# S U N S P O T  G R O U P S
## (Ordered by Central Meridian Passage Date)
## APRIL  2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10585A | | VORO | 04 | 06 | 2238 | S09 | W58 | 04 | 2.6 | | | AXX | 4 | 1 | | 3 |
| 10585A | | LEAR | 04 | 07 | 0030 | S08 | W58 | 04 | 2.7 | | B | BXO | 20 | 2 | 3 | 2 |
| 10585A | | KAND | 04 | 07 | 0740 | S10 | W64 | 04 | 2.5 | | | BXO | | 3 | 3 | 4 |
| 10585A | | HOLL | 04 | 07 | 1416 | S09 | W67 | 04 | 2.6 | | B | BXO | 20 | 2 | 4 | 3 |
| 10585A | 32054 | MWIL | 04 | 07 | 1430 | S09 | W65 | 04 | 2.7 | 4 | (B ) | | | | | |
| 10587 | | HOLL | 03 | 28 | 1527 | S13 | E77 | 04 | 3.4 | | B | DAI | 110 | 4 | 8 | 3 |
| 10587 | 32048 | MWIL | 03 | 28 | 1530 | S14 | E78 | 04 | 3.5 | 3 | (AP) | | | | | |
| 10587 | | VORO | 03 | 29 | 0005 | S13 | E73 | 04 | 3.5 | | | HAX | 89 | 2 | | 2 |
| 10587 | | LEAR | 03 | 29 | 0016 | S12 | E75 | 04 | 3.7 | | B | CAO | 90 | 11 | 7 | 4 |
| 10587 | | KAND | 03 | 29 | 1030 | S16 | E69 | 04 | 3.7 | | | AX | | 7 | 4 | 3 |
| 10587 | | KAND | 03 | 29 | 1030 | S16 | E69 | 04 | 3.7 | | | AX | | 7 | 4 | 3 |
| 10587 | | HOLL | 03 | 29 | 1500 | S12 | E68 | 04 | 3.7 | | B | DAI | 70 | 24 | 14 | 4 |
| 10587 | 32048 | MWIL | 03 | 29 | 1530 | S14 | E67 | 04 | 3.7 | 5 | (B ) | | | | | |
| 10587 | | LEAR | 03 | 30 | 0158 | S13 | E60 | 04 | 3.6 | | B | DSO | 120 | 11 | 9 | 3 |
| 10587 | | TACH | 03 | 30 | 0607 | S15 | E58 | 04 | 3.6 | | | BRI | 61 | 8 | 7 | 3 |
| 10587 | | KAND | 03 | 30 | 1210 | S15 | E55 | 04 | 3.7 | | | DAO | | 10 | 10 | 2 |
| 10587 | | KAND | 03 | 30 | 1210 | S15 | E55 | 04 | 3.7 | | | DAO | | 10 | 10 | 2 |
| 10587 | | HOLL | 03 | 30 | 1510 | S13 | E55 | 04 | 3.8 | | B | EAO | 120 | 23 | 11 | 4 |
| 10587 | 32048 | MWIL | 03 | 30 | 1530 | S13 | E54 | 04 | 3.7 | 5 | (BG) | | | | | |
| 10587 | | VORO | 03 | 30 | 2308 | S13 | E48 | 04 | 3.6 | | | DAI | 204 | 12 | 6 | 3 |
| 10587 | | LEAR | 03 | 31 | 0105 | S13 | E49 | 04 | 3.7 | | BG | DSO | 150 | 30 | 9 | 2 |
| 10587 | | TACH | 03 | 31 | 0539 | S13 | E46 | 04 | 3.7 | | | CAI | 70 | 8 | 7 | 3 |
| 10587 | | KAND | 03 | 31 | 0615 | S16 | E45 | 04 | 3.7 | | | CAO | | 16 | 10 | 3 |
| 10587 | | KAND | 03 | 31 | 0615 | S16 | E45 | 04 | 3.7 | | | CAO | | 16 | 10 | 3 |
| 10587 | | HOLL | 03 | 31 | 1418 | S13 | E41 | 04 | 3.7 | | B | EAO | 220 | 18 | 11 | 4 |
| 10587 | 32048 | MWIL | 03 | 31 | 1530 | S14 | E40 | 04 | 3.7 | 4 | (B ) | | | | | |
| 10587 | | VORO | 03 | 31 | 2304 | S14 | E36 | 04 | 3.7 | | | CAI | 254 | 13 | 9 | 3 |
| 10587 | | LEAR | 04 | 01 | 0040 | S13 | E35 | 04 | 3.7 | | B | DAO | 180 | 18 | 10 | 3 |
| 10587 | | KAND | 04 | 01 | 1140 | S12 | E27 | 04 | 3.5 | | | CAO | | 8 | 9 | 2 |
| 10587 | | HOLL | 04 | 01 | 1428 | S12 | E27 | 04 | 3.6 | | B | CAO | 170 | 27 | 9 | 4 |
| 10587 | 32048 | MWIL | 04 | 01 | 1530 | S14 | E26 | 04 | 3.6 | 5 | (BP) | | | | | |
| 10587 | | LEAR | 04 | 02 | 0008 | S13 | E24 | 04 | 3.8 | | B | CAO | 150 | 24 | 11 | 4 |
| 10587 | | HOLL | 04 | 02 | 1731 | S12 | E12 | 04 | 3.6 | | B | EAO | 170 | 38 | 12 | 3 |
| 10587 | 32048 | MWIL | 04 | 02 | 1800 | S13 | E12 | 04 | 3.6 | 5 | (BP) | | | | | |
| 10587 | | VORO | 04 | 02 | 2306 | S14 | E10 | 04 | 3.7 | | | DKI | 209 | 26 | 8 | 3 |
| 10587 | | LEAR | 04 | 03 | 0005 | S13 | E10 | 04 | 3.7 | | B | EAO | 150 | 21 | 11 | 4 |
| 10587 | | SVTO | 04 | 03 | 0840 | S13 | E01 | 04 | 3.4 | | B | DAO | 130 | 7 | 3 | 3 |
| 10587 | | KAND | 04 | 03 | 0845 | S14 | E00 | 04 | 3.4 | | | HA | | 7 | 3 | 2 |
| 10587 | 32049 | MWIL | 04 | 03 | 1545 | S13 | W01 | 04 | 3.6 | 5 | (BG) | | | | | |
| 10587 | | HOLL | 04 | 03 | 1840 | S14 | W02 | 04 | 3.6 | | B | DAO | 100 | 9 | 6 | 3 |
| 10587 | | VORO | 04 | 03 | 2245 | S13 | W03 | 04 | 3.7 | | | CKI | 215 | 21 | 7 | 3 |
| 10587 | | LEAR | 04 | 04 | 0035 | S13 | W04 | 04 | 3.7 | | B | DAI | 190 | 26 | 8 | 3 |
| 10587 | | SVTO | 04 | 04 | 0845 | S14 | W11 | 04 | 3.5 | | B | DAO | 100 | 6 | 5 | 3 |
| 10587 | | KAND | 04 | 04 | 0935 | S15 | W11 | 04 | 3.6 | | | DAO | | 11 | 7 | 3 |
| 10587 | 32049 | MWIL | 04 | 04 | 1430 | S13 | W13 | 04 | 3.6 | 4 | (BG) | | | | | |
| 10587 | | LEAR | 04 | 05 | 0001 | S14 | W17 | 04 | 3.7 | | B | CAI | 170 | 26 | 10 | 3 |
| 10587 | | VORO | 04 | 05 | 0016 | S13 | W20 | 04 | 3.5 | | | HKX | 168 | 18 | | 3 |
| 10587 | | SVTO | 04 | 05 | 0714 | S13 | W23 | 04 | 3.6 | | B | CAO | 110 | 7 | 8 | 3 |
| 10587 | | KAND | 04 | 05 | 0810 | S14 | W26 | 04 | 3.4 | | | CAO | | 7 | 6 | 3 |
| 10587 | 32049 | MWIL | 04 | 05 | 1430 | S13 | W28 | 04 | 3.5 | 5 | (BP) | | | | | |
| 10587 | | VORO | 04 | 06 | 0114 | S13 | W34 | 04 | 3.5 | | | HAX | 89 | 5 | | 3 |
| 10587 | | LEAR | 04 | 06 | 0311 | S14 | W33 | 04 | 3.6 | | B | CAO | 100 | 11 | 9 | 2 |
| 10587 | | SVTO | 04 | 06 | 0603 | S13 | W37 | 04 | 3.5 | | B | CAO | 80 | 3 | 3 | 3 |
| 10587 | | KAND | 04 | 06 | 0630 | S15 | W36 | 04 | 3.5 | | | CAO | | 7 | 9 | 3 |
| 10587 | 32049 | MWIL | 04 | 06 | 1430 | S13 | W40 | 04 | 3.6 | 5 | (BG) | | | | | |
| 10587 | | HOLL | 04 | 06 | 1550 | S13 | W42 | 04 | 3.5 | | B | DSI | 30 | 9 | 4 | 3 |
| 10587 | | VORO | 04 | 06 | 2238 | S13 | W46 | 04 | 3.5 | | | HRX | 46 | 4 | | 3 |
| 10587 | | LEAR | 04 | 07 | 0030 | S13 | W45 | 04 | 3.6 | | B | CAO | 40 | 8 | 8 | 2 |
| 10587 | | SVTO | 04 | 07 | 0615 | S12 | W51 | 04 | 3.4 | | B | CAO | 30 | 3 | 3 | 3 |
| 10587 | | KAND | 04 | 07 | 0740 | S14 | W53 | 04 | 3.3 | | | AX | | 4 | 2 | 4 |
| 10587 | | HOLL | 04 | 07 | 1416 | S14 | W55 | 04 | 3.4 | | B | BXO | 20 | 4 | 7 | 3 |
| 10587 | 32049 | MWIL | 04 | 07 | 1430 | S13 | W55 | 04 | 3.4 | 4 | (BP) | | | | | |
| 10587 | | VORO | 04 | 07 | 2235 | S13 | W59 | 04 | 3.5 | | | BXO | 9 | 2 | 0 | 3 |
| 10587 | | LEAR | 04 | 08 | 0023 | S13 | W60 | 04 | 3.5 | | A | AXX | 20 | 2 | 1 | 2 |
| 10587 | 32049 | MWIL | 04 | 08 | 1500 | S13 | W68 | 04 | 3.5 | 4 | (AP) | | | | | |
| 10587A | | TACH | 04 | 03 | 0542 | S04 | E06 | 04 | 3.7 | | | HA | 176 | 3 | 2 | 2 |
| 10587C | 32055 | MWIL | 04 | 09 | 1500 | N06 | W26 | 04 | 7.7 | 3 | (AF) | | | | | |

# S U N S P O T  G R O U P S
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### APRIL 2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10588 | | HOLL | 04 | 01 | 1428 | S12 | E79 | 04 | 7.5 | | A | HSX | 60 | 1 | 1 | 4 |
| 10588 | 32050 | MWIL | 04 | 01 | 1530 | S13 | E84 | 04 | 8.0 | 4 | (AP) | | | | | |
| 10588 | | LEAR | 04 | 02 | 0008 | S13 | E76 | 04 | 7.7 | | A | HSX | 60 | 1 | 2 | 4 |
| 10588 | | HOLL | 04 | 02 | 1731 | S12 | E68 | 04 | 7.8 | | A | HAX | 70 | 1 | 2 | 3 |
| 10588 | 32050 | MWIL | 04 | 02 | 1800 | S13 | E68 | 04 | 7.9 | 5 | (AP) | | | | | |
| 10588 | | VORO | 04 | 02 | 2306 | S15 | E65 | 04 | 7.9 | | | DAI | 93 | 6 | 0 | 3 |
| 10588 | | LEAR | 04 | 03 | 0005 | S15 | E65 | 04 | 7.9 | | B | CSO | 70 | 5 | 3 | 4 |
| 10588 | | TACH | 04 | 03 | 0542 | S15 | E61 | 04 | 7.8 | | | CSO | 33 | 2 | 1 | 2 |
| 10588 | | SVTO | 04 | 03 | 0840 | S16 | E61 | 04 | 8.0 | | B | DAO | 100 | 5 | 6 | 3 |
| 10588 | | KAND | 04 | 03 | 0845 | S14 | E61 | 04 | 8.0 | | | HS | | 1 | 2 | 2 |
| 10588 | | KAND | 04 | 03 | 0845 | S18 | E61 | 04 | 8.0 | | | BXO | | 2 | 1 | 2 |
| 10588 | 32050 | MWIL | 04 | 03 | 1545 | S13 | E56 | 04 | 7.9 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 03 | 1545 | S16 | E56 | 04 | 7.9 | 4 | (B ) | | | | | |
| 10588 | | HOLL | 04 | 03 | 1840 | S14 | E55 | 04 | 7.9 | | B | DAI | 40 | 7 | 7 | 3 |
| 10588 | | VORO | 04 | 03 | 2245 | S15 | E53 | 04 | 8.0 | | | DAI | 130 | 6 | 0 | 3 |
| 10588 | | LEAR | 04 | 04 | 0035 | S15 | E54 | 04 | 8.1 | | B | CSO | 160 | 16 | 8 | 3 |
| 10588 | | SVTO | 04 | 04 | 0845 | S17 | E45 | 04 | 7.8 | | B | DAO | 70 | 6 | 7 | 3 |
| 10588 | | KAND | 04 | 04 | 0935 | S14 | E48 | 04 | 8.0 | | | HS | | 1 | 2 | 3 |
| 10588 | | KAND | 04 | 04 | 0935 | S17 | E48 | 04 | 8.0 | | | CAI | | 6 | 5 | 3 |
| 10588 | 32050 | MWIL | 04 | 04 | 1430 | S13 | E44 | 04 | 7.9 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 04 | 1430 | S16 | E43 | 04 | 7.9 | 4 | (B ) | | | | | |
| 10588 | | LEAR | 04 | 05 | 0001 | S14 | E38 | 04 | 7.9 | | BG | DAO | 200 | 15 | 5 | 3 |
| 10588 | | VORO | 04 | 05 | 0016 | S15 | E39 | 04 | 8.0 | | | DAI | 219 | 11 | 2 | 3 |
| 10588 | | SVTO | 04 | 05 | 0714 | S16 | E34 | 04 | 7.9 | | B | DSI | 140 | 9 | 8 | 3 |
| 10588 | | KAND | 04 | 05 | 0810 | S14 | E35 | 04 | 8.0 | | | HA | | 1 | 2 | 3 |
| 10588 | | KAND | 04 | 05 | 0810 | S17 | E34 | 04 | 7.9 | | | DAO | | 8 | 6 | 3 |
| 10588 | 32050 | MWIL | 04 | 05 | 1430 | S13 | E31 | 04 | 7.9 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 05 | 1430 | S16 | E30 | 04 | 7.9 | 5 | (D ) | | | | | |
| 10588 | | VORO | 04 | 06 | 0114 | S16 | E24 | 04 | 7.9 | | | DAO | 198 | 12 | 4 | 3 |
| 10588 | | VORO | 04 | 06 | 0114 | S19 | E19 | 04 | 7.5 | | | AXX | 3 | 1 | | 3 |
| 10588 | | LEAR | 04 | 06 | 0311 | S16 | E27 | 04 | 8.2 | | BG | DAI | 130 | 13 | 10 | 2 |
| 10588 | | SVTO | 04 | 06 | 0603 | S15 | E22 | 04 | 7.9 | | B | DSI | 160 | 7 | 7 | 3 |
| 10588 | | KAND | 04 | 06 | 0630 | S15 | E23 | 04 | 8.0 | | | HS | | 2 | 2 | 3 |
| 10588 | | KAND | 04 | 06 | 0630 | S18 | E22 | 04 | 7.9 | | | DAO | | 9 | 5 | 3 |
| 10588 | 32050 | MWIL | 04 | 06 | 1430 | S13 | E18 | 04 | 8.0 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 06 | 1430 | S16 | E17 | 04 | 7.9 | 5 | (B ) | | | | | |
| 10588 | 32053 | MWIL | 04 | 06 | 1430 | S19 | E24 | 04 | 8.4 | 4 | (B ) | | | | | |
| 10588 | | HOLL | 04 | 06 | 1550 | S15 | E18 | 04 | 8.0 | | B | DAI | 100 | 23 | 10 | 3 |
| 10588 | | VORO | 04 | 06 | 2238 | S16 | E13 | 04 | 7.9 | | | DHO | 164 | 12 | 3 | 3 |
| 10588 | | LEAR | 04 | 07 | 0030 | S16 | E15 | 04 | 8.1 | | BG | DAI | 130 | 12 | 10 | 2 |
| 10588 | | SVTO | 04 | 07 | 0615 | S17 | E08 | 04 | 7.9 | | BG | DSO | 140 | 7 | 8 | 3 |
| 10588 | | KAND | 04 | 07 | 0740 | S15 | E08 | 04 | 7.9 | | | HS | | 1 | 2 | 4 |
| 10588 | | KAND | 04 | 07 | 0740 | S17 | E06 | 04 | 7.8 | | | CAI | | 11 | 5 | 4 |
| 10588 | | HOLL | 04 | 07 | 1416 | S17 | E07 | 04 | 8.1 | | B | CAO | 180 | 10 | 8 | 3 |
| 10588 | 32050 | MWIL | 04 | 07 | 1430 | S13 | E05 | 04 | 8.0 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 07 | 1430 | S17 | E04 | 04 | 7.9 | 5 | (BG) | | | | | |
| 10588 | 32053 | MWIL | 04 | 07 | 1430 | S19 | E10 | 04 | 8.4 | 4 | (AP) | | | | | |
| 10588 | | VORO | 04 | 07 | 2235 | S16 | W00 | 04 | 7.9 | | | DHO | 177 | 12 | 4 | 3 |
| 10588 | | LEAR | 04 | 08 | 0023 | S16 | E01 | 04 | 8.1 | | BG | DAO | 140 | 15 | 10 | 2 |
| 10588 | | SVTO | 04 | 08 | 0704 | S16 | W06 | 04 | 7.8 | | B | DSO | 130 | 6 | 8 | 2 |
| 10588 | | KAND | 04 | 08 | 0830 | S14 | W06 | 04 | 7.9 | | | HS | | 1 | 2 | 3 |
| 10588 | | KAND | 04 | 08 | 0830 | S18 | W07 | 04 | 7.8 | | | DAO | | 7 | 6 | 3 |
| 10588 | 32050 | MWIL | 04 | 08 | 1500 | S13 | W09 | 04 | 7.9 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 08 | 1500 | S17 | W11 | 04 | 7.8 | 5 | (B ) | | | | | |
| 10588 | | VORO | 04 | 08 | 2219 | S16 | W13 | 04 | 7.9 | | | DHO | 147 | 10 | 5 | 3 |
| 10588 | | LEAR | 04 | 09 | 0053 | S15 | W14 | 04 | 8.0 | | B | CSO | 150 | 10 | 6 | 2 |
| 10588 | | KAND | 04 | 09 | 0650 | S15 | W18 | 04 | 7.9 | | | HS | | 1 | 2 | 3 |
| 10588 | | KAND | 04 | 09 | 0650 | S18 | W19 | 04 | 7.8 | | | DRO | | 5 | 6 | 3 |
| 10588 | 32050 | MWIL | 04 | 09 | 1500 | S13 | W22 | 04 | 8.0 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 09 | 1500 | S16 | W23 | 04 | 7.9 | 4 | (B ) | | | | | |
| 10588 | | LEAR | 04 | 10 | 0041 | S15 | W26 | 04 | 8.1 | | B | CSO | 150 | 10 | 8 | 2 |
| 10588 | | VORO | 04 | 10 | 0428 | S16 | W29 | 04 | 8.0 | | | DSI | 155 | 7 | 3 | 3 |
| 10588 | | TACH | 04 | 10 | 0525 | S16 | W30 | 04 | 7.9 | | | DAO | 125 | 3 | 2 | 3 |
| 10588 | | KAND | 04 | 10 | 0650 | S16 | W31 | 04 | 7.9 | | | HS | | 1 | 2 | 3 |
| 10588 | | KAND | 04 | 10 | 0650 | S18 | W32 | 04 | 7.8 | | | CSO | | 4 | 5 | 3 |
| 10588 | 32050 | MWIL | 04 | 10 | 1500 | S14 | W35 | 04 | 8.0 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 10 | 1500 | S16 | W36 | 04 | 7.9 | 4 | (B ) | | | | | |
