2313 | 2319 | S18 | E01 | 8210 | 05 | 1.0 | 19 | SF | 3 | E | | 10 | | |
| 0161 | | 30 | 2302* | 2323* | 2358 | N24 | E47 | 8214 | 05 | 4.6 | 56 | SF | | | | 36 | | F |
| | HOLL | 30 | 2302 | 2323 | 2359 | N25 | E47 | 8214 | 05 | 4.6 | 57 | SF | 3 | E | | 51 | | |
| | LEAR | 30 | 2349 | 2349 | 2358 | N22 | E47 | 8214 | 05 | 4.6 | 9 | SF | 3 | E | | 20 | | F |

"Remarks"

- | | |
|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian. B = Probably the end of a more important flare. C = Invisible 10 minutes before. D = Brilliant point. E = Two or more brilliant points. F = Several eruptive centers. G = No visible spots in the neighborhood. H = Flare accompanied by high-speed dark filament. I = Active region very extended. J = Distinct variations of plage intensity before or after the flare. K = Several intensity maxima. L = Existing filaments show signs of sudden activity. M = White-light flare. N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of Ca II. P = Flare shows Helium D3 in emission. Q = Flare shows Balmer continuum in emission. R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material. S = Brightness follows disappearance of filament in same position. T = Region active all day. U = Two bright branches, parallel or converging. V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase. W = Great increase in area after time of maximum intensity. X = Unusually wide H-alpha line. Y = System of loop-type prominences. Z = Major sunspot umbra covered by flare.</p> |
|---|---|

Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual