# Hα SOLAR FLARES

## NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | CMP Day | Dur (Min) | Imp Opt | Imp Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0001 | LEAR | 01 | 0129 | 0129 | 0134 | N09 | W11 | 9682 | 10 | 31.2 | 5 | SF | | 3 | E | | 17 | | |
| 0002 | LEAR | 01 | 0235 | 0236 | 0239 | S19 | E78 | 9687 | 11 | 7.1 | 4 | SF | | 3 | E | | 23 | | |
| 0003 | LEAR | 01 | 0648 | 0648 | 0653 | N07 | W62 | 9678 | 10 | 27.7 | 5 | SF | | 3 | E | | 41 | | |
| 0004 | | 01 | 0743 | 07441 | 0757 | N06 | E25 | 9684 | 11 | 3.2 | 14 | 1N | | | | | 215 | 4.2 | EF |
| | LEAR | 01 | 0743 | 0744 | 0757 | N06 | E24 | 9684 | 11 | 3.1 | 14 | SF | | 3 | E | | 60 | | F |
| | URUM | 01 | 0745E | 0745 | 0745D | N05 | E26 | 9684 | 11 | 3.3 | 14D | 1N | | | P | | 370 | 4.2 | E |
| | | 01 | 1008 | | 1020 | No Flare Patrol | | | | | | | | | | | | | |
| 0005 | SVTO | 01 | 1134 | 1135 | 1159 | N15 | W19 | 9682 | 10 | 31.0 | 25 | SF | | 3 | E | | 39 | | H |
| 0006 | RAMY | 01 | 1139 | 1145U | 1223D | N14 | W22 | 9682 | 10 | 30.9 | 44D | SF | | 3 | E | | 43 | | F |
| 0007 | SVTO | 01 | 1244 | 1247 | 1302 | S20 | E77 | 9687 | 11 | 7.4 | 18 | SF | | 3 | E | | 14 | | |
| 0008 | RAMY | 01 | 1255E | 1301U | 1307 | S20 | E78 | 9687 | 11 | 7.5 | 12D | SF | | 1 | E | | 29 | | |
| 0009 | SVTO | 01 | 1242 | 1244 | 1256 | N09 | W17 | 9682 | 10 | 31.2 | 14 | SF | | 3 | E | | 20 | | F |
| 0010 | RAMY | 01 | 1254E | 1300U | 1304 | N13 | W16 | 9682 | 10 | 31.3 | 10D | SF | | 1 | E | | 34 | | F |
| 0011 | SVTO | 01 | 1357 | 1359U | 1406 | S19 | E77 | 9687 | 11 | 7.4 | 9 | SF | | 3 | E | | 18 | | Y |
| 0012 | RAMY | 01 | 1418 | 1418 | 1424 | S18 | E79 | 9687 | 11 | 7.6 | 6 | SF | | 3 | E | | 14 | | F |
| 0013 | HOLL | 01 | 1433 | 1442 | 1459 | S20 | E73 | 9687 | 11 | 7.2 | 26 | SF | | 3 | E | | 21 | | F |
| 0014 | | 01 | 1518 | 1518 | 1523 | N14 | W13 | 9682 | 10 | 31.6 | 5 | SF | | | | | 48 | | |
| | HOLL | 01 | 1518 | 1518 | 1522 | N14 | W13 | 9682 | 10 | 31.6 | 4 | SF | | 3 | E | | 41 | | |
| | RAMY | 01 | 1518E | 1520U | 1524 | N14 | W13 | 9682 | 10 | 31.6 | 6D | SF | | 3 | E | | 55 | | |
| 0015 | HOLL | 01 | 1533 | 1537 | 1539 | S20 | E73 | 9687 | 11 | 7.2 | 6 | SF | | 3 | E | | 11 | | |
| | | 01 | 1642 | | 1655 | No Flare Patrol | | | | | | | | | | | | | |
| 0016 | RAMY | 01 | 1711 | 1711 | 1727 | N06 | E18 | 9684 | 11 | 3.1 | 16 | SF | | 3 | E | | 99 | | F |
| 0017 | RAMY | 01 | 1739 | 1740 | 1744 | N05 | E60 | 9685 | 11 | 6.2 | 5 | SF | | 3 | E | | 14 | | |
| 0018 | RAMY | 01 | 1740 | 1742 | 1744 | N12 | W19 | 9682 | 10 | 31.3 | 4 | SF | | 3 | E | | 40 | | |
| 0019 | RAMY | 01 | 1803 | 1804 | 1815 | N05 | W69 | 9678 | 10 | 27.7 | 12 | SF | | 3 | E | | 51 | | |
| 0020 | RAMY | 01 | 1924 | 1927 | 1955 | N11 | W20 | 9682 | 10 | 31.3 | 31 | SF | | 3 | E | | 49 | | F |
| | | 01 | 1931 | | 1952 | No Flare Patrol | | | | | | | | | | | | | |
| 0021 | HOLL | 01 | 1954 | 1955 | 2005 | N12 | W19 | 9682 | 10 | 31.4 | 11 | SF | | 3 | E | | 35 | | F |
| 0022 | HOLL | 01 | 1954 | 1955 | 2018 | S18 | E69 | 9687 | 11 | 7.1 | 24 | SF | | 3 | E | | 18 | | F |
| 0023 | HOLL | 01 | 2155 | 2312U | 2324D | N12 | W23 | 9682 | 10 | 31.2 | 89D | 1F | | 3 | E | | 159 | | F |
| 0024 | LEAR | 01 | 2309E | 0057 | 0159 | N12 | W20 | 9682 | 10 | 31.4 | 170D | 1F | | 2 | E | | 153 | | F |
| 0025 | MITK | 02 | 0000 | 0002 | 0015 | N12 | W20 | | 10 | 31.5 | 15 | SN | | | C | 0002 | 13 | 0.1 | B |
| 0026 | LEAR | 02 | 0413 | 0413 | 0446 | N12 | W22 | 9682 | 10 | 31.5 | 33 | SF | | 3 | E | | 16 | | F |
| 0027 | LEAR | 02 | 0513 | 0513 | 0517 | S20 | E62 | 9687 | 11 | 6.9 | 4 | SF | | 3 | E | | 15 | | |
| 0028 | LEAR | 02 | 0803 | 0809 | 0821 | S20 | E71 | 9687 | 11 | 7.8 | 18 | SF | | 2 | E | | 32 | | F |
| 0029 | LEAR | 02 | 0813 | 0819 | 0825 | N09 | W28 | 9682 | 10 | 31.2 | 12 | SF | | 2 | E | | 23 | | F |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0030 | | 02 | 14361 | 14371 | 1444 | S20 | E67 | 9687 | 11 | 7.7 | 8 | SF | | | | | 24 | | FH |
| | RAMY | 02 | 1436 | 1438 | 1444 | S21 | E70 | 9687 | 11 | 8.0 | 8 | SF | | 3 | E | | 29 | | FH |
| | HOLL | 02 | 1437 | 1437 | 1443 | S18 | E64 | 9687 | 11 | 7.5 | 6 | SF | | 3 | E | | 18 | | F |
| 0031 | RAMY | 02 | 1514 | 1514 | 1520 | N12 | W33 | 9682 | 10 | 31.1 | 6 | SF | | 3 | E | | 17 | | |
| 0032 | RAMY | 02 | 1605 | 1606 | 1611 | N02 | E02 | 9684 | 11 | 2.8 | 6 | SF | | 3 | E | | 13 | | F |
| 0033 | HOLL | 02 | 1612 | 1615 | 1641 | S18 | E63 | 9687 | 11 | 7.5 | 29 | SF | | 3 | E | | 40 | | F |
| 0034 | | 02 | 1703 | 17031 | 1710 | N04 | E03 | 9684 | 11 | 2.9 | 7 | SF | | | | | 14 | | |
| | HOLL | 02 | 1703 | 1703 | 1710 | N04 | E03 | 9684 | 11 | 2.9 | 7 | SF | | 3 | E | | 15 | | |
| | RAMY | 02 | 1703 | 1704 | 1711 | N03 | E03 | 9684 | 11 | 2.9 | 8 | SF | | 3 | E | | 14 | | |
| 0035 | HOLL | 02 | 2128 | 2130 | 2135 | S18 | E62 | 9687 | 11 | 7.6 | 7 | SF | | 3 | E | | 16 | | |
| 0036 | LEAR | 03 | 0232 | 0232 | 0238 | N04 | W10 | 9684 | 11 | 2.3 | 6 | SF | | 3 | E | | 49 | | F |
| 0037 | LEAR | 03 | 0249 | 0250 | 0258 | N03 | W03 | 9684 | 11 | 2.9 | 9 | SF | | 3 | E | | 34 | | F |
| 0038 | LEAR | 03 | 0434 | 0435 | 0439 | N05 | W07 | 9684 | 11 | 2.7 | 5 | SF | | 3 | E | | 11 | | |
| 0039 | LEAR | 03 | 0740 | 0741 | 0752 | N13 | W42 | 9682 | 10 | 31.1 | 12 | SF | | 3 | E | | 70 | | F |
| 0040 | LEAR | 03 | 0833 | 0834 | 0838 | N13 | W44 | 9682 | 10 | 31.0 | 5 | SF | | 3 | E | | 43 | | F |
| 0041 | | 03 | 09342 | 09351 | 0938 | N12 | W44 | 9682 | 10 | 31.1 | 4 | SF | | | | | 18 | | F |
| | LEAR | 03 | 0934 | 0935 | 0938 | N13 | W44 | 9682 | 10 | 31.1 | 4 | SF | | 2 | E | | 13 | | F |
| | SVTO | 03 | 0936 | 0936 | 0950D | N12 | W43 | 9682 | 10 | 31.2 | 14D | SF | | 3 | E | | 23 | | F |
| | | 03 | 1003 | | 1014 | No Flare Patrol | | | | | | | | | | | | | |
| 0042 | SVTO | 03 | 1022E | 1023U | 1038D | S21 | E54 | 9687 | 11 | 7.6 | 16D | SF | | 2 | E | | 52 | | |
| 0043 | SVTO | 03 | 1407 | 1408 | 1410 | N12 | W47 | 9682 | 10 | 31.0 | 3 | SF | | 3 | E | | 19 | | |
| 0044 | SVTO | 03 | 1411E | 1412U | 1419D | N12 | W47 | 9682 | 10 | 31.0 | 8D | SF | | 2 | E | | 34 | | |
| 0045 | HOLL | 03 | 1525 | 1526 | 1534 | N03 | W09 | 9684 | 11 | 3.0 | 9 | SF | | 3 | E | | 22 | | |
| 0046 | HOLL | 03 | 1537 | 1538 | 1540 | N02 | W10 | 9684 | 11 | 2.9 | 3 | SF | | 3 | E | | 25 | | |
| 0047 | HOLL | 03 | 1819 | 1821 | 1825 | N10 | W49 | 9682 | 10 | 31.1 | 6 | SF | | 3 | E | | 17 | | |
| 0048 | HOLL | 03 | 1826 | 1826 | 1829 | N10 | W49 | 9682 | 10 | 31.1 | 3 | SF | | 3 | E | | 11 | | |
| 0049 | HOLL | 03 | 1848 | 1851 | 1856 | N04 | W20 | 9684 | 11 | 2.3 | 8 | SF | | 3 | E | | 25 | | F |
| 0050 | HOLL | 03 | 2108 | 2110 | 2121 | N03 | W16 | 9684 | 11 | 2.7 | 13 | SF | | 3 | E | | 40 | | F |
| 0051 | LEAR | 04 | 0101 | 0101 | 0109 | N13 | W52 | 9682 | 10 | 31.1 | 8 | SF | | 2 | E | | 16 | | |
| 0052 | LEAR | 04 | 0144 | 0144 | 0150 | N06 | W19 | 9684 | 11 | 2.6 | 6 | SF | | 2 | E | | 20 | | F |
| 0053 | LEAR | 04 | 0307 | 0307 | 0312 | N05 | W20 | 9684 | 11 | 2.6 | 5 | SF | | 2 | E | | 16 | | |
| 0054 | URUM | 04 | 0429E | 0429 | 0429D | S16 | W36 | | 11 | 1.4 | 5D | 1N | | | P | | 241 | 3.3 | E |
| 0055 | | 04 | 0641 | 06432 | 0700 | N14 | W57 | 9682 | 10 | 31.0 | 19 | 1N | | | | | 121 | 2.6 | C |
| | LEAR | 04 | 0641 | 0643 | 0700 | N14 | W57 | 9682 | 10 | 31.0 | 19 | 1N | | 3 | E | | 128 | | |
| | SVTO | 04 | 0641 | 0643U | 0702D | N13 | W55 | 9682 | 10 | 31.1 | 21D | 1N | | 3 | E | | 107 | | |
| | URUM | 04 | 0645E | 0645 | 0645D | N15 | W59 | 9682 | 10 | 30.9 | 21D | 1B | | | P | | 129 | 2.6 | C |
| 0056 | URUM | 04 | 0819E | 0819 | 0819D | N06 | W23 | 9684 | 11 | 2.6 | 21D | 1N | | | P | | 193 | 2.2 | E |
| 0057 | SVTO | 04 | 1050 | 1052 | 1101 | S21 | E42 | 9687 | 11 | 7.7 | 11 | SF | | 3 | E | | 14 | | |
| 0058 | SVTO | 04 | 1125 | 1130 | 1139 | N02 | W25 | 9684 | 11 | 2.6 | 14 | SF | | 3 | E | | 13 | | |