| 10588 | | HOLL | 04 | 10 | 2000 | S16 | W40 | 04 | 7.8 | | B | DSI | 60 | 8 | 6 | 2 |
| 10588 | | VORO | 04 | 10 | 2343 | S14 | W39 | 04 | 8.0 | | | HAX | 149 | 4 | | 3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10588 | | LEAR | 04 | 11 | 0004 | S15 | W42 | 04 | 7.8 | | B | CSO | 90 | 6 | 5 | 3 |
| 10588 | | TACH | 04 | 11 | 0435 | S16 | W42 | 04 | 8.0 | | | CSO | 68 | 2 | 2 | 3 |
| 10588 | 32050 | MWIL | 04 | 11 | 1430 | S15 | W48 | 04 | 8.0 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 11 | 1430 | S16 | W49 | 04 | 7.9 | 3 | (BG) | | | | | |
| 10588 | | VORO | 04 | 12 | 0359 | S16 | W54 | 04 | 8.1 | | | DAI | 121 | 3 | 1 | 3 |
| 10588 | | TACH | 04 | 12 | 0440 | S16 | W55 | 04 | 8.0 | | | DAI | 178 | 5 | 3 | 3 |
| 10588 | | KAND | 04 | 12 | 0730 | S15 | W58 | 04 | 7.9 | | | HS | | 1 | 1 | 3 |
| 10588 | | KAND | 04 | 12 | 0730 | S17 | W60 | 04 | 7.7 | | | AX | | 1 | | 3 |
| 10588 | | SVTO | 04 | 12 | 1014 | S13 | W60 | 04 | 7.9 | | B | CSO | 40 | 3 | 4 | 2 |
| 10588 | | HOLL | 04 | 12 | 1423 | S17 | W60 | 04 | 8.0 | | B | CAO | 140 | 6 | 5 | 3 |
| 10588 | 32050 | MWIL | 04 | 12 | 1430 | S14 | W61 | 04 | 8.0 | 5 | (AP) | | | | | |
| 10588 | 32051 | MWIL | 04 | 12 | 1430 | S18 | W62 | 04 | 7.9 | 4 | (BG) | | | | | |
| 10588 | | LEAR | 04 | 13 | 0150 | S16 | W68 | 04 | 7.9 | | B | CAO | 60 | 3 | 2 | 2 |
| 10588 | | SVTO | 04 | 13 | 0523 | S12 | W70 | 04 | 7.9 | | A | HSX | 50 | 1 | 2 | 3 |
| 10588 | | TACH | 04 | 13 | 0648 | S14 | W67 | 04 | 8.2 | | | HSX | 89 | 1 | 2 | 3 |
| 10588 | 32050 | MWIL | 04 | 13 | 1430 | S14 | W74 | 04 | 8.0 | 5 | (AP) | | | | | |
| 10588 | | HOLL | 04 | 13 | 1445 | S13 | W76 | 04 | 7.9 | | A | HAX | 60 | 1 | 3 | 3 |
| 10588 | | VORO | 04 | 13 | 2250 | S14 | W78 | 04 | 8.0 | | | HAX | 85 | 1 | | 3 |
| 10588 | | LEAR | 04 | 14 | 0003 | S16 | W77 | 04 | 8.2 | | A | HSX | 60 | 1 | 3 | 3 |
| 10588 | | TACH | 04 | 14 | 0509 | S14 | W79 | 04 | 8.2 | | | HXX | 59 | 1 | 2 | 3 |
| 10588 | | SVTO | 04 | 14 | 0625 | S14 | W80 | 04 | 8.2 | | A | HSX | 20 | 1 | 1 | 3 |
| 10588A | | VORO | 04 | 12 | 0359 | S17 | W32 | 04 | 9.7 | | | AXX | 2 | 1 | | 3 |
| 10589 | 32052 | MWIL | 04 | 04 | 1430 | N11 | E75 | 04 | 10.2 | 4 | (AP) | | | | | |
| 10589 | | LEAR | 04 | 05 | 0001 | N12 | E66 | 04 | 10.0 | | B | BXO | 70 | 5 | 5 | 3 |
| 10589 | | VORO | 04 | 05 | 0016 | N10 | E66 | 04 | 10.0 | | | BXI | 33 | 6 | 2 | 3 |
| 10589 | | SVTO | 04 | 05 | 0714 | N09 | E63 | 04 | 10.0 | | B | BXO | 20 | 2 | 3 | 3 |
| 10589 | | KAND | 04 | 05 | 0810 | N10 | E63 | 04 | 10.1 | | | BXO | | 2 | 3 | 3 |
| 10589 | 32052 | MWIL | 04 | 05 | 1430 | N11 | E59 | 04 | 10.0 | 4 | (B ) | | | | | |
| 10589 | | VORO | 04 | 06 | 0114 | N11 | E51 | 04 | 9.9 | | | BXO | 3 | 3 | 3 | 3 |
| 10589 | | LEAR | 04 | 06 | 0311 | N10 | E52 | 04 | 10.0 | | B | BXO | 20 | 3 | 4 | 2 |
| 10589 | | SVTO | 04 | 06 | 0603 | N10 | E52 | 04 | 10.1 | | A | AXX | 20 | 2 | 2 | 3 |
| 10589 | | KAND | 04 | 06 | 0630 | N09 | E52 | 04 | 10.2 | | | AX | | 2 | 1 | 3 |
| 10589 | 32052 | MWIL | 04 | 06 | 1430 | N11 | E46 | 04 | 10.1 | 4 | (BF) | | | | | |
| 10589 | | HOLL | 04 | 06 | 1550 | N11 | E47 | 04 | 10.2 | | A | AXX | 10 | 3 | 1 | 3 |
| 10589 | | LEAR | 04 | 07 | 0030 | N11 | E41 | 04 | 10.1 | | A | AXX | 10 | 1 | 1 | 2 |
| 10589 | 32056 | MWIL | 04 | 10 | 1500 | N10 | W12 | 04 | 9.7 | 3 | (AP) | | | | | |
| 10591 | | VORO | 04 | 12 | 0359 | S15 | E10 | 04 | 12.9 | | | BRI | 19 | 6 | 2 | 3 |
| 10591 | | TACH | 04 | 12 | 0440 | S15 | E09 | 04 | 12.9 | | | BRI | 7 | 4 | 3 | 3 |
| 10591 | | KAND | 04 | 12 | 0630 | S15 | E07 | 04 | 12.8 | | | CRO | | 2 | 4 | 3 |
| 10591 | | HOLL | 04 | 12 | 1423 | S15 | E06 | 04 | 13.0 | | B | CAI | 40 | 12 | 8 | 3 |
| 10591 | 32057 | MWIL | 04 | 12 | 1430 | S15 | E04 | 04 | 12.9 | 4 | (B ) | | | | | |
| 10591 | 32058 | MWIL | 04 | 12 | 1430 | S16 | E07 | 04 | 13.1 | 4 | (B ) | | | | | |
| 10591 | | LEAR | 04 | 13 | 0150 | S16 | W01 | 04 | 13.0 | | B | CAO | 50 | 7 | 7 | 2 |
| 10591 | | SVTO | 04 | 13 | 0523 | S16 | W05 | 04 | 12.8 | | BG | CSO | 20 | 4 | 6 | 3 |
| 10591 | | TACH | 04 | 13 | 0648 | S14 | W05 | 04 | 12.9 | | | BRO | 22 | 3 | 4 | 3 |
| 10591 | 32057 | MWIL | 04 | 13 | 1430 | S16 | W06 | 04 | 13.1 | 5 | (BG) | | | | | |
| 10591 | | HOLL | 04 | 13 | 1445 | S16 | W07 | 04 | 13.1 | | B | DAO | 70 | 16 | 9 | 3 |
| 10591 | | VORO | 04 | 13 | 2250 | S16 | W13 | 04 | 13.0 | | | DAI | 72 | 9 | 7 | 3 |
| 10591 | | LEAR | 04 | 14 | 0003 | S17 | W12 | 04 | 13.1 | | B | CAI | 70 | 18 | 9 | 3 |
| 10591 | | TACH | 04 | 14 | 0509 | S16 | W16 | 04 | 13.0 | | | DAI | 108 | 8 | 8 | 3 |
| 10591 | | SVTO | 04 | 14 | 0625 | S17 | W16 | 04 | 13.0 | | BG | DAO | 80 | 11 | 9 | 3 |
| 10591 | | KAND | 04 | 14 | 0815 | S18 | W18 | 04 | 13.0 | | | DAO | | 9 | 9 | 2 |
| 10591 | 32057 | MWIL | 04 | 14 | 1430 | S16 | W20 | 04 | 13.1 | 5 | (D ) | | | | | |
| 10591 | | HOLL | 04 | 14 | 1600 | S17 | W21 | 04 | 13.1 | | B | EAI | 80 | 9 | 11 | 3 |
| 10591 | | VORO | 04 | 14 | 2229 | S16 | W24 | 04 | 13.1 | | | DAI | 102 | 6 | 6 | 3 |
| 10591 | | LEAR | 04 | 15 | 0119 | S17 | W25 | 04 | 13.1 | | BG | DSO | 80 | 12 | 8 | 2 |
| 10591 | | TACH | 04 | 15 | 0525 | S16 | W27 | 04 | 13.2 | | | CAI | 97 | 6 | 6 | 3 |
| 10591 | | SVTO | 04 | 15 | 0536 | S16 | W28 | 04 | 13.1 | | B | DSO | 90 | 7 | 9 | 3 |
| 10591 | | HOLL | 04 | 15 | 1401 | S16 | W34 | 04 | 13.0 | | B | DSO | 100 | 14 | 9 | 4 |
| 10591 | 32057 | MWIL | 04 | 15 | 1430 | S16 | W34 | 04 | 13.0 | 5 | (D ) | | | | | |
| 10591 | | VORO | 04 | 15 | 2232 | S16 | W37 | 04 | 13.1 | | | DAI | 127 | 3 | 8 | 3 |
| 10591 | | LEAR | 04 | 16 | 0116 | S17 | W40 | 04 | 13.0 | | BG | CSO | 80 | 6 | 8 | 2 |
| 10591 | | KAND | 04 | 16 | 0655 | S17 | W44 | 04 | 12.9 | | | CSO | | 3 | 8 | 3 |
| 10591 | | HOLL | 04 | 16 | 1424 | S16 | W47 | 04 | 13.0 | | B | DAO | 60 | 6 | 9 | 3 |
| 10591 | 32057 | MWIL | 04 | 16 | 1430 | S16 | W48 | 04 | 13.0 | 5 | (D ) | | | | | |
| 10591 | | VORO | 04 | 17 | 0022 | S15 | W54 | 04 | 12.9 | | | CAI | 78 | 2 | 4 | 3 |

