MARCH 2006 NUMBER 739 - Part II

# Solar-Geophysical Data comprehensive reports

Data for September 2005 and Miscellaneous
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

## NEW DATA:

## ACE Solar Wind, Interplanetary Magnetic Field and Particles -- Monthly Plots

**NGDC On-Line Addresses:**
**World-Wide Web** **http://www.ngdc.noaa.gov**
**Anonymous FTP:** **ftp.ngdc.noaa.gov**

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE / NATIONAL GEOPHYSICAL DATA CENTER / BOULDER, COLORADO

**U.S. DEPARTMENT OF COMMERCE**
Carlos M. Gutierrez, Secretary

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**
Vice Admiral Conrad C. Lautenbacher, Jr., Under Secretary/Administrator

**NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE**
Gregory W. Withee, Assistant Administrator

MARCH 2006 NUMBER 739 - Part II

# Solar-Geophysical Data comprehensive reports

Data for September 2005 and Late Data

International Standard Serial Number: 0038-0911
Library of Congress Catalog Number: 79-640375 //r81

**NATIONAL GEOPHYSICAL DATA CENTER**
Christopher G. Fox, Director
Boulder, Colorado

Subscription information is on the inside back cover.

# SOLAR-GEOPHYSICAL DATA

Number 739
(Issued in Two Parts)

Editor: Helen E. Coffey

Division Chief: William F. Denig
Solar-Terrestrial Physics Division

Staff: Edward H. Erwin

## CONTENTS

**PART I (PROMPT REPORTS)** Page



**PART II (COMPREHENSIVE REPORTS)** Page

**DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA**

| CODE | KIND OF OBSERVATION | JUL 05 | AUG | SEP | OCT | NOV | DEC | JAN 06 | FEB |
|---|---|---|---|---|---|---|---|---|---|
| A. | SOLAR AND INTERPLANETARY | | | | | | | | |
| A.1 | Sunspot Drawings | 733A 44 | 734A 41 | 735A 37 | 736A 42 | 737A 44 | 738A 48 | 739A 36 | |
| A.2aa | International Sunspot Numbers | 732A 25 | 733A 25 | 734A 23 | 735A 24 | 736A 23 | 737A 25 | 738A 24 | 739A 22 |
| A.2c | American Sunspot Numbers | 732A 25 | 733A 25 | 734A 23 | 735A 24 | 736A 23 | 737A 25 | 738A 24 | 739A 22 |
| A.3a | Mt. Wilson Magnetograms | 733A 44 | 734A 41 | 735A 37 | 736A 42 | 737A 44 | 738A 48 | 739A 36 | |
| A.3b | Sunspot Mag Class and Regions | 733A 81 | 734A 78 | 735A 72 | 736A 79 | 737A 79 | 738A 85 | 739A 73 | |
| A.3c | Kitt Peak Magnetograms | 733A 44 | 734A 41 | 735A 37 | 736A 42 | 737A 44 | 738A 48 | 739A 36 | |
| A.3d | Mean Solar Magnetic Field (Stanford) | 732A 37 | 733A 35 | 734A 33 | 735A 31 | 736A 31 | 737A 33 | 738A 31 | 739A 27 |
| A.3e | Stanford Magnetograms | 733A 44 | 734A 41 | 735A 37 | 736A 42 | 737A 44 | 738A 48 | 739A 36 | |
| A.4 | H-alpha Filtergrams | 733A 44 | 734A 41 | 735A 37 | 736A 42 | 737A 44 | 738A 48 | 739A 36 | |
| A.5d | PhotometricCa IIFaculaeSanFernando | Jan 92-Dec 96-631B 22; 1997-1998 663B 66 | | | | | | | |
| A.6c | Stanford Solar Mag Field SynopticMap | 733A 38 | 734A 38 | 735A 34 | 736A 36 | 737A 38 | 738A 36 | 739A 30 | |
| A.6d | Kitt Peak Mag Field Synoptic Map | 733A 43 | 734A 40 | 735A 36 | 736A 41 | 737A 43 | 738A 46 | 739A 35 | |
| A.6f | Active Prominences and Filaments | 737B 36 | 738B 28 | 739B 32 | | | | | |
| A.6g | Sac Peak Coronal Line Synoptic Maps | 733A 40 | --------- | --------- | 736A 38 | 737A 40 | 738A 40 | 739A 32 | |
| A.6h | Photometric White Light SanFernando | Jul-Dec 96 630B 32; 1997-1998 in 663B 51 | | | | | | | |
| A.7h | Coronal Line Emission (Sac Peak) | 733A 44 | 734A 41 | 735A 37 | 736A 42 | 737A 44 | 738A 48 | 739A 36 | |
| A.7j | Coronal Hole Daily Maps (NSO/KP) | | | | | | | | |
| A.7k | Coronal Index (Slovak Academy) | 1939-1996 -644B 28 | | | | | | | |
| A.7m | Coronal Mass Ejections (CSPSW) | 737B 41 | 738B 33 | 739B 37 | | | | | |
| A.8aa | 2800 MHz- Solar Flux (Penticton) | 732A 25 | 733A 25 | 734A 23 | 735A 24 | 736A 23 | 737A 25 | 738A 24 | 739A 22 |
| A.8ac | 2800 MHz- Adj. Solar Flux (Penticton) | 732A 25 | 733A 25 | 734A 23 | 735A 24 | 736A 23 | 737A 25 | 738A 24 | 739A 22 |
| A.8g | Adjusted Daily Solar Fluxes Sagamore | 732A 25 | 733A 25 | 734A 23 | 735A 24 | 736A 23 | 737A 25 | 738A 24 | 739A 22 |
| A.10g | Nancay Radioheliograph164&327MHz | 733A104 | 734A 96 | 735A 86 | 736A 87 | 737A 89 | 738A 99 | 739A 82 | |
| A.10h | Nobeyama Radioheliograph - 17 GHz | 733A 75 | 734A 72 | 735A 67 | 736A 73 | 737A 74 | 738A 79 | 739A 67 | |
| A.11g | Solar X-ray GOES (graphs) | 737B 29 | 738B 21 | 739B 26 | | | | | |
| A.11g | Solar X-ray GOES (event table) | 732A 30 | 733A 29 | 734A 28 | 735A 27 | 736A 26 | 737A 29 | 738A 28 | 739A 25 |
| A.11k | Solar UV NOAA-9 | May 86-Dec 88 in 566B 84 | | | | | | | |
| A.11l | Solar UV NIMBUS7 | Nov 78-Oct 84 in 542B 82 | | | | | | | |
| A.11m | Solar UV SOLSTICE (UARS) | Oct 91-Sep 94 in 607B 46 | | | | | | | |
| A.11o | Solar UV SUSIM (UARS) | Oct 91-Jan 97 in 629B 30 | | | | | | | |
| A.11p | Solar UV Mg II Daily Index | 737B 37 | 738B 29 | 739B 33 | | | | | |
| A.12g | Solar Particles (GOES) | 732A 4 | 733A 4 | 734A 4 | 735A 4 | 736A 4 | 737A 4 | 738A 4 | 739A 4 |
| A.12i | Solar Energetic Particles (ACE) | 737B 40 | 738B 32 | 739B 36 | | | | | |
| A.13g | Solar Plasma (ACE) | 737A 39 | 738B 31 | 739B 35 | | | | | |
| A.16c | ERBS, NOAA-9 & -10 Solar Irradiance | ERBS Oct 84-Jun 00 in 671B 36 | | | | | | | |
| A.16d | UARS Solar Irradiance | Oct 91-May 2001 684B 26 – Complete Mission | | | | | | | |
| A.16e | VIRGO/SOHO Solar Irradiance | Jan 96-Sep 00 in 678B 46 | | | | | | | |
| A.17c | Inferred Interplanetary Mag Field | 1984-1988 data in 542A168; 1989-Jan 94 in 611A118 | | | | | | | |
| A.17d | ACE Interplanetary Mag Field | 737B 38 | 738B 30 | 739B 34 | | | | | |
| C. | SOLAR FLARE-ASSOCIATED EVENT | | | | | | | | |
| C.1a | H-alpha Flares | 732A 28 | 733A 28 | 734A 26 | 735A 27 | 736A 26 | 737A 28 | 738A 27 | ------ |
| C.1ba | H-alpha Flare Groups | 737B 4 | 738B 4 | 739B 4 | | | | | |
| C.1d | Flare Patrol Observations | 737B 10 | 738B 8 | 739B 10 | | | | | |
| C.1h | H-alpha Flare Index (ImpxDur) | Jan 76-Dec 85 in 639B 26; Jan 86-Oct 96 in 635B 24; Jan 96-Dec 98 in 665B 63 | | | | | | | |
| C.3 | Radio Bursts Fixed Frequency | 737B 12 | 738B 10 | 739B 12 | | | | | |
| C.3 | Radio Bursts Fixed Frequency Select | 732A 34 | 733A 32 | 734A 31 | 735A 29 | 736A 30 | 737A 32 | 738A 30 | ------ |
| C.4 | Radio Bursts Spectral | 733A 91 | 734A 88 | 735A 80 | 736A 82 | 737A 83 | 738A 94 | 739A 77 | |
| C.6 | Sudden Ionospheric Disturbances | 733A 89 | 734A 86 | 735A 77 | 736A 81 | 737A 82 | 738A 93 | 739A 76 | |
| D. | GEOMAGNETIC EVENTS | | | | | | | | |
| D.1a | Geomagnetic Indices | 733A113 | 734A104 | 735A 92 | 736A 92 | 737A 97 | 738A107 | 739A 89 | |
| D.1ba | 27-day Chart of Kp Indices | 733A115 | 734A106 | 735A 94 | 736A 94 | 737A 99 | 738A109 | 739A 91 | |
| D.1cb | Monthly Mean aa Indices | 733A116 | 734A107 | 735A 95 | 736A 95 | 737A100 | 738A110 | 739A 93 | |
| D.1d | Principal Magnetic Storms | 733A120 | 734A111 | 735A 99 | 736A 99 | 737A104 | 738A114 | 739A 99 | |
| D.1f | Sudden Commencements/FlareEffect | 733A121 | 734A112 | 735A100 | 736A100 | 737A105 | 738A115 | 739A100 | |
| D.1g | Equatorial Indices Dst | 733A118 | 734A109 | 735A 97 | 736A 97 | 737A 102 | 738A112 | 739A 97 | |
| D.1l | Polar Cap (PC) Index | 733A119 | 734A110 | 735A 98 | 736A 98 | 737A103 | 738A113 | 739A 98 | |
| F. | COSMIC RAYS | | | | | | | | |
| F.1b | Cosmic Ray Neutron Cts (Climax) | 733A107 | 734A 98 | 735A 88 | 736A 88 | 737A 91 | 738A101 | 739A 83 | |
| F.1h | Cosmic Ray Neutron Cts (Thule) | 733A107 | 734A 98 | 735A 88 | 736A 88 | 737A 91 | 738A101 | 739A 83 | |
| F.1l | Cosmic Ray Neutron Cts (Kiel) | 733A107 | 734A 98 | 735A 88 | 736A 88 | 737A 91 | 738A101 | 739A 83 | |
| F.1n | Cosmic Ray Neutron Cts (Beijing) | 733A107 | 734A 98 | 735A 88 | 736A 88 | 737A 91 | 738A101 | 739A 83 | |
| F.1m | Cosmic Ray Neutron Cts (Haleakala) | 733A107 | 734A 98 | 735A 88 | 736A 88 | 737A 91 | 738A101 | 739A 83 | |
| F.1o | Cosmic Ray Neutron Cts (Moscow) | 733A107 | 734A 98 | 735A 88 | 736A 88 | 737A 91 | 738A101 | 739A 83 | |
| F.1p | Cosmic Ray Neutron Cts (Calgary) | 733A107 | 734A 98 | 735A 88 | 736A 88 | 737A 91 | 738A101 | 739A 83 | |
| H. | MISCELLANEOUS | | | | | | | | |
| H.60 | ISES Alert Periods | 732A 20 | 733A 20 | 734A 19 | 735A 20 | 736A 19 | 737A 20 | 738A 20 | 739A 18 |

The entry "733A 44" under Jul, for example, means that the sunspot drawings for Jul appear in SOLAR-GEOPHYSICAL DATA No. 733 Part I, and that they begin on page 44 "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

# CONTENTS

Comprehensive Reports Number 739 Part II

## DATA FOR SEPTEMBER 2005

# Hα SOLAR FLARES

## SEPTEMBER 2005

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP | Mo | Day | Dur (Min) | Imp | Opt | Xray | Obs See | Obs Type | Area Measurement Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 01 | 1305 | | 1330 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 01 | 1437 | | 1442 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 01 | 1628 | | 1704 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 01 | 2038 | | 2047 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 01 | 2108 | | 2120 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 01 | 2206 | | 2249 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 02 | 1852 | | 1922 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 02 | 1936 | | 2118 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 02 | 2126 | | 2140 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0001 | LEAR | 03 | 0410 | 0410 | 0417 | S14 | W09 | 10805 | 09 | | 2.5 | 7 | SF | | 3 | E | | 29 | | F |
| | | 03 | 1727 | | 1749 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 04 | 1005 | | 1115 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 04 | 1125 | | 1150 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 04 | 1159 | | 1850 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 04 | 1918 | | 1950 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 1005 | | 1016 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 1406 | | 1408 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 1559 | | 1640 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 1713 | | 1721 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 1736 | | 1741 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 1815 | | 1954 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 2111 | | 2132 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 05 | 2214 | | 2252 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 0100 | | 0109 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 0118 | | 0620 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1240 | | 1244 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1246 | | 1255 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1300 | | 1303 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1306 | | 1310 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1312 | | 1317 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1319 | | 1325 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1329 | | 1331 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 1749 | | 1830 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 06 | 2038 | | 2400 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 0000 | | 0619 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 0707 | | 0709 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 1031 | | 1032 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 1143 | | 1311 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 1324 | | 1348 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 1431 | | 1544 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 07 | 1622 | | 1629 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0002 | HOLL | 07 | 1724 | 1728 | 1847 | S06 | E89 | 10808 | 09 | | 14.4 | 83 | 3B | | 3 | E | | 643 | | MY |
| | | 07 | 1751 | | 1805 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0003 | KHAR | 08 | 0955 | | 1005 | S12 | E75 | 10808 | 09 | | 14.1 | 10 | SF | | 2 | P | 0958 | 40 | | DLO |
| 0004 | KANZ | 08 | 1435 | 1440U | 1440D | S11 | E70 | 10808 | 09 | | 13.9 | 5D | SF | | 2 | E | | | | |
| 0005 | HOLL | 08 | 1700 | 1700 | 1715 | S10 | E81 | 10808 | 09 | | 14.8 | 15 | SF | | 3 | E | | 22 | | F |
| | | 08 | 1928 | | 2031 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0006 | HOLL | 08 | 2052 | 2105 | 2442 | S11 | E74 | 10808 | 09 | | 14.4 | 230 | 2B | | 3 | E | | 370 | | MU |
| | | 08 | 2109 | | 2118 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0007 | LEAR | 08 | 2300 | 2350 | 2432 | S15 | E82 | 10808 | 09 | | 15.2 | 92 | SF | | 3 | E | | 63 | | YZ |
| 0008 | LEAR | 09 | 0217 | 0219 | 0223 | S11 | E69 | 10808 | 09 | | 14.3 | 6 | SF | | 3 | E | | 10 | | F |
| 0009 | LEAR | 09 | 0449 | 0450 | 0526 | S10 | E67 | 10808 | 09 | | 14.2 | 37 | SF | | 3 | E | | 38 | | FH |
| 0010 | LEAR | 09 | 0533 | 0550 | 0659 | S10 | E66 | 10808 | 09 | | 14.2 | 86 | 1F | | 3 | E | | 235 | | FH |
| 0011 | KANZ | 09 | 0606E | 0606U | 0800 | S12 | E59 | 10808 | 09 | | 13.7 | 114D | 1F | | 2 | E | | | | |

SEPTEMBER 2005

| 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 | Area Measurement Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0012 | LEAR | 09 | 0700 | 0701 | 0707 | S10 | E66 | 10808 | 09 | 14.2 | 7 | SF | | 3 | E | | 11 | | |
| 0013 | LEAR | 09 | 0729 | 0751 | 0801 | S10 | E65 | 10808 | 09 | 14.2 | 32 | SF | | 3 | E | | 26 | | |
| 0014 | | 09 | 0825 | 0826 | 0830 | S10 | E64 | 10808 | 09 | 14.1 | 5 | SF | | | | | 17 | | |
| | KANZ | 09 | 0825 | 0826 | 0830 | S11 | E63 | 10808 | 09 | 14.1 | 5 | SF | | 2 | E | | | | |
| | LEAR | 09 | 0825 | 0826 | 0831 | S10 | E65 | 10808 | 09 | 14.2 | 6 | SF | | 3 | E | | 17 | | |
| 0015 | LEAR | 09 | 0955E | 1000U | 1005D | S10 | E64 | 10808 | 09 | 14.2 | 10D | SF | | 1 | E | | 94 | | F |
| | | 09 | 1006 | | 1019 | No Flare Patrol | | | | | | | | | | | | | |
| 0016 | KHAR | 09 | 1020E | | 1115 | S12 | E62 | 10808 | 09 | 14.1 | 55D | 1N | | 2 | P | 1038 | 320 | | EO |
| | | 09 | 1131 | | 1345 | No Flare Patrol | | | | | | | | | | | | | |
| 0017 | HOLL | 09 | 1424 | 1424 | 1427 | S10 | E61 | 10808 | 09 | 14.2 | 3 | SF | | 3 | E | | 11 | | |
| 0018 | HOLL | 09 | 1526 | 1526 | 1531 | S10 | E58 | 10808 | 09 | 14.0 | 5 | SF | | 3 | E | | 57 | | F |
| 0019 | HOLL | 09 | 1743 | 1755 | 1840 | S10 | E62 | 10808 | 09 | 14.4 | 57 | SF | | 3 | E | | 69 | | |
| 0020 | LEAR | 09 | 2312 | 2318 | 2330 | S10 | E57 | 10808 | 09 | 14.2 | 18 | SF | | 2 | E | | 25 | | |
| 0021 | LEAR | 09 | 2331 | 2331 | 2335 | S10 | E57 | 10808 | 09 | 14.3 | 4 | SF | | 2 | E | | 18 | | |
| 0022 | LEAR | 09 | 2336 | 2338 | 2342 | S10 | E57 | 10808 | 09 | 14.3 | 6 | SF | | 2 | E | | 10 | | |
| 0023 | LEAR | 09 | 2347 | 2428 | 2449 | S10 | E56 | 10808 | 09 | 14.2 | 62 | SF | | 3 | E | | 31 | | |
| 0024 | HOLL | 10 | 0027 | 0032U | 0036D | S14 | E57 | 10808 | 09 | 14.3 | 9D | SF | | 3 | E | | 24 | | |
| 0025 | LEAR | 10 | 0105 | 0107 | 0110 | S10 | E56 | 10808 | 09 | 14.2 | 5 | SF | | 3 | E | | 28 | | |
| 0026 | LEAR | 10 | 0154 | 0154 | 0159 | S10 | E55 | 10808 | 09 | 14.2 | 5 | SF | | 3 | E | | 23 | | |
| | | 10 | 0217 | | 0253 | No Flare Patrol | | | | | | | | | | | | | |
| 0027 | LEAR | 10 | 0254E | 0255 | 0257 | S10 | E55 | 10808 | 09 | 14.2 | 3D | SF | | 3 | E | | 20 | | |
| 0028 | LEAR | 10 | 0348 | 0401 | 0407 | S10 | E54 | 10808 | 09 | 14.2 | 19 | SF | | 3 | E | | 27 | | F |
| 0029 | LEAR | 10 | 0407 | 0409 | 0413 | S10 | E54 | 10808 | 09 | 14.2 | 6 | SF | | 3 | E | | 26 | | F |
| 0030 | LEAR | 10 | 0413 | 0417 | 0423 | S10 | E54 | 10808 | 09 | 14.2 | 10 | SF | | 3 | E | | 22 | | F |
| 0031 | LEAR | 10 | 0424 | 0424 | 0429 | S10 | E54 | 10808 | 09 | 14.2 | 5 | SF | | 3 | E | | 14 | | |
| 0032 | LEAR | 10 | 0432 | 0446 | 0457 | S10 | E54 | 10808 | 09 | 14.2 | 25 | SF | | 3 | E | | 36 | | F |
| 0033 | LEAR | 10 | 0457 | 0504 | 0506 | S10 | E54 | 10808 | 09 | 14.3 | 9 | SF | | 3 | E | | 16 | | F |
| 0034 | LEAR | 10 | 0533 | 0534 | 0536 | S10 | E53 | 10808 | 09 | 14.2 | 3 | SF | | 3 | E | | 18 | | F |
| 0035 | SVTO | 10 | 0609E | 0609U | 0627D | S10 | E61 | 10808 | 09 | 14.8 | 18D | 1F | | 2 | E | | 138 | | H |
| 0036 | LEAR | 10 | 0542 | 0614 | 0734 | S11 | E51 | 10808 | 09 | 14.1 | 112 | 2N | | 3 | E | | 321 | | FZ |
| 0037 | KANZ | 10 | 0649E | 0649E | 0743 | S11 | E50 | 10808 | 09 | 14.0 | 54D | 2N | | 2 | E | | | | |
| 0038 | LEAR | 10 | 0735 | 0738 | 0744 | S10 | E52 | 10808 | 09 | 14.2 | 9 | SF | | 3 | E | | 10 | | F |
| 0039 | LEAR | 10 | 0745 | 0904 | 1006D | S10 | E51 | 10808 | 09 | 14.1 | 141D | 1F | | 3 | E | | 106 | | F |
| 0040 | KANZ | 10 | 0745 | 0913U | 0914U | S11 | E49 | 10808 | 09 | 14.0 | 89U | 1F | | 2 | E | | | | |
| 0041 | KANZ | 10 | 1303 | 1327 | 1344D | S11 | E46 | 10808 | 09 | 14.0 | 41D | 1F | | 2 | E | | | | |
| | | 10 | 1329 | | 1331 | No Flare Patrol | | | | | | | | | | | | | |

# Hα SOLAR FLARES

## SEPTEMBER 2005

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP | Mo | Day | Dur (Min) | Imp | Opt | Xray | Obs See | Obs Type | Area Measurement Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0042 | HOLL | 10 | 1335 | 1342 | 1444 | S11 | E46 | 10808 | 09 | 14.0 | | 69 | 1F | | | 3 | E | | 174 | | F |
| | | 10 | 1344 | | 1350 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 10 | 1356 | | 1756 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0043 | HOLL | 10 | 1758E | 1758 | 1806 | S10 | E42 | 10808 | 09 | 13.9 | | 8D | SF | | | 3 | E | | 26 | | F |
| 0044 | HOLL | 10 | 1808 | 1809 | 1815 | S11 | E43 | 10808 | 09 | 14.0 | | 7 | SF | | | 3 | E | | 15 | | F |
| | | 10 | 1851 | | 1856 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0045 | HOLL | 10 | 1915 | 1923 | 2039 | S10 | E45 | 10808 | 09 | 14.2 | | 84 | 1N | | | 3 | E | | 202 | | EF |
| 0046 | LEAR | 11 | 0134 | 0240 | 0304 | S10 | E42 | 10808 | 09 | 14.2 | | 90 | SF | | | 3 | E | | 93 | | F |
| | | 11 | 0216 | | 0240 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0047 | LEAR | 11 | 0611 | 0618 | 0636 | S10 | E35 | 10808 | 09 | 13.9 | | 25 | SF | | | 3 | E | | 25 | | FU |
| 0048 | | 11 | 12455 | 12521 | 1323 | S14 | E39 | 10808 | 09 | 14.5 | | 38 | 1F | | | | | | 39 | | FH |
| | KANZ | 11 | 1245 | 1253 | 1423U | S15 | E36 | 10808 | 09 | 14.2 | | 98U | 1F | | | 2 | E | | | | |
| | SVTO | 11 | 1250 | 1252 | 1323 | S13 | E42 | 10808 | 09 | 14.7 | | 33 | SF | | | 3 | E | | 39 | | FH |
| 0049 | HOLL | 11 | 1335E | 1335U | 1437D | S16 | E39 | 10808 | 09 | 14.5 | | 62D | 1F | | | 3 | E | | 107 | | FU |
| 0050 | HOLL | 11 | 1440 | 1450 | 1458 | S16 | E37 | 10808 | 09 | 14.4 | | 18 | SF | | | 3 | E | | 12 | | F |
| 0051 | HOLL | 11 | 1646 | 1648 | 1701 | S11 | E31 | 10808 | 09 | 14.0 | | 15 | SF | | | 3 | E | | 41 | | F |
| | | 11 | 1837 | | 1938 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 11 | 1947 | | 2103 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0052 | HOLL | 11 | 2214 | 2215 | 2223 | S10 | E27 | 10808 | 09 | 13.9 | | 9 | SF | | | 3 | E | | 62 | | F |
| | | 11 | 2302 | | 2317 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0053 | | 11 | 23221 | 23241 | 2343 | S09 | E30 | 10808 | 09 | 14.2 | | 21 | SF | | | | | | 36 | | E |
| | LEAR | 11 | 2322 | 2324 | 2344 | S10 | E30 | 10808 | 09 | 14.2 | | 22 | SF | | | 3 | E | | 34 | | E |
| | HOLL | 11 | 2323 | 2325 | 2342 | S08 | E31 | 10808 | 09 | 14.3 | | 19 | SF | | | 3 | E | | 37 | | |
| | | 12 | 0108 | | 0212 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 12 | 0254 | | 0605 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0054 | | 12 | 06591 | 0701 | 0705 | S12 | E32 | 10808 | 09 | 14.7 | | 6 | 1F | | | | | | 147 | | F |
| | KANZ | 12 | 0659 | 0701 | 0705 | S12 | E30 | 10808 | 09 | 14.5 | | 6 | 1F | | | 2 | E | | | | |
| | SVTO | 12 | 0700 | 0701 | 0705 | S11 | E33 | 10808 | 09 | 14.8 | | 5 | 1F | | | 3 | E | | 147 | | F |
| 0055 | | 12 | 08423 | 0849 | 1105 | S12 | E25 | 10808 | 09 | 14.2 | | 143 | 2F | | | | | | 319 | | FU |
| | KANZ | 12 | 0842 | 0849 | 1105 | S13 | E25 | 10808 | 09 | 14.2 | | 143 | 2F | | | 2 | E | | | | |
| | SVTO | 12 | 0845 | 0847U | 0930D | S11 | E25 | 10808 | 09 | 14.2 | | 45D | 2F | | | 3 | E | | 319 | | UF |
| | | 12 | 1342 | | 1346 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 12 | 1515 | | 1534 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 12 | 1618 | | 1635 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0056 | HOLL | 12 | 1735 | 1735 | 1746 | S10 | E20 | 10808 | 09 | 14.2 | | 11 | SF | | | 3 | E | | 17 | | |
| | | 12 | 1811 | | 1820 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0057 | HOLL | 12 | 2007 | 2008 | 2016 | S11 | E24 | 10808 | 09 | 14.6 | | 9 | 1N | | | 3 | E | | 196 | | EF |
| 0058 | LEAR | 12 | 2246 | 2305 | 2359 | S14 | E19 | 10808 | 09 | 14.4 | | 73 | 2F | | | 3 | E | | 260 | | UZ |
| 0059 | LEAR | 13 | 0056 | 0057 | 0106 | S13 | E20 | 10808 | 09 | 14.5 | | 10 | SF | | | 3 | E | | 26 | | F |
| 0060 | LEAR | 13 | 0326 | 0328 | 0339 | S15 | E19 | 10808 | 09 | 14.6 | | 13 | SF | | | 3 | E | | 23 | | |
| 0061 | LEAR | 13 | 0442 | 0442 | 0453 | S13 | E11 | 10808 | 09 | 14.0 | | 11 | SF | | | 3 | E | | 10 | | F |