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| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | CMP Day | Dur (Min) | Imp Opt | Imp Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0059 | SVTO | 04 | 1217 | 1219 | 1226 | N07 | W20 | 9684 | 11 | 3.0 | 9 | SF | | 3 | E | | 17 | | F |
| 0060 | | 04 | 13461 | 13501 | 1408 | S20 | E38 | 9687 | 11 | 7.5 | 22 | SF | | | | | 60 | | F |
| | SVTO | 04 | 1346 | 1350 | 1414 | S20 | E37 | 9687 | 11 | 7.4 | 28 | SF | | 3 | E | | 69 | | F |
| | RAMY | 04 | 1347 | 1351 | 1401 | S19 | E40 | 9687 | 11 | 7.6 | 14 | SF | | 3 | E | | 51 | | |
| 0061 | HOLL | 04 | 1524 | 1525 | 1530 | N07 | W16 | 9684 | 11 | 3.4 | 6 | SF | | 3 | E | | 15 | | F |
| 0062 | RAMY | 04 | 1538 | 1540 | 1601 | S19 | E37 | 9687 | 11 | 7.5 | 23 | SF | | 3 | E | | 32 | | F |
| 0063 | | 04 | 16032 | 1614 | 2340D | N07 | W19 | 9684 | 11 | 3.2 | 457D | 3B | | | | | 643 | | FUZ |
| | HOLL | 04 | 1603 | 1622U | 2340D | N06 | W18 | 9684 | 11 | 3.3 | 457D | 3B | | 3 | E | | | | ZF |
| | RAMY | 04 | 1605 | 1614 | 1804D | N08 | W20 | 9684 | 11 | 3.2 | 119D | 3B | | 3 | E | | 643 | | UF |
| 0064 | HOLL | 04 | 1700 | 1701 | 1721 | S20 | E40 | 9687 | 11 | 7.8 | 21 | SF | | 3 | E | | 90 | | |
| 0065 | HOLL | 04 | 1856 | 1856 | 1906 | S20 | E39 | 9687 | 11 | 7.8 | 10 | SF | | 3 | E | | 51 | | |
| | | 04 | 1928 | | 1933 | No Flare Patrol | | | | | | | | | | | | | |
| 0066 | HOLL | 04 | 1943 | 1944 | 1957 | S20 | E38 | 9687 | 11 | 7.7 | 14 | SF | | 3 | E | | 54 | | |
| | | 04 | 2015 | | 2027 | No Flare Patrol | | | | | | | | | | | | | |
| | | 04 | 2124 | | 2230 | No Flare Patrol | | | | | | | | | | | | | |
| 0067 | LEAR | 05 | 0042 | 0042 | 0046 | N09 | W64 | 9682 | 10 | 31.2 | 4 | SF | | 3 | E | | 21 | | |
| 0068 | LEAR | 05 | 0249 | 0249 | 0318 | S20 | E34 | 9687 | 11 | 7.7 | 29 | SF | | 3 | E | | 86 | | F |
| 0069 | SVTO | 05 | 0717 | 0718 | 0721 | S27 | E12 | 9689 | 11 | 6.2 | 4 | SF | | 3 | E | | 22 | | |
| 0070 | | 05 | 09081 | 09113 | 0944 | N03 | W37 | 9684 | 11 | 2.6 | 36 | 1N | | | | | 171 | 2.9 | EFU |
| | LEAR | 05 | 0908 | 0911 | 0947 | N03 | W36 | 9684 | 11 | 2.7 | 39 | 1N | | 3 | E | | 152 | | U |
| | SVTO | 05 | 0909 | 0914 | 0944 | N02 | W37 | 9684 | 11 | 2.6 | 35 | 1N | | 3 | E | | 135 | | F |
| | URUM | 05 | 0912E | 0912U | 0941 | N03 | W38 | 9684 | 11 | 2.5 | 29D | 1B | | | P | | 225 | 2.9 | E |
| 0071 | SVTO | 05 | 1101 | 1101 | 1105 | N12 | W71 | 9682 | 10 | 31.1 | 4 | SF | | 3 | E | | 25 | | F |
| 0072 | SVTO | 05 | 1429 | 1433 | 1439 | N08 | W38 | 9684 | 11 | 2.7 | 10 | SF | | 3 | E | | 16 | | |
| | | 05 | 1450 | | 1501 | No Flare Patrol | | | | | | | | | | | | | |
| 0073 | | 05 | 1623 | 1626 | 1655 | S19 | E25 | 9687 | 11 | 7.6 | 32 | SF | | | | | 52 | | F |
| | RAMY | 05 | 1623 | 1626 | 1655 | S19 | E26 | 9687 | 11 | 7.7 | 32 | SF | | 3 | E | | 55 | | F |
| | HOLL | 05 | 1627E | 1628U | 1716D | S19 | E24 | 9687 | 11 | 7.5 | 49D | SF | | 3 | E | | 48 | | |
| 0074 | HOLL | 05 | 1627E | 1627U | 1638 | S18 | E77 | 9690 | 11 | 11.5 | 11D | SF | | 3 | E | | 29 | | |
| 0075 | RAMY | 05 | 1803 | 1803 | 1824D | S19 | E68 | 9690 | 11 | 10.9 | 21D | SF | | 3 | E | | 28 | | F |
| | | 05 | 1828 | | 1837 | No Flare Patrol | | | | | | | | | | | | | |
| 0076 | RAMY | 05 | 1852 | 1857 | 1906 | S26 | E06 | 9689 | 11 | 6.2 | 14 | SF | | 3 | E | | 34 | | |
| | | 05 | 2046 | | 2219 | No Flare Patrol | | | | | | | | | | | | | |
| 0077 | LEAR | 05 | 2326 | 2328 | 2345 | S21 | E21 | 9687 | 11 | 7.6 | 19 | SF | | 3 | E | | 27 | | F |
| 0078 | LEAR | 06 | 0258 | 0259 | 0313 | S19 | E10 | 9687 | 11 | 6.9 | 15 | 1B | | 3 | E | | 167 | | EF |
| 0079 | LEAR | 06 | 0301 | 0301 | 0304 | S19 | E65 | 9690 | 11 | 11.1 | 3 | SF | | 3 | E | | 46 | | |
| 0080 | LEAR | 06 | 0643 | 0656 | 0702 | S18 | E08 | 9687 | 11 | 6.9 | 19 | SF | | 2 | E | | 19 | | |
| 0081 | LEAR | 06 | 0707 | 0707 | 0716 | S19 | E08 | 9687 | 11 | 6.9 | 9 | SF | | 1 | E | | 33 | | |
| 0082 | LEAR | 06 | 0651 | 0651 | 0656 | S19 | E62 | 9690 | 11 | 11.0 | 5 | SF | | 2 | E | | 43 | | F |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0083 | | 06 | 07422 | 07471 | 0800 | S19 | E07 | 9687 | 11 | 6.8 | 18 | SF | | | | | 62 | | F |
| | LEAR | 06 | 0742 | 0748 | 0802 | S19 | E07 | 9687 | 11 | 6.8 | 20 | SF | | 2 | E | | 75 | | F |
| | SVTO | 06 | 0744 | 0747 | 0759 | S19 | E07 | 9687 | 11 | 6.8 | 15 | SF | | 3 | E | | 48 | | F |
| 0084 | SVTO | 06 | 0831 | 0831 | 0834 | S19 | E62 | 9690 | 11 | 11.1 | 3 | SF | | 3 | E | | 65 | | F |
| 0085 | LEAR | 06 | 0831 | 0831 | 0837 | S19 | E65 | 9690 | 11 | 11.3 | 6 | 1F | | 2 | E | | 123 | | F |
| | | 06 | 0953 | | 1030 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 1150 | | 1217 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 1234 | | 1255 | No Flare Patrol | | | | | | | | | | | | | |
| 0086 | RAMY | 06 | 1354 | 1358 | 1410 | S17 | E05 | 9687 | 11 | 6.9 | 16 | SF | | 3 | E | | 47 | | |
| 0087 | RAMY | 06 | 1453 | 1455 | 1459 | S17 | E56 | 9690 | 11 | 10.9 | 6 | SF | | 3 | E | | 39 | | |
| 0088 | RAMY | 06 | 1519 | 1533 | 1541 | S18 | E64 | 9690 | 11 | 11.5 | 22 | SF | | 3 | E | | 27 | | |
| | | 06 | 1622 | | 1656 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 1702 | | 1803 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 1818 | | 1840 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 1902 | | 1943 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 2002 | | 2010 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 | 2051 | | 2234 | No Flare Patrol | | | | | | | | | | | | | |
| 0089 | LEAR | 07 | 0112 | 0114 | 0118 | N10 | W55 | 9684 | 11 | 2.9 | 6 | SF | | 3 | E | | 15 | | F |
| 0090 | LEAR | 07 | 0142 | 0143 | 0150 | S18 | E54 | 9690 | 11 | 11.2 | 8 | SF | | 3 | E | | 14 | | |
| 0091 | | 07 | 0246 | 02518 | 0309 | S18 | E54 | 9690 | 11 | 11.2 | 23 | 1N | | | | | 104 | 2.3 | EF |
| | LEAR | 07 | 0246 | 0259 | 0309 | S19 | E53 | 9690 | 11 | 11.1 | 23 | SF | | 3 | E | | 94 | | F |
| | URUM | 07 | 0251E | 0251 | 0251D | S18 | E56 | 9690 | 11 | 11.4 | 23D | 1N | | | P | | 113 | 2.3 | E |
| 0092 | | 07 | 0429 | 04334 | 0444 | S20 | E52 | 9690 | 11 | 11.2 | 15 | 1N | | | | | 206 | 4.5 | EF |
| | LEAR | 07 | 0429 | 0433 | 0442 | S19 | E50 | 9690 | 11 | 11.0 | 13 | 1N | | 3 | E | | 187 | | F |
| | URUM | 07 | 0437E | 0437 | 0447 | S22 | E54 | 9690 | 11 | 11.3 | 10D | 1N | | | P | | 225 | 4.5 | E |
| 0093 | LEAR | 07 | 0444 | 0446 | 0455 | S19 | E52 | 9690 | 11 | 11.2 | 11 | SF | | 3 | E | | 78 | | F |
| 0094 | LEAR | 07 | 0455 | 0455 | 0459 | S19 | E55 | 9690 | 11 | 11.4 | 4 | SF | | 3 | E | | 53 | | F |
| 0095 | LEAR | 07 | 0438 | 0438 | 0441 | N09 | W57 | 9684 | 11 | 2.9 | 3 | SF | | 3 | E | | 35 | | |
| 0096 | LEAR | 07 | 0612 | 0613 | 0617 | S19 | E52 | 9690 | 11 | 11.2 | 5 | SF | | 3 | E | | 15 | | |
| 0097 | LEAR | 07 | 0631 | 0632 | 0639 | N13 | W86 | 9682 | 10 | 31.8 | 8 | SF | | 3 | E | | 69 | | |
| 0098 | LEAR | 07 | 0640 | 0643 | 0651 | N14 | W86 | 9682 | 10 | 31.8 | 11 | SF | | 3 | E | | 57 | | |
| 0099 | LEAR | 07 | 0640 | 0641 | 0647 | S19 | W04 | 9687 | 11 | 7.0 | 7 | SF | | 3 | E | | 27 | | F |
| 0100 | LEAR | 07 | 0650 | 0652 | 0701 | S19 | W06 | 9687 | 11 | 6.8 | 11 | SF | | 3 | E | | 21 | | F |
| 0101 | LEAR | 07 | 0725 | 0732 | 0741 | N05 | W21 | 9685 | 11 | 5.7 | 16 | SF | | 3 | E | | 15 | | F |
| 0102 | LEAR | 07 | 0931 | 0935 | 0946 | S18 | E58 | 9690 | 11 | 11.8 | 15 | SF | | 3 | E | | 32 | | F |
| | | 07 | 1006 | | 1017 | No Flare Patrol | | | | | | | | | | | | | |
| | | 07 | 1128 | | 1200 | No Flare Patrol | | | | | | | | | | | | | |
| 0103 | SVTO | 07 | 1201E | 1203 | 1212D | S19 | E47 | 9690 | 11 | 11.1 | 11D | SF | | 2 | E | | 75 | | |
| | | 07 | 1228 | | 1342 | No Flare Patrol | | | | | | | | | | | | | |
| 0104 | HOLL | 07 | 1504 | 1504 | 1512 | S18 | E48 | 9690 | 11 | 11.3 | 8 | SF | | 3 | E | | 11 | | F |
| 0105 | HOLL | 07 | 1529 | 1530 | 1547 | N07 | W03 | 9692 | 11 | 7.4 | 18 | SF | | 3 | E | | 27 | | FH |
| 0106 | HOLL | 07 | 1530 | 1530 | 1539 | S17 | E52 | 9690 | 11 | 11.6 | 9 | SF | | 3 | E | | 12 | | F |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0107 | HOLL | 07 | 1629 | 1630 | 1636 | S18 | E44 | 9690 | 11 | 11.0 | 7 | SF | | 3 | E | | 12 | | |
| 0108 | HOLL | 07 | 1651 | 1653 | 1702 | S18 | E43 | 9690 | 11 | 11.0 | 11 | SF | | 3 | E | | 25 | | |
| 0109 | HOLL | 07 | 1811 | 1811 | 1817 | S18 | E52 | 9690 | 11 | 11.7 | 6 | SF | | 3 | E | | 13 | | |
| 0110 | HOLL | 07 | 1933 | 1934 | 2121 | S17 | E44 | 9690 | 11 | 11.1 | 108 | 1N | | 3 | E | | 159 | | F |
| 0111 | HOLL | 07 | 2006 | 2006 | 2012 | N27 | E27 | 9688 | 11 | 9.9 | 6 | SF | | 3 | E | | 13 | | FH |
| 0112 | HOLL | 07 | 2123 | 2125 | 2129 | N06 | W24 | 9685 | 11 | 6.1 | 6 | SF | | 3 | E | | 10 | | F |
| 0113 | HOLL | 07 | 2143 | 2145 | 2150 | S18 | E46 | 9690 | 11 | 11.4 | 7 | SF | | 3 | E | | 16 | | F |
| 0114 | HOLL | 07 | 2153 | 2155 | 2159 | S17 | E40 | 9690 | 11 | 10.9 | 6 | SF | | 3 | E | | 34 | | |
| 0115 | HOLL | 07 | 2202 | 2204 | 2214 | S18 | E48 | 9690 | 11 | 11.6 | 12 | SF | | 3 | E | | 32 | | F |
| 0116 | HOLL | 07 | 2233 | 2235 | 2306 | S18 | E41 | 9690 | 11 | 11.1 | 33 | SF | | 3 | E | | 78 | | F |
| 0117 | LEAR | 07 | 2245 | 2246 | 2251 | S19 | E38 | 9690 | 11 | 10.8 | 6 | SF | | 3 | E | | 16 | | F |
| 0118 | HOLL | 07 | 2246 | 2246 | 2257 | N07 | W10 | 9692 | 11 | 7.2 | 11 | SF | | 3 | E | | 14 | | |
| 0119 | LEAR | 07 | 2329 | 2330 | 2333 | S18 | E37 | 9690 | 11 | 10.8 | 4 | SF | | 3 | E | | 16 | | |
| 0120 | LEAR | 08 | 0007 | 0007 | 0012 | S20 | W06 | 9687 | 11 | 7.5 | 5 | SF | | 3 | E | | 13 | | F |
| 0121 | LEAR | 08 | 0015 | 0016 | 0020 | S19 | E37 | 9690 | 11 | 10.8 | 5 | SF | | 3 | E | | 30 | | F |
| 0122 | LEAR | 08 | 0023 | 0023 | 0033 | S19 | E40 | 9690 | 11 | 11.1 | 10 | SF | | 3 | E | | 35 | | F |
| 0123 | LEAR | 08 | 0133 | 0133 | 0136 | S19 | E38 | 9690 | 11 | 11.0 | 3 | SF | | 3 | E | | 22 | | |
| 0124 | LEAR | 08 | 0201 | 0201 | 0204 | N07 | W11 | 9692 | 11 | 7.3 | 3 | SF | | 3 | E | | 13 | | |
| 0125 | LEAR | 08 | 0207 | 0208 | 0213 | S20 | W08 | 9687 | 11 | 7.5 | 6 | SF | | 3 | E | | 31 | | F |
| 0126 | LEAR | 08 | 0236 | 0239 | 0240 | N06 | W31 | 9685 | 11 | 5.8 | 4 | SF | | 3 | E | | 13 | | |
| 0127 | LEAR | 08 | 0311 | 0319 | 0325 | N07 | W12 | 9692 | 11 | 7.2 | 14 | SF | | 3 | E | | 11 | | |
| 0128 | LEAR | 08 | 0318 | 0320 | 0324 | S18 | E39 | 9690 | 11 | 11.1 | 6 | SF | | 3 | E | | 23 | | |
| 0129 | LEAR | 08 | 0351 | 0402 | 0503 | S17 | E38 | 9690 | 11 | 11.0 | 72 | SF | | 3 | E | | 81 | | F |
| 0130 | LEAR | 08 | 0526 | 0527 | 0533 | S20 | W10 | 9687 | 11 | 7.5 | 7 | SF | | 3 | E | | 49 | | F |
| 0131 | URUM | 08 | 0529E | 0529 | 0529D | S19 | W03 | 9687 | 11 | 8.0 | 7D | 1N | | | P | | 354 | 4.0 | E |
| 0132 | LEAR | 08 | 0600 | 0602 | 0623 | N06 | W33 | 9685 | 11 | 5.8 | 23 | SF | | 3 | E | | 62 | | F |
| 0133 | LEAR | 08 | 0625 | 0627 | 0635 | N06 | W32 | 9685 | 11 | 5.9 | 10 | SF | | 3 | E | | 32 | | F |
| 0134 | LEAR | 08 | 0704E | 0704U | 0727 | S19 | W19 | 9687 | 11 | 6.8 | 23D | 1N | | 3 | E | | 239 | | FH |
| 0135 | LEAR | 08 | 0750 | 0751 | 0754 | S18 | E33 | 9690 | 11 | 10.8 | 4 | SF | | 3 | E | | 39 | | |
| 0136 | SVTO | 08 | 1000 | 1000 | 1004 | S18 | E41 | 9690 | 11 | 11.5 | 4 | SF | | 3 | E | | 12 | | |
| 0137 | SVTO | 08 | 1006 | 1010U | 1018 | S16 | E32 | 9690 | 11 | 10.8 | 12 | SF | | 3 | E | | 36 | | F |
| 0138 | SVTO | 08 | 1018 | 1018 | 1025 | S20 | W19 | 9687 | 11 | 7.0 | 7 | SF | | 3 | E | | 47 | | |
| | | 08 | 1026 | | 1212 | No Flare Patrol | | | | | | | | | | | | | |
| 0139 | SVTO | 08 | 1213E | 1225U | 1319 | S17 | E36 | 9690 | 11 | 11.2 | 66D | SF | | 3 | E | | 93 | | F |
| | | 08 | 1401 | | 1402 | No Flare Patrol | | | | | | | | | | | | | |

NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | CMP Day | Dur (Min) | Imp Opt | Imp Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0140 | HOLL | 08 | 1501 | 1534 | 1625 | S17 | E36 | 9690 | 11 | 11.4 | 84 | 2F | | 3 | E | | 305 | | FH |
| 0141 | HOLL | 08 | 1542 | 1546 | 1558 | N09 | W16 | 9692 | 11 | 7.4 | 16 | SF | | 3 | E | | 22 | | |
| | | 08 | 1633 | | 1651 | No Flare Patrol | | | | | | | | | | | | | |
| 0142 | HOLL | 08 | 1902 | 1903 | 1914 | S19 | W25 | 9687 | 11 | 6.9 | 12 | SN | | 3 | E | | 69 | | H |
| 0143 | HOLL | 08 | 1906 | 1908 | 1910 | N07 | W78 | 9684 | 11 | 2.9 | 4 | SF | | 3 | E | | 23 | | |
| 0144 | HOLL | 08 | 1934 | 1937 | 1944 | N08 | W22 | 9692 | 11 | 7.2 | 10 | SF | | 3 | E | | 24 | | F |
| 0145 | HOLL | 08 | 2026 | 2034 | 2042 | S18 | E37 | 9690 | 11 | 11.7 | 16 | SF | | 3 | E | | 25 | | F |
| 0146 | HOLL | 08 | 2113 | 2151 | 2300D | S17 | E31 | 9690 | 11 | 11.2 | 107D | SF | | 3 | E | | 48 | | |
| 0147 | LEAR | 09 | 0121 | 0122 | 0142 | N07 | W26 | 9692 | 11 | 7.1 | 21 | SF | | 3 | E | | 17 | | F |
| 0148 | LEAR | 09 | 0115 | 0127 | 0209 | S19 | E27 | 9690 | 11 | 11.1 | 54 | 1F | | 3 | E | | 150 | | F |
| 0149 | URUM | 09 | 0207E | 0207 | 0207D | S16 | E30 | 9690 | 11 | 11.4 | 54D | 1N | | | P | | 273 | 3.5 | E |
| 0150 | URUM | 09 | 0321E | 0321 | 0321D | S15 | E29 | 9690 | 11 | 11.3 | 54D | 1N | | | P | | 193 | 2.4 | E |
| 0151 | LEAR | 09 | 0348 | 0348 | 0401 | S19 | E24 | 9690 | 11 | 11.0 | 13 | SF | | 3 | E | | 25 | | F |
| 0152 | | 09 | 05218 | 05392 | 0600 | S19 | E26 | 9690 | 11 | 11.2 | 39 | 2N | | | | | 356 | 6.4 | EF |
| | LEAR | 09 | 0521 | 0539 | 0604 | S18 | E25 | 9690 | 11 | 11.1 | 43 | 1F | | 3 | E | | 199 | | F |
| | URUM | 09 | 0529 | 0541 | 0555 | S20 | E26 | 9690 | 11 | 11.2 | 26 | 2B | | | C | | 514 | 6.4 | E |
| 0153 | URUM | 09 | 0610 | 0614 | 0618 | S19 | E37 | 9690 | 11 | 12.1 | 8 | 1N | | | C | | 225 | 3.2 | E |
| 0154 | | 09 | 0626 | 06282 | 0632 | S16 | E24 | 9690 | 11 | 11.1 | 6 | SN | | | | | 55 | 1.1 | DF |
| | LEAR | 09 | 0626 | 0628 | 0632 | S17 | E24 | 9690 | 11 | 11.1 | 6 | SF | | 3 | E | | 40 | | F |
| | SVTO | 09 | 0628E | 0630U | 0632D | S15 | E25 | 9690 | 11 | 11.2 | 4D | SF | | 2 | E | | 28 | | |
| | URUM | 09 | 0630E | 0630 | 0630D | S15 | E24 | 9690 | 11 | 11.1 | 4D | SB | | | P | | 96 | 1.1 | D |
| 0155 | LEAR | 09 | 0744 | 0745 | 0749 | S16 | E23 | 9690 | 11 | 11.1 | 5 | SF | | 3 | E | | 21 | | F |
| 0156 | SVTO | 09 | 0804 | 0812 | 0820 | S18 | E25 | 9690 | 11 | 11.2 | 16 | SF | | 3 | E | | 40 | | |
| 0157 | SVTO | 09 | 0813 | 0816 | 0824 | N07 | W25 | 9692 | 11 | 7.5 | 11 | SF | | 3 | E | | 23 | | |
| 0158 | | 09 | 08339 | 0857 | 1013 | S18 | E26 | 9690 | 11 | 11.3 | 100 | 1N | | | | | 317 | 6.1 | EFH |
| | SVTO | 09 | 0833 | 0855U | 1038 | S18 | E26 | 9690 | 11 | 11.3 | 125 | 1N | | 3 | E | | 247 | | H |
| | LEAR | 09 | 0842 | 0857 | 1001 | S18 | E23 | 9690 | 11 | 11.1 | 79 | 1F | | 3 | E | | 221 | | FH |
| | URUM | 09 | 0855E | 0855U | 1000 | S19 | E28 | 9690 | 11 | 11.5 | 65D | 2N | | | P | | 482 | 6.1 | E |
| 0159 | SVTO | 09 | 1039 | 1049U | 1055 | S19 | E23 | 9690 | 11 | 11.2 | 16 | SF | | 3 | E | | 25 | | |
| 0160 | SVTO | 09 | 1242 | 1243 | 1247 | S19 | E17 | 9690 | 11 | 10.8 | 5 | SF | | 3 | E | | 10 | | F |
| | | 09 | 1320 | | 1326 | No Flare Patrol | | | | | | | | | | | | | |
| | | 09 | 1345 | | 1412 | No Flare Patrol | | | | | | | | | | | | | |
| | | 09 | 1433 | | 1444 | No Flare Patrol | | | | | | | | | | | | | |
| | | 09 | 1458 | | 1841 | No Flare Patrol | | | | | | | | | | | | | |
| 0161 | HOLL | 09 | 1845 | 1846 | 1856 | S21 | W42 | 9687 | 11 | 6.6 | 11 | SF | | 3 | E | | 21 | | |
| 0162 | HOLL | 09 | 1845 | 1902 | 1943 | S27 | W47 | 9689 | 11 | 6.1 | 58 | 2F | | 3 | E | | 389 | | FU |
| | | 09 | 1957 | | 2227 | No Flare Patrol | | | | | | | | | | | | | |
| | | 10 | 0031 | | 0044 | No Flare Patrol | | | | | | | | | | | | | |
| 0163 | | 10 | 0046 | 0050 | 0106 | S17 | E20 | 9690 | 11 | 11.5 | 20 | 1F | | | | | 109 | 2.2 | F |
| | LEAR | 10 | 0046 | 0048U | 0107 | S17 | E22 | 9690 | 11 | 11.7 | 21 | SF | | 2 | E | | 30 | | F |
| | VORO | 10 | 0047E | 0050 | 0106 | S17 | E19 | 9690 | 11 | 11.5 | 19D | 1F | | 3 | C | 0050 | 188 | 2.2 | |
| | | 10 | 0250 | | 0258 | No Flare Patrol | | | | | | | | | | | | | |