# S U N S P O T  G R O U P S
## (Ordered by Central Meridian Passage Date)

## APRIL 2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10591 | | LEAR | 04 | 17 | 0054 | S16 | W54 | 04 | 12.9 | | B | CAO | 60 | 7 | 7 | 3 |
| 10591 | | TACH | 04 | 17 | 0718 | S14 | W60 | 04 | 12.8 | | | HA | 99 | 2 | 3 | 3 |
| 10591 | | LEAR | 04 | 18 | 0005 | S17 | W66 | 04 | 13.0 | | B | BXO | 50 | 4 | 7 | 3 |
| 10597 | | KAND | 04 | 20 | 0855 | S07 | W51 | 04 | 16.5 | | | BXO | | 2 | 4 | 2 |
| 10597 | 32069 | MWIL | 04 | 20 | 1430 | S06 | W54 | 04 | 16.6 | 4 | (B ) | | | | | |
| 10597 | | HOLL | 04 | 20 | 1450 | S06 | W55 | 04 | 16.5 | | B | DAO | 70 | 6 | 4 | 3 |
| 10597 | | VORO | 04 | 20 | 2249 | S06 | W59 | 04 | 16.5 | | | CRO | 34 | 2 | 5 | 3 |
| 10597 | | LEAR | 04 | 21 | 0050 | S08 | W62 | 04 | 16.4 | | B | DSO | 60 | 2 | 4 | 2 |
| 10597 | | SVTO | 04 | 21 | 1025 | S06 | W65 | 04 | 16.6 | | B | CRO | 40 | 4 | 6 | 3 |
| 10597 | | HOLL | 04 | 21 | 1335 | S06 | W67 | 04 | 16.5 | | B | DSO | 60 | 5 | 5 | 4 |
| 10597 | 32069 | MWIL | 04 | 21 | 1430 | S07 | W68 | 04 | 16.5 | 4 | (B ) | | | | | |
| 10597 | | VORO | 04 | 21 | 2241 | S07 | W73 | 04 | 16.5 | | | DAO | 113 | 2 | 5 | 3 |
| 10597 | | LEAR | 04 | 22 | 0028 | S08 | W74 | 04 | 16.5 | | B | BXO | 90 | 4 | 7 | 2 |
| 10597 | | SVTO | 04 | 22 | 0543 | S07 | W78 | 04 | 16.4 | | B | BXO | 30 | 2 | 6 | 3 |
| 10597 | | KAND | 04 | 22 | 0655 | S07 | W80 | 04 | 16.3 | | | BXO | | 3 | 8 | 4 |
| 10597 | | HOLL | 04 | 22 | 1424 | S07 | W76 | 04 | 16.9 | | B | CSO | 50 | 3 | 7 | 4 |
| 10597 | 32069 | MWIL | 04 | 22 | 1430 | S08 | W81 | 04 | 16.5 | 4 | AP | | | | | |
| 10597 | | LEAR | 04 | 23 | 0055 | S10 | W81 | 04 | 16.9 | | B | CSO | 80 | 5 | 6 | 1 |
| 10597 | | VORO | 04 | 23 | 0118 | S08 | W80 | 04 | 17.0 | | | BRX | 17 | 3 | 3 | 2 |
| 10597 | | SVTO | 04 | 23 | 0615 | S08 | W85 | 04 | 16.9 | | B | DSO | 90 | 3 | 8 | 3 |
| 10597A | 32060 | MWIL | 04 | 13 | 1430 | S08 | E47 | 04 | 17.1 | 4 | (AP) | | | | | |
| 10597A | | HOLL | 04 | 13 | 1445 | S08 | E46 | 04 | 17.1 | | A | AXX | 10 | 1 | 1 | 3 |
| 10597A | 32060 | MWIL | 04 | 14 | 1430 | S09 | E35 | 04 | 17.2 | 3 | (B ) | | | | | |
| 10597A | 32065 | MWIL | 04 | 16 | 1430 | S06 | E12 | 04 | 17.5 | 4 | (AP) | | | | | |
| 10593 | 32061 | MWIL | 04 | 14 | 1430 | S19 | E47 | 04 | 18.2 | 4 | (AF) | | | | | |
| 10593 | | HOLL | 04 | 14 | 1600 | S20 | E47 | 04 | 18.3 | | A | HSX | 20 | 1 | 1 | 3 |
| 10593 | | VORO | 04 | 14 | 2229 | S19 | E42 | 04 | 18.1 | | | AXX | 3 | 1 | | 3 |
| 10593 | | LEAR | 04 | 15 | 0119 | S20 | E42 | 04 | 18.3 | | A | AXX | 10 | 1 | 1 | 2 |
| 10593 | | HOLL | 04 | 15 | 1401 | S20 | E35 | 04 | 18.3 | | A | AXX | | 1 | 1 | 4 |
| 10593 | | LEAR | 04 | 18 | 0005 | S18 | E02 | 04 | 18.1 | | B | BXO | 20 | 7 | 7 | 3 |
| 10593 | | VORO | 04 | 18 | 0155 | S18 | E01 | 04 | 18.1 | | | BRO | 15 | 2 | 2 | 3 |
| 10593 | | KAND | 04 | 18 | 1205 | S19 | W05 | 04 | 18.1 | | | BXO | | 8 | 3 | 2 |
| 10593 | | HOLL | 04 | 18 | 1550 | S18 | W08 | 04 | 18.0 | | B | DAI | 60 | 8 | 4 | 2 |
| 10593 | | LEAR | 04 | 19 | 0350 | S18 | W13 | 04 | 18.2 | | B | CSO | 50 | 7 | 4 | 1 |
| 10593 | | SVTO | 04 | 19 | 1335 | S18 | W21 | 04 | 18.0 | | B | DSO | 50 | 5 | 6 | 2 |
| 10593 | | HOLL | 04 | 19 | 1357 | S18 | W19 | 04 | 18.1 | | B | DAI | 50 | 13 | 7 | 4 |
| 10593 | 32067 | MWIL | 04 | 19 | 1730 | S18 | W21 | 04 | 18.1 | 4 | (B ) | | | | | |
| 10593 | | VORO | 04 | 19 | 2307 | S18 | W24 | 04 | 18.1 | | | CRI | 32 | 6 | 6 | 3 |
| 10593 | | LEAR | 04 | 20 | 0201 | S19 | W25 | 04 | 18.2 | | B | DSO | 60 | 11 | 7 | 2 |
| 10593 | | SVTO | 04 | 20 | 0502 | S18 | W28 | 04 | 18.1 | | B | DSO | 30 | 5 | 8 | 3 |
| 10593 | | TACH | 04 | 20 | 0523 | S18 | W31 | 04 | 17.9 | | | AXX | 12 | 1 | 1 | 3 |
| 10593 | | TACH | 04 | 20 | 0523 | S20 | W24 | 04 | 18.4 | | | HR | 62 | 2 | 2 | 3 |
| 10593 | | KAND | 04 | 20 | 0855 | S19 | W29 | 04 | 18.1 | | | DRO | | 6 | 8 | 2 |
| 10593 | 32067 | MWIL | 04 | 20 | 1430 | S19 | W34 | 04 | 18.0 | 4 | (B ) | | | | | |
| 10593 | | HOLL | 04 | 20 | 1450 | S19 | W32 | 04 | 18.2 | | B | DSO | 80 | 11 | 8 | 3 |
| 10593 | | VORO | 04 | 20 | 2249 | S18 | W37 | 04 | 18.1 | | | CRO | 20 | 5 | 7 | 3 |
| 10593 | | LEAR | 04 | 21 | 0050 | S19 | W38 | 04 | 18.1 | | B | BXO | 20 | 5 | 8 | 2 |
| 10593 | | HOLL | 04 | 21 | 1335 | S18 | W46 | 04 | 18.1 | | B | CSO | 30 | 5 | 9 | 4 |
| 10593 | 32067 | MWIL | 04 | 21 | 1430 | S18 | W50 | 04 | 17.8 | 4 | (AP) | | | | | |
| 10593 | | VORO | 04 | 21 | 2241 | S18 | W52 | 04 | 18.0 | | | BXO | 15 | 6 | 3 | 3 |
| 10593 | | LEAR | 04 | 22 | 0028 | S20 | W51 | 04 | 18.1 | | B | BXO | 30 | 4 | 8 | 2 |
| 10593 | | KAND | 04 | 22 | 0655 | S18 | W57 | 04 | 17.9 | | | BXO | | 4 | 7 | 4 |
| 10593 | | HOLL | 04 | 22 | 1424 | S18 | W60 | 04 | 18.0 | | B | CSO | 20 | 3 | 7 | 4 |
| 10593 | 32067 | MWIL | 04 | 22 | 1430 | S18 | W60 | 04 | 18.0 | 3 | (AP) | | | | | |
| 10592 | | HOLL | 04 | 12 | 1423 | S11 | E78 | 04 | 18.5 | | A | AXX | 30 | 1 | 1 | 3 |
| 10592 | 32059 | MWIL | 04 | 12 | 1430 | S10 | E77 | 04 | 18.4 | 4 | (AP) | | | | | |
| 10592 | | LEAR | 04 | 13 | 0150 | S09 | E70 | 04 | 18.3 | | A | HSX | 20 | 1 | 2 | 2 |
| 10592 | | SVTO | 04 | 13 | 0523 | S13 | E68 | 04 | 18.3 | | A | HRX | 20 | 1 | 1 | 3 |
| 10592 | | TACH | 04 | 13 | 0648 | S11 | E68 | 04 | 18.4 | | | HXX | 26 | 1 | 1 | 3 |
| 10592 | 32059 | MWIL | 04 | 13 | 1430 | S11 | E65 | 04 | 18.5 | 4 | (B ) | | | | | |
| 10592 | | HOLL | 04 | 13 | 1445 | S12 | E66 | 04 | 18.6 | | A | HAX | 20 | 2 | 3 | 3 |
| 10592 | | VORO | 04 | 13 | 2250 | S11 | E59 | 04 | 18.4 | | | AXX | 7 | 2 | 2 | 3 |
| 10592 | | LEAR | 04 | 14 | 0003 | S10 | E60 | 04 | 18.5 | | B | BXO | 20 | 3 | 4 | 3 |
| 10592 | | TACH | 04 | 14 | 0509 | S11 | E55 | 04 | 18.3 | | | AXX | 22 | 1 | 1 | 3 |
| 10592 | | SVTO | 04 | 14 | 0625 | S11 | E58 | 04 | 18.6 | | B | CRO | 40 | 4 | 4 | 3 |