SEPTEMBER 2005

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP | Mo | Day | Dur (Min) | Imp | Opt | Xray | Obs See | Obs Type | Area Measurement Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0062 | LEAR | 13 | 0635 | 0635 | 0639 | S15 | E17 | 10808 | 09 | 14.6 | | 4 | SF | | | 3 | E | | 10 | | |
| 0063 | LEAR | 13 | 0645 | 0654 | 0702 | S10 | E12 | 10808 | 09 | 14.2 | | 17 | SF | | | 3 | E | | 19 | | |
| 0064 | | 13 | 08271 | 08281 | 0832 | S14 | E15 | 10808 | 09 | 14.5 | | 5 | SF | | | | | | 18 | | |
| | KANZ | 13 | 0827 | 0828 | 0832 | S12 | E15 | 10808 | 09 | 14.5 | | 5 | SF | | | 2 | E | | | | |
| | LEAR | 13 | 0828 | 0829 | 0833 | S15 | E15 | 10808 | 09 | 14.5 | | 5 | SF | | | 3 | E | | 18 | | |
| 0065 | KHAR | 13 | 1046 | 1048 | 1054 | S10 | E13 | 10808 | 09 | 14.4 | | 8 | SF | | | 2 | P | 1049 | 30 | | DO |
| 0066 | KANZ | 13 | 1055 | 1059 | 1105 | S10 | E13 | 10808 | 09 | 14.4 | | 10 | SF | | | 2 | E | | | | |
| 0067 | KHAR | 13 | 1122 | 1124 | 1148 | S12 | E16 | 10808 | 09 | 14.7 | | 26 | 1N | | | 2 | P | 1133 | 260 | | EHO |
| | | 13 | 1206 | | 1304 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0068 | HOLL | 13 | 1339 | 1352 | 1424 | S11 | E06 | 10808 | 09 | 14.0 | | 45 | SF | | | 3 | E | | 29 | | FH |
| | | 13 | 1354 | | 1403 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 13 | 1409 | | 1421 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0069 | HOLL | 13 | 1904 | 1906 | 1910 | S09 | E01 | 10808 | 09 | 13.9 | | 6 | SF | | | 3 | E | | 21 | | F |
| 0070 | HOLL | 13 | 1922 | 1923 | 2313 | S09 | E10 | 10808 | 09 | 14.5 | | 231 | 2B | | | 3 | E | | 304 | | FU |
| 0071 | | 13 | 23144 | 2321 | 2421 | S10 | E04 | 10808 | 09 | 14.3 | | 67 | 1B | | | | | | 186 | | EF |
| | HOLL | 13 | 2314 | 2321 | 2427 | S10 | E04 | 10808 | 09 | 14.3 | | 73 | 1B | | | 3 | E | | 211 | | FE |
| | LEAR | 13 | 2318 | 2321 | 2415 | S10 | E03 | 10808 | 09 | 14.2 | | 57 | 1B | | | 3 | E | | 160 | | FE |
| 0072 | LEAR | 14 | 0202 | 0225 | 0254 | S10 | E02 | 10808 | 09 | 14.2 | | 52 | SF | | | 3 | E | | 47 | | |
| 0073 | LEAR | 14 | 0416 | 0423 | 0428 | S10 | E01 | 10808 | 09 | 14.2 | | 12 | SF | | | 3 | E | | 31 | | |
| 0074 | LEAR | 14 | 0445 | 0445 | 0451 | S10 | E00 | 10808 | 09 | 14.2 | | 6 | SF | | | 3 | E | | 14 | | |
| 0075 | LEAR | 14 | 0512 | 0514 | 0517 | S10 | E00 | 10808 | 09 | 14.2 | | 5 | SF | | | 3 | E | | 10 | | |
| 0076 | LEAR | 14 | 0633 | 0633 | 0637 | S10 | W01 | 10808 | 09 | 14.2 | | 4 | SF | | | 3 | E | | 15 | | |
| 0077 | | 14 | 0659 | 07005 | 0724 | S10 | E00 | 10808 | 09 | 14.3 | | 25 | SF | | | | | | 26 | | |
| | KANZ | 14 | 0659 | 0700 | 0724 | S11 | E01 | 10808 | 09 | 14.4 | | 25 | SF | | | 2 | E | | | | |
| | LEAR | 14 | 0659 | 0705 | 0723 | S10 | W01 | 10808 | 09 | 14.2 | | 24 | SF | | | 3 | E | | 26 | | |
| | | 14 | 1013 | | 1016 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 14 | 1022 | | 1025 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0078 | KANZ | 14 | 1032 | 1035 | 1120U | S12 | W01 | 10808 | 09 | 14.4 | | 48U | 1F | | | 2 | E | | | | |
| | | 14 | 1042 | | 1045 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 14 | 1057 | | 1101 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 14 | 1104 | | 1107 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 14 | 1114 | | 1117 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 14 | 1254 | | 1304 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 14 | 1324 | | 1406 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 14 | 1418 | | 1423 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0079 | HOLL | 14 | 1925 | 1929 | 1951 | S13 | W04 | 10808 | 09 | 14.5 | | 26 | SF | | | 3 | E | | 71 | | F |
| 0080 | HOLL | 14 | 2111 | 2112 | 2141 | S09 | W07 | 10808 | 09 | 14.3 | | 30 | SF | | | 3 | E | | 43 | | F |
| 0081 | HOLL | 14 | 2251 | 2303 | 2318 | S14 | W11 | 10808 | 09 | 14.1 | | 27 | SF | | | 3 | E | | 46 | | F |
| 0082 | | 14 | 23401 | 2341 | 2351 | S10 | W12 | 10808 | 09 | 14.1 | | 11 | SF | | | | | | 22 | | F |
| | HOLL | 14 | 2340 | 2341 | 2354 | S11 | W14 | 10808 | 09 | 13.9 | | 14 | SF | | | 3 | E | | 25 | | F |
| | LEAR | 14 | 2341 | 2341 | 2348 | S10 | W10 | 10808 | 09 | 14.2 | | 7 | SF | | | 2 | E | | 20 | | |
| 0083 | LEAR | 15 | 0057 | 0103 | 0105 | S10 | W11 | 10808 | 09 | 14.2 | | 8 | SF | | | 3 | E | | 10 | | |
| 0084 | LEAR | 15 | 0111 | 0210 | 0248 | S10 | W12 | 10808 | 09 | 14.1 | | 97 | 1N | | | 3 | E | | 201 | | FH |

# Hα SOLAR FLARES

## SEPTEMBER 2005

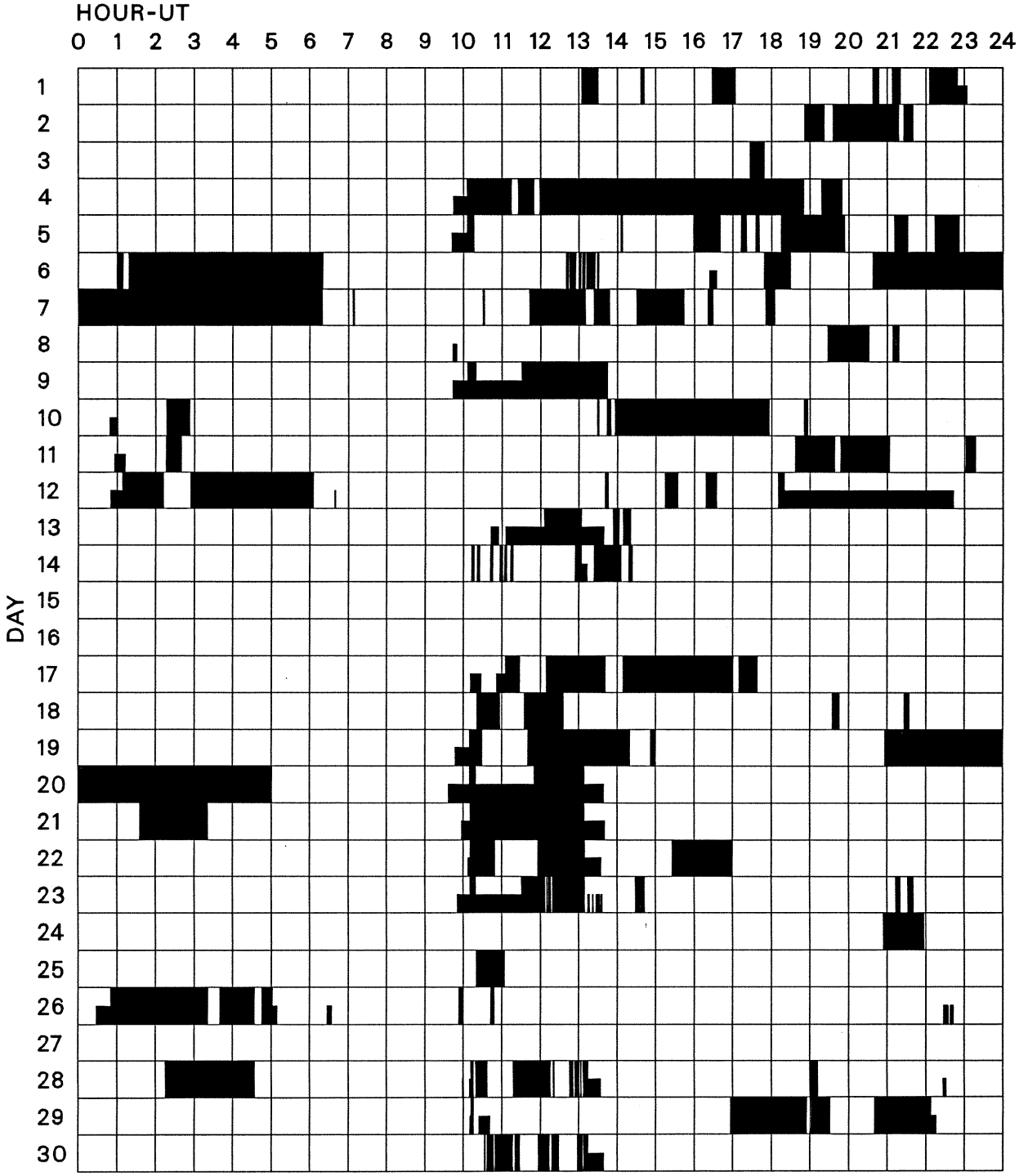
| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0085 | LEAR | 15 | 0500 | 0501 | 0504 | S10 | W13 | 10808 | 09 | 14.2 | 4 | SF | | 3 | E | | 15 | | |
| 0086 | | 15 | 06471 | 0653 | 0657 | S11 | W14 | 10808 | 09 | 14.2 | 10 | SF | | | | | 11 | | |
| | KANZ | 15 | 0647 | 0653 | 0656 | S12 | W13 | 10808 | 09 | 14.3 | 9 | SF | | 2 | E | | | | |
| | LEAR | 15 | 0648 | 0653 | 0658 | S10 | W14 | 10808 | 09 | 14.2 | 10 | SF | | 3 | E | | 11 | | |
| 0087 | | 15 | 08342 | 08373 | 0953 | S11 | W15 | 10808 | 09 | 14.2 | 79 | 2N | | | | | 242 | | FZ |
| | KANZ | 15 | 0834 | 0840 | 1010 | S11 | W15 | 10808 | 09 | 14.2 | 96 | 2N | | 2 | E | | | | |
| | LEAR | 15 | 0835 | 0837 | 1007D | S10 | W15 | 10808 | 09 | 14.2 | 92D | 1B | | 3 | E | | 219 | | |
| | SVTO | 15 | 0836 | 0837 | 0936 | S12 | W14 | 10808 | 09 | 14.3 | 60 | 2N | | 3 | E | | 266 | | ZF |
| 0088 | | 15 | 1436 | 1437 | 1440 | S12 | W16 | 10808 | 09 | 14.4 | 4 | SF | | | | | 31 | | F |
| | KANZ | 15 | 1436 | 1437 | 1438 | S13 | W15 | 10808 | 09 | 14.5 | 2 | SF | | 2 | E | | | | |
| | HOLL | 15 | 1436 | 1437 | 1441 | S10 | W18 | 10808 | 09 | 14.2 | 5 | SF | | 3 | E | | 31 | | F |
| 0089 | | 15 | 14472 | 14491 | 1509 | S12 | W16 | 10808 | 09 | 14.4 | 22 | SF | | | | | 46 | | F |
| | KANZ | 15 | 1447 | 1449 | 1524 | S12 | W16 | 10808 | 09 | 14.4 | 37 | SF | | 2 | E | | | | |
| | SVTO | 15 | 1449 | 1450 | 1454 | S13 | W16 | 10808 | 09 | 14.4 | 5 | SF | | 3 | E | | 46 | | F |
| 0090 | HOLL | 15 | 1448 | 1535 | 1546 | S12 | W18 | 10808 | 09 | 14.3 | 58 | SF | | 3 | E | | 85 | | FH |
| 0091 | HOLL | 15 | 1633 | 1650 | 1702 | S13 | W19 | 10808 | 09 | 14.2 | 29 | SF | | 3 | E | | 35 | | F |
| 0092 | HOLL | 15 | 1828 | 1829 | 1832 | S14 | W17 | 10808 | 09 | 14.5 | 4 | SF | | 3 | E | | 31 | | |
| 0093 | HOLL | 15 | 1900 | 1900 | 1931 | S11 | W19 | 10808 | 09 | 14.4 | 31 | SF | | 3 | E | | 27 | | F |
| 0094 | LEAR | 16 | 0146 | 0148 | 0405 | S13 | W26 | 10808 | 09 | 14.1 | 139 | 1B | | 3 | E | | 189 | | FU |
| 0095 | LEAR | 16 | 0522 | 0522 | 0525 | S10 | W26 | 10808 | 09 | 14.3 | 3 | SF | | 3 | E | | 18 | | |
| 0096 | LEAR | 16 | 0856 | 0856 | 0906 | S10 | W28 | 10808 | 09 | 14.3 | 10 | SF | | 3 | E | | 12 | | |
| 0097 | | 16 | 14421 | 14431 | 1452 | S12 | W30 | 10808 | 09 | 14.3 | 10 | SF | | | | | 34 | | FH |
| | HOLL | 16 | 1442 | 1443 | 1457 | S11 | W30 | 10808 | 09 | 14.3 | 15 | SF | | 3 | E | | 51 | | FH |
| | SVTO | 16 | 1443 | 1444 | 1448 | S12 | W30 | 10808 | 09 | 14.3 | 5 | SF | | 3 | E | | 16 | | F |
| 0098 | HOLL | 16 | 1505 | 1518 | 1606 | S10 | W38 | 10808 | 09 | 13.8 | 61 | SF | | 3 | E | | 57 | | FH |
| 0099 | SVTO | 16 | 1521 | 1523 | 1533 | S13 | W31 | 10808 | 09 | 14.3 | 12 | SF | | 3 | E | | 18 | | FH |
| 0100 | HOLL | 16 | 1742 | 1745 | 1822 | S11 | W33 | 10808 | 09 | 14.2 | 40 | SF | | 4 | E | | 54 | | FH |
| 0101 | HOLL | 16 | 1930 | 1935 | 2020 | S11 | W37 | 10808 | 09 | 14.0 | 50 | 1F | | 3 | E | | 229 | | FH |
| 0102 | | 16 | 23371 | 2339 | 2349 | S10 | W38 | 10808 | 09 | 14.1 | 12 | SF | | | | | 54 | | F |
| | LEAR | 16 | 2337 | 2339 | 2348 | S10 | W37 | 10808 | 09 | 14.2 | 11 | SF | | 3 | E | | 77 | | F |
| | HOLL | 16 | 2338 | 2339 | 2350 | S11 | W40 | 10808 | 09 | 14.0 | 12 | SF | | 3 | E | | 31 | | |
| 0103 | LEAR | 17 | 0212 | 0213 | 0218 | S10 | W38 | 10808 | 09 | 14.2 | 6 | SF | | 3 | E | | 14 | | |
| 0104 | LEAR | 17 | 0440 | 0441 | 0444 | S10 | W39 | 10808 | 09 | 14.3 | 4 | SF | | 3 | E | | 16 | | |
| 0105 | LEAR | 17 | 0445 | 0450 | 0500 | S10 | W39 | 10808 | 09 | 14.3 | 15 | SF | | 3 | E | | 26 | | F |
| 0106 | | 17 | 0602 | 06032 | 0656 | S11 | W40 | 10808 | 09 | 14.2 | 54 | 2N | | | | | 206 | | FUZ |
| | SVTO | 17 | 0602 | 0603 | 0619 | S12 | W40 | 10808 | 09 | 14.2 | 17 | 1F | | 3 | E | | 128 | | UF |
| | LEAR | 17 | 0602 | 0605 | 0733 | S10 | W39 | 10808 | 09 | 14.3 | 91 | 2N | | 3 | E | | 284 | | ZU |
| 0107 | KHAR | 17 | 0924 | 0931 | 0942 | S08 | W48 | 10808 | 09 | 13.8 | 18 | SF | | 2 | P | 0924 | 50 | | D |
| 0108 | KHAR | 17 | 1010 | 1015 | 1034 | N09 | E85 | 10810 | 09 | 23.8 | 24 | SN | | 2 | V | | | | H |
| | | 17 | 1106 | | 1128 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 | 1209 | | 1342 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 | 1409 | | 1701 | No Flare Patrol | | | | | | | | | | | | | |
| | | 17 | 1710 | | 1738 | No Flare Patrol | | | | | | | | | | | | | |
| 0109 | HOLL | 17 | 2217 | 2218 | 2222 | S13 | W51 | 10808 | 09 | 14.1 | 5 | SF | | 3 | E | | 30 | | FH |

SEPTEMBER 2005

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | Obs See | Obs Type | Area Measurement Time (UT) | Area Measurement Apparent (10-6 Disk) | Area Measurement Corr (Sq Deg) | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0110 | LEAR | 18 | 0143 | 0144 | 0147 | S09 | W57 | 10808 | 09 | 13.8 | 4 | SF | | 3 | E | | 11 | | |
| | | 18 | 1021 | | 1057 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 | 1135 | | 1236 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 | 1935 | | 1946 | No Flare Patrol | | | | | | | | | | | | | |
| | | 18 | 2127 | | 2134 | No Flare Patrol | | | | | | | | | | | | | |
| 0111 | LEAR | 18 | 2358 | | 2406 | S10 | W63 | 10808 | 09 | 14.3 | 8 | SF | | 3 | E | | 19 | | F |
| 0112 | HOLL | 18 | 2359 | 2359 | 2404 | S19 | W62 | 10808 | 09 | 14.3 | 5 | SF | | 3 | E | | 18 | | F |
| | | 19 | 1009 | | 1029 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 | 1141 | | 1420 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 | 1453 | | 1500 | No Flare Patrol | | | | | | | | | | | | | |
| | | 19 | 2057 | | 2400 | No Flare Patrol | | | | | | | | | | | | | |
| | | 20 | 0000 | | 0501 | No Flare Patrol | | | | | | | | | | | | | |
| | | 20 | 1009 | | 1019 | No Flare Patrol | | | | | | | | | | | | | |
| 0113 | KHAR | 20 | 1125 | 1140 | 1150D | S10 | W85 | 10808 | 09 | 14.1 | 25D | SN | | 2 | P | | | | LO |
| | | 20 | 1151 | | 1309 | No Flare Patrol | | | | | | | | | | | | | |
| | | 21 | 0135 | | 0321 | No Flare Patrol | | | | | | | | | | | | | |
| | | 21 | 1010 | | 1309 | No Flare Patrol | | | | | | | | | | | | | |
| | | 22 | 1010 | | 1049 | No Flare Patrol | | | | | | | | | | | | | |
| | | 22 | 1156 | | 1310 | No Flare Patrol | | | | | | | | | | | | | |
| | | 22 | 1526 | | 1659 | No Flare Patrol | | | | | | | | | | | | | |
| 0114 | LEAR | 23 | 0554 | 0556 | 0607 | N09 | E04 | 10810 | 09 | 23.5 | 13 | SF | | 3 | E | | 32 | | F |
| | | 23 | 1010 | | 1019 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1131 | | 1208 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1210 | | 1211 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1213 | | 1217 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1219 | | 1310 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 1429 | | 1443 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 2114 | | 2120 | No Flare Patrol | | | | | | | | | | | | | |
| | | 23 | 2133 | | 2141 | No Flare Patrol | | | | | | | | | | | | | |
| | | 24 | 2054 | | 2157 | No Flare Patrol | | | | | | | | | | | | | |
| | | 25 | 1020 | | 1104 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 0050 | | 0321 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 0340 | | 0434 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 0445 | | 0502 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 0953 | | 1000 | No Flare Patrol | | | | | | | | | | | | | |
| | | 26 | 1043 | | 1048 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 0215 | | 0434 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1012 | | 1015 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1019 | | 1037 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1118 | | 1216 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1221 | | 1222 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1246 | | 1251 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1254 | | 1258 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1300 | | 1301 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1303 | | 1304 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1307 | | 1315 | No Flare Patrol | | | | | | | | | | | | | |
| | | 28 | 1900 | | 1912 | No Flare Patrol | | | | | | | | | | | | | |
| | | 29 | 1012 | | 1015 | No Flare Patrol | | | | | | | | | | | | | |
| | | 29 | 1657 | | 1855 | No Flare Patrol | | | | | | | | | | | | | |
| | | 29 | 1902 | | 1931 | No Flare Patrol | | | | | | | | | | | | | |
| | | 29 | 2040 | | 2208 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1033 | | 1034 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1037 | | 1047 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1049 | | 1117 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1121 | | 1128 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1157 | | 1214 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1218 | | 1229 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1258 | | 1259 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1301 | | 1306 | No Flare Patrol | | | | | | | | | | | | | |
| | | 30 | 1308 | | 1315 | No Flare Patrol | | | | | | | | | | | | | |

# INTERVALS OF NO FLARE PATROL OBSERVATION
## FOR PRECEDING SOLAR FLARE TABLE

## SEPTEMBER 2005

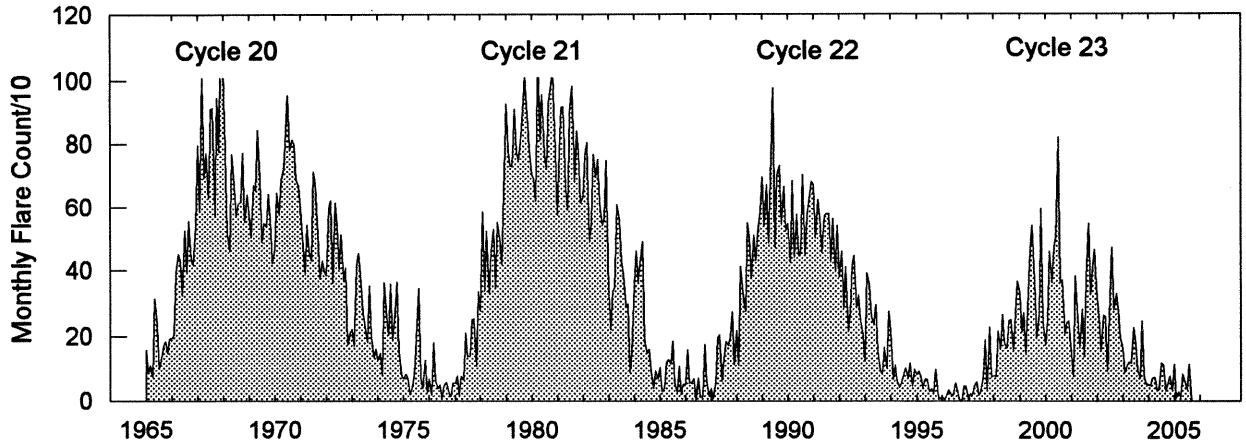



Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual patrol.

Holloman
Kanzelhoehe
Learmonth
Kharkov
San Vito

# Monthly Counts of Grouped Solar Flares
# Jan 1965 -Sep 2005






| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1965 | 158 | 85 | 110 | 74 | 315 | 231 | 99 | 127 | 173 | 184 | 150 | 193 | 1899 |
| 1966 | 194 | 205 | 390 | 449 | 429 | 323 | 528 | 391 | 558 | 432 | 417 | 543 | 4859 |
| 1967 | 796 | 589 | 1009 | 694 | 771 | 629 | 907 | 911 | 573 | 946 | 775 | 1109 | 9709 |
| 1968 | 1037 | 773 | 519 | 460 | 768 | 697 | 573 | 611 | 616 | 772 | 556 | 640 | 8022 |
| 1969 | 581 | 504 | 669 | 655 | 839 | 694 | 489 | 551 | 540 | 643 | 566 | 422 | 7153 |
| 1970 | 466 | 646 | 578 | 688 | 722 | 836 | 954 | 780 | 811 | 797 | 687 | 667 | 8632 |
| 1971 | 598 | 505 | 387 | 546 | 461 | 430 | 713 | 673 | 518 | 375 | 431 | 394 | 6031 |
| 1972 | 384 | 599 | 621 | 361 | 614 | 541 | 404 | 515 | 371 | 408 | 175 | 210 | 5203 |
| 1973 | 221 | 171 | 410 | 453 | 388 | 270 | 232 | 182 | 353 | 201 | 136 | 163 | 3180 |
| 1974 | 127 | 148 | 79 | 364 | 255 | 204 | 360 | 187 | 270 | 366 | 153 | 81 | 2594 |
| 1975 | 68 | 82 | 69 | 19 | 42 | 85 | 196 | 346 | 68 | 38 | 127 | 25 | 1165 |
| 1976 | 69 | 18 | 180 | 60 | 38 | 48 | 6 | 47 | 57 | 23 | 13 | 55 | 614 |
| 1977 | 54 | 77 | 18 | 76 | 64 | 210 | 140 | 140 | 250 | 252 | 107 | 336 | 1724 |
| 1978 | 274 | 588 | 338 | 526 | 330 | 460 | 533 | 346 | 554 | 499 | 418 | 648 | 5514 |
| 1979 | 926 | 781 | 731 | 731 | 907 | 772 | 750 | 821 | 901 | 1018 | 888 | 786 | 10012 |
| 1980 | 703 | 689 | 621 | 1092 | 811 | 956 | 763 | 720 | 924 | 988 | 1027 | 838 | 10132 |
| 1981 | 578 | 782 | 914 | 915 | 658 | 592 | 893 | 982 | 680 | 836 | 773 | 615 | 9218 |
| 1982 | 631 | 766 | 803 | 490 | 553 | 769 | 696 | 753 | 615 | 544 | 564 | 748 | 7932 |
| 1983 | 332 | 220 | 337 | 346 | 609 | 561 | 427 | 389 | 289 | 298 | 88 | 152 | 4048 |
| 1984 | 353 | 461 | 366 | 440 | 492 | 185 | 151 | 161 | 95 | 36 | 92 | 69 | 2901 |
| 1985 | 104 | 29 | 38 | 119 | 129 | 116 | 185 | 53 | 25 | 108 | 19 | 50 | 975 |
| 1986 | 51 | 158 | 54 | 56 | 68 | 3 | 71 | 12 | 14 | 174 | 56 | 13 | 730 |
| 1987 | 36 | 7 | 52 | 192 | 205 | 61 | 132 | 185 | 172 | 198 | 273 | 114 | 1627 |
| 1988 | 217 | 109 | 413 | 328 | 274 | 551 | 502 | 375 | 513 | 429 | 518 | 587 | 4816 |
| 1989 | 695 | 544 | 672 | 488 | 691 | 977 | 474 | 699 | 733 | 547 | 665 | 526 | 7711 |
| 1990 | 550 | 424 | 684 | 442 | 580 | 445 | 454 | 703 | 449 | 574 | 623 | 682 | 6610 |
| 1991 | 672 | 503 | 625 | 570 | 458 | 574 | 582 | 581 | 425 | 565 | 396 | 544 | 6495 |
| 1992 | 380 | 462 | 287 | 412 | 214 | 271 | 413 | 447 | 287 | 325 | 248 | 206 | 3952 |
| 1993 | 123 | 392 | 357 | 262 | 237 | 296 | 154 | 92 | 82 | 167 | 104 | 275 | 2541 |
| 1994 | 217 | 67 | 111 | 60 | 40 | 56 | 81 | 101 | 72 | 117 | 45 | 99 | 1066 |
| 1995 | 82 | 95 | 77 | 42 | 69 | 66 | 29 | 37 | 23 | 99 | 14 | 6 | 639 |
| 1996 | 14 | 3 | 15 | 34 | 21 | 16 | 54 | 31 | 3 | 0 | 44 | 45 | 280 |
| 1997 | 8 | 22 | 18 | 43 | 59 | 18 | 26 | 75 | 188 | 31 | 228 | 74 | 790 |
| 1998 | 78 | 76 | 216 | 161 | 264 | 177 | 164 | 248 | 249 | 155 | 268 | 367 | 2423 |
| 1999 | 330 | 212 | 271 | 145 | 330 | 466 | 544 | 368 | 192 | 264 | 598 | 243 | 3963 |
| 2000 | 175 | 248 | 462 | 362 | 473 | 505 | 818 | 364 | 372 | 208 | 241 | 246 | 4474 |
| 2001 | 147 | 77 | 383 | 284 | 164 | 282 | 137 | 376 | 549 | 325 | 405 | 468 | 3597 |
| 2002 | 318 | 261 | 155 | 263 | 259 | 91 | 318 | 474 | 280 | 329 | 279 | 196 | 3223 |
| 2003 | 164 | 87 | 112 | 122 | 117 | 226 | 181 | 94 | 73 | 245 | 78 | 53 | 1552 |
| 2004 | 49 | 47 | 71 | 72 | 32 | 33 | 118 | 112 | 30 | 54 | 76 | 34 | 728 |
| 2005 | 114 | 10 | 28 | 11 | 82 | 56 | 81 | 35 | 114 | | | | 531 |

The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.

# SOLAR RADIO EMISSION
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 610 | LEAR | 8 | S | 2322.0 | 2322.0 | U | 78.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | PALE | 8 | S | 2323.0 | 2323.0 | U | 71.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 2339.0 | 2339.0 | U | 89.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 | S | 2340.0 | 2340.0 | U | 81.0 | | | QL=4 ST=2 TYP=3 |
| 02 | 245 | PALE | 43 | NS | 2345.0 | 2346.0 | 68.0 | 100.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 8 | S | 1704.0 | 1705.0 | 1.0 | 77.0 | | | QL=4 ST=2 TYP=3 |
| 04 | 127 | TORN | 43 | NS | 0910.0 | | 100.0 | | 2.0 | | V=1 |
| | 127 | TORN | 45 | C | 0856.2 | 0858.9 | 5.8 | 100.0 | 20.0 | | |
| 05 | 127 | TORN | 43 | NS | 0820.0 | | 100.0 | | 25.0 | | V=1 |
| | 2840 | PEKG | 20 | GRF | 0930.0 | 0959.2 | 49.0 | 20.3 | | | |
| | 33 | UPIC | 49 | GB | 0934.0 | 0939.0U | 42.0 | | | | |
| | 2950 | GORK | 22 | GRF | 0934.5 | 0937.7 | 62.3 | 9.2 | | | |
| | 2950 | GORK | 22 | GRF | 0934.5 | 1010.9 | | 10.0 | | | |
| | 900 | GORK | 23 | GRF | 0934.9 | 0944.2 | | 19.0 | | | |
| | 900 | GORK | 23 | GRF | 0934.9 | 0938.3 | 38.2 | 17.0 | | | |
| | 245 | SVTO | 48 | C | 0936.0 | 0938.0 | 5.0 | 600.0 | | | QL=4 ST=2 TYP=8 |
| | 900 | GORK | 46 | C | 0954.3 | 0956.0 | 5.3 | 34.0 | | | |
| | 900 | GORK | 46 | C | 0954.3 | 0957.2 | | 22.0 | | | |
| 06 | 127 | TORN | 44 | NS | 1210.0E | | 120.0D | | 4.0 | | V=0 |
| | 2840 | PEKG | 20 | GRF | 0744.0 | 0751.2 | 20.0 | 16.7 | | | |
| | 2800 | HIRA | 3 | S | 0747.0 | 0752.0 | 19.0 | 15.0 | | | 0 |
| | 2950 | GORK | 4 | S/F | 0747.2 | 0751.6 | 39.4 | 36.0 | | | |
| | 9100 | GORK | 20 | GRF | 0748.8 | 0752.3 | 16.6 | 12.0 | | | |
| | 2695 | SGMR | 20 | GRF | 2026.0 | 2034.0 | 57.0 | 43.0 | | | QL=4 ST=1 TYP=2 |
| | 2695 | SGMR | 20 | GRF | 2026.0E | 2034.0 | 69.0D | 43.0 | | | QL=4 ST=2 TYP=2 |
| | 4995 | SGMR | 20 | GRF | 2026.0E | 2034.0 | 75.0D | 48.0 | | | QL=4 ST=2 TYP=2 |
| | 4995 | SGMR | 20 | GRF | 2026.0 | 2034.0 | 214.0 | 48.0 | | | QL=4 ST=1 TYP=2 |
| | 2800 | HIRA | 3 | S | 2123.0 | 2124.0 | 7.0 | 15.0 | | | 0 |
| 07 | 127 | TORN | 44 | NS | 1210.0E | | 120.0D | | 10.0 | | V=1 |
| | 2950 | GORK | 20 | GRF | 0506.0U | 0524.0 | 80.0D | 4.5 | | | |
| | 9100 | GORK | 20 | GRF | 0725.3 | 0730.8 | 14.2 | 11.0 | | | |
| | 9100 | GORK | 20 | GRF | 0755.7 | 0804.2 | 43.3 | 12.0 | | | |
| | 15400 | LEAR | 8 | S | 0824.0 | 0824.0 | U | 51.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 8 | S | 0824.0 | 0824.0 | U | 60.0 | | | QL=4 ST=2 TYP=3 |
| | 2950 | GORK | 20 | GRF | 0903.3 | 0908.6 | 9.1 | 4.5 | | | |
| | 9100 | GORK | 2 | S/F | 0910.9 | 0911.1 | 0.5 | 9.3 | | | |
| | 9100 | GORK | 20 | GRF | 0950.0 | 1000.9 | 31.5 | 17.0 | | | |
| | 15400 | SGMR | 4 | S/F | 1236.0 | 1239.0 | 4.0 | 69.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 4 | S/F | 1236.0 | 1238.0 | 3.0 | 59.0 | | | QL=4 ST=3 TYP=3 |
| | 8800 | SGMR | 8 | S | 1238.0 | 1238.0 | U | 21.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 49 | GB | 1721.2 | 1736.8 | 90.5 | 5862.0 | 2931.0 | | |
| | 8800 | PALE | 8 | S | 1722.0 | 1722.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 48 | C | 1723.0 | 1736.0U | 99.0 | 23000.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | SGMR | 48 | C | 1723.0 | 1736.0U | 99.0 | 37000.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | PALE | 48 | C | 1724.0 | 1737.0 | 84.0 | 12000.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | PALE | 48 | C | 1724.0 | 1738.0 | 85.0 | 21000.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | PALE | 48 | C | 1724.0 | 1738.0 | 98.0 | 12000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | PALE | 48 | C | 1724.0 | 1737.0 | 93.0 | 17000.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | PALE | 48 | C | 1724.0 | 1737.0 | 101.0 | 25000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SGMR | 48 | C | 1725.0E | 1736.0U | 97.0D | 24000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SGMR | 49 | GB | 1725.0 | 1730.0U | 395.0 | 1200.0 | | | QL=4 ST=1 TYP=6 |
| | 2695 | SGMR | 48 | C | 1728.0E | 1736.0U | 102.0D | 27000.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SGMR | 4 | S/F | 1728.0 | 1730.0U | 392.0 | 280.0 | | | QL=4 ST=1 TYP=3 |
| | 1415 | SGMR | 48 | C | 1729.0E | 1732.0U | 96.0D | 16000.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 49 | GB | 1729.0 | 1729.0U | 391.0 | 720.0 | | | QL=4 ST=1 TYP=6 |
| | 610 | SGMR | 48 | C | 1732.0 | 1738.0U | 81.0 | 5700.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | SGMR | 4 | S/F | 1732.0 | 1732.0U | 388.0 | 41.0 | | | QL=4 ST=1 TYP=3 |
| | 280 | CUBA | 49 | GB | 1732.9 | 1737.1 | 98.1 | 473.0 | 237.0 | | |
| | 235 | CUBA | 49 | GB | 1732.9 | 1737.1 | 98.1 | 307.0 | 153.0 | | |
| | 410 | SGMR | 48 | C | 1733.0 | 1736.0U | 70.0 | 5900.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | SGMR | 48 | C | 1735.0 | 1737.0U | 66.0 | 3200.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | SGMR | 4 | S/F | 1735.0 | 1735.0U | 385.0 | 52.0 | | | QL=4 ST=1 TYP=3 |
| | 410 | PALE | 49 | GB | 1737.0 | 1739.0 | 66.0 | 3200.0 | | | QL=4 ST=2 TYP=6 |
| | 610 | PALE | 48 | C | 1737.0 | 1738.0 | 73.0 | 3400.0 | | | QL=4 ST=2 TYP=8 |

# SOLAR RADIO EMISSION
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 07 | 245 | PALE | 48 | C | 1737.0 | 1738.0 | 87.0 | 2300.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | PALE | 49 | GB | 1737.0 | 1738.0 | 383.0 | 2300.0 | | | QL=4 ST=1 TYP=6 |
| | 410 | PALE | 49 | GB | 1737.0 | 1739.0 | 383.0 | 3200.0 | | | QL=4 ST=1 TYP=6 |
| | 610 | PALE | 49 | GB | 1737.0 | 1738.0 | 383.0 | 3400.0 | | | QL=4 ST=1 TYP=6 |
| | 9500 | CUBA | 29 | PBI | 1851.7 | 1851.7 | 23.8 | 80.0 | 40.0 | | |
| | 9500 | CUBA | 2 | S/F | 1917.1 | 1923.1 | 8.5 | 12.0 | 6.0 | | |
| | 8800 | SGMR | 8 | S | 1923.0 | 1923.0 | U | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 8 | S | 1923.0 | 1923.0 | U | 63.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 40 | F | 1948.5 | 2007.1 | 35.3 | 54.0 | 27.0 | | |
| | 245 | PALE | 8 | S | 2006.0 | 2007.0 | 1.0 | 220.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 4 | S/F | 2006.0 | 2007.0 | 3.0 | 75.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 4 | S/F | 2006.0 | 2007.0 | 4.0 | 75.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SGMR | 8 | S | 2006.0 | 2006.0 | 2.0 | 62.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 8 | S | 2006.0 | 2007.0 | 1.0 | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 2 | S/F | 2039.5 | 2043.9 | 6.9 | 34.0 | 17.0 | | |
| | 4995 | PALE | 8 | S | 2043.0 | 2044.0 | 1.0 | 63.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 2043.0 | 2044.0 | 1.0 | 62.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 8 | S | 2059.0 | 2059.0 | U | 68.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 | S | 2103.0 | 2103.0 | U | 54.0 | | | QL=4 ST=2 TYP=3 |
| 08 | 235 | CUBA | 44 | NS | 1735.0E | 2130.0 | 245.0D | | 9.0 | | |
| | 9100 | GORK | 5 | S | 0638.6 | 0642.0 | 6.9 | 9.2 | | | |
| | 9100 | GORK | 21 | GRF | 0827.7 | 0954.0 | 131.3 | 15.0 | | | |
| | 9100 | GORK | 5 | S | 0845.9 | 0846.9 | 2.1 | 6.0 | | | |
| | 9100 | GORK | 2 | S/F | 0916.2 | 0916.4 | 1.0 | 10.0 | | | |
| | 15400 | SVTO | 8 | S | 1112.0 | 1112.0 | U | 90.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 1 | S | 1657.3 | 1700.2 | 6.1 | 52.0 | 26.0 | | |
| | 15400 | PALE | 4 | S/F | 1659.0 | 1700.0 | 6.0 | 310.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 4 | S/F | 1659.0 | 1700.0 | 4.0 | 390.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 1700.0 | 1700.0 | U | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 8 | S | 1700.0 | 1700.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 8 | S | 1730.0 | 1730.0 | U | 75.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 1 | S | 1742.2 | 1745.6 | 6.4 | 11.0 | 5.0 | | |
| | 15400 | PALE | 48 | C | 1950.0 | 2108.0 | 187.0 | 2200.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | PALE | 4 | S/F | 1950.0 | 1958.0 | 250.0 | 75.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 8 | S | 1956.0 | 1957.0 | 1.0 | 55.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | PALE | 8 | S | 1958.0 | 1958.0 | U | 100.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | SGMR | 8 | S | 1958.0 | 1958.0 | U | 90.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 21 | GRF | 2025.2 | 2059.9 | 109.8 | 85.0 | 42.0 | | |
| | 15400 | SGMR | 48 | C | 2026.0 | 2107.0 | 82.0 | 2600.0 | | | QL=4 ST=2 TYP=8 |
| | 9500 | CUBA | 1 | S | 2027.9 | 2029.8 | 3.8 | 23.0 | 11.0 | | |
| | 8800 | SGMR | 48 | C | 2053.0 | 2105.0 | 49.0 | 1300.0 | | | QL=4 ST=2 TYP=8 |
| | 9500 | CUBA | 4 | S/F | 2055.8 | 2105.2 | 23.1 | 380.0 | 190.0 | | |
| | 8800 | PALE | 48 | C | 2056.0 | 2105.0 | 49.0 | 1000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SGMR | 48 | C | 2101.0 | 2135.0 | 42.0 | 880.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SGMR | 48 | C | 2101.0 | 2105.0 | 179.0 | 570.0 | | | QL=4 ST=1 TYP=8 |
| | 2695 | PALE | 48 | C | 2102.0 | 2104.0 | 18.0 | 990.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SGMR | 48 | C | 2102.0 | 2119.0 | 39.0 | 1000.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | PALE | 48 | C | 2102.0 | 2104.0 | 43.0 | 990.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | PALE | 48 | C | 2102.0 | 2136.0 | 43.0 | 660.0 | | | QL=4 ST=2 TYP=8 |
| | 2800 | HIRA | 47 | GB | 2102.0 | 2104.0 | 63.0 | 575.0 | | | |
| | 2695 | PALE | 49 | GB | 2102.0 | 2104.0 | 178.0 | 990.0 | | | QL=4 ST=1 TYP=6 |
| | 4995 | PALE | 4 | S/F | 2102.0 | 2104.0 | 178.0 | 400.0 | | | QL=4 ST=1 TYP=3 |
| | 2695 | SGMR | 49 | GB | 2102.0 | 2103.0 | 178.0 | 980.0 | | | QL=4 ST=1 TYP=6 |
| | 1415 | SGMR | 48 | C | 2104.0 | 2116.0 | 13.0 | 870.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 48 | C | 2104.0 | 2116.0 | 15.0 | 870.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 48 | C | 2104.0E | 2137.0 | 42.0D | 1400.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 48 | C | 2104.0 | 2105.0 | 176.0 | 850.0 | | | QL=4 ST=1 TYP=8 |
| | 1415 | PALE | 48 | C | 2105.0 | 2106.0 | 12.0 | 1500.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | PALE | 48 | C | 2105.0 | 2106.0 | 40.0 | 1500.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | PALE | 4 | S/F | 2105.0 | 2105.0 | 175.0 | 270.0 | | | QL=4 ST=1 TYP=3 |
| | 610 | PALE | 8 | S | 2111.0 | 2111.0 | U | 56.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | PALE | 48 | C | 2111.0 | 2135.0 | 27.0 | 150.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | PALE | 4 | S/F | 2114.0 | 2114.0 | 7.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 | S | 2114.0 | 2114.0 | U | 71.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 4 | S/F | 2114.0 | 2114.0 | 7.0 | 71.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 48 | C | 2114.0 | 2138.0 | 30.0 | 180.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | SGMR | 48 | C | 2114.0 | 2137.0 | 37.0 | 130.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | PALE | 8 | S | 2121.0 | 2121.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |

# S O L A R  R A D I O  E M I S S I O N
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 08 | 245 | SGMR | 48 | C | 2122.0 | 2134.0 | 41.0 | 210.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | SGMR | 4 | S/F | 2132.0 | 2134.0 | 18.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 3 | S | 2135.2 | 2139.2 | 7.9 | 206.0 | 103.0 | | |
| | 15400 | PALE | 4 | S/F | 2257.0 | 2300.0 | 5.0 | 59.0 | | | QL=4 ST=2 TYP=3 |
| 09 | 127 | TORN | 43 | NS | 0850.0 | | 96.0U | | 4.0 | | V=1 |
| | 245 | SGMR | 43 | NS | 1120.0 | 1120.0 | 80.0 | 100.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 | NS | 1120.0 | 1120.0 | 760.0 | 100.0 | | | QL=4 ST=1 TYP=1 |
| | 280 | CUBA | 44 | NS | 1735.0E | 2130.0 | 245.0D | | 17.0 | | |
| | 15400 | LEAR | 8 | S | 0215.0 | 0216.0 | 2.0 | 70.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | LEAR | 8 | S | 0232.0 | 0232.0 | U | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | LEAR | 8 | S | 0234.0 | 0235.0 | 1.0 | 61.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 8 | S | 0234.0 | 0235.0 | 1.0 | 60.0 | | | QL=4 ST=2 TYP=3 |
| | 2804 | VORO | 45 | C | 0245.5 | 0256.3 | 12.8 | 31.7 | | | |
| | 2804 | VORO | 45 | C | 0245.5 | 0248.7 | 12.8 | 19.1 | | | |
| | 2800 | HIRA | 7 | C | 0246.0 | 0256.0 | 12.0 | 20.0 | | | |
| | 1415 | LEAR | 48 | C | 0246.0 | 0247.0 | 10.0 | 140.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | LEAR | 48 | C | 0246.0 | 0256.0 | 32.0 | 180.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | LEAR | 48 | C | 0246.0 | 0255.0 | 44.0 | 250.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | LEAR | 20 | GRF | 0246.0 | 0256.0 | 44.0 | 130.0 | | | QL=4 ST=2 TYP=2 |
| | 1415 | PALE | 48 | C | 0247.0 | 0248.0 | 10.0 | 130.0 | | | QL=4 ST=3 TYP=8 |
| | 8800 | PALE | 48 | C | 0247.0 | 0256.0 | 25.0 | 190.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | PALE | 48 | C | 0247.0 | 0256.0 | 22.0 | 200.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | PALE | 20 | GRF | 0247.0 | 0256.0 | 29.0 | 110.0 | | | QL=4 ST=2 TYP=2 |
| | 8800 | PALE | 48 | C | 0247.0 | 0256.0 | 1273.0 | 190.0 | | | QL=4 ST=1 TYP=8 |
| | 15400 | PALE | 48 | C | 0247.0 | 0256.0 | 1273.0 | 200.0 | | | QL=4 ST=1 TYP=8 |
| | 4995 | PALE | 4 | S/F | 0247.0 | 0256.0 | 1273.0 | 110.0 | | | QL=4 ST=1 TYP=3 |
| | 2804 | VORO | 29 | PBI | 0258.8 | 0308.0 | 69.3 | 14.5 | | | |
| | 9100 | GORK | 21 | GRF | 0442.0U | 0451.6 | 196.0D | 47.0 | | | |
| | 8800 | LEAR | 4 | S/F | 0447.0 | 0451.0 | 17.0 | 70.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 4 | S/F | 0449.0 | 0451.0 | 13.0 | 62.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 48 | C | 0454.0 | 0456.0 | 29.0 | 180.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SVTO | 20 | GRF | 0454.0 | 0458.0 | 29.0 | 86.0 | | | QL=4 ST=2 TYP=2 |
| | 15400 | SVTO | 48 | C | 0454.0 | 0456.0 | 1146.0 | 180.0 | | | QL=4 ST=1 TYP=8 |
| | 4995 | SVTO | 4 | S/F | 0454.0 | 0458.0 | 1146.0 | 86.0 | | | QL=4 ST=1 TYP=3 |
| | 8800 | SVTO | 20 | GRF | 0455.0 | 0458.0 | 28.0 | 93.0 | | | QL=4 ST=2 TYP=2 |
| | 8800 | SVTO | 4 | S/F | 0455.0 | 0458.0 | 1145.0 | 93.0 | | | QL=4 ST=1 TYP=3 |
| | 4995 | LEAR | 8 | S | 0458.0 | 0458.0 | 1.0 | 55.0 | | | QL=4 ST=2 TYP=3 |
| | 900 | GORK | 42 | SER | 0522.1 | 0631.3 | | 9.0 | | | |
| | 900 | GORK | 42 | SER | 0522.1 | 0625.7 | 70.3 | 9.0 | | | |
| | 9100 | GORK | 46 | C | 0529.0 | 0545.0 | | 200.0 | | | |
| | 9100 | GORK | 46 | C | 0529.0 | 0544.5 | 31.0 | 205.0 | | | |
| | 2840 | PEKG | 45 | C | 0533.0 | 0549.8 | 33.0 | 3.1 | | | |
| | 8800 | LEAR | 4 | S/F | 0534.0 | 0544.0 | 29.0 | 220.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 4 | S/F | 0534.0 | 0544.0 | 30.0 | 210.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 48 | C | 0535.0 | 0545.0 | 25.0 | 210.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | SVTO | 4 | S/F | 0541.0 | 0544.0 | 11.0 | 160.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | LEAR | 8 | S | 0543.0 | 0544.0 | 2.0 | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SVTO | 4 | S/F | 0544.0 | 0545.0 | 6.0 | 28.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | LEAR | 4 | S/F | 0547.0 | 0548.0 | 3.0 | 350.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SVTO | 4 | S/F | 0547.0 | 0548.0 | 3.0 | 320.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SVTO | 4 | S/F | 0547.0 | 0548.0 | 1093.0 | 320.0 | | | QL=4 ST=1 TYP=3 |
| | 2695 | SVTO | 48 | C | 0552.0 | 0602.0 | 13.0 | 200.0 | | | QL=2 ST=2 TYP=8 |
| | 2695 | SVTO | 48 | C | 0552.0 | 0600.0 | 1088.0 | 150.0 | | | QL=2 ST=1 TYP=8 |
| | 9100 | GORK | 29 | PBI | 0600.0 | 0600.0 | 47.6 | 47.0 | | | |
| | 9100 | GORK | 7 | C | 0824.2 | 0826.1 | | 9.3 | | | |
| | 9100 | GORK | 7 | C | 0824.2 | 0824.6 | 2.5 | 7.8 | | | |
| | 410 | LEAR | 8 | S | 0837.0 | 0837.0 | U | 73.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 | S | 0837.0 | 0837.0 | U | 190.0 | | | QL=2 ST=2 TYP=3 |
| | 9100 | GORK | 21 | GRF | 0903.0 | 0931.0 | 135.0D | 21.0 | | | |
| | 15400 | LEAR | 8 | S | 0929.0 | 0929.0 | 1.0 | 64.0 | | | QL=2 ST=2 TYP=3 |
| | 900 | GORK | 42 | SER | 0940.3 | 0955.0 | | 19.0 | | | |
| | 900 | GORK | 42 | SER | 0940.3 | 0946.2 | 23.0 | 15.0 | | | |
| | 900 | GORK | 42 | SER | 0940.3 | 0957.5 | | 26.0 | | | |
| | 2840 | PEKG | 3 | S | 0943.0 | 0956.1 | 35.0 | 252.2 | | | |
| | 9100 | GORK | 48 | C | 0943.1 | 0956.2 | 46.9 | 800.0 | | | |
| | 9100 | GORK | 48 | C | 0943.1 | 1004.8 | | 500.0 | | | |
| | 2950 | GORK | 48 | C | 0951.0 | 1005.0 | | 75.0 | | | |
| | 2950 | GORK | 48 | C | 0951.0 | 0956.0 | 18.0 | 230.0 | | | |

# SOLAR RADIO EMISSION
## Outstanding Occurrences

## SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | 2950 | GORK | 48 | C | 0951.0 | 0957.5 | | 100.0 | | | |
| | 8800 | SVTO | 48 | C | 0952.0 | 0956.0 | 27.0 | 930.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SVTO | 48 | C | 0953.0 | 0956.0 | 26.0 | 530.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | SVTO | 48 | C | 0953.0 | 0956.0 | 31.0 | 1500.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | LEAR | 48 | C | 0953.0 | 0956.0 | 847.0 | 580.0 | | | QL=2 ST=2 TYP=8 |
| | 2695 | SVTO | 4 | S/F | 0954.0 | 0956.0 | 18.0 | 270.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 48 | C | 0954.0 | 0956.0 | 846.0 | 1300.0 | | | QL=2 ST=2 TYP=8 |
| | 4995 | LEAR | 4 | S/F | 0954.0 | 0956.0 | 846.0 | 390.0 | | | QL=2 ST=2 TYP=3 |
| | 2695 | LEAR | 8 | S | 0955.0 | 0955.0 | 2.0 | 210.0 | | | QL=2 ST=2 TYP=3 |
| | 2695 | LEAR | 4 | S/F | 0955.0 | 0955.0 | 845.0 | 210.0 | | | QL=2 ST=1 TYP=3 |
| | 1415 | LEAR | 8 | S | 0957.0 | 0957.0 | U | 97.0 | | | QL=2 ST=2 TYP=3 |
| | 1415 | SVTO | 48 | C | 0957.0 | 1005.0 | 14.0 | 2400.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | SVTO | 48 | C | 1000.0 | 1001.0 | 11.0 | 380.0 | | | QL=2 ST=2 TYP=8 |
| | 410 | SVTO | 8 | S | 1006.0 | 1007.0 | 1.0 | 70.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 48 | C | 1006.0 | 1006.0 | 19.0 | 280.0 | | | QL=4 ST=2 TYP=8 |
| | 900 | GORK | 46 | C | 1006.5 | 1007.1 | | 35.0 | | | |
| | 900 | GORK | 46 | C | 1006.5 | 1006.8 | 2.2 | 58.0 | | | |
| | 2950 | GORK | 29 | PBI | 1009.0 | 1009.0 | 69.0D | 30.0 | | | |
| | 900 | GORK | 2 | S/F | 1024.8 | 1025.8 | 2.0 | 3.7 | | | |
| | 9100 | GORK | 29 | PBI | 1030.0 | 1030.0 | 36.3 | 50.0 | | | |
| | 245 | SVTO | 8 | S | 1031.0 | 1031.0 | 1.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 | S | 1031.0 | 1031.0 | 1.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 1109.0 | 1109.0 | U | 79.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1321.0 | 1322.0 | 1.0 | 74.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 1321.0 | 1322.0 | 1.0 | 87.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 4 | S/F | 1743.0 | 1745.0 | 8.0 | 70.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 4 | S/F | 1744.0 | 1744.0 | 5.0 | 68.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 8 | S | 1758.0 | 1758.0 | 1.0 | 61.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 8 | S | 1759.0 | 1759.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1805.0 | 1805.0 | U | 57.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1851.0 | 1852.0 | 1.0 | 180.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | PALE | 48 | C | 1904.0 | 1910.0 | 12.0 | 2000.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 48 | C | 1905.0E | 1931.0 | 149.0D | 9200.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 48 | C | 1905.0 | 1910.0 | 295.0 | 2200.0 | | | QL=4 ST=1 TYP=8 |
| | 1415 | SGMR | 48 | C | 1905.0 | 1910.0 | 295.0 | 2200.0 | | | QL=4 ST=3 TYP=8 |
| | 1415 | SGMR | 48 | C | 1905.0 | 1931.0 | 295.0 | 9200.0 | | | QL=4 ST=1 TYP=8 |
| | 4995 | SGMR | 48 | C | 1916.0E | 1949.0 | 146.0D | 12000.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | SGMR | 49 | GB | 1916.0 | 1948.0 | 144.0 | 22000.0 | | | QL=4 ST=2 TYP=6 |
| | 15400 | SGMR | 48 | C | 1916.0 | 1947.0 | 151.0 | 31000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SGMR | 48 | C | 1916.0 | 1945.0 | 284.0 | 5000.0 | | | QL=4 ST=1 TYP=8 |
| | 4995 | SGMR | 48 | C | 1916.0 | 1949.0 | 284.0 | 12000.0 | | | QL=4 ST=1 TYP=8 |
| | 8800 | SGMR | 48 | C | 1916.0 | 1930.0 | 284.0 | 2200.0 | | | QL=4 ST=1 TYP=8 |
| | 8800 | SGMR | 48 | C | 1916.0 | 1945.0 | 284.0 | 13000.0 | | | QL=4 ST=1 TYP=8 |
| | 8800 | SGMR | 48 | C | 1916.0 | 1948.0 | 284.0 | 22000.0 | | | QL=4 ST=1 TYP=8 |
| | 4995 | SGMR | 49 | GB | 1916.0 | 1930.0 | 284.0 | 1200.0 | | | QL=4 ST=1 TYP=6 |
| | 8800 | SGMR | 49 | GB | 1916.0 | 1925.0 | 284.0 | 580.0 | | | QL=4 ST=1 TYP=6 |
| | 15400 | SGMR | 49 | GB | 1916.0 | 1925.0 | 284.0 | 550.0 | | | QL=4 ST=3 TYP=6 |
| | 4995 | SGMR | 4 | S/F | 1916.0 | 1925.0 | 284.0 | 350.0 | | | QL=4 ST=1 TYP=3 |
| | 4995 | PALE | 48 | C | 1916.0 | 1949.0U | 147.0 | 14000.0 | | | QL=2 ST=2 TYP=8 |
| | 8800 | PALE | 48 | C | 1916.0 | 1948.0U | 145.0 | 22000.0 | | | QL=2 ST=2 TYP=8 |
| | 9500 | CUBA | 49 | GB | 1916.6 | 1949.0 | 67.7 | 5615.0 | 2808.0 | | |
| | 1415 | PALE | 48 | C | 1918.0 | 1936.0U | 135.0 | 3800.0 | | | QL=2 ST=2 TYP=8 |
| | 15400 | PALE | 49 | GB | 1918.0 | 1947.0U | 146.0 | 24000.0 | | | QL=2 ST=2 TYP=6 |
| | 2695 | SGMR | 48 | C | 1921.0E | 1949.0 | 140.0D | 3700.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | PALE | 48 | C | 1921.0 | 1930.0 | 279.0 | 600.0 | | | QL=4 ST=1 TYP=8 |
| | 2695 | PALE | 4 | S/F | 1921.0 | 1925.0 | 279.0 | 140.0 | | | QL=4 ST=1 TYP=3 |
| | 2695 | SGMR | 48 | C | 1921.0 | 1942.0 | 279.0 | 1700.0 | | | QL=4 ST=1 TYP=8 |
| | 2695 | SGMR | 4 | S/F | 1921.0 | 1925.0 | 279.0 | 100.0 | | | QL=4 ST=1 TYP=3 |
| | 2695 | SGMR | 4 | S/F | 1921.0 | 1925.0 | 279.0 | 100.0 | | | QL=4 ST=3 TYP=3 |
| | 2695 | PALE | 48 | C | 1921.0 | 1949.0U | 141.0 | 4200.0 | | | QL=2 ST=2 TYP=8 |
| | 410 | PALE | 8 | S | 1925.0 | 1925.0 | U | 51.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 | S | 1925.0 | 1925.0 | U | 59.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 48 | C | 1925.0 | 1945.0 | 71.0 | 810.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | PALE | 48 | C | 1925.0 | 1945.0U | 71.0 | 1000.0 | | | QL=2 ST=2 TYP=8 |
| | 610 | SGMR | 48 | C | 1929.0 | 1945.0 | 45.0 | 1300.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | PALE | 4 | S/F | 1929.0 | 1930.0 | 271.0 | 100.0 | | | QL=4 ST=1 TYP=3 |
| | 610 | SGMR | 48 | C | 1929.0 | 1945.0 | 271.0 | 1300.0 | | | QL=4 ST=1 TYP=8 |
| | 610 | SGMR | 4 | S/F | 1929.0 | 1930.0 | 271.0 | 100.0 | | | QL=4 ST=1 TYP=3 |
| | 610 | PALE | 48 | C | 1929.0 | 1945.0U | 67.0 | 1000.0 | | | QL=2 ST=2 TYP=8 |

# S O L A R  R A D I O  E M I S S I O N
## Outstanding Occurrences

## SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | 280 | CUBA | 49 | GB | 1931.9 | 1931.9U | 76.1 | 2637.0D | 1318.0D | | |
| | 235 | CUBA | 49 | GB | 1931.9 | 1931.9U | 76.1 | 2980.0D | 1490.0D | | |
| | 245 | SGMR | 48 | C | 1933.0 | 1952.0 | 48.0 | 690.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | PALE | 48 | C | 1933.0 | 1949.0U | 63.0 | 380.0 | | | QL=2 ST=2 TYP=8 |
| | 245 | PALE | 48 | C | 1933.0 | 1949.0U | 267.0 | 380.0 | | | QL=2 ST=1 TYP=8 |
| | 9500 | CUBA | 29 | PBI | 2024.3 | 2024.3 | 12.7 | 376.0 | 188.0 | | |
| | 2800 | HIRA | 7 | C | 2056.0 | 2101.0 | 183.0 | 46.0 | | | |
| | 9500 | CUBA | 4 | S/F | 2057.1 | 2101.9 | 35.1 | 623.0 | 311.0 | | |
| | 245 | PALE | 4 | S/F | 2219.0 | 2222.0 | 5.0 | 58.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | PALE | 4 | S/F | 2223.0 | 2226.0 | 7.0 | 170.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 4 | S/F | 2223.0 | 2225.0 | 5.0 | 99.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | PALE | 4 | S/F | 2224.0 | 2226.0 | 4.0 | 73.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 3 | S | 2229.0E | 2229.2 | 21.0D | 71.8 | | | |
| | 2840 | PEKG | 20 | GRF | 2252.0 | 2318.7 | 48.0 | 39.4 | | | |
| | 2804 | VORO | 46 | C | 2256.9 | 2318.0 | 29.5 | 35.0 | | | |
| | 2840 | PEKG | 20 | GRF | 2348.0 | 2355.0 | 17.0 | 12.9 | | | |
| | 2804 | VORO | 3 | S | 2350.0 | 2355.0 | 9.9 | 10.8 | | | |
| 10 | 127 | TORN | 44 | NS | 0630.0E | | 510.0D | | 16.0 | | V=1 |
| | 15400 | LEAR | 8 | S | 0152.0 | 0153.0 | 1.0 | 63.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0301.0 | 0301.0 | U | 460.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 | S | 0301.0 | 0301.0 | U | 430.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 | S | 0301.0 | 0301.0 | U | 430.0 | | | QL=4 ST=3 TYP=3 |
| | 2840 | PEKG | 1 | S | 0422.0 | 0424.2 | 6.0 | 6.9 | | | |
| | 9100 | GORK | 21 | GRF | 0424.0U | 0442.3 | 129.0D | 27.0 | | | |
| | 2950 | GORK | 21 | GRF | 0429.6 | 0442.4 | 53.5 | 7.0 | | | |
| | 2950 | GORK | 2 | S/F | 0443.8 | 0444.4 | 0.8 | 4.4 | | | |
| | 900 | GORK | 2 | S/F | 0444.2 | 0445.4 | 2.0 | 3.4 | | | |
| | 2840 | PEKG | 1 | S | 0530.0 | 0535.0 | 8.0 | 5.7 | | | |
| | 9100 | GORK | 22 | GRF | 0550.8 | 0557.6 | 32.1 | 22.0 | | | |
| | 9100 | GORK | 22 | GRF | 0550.8 | 0611.8 | | 28.0 | | | |
| | 2950 | GORK | 2 | S/F | 0554.9 | 0555.0 | 0.6 | 4.5 | | | |
| | 245 | LEAR | 8 | S | 0555.0 | 0555.0 | U | 61.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 0555.0 | 0555.0 | U | 56.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0600.0 | 0600.0 | U | 350.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 0600.0 | 0600.0 | U | 320.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 4 | S/F | 0606.0 | 0606.0 | 8.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 48 | C | 0606.0 | 0606.0 | 8.0 | 120.0 | | | QL=4 ST=2 TYP=8 |
| | 9100 | GORK | 6 | S | 0640.0 | 0643.6 | 8.6 | 12.0 | | | |
| | 2950 | GORK | 20 | GRF | 0642.2 | 0647.4 | 15.5 | 3.7 | | | |
| | 9100 | GORK | 20 | GRF | 0713.0 | 0731.1 | 26.4 | 15.0 | | | |
| | 2950 | GORK | 20 | GRF | 0715.7 | 0725.9 | 29.4 | 8.3 | | | |
| | 900 | GORK | 42 | SER | 0718.6 | 0743.4 | 96.9 | 35.0 | | | |
| | 900 | GORK | 42 | SER | 0718.6 | 0748.8 | | 50.0 | | | |
| | 9100 | GORK | 23 | GRF | 0819.4 | 0922.1 | | 45.0 | | | |
| | 9100 | GORK | 23 | GRF | 0819.4 | 0904.6 | 119.8 | 53.0 | | | |
| | 2840 | PEKG | 1 | S | 0845.0 | 0848.7 | 9.0 | 4.6 | | | |
| | 9100 | GORK | 46 | C | 0850.8 | 0852.2 | 2.7 | 17.0 | | | |
| | 9100 | GORK | 46 | C | 0850.8 | 0852.7 | | 15.0 | | | |
| | 2950 | GORK | 20 | GRF | 0909.6 | 0918.9 | 14.8 | 6.7 | | | |
| | 9100 | GORK | 2 | S/F | 1026.3 | 1027.8 | 3.6 | 18.0 | | | |
| | 8800 | SGMR | 49 | GB | 1637.0 | 1639.0 | 11.0 | 870.0 | | | QL=4 ST=2 TYP=6 |
| | 15400 | SGMR | 49 | GB | 1637.0 | 1639.0U | 54.0 | 1600.0 | | | QL=2 ST=3 TYP=6 |
| | 15400 | SGMR | 49 | GB | 1637.0 | 1639.0U | 54.0 | 1600.0 | | | QL=4 ST=2 TYP=6 |
| | 9500 | CUBA | 4 | S/F | 1637.5 | 1638.9 | 6.6 | 648.0 | 324.0 | | |
| | 2695 | SGMR | 48 | C | 1638.0 | 1640.0 | 6.0 | 600.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 8 | S | 1638.0 | 1639.0 | 1.0 | 83.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SGMR | 4 | S/F | 1638.0 | 1639.0 | 5.0 | 310.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 29 | PBI | 1644.1 | 1644.1 | 72.0 | 63.0 | 32.0 | | |
| | 15400 | SGMR | 48 | C | 1914.0 | 1922.0 | 55.0 | 390.0 | | | QL=2 ST=2 TYP=8 |
| | 4995 | SGMR | 4 | S/F | 1921.0 | 1922.0 | 6.0 | 370.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 4 | S/F | 1921.0 | 1922.0 | 6.0 | 300.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SGMR | 4 | S/F | 1921.0 | 1922.0 | 14.0 | 370.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 48 | C | 1921.0 | 1922.0 | 20.0 | 300.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | PALE | 8 | S | 1922.0 | 1922.0 | 1.0 | 59.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 8 | S | 1922.0 | 1922.0 | 2.0 | 300.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 1922.0 | 1922.0 | 1.0 | 180.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 8 | S | 1922.0 | 1922.0 | 2.0 | 220.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SGMR | 8 | S | 1922.0 | 1922.0 | 2.0 | 65.0 | | | QL=4 ST=2 TYP=3 |

# S O L A R  R A D I O  E M I S S I O N
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 15400 | PALE | 4 | S/F | 1931.0 | 1935.0 | 4.0 | 96.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 48 | C | 2124.0E | 2133.0 | 42.0D | 1900.0 | | | QL=4 ST=2 TYP=8 |
| | 2800 | HIRA | 47 | GB | 2126.0 | 2158.0 | 239.0 | 1835.0 | | | 0 |
| | 15400 | SGMR | 49 | GB | 2129.0E | 2134.0 | 18.0D | 6400.0 | | | QL=2 ST=2 TYP=6 |
| | 4995 | SGMR | 48 | C | 2129.0E | 2134.0 | 28.0D | 3700.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | SGMR | 49 | GB | 2130.0E | 2134.0 | 17.0D | 4700.0 | | | QL=4 ST=2 TYP=6 |
| | 2695 | SGMR | 48 | C | 2130.0E | 2134.0 | 31.0D | 2200.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | SGMR | 8 | S | 2131.0 | 2132.0 | 1.0 | 28.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | SGMR | 8 | S | 2131.0 | 2131.0 | 1.0 | 29.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 48 | C | 2131.0 | 2145.0 | 36.0 | 230.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | SGMR | 49 | GB | 2131.0 | 2138.0 | 42.0 | 3300.0 | | | QL=4 ST=2 TYP=6 |
| | 410 | SGMR | 4 | S/F | 2131.0 | 2137.0 | 149.0 | 79.0 | | | QL=4 ST=1 TYP=3 |
| | 245 | SGMR | 48 | C | 2137.0 | 2151.0 | 25.0 | 270.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | SGMR | 4 | S/F | 2137.0 | 2137.0 | 143.0 | 23.0 | | | QL=4 ST=1 TYP=3 |
| | 245 | SGMR | 4 | S/F | 2137.0 | 2138.0 | 143.0 | 51.0 | | | QL=4 ST=1 TYP=3 |
| | 1415 | PALE | 48 | C | 2153.0 | 2206.0 | 24.0 | 530.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | PALE | 48 | C | 2153.0 | 2211.0 | 24.0 | 1600.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | PALE | 48 | C | 2153.0 | 2206.0 | 54.0 | 530.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | PALE | 48 | C | 2153.0 | 2206.0 | 85.0 | 530.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | PALE | 48 | C | 2153.0 | 2211.0 | 101.0 | 1600.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | PALE | 4 | S/F | 2154.0 | 2154.0 | 4.0 | 230.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | PALE | 48 | C | 2154.0 | 2154.0 | 23.0 | 290.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | PALE | 4 | S/F | 2154.0 | 2154.0 | 23.0 | 280.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 48 | C | 2154.0 | 2154.0 | 54.0 | 230.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | PALE | 48 | C | 2154.0 | 2231.0 | 54.0 | 800.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | PALE | 48 | C | 2154.0 | 2251.0 | 60.0 | 910.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | PALE | 48 | C | 2154.0 | 2154.0 | 83.0 | 230.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | PALE | 48 | C | 2154.0 | 2231.0 | 80.0 | 800.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | PALE | 48 | C | 2154.0 | 2319.0 | 103.0 | 1400.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | PALE | 48 | C | 2155.0 | 2157.0 | 22.0 | 1000.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | PALE | 48 | C | 2155.0 | 2157.0 | 49.0 | 1000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | PALE | 48 | C | 2156.0 | 2214.0 | 21.0 | 1900.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | PALE | 48 | C | 2156.0 | 2214.0 | 100.0 | 1900.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | PALE | 48 | C | 2203.0 | 2214.0 | 14.0 | 1300.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | PALE | 48 | C | 2203.0 | 2214.0 | 93.0 | 1300.0 | | | QL=4 ST=2 TYP=8 |
| | 2840 | PEKG | 47 | GB | 2220.0E | 2238.7 | 140.0D | 972.7 | | | |
| | 2804 | VORO | 47 | GB | 2228.2 | 2238.5 | 240.3 | 750.4 | | | |
| | 410 | LEAR | 48 | C | 2242.0E | 2245.0U | 35.0D | 110.0 | | | QL=2 ST=2 TYP=8 |
| | 410 | LEAR | 48 | C | 2242.0E | 2245.0U | 35.0D | 110.0 | | | QL=2 ST=3 TYP=8 |
| | 610 | LEAR | 48 | C | 2242.0E | 2245.0U | 34.0D | 260.0 | | | QL=2 ST=2 TYP=8 |
| | 610 | LEAR | 48 | C | 2242.0E | 2245.0U | 34.0D | 260.0 | | | QL=2 ST=3 TYP=8 |
| | 1415 | LEAR | 48 | C | 2242.0E | 2314.0U | 35.0D | 98.0 | | | QL=2 ST=3 TYP=8 |
| | 15400 | LEAR | 48 | C | 2242.0E | 2252.0U | 34.0D | 110.0 | | | QL=2 ST=2 TYP=8 |
| | 15400 | LEAR | 48 | C | 2242.0E | 2252.0U | 35.0D | 110.0 | | | QL=2 ST=3 TYP=8 |
| | 410 | LEAR | 20 | GRF | 2242.0E | 2245.0U | 35.0D | 110.0 | | | QL=2 ST=2 TYP=2 |
| | 8800 | LEAR | 48 | C | 2242.0E | 2247.0U | 46.0D | 270.0 | | | QL=2 ST=3 TYP=8 |
| | 2695 | LEAR | 48 | C | 2242.0E | 2316.0U | 51.0D | 210.0 | | | QL=2 ST=3 TYP=8 |
| | 4995 | LEAR | 48 | C | 2242.0E | 2245.0U | 51.0D | 190.0 | | | QL=2 ST=3 TYP=8 |
| | 245 | LEAR | 20 | GRF | 2242.0E | 2244.0U | 56.0D | 95.0 | | | QL=2 ST=2 TYP=2 |
| | 245 | LEAR | 20 | GRF | 2242.0E | 2244.0U | 56.0D | 95.0 | | | QL=2 ST=3 TYP=2 |
| | 245 | LEAR | 4 | S/F | 2343.0 | 2345.0 | 10.0 | 58.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | LEAR | 20 | GRF | 2344.0 | 2349.0 | 8.0 | 130.0 | | | QL=4 ST=2 TYP=2 |
| | 2695 | PALE | 4 | S/F | 2344.0 | 2349.0 | 16.0 | 130.0 | | | QL=4 ST=3 TYP=3 |
| | 4995 | PALE | 4 | S/F | 2344.0 | 2349.0 | 16.0 | 110.0 | | | QL=4 ST=3 TYP=3 |
| | 245 | PALE | 4 | S/F | 2345.0 | 2348.0 | 4.0 | 59.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 4 | S/F | 2345.0 | 2348.0 | 4.0 | 59.0 | | | QL=4 ST=3 TYP=3 |
| | 4995 | LEAR | 4 | S/F | 2347.0 | 2349.0 | 4.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | LEAR | 8 | S | 2348.0 | 2349.0 | 2.0 | 66.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 2349.0 | 2349.0 | 1.0 | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | PALE | 4 | S/F | 2349.0 | 2349.0 | 11.0 | 54.0 | | | QL=4 ST=3 TYP=3 |
| 11 | 127 | TORN | 44 | NS | 0630.0E | | 510.0D | | 420.0 | | V=0 |
| | 245 | SGMR | 43 | NS | 1530.0 | 1530.0 | 510.0 | 78.0 | | | QL=4 ST=3 TYP=1 |
| | 245 | SVTO | 43 | NS | 1531.0 | 1541.0 | 10.0 | 61.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 | NS | 1749.0 | 1802.0 | 245.0 | 71.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | PALE | 43 | NS | 1749.0 | 1752.0 | 260.0 | 130.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | LEAR | 8 | S | 0058.0 | 0058.0 | 1.0 | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 3 | S | 0101.0 | 0106.0 | 27.0 | 34.4 | | | |
| | 15400 | LEAR | 8 | S | 0136.0 | 0136.0 | 1.0 | 61.0 | | | QL=4 ST=2 TYP=3 |

# SOLAR RADIO EMISSION
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 245 | LEAR | 4 | S/F | 0146.0 | 0148.0 | 3.0 | 91.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 4 | S/F | 0148.0 | 0149.0 | 1332.0 | 99.0 | | | QL=4 ST=3 TYP=3 |
| | 2840 | PEKG | 20 | GRF | 0152.0 | 0158.2 | 17.0 | 7.0 | | | |
| | 15400 | LEAR | 4 | S/F | 0230.0 | 0233.0 | 11.0 | 150.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 5 | S | 0230.0 | 0233.7 | 9.0 | 86.8 | | | |
| | 8800 | LEAR | 4 | S/F | 0232.0 | 0233.0 | 8.0 | 70.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | LEAR | 4 | S/F | 0232.0 | 0233.0 | 1288.0 | 70.0 | | | QL=4 ST=1 TYP=3 |
| | 8800 | PALE | 4 | S/F | 0233.0 | 0234.0 | 5.0 | 83.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 4 | S/F | 0233.0 | 0234.0 | 3.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | HIRA | 8 | S | 0234.0 | 0234.0 | 1.0 | 80.0 | | | 0 |
| | 9100 | GORK | 23 | GRF | 0418.0U | 0719.7 | | 12.0 | | | |
| | 9100 | GORK | 23 | GRF | 0418.0U | 0613.8 | 195.0D | 26.0 | | | |
| | 2950 | GORK | 21 | GRF | 0421.0U | 0604.3 | 186.0D | 9.3 | | | |
| | 8800 | LEAR | 8 | S | 0543.0 | 0543.0 | 1.0 | 95.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 8 | S | 0543.0 | 0543.0 | 2.0 | 360.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SVTO | 8 | S | 0543.0 | 0543.0 | 2.0 | 97.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 8 | S | 0543.0 | 0543.0 | 2.0 | 350.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 3 | S | 0543.0 | 0543.9 | 4.7 | 100.0 | | | |
| | 9100 | GORK | 4 | S/F | 0610.2 | 0610.9 | 1.4 | 13.0 | | | |
| | 2840 | PEKG | 5 | S | 0706.0 | 0709.3 | 8.0 | 30.2 | | | |
| | 2695 | SVTO | 8 | S | 0709.0 | 0709.0 | U | 51.0 | | | QL=4 ST=2 TYP=3 |
| | 2950 | GORK | 4 | S/F | 0709.1 | 0709.3 | 0.5 | 43.0 | | | |
| | 2800 | HIRA | 8 | S | 0710.0 | 0710.0 | 1.0 | 60.0 | | | 0 |
| | 9100 | GORK | 20 | GRF | 0754.0 | 1028.6 | 171.0D | 13.0 | | | |
| | 2950 | GORK | 20 | GRF | 0803.0 | 1030.0 | 162.0D | 7.0 | | | |
| | 33 | UPIC | 46 | C | 0852.0 | 0854.5 | 3.5 | | | | |
| | 410 | SGMR | 8 | S | 1206.0 | 1206.0 | 1.0 | 74.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SVTO | 48 | C | 1241.0 | 1338.0 | 97.0 | 310.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SVTO | 48 | C | 1241.0 | 1338.0 | 97.0 | 250.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SGMR | 48 | C | 1241.0 | 1339.0 | 105.0 | 250.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SGMR | 48 | C | 1241.0 | 1339.0 | 105.0 | 250.0 | | | QL=4 ST=3 TYP=8 |
| | 2695 | SGMR | 4 | S/F | 1241.0 | 1250.0 | 679.0 | 140.0 | | | QL=4 ST=3 TYP=3 |
| | 4995 | SVTO | 4 | S/F | 1241.0 | 1250.0 | 679.0 | 100.0 | | | QL=4 ST=1 TYP=3 |
| | 4995 | SVTO | 4 | S/F | 1241.0 | 1302.0 | 679.0 | 170.0 | | | QL=4 ST=1 TYP=3 |
| | 1415 | SVTO | 48 | C | 1242.0 | 1338.0 | 76.0 | 170.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SVTO | 4 | S/F | 1242.0 | 1250.0 | 678.0 | 47.0 | | | QL=4 ST=1 TYP=3 |
| | 1415 | SVTO | 4 | S/F | 1242.0 | 1250.0 | 678.0 | 58.0 | | | QL=4 ST=1 TYP=3 |
| | 4995 | SGMR | 48 | C | 1245.0 | 1339.0 | 101.0 | 230.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SGMR | 48 | C | 1245.0 | 1339.0 | 101.0 | 230.0 | | | QL=4 ST=3 TYP=8 |
| | 4995 | SGMR | 4 | S/F | 1245.0 | 1250.0 | 675.0 | 110.0 | | | QL=4 ST=3 TYP=3 |
| | 1415 | SGMR | 48 | C | 1246.0 | 1339.0 | 73.0 | 180.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 48 | C | 1246.0 | 1339.0 | 73.0 | 180.0 | | | QL=4 ST=3 TYP=8 |
| | 1415 | SGMR | 4 | S/F | 1246.0 | 1250.0 | 674.0 | 57.0 | | | QL=4 ST=1 TYP=3 |
| | 1415 | SGMR | 4 | S/F | 1246.0 | 1250.0 | 674.0 | 57.0 | | | QL=4 ST=3 TYP=3 |
| | 410 | SGMR | 48 | C | 1247.0 | 1250.0 | 66.0 | 210.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | SGMR | 48 | C | 1247.0 | 1250.0 | 66.0 | 210.0 | | | QL=4 ST=3 TYP=8 |
| | 410 | SGMR | 4 | S/F | 1247.0 | 1250.0 | 673.0 | 78.0 | | | QL=4 ST=3 TYP=3 |
| | 610 | SGMR | 48 | C | 1248.0 | 1252.0 | 65.0 | 110.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | SGMR | 48 | C | 1248.0 | 1252.0 | 65.0 | 110.0 | | | QL=4 ST=3 TYP=8 |
| | 8800 | SVTO | 48 | C | 1248.0 | 1304.0 | 90.0 | 170.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | SVTO | 48 | C | 1248.0 | 1337.0 | 90.0 | 120.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | SGMR | 4 | S/F | 1248.0 | 1250.0 | 672.0 | 48.0 | | | QL=4 ST=3 TYP=3 |
| | 245 | SGMR | 8 | S | 1249.0 | 1249.0 | U | 71.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1249.0 | 1249.0 | U | 71.0 | | | QL=4 ST=3 TYP=3 |
| | 8800 | SGMR | 48 | C | 1249.0 | 1304.0 | 62.0 | 130.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | SGMR | 48 | C | 1249.0 | 1304.0 | 62.0 | 130.0 | | | QL=4 ST=3 TYP=8 |
| | 610 | SVTO | 48 | C | 1249.0 | 1257.0 | 89.0 | 260.0 | | | QL=2 ST=2 TYP=8 |
| | 245 | SGMR | 48 | C | 1249.0 | 1339.0 | 92.0 | 190.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | SGMR | 48 | C | 1249.0 | 1339.0 | 92.0 | 190.0 | | | QL=4 ST=3 TYP=8 |
| | 245 | SVTO | 48 | C | 1249.0 | 1340.0 | 92.0 | 230.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | SGMR | 4 | S/F | 1249.0 | 1250.0 | 671.0 | 48.0 | | | QL=4 ST=1 TYP=3 |
| | 8800 | SGMR | 4 | S/F | 1249.0 | 1250.0 | 671.0 | 48.0 | | | QL=4 ST=3 TYP=3 |
| | 610 | SVTO | 48 | C | 1249.0 | 1257.0 | 671.0 | 260.0 | | | QL=2 ST=1 TYP=8 |
| | 245 | SVTO | 4 | S/F | 1249.0 | 1249.0 | 671.0 | 70.0 | | | QL=4 ST=1 TYP=3 |
| | 245 | SVTO | 4 | S/F | 1249.0 | 1301.0 | 671.0 | 140.0 | | | QL=4 ST=1 TYP=3 |
| | 610 | SVTO | 4 | S/F | 1249.0 | 1249.0 | 671.0 | 150.0 | | | QL=2 ST=1 TYP=3 |
| | 410 | SVTO | 48 | C | 1250.0 | 1250.0 | 69.0 | 210.0 | | | QL=2 ST=2 TYP=8 |
| | 15400 | SGMR | 48 | C | 1250.0 | 1304.0 | 95.0 | 96.0 | | | QL=2 ST=2 TYP=8 |
| | 15400 | SGMR | 48 | C | 1250.0 | 1304.0 | 95.0 | 96.0 | | | QL=2 ST=3 TYP=8 |

# S O L A R  R A D I O  E M I S S I O N
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 15400 | SGMR | 4 | S/F | 1250.0 | 1250.0 | 670.0 | 22.0 | | | QL=4 ST=3 TYP=3 |
| | 410 | SVTO | 48 | C | 1250.0 | 1250.0 | 670.0 | 210.0 | | | QL=2 ST=1 TYP=8 |
| | 33 | UPIC | 46 | C | 1258.0 | 1259.0 | 10.0 | | | | |
| | 235 | CUBA | 7 | C | 1334.9 | 1335.2 | 1.3 | 253.0 | 126.0 | | |
| | 9500 | CUBA | 20 | GRF | 1344.0E | 1344.0U | 134.0D | 126.0 | 63.0 | | |
| | 245 | SGMR | 8 | S | 1530.0 | 1530.0 | 1.0 | 78.0 | | | QL=4 ST=3 TYP=3 |
| | 245 | SGMR | 8 | S | 1636.0 | 1636.0 | U | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 | S | 1636.0 | 1636.0 | U | 38.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 1636.0 | 1636.0 | U | 89.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1743.0 | 1743.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 | S/F | 2034.0E | 2035.0U | 3.0D | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | HIRA | 1 | S | 2214.0 | 2214.0 | 2.0 | 10.0 | | | 0 |
| | 8800 | PALE | 8 | S | 2214.0 | 2215.0 | 1.0 | 62.0 | | | QL=4 ST=2 TYP=3 |
| 12 | 127 | TORN | 44 | NS | 0630.0E | | 60.0D | | 260.0 | | V=1 |
| | 33 | UPIC | 43 | NS | 0903.0 | | 236.0 | | | | |
| | 2804 | VORO | 41 | F | 0057.6 | 0059.6 | 2.0 | 4.9 | | | |
| | 2804 | VORO | 41 | F | 0057.6 | 0057.8 | 0.9 | 5.1 | | | |
| | 245 | LEAR | 8 | S | 0224.0 | 0224.0 | U | 67.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 | S | 0332.0 | 0332.0 | 1.0 | 100.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 | S | 0342.0 | 0342.0 | 1.0 | 68.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 8 | S | 0343.0 | 0343.0 | U | 150.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 21 | GRF | 0415.0U | 0509.5 | 246.0D | 35.0 | | | |
| | 245 | LEAR | 8 | S | 0436.0 | 0436.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 20 | GRF | 0443.0 | 0454.4 | 47.0 | 41.4 | | | |
| | 2800 | HIRA | 3 | S | 0445.0 | 0455.0 | 44.0 | 35.0 | | | 0 |
| | 2950 | GORK | 46 | C | 0446.0 | 0456.1 | | 34.0 | | | |
| | 2950 | GORK | 46 | C | 0446.0 | 0454.1 | 35.0 | 38.0 | | | |
| | 9100 | GORK | 20 | GRF | 0451.0 | 0457.2 | 18.0 | 30.0 | | | |
| | 4995 | LEAR | 4 | S/F | 0453.0 | 0456.0 | 6.0 | 63.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | LEAR | 8 | S | 0455.0 | 0457.0 | 2.0 | 57.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SVTO | 4 | S/F | 0458.0 | 0459.0 | 6.0 | 100.0 | | | QL=2 ST=2 TYP=3 |
| | 4995 | SVTO | 4 | S/F | 0459.0 | 0500.0 | 3.0 | 69.0 | | | QL=2 ST=2 TYP=3 |
| | 2950 | GORK | 29 | PBI | 0521.0 | 0521.0 | 81.0 | 10.0 | | | |
| | 2840 | PEKG | 3 | S | 0657.0 | 0700.0 | 14.0 | 83.4 | | | |
| | 2950 | GORK | 46 | C | 0657.7 | 0659.0 | 7.2 | 54.0 | | | |
| | 2950 | GORK | 46 | C | 0657.7 | 0659.9 | | 86.0 | | | |
| | 2800 | HIRA | 4 | S/F | 0658.0 | 0700.0 | 6.0 | 65.0 | | | 0 |
| | 4995 | LEAR | 8 | S | 0658.0 | 0659.0 | 2.0 | 160.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SVTO | 4 | S/F | 0658.0 | 0659.0 | 3.0 | 170.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 46 | C | 0658.1 | 0700.7 | | 44.0 | | | |
| | 9100 | GORK | 46 | C | 0658.1 | 0659.9 | 5.5 | 57.0 | | | |
| | 2695 | LEAR | 8 | S | 0659.0 | 0659.0 | 1.0 | 64.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | LEAR | 8 | S | 0659.0 | 0659.0 | 1.0 | 80.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SVTO | 8 | S | 0659.0 | 0659.0 | 2.0 | 71.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SVTO | 8 | S | 0659.0 | 0659.0 | 2.0 | 76.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 8 | S | 0700.0 | 0700.0 | U | 22.0 | | | QL=4 ST=2 TYP=3 |
| | 900 | GORK | 4 | S/F | 0712.0 | 0712.1 | 0.3 | 30.0 | | | |
| | 245 | LEAR | 8 | S | 0715.0 | 0715.0 | U | 78.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 48 | C | 0837.0 | 0848.0U | | 325.0U | | | |
| | 9100 | GORK | 48 | C | 0837.0 | 0845.0U | 23.0 | 325.0U | | | |
| | 2950 | GORK | 46 | C | 0839.0 | 0847.0U | | 140.0U | | | |
| | 2950 | GORK | 46 | C | 0839.0 | 0842.7U | 24.0 | 140.0U | | | |
| | 2840 | PEKG | 47 | GB | 0842.0 | 0847.6 | 49.0 | 991.4 | | | |
| | 8800 | LEAR | 48 | C | 0843.0 | 0847.0 | 48.0 | 3800.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | LEAR | 49 | GB | 0843.0 | 0847.0 | 47.0 | 3500.0 | | | QL=4 ST=2 TYP=6 |
| | 15400 | SVTO | 48 | C | 0843.0 | 0847.0 | 41.0 | 1800.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SVTO | 49 | GB | 0843.0 | 0847.0 | 41.0 | 980.0 | | | QL=4 ST=2 TYP=6 |
| | 8800 | SVTO | 48 | C | 0843.0 | 0847.0 | 52.0 | 4200.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SVTO | 49 | GB | 0843.0 | 0847.0 | 55.0 | 4900.0 | | | QL=4 ST=2 TYP=6 |
| | 4995 | LEAR | 49 | GB | 0843.0 | 0846.0 | 917.0 | 2700.0 | | | QL=4 ST=3 TYP=6 |
| | 8800 | LEAR | 49 | GB | 0843.0 | 0846.0 | 917.0 | 2900.0 | | | QL=4 ST=3 TYP=6 |
| | 15400 | LEAR | 48 | C | 0844.0 | 0847.0 | 27.0 | 1700.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | LEAR | 49 | GB | 0844.0 | 0847.0 | 20.0 | 960.0 | | | QL=4 ST=2 TYP=6 |
| | 2695 | LEAR | 49 | GB | 0844.0 | 0846.0 | 916.0 | 570.0 | | | QL=4 ST=3 TYP=6 |
| | 15400 | LEAR | 49 | GB | 0844.0 | 0846.0 | 916.0 | 1600.0 | | | QL=4 ST=1 TYP=6 |
| | 15400 | LEAR | 49 | GB | 0844.0 | 0846.0 | 916.0 | 1600.0 | | | QL=4 ST=3 TYP=6 |
| | 1415 | SVTO | 4 | S/F | 0847.0 | 0847.0 | 3.0 | 40.0 | | | QL=4 ST=2 TYP=3 |
| | 900 | GORK | 41 | F | 0851.4 | 0852.3 | | 19.0 | | | |

# SOLAR RADIO EMISSION
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 900 | GORK | 41 | F | 0851.4 | 0851.7 | 1.2 | 32.0 | | | |
| | 9100 | GORK | 29 | PBI | 0900.0 | 0900.0 | 103.0 | 105.0 | | | |
| | 2950 | GORK | 30 | PBI | 0903.0 | 0903.0 | 111.0D | 50.0 | | | |
| | 2950 | GORK | 2 | S/F | 0946.3 | 0946.7 | 1.5 | 7.9 | | | |
| | 245 | LEAR | 8 | S | 0954.0 | 0954.0 | 1.0 | 61.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 1016.0 | 1016.0 | U | 140.0 | | | QL=2 ST=2 TYP=3 |
| | 410 | SVTO | 8 | S | 1016.0 | 1016.0 | U | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 8 | S | 1309.0 | 1309.0 | 1.0 | 73.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 8 | S | 1309.0 | 1309.0 | U | 64.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1601.0 | 1601.0 | U | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 1601.0 | 1601.0 | U | 94.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 4 | S/F | 1934.0 | 1935.0 | 4.0 | 420.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | PALE | 8 | S | 1935.0 | 1935.0 | U | 27.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | PALE | 8 | S | 1935.0 | 1935.0 | U | 38.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 8 | S | 1935.0 | 1935.0 | U | 69.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 1935.0 | 1935.0 | U | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 8 | S | 1935.0 | 1935.0 | U | 39.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1935.0 | 1935.0 | U | 210.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1939.0 | 1940.0 | 1.0 | 55.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SGMR | 4 | S/F | 2006.0 | 2008.0 | 3.0 | 360.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SGMR | 4 | S/F | 2006.0 | 2007.0 | 234.0 | 260.0 | | | QL=4 ST=1 TYP=3 |
| | 9500 | CUBA | 8 | S | 2006.9 | 2007.6 | 1.6 | 364.0 | 162.0 | | |
| | 4995 | PALE | 49 | GB | 2007.0 | 2007.0 | 3.0 | 690.0 | | | QL=4 ST=2 TYP=6 |
| | 8800 | PALE | 49 | GB | 2007.0 | 2007.0 | 2.0 | 510.0 | | | QL=4 ST=2 TYP=6 |
| | 1415 | PALE | 8 | S | 2007.0 | 2008.0 | 1.0 | 73.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 8 | S | 2007.0 | 2007.0 | 1.0 | 260.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | PALE | 4 | S/F | 2007.0 | 2008.0 | 3.0 | 410.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 8 | S | 2007.0 | 2008.0 | 2.0 | 82.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 8 | S | 2007.0 | 2007.0 | 1.0 | 370.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 8 | S | 2007.0 | 2007.0 | 2.0 | 260.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 4 | S/F | 2007.0 | 2007.0 | 233.0 | 66.0 | | | QL=4 ST=1 TYP=3 |
| | 8800 | SGMR | 4 | S/F | 2007.0 | 2007.0 | 233.0 | 350.0 | | | QL=4 ST=1 TYP=3 |
| | 245 | PALE | 4 | S/F | 2229.0 | 2231.0 | 4.0 | 72.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 | S | 2300.0 | 2300.0 | U | 83.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 8 | S | 2300.0 | 2300.0 | U | 170.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | LEAR | 8 | S | 2301.0 | 2301.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | PALE | 8 | S | 2301.0 | 2301.0 | U | 72.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 1 | S | 2332.0 | 2335.0 | 7.0 | 5.1 | | | |
| | 2804 | VORO | 2 | S/F | 2335.0 | 2335.3 | 1.7 | 5.3 | | | |
| 13 | 245 | PALE | 43 | NS | 0115.0 | 0313.0 | 187.0 | 72.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | LEAR | 43 | NS | 0355.0 | 0925.0 | 366.0 | 89.0 | | | QL=4 ST=2 TYP=1 |
| | 127 | TORN | 44 | NS | 0630.0E | | 390.0D | | 80.0 | | V=2 |
| | 245 | SVTO | 43 | NS | 0917.0 | 1219.0 | 352.0 | 160.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 | NS | 1102.0 | 1509.0 | 285.0 | 90.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 | NS | 1102.0 | 1134.0 | 778.0 | 66.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 | NS | 1102.0 | 1509.0 | 778.0 | 90.0 | | | QL=4 ST=1 TYP=1 |
| | 235 | CUBA | 44 | NS | 1300.0E | | 510.0D | | 47.0 | | |
| | 280 | CUBA | 44 | NS | 1305.0E | | 500.0D | | 49.0 | | |
| | 245 | PALE | 43 | NS | 2229.0 | 0417.0 | 352.0 | 200.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | PALE | 8 | S | 0013.0 | 0013.0 | U | 95.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0019.0 | 0019.0 | U | 69.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 20 | GRF | 0054.0 | 0057.5 | 18.0 | 6.7 | | | |
| | 2840 | PEKG | 1 | S | 0322.0 | 0325.8 | 6.0 | 8.6 | | | |
| | 2804 | VORO | 45 | C | 0323.2 | 0324.4 | 3.6 | 7.5 | | | |
| | 2840 | PEKG | 1 | S | 0357.0 | 0359.3 | 5.0 | 5.8 | | | |
| | 245 | LEAR | 8 | S | 0358.0 | 0400.0 | 2.0 | 470.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 | S | 0359.0 | 0400.0 | 1.0 | 440.0 | | | QL=4 ST=2 TYP=3 |
| | 2804 | VORO | 8 | S | 0359.5 | 0359.8 | 0.5 | 4.9 | | | |
| | 245 | PALE | 49 | GB | 0406.0 | 0406.0 | U | 2200.0 | | | QL=4 ST=2 TYP=6 |
| | 2840 | PEKG | 45 | C | 0427.0 | 0431.0 | 9.0 | 6.7 | | | |
| | 2950 | GORK | 20 | GRF | 0628.6 | 0643.4 | 58.4 | 7.6 | | | |
| | 900 | GORK | 41 | F | 0629.2 | 0630.2 | | 5.0 | | | |
| | 900 | GORK | 41 | F | 0629.2 | 0629.3 | 1.1 | 15.0 | | | |
| | 9100 | GORK | 21 | GRF | 0632.0 | 0656.1 | 63.0 | 9.9 | | | |
| | 9100 | GORK | 2 | S/F | 0633.1 | 0633.6 | 1.3 | 11.0 | | | |
| | 9100 | GORK | 2 | S/F | 0823.7 | 0824.0 | 0.8 | 11.0 | | | |
| | 2840 | PEKG | 1 | S | 0825.0 | 0826.4 | 3.0 | 7.5 | | | |
| | 2950 | GORK | 1 | S | 0825.9 | 0826.6 | 1.1 | 5.7 | | | |

# SOLAR RADIO EMISSION
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 245 | LEAR | 8 | S | 0831.0 | 0831.0 | U | 350.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 0831.0 | 0831.0 | U | 320.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 2 | S/F | 0918.9 | 0919.1 | 0.8 | 7.5 | | | |
| | 900 | GORK | 40 | F | 0935.3 | 0936.2 | 1.7 | 40.0 | | | |
| | 9100 | GORK | 46 | C | 1044.0 | 1051.2 | | 11.0 | | | |
| | 9100 | GORK | 46 | C | 1044.0 | 1046.2 | 12.0 | 12.0 | | | |
| | 33 | UPIC | 32 | ABS | 1047.0 | 1048.0 | 12.0 | | | | |
| | 2950 | GORK | 46 | C | 1118.8 | 1121.2 | 6.2 | 110.0 | | | |
| | 2950 | GORK | 46 | C | 1118.8 | 1122.6 | | 115.0 | | | |
| | 9100 | GORK | 46 | C | 1118.9 | 1119.4 | 8.4 | 190.0 | | | |
| | 9100 | GORK | 46 | C | 1118.9 | 1120.7 | | 120.0 | | | |
| | 15400 | SGMR | 8 | S | 1119.0 | 1119.0 | 2.0 | 150.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 4 | S/F | 1119.0 | 1119.0 | 3.0 | 200.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 4 | S/F | 1119.0E | 1120.0U | 3.0D | 160.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 4 | S/F | 1120.0 | 1122.0 | 3.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SVTO | 4 | S/F | 1120.0E | 1121.0U | 6.0D | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SVTO | 4 | S/F | 1120.0E | 1121.0U | 4.0D | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SVTO | 4 | S/F | 1120.0E | 1120.0U | 4.0D | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 900 | GORK | 46 | C | 1120.5 | 1123.5 | | 16.0 | | | |
| | 900 | GORK | 46 | C | 1120.5 | 1120.7 | 12.5 | 68.0 | | | |
| | 1415 | SVTO | 8 | S | 1121.0E | 1122.0U | 2.0D | 34.0 | | | QL=4 ST=2 TYP=3 |
| | 2950 | GORK | 29 | PBI | 1125.0 | 1125.0 | 11.0 | 20.0 | | | |
| | 610 | SGMR | 8 | S | 1354.0 | 1354.0 | U | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 8 | S | 1406.0 | 1406.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SGMR | 8 | S | 1407.0 | 1407.0 | U | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 49 | GB | 1920.8 | 2036.5 | | 2173.0 | 1087.0 | | |
| | 9500 | CUBA | 49 | GB | 1920.8 | 1923.8 | 104.7 | 1699.0D | 85.0D | | |
| | 8800 | SGMR | 48 | C | 1921.0E | 1923.0 | 128.0D | 24000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | PALE | 48 | C | 1921.0 | 1923.0 | 134.0 | 17000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | PALE | 49 | GB | 1921.0 | 1923.0 | 279.0 | 17000.0 | | | QL=4 ST=1 TYP=6 |
| | 1415 | PALE | 48 | C | 1922.0 | 2021.0 | 128.0 | 840.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | PALE | 48 | C | 1922.0 | 1923.0 | 128.0 | 23000.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | SGMR | 48 | C | 1922.0E | 1923.0 | 129.0D | 17000.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | PALE | 48 | C | 1922.0 | 1923.0 | 135.0 | 6000.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | SGMR | 48 | C | 1922.0E | 2021.0 | 133.0D | 2000.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SGMR | 48 | C | 1922.0E | 1923.0 | 133.0D | 4900.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | PALE | 48 | C | 1922.0 | 1923.0 | 155.0 | 15000.0 | | | QL=4 ST=2 TYP=8 |
| | 1415 | PALE | 48 | C | 1922.0 | 1924.0 | 278.0 | 780.0 | | | QL=4 ST=1 TYP=8 |
| | 8800 | PALE | 49 | GB | 1922.0 | 1923.0 | 278.0 | 23000.0 | | | QL=4 ST=1 TYP=6 |
| | 610 | PALE | 49 | GB | 1929.0 | 2015.0 | 90.0 | 15000.0 | | | QL=4 ST=2 TYP=6 |
| | 610 | PALE | 4 | S/F | 1929.0 | 1931.0 | 271.0 | 67.0 | | | QL=4 ST=1 TYP=3 |
| | 245 | SGMR | 48 | C | 1930.0 | 1942.0 | 112.0 | 620.0 | | | QL=4 ST=2 TYP=8 |
| | 245 | PALE | 48 | C | 1930.0 | 2043.0 | 147.0 | 700.0 | | | QL=4 ST=2 TYP=8 |
| | 610 | SGMR | 49 | GB | 1931.0 | 2015.0 | 88.0 | 15000.0 | | | QL=4 ST=2 TYP=6 |
| | 410 | SGMR | 48 | C | 1932.0 | 2029.0 | 117.0 | 310.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | SGMR | 48 | C | 1932.0 | 1942.0 | 268.0 | 200.0 | | | QL=4 ST=1 TYP=8 |
| | 410 | SGMR | 48 | C | 1932.0 | 2029.0 | 268.0 | 310.0 | | | QL=4 ST=1 TYP=8 |
| | 410 | SGMR | 4 | S/F | 1932.0 | 1932.0 | 268.0 | 53.0 | | | QL=4 ST=1 TYP=3 |
| | 410 | SGMR | 4 | S/F | 1932.0 | 1942.0 | 268.0 | 200.0 | | | QL=4 ST=1 TYP=3 |
| | 235 | CUBA | 48 | C | 1936.9 | 2030.9 | 110.3 | 308.0D | 154.0D | | |
| | 410 | PALE | 48 | C | 1937.0 | 1942.0 | 38.0 | 240.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | PALE | 48 | C | 1937.0 | 2029.0 | 136.0 | 360.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | PALE | 4 | S/F | 1937.0 | 1938.0 | 263.0 | 66.0 | | | QL=4 ST=1 TYP=3 |
| | 280 | CUBA | 48 | C | 1937.8 | 2031.3 | 86.7 | 187.0 | 94.0 | | |
| | 9500 | CUBA | 30 | PBI | 2105.5 | 2105.5 | 70.0D | 200.0 | 100.0 | | |
| | 9500 | CUBA | 1 | S | 2125.9 | 2128.8 | 9.2 | 47.0 | 24.0 | | |
| | 2800 | HIRA | 3 | S | 2126.0 | 2129.0 | 14.0 | 100.0 | | | 0 |
| | 2840 | PEKG | 3 | S | 2314.0 | 2320.5 | 40.0 | 237.0 | | | |
| | 15400 | LEAR | 48 | C | 2317.0 | 2318.0 | 14.0 | 2200.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | LEAR | 49 | GB | 2317.0 | 2320.0 | 20.0 | 1600.0 | | | QL=4 ST=2 TYP=6 |
| | 8800 | LEAR | 49 | GB | 2317.0 | 2318.0 | 43.0 | 750.0 | | | QL=4 ST=1 TYP=6 |
| | 8800 | LEAR | 49 | GB | 2317.0 | 2320.0 | 43.0 | 1600.0 | | | QL=4 ST=1 TYP=6 |
| | 15400 | LEAR | 49 | GB | 2317.0 | 2318.0 | 43.0 | 2200.0 | | | QL=4 ST=1 TYP=6 |
| | 15400 | PALE | 49 | GB | 2317.0 | 2318.0 | 43.0 | 2400.0 | | | QL=4 ST=3 TYP=6 |
| | 2804 | VORO | 4 | S/F | 2317.5 | 2320.4 | 12.5 | 225.5 | | | |
| | 2800 | HIRA | 3 | S | 2318.0 | 2321.0 | 11.0 | 90.0 | | | 0 |
| | 4995 | LEAR | 49 | GB | 2318.0 | 2320.0 | 12.0 | 930.0 | | | QL=4 ST=2 TYP=6 |
| | 4995 | LEAR | 49 | GB | 2318.0 | 2320.0 | 42.0 | 840.0 | | | QL=4 ST=1 TYP=6 |
| | 4995 | LEAR | 4 | S/F | 2318.0 | 2318.0 | 42.0 | 84.0 | | | QL=4 ST=1 TYP=3 |

# S O L A R  R A D I O  E M I S S I O N
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 4995 | PALE | 49 | GB | 2318.0 | 2320.0 | 42.0 | 680.0 | | | QL=4 ST=3 TYP=6 |
| | 8800 | PALE | 49 | GB | 2318.0 | 2320.0 | 42.0 | 1400.0 | | | QL=4 ST=3 TYP=6 |
| | 410 | LEAR | 8 | S | 2319.0 | 2319.0 | U | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 | S | 2319.0 | 2319.0 | 1.0 | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | LEAR | 4 | S/F | 2319.0 | 2320.0 | 4.0 | 190.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 8 | S | 2319.0 | 2319.0 | 1.0 | 73.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 8 | S | 2319.0 | 2319.0 | 1.0 | 73.0 | | | QL=4 ST=3 TYP=3 |
| | 410 | PALE | 8 | S | 2319.0 | 2320.0 | 2.0 | 86.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | LEAR | 4 | S/F | 2319.0 | 2320.0 | 41.0 | 160.0 | | | QL=4 ST=1 TYP=3 |
| | 2695 | PALE | 4 | S/F | 2319.0 | 2320.0 | 41.0 | 180.0 | | | QL=4 ST=3 TYP=3 |
| 14 | 245 | SVTO | 43 | NS | 0448.0 | 1637.0U | 713.0 | 370.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SVTO | 43 | NS | 0448.0 | 1637.0U | 713.0 | 370.0 | | | QL=4 ST=3 TYP=1 |
| | 245 | SVTO | 43 | NS | 0448.0 | 0453.0U | 1152.0 | 70.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SVTO | 43 | NS | 0448.0 | 0501.0U | 1152.0 | 81.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SVTO | 43 | NS | 0448.0 | 0519.0U | 1152.0 | 100.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SVTO | 43 | NS | 0448.0 | 0602.0U | 1152.0 | 110.0 | | | QL=4 ST=1 TYP=1 |
| | 127 | TORN | 44 | NS | 0630.0E | | 390.0D | | 450.0 | | V=1 |
| | 33 | UPIC | 43 | NS | 0727.0 | | 332.0 | | | | |
| | 245 | SGMR | 43 | NS | 1114.0 | 1400.0 | 741.0 | 200.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 | NS | 1114.0 | 1118.0U | 766.0 | 99.0 | | | QL=4 ST=1 TYP=1 |
| | 235 | CUBA | 44 | NS | 1310.0E | | 500.0D | | 37.0 | | |
| | 245 | PALE | 43 | NS | 2229.0 | 0107.0 | 91.0 | 180.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | LEAR | 43 | NS | 2239.0 | 0107.0 | 81.0 | 180.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | LEAR | 43 | NS | 2239.0 | 0107.0 | 81.0 | 180.0 | | | QL=4 ST=3 TYP=1 |
| | 410 | PALE | 48 | C | 0027.0 | 0029.0 | 4.0 | 110.0 | | | QL=4 ST=2 TYP=8 |
| | 2840 | PEKG | 3 | S | 0155.0 | 0203.6 | 27.0 | 48.4 | | | |
| | 2800 | HIRA | 3 | S | 0158.0 | 0204.0 | 19.0 | 40.0 | | | 0 |
| | 4995 | LEAR | 8 | S | 0203.0 | 0203.0 | 2.0 | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 2804 | VORO | 3 | S | 0215.0 | 0225.0 | 22.5 | 40.6 | | | |
| | 410 | PALE | 8 | S | 0402.0 | 0402.0 | U | 74.0 | | | QL=4 ST=2 TYP=3 |
| | 2950 | GORK | 30 | PBI | 0415.0U | 0415.0U | 47.0D | 9.5 | | | |
| | 9100 | GORK | 3 | S | 0422.7 | 0422.8 | 0.5 | 9.1 | | | |
| | 2840 | PEKG | 1 | S | 0436.0 | 0439.4 | 8.0 | 7.6 | | | |
| | 9100 | GORK | 4 | S/F | 0439.5 | 0439.7 | 0.5 | 14.0 | | | |
| | 2950 | GORK | 3 | S | 0439.5 | 0439.8 | 1.1 | 7.8 | | | |
| | 2950 | GORK | 2 | S/F | 0630.9 | 0632.6 | 4.0 | 3.8 | | | |
| | 9100 | GORK | 22 | GRF | 0647.2 | 0701.1 | | 12.0 | | | |
| | 9100 | GORK | 22 | GRF | 0647.2 | 0652.1 | 24.2 | 9.2 | | | |
| | 2950 | GORK | 21 | GRF | 0743.3 | 1042.0 | 178.7D | 35.0 | | | |
| | 9100 | GORK | 22 | GRF | 0858.8 | 0903.2 | 19.4 | 15.0 | | | |
| | 9100 | GORK | 22 | GRF | 0858.8 | 0910.4 | | 22.0 | | | |
| | 9100 | GORK | 21 | GRF | 1006.2 | 1042.3 | 53.8D | 70.0 | | | |
| | 245 | SVTO | 8 | S | 1009.0 | 1009.0 | U | 170.0 | | | QL=2 ST=2 TYP=3 |
| | 15400 | SVTO | 49 | GB | 1031.0 | 1032.0 | 20.0 | 1500.0 | | | QL=4 ST=2 TYP=6 |
| | 9100 | GORK | 4 | S/F | 1031.3 | 1032.7 | 9.0 | 1020.0 | | | |
| | 2950 | GORK | 4 | S/F | 1031.5 | 1032.8 | 9.0D | 84.0 | | | |
| | 900 | GORK | 41 | F | 1032.2 | 1032.3 | 1.7 | 7.7 | | | |
| | 900 | GORK | 41 | F | 1032.2 | 1033.7 | | 4.4 | | | |
| | 8800 | SGMR | 8 | S | 1052.0E | 1053.0U | 1.0D | 64.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SGMR | 4 | S/F | 1052.0E | 1053.0U | 3.0D | 63.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 8 | S | 2010.0 | 2010.0 | U | 80.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 8 | S | 2111.0 | 2111.0 | 1.0 | 91.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 2111.0 | 2111.0 | 1.0 | 82.0 | | | QL=4 ST=2 TYP=3 |
| | 2804 | VORO | 3 | S | 2249.0 | 2249.4 | 1.8 | 12.5 | | | |
| 15 | 245 | SVTO | 43 | NS | 0449.0 | 0455.0U | 174.0 | 110.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SVTO | 43 | NS | 0449.0 | 0455.0U | 1151.0 | 110.0 | | | QL=4 ST=1 TYP=1 |
| | 127 | TORN | 44 | NS | 0630.0E | | 510.0D | | 330.0 | | V=1 |
| | 245 | SVTO | 43 | NS | 0913.0 | 0940.0 | 82.0 | 69.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 | NS | 1444.0 | 1850.0 | 470.0 | 100.0 | | | QL=4 ST=3 TYP=1 |
| | 245 | SGMR | 43 | NS | 1444.0 | 1444.0 | 556.0 | 51.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 | NS | 1444.0 | 1451.0 | 556.0 | 55.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 | NS | 1444.0 | 1850.0 | 556.0 | 100.0 | | | QL=4 ST=3 TYP=1 |
| | 245 | PALE | 43 | NS | 1839.0 | 1850.0 | 321.0 | 120.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | PALE | 43 | NS | 1839.0 | 1850.0 | 1290.0 | 120.0 | | | QL=4 ST=1 TYP=1 |
| | 4995 | LEAR | 8 | S | 0211.0 | 0212.0 | 1.0 | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0308.0 | 0308.0 | U | 58.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 1 | S | 0457.0 | 0459.3 | 4.0 | 7.2 | | | |

# SOLAR RADIO EMISSION
## Outstanding Occurrences

### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 8800 | SVTO | 8 | S | 0458.0 | 0459.0 | 1.0 | 75.0 | | | QL=2 ST=2 TYP=3 |
| | 8800 | LEAR | 8 | S | 0459.0 | 0459.0 | U | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 8 | S | 0459.0 | 0459.0 | U | 260.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 4 | S/F | 0459.0 | 0459.3 | 1.0 | 100.0 | | | |
| | 245 | LEAR | 8 | S | 0715.0 | 0715.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 22 | GRF | 0725.0 | 0744.5 | | 11.0 | | | |
| | 9100 | GORK | 22 | GRF | 0725.0 | 0730.5 | 25.0 | 15.0 | | | |
| | 9100 | GORK | 4 | S/F | 0832.2 | 0836.7 | 22.6 | 2700.0 | | | |
| | 2840 | PEKG | 3 | S | 0833.0 | 0837.6 | 63.0 | 345.8 | | | |
| | 8800 | LEAR | 49 | GB | 0834.0 | 0836.0 | 7.0 | 2500.0 | | | QL=4 ST=2 TYP=6 |
| | 15400 | LEAR | 49 | GB | 0834.0 | 0836.0 | 23.0 | 3900.0 | | | QL=4 ST=2 TYP=6 |
| | 8800 | SVTO | 49 | GB | 0834.0 | 0836.0 | 48.0 | 3200.0 | | | QL=4 ST=2 TYP=6 |
| | 4995 | SVTO | 49 | GB | 0834.0 | 0836.0 | 58.0 | 2900.0 | | | QL=4 ST=2 TYP=6 |
| | 15400 | SVTO | 49 | GB | 0834.0 | 0836.0 | 58.0 | 4100.0 | | | QL=4 ST=2 TYP=6 |
| | 2950 | GORK | 48 | C | 0834.5 | 0836.3 | 19.5 | 520.0 | | | |
| | 2950 | GORK | 48 | C | 0834.5 | 0836.8 | | 600.0 | | | |
| | 2695 | LEAR | 4 | S/F | 0835.0 | 0836.0 | 9.0 | 430.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | LEAR | 49 | GB | 0835.0 | 0836.0 | 21.0 | 2200.0 | | | QL=4 ST=2 TYP=6 |
| | 2695 | SVTO | 4 | S/F | 0835.0 | 0836.0 | 45.0 | 450.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | LEAR | 4 | S/F | 0835.0 | 0836.0 | 925.0 | 430.0 | | | QL=4 ST=1 TYP=3 |
| | 900 | GORK | 40 | F | 0835.1 | 0838.1 | 5.2 | 22.0 | | | |
| | 1415 | SVTO | 8 | S | 0836.0 | 0836.0 | 1.0 | 30.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SVTO | 4 | S/F | 0836.0 | 0836.0 | 924.0 | 30.0 | | | QL=4 ST=1 TYP=3 |
| | 245 | SVTO | 8 | S | 0840.0 | 0840.0 | U | 52.0 | | | QL=2 ST=2 TYP=3 |
| | 2950 | GORK | 29 | PBI | 0854.0 | 0854.0 | 67.0 | 36.0 | | | |
| | 9100 | GORK | 29 | PBI | 0854.8 | 0854.8 | 95.2 | 70.0 | | | |
| | 245 | SVTO | 8 | S | 0952.0 | 0952.0 | U | 290.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SVTO | 8 | S | 1130.0 | 1130.0 | 1.0 | 86.0 | | | QL=4 ST=2 TYP=3 |
| | 9100 | GORK | 7 | C | 1130.7 | 1131.0 | 2.6 | 14.0 | | | |
| | 9100 | GORK | 7 | C | 1130.7 | 1132.6 | | 7.5 | | | |
| | 900 | GORK | 46 | C | 1132.8 | 1133.1 | 1.5 | 19.0 | | | |
| | 900 | GORK | 46 | C | 1132.8 | 1133.8 | | 30.0 | | | |
| | 9500 | CUBA | 23 | GRF | 1424.0 | 1512.0 | 83.0 | 31.0 | 16.0 | | |
| | 245 | SGMR | 8 | S | 1453.0 | 1455.0 | 2.0 | 210.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 | S | 1504.0 | 1504.0 | U | 260.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 1 | S | 1647.8 | 1649.6 | 4.8 | 69.0 | 34.0 | | |
| | 2695 | SGMR | 8 | S | 1649.0 | 1649.0 | 1.0 | 52.0 | | | QL=2 ST=2 TYP=3 |
| | 8800 | SGMR | 8 | S | 1649.0 | 1649.0 | 1.0 | 60.0 | | | QL=2 ST=2 TYP=3 |
| | 9500 | CUBA | 21 | GRF | 1857.0 | 1908.0 | 38.0 | 16.0 | 8.0 | | |
| | 15400 | PALE | 49 | GB | 1858.0 | 1859.0 | 3.0 | 770.0 | | | QL=4 ST=2 TYP=6 |
| | 8800 | PALE | 4 | S/F | 1858.0 | 1859.0 | 3.0 | 340.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | SGMR | 49 | GB | 1858.0 | 1859.0 | 5.0 | 710.0 | | | QL=2 ST=1 TYP=6 |
| | 15400 | SGMR | 49 | GB | 1858.0 | 1859.0 | 5.0 | 710.0 | | | QL=2 ST=2 TYP=6 |
| | 9500 | CUBA | 3 | S | 1858.5 | 1859.5 | 3.2 | 347.0 | 173.0 | | |
| | 2695 | PALE | 8 | S | 1859.0 | 1859.0 | 1.0 | 190.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 8 | S | 1859.0 | 1859.0 | 2.0 | 370.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SGMR | 8 | S | 1859.0 | 1859.0 | 2.0 | 180.0 | | | QL=2 ST=2 TYP=3 |
| | 8800 | SGMR | 4 | S/F | 1859.0 | 1859.0 | 4.0 | 380.0 | | | QL=2 ST=2 TYP=3 |
| | 4995 | PALE | 8 | S | 2157.0 | 2157.0 | 1.0 | 80.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 2157.0 | 2157.0 | 1.0 | 300.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 8 | S | 2157.0 | 2157.0 | 1.0 | 350.0 | | | QL=4 ST=2 TYP=3 |
| 16 | 127 | TORN | 44 | NS | 0630.0E | | 500.0D | | 36.0 | | V=2 |
| | 245 | LEAR | 8 | S | 0048.0 | 0049.0 | 1.0 | 77.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0127.0 | 0127.0 | U | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 3 | S | 0142.0 | 0148.1 | 71.0 | 265.7 | | | |
| | 2804 | VORO | 4 | S/F | 0144.4 | 0148.0 | 10.6 | 220.7 | | | |
| | 15400 | LEAR | 49 | GB | 0145.0 | 0147.0 | 8.0 | 630.0 | | | QL=4 ST=2 TYP=6 |
| | 8800 | LEAR | 4 | S/F | 0145.0 | 0147.0 | 8.0 | 470.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 49 | GB | 0145.0 | 0147.0 | 5.0 | 540.0 | | | QL=4 ST=2 TYP=6 |
| | 2800 | HIRA | 3 | S | 0145.0 | 0148.0 | 23.0 | 115.0 | | | 0 |
| | 15400 | LEAR | 49 | GB | 0145.0 | 0147.0 | 1335.0 | 570.0 | | | QL=4 ST=1 TYP=6 |
| | 8800 | LEAR | 4 | S/F | 0145.0 | 0147.0 | 1335.0 | 360.0 | | | QL=4 ST=1 TYP=3 |
| | 15400 | PALE | 49 | GB | 0145.0 | 0147.0 | 1335.0 | 530.0 | | | QL=4 ST=1 TYP=6 |
| | 2695 | LEAR | 4 | S/F | 0146.0 | 0147.0 | 4.0 | 220.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | LEAR | 4 | S/F | 0146.0 | 0147.0 | 5.0 | 350.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | PALE | 4 | S/F | 0146.0 | 0147.0 | 5.0 | 250.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 4 | S/F | 0146.0 | 0147.0 | 6.0 | 420.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 4 | S/F | 0146.0 | 0147.0 | 4.0 | 420.0 | | | QL=4 ST=2 TYP=3 |

# S O L A R  R A D I O  E M I S S I O N
## Outstanding Occurrences

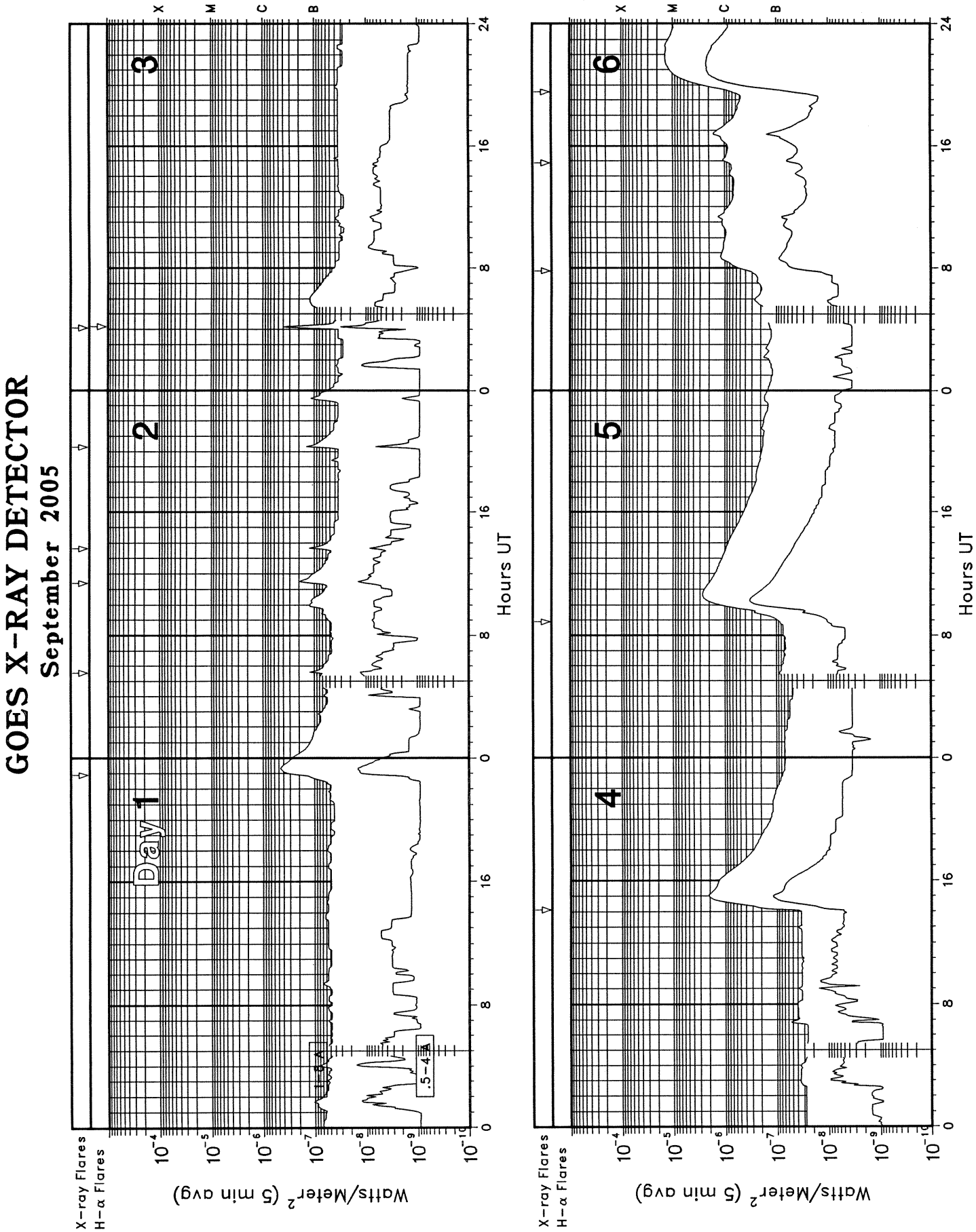
### SEPTEMBER 2005

| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 2695 | LEAR | 4 | S/F | 0146.0 | 0147.0 | 1334.0 | 150.0 | | | QL=4 ST=1 TYP=3 |
| | 4995 | LEAR | 4 | S/F | 0146.0 | 0147.0 | 1334.0 | 220.0 | | | QL=4 ST=1 TYP=3 |
| | 2695 | PALE | 4 | S/F | 0146.0 | 0147.0 | 1334.0 | 210.0 | | | QL=4 ST=1 TYP=3 |
| | 4995 | PALE | 4 | S/F | 0146.0 | 0147.0 | 1334.0 | 330.0 | | | QL=4 ST=1 TYP=3 |
| | 8800 | PALE | 4 | S/F | 0146.0 | 0147.0 | 1334.0 | 370.0 | | | QL=4 ST=1 TYP=3 |
| | 2804 | VORO | 29 | PBI | 0155.0 | 0155.0 | 120.0 | 25.8 | | | |
| | 245 | LEAR | 8 | S | 0313.0 | 0313.0 | U | 62.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0414.0 | 0414.0 | U | 60.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 | S | 0507.0 | 0509.0 | 2.0 | 86.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 | S | 0722.0 | 0722.0 | U | 58.0 | | | QL=4 ST=2 TYP=3 |
| | 33 | UPIC | 46 | C | 1040.0 | 1041.0 | 3.0 | | | | |
| | 33 | UPIC | 46 | C | 1056.0 | 1056.2 | 3.0 | | | | |
| | 9500 | CUBA | 23 | GRF | 1430.8 | 1431.1 | 28.2 | 20.0 | 10.0 | | |
| | 2695 | SGMR | 8 | S | 1442.0 | 1442.0 | 1.0 | 45.0 | | | QL=2 ST=2 TYP=3 |
| | 4995 | SGMR | 8 | S | 1442.0 | 1442.0 | 2.0 | 64.0 | | | QL=2 ST=2 TYP=3 |
| | 8800 | SGMR | 8 | S | 1442.0 | 1442.0 | 2.0 | 39.0 | | | QL=2 ST=2 TYP=3 |
| | 2695 | SVTO | 8 | S | 1442.0 | 1442.0 | 1.0 | 60.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SVTO | 8 | S | 1442.0 | 1442.0 | 1.0 | 82.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SVTO | 8 | S | 1442.0 | 1442.0 | U | 44.0 | | | QL=4 ST=2 TYP=3 |
| | 9500 | CUBA | 2 | S/F | 1742.5 | 1745.1 | 5.1 | 18.0 | 9.0 | | |
| | 8800 | SGMR | 4 | S/F | 1743.0 | 1745.0 | 4.0 | 83.0 | | | QL=2 ST=2 TYP=3 |
| | 4995 | PALE | 8 | S | 1744.0 | 1745.0 | 2.0 | 100.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SGMR | 8 | S | 1744.0 | 1745.0 | 1.0 | 33.0 | | | QL=2 ST=2 TYP=3 |
| | 2695 | SGMR | 4 | S/F | 1744.0 | 1745.0 | 3.0 | 26.0 | | | QL=2 ST=2 TYP=3 |
| | 15400 | SGMR | 4 | S/F | 1744.0 | 1745.0 | 3.0 | 39.0 | | | QL=2 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 1745.0 | 1745.0 | 1.0 | 92.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 4 | S/F | 1929.0 | 1930.0 | 9.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 48 | C | 1929.0 | 1932.0 | 9.0 | 210.0 | | | QL=2 ST=2 TYP=8 |
| | 8800 | PALE | 48 | C | 1929.0 | 1930.0 | 13.0 | 210.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | PALE | 48 | C | 1929.0 | 1930.0 | 11.0 | 350.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | SGMR | 48 | C | 1929.0 | 1930.0 | 11.0 | 340.0 | | | QL=2 ST=2 TYP=8 |
| | 2695 | PALE | 4 | S/F | 1930.0 | 1933.0 | 8.0 | 100.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 8 | S | 1930.0 | 1930.0 | U | 29.0 | | | QL=2 ST=2 TYP=3 |
| | 2695 | SGMR | 4 | S/F | 1930.0 | 1933.0 | 6.0 | 79.0 | | | QL=2 ST=2 TYP=3 |
| | 2840 | PEKG | 3 | S | 2334.0 | 2336.5 | 12.0 | 47.5 | | | |
| | 2804 | VORO | 3 | S | 2334.4 | 2336.2 | 4.4 | 42.3 | | | |
| | 2800 | HIRA | 3 | S | 2336.0 | 2337.0 | 4.0 | 40.0 | | | 0 |
| | 4995 | LEAR | 8 | S | 2336.0 | 2336.0 | U | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | LEAR | 8 | S | 2336.0 | 2336.0 | U | 130.0 | | | QL=4 ST=3 TYP=3 |
| | 8800 | LEAR | 8 | S | 2336.0 | 2336.0 | U | 240.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | LEAR | 8 | S | 2336.0 | 2336.0 | U | 240.0 | | | QL=4 ST=3 TYP=3 |
| | 15400 | LEAR | 8 | S | 2336.0 | 2336.0 | U | 80.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | LEAR | 8 | S | 2336.0 | 2336.0 | U | 80.0 | | | QL=4 ST=3 TYP=3 |
| | 4995 | PALE | 8 | S | 2336.0 | 2336.0 | U | 150.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | PALE | 8 | S | 2336.0 | 2336.0 | U | 250.0 | | | QL=4 ST=2 TYP=3 |
| | 15400 | PALE | 8 | S | 2336.0 | 2336.0 | U | 120.0 | | | QL=4 ST=2 TYP=3 |
| 17 | 127 | TORN | 43 | NS | 0715.0 | | 405.0 | | 15.0 | | V=1 |
| | 9100 | GORK | 23 | GRF | 0432.0 | 0715.5 | | 30.0 | | | |
| | 9100 | GORK | 23 | GRF | 0432.0 | 0440.9 | 250.0 | 14.0 | | | |
| | 2840 | PEKG | 20 | GRF | 0438.0 | 0441.3 | 15.0 | 5.0 | | | |
| | 610 | LEAR | 8 | S | 0600.0 | 0600.0 | U | 99.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | LEAR | 48 | C | 0600.0 | 0604.0 | 17.0 | 1000.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | LEAR | 48 | C | 0600.0 | 0603.0 | 17.0 | 1800.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | LEAR | 48 | C | 0600.0 | 0603.0 | 10.0 | 1600.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | LEAR | 48 | C | 0600.0 | 0603.0 | 21.0 | 1900.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | LEAR | 49 | GB | 0600.0 | 0603.0 | 1080.0 | 810.0 | | | QL=4 ST=1 TYP=6 |
| | 4995 | LEAR | 49 | GB | 0600.0 | 0603.0 | 1080.0 | 1600.0 | | | QL=4 ST=1 TYP=6 |
| | 8800 | LEAR | 49 | GB | 0600.0 | 0603.0 | 1080.0 | 1400.0 | | | QL=4 ST=1 TYP=6 |
| | 15400 | LEAR | 49 | GB | 0600.0 | 0600.0 | 1080.0 | 540.0 | | | QL=4 ST=1 TYP=6 |
| | 15400 | LEAR | 49 | GB | 0600.0 | 0603.0 | 1080.0 | 1400.0 | | | QL=4 ST=1 TYP=6 |
| | 9100 | GORK | 48 | C | 0600.0 | 0602.1U | 15.0 | 320.0U | | | |
| | 9100 | GORK | 48 | C | 0600.0 | 0605.4 | | 1300.0 | | | |
| | 2840 | PEKG | 47 | GB | 0600.0 | 0605.8 | 65.0 | 995.6 | | | |
| | 2950 | GORK | 48 | C | 0600.3 | 0602.5 | 26.7 | 310.0 | | | |
| | 2950 | GORK | 48 | C | 0600.3 | 0605.7 | | 1700.0 | | | |
| | 610 | SVTO | 48 | C | 0601.0 | 0602.0 | 5.0 | 220.0 | | | QL=2 ST=2 TYP=8 |
| | 610 | SVTO | 48 | C | 0601.0 | 0602.0 | 5.0 | 220.0 | | | QL=4 ST=2 TYP=8 |
| | 8800 | SVTO | 48 | C | 0601.0 | 0605.0 | 8.0 | 960.0 | | | QL=4 ST=2 TYP=8 |

# SOLAR RADIO EMISSION
## Outstanding Occurrences

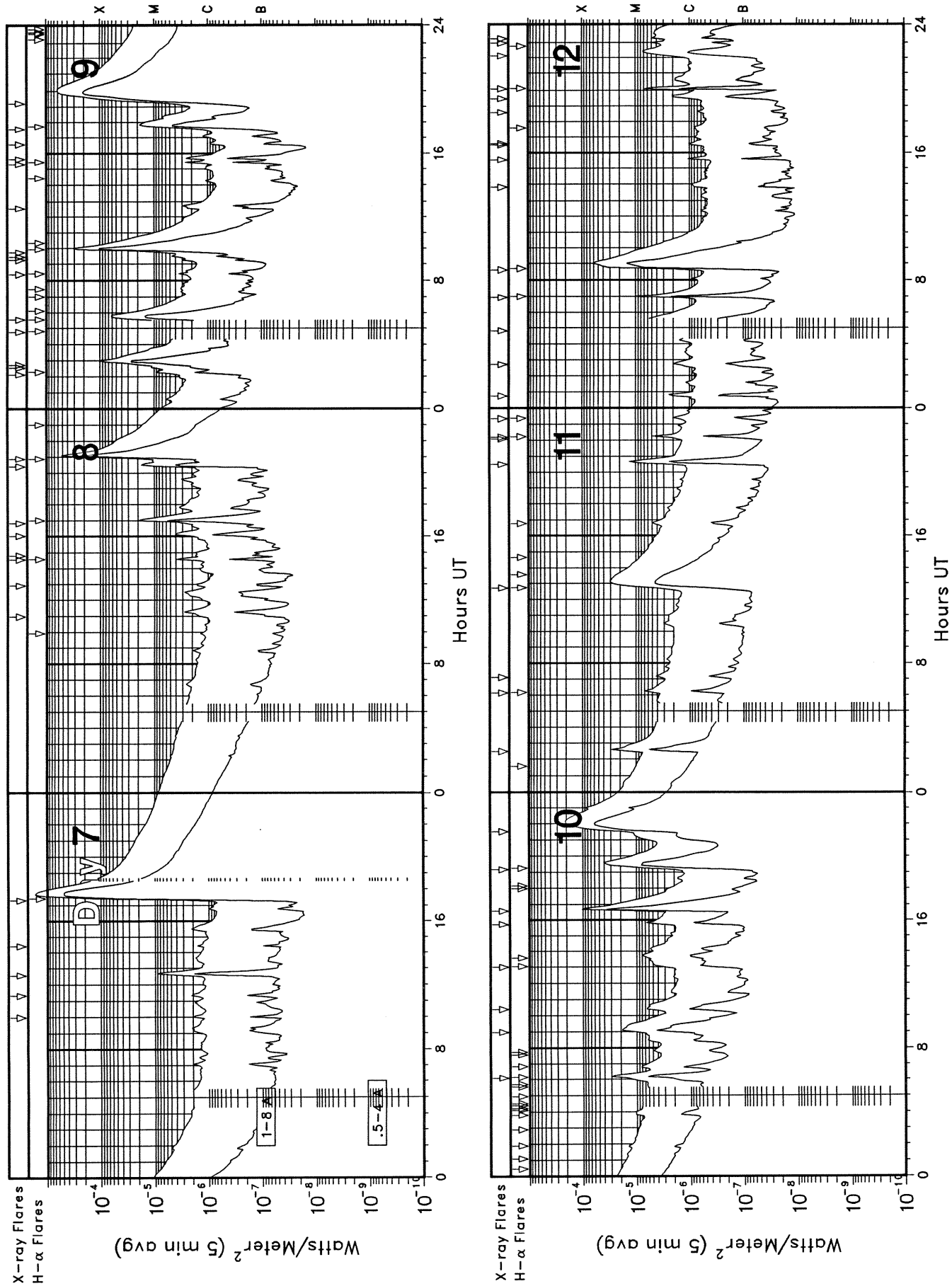
### SEPTEMBER 2005

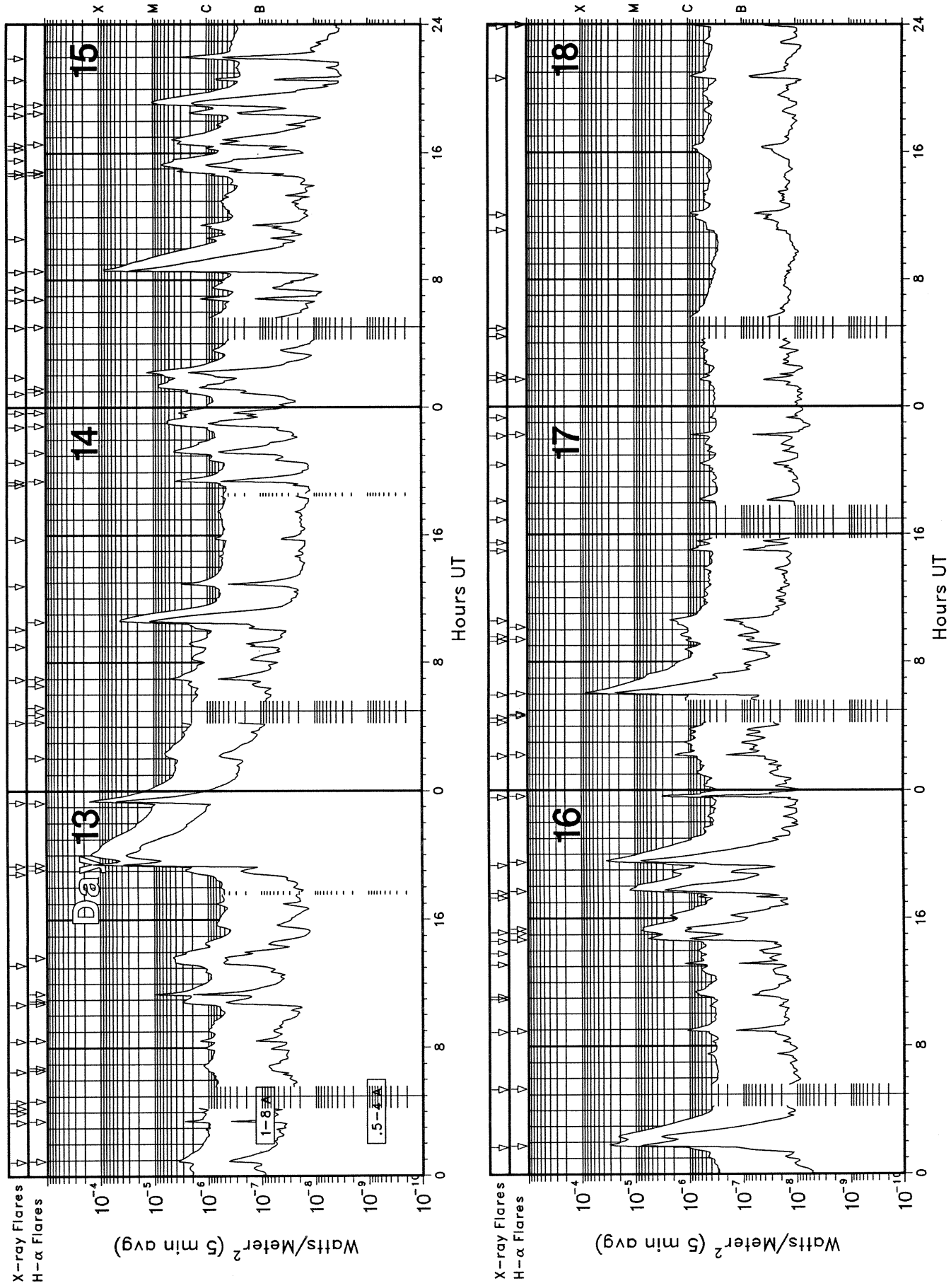
| Day | Freq | Sta | Type | | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 -22 W/m 2 Hz) | Flux Density Mean (10 -22 W/m 2 Hz) | Int | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 2695 | SVTO | 48 | C | 0601.0 | 0605.0 | 16.0 | 1000.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SVTO | 48 | C | 0601.0 | 0605.0 | 15.0 | 1700.0 | | | QL=4 ST=2 TYP=8 |
| | 15400 | SVTO | 48 | C | 0601.0 | 0605.0 | 18.0 | 1400.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SVTO | 48 | C | 0601.0 | 0605.0 | 1079.0 | 1000.0 | | | QL=4 ST=1 TYP=8 |
| | 4995 | SVTO | 48 | C | 0601.0 | 0605.0 | 1079.0 | 1700.0 | | | QL=4 ST=1 TYP=8 |
| | 15400 | SVTO | 48 | C | 0601.0 | 0605.0 | 1079.0 | 1300.0 | | | QL=4 ST=1 TYP=8 |
| | 15400 | SVTO | 48 | C | 0601.0 | 0605.0 | 1079.0 | 1400.0 | | | QL=4 ST=1 TYP=8 |
| | 2695 | SVTO | 49 | GB | 0601.0 | 0605.0 | 1079.0 | 830.0 | | | QL=4 ST=1 TYP=6 |
| | 4995 | SVTO | 49 | GB | 0601.0 | 0605.0 | 1079.0 | 1500.0 | | | QL=4 ST=1 TYP=6 |
| | 8800 | SVTO | 49 | GB | 0601.0 | 0605.0 | 1079.0 | 800.0 | | | QL=4 ST=1 TYP=6 |
| | 610 | SVTO | 4 | S/F | 0601.0 | 0602.0 | 1079.0 | 220.0 | | | QL=4 ST=1 TYP=3 |
| | 900 | GORK | 46 | C | 0601.5 | 0606.1 | | 40.0 | | | |
| | 900 | GORK | 46 | C | 0601.5 | 0607.1 | | 45.0 | | | |
| | 900 | GORK | 46 | C | 0601.5 | 0605.1 | 22.5 | 120.0 | | | |
| | 1415 | SVTO | 4 | S/F | 0602.0 | 0606.0 | 7.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | HIRA | 47 | GB | 0602.0 | 0606.0 | 34.0 | 975.0 | | | 0 |
| | 1415 | SVTO | 4 | S/F | 0602.0 | 0605.0 | 1078.0 | 86.0 | | | QL=4 ST=1 TYP=3 |
| | 1415 | LEAR | 4 | S/F | 0603.0 | 0604.0 | 5.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | LEAR | 4 | S/F | 0603.0 | 0603.0 | 1077.0 | 88.0 | | | QL=4 ST=1 TYP=3 |
| | 9100 | GORK | 29 | PBI | 0615.0 | 0615.0 | 27.0 | 48.0 | | | |
| | 2950 | GORK | 29 | PBI | 0627.0 | 0627.0 | 85.3 | 35.0 | | | |
| | 9100 | GORK | 2 | S/F | 1035.0 | 1035.4 | 1.6 | 12.0 | | | |
| | 410 | SGMR | 8 | S | 2004.0 | 2004.0 | U | 51.0 | | | QL=4 ST=2 TYP=3 |
| 18 | 2840 | PEKG | 3 | S | 0420.0 | 0430.5 | 20.0 | 19.1 | | | |
| | 2950 | GORK | 28 | PRE | 0424.0 | 0427.7 | 3.7 | 11.0 | | | |
| | 245 | LEAR | 8 | S | 0425.0 | 0425.0 | U | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 900 | GORK | 46 | C | 0425.6 | 0429.0 | | 4.5 | | | |
| | 900 | GORK | 46 | C | 0425.6 | 0427.8 | 9.0 | 7.5 | | | |
| | 900 | GORK | 46 | C | 0425.6 | 0430.9 | | 14.0 | | | |
| | 9100 | GORK | 7 | C | 0427.4 | 0430.3 | | 11.0 | | | |
| | 9100 | GORK | 7 | C | 0427.4 | 0427.7 | 5.1 | 7.8 | | | |
| | 2950 | GORK | 4 | S/F | 0429.7 | 0430.6 | 2.8 | 31.0U | | | |
| | 2800 | HIRA | 1 | S | 0430.0 | 0431.0 | 3.0 | 15.0 | | | 0 |
| | 2840 | PEKG | 45 | C | 0450.0 | 0457.9 | 27.0 | 19.1 | | | |
| | 2950 | GORK | 21 | GRF | 0454.4 | 0615.9 | 268.6 | 7.9 | | | |
| | 9100 | GORK | 40 | F | 0454.6 | 0455.0 | 5.3 | 9.3 | | | |
| | 2950 | GORK | 46 | C | 0454.7 | 0458.0 | | 11.0 | | | |
| | 2950 | GORK | 46 | C | 0454.7 | 0456.2 | 5.0 | 7.9 | | | |
| | 2800 | HIRA | 7 | C | 0455.0 | 0458.0 | 6.0 | 15.0 | | | 0 |
| | 900 | GORK | 4 | S/F | 0455.6 | 0458.0 | 6.8 | 6.0 | | | |
| | 9500 | CUBA | 1 | S | 1613.2 | 1614.1 | 3.6 | 19.0 | 10.0 | | |
| | 2840 | PEKG | 1 | S | 2353.0 | 2355.3 | 5.0 | 9.6 | | | |
| | 2804 | VORO | 22 | GRF | 2353.1 | 2355.0 | 27.0 | 7.5 | | | |
| 19 | 127 | TORN | 43 | NS | 0740.0 | | 370.0 | | 4.0 | | V=1 |
| | 2840 | PEKG | 20 | GRF | 0339.0 | 0348.1 | 18.0 | 16.1 | | | |
| | 2800 | HIRA | 3 | S | 0341.0 | 0348.0 | 11.0 | 15.0 | | | 0 |
| | 2804 | VORO | 3 | S | 0341.2 | 0348.2 | 27.0 | 47.1 | | | |
| 20 | 127 | TORN | 43 | NS | 0828.0 | | 298.0 | | 4.0 | | V=0 |
| 21 | 127 | TORN | 43 | NS | 0930.0 | | 210.0 | | 3.0 | | V=0 |
| 22 | 127 | TORN | 45 | C | 1323.0 | 1324.4 | 3.5 | 80.0 | 40.0 | | |
| 24 | 33 | UPIC | 45 | C | 1511.0 | 1514.5 | 4.0 | | | | |