# Hα SOLAR FLARES

## NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | CMP Day | Dur (Min) | Imp Opt | Imp Xray | Obs See | Obs Type | Area Measurement Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0164 | | 10 | 06315 | 0643 | 0715 | S20 | E10 | 9690 | 11 | 11.0 | 44 | 1N | | | | | 285 | 5.8 | EF |
| | URUM | 10 | 0631 | 0643 | 0714 | S20 | E13 | 9690 | 11 | 11.3 | 43 | 2N | | | C | | 498 | 5.8 | E |
| | LEAR | 10 | 0636 | 0643 | 0716 | S20 | E08 | 9690 | 11 | 10.9 | 40 | SF | | 3 | E | | 72 | | F |
| 0165 | LEAR | 10 | 0908 | 0910 | 0929 | S27 | W56 | 9689 | 11 | 6.0 | 21 | SF | | 3 | E | | 31 | | F |
| 0166 | URUM | 10 | 0912 | 0914 | 0929 | S25 | W49 | 9689 | 11 | 6.6 | 17 | 1N | | | P | | 129 | 2.3 | E |
| 0167 | URUM | 10 | 0925E | 0925 | 0929 | N06 | W41 | 9692 | 11 | 7.3 | 4D | 1N | | | P | | 225 | 3.1 | E |
| 0168 | LEAR | 10 | 0918 | 0919 | 0932 | S18 | E14 | 9690 | 11 | 11.4 | 14 | SF | | 3 | E | | 22 | | F |
| 0169 | URUM | 10 | 0925 | 0929 | 0929D | S15 | E17 | 9690 | 11 | 11.7 | 4D | 1N | | | P | | 193 | 2.2 | E |
| | | 10 | 0957 | | 1222 | No Flare Patrol | | | | | | | | | | | | | |
| | | 10 | 1228 | | 1310 | No Flare Patrol | | | | | | | | | | | | | |
| 0170 | SVTO | 10 | 1319E | 1319U | 1332D | S19 | E07 | 9690 | 11 | 11.1 | 13D | SF | | 2 | E | | 20 | | F |
| | | 10 | 1322 | | 1331 | No Flare Patrol | | | | | | | | | | | | | |
| | | 10 | 1342 | | 1355 | No Flare Patrol | | | | | | | | | | | | | |
| | | 10 | 1401 | | 1515 | No Flare Patrol | | | | | | | | | | | | | |
| | | 10 | 1519 | | 1559 | No Flare Patrol | | | | | | | | | | | | | |
| | | 10 | 1737 | | 2011 | No Flare Patrol | | | | | | | | | | | | | |
| 0171 | HOLL | 10 | 2011E | 2013U | 2044D | S18 | E05 | 9690 | 11 | 11.2 | 33D | 1F | | 3 | E | | 127 | | |
| | | 10 | 2046 | | 2232 | No Flare Patrol | | | | | | | | | | | | | |
| 0172 | LEAR | 10 | 2358 | | 0005 | S17 | E09 | 9690 | 11 | 11.7 | 7 | SF | | 3 | E | | 11 | | |
| 0173 | LEAR | 11 | 0032 | 0033 | 0041 | N15 | W65 | 9686 | 11 | 6.1 | 9 | SF | | 3 | E | | 27 | | |
| 0174 | LEAR | 11 | 0559 | 0600 | 0605 | S19 | W02 | 9690 | 11 | 11.1 | 6 | SF | | 3 | E | | 11 | | |
| 0175 | LEAR | 11 | 0607 | 0615 | 0658 | S18 | W02 | 9690 | 11 | 11.1 | 51 | SF | | 3 | E | | 25 | | F |
| 0176 | LEAR | 11 | 0655 | 0700 | 0710 | N07 | W63 | 9692 | 11 | 6.6 | 15 | SF | | 3 | E | | 31 | | F |
| 0177 | LEAR | 11 | 0815 | 0816 | 0826 | N05 | W58 | 9692 | 11 | 7.0 | 11 | SF | | 3 | E | | 39 | | |
| 0178 | SVTO | 11 | 1025 | 1026 | 1030 | N06 | W59 | 9692 | 11 | 7.0 | 5 | SF | | 3 | E | | 26 | | |
| 0179 | SVTO | 11 | 1057 | 1058U | 1116D | S17 | E05 | 9690 | 11 | 11.8 | 19D | SF | | 2 | E | | 68 | | F |
| | | 11 | 1118 | | 1125 | No Flare Patrol | | | | | | | | | | | | | |
| | | 11 | 1135 | | 1152 | No Flare Patrol | | | | | | | | | | | | | |
| | | 11 | 1202 | | 1229 | No Flare Patrol | | | | | | | | | | | | | |
| 0180 | RAMY | 11 | 1237 | 1312 | 1344 | S18 | W03 | 9690 | 11 | 11.3 | 67 | SF | | 3 | E | | 30 | | F |
| 0181 | RAMY | 11 | 1407 | 1408 | 1412 | S20 | W45 | 9687 | 11 | 8.1 | 5 | SF | | 3 | E | | 24 | | |
| 0182 | | 11 | 15231 | 15404 | 1607 | S19 | W02 | 9690 | 11 | 11.5 | 44 | 1F | | | | | 60 | | F |
| | HOLL | 11 | 1523 | 1544 | 1606 | S20 | W02 | 9690 | 11 | 11.5 | 43 | 1F | | 3 | E | | 104 | | F |
| | RAMY | 11 | 1524 | 1540 | 1608 | S18 | W03 | 9690 | 11 | 11.4 | 44 | 1F | | 3 | E | | 15 | | F |
| 0183 | | 11 | 1722 | 1722 | 1726 | S18 | W06 | 9690 | 11 | 11.3 | 4 | SF | | | | | 18 | | F |
| | RAMY | 11 | 1722 | 1722 | 1725 | S19 | W08 | 9690 | 11 | 11.1 | 3 | SF | | 3 | E | | 16 | | F |
| | HOLL | 11 | 1722 | 1722 | 1726 | S16 | W05 | 9690 | 11 | 11.3 | 4 | SF | | 3 | E | | 20 | | F |
| 0184 | | 11 | 17421 | 17542 | 1812 | S18 | W07 | 9690 | 11 | 11.2 | 30 | SF | | | | | 52 | | F |
| | HOLL | 11 | 1742 | 1756 | 1816 | S18 | W08 | 9690 | 11 | 11.1 | 34 | SF | | 3 | E | | 67 | | F |
| | RAMY | 11 | 1743 | 1754 | 1807 | S18 | W06 | 9690 | 11 | 11.3 | 24 | SF | | 3 | E | | 36 | | F |
| 0185 | | 11 | 18571 | 1902 | 1918 | S19 | W08 | 9690 | 11 | 11.2 | 21 | SF | | | | | 21 | | F |
| | HOLL | 11 | 1857 | 1902 | 1930 | S19 | W08 | 9690 | 11 | 11.2 | 33 | SF | | 3 | E | | 27 | | F |
| | RAMY | 11 | 1858 | 1902 | 1907 | S19 | W09 | 9690 | 11 | 11.1 | 9 | SF | | 3 | E | | 15 | | F |

NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0186 | RAMY | 11 | 1911 | 1914 | 1929 | S18 | W07 | 9690 | 11 | 11.3 | 18 | SF | | 3 | E | | 18 | | F |
| 0187 | | 12 | 01102 | 01141 | 0116 | N09 | W62 | 9692 | 11 | 7.4 | 6 | SN | | | | | 51 | 1.8 | F |
| | VORO | 12 | 0110 | 0114 | 0114 | N10 | W62 | 9692 | 11 | 7.4 | 4 | SN | | 3 | C | 0114 | 81 | 1.8 | |
| | LEAR | 12 | 0112 | 0115 | 0119 | N08 | W62 | 9692 | 11 | 7.4 | 7 | SF | | 3 | E | | 21 | | F |
| 0188 | LEAR | 12 | 0206 | 0207 | 0212 | S17 | W04 | 9690 | 11 | 11.8 | 6 | SF | | 3 | E | | 19 | | F |
| 0189 | LEAR | 12 | 0250 | 0304 | 0324 | N07 | W73 | 9692 | 11 | 6.6 | 34 | SF | | 3 | E | | 57 | | F |
| 0190 | LEAR | 12 | 0253 | 0254 | 0303 | N13 | E72 | 9697 | 11 | 17.5 | 10 | SF | | 3 | E | | 18 | | |
| 0191 | LEAR | 12 | 0347 | 0355 | 0400 | N13 | E71 | 9697 | 11 | 17.5 | 13 | SF | | 3 | E | | 18 | | |
| 0192 | URUM | 12 | 0635 | 0639 | 0643 | S18 | W06 | 9690 | 11 | 11.8 | 8 | SN | | | C | | 96 | 1.1 | D |
| 0193 | URUM | 12 | 0635E | 0635 | 0635D | S17 | W20 | 9690 | 11 | 10.7 | 8D | 1N | | | P | | 209 | 2.4 | E |
| 0194 | LEAR | 12 | 0736 | 0736 | 0740 | S17 | W07 | 9690 | 11 | 11.8 | 4 | SF | | 3 | E | | 17 | | F |
| 0195 | | 12 | 0755 | 0756 | 0816 | N07 | W72 | 9692 | 11 | 6.9 | 21 | 1B | | | | | 142 | | EF |
| | LEAR | 12 | 0755 | 0756 | 0816 | N07 | W74 | 9692 | 11 | 6.8 | 21 | 1B | | 3 | E | | 155 | | FE |
| | URUM | 12 | 0756E | 0756 | 0756D | N07 | W71 | 9692 | 11 | 7.0 | 21D | 1B | | | P | | 129 | | E |
| | | 12 | 1006 | | 1346 | No Flare Patrol | | | | | | | | | | | | | |
| 0196 | RAMY | 12 | 1355 | 1400 | 1410 | S16 | W16 | 9690 | 11 | 11.4 | 15 | SF | | 3 | E | | 25 | | |
| 0197 | HOLL | 12 | 2042 | 2042 | 2045 | S16 | W16 | 9690 | 11 | 11.6 | 3 | SF | | 3 | E | | 16 | | F |
| 0198 | HOLL | 12 | 2154 | 2155 | 2157 | S16 | W16 | 9690 | 11 | 11.7 | 3 | SF | | 3 | E | | 15 | | F |
| | | 12 | 2207 | | 2320 | No Flare Patrol | | | | | | | | | | | | | |
| 0199 | VORO | 12 | 2321 | 2323 | 2343 | N22 | E43 | 9703 | 11 | 16.3 | 22 | SN | | 3 | C | 2323 | 108 | 1.6 | |
| 0200 | LEAR | 13 | 0259 | 0300 | 0303 | S18 | W65 | 9687 | 11 | 8.2 | 4 | SF | | 3 | E | | 20 | | F |
| 0201 | LEAR | 13 | 0403 | 0404 | 0406 | S16 | W23 | 9690 | 11 | 11.4 | 3 | SF | | 2 | E | | 16 | | F |
| 0202 | URUM | 13 | 0434E | 0434 | 0434D | S19 | W21 | 9690 | 11 | 11.6 | 3D | 1N | | | P | | 241 | 2.9 | E |
| 0203 | URUM | 13 | 0607E | 0607 | 0607D | S02 | E38 | 9696 | 11 | 16.1 | 3D | 1N | | | P | | 161 | 2.1 | E |
| 0204 | | 13 | 0625 | 06261 | 0638 | S16 | W25 | 9690 | 11 | 11.4 | 13 | SB | | | | | 64 | 0.8 | CEF |
| | LEAR | 13 | 0625 | 0626 | 0638 | S17 | W24 | 9690 | 11 | 11.4 | 13 | SN | | 3 | E | | 63 | | FE |
| | URUM | 13 | 0627E | 0627 | 0627D | S16 | W26 | 9690 | 11 | 11.3 | 13D | SB | | | P | | 64 | 0.8 | C |
| 0205 | LEAR | 13 | 0713 | 0714 | 0722 | S17 | W22 | 9690 | 11 | 11.6 | 9 | SF | | 2 | E | | 14 | | F |
| | | 13 | 0912 | | 0920 | No Flare Patrol | | | | | | | | | | | | | |
| 0206 | | 13 | 0922 | 0924 | 0936 | S18 | W26 | 9690 | 11 | 11.4 | 14 | SF | | | | | 45 | | F |
| | LEAR | 13 | 0922 | 0924 | 0936 | S17 | W26 | 9690 | 11 | 11.4 | 14 | SF | | 1 | E | | 65 | | F |
| | SVTO | 13 | 0923E | 0925U | 1005D | S20 | W25 | 9690 | 11 | 11.5 | 42D | SF | | 3 | E | | 25 | | |
| | | 13 | 0939 | | 0955 | No Flare Patrol | | | | | | | | | | | | | |
| 0207 | RAMY | 13 | 1146 | 1148 | 1159 | S17 | W24 | 9690 | 11 | 11.7 | 13 | SF | | 3 | E | | 53 | | F |
| | | 13 | 1244 | | 1300 | No Flare Patrol | | | | | | | | | | | | | |
| 0208 | | 13 | 18402 | 18412 | 1847 | S20 | W34 | 9690 | 11 | 11.2 | 7 | SF | | | | | 40 | | FH |
| | RAMY | 13 | 1840 | 1841 | 1930D | S20 | W36 | 9690 | 11 | 11.0 | 50D | SF | | 3 | E | | 50 | | FH |
| | HOLL | 13 | 1842 | 1843 | 1847 | S19 | W33 | 9690 | 11 | 11.3 | 5 | SF | | 3 | E | | 30 | | |
| 0209 | HOLL | 13 | 1849 | 1849 | 1852 | S19 | W33 | 9690 | 11 | 11.3 | 3 | SF | | 3 | E | | 34 | | F |
| 0210 | HOLL | 13 | 1859 | 1912 | 1940 | S19 | W35 | 9690 | 11 | 11.1 | 41 | SF | | 3 | E | | 32 | | F |