# S U N S P O T  G R O U P S
## (Ordered by Central Meridian Passage Date)

## APRIL 2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10592 | | KAND | 04 | 14 | 0815 | S13 | E55 | 04 | 18.5 | | | BXO | | 2 | 3 | 2 |
| 10592 | 32059 | MWIL | 04 | 14 | 1430 | S11 | E52 | 04 | 18.5 | 4 | (B ) | | | | | |
| 10592 | | HOLL | 04 | 14 | 1600 | S12 | E50 | 04 | 18.4 | | A | HAX | 40 | 3 | 3 | 3 |
| 10592 | | VORO | 04 | 14 | 2229 | S11 | E45 | 04 | 18.3 | | | AXX | 8 | 2 | | 3 |
| 10592 | | LEAR | 04 | 15 | 0119 | S12 | E44 | 04 | 18.4 | | A | HSX | 20 | 1 | 1 | 2 |
| 10592 | | TACH | 04 | 15 | 0525 | S11 | E43 | 04 | 18.5 | | | AXX | 21 | 1 | 1 | 3 |
| 10592 | | SVTO | 04 | 15 | 0536 | S11 | E42 | 04 | 18.4 | | A | HSX | 30 | 1 | 1 | 3 |
| 10592 | | HOLL | 04 | 15 | 1401 | S12 | E38 | 04 | 18.4 | | B | CAO | 40 | 4 | 3 | 4 |
| 10592 | 32059 | MWIL | 04 | 15 | 1430 | S11 | E38 | 04 | 18.5 | 5 | (B ) | | | | | |
| 10592 | | VORO | 04 | 15 | 2232 | S11 | E32 | 04 | 18.3 | | | AXX | 8 | 1 | | 3 |
| 10592 | | LEAR | 04 | 16 | 0116 | S11 | E30 | 04 | 18.3 | | A | AXX | 10 | 1 | 1 | 2 |
| 10592 | | KAND | 04 | 16 | 0655 | S12 | E28 | 04 | 18.4 | | | AX | | 1 | 1 | 3 |
| 10592 | | HOLL | 04 | 16 | 1424 | S11 | E24 | 04 | 18.4 | | A | HSX | 20 | 1 | 1 | 3 |
| 10592 | 32059 | MWIL | 04 | 16 | 1430 | S11 | E24 | 04 | 18.4 | 4 | (AF) | | | | | |
| 10592 | | VORO | 04 | 17 | 0022 | S11 | E18 | 04 | 18.4 | | | AXX | 7 | 1 | | 3 |
| 10592 | | LEAR | 04 | 17 | 0054 | S10 | E18 | 04 | 18.4 | | A | HSX | 10 | 1 | 1 | 3 |
| 10592 | | TACH | 04 | 17 | 0718 | S10 | E15 | 04 | 18.4 | | | AXX | 16 | 1 | 1 | 3 |
| 10592 | | LEAR | 04 | 18 | 0005 | S10 | E05 | 04 | 18.4 | | A | AXX | 10 | 1 | 1 | 3 |
| 10592 | | VORO | 04 | 18 | 0155 | S10 | E04 | 04 | 18.4 | | | AXX | 3 | 1 | | 3 |
| 10592 | | KAND | 04 | 18 | 1205 | S11 | W02 | 04 | 18.3 | | | AX | | 1 | | 2 |
| 10592 | | HOLL | 04 | 18 | 1550 | S10 | W04 | 04 | 18.3 | | A | AXX | | 1 | 1 | 2 |
| 10592 | | LEAR | 04 | 19 | 0350 | S10 | W10 | 04 | 18.4 | | A | AXX | 10 | 1 | 2 | 1 |
| 10592 | | HOLL | 04 | 19 | 1357 | S10 | W16 | 04 | 18.4 | | A | AXX | | 1 | 1 | 4 |
| 10592 | 32070 | MWIL | 04 | 21 | 1430 | S06 | W36 | 04 | 18.9 | 4 | (B ) | | | | | |
| 10598 | | HOLL | 04 | 15 | 1401 | S08 | E49 | 04 | 19.2 | | A | AXX | | 1 | 1 | 4 |
| 10598 | 32063 | MWIL | 04 | 15 | 1430 | S07 | E50 | 04 | 19.3 | 4 | (BF) | | | | | |
| 10598 | | VORO | 04 | 19 | 2307 | S10 | W07 | 04 | 19.4 | | | AXX | 6 | 1 | | 3 |
| 10598 | | VORO | 04 | 20 | 2249 | S06 | W15 | 04 | 19.8 | | | BXO | 7 | 2 | 2 | 3 |
| 10598 | | SVTO | 04 | 21 | 1025 | S06 | W24 | 04 | 19.6 | | A | HRX | 20 | 3 | 3 | 3 |
| 10598 | | HOLL | 04 | 21 | 1335 | S05 | W25 | 04 | 19.7 | | B | CSO | 20 | 6 | 5 | 4 |
| 10598 | | VORO | 04 | 21 | 2241 | S06 | W30 | 04 | 19.7 | | | BXO | 8 | 2 | 3 | 3 |
| 10598 | | LEAR | 04 | 22 | 0028 | S07 | W32 | 04 | 19.6 | | B | BXO | 40 | 4 | 4 | 2 |
| 10598 | | SVTO | 04 | 22 | 0543 | S07 | W37 | 04 | 19.5 | | B | AXO | 10 | 2 | 1 | 3 |
| 10598 | | KAND | 04 | 22 | 0655 | S06 | W35 | 04 | 19.7 | | | BXO | | 2 | 5 | 4 |
| 10598 | | HOLL | 04 | 22 | 1424 | S06 | W39 | 04 | 19.7 | | B | BXO | 10 | 4 | 5 | 4 |
| 10594 | | VORO | 04 | 13 | 2250 | N14 | E80 | 04 | 20.0 | | | AXX | 24 | 1 | | 3 |
| 10594 | | LEAR | 04 | 14 | 0003 | N17 | E82 | 04 | 20.2 | | A | HSX | 30 | 1 | 5 | 3 |
| 10594 | | TACH | 04 | 14 | 0509 | N16 | E82 | 04 | 20.4 | | | HSX | 122 | 1 | 3 | 3 |
| 10594 | | SVTO | 04 | 14 | 0625 | N15 | E79 | 04 | 20.2 | | A | HSX | 30 | 1 | 1 | 3 |
| 10594 | 32062 | MWIL | 04 | 14 | 1430 | N15 | E72 | 04 | 20.0 | 4 | (AP) | | | | | |
| 10594 | | HOLL | 04 | 14 | 1600 | N13 | E72 | 04 | 20.1 | | A | HAX | 60 | 1 | 2 | 3 |
| 10594 | | VORO | 04 | 14 | 2229 | N14 | E67 | 04 | 20.0 | | | HAX | 96 | 1 | | 3 |
| 10594 | | LEAR | 04 | 15 | 0119 | N14 | E66 | 04 | 20.0 | | A | HSX | 50 | 1 | 2 | 2 |
| 10594 | | TACH | 04 | 15 | 0525 | N14 | E69 | 04 | 20.4 | | | DSO | 181 | 2 | 9 | 3 |
| 10594 | | SVTO | 04 | 15 | 0536 | N14 | E64 | 04 | 20.1 | | A | HSX | 40 | 1 | 2 | 3 |
| 10594 | | HOLL | 04 | 15 | 1401 | N14 | E58 | 04 | 20.0 | | A | HAX | 90 | 4 | 2 | 4 |
| 10594 | 32064 | MWIL | 04 | 15 | 1430 | N14 | E58 | 04 | 20.0 | 5 | (AP) | | | | | |
| 10594 | | VORO | 04 | 15 | 2232 | N15 | E53 | 04 | 19.9 | | | HAX | 71 | 1 | | 3 |
| 10594 | | LEAR | 04 | 16 | 0116 | N15 | E52 | 04 | 20.0 | | A | HSX | 60 | 1 | 2 | 2 |
| 10594 | | KAND | 04 | 16 | 0655 | N14 | E49 | 04 | 20.0 | | | HS | | 1 | 2 | 3 |
| 10594 | | HOLL | 04 | 16 | 1424 | N15 | E45 | 04 | 20.0 | | A | HAX | 70 | 3 | 2 | 3 |
| 10594 | 32064 | MWIL | 04 | 16 | 1430 | N14 | E45 | 04 | 20.0 | 5 | (AP) | | | | | |
| 10594 | | VORO | 04 | 17 | 0022 | N14 | E39 | 04 | 20.0 | | | HAX | 45 | 2 | | 3 |
| 10594 | | LEAR | 04 | 17 | 0054 | N16 | E38 | 04 | 19.9 | | A | HAX | 50 | 4 | 2 | 3 |
| 10594 | | TACH | 04 | 17 | 0718 | N15 | E36 | 04 | 20.0 | | | HR | 50 | 2 | 2 | 3 |
| 10594 | | LEAR | 04 | 18 | 0005 | N15 | E27 | 04 | 20.0 | | B | BXO | 30 | 6 | 6 | 3 |
| 10594 | | VORO | 04 | 18 | 0155 | N15 | E24 | 04 | 19.9 | | | ARX | 18 | 1 | | 3 |
| 10594 | | KAND | 04 | 18 | 1205 | N14 | E18 | 04 | 19.9 | | | HS | | 1 | 2 | 2 |
| 10594 | | HOLL | 04 | 18 | 1550 | N16 | E17 | 04 | 19.9 | | A | HAX | 10 | 1 | 1 | 2 |
| 10594 | | LEAR | 04 | 19 | 0350 | N16 | E10 | 04 | 19.9 | | B | BXO | 20 | 2 | 2 | 1 |
| 10594 | | SVTO | 04 | 19 | 1335 | N15 | E05 | 04 | 19.9 | | A | HSX | 10 | 1 | 1 | 2 |
| 10594 | | HOLL | 04 | 19 | 1357 | N15 | E06 | 04 | 20.0 | | A | HAX | 10 | 1 | 1 | 4 |
| 10594 | 32064 | MWIL | 04 | 19 | 1730 | N15 | E03 | 04 | 19.9 | 4 | (AP) | | | | | |
| 10594 | | VORO | 04 | 19 | 2307 | N15 | W00 | 04 | 20.0 | | | AXX | 8 | 1 | | 3 |
| 10594 | | LEAR | 04 | 20 | 0201 | N15 | W02 | 04 | 19.9 | | A | HSX | 10 | 1 | 1 | 2 |
| 10594 | | SVTO | 04 | 20 | 0502 | N15 | W02 | 04 | 20.0 | | A | HSX | 20 | 1 | 1 | 3 |
| 10594 | 32064 | MWIL | 04 | 20 | 1430 | N15 | W08 | 04 | 20.0 | 4 | (AP) | | | | | |