GOES X-RAY DETECTOR
September 2005
Day 1
1
2
3
4
5
6
X-ray Flares
H-α Flares
Watts/Meter² (5 min avg)
Hours UT
.1-.8 A
.5-4 A
X
M
C
B

# GOES X-RAY DETECTOR

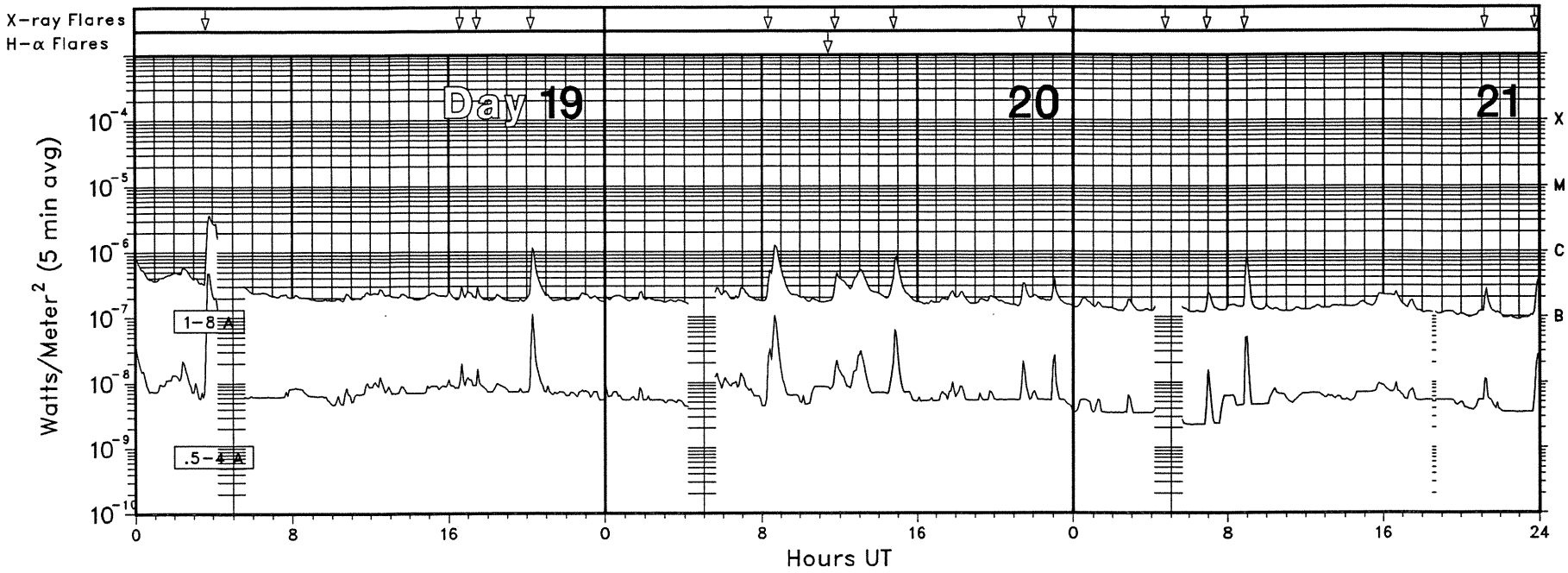
## September 2005

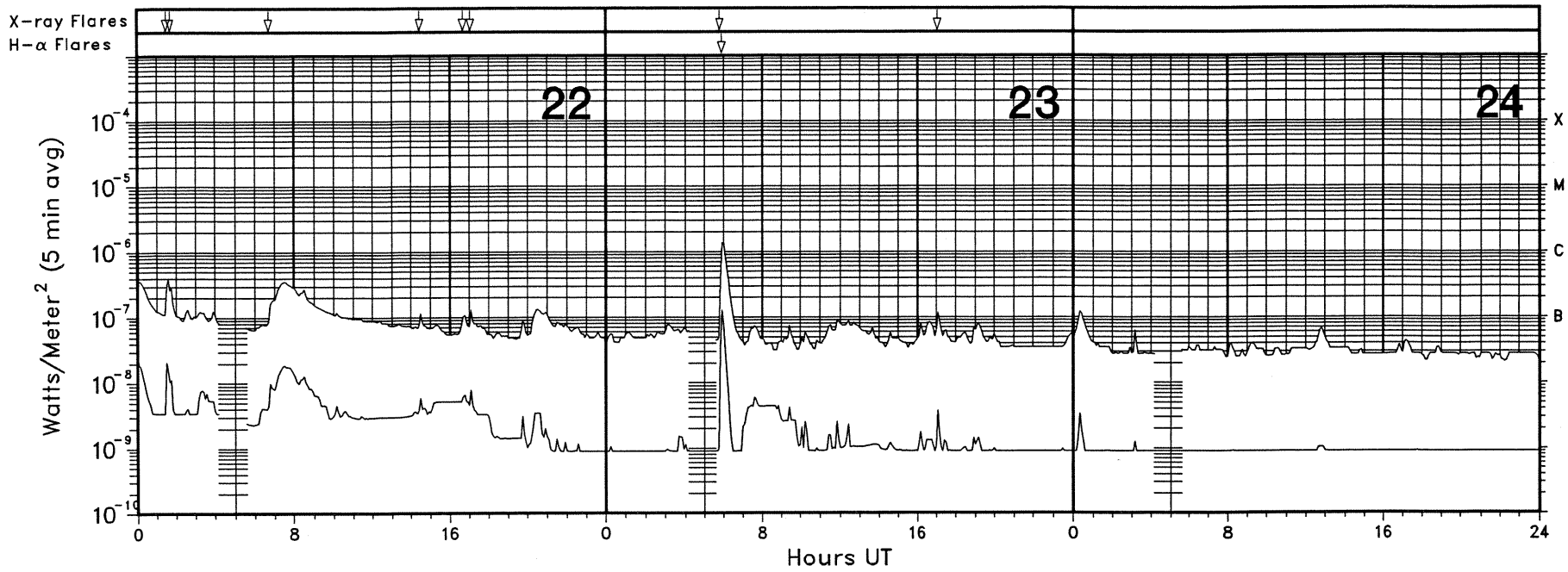



GOES X-RAY DETECTOR
September 2005
X-ray Flares
H-α Flares
Watts/Meter² (5 min avg)
Hours UT
Day
13
14
15
16
17
18
1-8Å
.5-4Å
X
M
C
B

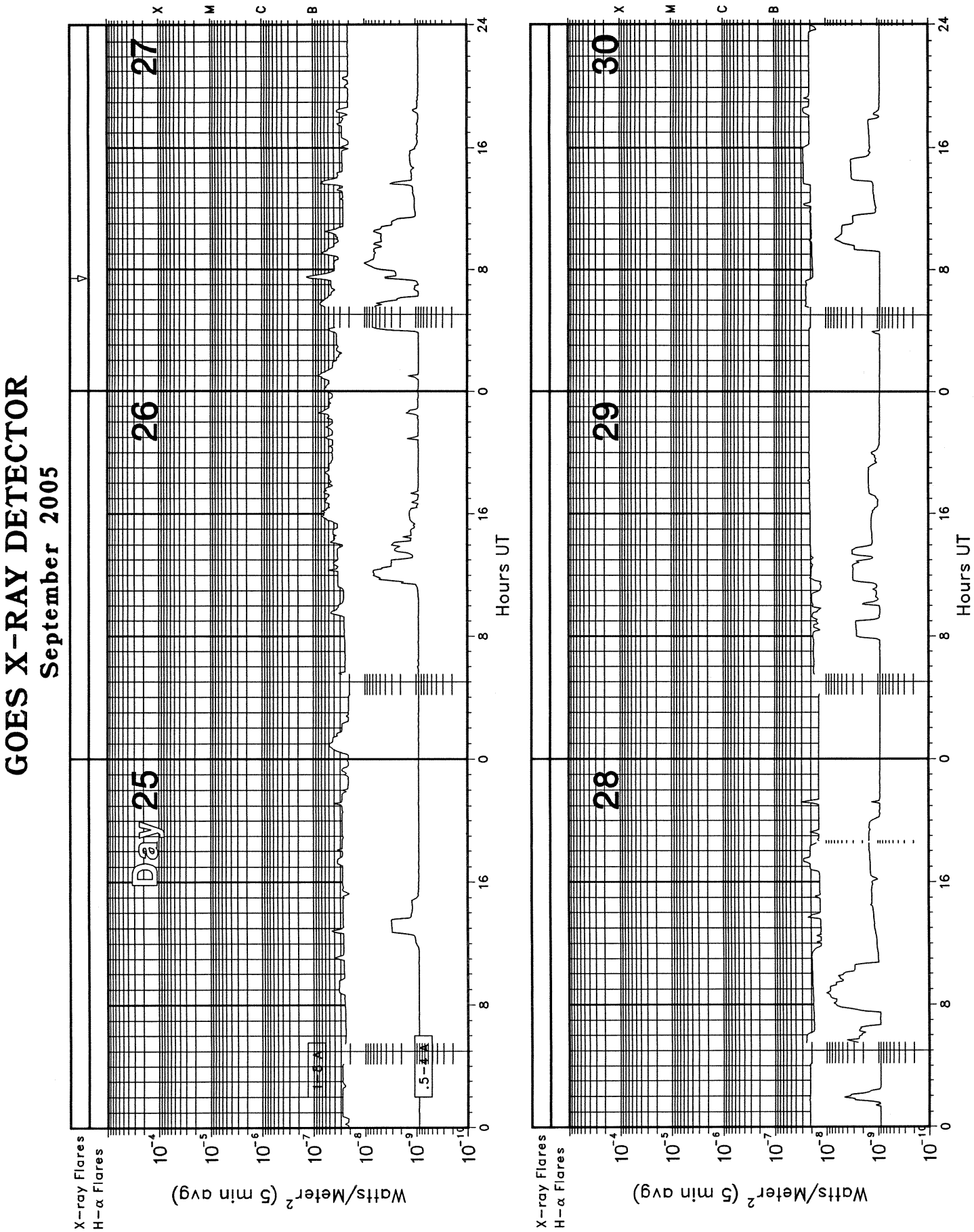
# GOES X-RAY DETECTOR

## September 2005



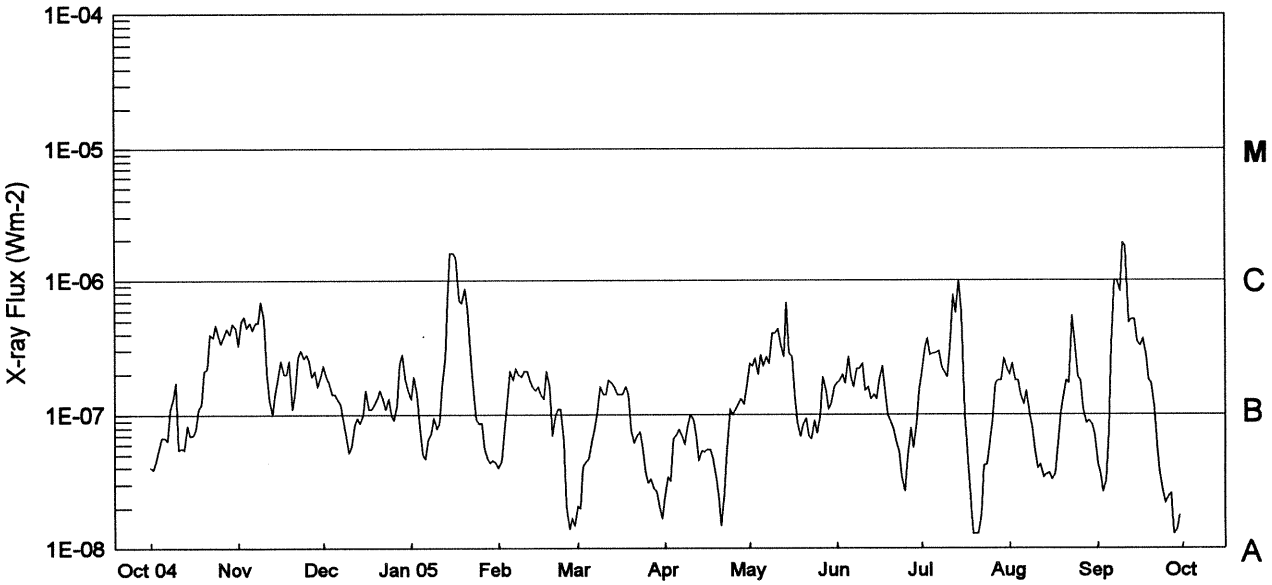




29 Sep 05


GOES X-RAY DETECTOR
September 2005
Day 25
26
27
28
29
30
X-ray Flares
H-α Flares
Watts/Meter² (5 min avg)
Hours UT
.5-4A
1-8A
X
M
C
B

# Preliminary GOES Satellite Daily X-Ray Background
## Oct 2004 - Sep 2005






| Day | Oct 04 | Nov | Dec | Jan 05 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | A4.0 | B3.3 | B2.3 | B1.3 | A4.0 | A2.1 | A2.5 | B2.4 | B1.7 | B2.0 | B2.0 | A4.4 |
| 2 | A3.9 | B5.1 | B1.9 | B1.9 | A4.5 | A2.0 | A3.4 | B2.3 | B1.8 | B3.1 | B2.4 | A3.7 |
| 3 | A4.5 | B5.4 | B1.7 | B1.4 | A7.6 | A4.1 | A3.2 | B2.6 | B2.0 | B3.7 | B1.8 | A2.7 |
| 4 | A5.7 | B4.5 | B1.4 | A8.3 | B1.3 | A4.5 | A6.6 | B2.0 | B1.7 | B2.8 | B1.8 | A3.2 |
| 5 | A6.8 | B4.9 | B1.4 | A5.0 | B2.1 | A4.7 | A7.1 | B2.8 | B2.7 | B2.9 | B1.4 | A7.6 |
| 6 | A6.8 | B4.3 | B1.3 | A4.7 | B1.8 | A6.4 | A7.8 | B2.3 | B1.9 | B2.9 | B1.2 | B3.4 |
| 7 | A6.4 | B4.9 | B1.2 | A6.5 | B2.2 | A7.8 | A6.9 | B2.7 | B1.6 | B3.0 | B1.5 | C1.0 |
| 8 | B1.1 | B4.9 | A9.2 | A7.3 | B2.0 | B1.1 | A6.1 | B2.4 | B2.2 | B2.3 | B1.0 | C1.0 |
| 9 | B1.3 | B7.0 | A6.8 | A9.5 | B1.9 | B1.6 | A8.5 | B4.1 | B2.2 | B2.1 | A8.1 | B8.3 |
| 10 | B1.7 | B5.2 | A5.2 | A7.9 | B2.1 | B1.4 | B1.0 | B4.1 | B2.4 | B1.9 | A5.5 | C1.9 |
| 11 | A5.5 | B2.1 | A5.8 | A8.6 | B2.1 | B1.4 | A9.2 | B4.4 | B1.5 | B3.2 | A4.0 | C1.8 |
| 12 | A5.6 | B1.3 | A8.5 | B1.6 | B1.8 | B1.8 | A6.9 | B3.4 | B1.6 | B7.8 | A4.3 | B4.9 |
| 13 | A5.5 | B1.0 | A9.5 | B2.6 | B1.6 | B1.7 | A4.6 | B2.7 | B1.3 | B5.8 | A3.4 | B5.2 |
| 14 | A8.3 | B1.4 | A8.7 | B7.3 | B1.5 | B1.6 | A5.4 | B6.8 | B1.4 | C1.0 | A3.6 | B5.2 |
| 15 | A7.0 | B1.9 | B1.0 | C1.6 | B1.6 | B1.4 | A5.3 | B2.9 | B1.3 | B5.9 | A3.7 | B3.5 |
| 16 | A7.1 | B2.5 | B1.5 | C1.6 | B1.4 | B1.4 | A5.5 | B2.7 | B1.8 | B1.0 | A3.3 | B3.3 |
| 17 | A7.9 | B2.0 | B1.1 | C1.5 | B1.3 | B1.4 | A5.5 | B1.4 | B2.3 | A5.4 | A3.6 | B3.7 |
| 18 | B1.1 | B2.0 | B1.1 | B7.1 | B2.1 | B1.6 | A4.8 | A8.8 | B1.5 | A2.9 | A6.1 | B2.8 |
| 19 | B1.2 | B2.5 | B1.2 | B6.8 | B1.6 | B1.4 | A3.5 | A6.9 | B1.0 | A1.3 | B1.0 | B1.8 |
| 20 | B2.1 | B1.1 | B1.3 | B8.7 | A7.0 | A7.7 | A2.5 | A8.4 | A8.8 | A1.3 | B1.4 | B1.7 |
| 21 | B2.2 | B1.4 | B1.5 | B6.2 | A9.9 | A6.2 | A1.5 | A9.4 | A7.8 | A1.3 | B1.8 | B1.1 |
| 22 | B4.0 | B2.7 | B1.3 | B3.0 | B1.1 | A6.9 | A2.6 | A6.9 | A6.1 | A1.8 | B1.7 | A5.9 |
| 23 | B3.8 | B3.0 | B1.1 | B1.5 | B1.1 | A7.5 | A5.5 | A6.6 | A5.3 | A4.2 | B5.5 | A3.8 |
| 24 | B4.7 | B2.6 | B1.3 | A9.3 | A6.4 | A5.8 | B1.1 | A9.1 | A3.4 | A4.3 | B3.5 | A2.7 |
| 25 | B3.9 | B2.8 | B1.0 | A8.6 | A2.1 | A3.7 | B1.0 | A7.3 | A2.7 | A6.3 | B1.9 | A2.2 |
| 26 | B3.4 | B2.5 | A9.2 | A8.7 | A1.4 | A3.1 | B1.1 | A9.9 | A4.8 | A8.9 | B1.8 | A2.5 |
| 27 | B3.9 | B1.9 | B1.2 | A5.6 | A1.7 | A3.3 | B1.2 | B1.9 | A8.0 | B1.7 | B1.1 | A2.6 |
| 28 | B4.4 | B2.1 | B2.4 | A4.7 | A1.5 | A2.8 | B1.3 | B1.5 | A5.7 | B1.8 | A8.7 | A1.3 |
| 29 | B4.0 | B1.6 | B2.8 | A4.4 | | A2.7 | B1.2 | B1.1 | A8.6 | B1.8 | A9.1 | A1.4 |
| 30 | B4.8 | B1.9 | B1.8 | A4.6 | | A2.0 | B1.6 | B1.2 | B1.5 | B2.6 | A8.5 | A1.8 |
| 31 | B4.5 | | B1.5 | A4.4 | | A1.7 | | B1.6 | | B2.2 | A7.1 | |

Levels below B1.0 are unreliable.

# ACTIVE PROMINENCES AND FILAMENTS

## SEPTEMBER 2005

| Day | Event Type | Start (UT) | End (UT) | Lat | CMD | CMP Mo Day | Imp | Extent | Blue Shift (.1 A) | Red Shift (.1 A) | Obs Type | Sta | NOAA/ USAF Reg# | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02 | EPL | 0740 | 0930 | N90 | W31 | 08 30.5 | 2 | | 9 | 9 | E | LEAR | | |
| 07 | EPL | 1720E | 1821 | S70 | E08 | 09 8.4 | 3 | | 8 | 9 | E | HOLL | | |
| 07 | LPS | 1810 | 0114 | S88 | E10 | 09 8.7 | 1 | | 9 | 9 | E | HOLL | 0808 | |
| 07 | LPS | 2325E | 1005 | S10 | E90 | 09 14.7 | 1 | | 9 | 9 | E | LEAR | 0808 | |
| 08 | LPS | 0611E | 1113D | S10 | E90 | 09 15.0 | | | 9 | 9 | E | SVTO | 0808 | |
| 08 | APR | 0910 | 0955 | S20 | E90 | 09 15.2 | 1 | 05 | 9 | 9 | V | KHAR | | |
| 08 | APR | 1020 | 1035D | S16 | E90 | 09 15.2 | 1 | 03 | 9 | 9 | V | KHAR | | |
| 08 | LPS | 2240E | 0244 | S14 | E90 | 09 15.7 | | | 9 | 9 | E | LEAR | 0808 | |
| 08 | LPS | 2245 | 0000 | S10 | E78 | 09 14.8 | 1 | | 7 | 9 | E | HOLL | 0808 | Flare Associated |
| 09 | BSD | 0825 | 0835 | S10 | E65 | 09 14.2 | | 10 | 9 | 9 | E | LEAR | 0808 | Flare Associated |
| 09 | LPS | 2245 | 0113 | S10 | E78 | 09 15.8 | | | 7 | 9 | E | HOLL | 0808 | |
| 11 | ADF | 0940 | 1005D | S16 | E48 | 09 15.0 | 1 | 05 | 9 | 9 | V | KHAR | | |
| 11 | ADF | 0945 | 1005D | S03 | E43 | 09 14.7 | 1 | 06 | 9 | 9 | V | KHAR | | |
| 13 | DSD | 1130 | 1205D | S15 | E18 | 09 14.8 | 1 | 03 | 9 | 9 | V | KHAR | | |
| 17 | BSL | 0910E | 1050 | N10 | E90 | 09 24.2 | 1 | 04 | 9 | 9 | V | KHAR | | |
| 19 | DSF | 0022U | 1501U | N50 | W04 | 09 18.7 | 3 | 09 | 0 | 0 | E | HOLL | | |
| 20 | APR | 1128 | 1138 | S12 | W90 | 09 13.7 | 1 | 04 | 9 | 9 | V | KHAR | | |
| 22 | EPL | 2245 | 0020 | N00 | E90 | 09 29.7 | | | 9 | 9 | E | HOLL | | |
| 22 | EPL | 2305 | 0018 | N00 | E90 | 09 29.7 | | | 9 | 9 | E | LEAR | | |
| 26 | EPL | 2329E | 0046 | N42 | W90 | 09 19.6 | 1 | | 4 | 5 | E | LEAR | | |

ADF = Active Dark Filament
AFS = Arch Filament System
APR = Active Prominence
ASR = Active Surge Region
BSD = Bright Surge on Disk
BSL = Bright Surge on Limb
CAP = CAP Prominence (Tandberg-Hanssen)
CRN = Coronal Rain
DSD = Dark Surge on Disk
DSF = Disappearing Solar Filament
EPL = Eruptive Prominence on Limb
LPS = Loops
MDP = Mound Prominence
SDF/DSF = Sudden Disappearing Filament
SPY = Spray
SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

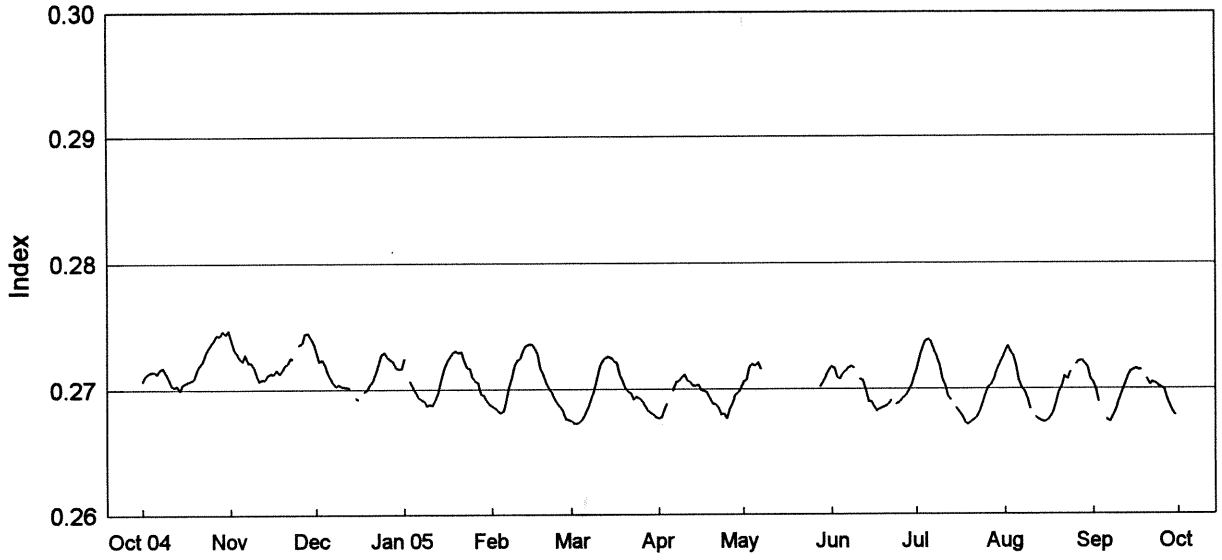
The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

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

ABST = Abastumani
ATHN = Athens
BUCA = Bucharest
CATA = Catania
HOLL = Holloman
KHAR = Kharkov
LEAR = Learmonth
PALE = Palehua
RAMY = Ramey
SVTO = San Vito
VORO = Voroshilov
VALA = Valasske Mezirici
WROC = Wroclaw

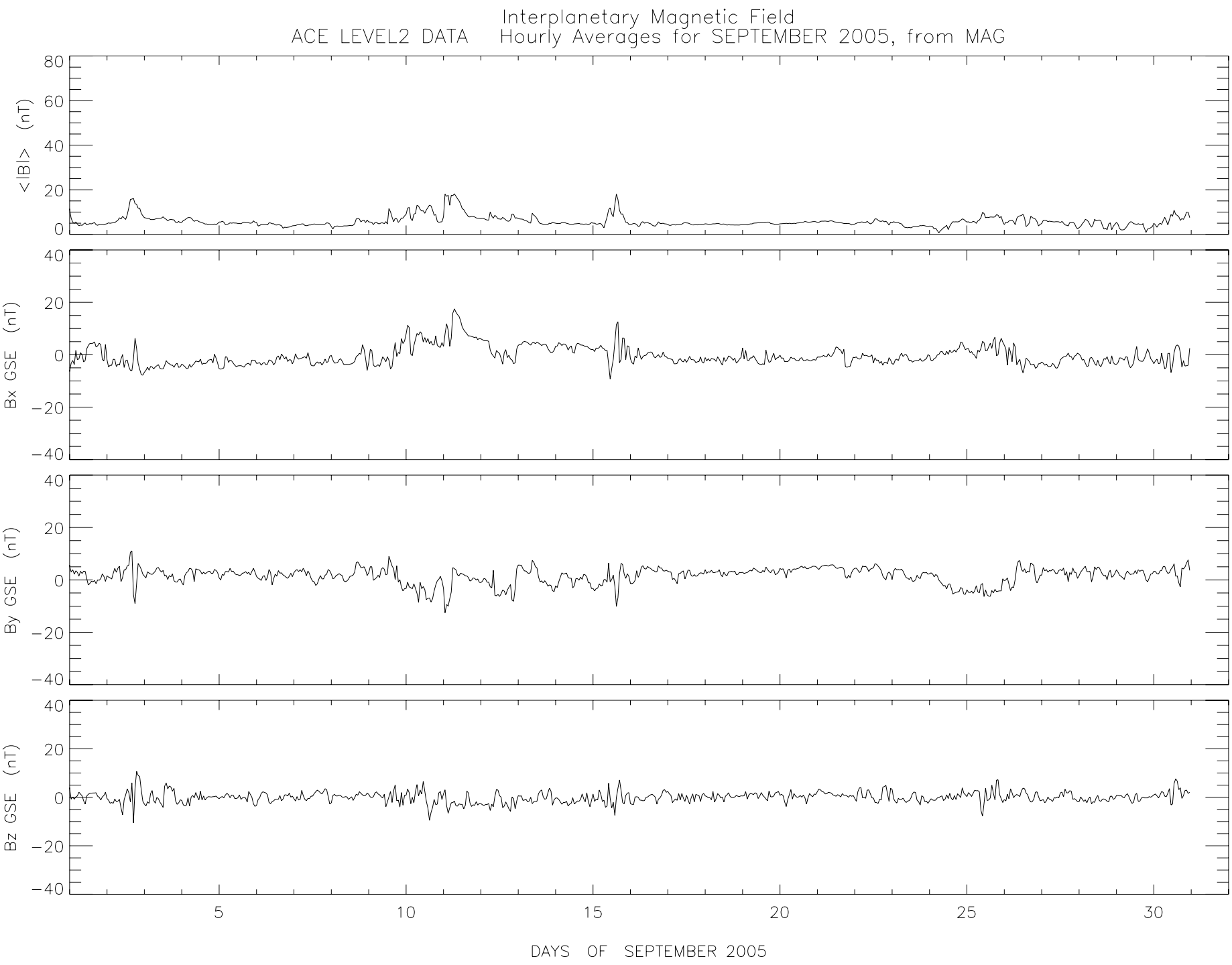
NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