# Hα SOLAR FLARES

## NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 13 | 1943 | | 1957 | No Flare Patrol | | | | | | | | | | | | | |
| | | 13 | 2007 | | 2048 | No Flare Patrol | | | | | | | | | | | | | |
| 0211 | HOLL | 13 | 2106 | 2106 | 2109 | S20 | W33 | 9690 | 11 | 11.3 | 3 | SF | | 3 | E | | 25 | | |
| | | 13 | 2112 | | 2144 | No Flare Patrol | | | | | | | | | | | | | |
| | | 13 | 2202 | | 2222 | No Flare Patrol | | | | | | | | | | | | | |
| | | 13 | 2229 | | 2247 | No Flare Patrol | | | | | | | | | | | | | |
| 0212 | | 14 | 00531 | 0058 | 0112 | N12 | E46 | 9697 | 11 | 17.5 | 19 | 1N | | | | | 220 | 4.3 | F |
| | VORO | 14 | 0053 | 0058 | 0114 | N12 | E45 | 9697 | 11 | 17.4 | 21 | 1N | | 3 | C | 0058 | 296 | 4.3 | |
| | LEAR | 14 | 0054 | 0058U | 0110 | N13 | E46 | 9697 | 11 | 17.5 | 16 | 1F | | 3 | E | | 144 | | F |
| | | 14 | 0131 | | 0320 | No Flare Patrol | | | | | | | | | | | | | |
| 0213 | LEAR | 14 | 0654 | 0657 | 0702 | N14 | E43 | 9697 | 11 | 17.5 | 8 | SF | | 2 | E | | 15 | | F |
| 0214 | LEAR | 14 | 0659 | 0700 | 0704 | S16 | W35 | 9690 | 11 | 11.6 | 5 | SF | | 2 | E | | 15 | | F |
| 0215 | LEAR | 14 | 0721 | 0721 | 0729 | S18 | W40 | 9690 | 11 | 11.3 | 8 | SF | | 2 | E | | 16 | | F |
| 0216 | LEAR | 14 | 0922 | 0922 | 0930 | S18 | W39 | 9690 | 11 | 11.4 | 8 | SF | | 1 | E | | 59 | | F |
| | | 14 | 0935 | | 1116 | No Flare Patrol | | | | | | | | | | | | | |
| 0217 | RAMY | 14 | 1352 | 1356 | 1408 | S17 | W37 | 9690 | 11 | 11.8 | 16 | SF | | 3 | E | | 52 | | |
| 0218 | HOLL | 14 | 1516 | 1516 | 1524 | N07 | E39 | 9697 | 11 | 17.5 | 8 | SF | | 3 | E | | 15 | | F |
| | | 14 | 1539 | | 1601 | No Flare Patrol | | | | | | | | | | | | | |
| | | 14 | 1611 | | 1616 | No Flare Patrol | | | | | | | | | | | | | |
| | | 14 | 1624 | | 1645 | No Flare Patrol | | | | | | | | | | | | | |
| 0219 | HOLL | 14 | 1649 | 1651 | 1656 | S18 | W42 | 9690 | 11 | 11.5 | 7 | SF | | 3 | E | | 34 | | F |
| 0220 | | 14 | 16591 | 17013 | 1730 | S19 | W48 | 9690 | 11 | 11.0 | 31 | SF | | | | | 57 | | F |
| | HOLL | 14 | 1659 | 1701 | 1730 | S19 | W48 | 9690 | 11 | 11.0 | 31 | SF | | 3 | E | | 68 | | F |
| | RAMY | 14 | 1700 | 1704 | 1751D | S19 | W49 | 9690 | 11 | 11.0 | 51D | SF | | 3 | E | | 46 | | |
| 0221 | HOLL | 14 | 1811 | 1815 | 1829 | S21 | E70 | 9704 | 11 | 20.1 | 18 | SF | | 3 | E | | 21 | | |
| 0222 | HOLL | 14 | 2055 | 2056 | 2100 | S14 | E65 | 9704 | 11 | 19.8 | 5 | SF | | 3 | E | | 31 | | |
| 0223 | HOLL | 14 | 2201 | 2207 | 2244 | S19 | W49 | 9690 | 11 | 11.2 | 43 | 1F | | 3 | E | | 201 | | FH |
| 0224 | HOLL | 14 | 2245 | 2245 | 2250 | S22 | W55 | 9690 | 11 | 10.7 | 5 | SF | | 3 | E | | 16 | | |
| 0225 | LEAR | 14 | 2357 | 0005 | 0016 | N22 | E15 | 9703 | 11 | 16.1 | 19 | SF | | 3 | E | | 56 | | |
| 0226 | | 15 | 01141 | 01174 | 0136 | S16 | W46 | 9690 | 11 | 11.6 | 22 | SN | | | | | 62 | 1.4 | |
| | VORO | 15 | 0114 | 0121 | 0129D | S15 | W46 | 9690 | 11 | 11.6 | 15D | SN | | 3 | C | 0121 | 90 | 1.4 | |
| | LEAR | 15 | 0115 | 0117 | 0136 | S16 | W46 | 9690 | 11 | 11.6 | 21 | SF | | 3 | E | | 35 | | |
| 0227 | | 15 | 06241 | 06266 | 0634 | N22 | E12 | 9703 | 11 | 16.2 | 10 | 1N | | | | | 109 | 2.1 | EF |
| | URUM | 15 | 0624 | 0632 | 0632D | N21 | E12 | 9703 | 11 | 16.2 | 8D | 1N | | | P | | 193 | 2.1 | E |
| | LEAR | 15 | 0625 | 0626 | 0634 | N22 | E11 | 9703 | 11 | 16.1 | 9 | SF | | 3 | E | | 25 | | F |
| 0228 | SVTO | 15 | 0718E | 0718 | 0727D | S19 | W53 | 9690 | 11 | 11.2 | 9D | SF | | 2 | E | | 18 | | F |
| 0229 | LEAR | 15 | 0739 | 0740 | 0745 | S18 | W54 | 9690 | 11 | 11.2 | 6 | SF | | 3 | E | | 12 | | |
| | | 15 | 1024 | | 1026 | No Flare Patrol | | | | | | | | | | | | | |
| 0230 | SVTO | 15 | 1124 | 1124 | 1130 | S15 | E65 | 9704 | 11 | 20.4 | 6 | SF | | 3 | E | | 14 | | |
| | | 15 | 1354 | | 1443 | No Flare Patrol | | | | | | | | | | | | | |
| 0231 | RAMY | 15 | 1720 | 1722 | 1743 | S17 | W53 | 9690 | 11 | 11.7 | 23 | SF | | 3 | E | | 14 | | F |
| | | 15 | 1939 | | 1949 | No Flare Patrol | | | | | | | | | | | | | |

NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 15 | 1956 | | 2134 | No Flare Patrol | | | | | | | | | | | | | |
| | | 15 | 2141 | | 2238 | No Flare Patrol | | | | | | | | | | | | | |
| | | 15 | 2253 | | 2319 | No Flare Patrol | | | | | | | | | | | | | |
| | | 15 | 2334 | | 2400 | No Flare Patrol | | | | | | | | | | | | | |
| 0232 | VORO | 15 | 2353 | 2405 | 2429 | N23 | E14 | | 11 | 17.1 | 36 | 1B | | 3 | C | 0005 | 251 | 2.8 | |
| | | 16 | 0000 | | 0006 | No Flare Patrol | | | | | | | | | | | | | |
| | | 16 | 0101 | | 0210 | No Flare Patrol | | | | | | | | | | | | | |
| 0233 | URUM | 16 | 0541E | 0541 | 0541D | S24 | E21 | 9698 | 11 | 17.8 | 36D | SN | | | P | | 96 | 1.2 | E |
| 0234 | URUM | 16 | 0619 | 0631U | 0643 | S06 | W01 | 9696 | 11 | 16.2 | 24 | SN | | | P | | 193 | 2.0 | E |
| | | 16 | 1014 | | 1105 | No Flare Patrol | | | | | | | | | | | | | |
| 0235 | HOLL | 16 | 2142 | 2143 | 2209 | N16 | E09 | 9697 | 11 | 17.6 | 27 | 1F | | 3 | E | | 110 | | F |
| | | 16 | 2202 | | 2206 | No Flare Patrol | | | | | | | | | | | | | |
| | | 16 | 2313 | | 2400 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 | 0000 | | 0044 | No Flare Patrol | | | | | | | | | | | | | |
| 0236 | LEAR | 17 | 0448 | 0505 | 0938 | S13 | E42 | 9704 | 11 | 20.4 | 290 | 1N | | 2 | E | | 194 | | FZ |
| 0237 | URUM | 17 | 0529E | 0529U | 0637 | S14 | E39 | 9704 | 11 | 20.2 | 68D | 2N | | | P | | 514 | 7.1 | E |
| 0238 | SVTO | 17 | 0638E | 0723U | 1155 | S13 | E37 | 9704 | 11 | 20.1 | 317D | 1F | | 3 | E | | 217 | | F |
| 0239 | URUM | 17 | 0730 | 0748 | 0748D | S14 | E39 | 9704 | 11 | 20.2 | 18D | 2N | | | P | | 530 | 7.3 | E |
| 0240 | SVTO | 17 | 1227 | 1236 | 1244 | S14 | E33 | 9704 | 11 | 20.0 | 17 | SF | | 3 | E | | 10 | | F |
| 0241 | RAMY | 17 | 1535 | 1535 | 1554 | N15 | W01 | 9697 | 11 | 17.6 | 19 | SF | | 3 | E | | 14 | | F |
| 0242 | HOLL | 17 | 1632 | 1639 | 1655 | S15 | E34 | 9704 | 11 | 20.3 | 23 | SF | | 3 | E | | 11 | | F |
| 0243 | HOLL | 17 | 1807 | 1809 | 1813 | S14 | E32 | 9704 | 11 | 20.2 | 6 | SF | | 3 | E | | 18 | | F |
| 0244 | HOLL | 17 | 2254 | 2255 | 2305 | N14 | W02 | 9697 | 11 | 17.8 | 11 | SF | | 3 | E | | 19 | | F |
| 0245 | LEAR | 17 | 2327 | 2328 | 2345 | S16 | E28 | 9704 | 11 | 20.1 | 18 | SF | | 2 | E | | 12 | | F |
| 0246 | LEAR | 18 | 0045 | 0046 | 0050 | S16 | E29 | 9704 | 11 | 20.2 | 5 | SF | | 3 | E | | 16 | | F |
| 0247 | LEAR | 18 | 0219 | 0219 | 0226 | S16 | E27 | 9704 | 11 | 20.1 | 7 | SF | | 2 | E | | 19 | | F |
| 0248 | URUM | 18 | 0544E | 0544 | 0544D | N12 | W07 | 9697 | 11 | 17.7 | 7D | 1N | | | P | | 225 | 2.4 | E |
| 0249 | URUM | 18 | 0544E | 0544 | 0544D | S13 | E27 | 9704 | 11 | 20.3 | 7D | 1N | | | P | | 370 | 4.4 | E |
| 0250 | LEAR | 18 | 0604 | 0607 | 0616 | N13 | W07 | 9697 | 11 | 17.7 | 12 | SF | | 2 | E | | 16 | | F |
| 0251 | URUM | 18 | 0610 | 0615 | 0619D | N12 | W07 | 9697 | 11 | 17.7 | 9D | SN | | | P | | 161 | 1.7 | E |
| 0252 | LEAR | 18 | 0703 | 0705 | 0712 | S18 | E25 | 9704 | 11 | 20.2 | 9 | SF | | 2 | E | | 20 | | F |
| 0253 | LEAR | 18 | 0837 | 0839 | 0857 | N11 | W09 | 9697 | 11 | 17.7 | 20 | SF | | 1 | E | | 17 | | F |
| 0254 | | 18 | 0917 | 0918 | 0928 | S20 | E24 | 9704 | 11 | 20.2 | 11 | SN | | | | | 80 | | F |
| | LEAR | 18 | 0917 | 0918 | 0927 | S19 | E23 | 9704 | 11 | 20.1 | 10 | SF | | 2 | E | | 84 | | F |
| | SVTO | 18 | 0917 | 0918 | 0929 | S22 | E25 | 9704 | 11 | 20.3 | 12 | SN | | 3 | E | | 75 | | F |
| | | 18 | 1906 | | 1907 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 | 2214 | | 2229 | No Flare Patrol | | | | | | | | | | | | | |
| 0255 | LEAR | 19 | 0234 | 0234 | 0238 | S14 | E15 | 9704 | 11 | 20.2 | 4 | SF | | 3 | E | | 17 | | |
| 0256 | LEAR | 19 | 0650 | 0701 | 0742 | S18 | E11 | 9704 | 11 | 20.1 | 52 | SF | | 3 | E | | 51 | | F |