# S U N S P O T  G R O U P S
## (Ordered by Central Meridian Passage Date)

### APRIL 2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10595 | | HOLL | 04 | 16 | 1424 | S09 | E73 | 04 | 22.1 | | B | CSO | 40 | 4 | 6 | 3 |
| 10595 | 32066 | MWIL | 04 | 16 | 1430 | S09 | E72 | 04 | 22.0 | 4 | (B ) | | | | | |
| 10595 | | VORO | 04 | 17 | 0022 | S06 | E64 | 04 | 21.8 | | | AXX | 5 | 1 | | 3 |
| 10595 | | VORO | 04 | 17 | 0022 | S09 | E65 | 04 | 21.9 | | | AXX | 12 | 2 | | 3 |
| 10595 | | LEAR | 04 | 17 | 0054 | S04 | E63 | 04 | 21.7 | | A | AXX | 10 | 1 | 1 | 3 |
| 10595 | | LEAR | 04 | 17 | 0054 | S09 | E67 | 04 | 22.1 | | B | BXO | 10 | 3 | 6 | 3 |
| 10595 | | TACH | 04 | 17 | 0718 | S04 | E60 | 04 | 21.8 | | | HSX | 50 | 1 | 1 | 3 |
| 10595 | | LEAR | 04 | 18 | 0005 | S04 | E53 | 04 | 22.0 | | B | BXI | 60 | 13 | 7 | 3 |
| 10595 | | LEAR | 04 | 18 | 0005 | S08 | E53 | 04 | 22.0 | | B | BXO | 30 | 4 | 5 | 3 |
| 10595 | | VORO | 04 | 18 | 0155 | S06 | E51 | 04 | 21.9 | | | DAI | 61 | 5 | 5 | 3 |
| 10595 | | KAND | 04 | 18 | 1205 | S06 | E45 | 04 | 21.9 | | | BXO | | 6 | 6 | 2 |
| 10595 | | HOLL | 04 | 18 | 1550 | S07 | E44 | 04 | 21.9 | | B | EAI | 30 | 9 | 8 | 2 |
| 10595 | | LEAR | 04 | 19 | 0350 | S06 | E37 | 04 | 21.9 | | B | DSO | 120 | 12 | 8 | 1 |
| 10595 | | SVTO | 04 | 19 | 1335 | S06 | E31 | 04 | 21.9 | | B | DSO | 60 | 8 | 8 | 2 |
| 10595 | | HOLL | 04 | 19 | 1357 | S07 | E32 | 04 | 22.0 | | B | DAI | 80 | 37 | 8 | 4 |
| 10595 | 32066 | MWIL | 04 | 19 | 1730 | S05 | E30 | 04 | 22.0 | 5 | (BG) | | | | | |
| 10595 | | VORO | 04 | 19 | 2307 | S06 | E25 | 04 | 21.8 | | | CAI | 83 | 0 | 5 | 3 |
| 10595 | | LEAR | 04 | 20 | 0201 | S06 | E25 | 04 | 21.9 | | B | DAO | 90 | 11 | 7 | 2 |
| 10595 | | SVTO | 04 | 20 | 0502 | S07 | E24 | 04 | 22.0 | | B | DSO | 70 | 6 | 7 | 3 |
| 10595 | | TACH | 04 | 20 | 0523 | S05 | E22 | 04 | 21.9 | | | DSI | 121 | 7 | 6 | 3 |
| 10595 | | KAND | 04 | 20 | 0855 | S06 | E20 | 04 | 21.9 | | | DAO | | 11 | 8 | 2 |
| 10595 | 32066 | MWIL | 04 | 20 | 1430 | S06 | E17 | 04 | 21.9 | 5 | (B ) | | | | | |
| 10595 | | HOLL | 04 | 20 | 1450 | S07 | E18 | 04 | 22.0 | | B | DAO | 50 | 13 | 8 | 3 |
| 10595 | | VORO | 04 | 20 | 2249 | S06 | E13 | 04 | 21.9 | | | CAO | 79 | 7 | 5 | 3 |
| 10595 | | LEAR | 04 | 21 | 0050 | S07 | E11 | 04 | 21.8 | | B | CAO | 50 | 7 | 7 | 2 |
| 10595 | | SVTO | 04 | 21 | 1025 | S04 | E06 | 04 | 21.9 | | A | HSX | 40 | 3 | 3 | 3 |
| 10595 | | HOLL | 04 | 21 | 1335 | S06 | E06 | 04 | 22.0 | | B | DAO | 60 | 13 | 8 | 4 |
| 10595 | 32066 | MWIL | 04 | 21 | 1430 | S06 | E04 | 04 | 21.9 | 4 | (BP) | | | | | |
| 10595 | | VORO | 04 | 21 | 2241 | S06 | W01 | 04 | 21.9 | | | CAO | 19 | 3 | 4 | 3 |
| 10595 | | LEAR | 04 | 22 | 0028 | S07 | W01 | 04 | 21.9 | | B | BXO | 40 | 10 | 8 | 2 |
| 10595 | | SVTO | 04 | 22 | 0543 | S07 | W07 | 04 | 21.7 | | B | CSO | 20 | 2 | 2 | 3 |
| 10595 | | KAND | 04 | 22 | 0655 | S09 | W02 | 04 | 22.1 | | | BXO | | 10 | 9 | 4 |
| 10595 | | HOLL | 04 | 22 | 1424 | S07 | W08 | 04 | 22.0 | | B | CAO | 40 | 7 | 8 | 4 |
| 10595 | 32066 | MWIL | 04 | 22 | 1430 | S07 | W08 | 04 | 22.0 | 3 | (B ) | | | | | |
| 10595 | | LEAR | 04 | 23 | 0055 | S08 | W15 | 04 | 21.9 | | B | CSO | 40 | 7 | 6 | 1 |
| 10595 | | VORO | 04 | 23 | 0118 | S05 | W16 | 04 | 21.8 | | | HAX | 5 | 2 | 2 | 2 |
| 10595 | | SVTO | 04 | 23 | 0615 | S07 | W17 | 04 | 22.0 | | B | CKO | 40 | 4 | 7 | 3 |
| 10595 | | TACH | 04 | 23 | 0638 | S08 | W15 | 04 | 22.1 | | | CAO | 59 | 4 | 10 | 3 |
| 10595 | | KAND | 04 | 23 | 0925 | S08 | W19 | 04 | 22.0 | | | CRO | | 9 | 8 | 3 |
| 10595 | | HOLL | 04 | 23 | 1505 | S07 | W22 | 04 | 22.0 | | B | CSO | 30 | 15 | 7 | 3 |
| 10595 | | LEAR | 04 | 24 | 0221 | S08 | W27 | 04 | 22.1 | | B | BXO | 40 | 11 | 4 | 3 |
| 10595 | | VORO | 04 | 24 | 0303 | S05 | W27 | 04 | 22.1 | | | BSX | 4 | 2 | 3 | 2 |
| 10595 | | TACH | 04 | 24 | 0549 | S05 | W29 | 04 | 22.1 | | | BXO | 2 | 2 | 3 | 3 |
| 10595 | | KAND | 04 | 24 | 1000 | S07 | W32 | 04 | 22.0 | | | BXO | | 2 | 4 | 2 |
| 10595A | | HOLL | 04 | 23 | 1505 | S15 | W07 | 04 | 23.1 | | A | HSX | 20 | 2 | 3 | 3 |
| 10595A | | LEAR | 04 | 24 | 0221 | S15 | W11 | 04 | 23.3 | | B | BXO | 10 | 4 | 6 | 3 |
| 10595A | | TACH | 04 | 24 | 0549 | S14 | W15 | 04 | 23.1 | | | AXX | 2 | 1 | 1 | 3 |
| 10595A | | LEAR | 04 | 25 | 0020 | S15 | W23 | 04 | 23.3 | | A | AXX | | 1 | | 3 |
| 10596 | | LEAR | 04 | 18 | 0005 | S08 | E73 | 04 | 23.5 | | B | DSO | 140 | 5 | 9 | 3 |
| 10596 | | VORO | 04 | 18 | 0155 | S08 | E70 | 04 | 23.3 | | | DAI | 147 | 4 | 6 | 3 |
| 10596 | | KAND | 04 | 18 | 1205 | S09 | E65 | 04 | 23.4 | | | DSO | | 3 | 8 | 2 |
| 10596 | | HOLL | 04 | 18 | 1550 | S09 | E64 | 04 | 23.5 | | B | EKI | 180 | 13 | 9 | 2 |
| 10596 | | LEAR | 04 | 19 | 0350 | S08 | E56 | 04 | 23.3 | | B | DAO | 200 | 10 | 8 | 1 |
| 10596 | | SVTO | 04 | 19 | 1335 | S11 | E48 | 04 | 23.2 | | B | DAO | 250 | 10 | 9 | 2 |
| 10596 | | HOLL | 04 | 19 | 1357 | S09 | E50 | 04 | 23.3 | | B | EKI | 330 | 29 | 11 | 4 |
| 10596 | 32068 | MWIL | 04 | 19 | 1730 | S07 | E48 | 04 | 23.3 | 5 | (BG) | | | | | |
| 10596 | | VORO | 04 | 19 | 2307 | S08 | E44 | 04 | 23.3 | | | DKI | 509 | 15 | 7 | 3 |
| 10596 | | LEAR | 04 | 20 | 0201 | S08 | E43 | 04 | 23.3 | | BG | DAO | 290 | 25 | 10 | 2 |
| 10596 | | SVTO | 04 | 20 | 0502 | S09 | E42 | 04 | 23.4 | | BG | DKO | 340 | 9 | 10 | 3 |
| 10596 | | TACH | 04 | 20 | 0523 | S07 | E40 | 04 | 23.2 | | | DSI | 470 | 6 | 7 | 3 |
| 10596 | | KAND | 04 | 20 | 0855 | S08 | E39 | 04 | 23.3 | | | EAO | | 12 | 11 | 2 |
| 10596 | 32068 | MWIL | 04 | 20 | 1430 | S07 | E37 | 04 | 23.4 | 5 | (B ) | | | | | |
| 10596 | | HOLL | 04 | 20 | 1450 | S09 | E36 | 04 | 23.3 | | B | EKI | 360 | 27 | 11 | 3 |
| 10596 | | VORO | 04 | 20 | 2249 | S08 | E32 | 04 | 23.3 | | | DHI | 485 | 14 | 8 | 3 |
| 10596 | | LEAR | 04 | 21 | 0050 | S08 | E30 | 04 | 23.3 | | BGD | DAI | 320 | 20 | 10 | 2 |
| 10596 | | SVTO | 04 | 21 | 1025 | S06 | E26 | 04 | 23.4 | | B | EHI | 360 | 18 | 12 | 3 |
| 10596 | | HOLL | 04 | 21 | 1335 | S07 | E24 | 04 | 23.4 | | B | EAI | 330 | 27 | 12 | 4 |