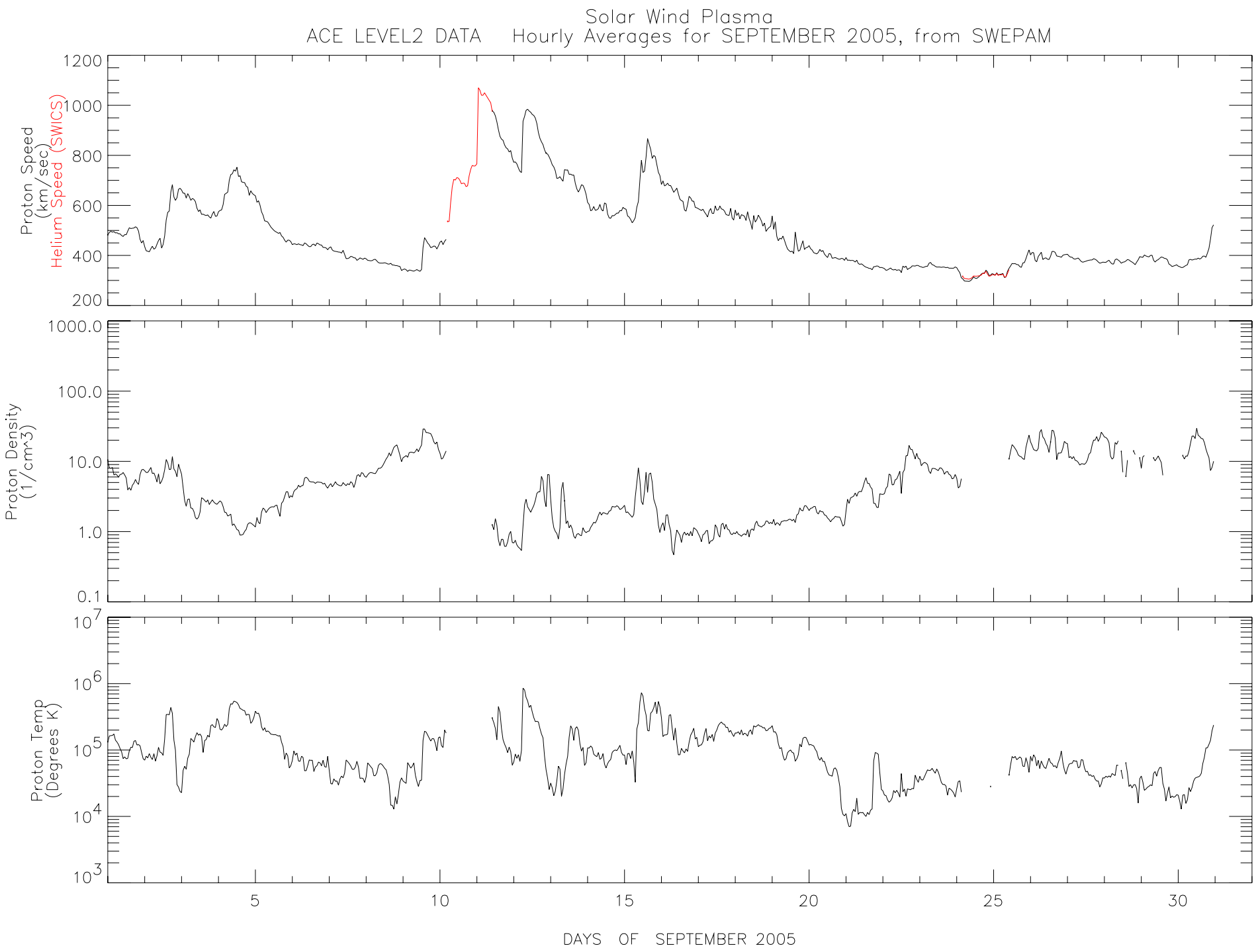
# NOAA Solar Ultraviolet (UV) MgII Core-to-Wing Index
## Oct 2004 - Sep 2005
### Version 9.1

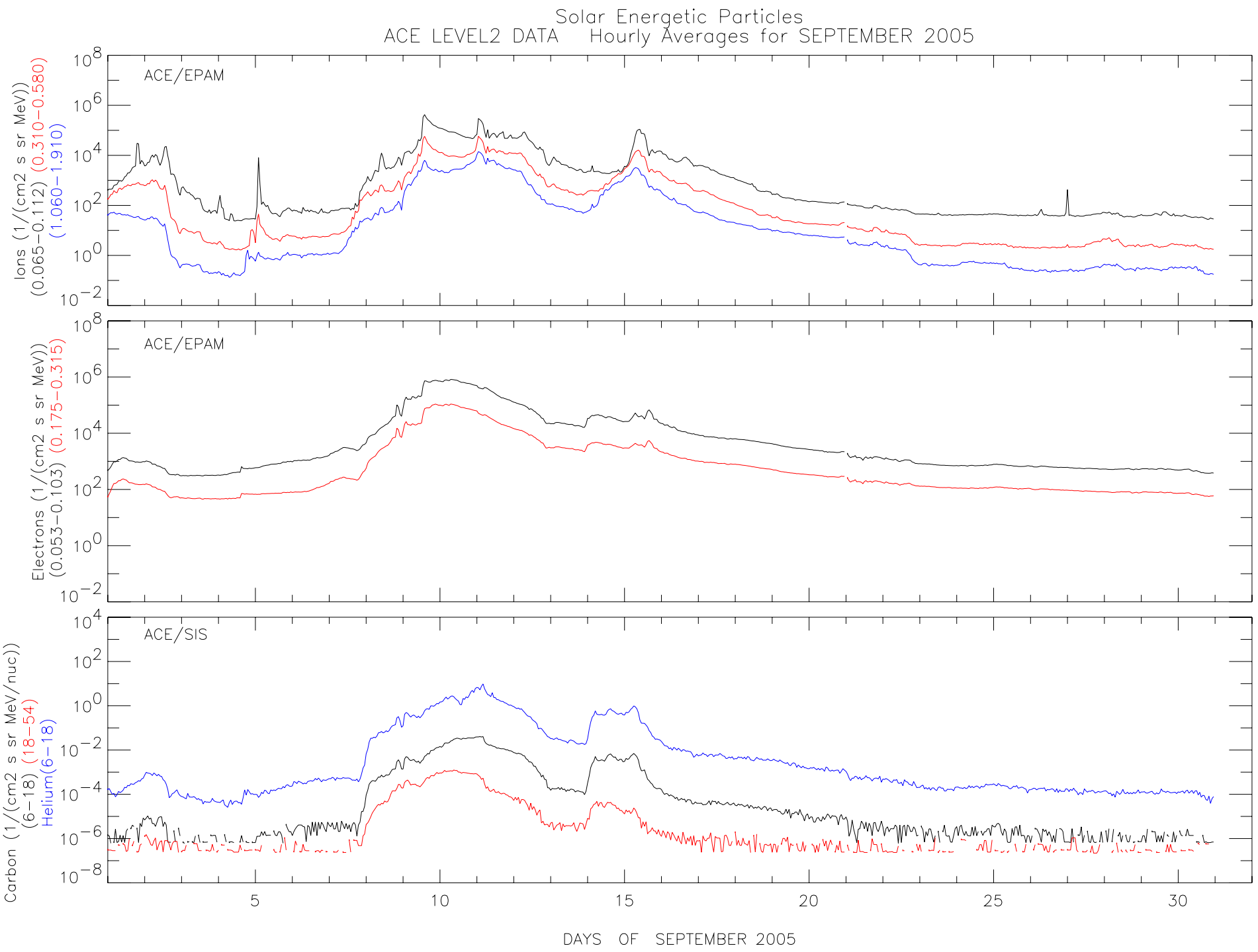



| Day | Oct 04 | Nov | Dec | Jan 05 | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.2707 | 0.2739 | 0.2729 | 0.2724 | 0.2687 | 0.2675 | 0.2677 | 0.2706 | 0.2718 | 0.2715 | 0.2729 | 0.2704 |
| 2 | 0.2711 | 0.2731 | 0.2723 | --- | 0.2685 | 0.2673 | 0.2678 | 0.2707 | 0.2716 | 0.2726 | 0.2733 | 0.2699 |
| 3 | 0.2713 | 0.2729 | 0.2724 | 0.2707 | 0.2683 | 0.2673 | 0.2685 | 0.2718 | 0.2710 | 0.2732 | 0.2729 | 0.2689 |
| 4 | 0.2715 | 0.2725 | 0.2720 | 0.2702 | 0.2682 | 0.2674 | 0.2689 | 0.2720 | 0.2708 | 0.2738 | 0.2725 | --- |
| 5 | 0.2714 | 0.2722 | 0.2714 | 0.2697 | 0.2683 | 0.2677 | --- | 0.2719 | 0.2712 | 0.2739 | 0.2717 | --- |
| 6 | 0.2712 | 0.2728 | 0.2709 | 0.2694 | 0.2691 | 0.2681 | 0.2699 | 0.2721 | 0.2715 | 0.2737 | 0.2706 | 0.2676 |
| 7 | 0.2717 | 0.2721 | 0.2705 | 0.2693 | 0.2701 | 0.2687 | 0.2706 | 0.2715 | 0.2717 | 0.2730 | 0.2700 | 0.2674 |
| 8 | 0.2718 | 0.2721 | 0.2702 | 0.2691 | 0.2709 | 0.2693 | 0.2706 | --- | 0.2718 | 0.2726 | 0.2698 | 0.2678 |
| 9 | 0.2713 | 0.2717 | 0.2704 | 0.2687 | 0.2719 | 0.2698 | 0.2709 | --- | 0.2716 | 0.2718 | 0.2691 | 0.2684 |
| 10 | 0.2709 | 0.2712 | 0.2702 | 0.2689 | 0.2724 | 0.2708 | 0.2712 | --- | --- | 0.2708 | 0.2684 | 0.2690 |
| 11 | 0.2704 | 0.2707 | 0.2702 | 0.2687 | 0.2725 | 0.2718 | 0.2708 | --- | 0.2708 | 0.2702 | --- | 0.2697 |
| 12 | 0.2702 | 0.2708 | 0.2702 | 0.2692 | 0.2732 | 0.2722 | 0.2706 | --- | 0.2707 | 0.2694 | 0.2678 | 0.2702 |
| 13 | 0.2703 | 0.2708 | 0.2701 | 0.2698 | 0.2734 | 0.2725 | 0.2703 | --- | 0.2699 | 0.2691 | 0.2676 | 0.2709 |
| 14 | 0.2700 | 0.2712 | --- | 0.2707 | 0.2736 | 0.2726 | 0.2703 | --- | 0.2690 | --- | 0.2675 | 0.2714 |
| 15 | 0.2705 | 0.2713 | 0.2693 | 0.2716 | 0.2736 | 0.2725 | 0.2703 | --- | 0.2690 | 0.2685 | 0.2674 | 0.2715 |
| 16 | 0.2706 | 0.2712 | 0.2692 | 0.2722 | 0.2732 | 0.2723 | 0.2700 | --- | 0.2686 | 0.2681 | 0.2675 | 0.2716 |
| 17 | 0.2707 | 0.2715 | --- | 0.2726 | 0.2728 | 0.2721 | 0.2699 | --- | 0.2683 | 0.2679 | 0.2678 | 0.2715 |
| 18 | 0.2708 | 0.2712 | 0.2698 | 0.2728 | 0.2717 | 0.2712 | 0.2697 | --- | 0.2685 | 0.2674 | 0.2681 | 0.2715 |
| 19 | 0.2709 | 0.2716 | 0.2700 | 0.2731 | 0.2712 | 0.2708 | 0.2692 | --- | 0.2685 | 0.2672 | 0.2689 | --- |
| 20 | 0.2715 | 0.2719 | 0.2704 | 0.2729 | 0.2706 | 0.2701 | 0.2689 | --- | 0.2687 | 0.2674 | 0.2697 | 0.2708 |
| 21 | 0.2719 | 0.2721 | 0.2707 | 0.2729 | 0.2701 | 0.2699 | 0.2689 | --- | 0.2688 | 0.2676 | 0.2702 | 0.2703 |
| 22 | 0.2722 | 0.2725 | 0.2714 | 0.2723 | 0.2698 | 0.2697 | 0.2685 | --- | 0.2691 | 0.2677 | 0.2710 | 0.2705 |
| 23 | 0.2727 | 0.2724 | 0.2720 | 0.2718 | 0.2693 | 0.2692 | 0.2680 | --- | --- | 0.2682 | 0.2707 | 0.2704 |
| 24 | 0.2732 | --- | 0.2727 | 0.2716 | 0.2689 | 0.2694 | 0.2681 | --- | 0.2688 | 0.2688 | 0.2714 | 0.2702 |
| 25 | 0.2736 | 0.2735 | 0.2729 | 0.2710 | 0.2686 | 0.2693 | 0.2677 | --- | 0.2690 | 0.2694 | --- | 0.2701 |
| 26 | 0.2739 | 0.2737 | 0.2726 | 0.2707 | 0.2684 | 0.2690 | 0.2685 | --- | 0.2692 | 0.2701 | 0.2720 | 0.2699 |
| 27 | 0.2743 | 0.2744 | 0.2724 | 0.2705 | 0.2677 | 0.2687 | 0.2689 | --- | 0.2694 | 0.2702 | 0.2722 | 0.2692 |
| 28 | 0.2743 | 0.2745 | 0.2723 | 0.2697 | 0.2676 | 0.2684 | 0.2695 | 0.2702 | 0.2698 | 0.2707 | 0.2723 | 0.2686 |
| 29 | 0.2746 | 0.2741 | 0.2717 | 0.2695 | | 0.2682 | 0.2697 | 0.2706 | 0.2702 | 0.2714 | 0.2720 | 0.2682 |
| 30 | 0.2744 | 0.2736 | 0.2716 | 0.2691 | | 0.2680 | 0.2700 | 0.2710 | 0.2709 | 0.2720 | 0.2717 | 0.2679 |
| 31 | 0.2747 | | 0.2716 | 0.2689 | | 0.2678 | | 0.2715 | | 0.2724 | 0.2708 | |
| Mean | 0.2719 | 0.2723 | 0.2723 | 0.2707 | 0.2707 | 0.2697 | 0.2694 | 0.2712 | 0.2700 | 0.2703 | 0.2703 | 0.2698 |

Data at: http://www.sec.noaa.gov/ftpmenu/sbuv.html


Interplanetary Magnetic Field
ACE LEVEL2 DATA Hourly Averages for SEPTEMBER 2005, from MAG
<|B|> (nT)
Bx GSE (nT)
By GSE (nT)
Bz GSE (nT)
80
60
40
20
0
40
20
0
−20
−40
5
10
15
20
25
30
DAYS OF SEPTEMBER 2005


Solar Wind Plasma
ACE LEVEL2 DATA Hourly Averages for SEPTEMBER 2005, from SWEPAM
Proton Speed (km/sec)
Helium Speed (SWICS)
1200
1000
800
600
400
200
Proton Density (1/cm^3)
1000.0
100.0
10.0
1.0
0.1
Proton Temp (Degrees K)
10^7
10^6
10^5
10^4
10^3
5
10
15
20
25
30
DAYS OF SEPTEMBER 2005


Solar Energetic Particles
ACE LEVEL2 DATA Hourly Averages for SEPTEMBER 2005
ACE/EPAM
Ions (1/(cm2 s sr MeV))
(0.065–0.112) (0.310–0.580)
(1.060–1.910)
ACE/EPAM
Electrons (1/(cm2 s sr MeV))
(0.053–0.103) (0.175–0.315)
ACE/SIS
Carbon (1/(cm2 s sr MeV/nuc))
(6–18) (18–54)
Helium(6–18)
DAYS OF SEPTEMBER 2005

# SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

## http://cdaw.gsfc.nasa.gov/

### Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA

### SEPTEMBER 2005

| First C2 Appearance | | Central Position | Width Angular | Linear Fit | ----2nd order speed----- | | | Accel | Measurement Position | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Time UT | Angle degree | Width degree | Speed km/s | Initial km/s | Final km/s | 20R km/s | m/s$^2$ | Angle degree | |
| 2005/09/01 | 00:54:05 | 139 | 97 | 603 | 632 | 575 | 551 | -4.1* | 139 | |
| 2005/09/01 | 02:54:05 | 168 | 72 | 322 | 370 | 271 | 189 | -4.1* | 171 | |
| 2005/09/01 | 04:54:05 | 64 | 32 | 555 | 575 | 535 | 238 | -11.4* | 66 | Only C2 |
| 2005/09/01 | 11:30:05 | 239 | 235 | 679 | 695 | 663 | 660 | -2.1* | 270 | Uncertain Width; Partial Halo |
| 2005/09/01 | 11:54:05 | 250 | 64 | 329 | 190 | 484 | 452 | 7.0 | 243 | |
| 2005/09/01 | 15:30:05 | 122 | 11 | 164 | ---- | ---- | ---- | ------ | 119 | 2 points;Only C2 |
| 2005/09/01 | 19:54:05 | 249 | 71 | 306 | 247 | 367 | 502 | 7.9* | 246 | |
| 2005/09/01 | 23:54:05 | 111 | 89 | 521 | 606 | 444 | 0 | -75.0* | 126 | 3 points;Only C2 |
| 2005/09/02 | 00:30:05 | Halo | 360 | 1384 | 1590 | 1165 | 1103 | -66.5* | 62 | |
| 2005/09/02 | 02:30:05 | 264 | 30 | 508 | 588 | 421 | 399 | -7.8* | 251 | |
| 2005/09/02 | 11:54:05 | 275 | 40 | 564 | 262 | 923 | 834 | 25.9 | 279 | |
| 2005/09/02 | 12:30:06 | 22 | 44 | 300 | 206 | 393 | 868 | 29.4* | 20 | |
| 2005/09/02 | 17:30:05 | 129 | 34 | 501 | 561 | 440 | 186 | -11.8 | 126 | |
| 2005/09/02 | 20:54:06 | 130 | 51 | 725 | 630 | 822 | 908 | 18.7* | 127 | |
| 2005/09/03 | 03:12:05 | Halo | 360 | 1672 | 1363 | 2004 | 1892 | 71.8 | 138 | |
| 2005/09/03 | 12:12:06 | 101 | 28 | 382 | 320 | 455 | 457 | 4.5 | 102 | |
| 2005/09/03 | 20:48:05 | 78 | 6 | 541 | ---- | ---- | ---- | ------ | 79 | |
| 2005/09/04 | 09:48:05 | 79 | 37 | 309 | 265 | 354 | 1031 | 40.6* | 71 | Only C2 |
| 2005/09/04 | 12:24:05 | 61 | 21 | 695 | 445 | 961 | 1023 | 34.8 | 59 | |
| 2005/09/04 | 14:48:05 | 57 | 35 | 394 | 340 | 456 | 505 | 5.7 | 58 | |
| 2005/09/04 | 14:48:05 | 286 | 86 | 1179 | 988 | 1391 | 1341 | 33.7 | 298 | |
| 2005/09/04 | 22:36:05 | 76 | 26 | 975 | 982 | 968 | 955 | -2.2* | 80 | |
| 2005/09/04 | 23:36:05 | 289 | 12 | 607 | 430 | 795 | 734 | 14.5 | 287 | |
| 2005/09/05 | 05:00:06 | 291 | 8 | 417 | 449 | 384 | 327 | -4.0 | 290 | |
| 2005/09/05 | 09:48:05 | Halo | 360 | 2326 | 2242 | 2412 | 2369 | 25.0 | 107 | |
| 2005/09/06 | 03:12:05 | 297 | 27 | 316 | 355 | 274 | 0 | -6.0* | 295 | |
| 2005/09/06 | 08:12:05 | 108 | 62 | 812 | 957 | 660 | 394 | -31.9* | 115 | |
| 2005/09/06 | 20:00:07 | 94 | 126 | 1291 | 934 | 1682 | 1568 | 65.1 | 127 | Partial Halo |
| 2005/09/06 | 21:12:10 | 289 | 55 | 511 | 178 | 915 | 780 | 23.6 | 295 | |
| 2005/09/07 | 01:00:06 | 247 | 75 | 174 | 116 | 239 | 321 | 3.7 | 229 | |
| 2005/09/07 | 05:48:06 | 85 | 74 | 195 | 0 | 358 | 632 | 16.5* | 85 | |
| 2005/09/09 | 19:48:05 | Halo | 360 | 2257 | 2693 | 1810 | 2054 | -128.6 | 115 | |
| 2005/09/10 | 07:01:23 | 149 | 35 | 747 | 859 | 632 | 439 | -22.4* | 154 | |
| 2005/09/10 | 21:52:07 | Halo | 360 | 1893 | 2468 | 1354 | 1507 | -171.7 | 120 | |
| 2005/09/11 | 13:00:53 | Halo | 360 | 1922 | 1930 | 1913 | 1917 | -2.0 | 125 | |
| 2005/09/11 | 20:57:33 | 142 | 21 | 776 | 886 | 665 | 580 | -18.7 | 147 | |
| 2005/09/12 | 09:12:05 | 144 | 22 | 511 | 637 | 375 | 0 | -28.3 | 135 | |
| 2005/09/12 | 10:36:05 | 29 | 19 | 154 | 163 | 143 | 98 | -0.7* | 23 | |
| 2005/09/13 | 13:24:05 | 36 | 40 | 229 | 233 | 224 | 213 | -0.4 | 43 | |
| 2005/09/13 | 20:00:05 | Halo | 360 | 1866 | 1820 | 1915 | 1889 | 11.5 | 149 | |
| 2005/09/14 | 14:48:05 | 36 | 7 | 373 | 577 | 195 | 0 | -71.1* | 38 | |
| 2005/09/15 | 03:00:06 | 200 | 18 | 424 | 502 | 341 | 0 | -12.4* | 193 | |

# SOLAR CORONAL MASS EJECTIONS (CMEs) FROM SOHO/LASCO

## http://cdaw.gsfc.nasa.gov/

### Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA

SEPTEMBER 2005

| First C2 Appearance | | Central Position | Width Angular | Linear Fit | ----2nd order speed----- | | | Accel | Measurement Position | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| Date | Time UT | Angle degree | Width degree | Speed km/s | Initial km/s | Final km/s | 20R km/s | m/s$^2$ | Angle degree | |
| 2005/09/16 | 06:48:05 | 39 | 5 | 470 | 470 | 470 | 470 | -0.0* | 41 | Only C2 |
| 2005/09/16 | 09:24:05 | 211 | 4 | 370 | 345 | 398 | 425 | 2.6* | 216 | |
| 2005/09/16 | 14:48:05 | 105 | 69 | 274 | 170 | 374 | 1292 | 67.1* | 106 | Only C2 |
| 2005/09/17 | 14:48:05 | 104 | 59 | 262 | 313 | 213 | 0 | -27.8* | 106 | Only C2 |
| 2005/09/17 | 17:24:05 | 340 | 5 | 469 | 440 | 498 | 1078 | 40.3* | 339 | 3 points;Only C2 |
| 2005/09/18 | 05:00:05 | 83 | 23 | 275 | 264 | 286 | 508 | 7.7* | 80 | Only C2 |
| 2005/09/18 | 10:12:05 | 114 | 70 | 178 | 138 | 225 | 336 | 3.8* | 115 | |
| 2005/09/18 | 21:36:05 | 300 | 33 | 157 | 113 | 200 | 774 | 23.9* | 304 | Only C2 |
| 2005/09/19 | 15:12:05 | 131 | 39 | 358 | 280 | 435 | 770 | 21.2 | 126 | Only C2 |
| 2005/09/19 | 22:24:05 | 99 | 8 | 328 | 430 | 237 | 0 | -67.1* | 97 | 3 points;Only C2 |
| 2005/09/20 | 00:24:05 | 105 | 8 | 517 | 421 | 614 | 919 | 27.8* | 101 | |
| 2005/09/20 | 19:12:05 | 103 | 20 | 696 | 466 | 950 | 1000 | 32.8 | 98 | |
| 2005/09/21 | 19:12:06 | 98 | 88 | 164 | 95 | 240 | 286 | 3.0 | 92 | |
| 2005/09/22 | 18:24:06 | 80 | 39 | 424 | ---- | ---- | ---- | ------ | 88 | Only C2 |
| 2005/09/22 | 19:48:06 | 83 | 43 | 608 | 754 | 446 | 264 | -20.8* | 92 | |
| 2005/09/23 | 00:24:07 | 84 | 52 | 684 | 556 | 816 | 806 | 14.2 | 96 | |
| 2005/09/23 | 03:12:05 | 141 | 3 | 454 | ---- | ---- | ---- | ------ | 138 | 3 points;Only C2 |
| 2005/09/23 | 13:36:05 | 203 | 85 | 187 | ---- | ---- | ---- | ------ | 219 | |
| 2005/09/23 | 22:23:22 | 116 | 15 | 288 | 239 | 334 | 494 | 8.1* | 110 | Only 3 points |
| 2005/09/24 | 15:30:19 | 58 | 27 | 479 | 391 | 574 | 677 | 12.5 | 64 | |
| 2005/09/24 | 16:54:34 | 32 | 86 | 359 | 359 | 359 | 359 | -0.0 | 44 | |
| 2005/09/25 | 02:30:05 | 83 | 19 | 426 | 368 | 477 | 491 | 4.5 | 88 | |
| 2005/09/25 | 16:30:05 | 49 | 4 | 527 | ---- | ---- | ---- | ------ | 53 | 2 points;Only C2 |
| 2005/09/26 | 17:30:05 | 266 | 5 | 507 | ---- | ---- | ---- | ------ | 266 | 2 points;Only C2 |
| 2005/09/26 | 19:31:45 | 266 | 13 | 231 | ---- | ---- | ---- | ------ | 266 | 2 points;Only C2 |
| 2005/09/27 | 05:54:06 | 53 | 24 | 53 | 39 | 67 | 130 | 0.6* | 56 | |
| 2005/09/27 | 20:30:05 | 99 | 20 | 161 | ---- | ---- | ---- | ------ | 95 | Only 3 points |
| 2005/09/28 | 01:54:05 | 288 | 147 | 753 | 780 | 722 | 740 | -2.5 | 323 | Partial Halo |
| 2005/09/28 | 06:54:05 | 262 | 32 | 136 | 53 | 216 | 436 | 7.7* | 265 | |
| 2005/09/28 | 11:30:19 | 51 | 14 | 332 | 198 | 486 | 602 | 14.0* | 60 | |
| 2005/09/28 | 11:30:19 | 258 | 36 | 177 | 303 | 0 | 0 | -13.7* | 264 | |
| 2005/09/28 | 17:50:38 | 250 | 37 | 476 | 598 | 357 | 0 | -24.8* | 258 | |
| 2005/09/28 | 19:43:37 | 318 | 24 | 387 | 314 | 461 | 776 | 22.3 | 319 | Only C2 |
| 2005/09/29 | 05:30:05 | 55 | 8 | 249 | 201 | 299 | 380 | 4.4 | 63 | |
| 2005/09/29 | 08:30:05 | 117 | 16 | 318 | 433 | 199 | 0 | -31.1* | 109 | |
| 2005/09/30 | 15:06:05 | 57 | 14 | 919 | 483 | 1398 | 3171 | 423.4* | 63 | Only 3 points |

CME heights are measured at the fastest segment of the leading edge
PA= Postion Angle measured from Solar North in degrees (Counter clockwise)
ONLINE -- Click on date to view java script movies
ONLINE -- Click on time to see height-time digital files
ONLINE -- Click on speed to view height-time plot
Numbers in 2nd order fit columns correspond to the speed at the last height of measurement and at a distance of 20 solar radii.