# Hα SOLAR FLARES

## NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0257 | URUM | 19 | 0712E | 0712 | 0712D | S14 | E11 | 9704 | 11 | 20.1 | 52D | 1N | | | P | | 209 | 2.3 | E |
| | | 19 | 1022 | | 1426 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 | 1643 | | 1647 | No Flare Patrol | | | | | | | | | | | | | |
| 0258 | RAMY | 19 | 1854 | 1854 | 1900 | N14 | W29 | 9697 | 11 | 17.6 | 6 | SF | | 3 | E | | 13 | | F |
| 0259 | RAMY | 19 | 1938 | 1938 | 1944 | S17 | E03 | 9704 | 11 | 20.0 | 6 | SF | | 3 | E | | 15 | | F |
| 0260 | RAMY | 19 | 1957 | 1957 | 2001 | S21 | E04 | 9704 | 11 | 20.1 | 4 | SF | | 3 | E | | 16 | | |
| 0261 | RAMY | 19 | 2002 | 2010 | 2030 | S19 | E04 | 9704 | 11 | 20.1 | 28 | SF | | 3 | E | | 73 | | FH |
| | | 19 | 2114 | | 2221 | No Flare Patrol | | | | | | | | | | | | | |
| 0262 | LEAR | 19 | 2323 | 2325 | 2339 | S16 | E01 | 9704 | 11 | 20.0 | 16 | SF | | 3 | E | | 14 | | F |
| 0263 | LEAR | 20 | 0147 | 0204 | 0241 | S16 | E01 | 9704 | 11 | 20.1 | 54 | SF | | 3 | E | | 77 | | F |
| 0264 | URUM | 20 | 0214E | 0214 | 0230 | S14 | E01 | 9704 | 11 | 20.2 | 16D | SN | | | P | | 129 | 1.4 | E |
| | | 20 | 1006 | | 1033 | No Flare Patrol | | | | | | | | | | | | | |
| | | 20 | 1045 | | 1122 | No Flare Patrol | | | | | | | | | | | | | |
| 0265 | RAMY | 20 | 1125E | 1125U | 1239D | S17 | W03 | 9704 | 11 | 20.2 | 74D | SF | | 3 | E | | 63 | | F |
| | | 20 | 1137 | | 1234 | No Flare Patrol | | | | | | | | | | | | | |
| | | 20 | 1247 | | 1355 | No Flare Patrol | | | | | | | | | | | | | |
| 0266 | HOLL | 20 | 1440E | 1440U | 1510 | S20 | W04 | 9704 | 11 | 20.3 | 30D | SF | | 2 | E | | 85 | | |
| 0267 | HOLL | 20 | 2227 | 2228 | 2241 | S15 | W09 | 9704 | 11 | 20.2 | 14 | SF | | 3 | E | | 31 | | F |
| 0268 | LEAR | 21 | 0126 | 0127 | 0129 | S18 | W12 | 9704 | 11 | 20.1 | 3 | SF | | 3 | E | | 24 | | F |
| 0269 | LEAR | 21 | 0414 | 0418 | 0502 | S14 | W12 | 9704 | 11 | 20.3 | 48 | SF | | 2 | E | | 23 | | FH |
| | | 21 | 0733 | | 0742 | No Flare Patrol | | | | | | | | | | | | | |
| | | 21 | 0806 | | 0814 | No Flare Patrol | | | | | | | | | | | | | |
| 0270 | SVTO | 21 | 0833E | 0837U | 0842 | S18 | W15 | 9704 | 11 | 20.2 | 9D | SF | | 3 | E | | 14 | | F |
| 0271 | SVTO | 21 | 0949 | 0951 | 0954 | S21 | W15 | 9704 | 11 | 20.2 | 5 | SF | | 3 | E | | 21 | | |
| 0272 | SVTO | 21 | 1007 | 1007 | 1013 | S18 | W17 | 9704 | 11 | 20.1 | 6 | SF | | 3 | E | | 32 | | |
| 0273 | | 21 | 1106* | 1111U | 1130 | S20 | W18 | 9704 | 11 | 20.1 | 24 | SF | | | | | 30 | | F |
| | SVTO | 21 | 1106 | 1111U | 1130 | S20 | W17 | 9704 | 11 | 20.2 | 24 | SF | | 3 | E | | 38 | | F |
| | RAMY | 21 | 1117 | 1118U | 1139D | S20 | W19 | 9704 | 11 | 20.0 | 22D | SF | | 3 | E | | 21 | | F |
| 0274 | SVTO | 21 | 1239 | 1347 | 1510D | S15 | W18 | 9704 | 11 | 20.2 | 151D | SF | | 3 | E | | 88 | | |
| 0275 | RAMY | 21 | 1504 | 1505 | 1516 | S20 | W18 | 9704 | 11 | 20.2 | 12 | SF | | 3 | E | | 45 | | |
| 0276 | RAMY | 21 | 1308 | 1308 | 1311 | S20 | W17 | 9704 | 11 | 20.2 | 3 | SF | | 3 | E | | 38 | | |
| 0277 | RAMY | 21 | 1314 | 1316 | 1320 | S13 | W18 | 9704 | 11 | 20.2 | 6 | SF | | 3 | E | | 19 | | |
| 0278 | | 21 | 1436* | 15207 | 1606 | S14 | W20 | 9704 | 11 | 20.1 | 90 | SF | | | | | 34 | | F |
| | HOLL | 21 | 1436 | 1520 | 1602 | S13 | W20 | 9704 | 11 | 20.1 | 86 | SF | | 3 | E | | 36 | | F |
| | RAMY | 21 | 1517 | 1527 | 1611 | S15 | W20 | 9704 | 11 | 20.1 | 54 | SF | | 3 | E | | 33 | | F |
| 0279 | RAMY | 21 | 1751 | 1752 | 1755 | S20 | W21 | 9704 | 11 | 20.1 | 4 | SF | | 3 | E | | 10 | | F |
| 0280 | | 21 | 18081 | 18162 | 1836 | S20 | W20 | 9704 | 11 | 20.2 | 28 | SF | | | | | 44 | | F |
| | RAMY | 21 | 1808 | 1818 | 1838 | S20 | W21 | 9704 | 11 | 20.1 | 30 | SF | | 3 | E | | 54 | | F |
| | HOLL | 21 | 1809 | 1816 | 1833 | S21 | W19 | 9704 | 11 | 20.3 | 24 | SF | | 3 | E | | 34 | | |
| 0281 | SVTO | 22 | 0805 | 0806 | 0816 | S19 | W29 | 9704 | 11 | 20.1 | 11 | SF | | 3 | E | | 16 | | F |

NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0282 | RAMY | 22 | 1124 | 1129 | 1134 | S15 | W33 | 9704 | 11 | 20.0 | 10 | SF | | 3 | E | | 15 | | F |
| 0283 | RAMY | 22 | 1128 | 1129 | 1133 | N13 | W63 | 9697 | 11 | 17.7 | 5 | SF | | 3 | E | | 10 | | |
| 0284 | RAMY | 22 | 1154 | 1201 | 1211 | S21 | W30 | 9704 | 11 | 20.2 | 17 | SF | | 3 | E | | 18 | | F |
| 0285 | | 22 | 11581 | 1159 | 1206 | S11 | W02 | 9710 | 11 | 22.3 | 8 | SF | | | | | 20 | | F |
| | SVTO | 22 | 1158 | 1159 | 1206 | S11 | W02 | 9710 | 11 | 22.3 | 8 | SF | | 3 | E | | 19 | | F |
| | RAMY | 22 | 1159 | 1159 | 1207 | S11 | W01 | 9710 | 11 | 22.4 | 8 | SF | | 3 | E | | 21 | | F |
| 0286 | RAMY | 22 | 1453 | 1454 | 1507 | S12 | W02 | 9710 | 11 | 22.5 | 14 | SF | | 3 | E | | 36 | | F |
| 0287 | RAMY | 22 | 1655 | 1708 | 1803 | S18 | W33 | 9704 | 11 | 20.2 | 68 | 1F | | 3 | E | | 119 | | F |
| 0288 | HOLL | 22 | 1705 | 1714 | 1744 | S19 | W34 | 9704 | 11 | 20.1 | 39 | SF | | 3 | E | | 98 | | F |
| 0289 | RAMY | 22 | 1829 | 1835 | 1837 | S16 | W32 | 9704 | 11 | 20.3 | 8 | SF | | 3 | E | | 34 | | |
| 0290 | RAMY | 22 | 1845 | 1845 | 1854 | S14 | W37 | 9704 | 11 | 20.0 | 9 | SF | | 3 | E | | 13 | | F |
| 0291 | | 22 | 2022 | 20262 | 2126D | S24 | W68 | 9698 | 11 | 17.6 | 64D | 2B | | | | | 344 | | FHZ |
| | RAMY | 22 | 2022 | 2026 | 2126D | S25 | W67 | 9698 | 11 | 17.6 | 64D | 2B | | 3 | E | | 344 | | FH |
| | HOLL | 22 | 2022 | 2028 | 2116D | S23 | W68 | 9698 | 11 | 17.6 | 54D | 2N | | 3 | E | | 345 | | ZF |
| | | 22 | 2124 | | 2208 | No Flare Patrol | | | | | | | | | | | | | |
| 0292 | LEAR | 22 | 2209E | 2308 | 0401 | S15 | W34 | 9704 | 11 | 20.3 | 352D | 2N | | 3 | E | | 573 | | EF |
| 0293 | | 22 | 2341 | 23452 | 2431 | S13 | W38 | 9704 | 11 | 20.1 | 50 | 3B | | | | | 12411 | 7.0 | BHK |
| | MITK | 22 | 2341 | 2345 | 2431 | S16 | W36 | 9704 | 11 | 20.2 | 50 | 2N | | | C | 2345 | 89 | 11.9 | BHK |
| | VORO | 22 | 2345E | 2347 | 0300D | S10 | W39 | 9704 | 11 | 20.0 | 195D | 4B | | 3 | C | 2347 | 24733 | 2.1 | |
| 0294 | URUM | 23 | 0245E | 0245U | 0245D | S13 | W38 | 9704 | 11 | 20.2 | 195D | 1N | | | P | | 289 | 3.9 | E |
| 0295 | URUM | 23 | 0645E | 0645 | 0645D | S15 | W41 | 9704 | 11 | 20.2 | 195D | 1N | | | P | | 161 | 2.3 | E |
| 0296 | | 23 | 08001 | 08034 | 0822 | S16 | W44 | 9704 | 11 | 20.0 | 22 | SF | | | | | 38 | | F |
| | LEAR | 23 | 0800 | 0803 | 0820 | S16 | W45 | 9704 | 11 | 19.9 | 20 | SF | | 3 | E | | 43 | | F |
| | SVTO | 23 | 0801 | 0807 | 0823 | S15 | W43 | 9704 | 11 | 20.1 | 22 | SF | | 3 | E | | 34 | | F |
| 0297 | | 23 | 0830 | 0833 | 0841 | S20 | W38 | 9704 | 11 | 20.4 | 11 | SF | | | | | 58 | | F |
| | LEAR | 23 | 0830 | 0833 | 0841 | S20 | W38 | 9704 | 11 | 20.4 | 11 | SF | | 3 | E | | 53 | | F |
| | SVTO | 23 | 0830E | 0835U | 0845D | S19 | W37 | 9704 | 11 | 20.5 | 15D | SF | | 3 | E | | 63 | | |
| | | 23 | 1055 | | 1100 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1118 | | 1152 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1653 | | 1808 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1822 | | 1831 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 2110 | | 2145 | No Flare Patrol | | | | | | | | | | | | | |
| 0298 | LEAR | 24 | 0016 | 0017 | 0022 | S17 | W52 | 9704 | 11 | 20.0 | 6 | SF | | 3 | E | | 13 | | |
| 0299 | LEAR | 24 | 0150 | 0150 | 0153 | S17 | W53 | 9704 | 11 | 20.0 | 3 | SF | | 3 | E | | 17 | | |
| 0300 | | 24 | 04495 | 0456 | 0506 | S18 | W54 | 9704 | 11 | 20.1 | 17 | 1B | | | | | 198 | 4.4 | FH |
| | LEAR | 24 | 0449 | 0456 | 0509 | S17 | W55 | 9704 | 11 | 20.0 | 20 | 1N | | 3 | E | | 157 | | F |
| | MITK | 24 | 0454 | 0456 | 0503 | S18 | W53 | 9704 | 11 | 20.2 | 9 | 1B | | | C | 0456 | 239 | 4.4 | H |
| 0301 | LEAR | 24 | 0550 | 0551 | 0602 | S19 | W50 | 9704 | 11 | 20.4 | 12 | SF | | 3 | E | | 55 | | F |
| 0302 | LEAR | 24 | 0726 | 0728 | 0747 | S18 | W56 | 9704 | 11 | 20.0 | 21 | 1N | | 3 | E | | 219 | | F |
| 0303 | URUM | 24 | 0730E | 0730 | 0730D | N22 | W54 | | 11 | 20.2 | 21D | 1N | | | P | | 161 | 2.8 | E |
| | | 24 | 1016 | | 1051 | No Flare Patrol | | | | | | | | | | | | | |
| 0304 | RAMY | 24 | 1252 | 1257 | 1331 | S18 | W59 | 9704 | 11 | 20.0 | 39 | SF | | 3 | E | | 92 | | |
| 0305 | RAMY | 24 | 1345 | 1421 | 1436 | S18 | W59 | 9704 | 11 | 20.1 | 51 | SF | | 3 | E | | 35 | | |