# S U N S P O T  G R O U P S
## (Ordered by Central Meridian Passage Date)

## APRIL 2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10596 | 32068 | MWIL | 04 | 21 | 1430 | S07 | E22 | 04 | 23.2 | 5 | (BG) | | | | | |
| 10596 | | VORO | 04 | 21 | 2241 | S08 | E18 | 04 | 23.3 | | | DKI | 417 | 9 | 9 | 3 |
| 10596 | | LEAR | 04 | 22 | 0028 | S08 | E17 | 04 | 23.3 | | BG | CKO | 380 | 27 | 12 | 2 |
| 10596 | | SVTO | 04 | 22 | 0543 | S08 | E14 | 04 | 23.3 | | B | EKO | 400 | 13 | 13 | 3 |
| 10596 | | KAND | 04 | 22 | 0655 | S09 | E14 | 04 | 23.3 | | | CSO | | 20 | 12 | 4 |
| 10596 | | HOLL | 04 | 22 | 1424 | S08 | E09 | 04 | 23.3 | | BG | EKI | 400 | 30 | 13 | 4 |
| 10596 | 32068 | MWIL | 04 | 22 | 1430 | S08 | E06 | 04 | 23.0 | 5 | (BG) | | | | | |
| 10596 | | LEAR | 04 | 23 | 0055 | S08 | E06 | 04 | 23.5 | | BG | EKO | 320 | 18 | 12 | 1 |
| 10596 | | VORO | 04 | 23 | 0118 | S07 | E01 | 04 | 23.1 | | | HKX | 233 | 5 | 4 | 2 |
| 10596 | | SVTO | 04 | 23 | 0615 | S08 | W01 | 04 | 23.2 | | B | DRO | 310 | 16 | 10 | 3 |
| 10596 | | TACH | 04 | 23 | 0638 | S08 | E00 | 04 | 23.3 | | | DAI | 370 | 7 | 7 | 3 |
| 10596 | | KAND | 04 | 23 | 0925 | S09 | W01 | 04 | 23.3 | | | CKO | | 12 | 12 | 3 |
| 10596 | | HOLL | 04 | 23 | 1505 | S08 | W05 | 04 | 23.2 | | B | EKO | 340 | 24 | 12 | 3 |
| 10596 | | LEAR | 04 | 24 | 0221 | S09 | W10 | 04 | 23.3 | | BG | CSO | 250 | 18 | 10 | 3 |
| 10596 | | VORO | 04 | 24 | 0303 | S08 | W11 | 04 | 23.3 | | | HKX | 172 | 2 | 7 | 2 |
| 10596 | | TACH | 04 | 24 | 0549 | S08 | W12 | 04 | 23.3 | | | CAO | 273 | 3 | 8 | 3 |
| 10596 | | KAND | 04 | 24 | 1000 | S09 | W17 | 04 | 23.1 | | | CKO | | 5 | 11 | 2 |
| 10596 | | HOLL | 04 | 24 | 1500 | S09 | W18 | 04 | 23.3 | | B | EKO | 220 | 12 | 11 | 3 |
| 10596 | | LEAR | 04 | 25 | 0020 | S08 | W23 | 04 | 23.3 | | B | CSO | 220 | 6 | 11 | 3 |
| 10596 | | VORO | 04 | 25 | 0350 | S08 | W29 | 04 | 23.0 | | | HKX | 253 | 2 | | 3 |
| 10596 | | KAND | 04 | 25 | 1150 | S09 | W30 | 04 | 23.2 | | | CAO | | 9 | 10 | 3 |
| 10596 | 32068 | MWIL | 04 | 25 | 1430 | S08 | W34 | 04 | 23.0 | 6 | (BP) | | | | | |
| 10596 | | HOLL | 04 | 25 | 1450 | S08 | W32 | 04 | 23.2 | | B | EKO | 240 | 9 | 11 | 3 |
| 10596 | | VORO | 04 | 25 | 2209 | S08 | W37 | 04 | 23.1 | | | HKX | 267 | 4 | 4 | 3 |
| 10596 | | LEAR | 04 | 26 | 0044 | S08 | W38 | 04 | 23.2 | | B | CKO | 230 | 4 | 6 | 3 |
| 10596 | | KAND | 04 | 26 | 0655 | S09 | W39 | 04 | 23.4 | | | HA | | 2 | 3 | 3 |
| 10596 | | SVTO | 04 | 26 | 0706 | S08 | W44 | 04 | 23.0 | | B | CKO | 180 | 2 | 4 | 2 |
| 10596 | 32068 | MWIL | 04 | 26 | 1430 | S08 | W48 | 04 | 23.0 | 5 | (AP) | | | | | |
| 10596 | | HOLL | 04 | 26 | 1550 | S08 | W50 | 04 | 22.9 | | A | HKX | 300 | 2 | 4 | 2 |
| 10596 | | VORO | 04 | 26 | 2240 | S08 | W53 | 04 | 23.0 | | | HKX | 230 | 2 | | 3 |
| 10596 | | LEAR | 04 | 27 | 0130 | S09 | W56 | 04 | 22.8 | | B | CAO | 140 | 4 | 6 | 1 |
| 10596 | | TACH | 04 | 27 | 0516 | S08 | W55 | 04 | 23.1 | | | HA | 273 | 2 | 3 | 3 |
| 10596 | | SVTO | 04 | 27 | 0535 | S08 | W57 | 04 | 22.9 | | A | HAX | 190 | 1 | 4 | 2 |
| 10596 | 32068 | MWIL | 04 | 27 | 1430 | S08 | W62 | 04 | 22.9 | 5 | (BP) | | | | | |
| 10596 | | LEAR | 04 | 28 | 0113 | S08 | W67 | 04 | 23.0 | | B | DSO | 210 | 2 | 4 | 4 |
| 10596 | | TACH | 04 | 28 | 0700 | S09 | W72 | 04 | 22.9 | | | HR | 105 | 2 | 2 | 4 |
| 10596 | | SVTO | 04 | 28 | 0710 | S07 | W70 | 04 | 23.0 | | B | CAX | 180 | 2 | 6 | 3 |
| 10596 | 32068 | MWIL | 04 | 28 | 1430 | S08 | W75 | 04 | 23.0 | 5 | (AP) | | | | | |
| 10596 | | VORO | 04 | 28 | 2344 | S08 | W78 | 04 | 23.1 | | | HKX | 201 | 1 | | 3 |
| 10596 | | LEAR | 04 | 29 | 0137 | S08 | W80 | 04 | 23.1 | | A | HSX | 180 | 1 | 4 | 3 |
| 10596 | | SVTO | 04 | 29 | 0745 | S06 | W85 | 04 | 23.0 | | A | HSX | 30 | 1 | 3 | 2 |
| 10596A | | KAND | 04 | 25 | 1150 | N14 | E15 | 04 | 26.6 | | | BXO | | 3 | 5 | 3 |
| 10596A | 32071 | MWIL | 04 | 25 | 1430 | N15 | E13 | 04 | 26.6 | 3 | (AP) | | | | | |
| 10596A | | HOLL | 04 | 25 | 1450 | N15 | E14 | 04 | 26.7 | | A | AXX | | 1 | 1 | 3 |
| 10596A | | KAND | 04 | 26 | 0655 | N17 | E03 | 04 | 26.5 | | | BXO | | 2 | 5 | 3 |
| 10596A | | SVTO | 04 | 26 | 0706 | N18 | E03 | 04 | 26.5 | | B | CSO | 20 | 2 | 2 | 2 |
| 10596A | 32071 | MWIL | 04 | 26 | 1430 | N18 | W01 | 04 | 26.5 | 4 | (B ) | | | | | |
| 10596A | | HOLL | 04 | 26 | 1550 | N17 | W02 | 04 | 26.5 | | B | DSO | 30 | 2 | 3 | 2 |
| 10602 | | LEAR | 04 | 29 | 0137 | S14 | W28 | 04 | 26.9 | | A | AXX | 10 | 1 | 1 | 3 |
| 10602 | | KAND | 04 | 29 | 0845 | S15 | W31 | 04 | 27.0 | | | AX | | 1 | | 3 |
| 10602 | 32073 | MWIL | 04 | 29 | 1730 | S14 | W36 | 04 | 27.0 | 4 | (BG) | | | | | |
| 10602 | | VORO | 04 | 30 | 0457 | S14 | W44 | 04 | 26.9 | | | CRO | 40 | 6 | 3 | 3 |
| 10602 | | LEAR | 04 | 30 | 0547 | S13 | W43 | 04 | 27.0 | | B | BXI | 50 | 9 | 5 | 3 |
| 10602 | | KAND | 04 | 30 | 0550 | S16 | W43 | 04 | 27.0 | | | CSO | | 7 | 5 | 4 |
| 10602 | | SVTO | 04 | 30 | 0810 | S14 | W45 | 04 | 26.9 | | B | DSO | 60 | 5 | 5 | 3 |
| 10602 | 32073 | MWIL | 04 | 30 | 1430 | S14 | W48 | 04 | 27.0 | 4 | (B ) | | | | | |
| 10602 | | VORO | 04 | 30 | 2235 | S14 | W53 | 04 | 26.9 | | | CRO | 30 | 6 | 5 | 3 |
| 10602 | | LEAR | 05 | 01 | 0215 | S13 | W55 | 04 | 27.0 | | B | DSO | 60 | 6 | 7 | 1 |
| 10602 | | SVTO | 05 | 01 | 0712 | S13 | W58 | 04 | 27.0 | | B | BXO | 20 | 6 | 7 | 2 |
| 10602 | | KAND | 05 | 01 | 1010 | S14 | W60 | 04 | 27.0 | | | BXO | | 3 | 7 | 2 |
| 10602 | 32073 | MWIL | 05 | 01 | 1430 | S14 | W62 | 04 | 27.0 | 4 | (B ) | | | | | |
| 10599 | | LEAR | 04 | 24 | 0221 | N18 | E53 | 04 | 28.1 | | B | BXO | 20 | 2 | 4 | 3 |
| 10599 | | TACH | 04 | 24 | 0549 | N15 | E51 | 04 | 28.1 | | | CAO | 65 | 3 | 3 | 3 |
| 10599 | | KAND | 04 | 24 | 1000 | N14 | E49 | 04 | 28.1 | | | CSO | | 6 | 6 | 2 |
| 10599 | | HOLL | 04 | 24 | 1500 | N14 | E45 | 04 | 28.0 | | B | DAI | 120 | 8 | 6 | 3 |
| 10599 | | LEAR | 04 | 25 | 0020 | N16 | E42 | 04 | 28.2 | | BD | DAI | 140 | 16 | 7 | 3 |