# Hα SOLAR FLARES

## NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 24 | 1358 | | 1416 | No Flare Patrol | | | | | | | | | | | | | |
| 0306 | | 24 | 14494 | 1458 | 1524 | S17 | W58 | 9704 | 11 | 20.2 | 35 | 1F | | | | | 102 | | F |
| | RAMY | 24 | 1449 | 1458 | 1530 | S17 | W60 | 9704 | 11 | 20.0 | 41 | 1F | | 3 | E | | 111 | | |
| | HOLL | 24 | 1453 | 1458 | 1518 | S17 | W57 | 9704 | 11 | 20.3 | 25 | SF | | 3 | E | | 94 | | F |
| 0307 | RAMY | 24 | 1539 | 1540 | 1543 | S18 | W60 | 9704 | 11 | 20.1 | 4 | SF | | 3 | E | | 17 | | |
| 0308 | | 24 | 16022 | 1623 | 1640 | S18 | W60 | 9704 | 11 | 20.1 | 38 | SF | | | | | 30 | | F |
| | RAMY | 24 | 1602 | 1623 | 1642 | S19 | W60 | 9704 | 11 | 20.1 | 40 | SF | | 3 | E | | 33 | | F |
| | HOLL | 24 | 1604 | 1623 | 1637 | S17 | W60 | 9704 | 11 | 20.1 | 33 | SF | | 3 | E | | 27 | | |
| 0309 | RAMY | 24 | 1644 | 1644 | 1817 | S17 | W66 | 9704 | 11 | 19.7 | 93 | SF | | 3 | E | | 10 | | F |
| 0310 | HOLL | 24 | 1650 | 1652 | 1701 | S18 | W59 | 9704 | 11 | 20.2 | 11 | SF | | 3 | E | | 17 | | |
| 0311 | HOLL | 24 | 1709 | 1714 | 1726 | S17 | W60 | 9704 | 11 | 20.1 | 17 | SF | | 3 | E | | 46 | | F |
| 0312 | HOLL | 24 | 1742 | 1750 | 1814 | S18 | W60 | 9704 | 11 | 20.2 | 32 | SF | | 3 | E | | 60 | | |
| 0313 | HOLL | 24 | 1815 | 1815 | 1824 | S16 | W65 | 9704 | 11 | 19.8 | 9 | SF | | 3 | E | | 17 | | |
| 0314 | RAMY | 24 | 1817 | 1832 | 1843 | S17 | W63 | 9704 | 11 | 20.0 | 26 | SF | | 3 | E | | 12 | | F |
| 0315 | HOLL | 24 | 1839 | 1840 | 1843 | N07 | E71 | 9715 | 11 | 30.1 | 4 | SF | | 3 | E | | 17 | | F |
| 0316 | | 24 | 19171 | 19201 | 1933 | S18 | W61 | 9704 | 11 | 20.1 | 16 | SF | | | | | 14 | | F |
| | HOLL | 24 | 1917 | 1921 | 1932 | S18 | W61 | 9704 | 11 | 20.1 | 15 | SF | | 3 | E | | 16 | | |
| | RAMY | 24 | 1918 | 1920 | 1934 | S18 | W61 | 9704 | 11 | 20.1 | 16 | SF | | 3 | E | | 13 | | F |
| 0317 | | 24 | 20031 | 2004 | 2008 | S10 | W32 | 9710 | 11 | 22.4 | 5 | SF | | | | | 16 | | |
| | RAMY | 24 | 2003 | 2004 | 2008 | S10 | W32 | 9710 | 11 | 22.4 | 5 | SF | | 3 | E | | 19 | | |
| | HOLL | 24 | 2004 | 2004 | 2007 | S09 | W32 | 9710 | 11 | 22.4 | 3 | SF | | 3 | E | | 14 | | |
| 0318 | RAMY | 24 | 2048 | 2050 | 2100 | S20 | W61 | 9704 | 11 | 20.2 | 12 | SF | | 3 | E | | 17 | | |
| 0319 | | 24 | 2107 | 2107 | 2111 | S17 | W64 | 9704 | 11 | 20.0 | 4 | SF | | | | | 22 | | |
| | HOLL | 24 | 2107 | 2107 | 2111 | S17 | W64 | 9704 | 11 | 20.0 | 4 | SF | | 3 | E | | 23 | | |
| | RAMY | 24 | 2107 | 2107 | 2111 | S17 | W63 | 9704 | 11 | 20.1 | 4 | SF | | 3 | E | | 22 | | |
| 0320 | HOLL | 24 | 2115 | 2117 | 2123 | S18 | W58 | 9704 | 11 | 20.5 | 8 | SF | | 3 | E | | 63 | | |
| 0321 | HOLL | 24 | 2125 | 2129 | 2132 | S19 | W57 | 9704 | 11 | 20.5 | 7 | SF | | 3 | E | | 27 | | |
| 0322 | HOLL | 24 | 2144 | 2145 | 2151 | N03 | E70 | 9715 | 11 | 30.1 | 7 | SF | | 3 | E | | 22 | | |
| 0323 | LEAR | 25 | 0103 | 0114 | 0124 | S19 | W60 | 9704 | 11 | 20.5 | 21 | SF | | 3 | E | | 70 | | FH |
| 0324 | | 25 | 0342 | 03403 | 0347 | S16 | W71 | 9704 | 11 | 19.8 | 5 | 1N | | | | | 92 | | EH |
| | URUM | 25 | 0340E | 0340 | 0340D | S16 | W72 | 9704 | 11 | 19.7 | 5D | 1N | | | P | | 161 | | E |
| | LEAR | 25 | 0342 | 0343 | 0347 | S17 | W70 | 9704 | 11 | 19.8 | 5 | SF | | 3 | E | | 22 | | H |
| 0325 | LEAR | 25 | 0401 | 0403 | 0409 | S18 | W69 | 9704 | 11 | 19.9 | 8 | SF | | 2 | E | | 48 | | |
| 0326 | LEAR | 25 | 0624 | 0630 | 0636 | S12 | E03 | 9714 | 11 | 25.5 | 12 | SF | | 1 | E | | 11 | | |
| 0327 | LEAR | 25 | 0842 | 0843 | 0846 | S18 | W71 | 9704 | 11 | 19.9 | 4 | SF | | 1 | E | | 18 | | |
| 0328 | URUM | 25 | 0927E | 0927 | 0927D | S19 | W65 | 9704 | 11 | 20.4 | 4D | 1N | | | P | | 161 | | C |
| | | 25 | 0942 | | 1032 | No Flare Patrol | | | | | | | | | | | | | |
| | | 25 | 1037 | | 1309 | No Flare Patrol | | | | | | | | | | | | | |
| 0329 | RAMY | 25 | 1446 | 1446 | 1507 | N06 | E65 | 9715 | 11 | 30.5 | 21 | SF | | 3 | E | | 13 | | H |
| 0330 | HOLL | 25 | 1451 | 1510 | 1513 | N06 | E64 | 9715 | 11 | 30.4 | 22 | SF | | 3 | E | | 19 | | F |
| 0331 | RAMY | 25 | 1525 | 1526 | 1548 | N04 | E64 | 9715 | 11 | 30.4 | 23 | SF | | 3 | E | | 11 | | |

NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0332 | RAMY | 25 | 1531 | 1531 | 1536 | S18 | W75 | 9704 | 11 | 19.9 | 5 | SF | | 3 | E | | 11 | | |
| 0333 | RAMY | 25 | 1546 | 1548 | 1556 | S18 | W74 | 9704 | 11 | 20.0 | 10 | SF | | 3 | E | | 58 | | FH |
| 0334 | RAMY | 25 | 1651 | 1701 | 1704 | S18 | W72 | 9704 | 11 | 20.2 | 13 | SF | | 3 | E | | 52 | | FH |
| 0335 | RAMY | 25 | 1711 | 1712 | 1717 | S17 | W73 | 9704 | 11 | 20.2 | 6 | SF | | 3 | E | | 19 | | |
| 0336 | RAMY | 25 | 1745 | 1810 | 1836 | S18 | W77 | 9704 | 11 | 19.9 | 51 | SF | | 3 | E | | 23 | | FH |
| | | 25 | 1812 | | 1850 | No Flare Patrol | | | | | | | | | | | | | |
| 0337 | RAMY | 25 | 1835 | 1835 | 1843 | N03 | E62 | 9715 | 11 | 30.4 | 8 | SF | | 3 | E | | 27 | | F |
| 0338 | RAMY | 25 | 1856 | 1900 | 1904 | S17 | W70 | 9704 | 11 | 20.5 | 8 | SF | | 3 | E | | 58 | | |
| | | 25 | 2024 | | 2046 | No Flare Patrol | | | | | | | | | | | | | |
| | | 25 | 2111 | | 2220 | No Flare Patrol | | | | | | | | | | | | | |
| 0339 | LEAR | 26 | 0105 | 0106 | 0109 | N03 | E53 | 9715 | 11 | 30.0 | 4 | SF | | 3 | E | | 20 | | |
| 0340 | LEAR | 26 | 0817 | 0820 | 0822 | S04 | E68 | 9716 | 12 | 1.4 | 5 | SF | | 3 | E | | 20 | | |
| 0341 | SVTO | 26 | 1225 | 1225 | 1228 | N08 | E49 | 9715 | 11 | 30.2 | 3 | SF | | 3 | E | | 11 | | |
| | | 26 | 1231 | | 1328 | No Flare Patrol | | | | | | | | | | | | | |
| 0342 | SVTO | 26 | 1352 | 1353 | 1358 | N06 | E43 | 9715 | 11 | 29.8 | 6 | SF | | 3 | E | | 22 | | |
| | | 26 | 1501 | | 1610 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 1616 | | 1628 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 1659 | | 1710 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 1758 | | 1929 | No Flare Patrol | | | | | | | | | | | | | |
| 0343 | HOLL | 26 | 2126 | 2130 | 2134 | S20 | W90 | 9704 | 11 | 20.0 | 8 | SF | | 3 | E | | 93 | | |
| | | 27 | 0131 | | 0647 | No Flare Patrol | | | | | | | | | | | | | |
| 0344 | SVTO | 27 | 1026 | 1027 | 1032 | S05 | E84 | 9718 | 12 | 3.7 | 6 | SF | | 3 | E | | 30 | | |
| 0345 | SVTO | 27 | 1034 | 1035 | 1042 | S06 | E84 | 9718 | 12 | 3.7 | 8 | SF | | 3 | E | | 22 | | |
| 0346 | SVTO | 27 | 1050E | 1051U | 1100D | S06 | E85 | 9718 | 12 | 3.8 | 10D | SF | | 2 | E | | 31 | | |
| 0347 | SVTO | 27 | 1340 | 1340U | 1352D | S06 | E89 | 9718 | 12 | 4.2 | 12D | SF | | 3 | E | | 35 | | |
| | | 27 | 1441 | | 1509 | No Flare Patrol | | | | | | | | | | | | | |
| 0348 | RAMY | 27 | 1549 | 1549 | 1619 | N05 | E35 | 9715 | 11 | 30.3 | 30 | SF | | 3 | E | | 63 | | F |
| 0349 | HOLL | 27 | 1837 | 1838 | 1855D | S07 | E82 | 9718 | 12 | 3.9 | 18D | SF | | 3 | E | | 20 | | |
| | | 27 | 1848 | | 1944 | No Flare Patrol | | | | | | | | | | | | | |
| 0350 | HOLL | 27 | 2006 | 2006 | 2023 | S07 | E83 | 9718 | 12 | 4.0 | 17 | SF | | 3 | E | | 12 | | |
| 0351 | HOLL | 27 | 2024 | 2024 | 2027 | S08 | E82 | 9718 | 12 | 4.0 | 3 | SF | | 3 | E | | 19 | | |
| 0352 | RAMY | 27 | 2039 | 2046 | 2050 | S05 | E73 | 9718 | 12 | 3.3 | 11 | SF | | 3 | E | | 24 | | |
| 0353 | HOLL | 27 | 2044 | 2120 | 2232 | S07 | E81 | 9718 | 12 | 3.9 | 108 | 1F | | 3 | E | | 219 | | |
| 0354 | HOLL | 27 | 2116 | 2120 | 2138 | N03 | E26 | 9715 | 11 | 29.8 | 22 | 1F | | 3 | E | | 171 | | |
| 0355 | HOLL | 27 | 2244 | 2245 | 2250 | N04 | E32 | 9715 | 11 | 30.3 | 6 | SF | | 3 | E | | 12 | | |
| | | 27 | 2307 | | 2400 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 0000 | | 0006 | No Flare Patrol | | | | | | | | | | | | | |