# S U N S P O T  G R O U P S
## (Ordered by Central Meridian Passage Date)

## APRIL 2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10599 | | VORO | 04 | 25 | 0350 | N15 | E39 | 04 | 28.1 | | | DAI | 205 | 11 | 6 | 3 |
| 10599 | | KAND | 04 | 25 | 1150 | N14 | E35 | 04 | 28.1 | | | DAO | | 11 | 8 | 3 |
| 10599 | 32072 | MWIL | 04 | 25 | 1430 | N15 | E34 | 04 | 28.2 | 5 | (B ) | | | | | |
| 10599 | | HOLL | 04 | 25 | 1450 | N15 | E32 | 04 | 28.0 | | B | DAC | 200 | 17 | 9 | 3 |
| 10599 | | VORO | 04 | 25 | 2209 | N14 | E28 | 04 | 28.0 | | | DAI | 235 | 12 | 7 | 3 |
| 10599 | | LEAR | 04 | 26 | 0044 | N16 | E27 | 04 | 28.1 | | BG | DAO | 260 | 15 | 9 | 3 |
| 10599 | | KAND | 04 | 26 | 0655 | N14 | E23 | 04 | 28.0 | | | DAO | | 8 | 8 | 3 |
| 10599 | | SVTO | 04 | 26 | 0706 | N15 | E23 | 04 | 28.0 | | B | DAO | 170 | 10 | 9 | 2 |
| 10599 | 32072 | MWIL | 04 | 26 | 1430 | N15 | E19 | 04 | 28.0 | 5 | (BG) | | | | | |
| 10599 | | HOLL | 04 | 26 | 1550 | N15 | E18 | 04 | 28.0 | | B | DAI | 140 | 10 | 8 | 2 |
| 10599 | | VORO | 04 | 26 | 2240 | N15 | E15 | 04 | 28.1 | | | DAI | 166 | 9 | 8 | 3 |
| 10599 | | LEAR | 04 | 27 | 0130 | N14 | E13 | 04 | 28.0 | | BG | DAO | 110 | 7 | 9 | 1 |
| 10599 | | TACH | 04 | 27 | 0516 | N14 | E12 | 04 | 28.1 | | | DAO | 196 | 4 | 8 | 3 |
| 10599 | | SVTO | 04 | 27 | 0535 | N14 | E12 | 04 | 28.1 | | B | DSO | 160 | 7 | 10 | 2 |
| 10599 | 32072 | MWIL | 04 | 27 | 1430 | N14 | E06 | 04 | 28.0 | 5 | (B ) | | | | | |
| 10599 | | LEAR | 04 | 28 | 0113 | N15 | E01 | 04 | 28.1 | | B | CAO | 70 | 13 | 9 | 4 |
| 10599 | | TACH | 04 | 28 | 0700 | N14 | W03 | 04 | 28.1 | | | CAO | 60 | 5 | 7 | 4 |
| 10599 | | SVTO | 04 | 28 | 0710 | N15 | W03 | 04 | 28.1 | | B | DSO | 110 | 7 | 12 | 3 |
| 10599 | 32072 | MWIL | 04 | 28 | 1430 | N16 | W08 | 04 | 28.0 | 5 | (B ) | | | | | |
| 10599 | | VORO | 04 | 28 | 2344 | N15 | W10 | 04 | 28.2 | | | DAI | 90 | 4 | 8 | 3 |
| 10599 | | LEAR | 04 | 29 | 0137 | N16 | W13 | 04 | 28.1 | | B | CAO | 80 | 4 | 8 | 3 |
| 10599 | | SVTO | 04 | 29 | 0745 | N17 | W19 | 04 | 27.9 | | A | HAX | 70 | 1 | 3 | 2 |
| 10599 | | KAND | 04 | 29 | 0845 | N14 | W21 | 04 | 27.8 | | | HA | | 3 | 2 | 3 |
| 10599 | 32072 | MWIL | 04 | 29 | 1730 | N17 | W22 | 04 | 28.0 | 5 | (AP) | | | | | |
| 10599 | | VORO | 04 | 30 | 0457 | N16 | W30 | 04 | 27.9 | | | HAX | 24 | 1 | | 3 |
| 10599 | | LEAR | 04 | 30 | 0547 | N17 | W31 | 04 | 27.9 | | A | HAX | 70 | 4 | 2 | 3 |
| 10599 | | KAND | 04 | 30 | 0550 | N16 | W32 | 04 | 27.8 | | | HS | | 1 | 1 | 4 |
| 10599 | | SVTO | 04 | 30 | 0810 | N17 | W33 | 04 | 27.8 | | B | CAO | 20 | 2 | 2 | 3 |
| 10599 | 32072 | MWIL | 04 | 30 | 1430 | N16 | W36 | 04 | 27.9 | 5 | (AP) | | | | | |
| 10599 | | VORO | 04 | 30 | 2235 | N16 | W40 | 04 | 27.9 | | | HAX | 11 | 1 | | 3 |
| 10599 | | LEAR | 05 | 01 | 0215 | N17 | W43 | 04 | 27.9 | | B | CAO | 40 | 2 | 2 | 1 |
| 10599 | | SVTO | 05 | 01 | 0712 | N17 | W45 | 04 | 28.0 | | B | CSO | 30 | 4 | 4 | 2 |
| 10599 | | KAND | 05 | 01 | 1010 | N16 | W46 | 04 | 28.0 | | | AX | | 1 | 1 | 2 |
| 10599 | 32072 | MWIL | 05 | 01 | 1430 | N16 | W49 | 04 | 28.0 | 4 | (AP) | | | | | |
| 10603 | | SVTO | 05 | 01 | 0712 | S15 | W28 | 04 | 29.3 | | B | CSO | 20 | 6 | 3 | 2 |
| 10603 | | KAND | 05 | 01 | 1010 | S16 | W30 | 04 | 29.2 | | | BXO | | 5 | 4 | 2 |
| 10603 | 32075 | MWIL | 05 | 01 | 1430 | S15 | W33 | 04 | 29.2 | 4 | (B ) | | | | | |
| 10603 | | LEAR | 05 | 02 | 0304 | S17 | W38 | 04 | 29.3 | | B | BXO | 50 | 13 | 7 | 1 |
| 10603 | | SVTO | 05 | 02 | 0717 | S16 | W41 | 04 | 29.3 | | B | DSO | 70 | 6 | 6 | 3 |
| 10603 | | KAND | 05 | 02 | 0935 | S16 | W43 | 04 | 29.2 | | | BXO | | 4 | 6 | 2 |
| 10603 | 32075 | MWIL | 05 | 02 | 1430 | S15 | W47 | 04 | 29.1 | 4 | (B ) | | | | | |
| 10603 | | LEAR | 05 | 03 | 0045 | S16 | W51 | 04 | 29.3 | | B | BXO | 50 | 6 | 7 | 3 |
| 10603 | | SVTO | 05 | 03 | 0655 | S15 | W55 | 04 | 29.2 | | B | BXO | 30 | 4 | 7 | 3 |
| 10603 | | KAND | 05 | 03 | 1110 | S17 | W57 | 04 | 29.2 | | | BXO | | 6 | 8 | 3 |
| 10603 | 32075 | MWIL | 05 | 03 | 1430 | S16 | W59 | 04 | 29.2 | 4 | (B ) | | | | | |
| 10603 | | LEAR | 05 | 04 | 0142 | S16 | W66 | 04 | 29.2 | | B | BXO | 10 | 2 | 6 | 3 |
| 10601 | 32074 | MWIL | 04 | 29 | 1730 | S09 | W03 | 04 | 29.5 | 4 | (AP) | | | | | |
| 10601 | | VORO | 04 | 30 | 0457 | S08 | W10 | 04 | 29.4 | | | BRX | 5 | 2 | 1 | 3 |
| 10601 | | LEAR | 04 | 30 | 0547 | S09 | W09 | 04 | 29.6 | | B | BXO | 20 | 7 | 5 | 3 |
| 10601 | | KAND | 04 | 30 | 0550 | S10 | W12 | 04 | 29.3 | | | AX | | 3 | 1 | 4 |
| 10601 | | SVTO | 04 | 30 | 0810 | S09 | W13 | 04 | 29.4 | | B | BXO | 10 | 6 | 4 | 3 |
| 10601 | 32074 | MWIL | 04 | 30 | 1430 | S09 | W15 | 04 | 29.5 | 4 | (B ) | | | | | |
| 10601 | | VORO | 04 | 30 | 2235 | S09 | W20 | 04 | 29.4 | | | DAO | 44 | 9 | 5 | 3 |
| 10601 | | LEAR | 05 | 01 | 0215 | S10 | W23 | 04 | 29.5 | | B | CAO | 80 | 10 | 6 | 1 |
| 10601 | | SVTO | 05 | 01 | 0712 | S09 | W26 | 04 | 29.4 | | B | DSO | 100 | 10 | 7 | 2 |
| 10601 | | KAND | 05 | 01 | 1010 | S11 | W27 | 04 | 29.5 | | | DSI | | 18 | 7 | 2 |
| 10601 | 32074 | MWIL | 05 | 01 | 1430 | S10 | W30 | 04 | 29.4 | 5 | (B ) | | | | | |
| 10601 | | LEAR | 05 | 02 | 0304 | S12 | W36 | 04 | 29.5 | | BG | DKI | 310 | 20 | 10 | 1 |
| 10601 | | SVTO | 05 | 02 | 0717 | S10 | W38 | 04 | 29.5 | | B | DAO | 250 | 10 | 8 | 3 |
| 10601 | | KAND | 05 | 02 | 0935 | S11 | W40 | 04 | 29.5 | | | DAO | | 8 | 9 | 2 |
| 10601 | 32074 | MWIL | 05 | 02 | 1430 | S10 | W44 | 04 | 29.4 | 5 | (B ) | | | | | |
| 10601 | | LEAR | 05 | 03 | 0045 | S10 | W50 | 04 | 29.4 | | B | DSO | 170 | 16 | 9 | 3 |
| 10601 | | SVTO | 05 | 03 | 0655 | S09 | W52 | 04 | 29.5 | | B | ESO | 220 | 11 | 11 | 3 |
| 10601 | | KAND | 05 | 03 | 1110 | S12 | W55 | 04 | 29.4 | | | DSO | | 10 | 10 | 3 |
| 10601 | 32074 | MWIL | 05 | 03 | 1430 | S10 | W57 | 04 | 29.4 | 5 | (BG) | | | | | |
| 10601 | | VORO | 05 | 03 | 2229 | S10 | W61 | 04 | 29.4 | | | DAI | 245 | 8 | 8 | 3 |
| 10601 | | LEAR | 05 | 04 | 0142 | S10 | W65 | 04 | 29.3 | | B | EAO | 220 | 11 | 11 | 3 |

# S U N S P O T  G R O U P S
## (Ordered by Central Meridian Passage Date)

## APRIL 2004

| NOAA/ USAF Group | Mt Wilson Group | Sta | Observation Mo | Day | Time (UT) | Lat | CMD | CMP Mo | Day | Max H | Mag Class | Spot Class | Corrected Area (10-6 Hemi) | Spot Count | Long. Extent (Deg) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10601 | | KAND | 05 | 04 | 0610 | S10 | W66 | 04 | 29.4 | | | EAO | | 11 | 11 | 3 |
| 10601 | | SVTO | 05 | 04 | 1105 | S08 | W70 | 04 | 29.3 | | B | ESO | 120 | 8 | 11 | 2 |
| 10601 | 32074 | MWIL | 05 | 04 | 1430 | S10 | W75 | 04 | 29.1 | 5 | (B ) | | | | | |
| 10601 | | VORO | 05 | 04 | 2308 | S10 | W74 | 04 | 29.5 | | | DAI | 110 | 7 | 10 | 3 |
| 10601 | | LEAR | 05 | 05 | 0137 | S09 | W77 | 04 | 29.4 | | B | CSO | 150 | 2 | 10 | 3 |
| 10601 | | KAND | 05 | 05 | 0755 | S10 | W77 | 04 | 29.6 | | | HA | | 1 | 2 | 3 |
| 10601 | 32074 | MWIL | 05 | 05 | 1430 | S10 | W80 | 04 | 29.7 | 4 | (AF) | | | | | |
| 10599B | | LEAR | 04 | 30 | 0547 | S12 | E01 | 04 | 30.3 | | B | BXO | 10 | 2 | 2 | 3 |
| 10599C | 32077 | MWIL | 05 | 02 | 1430 | N01 | W25 | 04 | 30.7 | 3 | (B ) | | | | | |

Stations reporting:

HOLL = Holloman
KAND = Kandilli
LEAR = Learmonth
MWIL = Mt. Wilson
PALE = Palehua
RAMY = Ramey
SVTO = San Vito
TACH = Tashkent
VORO = Voroshilov