# Hα SOLAR FLARES

## NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | CMP Day | Dur (Min) | Imp Opt | Imp Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0356 | LEAR | 28 | 0113 | 0114 | 0119 | S07 | E81 | 9718 | 12 | 4.1 | 6 | SF | | 3 | E | | 18 | | |
| 0357 | LEAR | 28 | 0124 | 0126 | 0132 | N04 | E23 | 9715 | 11 | 29.8 | 8 | SF | | 3 | E | | 35 | | F |
| 0358 | LEAR | 28 | 0200 | 0200 | 0203 | S06 | E83 | 9718 | 12 | 4.3 | 3 | SF | | 3 | E | | 19 | | |
| 0359 | LEAR | 28 | 0216 | 0218 | 0220 | S07 | E81 | 9718 | 12 | 4.2 | 4 | SF | | 3 | E | | 42 | | F |
| 0360 | LEAR | 28 | 0310 | 0311 | 0316 | S06 | E78 | 9718 | 12 | 4.0 | 6 | SF | | 2 | E | | 31 | | |
| 0361 | LEAR | 28 | 0410 | 0429 | 0437 | S06 | E77 | 9718 | 12 | 3.9 | 27 | SF | | 3 | E | | 26 | | F |
| | | 28 | 0440 | | 0815 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1018 | | 1049 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1052 | | 1106 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1146 | | 1347 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1359 | | 1400 | No Flare Patrol | | | | | | | | | | | | | |
| 0362 | RAMY | 28 | 1632 | 1636 | 1652 | N04 | E16 | 9715 | 11 | 29.9 | 20 | 1B | | 3 | E | | 183 | | FH |
| 0363 | HOLL | 28 | 1638 | 1647 | 1711 | N04 | E16 | 9715 | 11 | 29.9 | 33 | 1N | | 3 | E | | 159 | | HZ |
| 0364 | HOLL | 28 | 1729 | 1729 | 1735 | S06 | E70 | 9718 | 12 | 4.0 | 6 | SF | | 3 | E | | 15 | | |
| 0365 | HOLL | 28 | 1802 | 1803 | 1807 | S20 | E71 | 9720 | 12 | 4.2 | 5 | SF | | 3 | E | | 33 | | |
| 0366 | HOLL | 28 | 1858 | 1902 | 1920 | S07 | E72 | 9718 | 12 | 4.2 | 22 | SF | | 3 | E | | 35 | | F |
| 0367 | HOLL | 28 | 1912 | 1912 | 1920 | N05 | E14 | 9715 | 11 | 29.8 | 8 | SF | | 3 | E | | 14 | | H |
| 0368 | | 28 | 19451 | 1946 | 1950 | N04 | E15 | 9715 | 11 | 29.9 | 5 | SF | | | | | 18 | | H |
| | HOLL | 28 | 1945 | 1946 | 1951 | N04 | E15 | 9715 | 11 | 29.9 | 6 | SF | | 3 | E | | 19 | | H |
| | RAMY | 28 | 1946 | 1946 | 1950 | N04 | E15 | 9715 | 11 | 29.9 | 4 | SF | | 3 | E | | 16 | | |
| 0369 | HOLL | 28 | 2004 | 2007 | 2010 | S07 | E70 | 9718 | 12 | 4.1 | 6 | SF | | 3 | E | | 19 | | |
| 0370 | | 28 | 20149 | 2023 | 2034 | S07 | E70 | 9718 | 12 | 4.1 | 20 | SF | | | | | 44 | | |
| | HOLL | 28 | 2014 | 2023 | 2030 | S07 | E70 | 9718 | 12 | 4.1 | 16 | SF | | 3 | E | | 71 | | |
| | RAMY | 28 | 2023 | 2023 | 2038 | S07 | E70 | 9718 | 12 | 4.1 | 15 | SF | | 3 | E | | 18 | | |
| 0371 | HOLL | 28 | 2106 | 2109 | 2117 | S06 | E70 | 9718 | 12 | 4.1 | 11 | SF | | 3 | E | | 19 | | |
| 0372 | HOLL | 28 | 2146 | 2151 | 2154 | N04 | E17 | 9715 | 11 | 30.2 | 8 | SF | | 3 | E | | 13 | | |
| 0373 | HOLL | 28 | 2229 | 2230 | 2245 | N07 | E17 | 9715 | 11 | 30.2 | 16 | 1F | | 3 | E | | 108 | | F |
| 0374 | HOLL | 28 | 2311 | 2319 | 2319D | N05 | E18 | 9715 | 11 | 30.3 | 8D | 1F | | 3 | E | | 123 | | |
| | | 28 | 2344 | | 2354 | No Flare Patrol | | | | | | | | | | | | | |
| 0375 | VORO | 29 | 0016 | 0028 | 0044 | N03 | E17 | 9715 | 11 | 30.3 | 28 | SF | | 3 | C | 0028 | 108 | 1.2 | |
| 0376 | VORO | 29 | 0116 | 0124 | 0129 | N04 | E17 | 9715 | 11 | 30.3 | 13 | 1F | | 3 | C | 0124 | 269 | 2.9 | |
| 0377 | VORO | 29 | 0116 | 0118 | 0126 | S12 | E63 | 9718 | 12 | 3.8 | 10 | 1F | | 3 | C | 0118 | 125 | 3.0 | |
| 0378 | LEAR | 29 | 0145 | 0148 | 0158 | N04 | E12 | 9715 | 11 | 30.0 | 13 | SF | | 2 | E | | 32 | | EF |
| 0379 | LEAR | 29 | 0149 | 0149 | 0153 | S20 | E67 | 9720 | 12 | 4.2 | 4 | SF | | 2 | E | | 15 | | FH |
| | | 29 | 0250 | | 0258 | No Flare Patrol | | | | | | | | | | | | | |
| 0380 | LEAR | 29 | 0307 | 0308 | 0312 | N10 | W26 | 9712 | 11 | 27.2 | 5 | SF | | 1 | E | | 15 | | F |
| 0381 | LEAR | 29 | 0320 | 0320 | 0327 | N10 | W28 | 9712 | 11 | 27.0 | 7 | SF | | 1 | E | | 15 | | F |
| 0382 | LEAR | 29 | 0319 | 0322 | 0324 | S18 | E76 | 9720 | 12 | 4.9 | 5 | SF | | 1 | E | | 45 | | |
| 0383 | LEAR | 29 | 0517 | 0522 | 0531 | N05 | E09 | 9715 | 11 | 29.9 | 14 | SF | | 2 | E | | 48 | | F |

NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | CMP Day | Dur (Min) | Imp Opt | Imp Xray | Imp See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0384 | LEAR | 29 | 0800 | 0800 | 0803 | S18 | E72 | 9720 | 12 | 4.8 | 3 | SF | | 1 | E | | 15 | | |
| | | 29 | 1000 | | 1011 | No Flare Patrol | | | | | | | | | | | | | |
| 0385 | SVTO | 29 | 1015 | 1024U | 1058D | N04 | E10 | 9715 | 11 | 30.2 | 43D | 1N | | 3 | E | | 131 | | FH |
| | | 29 | 1039 | | 1054 | No Flare Patrol | | | | | | | | | | | | | |
| | | 29 | 1109 | | 1411 | No Flare Patrol | | | | | | | | | | | | | |
| 0386 | SVTO | 29 | 1403E | 1404U | 1412D | N05 | E03 | 9715 | 11 | 29.8 | 9D | SF | | 2 | E | | 55 | | |
| 0387 | HOLL | 29 | 1518 | 1520 | 1522 | N04 | E05 | 9715 | 11 | 30.0 | 4 | SF | | 3 | E | | 18 | | F |
| | | 29 | 1559 | | 1604 | No Flare Patrol | | | | | | | | | | | | | |
| 0388 | HOLL | 29 | 1613 | 1620 | 1621 | N04 | E06 | 9715 | 11 | 30.1 | 8 | SF | | 3 | E | | 10 | | |
| 0389 | HOLL | 29 | 1626 | 1626 | 1635 | N04 | E06 | 9715 | 11 | 30.1 | 9 | SF | | 3 | E | | 14 | | |
| 0390 | | 29 | 17042 | 17043 | 1712 | N04 | E04 | 9715 | 11 | 30.0 | 8 | SF | | | | | 24 | | |
| | HOLL | 29 | 1704 | 1704 | 1713 | N05 | E05 | 9715 | 11 | 30.1 | 9 | SF | | 3 | E | | 35 | | |
| | RAMY | 29 | 1706 | 1707 | 1710 | N04 | E04 | 9715 | 11 | 30.0 | 4 | SF | | 3 | E | | 14 | | |
| | | 29 | 1734 | | 1736 | No Flare Patrol | | | | | | | | | | | | | |
| 0391 | | 29 | 18025 | 18081 | 1834 | N06 | E08 | 9715 | 11 | 30.3 | 32 | 1F | | | | | 120 | | FH |
| | HOLL | 29 | 1802 | 1808 | 1829 | N06 | E08 | 9715 | 11 | 30.3 | 27 | 1F | | 3 | E | | 166 | | FH |
| | RAMY | 29 | 1807 | 1809 | 1840 | N05 | E07 | 9715 | 11 | 30.3 | 33 | SF | | 3 | E | | 75 | | FH |
| 0392 | HOLL | 29 | 1833 | 1838 | 1840 | N04 | E08 | 9715 | 11 | 30.4 | 7 | SF | | 3 | E | | 11 | | |
| | | 29 | 1855 | | 1907 | No Flare Patrol | | | | | | | | | | | | | |
| 0393 | RAMY | 29 | 1949 | 1949 | 2001 | S06 | E58 | 9718 | 12 | 4.2 | 12 | SF | | 3 | E | | 15 | | |
| | | 29 | 2025 | | 2030 | No Flare Patrol | | | | | | | | | | | | | |
| 0394 | RAMY | 29 | 2047 | 2047 | 2054 | N06 | E02 | 9715 | 11 | 30.0 | 7 | SF | | 3 | E | | 15 | | F |
| | | 29 | 2114 | | 2115 | No Flare Patrol | | | | | | | | | | | | | |
| | | 29 | 2127 | | 2135 | No Flare Patrol | | | | | | | | | | | | | |
| 0395 | | 30 | 01011 | 0105 | 0120 | S07 | E58 | 9718 | 12 | 4.4 | 19 | 1N | | | | | 169 | 2.6 | F |
| | VORO | 30 | 0101 | 0105 | 0120 | S08 | E58 | 9718 | 12 | 4.4 | 19 | 1N | | 3 | C | 0105 | 143 | 2.6 | |
| | LEAR | 30 | 0102 | 0105 | 0120 | S06 | E57 | 9718 | 12 | 4.3 | 18 | 1N | | 2 | E | | 195 | | F |
| 0396 | LEAR | 30 | 0133 | 0133 | 0147 | S07 | E54 | 9718 | 12 | 4.1 | 14 | SF | | 2 | E | | 31 | | F |
| 0397 | LEAR | 30 | 0407 | 0408 | 0433 | S04 | E51 | 9718 | 12 | 4.0 | 26 | SF | | 2 | E | | 17 | | F |
| 0398 | LEAR | 30 | 0434 | 0434 | 0437 | S07 | E52 | 9718 | 12 | 4.1 | 3 | SF | | 2 | E | | 52 | | F |
| 0399 | LEAR | 30 | 0542 | 0545 | 0551 | N11 | W44 | 9712 | 11 | 26.9 | 9 | SF | | 2 | E | | 24 | | F |
| 0400 | LEAR | 30 | 0916 | 0924 | 0936 | S05 | E52 | 9718 | 12 | 4.3 | 20 | SF | | 1 | E | | 39 | | F |
| 0401 | SVTO | 30 | 1046 | 1047 | 1053 | N05 | W03 | 9715 | 11 | 30.2 | 7 | SF | | 3 | E | | 13 | | |
| 0402 | SVTO | 30 | 1135 | 1136 | 1140 | N05 | W03 | 9715 | 11 | 30.2 | 5 | SF | | 3 | E | | 18 | | |
| | | 30 | 1212 | | 1258 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1305 | | 1502 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1508 | | 1653 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1721 | | 1807 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1823 | | 1840 | No Flare Patrol | | | | | | | | | | | | | |
| 0403 | HOLL | 30 | 1845 | 1847 | 1850 | N03 | W04 | 9715 | 11 | 30.5 | 5 | SF | | 3 | E | | 23 | | FH |
| 0404 | HOLL | 30 | 1906 | 1908 | 1910 | N01 | W08 | 9715 | 11 | 30.2 | 4 | SF | | 3 | E | | 61 | | |

# Hα SOLAR FLARES

## NOVEMBER 2001

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | See | Obs Type | Time (UT) | Area Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0405 | HOLL | 30 | 1921 | 1924 | 1927 | N02 | W06 | 9715 | 11 | 30.3 | 6 | SF | | 3 | E | | 10 | | |
| | | 30 | 1938 | | 2221 | No Flare Patrol | | | | | | | | | | | | | |

"Remarks"

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.
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.

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