



# IARU HF Championship

## 2013 Results

By Nate Moreschi, N4YDU

### *Good or bad conditions – contesters are here to play*

Heading into the contest on July 13th the high bands were showing occasional signs of hope, but unfortunately that was not the case as the starting bell rang. Regardless, contesters toughed it out and made the best of conditions. That led to some tough decisions for all-band participants—in the end operators who showed the patience to collect multipliers and higher-point QSOs often prevailed.

The less than optimal propagation didn't keep the crowds down as 4035 total logs were submitted from 121 different DXCC entities. That's just 19 logs shy of the record-setting mark from 2012.

As for records, you may have already guessed that given the struggle on the high bands there weren't many new records set this year — in fact, just two. On the world stage, P3N set the new Multioperator-Single Transmitter record from Cyprus with 9.5M points. In Single-Operator, QRP, Mixed Mode for the U.S. and Canada, Steve, KØOU, fashioned a score of 222K from 671 contacts and 121 multipliers to best the previous record of 187K set by NØKE in 2008.



***Al Dewey (KØAD) put in a full effort and finished second overall in the W/VE Mixed-Mode, Low Power Category. He was first overall in the U.S. from his Minnesota QTH. (Photo courtesy of KØAD)***

### **W/VE Multioperator-Single Transmitter (MS)**

After finishing fourth in 2012, the crew at K8AZ galloped to the top spot in the MS category with 1.526 million points. Tom's crew put up big numbers on 20 meters with 951 contacts and 75 mults to beat the group at both VE3UTT and K2LE. VE3UTT tallied 782/71 on 20 meters while K2LE pocketed 642/77.

#### **Top Ten, Multioperator, US and Canada**

|        |           |
|--------|-----------|
| K8AZ   | 1,526,844 |
| W1SJ   | 1,348,235 |
| K1BG   | 1,308,124 |
| K1ZD   | 1,291,636 |
| VE3UTT | 1,250,238 |
| K1GQ   | 1,170,178 |
| W1UJ   | 1,163,526 |
| K2LE   | 1,135,717 |
| N3AD   | 1,101,825 |
| W7RN   | 1,068,617 |

The IARU HF Championship is a great opportunity to try out a team effort, as noted by Brent, WR5O. *"I have been trying to build a team for a while and it is finally starting to come together. Two of us are seasoned and the rest are rookies but they learned quickly and had a great time. Thanks to Lloyd, AI5H; Rick, KB5KYJ; Lori, KF5QKR; and Rendy, KF5QJC, for being a great team. Here is to many more together."* Brent's Multioperator squad made 878 QSOs for about 175K points from West Texas..

### **W/VE Single-Operator (SO), Mixed Mode**

Last year, Rob, VE3AT, earned a hard-fought triumph in Single-Operator (SO), Mixed Mode, High Power and repeated with a win in 2013. Rob's score of 2.24M was enough to hold off second-place and top USA station KQ2M's 1.86M. So what was the difference? Rob finished with 542 more contacts and 14 additional multipliers to seal the deal. Twenty meters was his big band with 1245 contacts.

VE3BR dominated the Low Power section with 528K to take top W/VE honors while KØAD was second with 255K and W3KB was third with 239K. Despite the poor conditions, KØOU toughed it out from Missouri, focusing on 20 meters to win the Mixed QRP category for W/VE. His 222K is rather impressive when considering it would have placed him in the Low Power top five.

## Top Ten, Single-Operator, US and Canada

### Single-Operator, Mixed Mode, QRP

|        |         |
|--------|---------|
| KØOU   | 222,277 |
| N1TM   | 60,312  |
| KT8K   | 56,480  |
| W1MR   | 55,930  |
| KB1HNZ | 42,944  |
| KU4A   | 27,873  |
| AF9J   | 3,410   |
| W4TTY  | 868     |

### Single-Operator, Mixed Mode, Low Power

|        |         |
|--------|---------|
| VE3BR  | 528,090 |
| KØAD   | 255,789 |
| W3KB   | 239,121 |
| NWØM   | 209,440 |
| KB9OWD | 208,608 |
| VE3IAE | 190,365 |
| NN6CH  | 177,540 |
| K8GT   | 160,072 |
| VE4YU  | 150,480 |
| WA6FGV | 114,750 |

### Single-Operator, Mixed Mode, High Power

|             |           |
|-------------|-----------|
| VE3AT       | 2,247,705 |
| KQ2M        | 1,867,323 |
| K6XX        | 1,646,052 |
| K7RL        | 1,613,772 |
| K3ZO        | 1,405,680 |
| WØEWD @NØNI | 1,196,902 |
| K3WW        | 1,167,088 |
| K9NW        | 1,116,585 |
| K4BAI       | 1,024,976 |
| K4AB        | 966,868   |

### Single-Operator, Phone Only, QRP

|                  |        |
|------------------|--------|
| W6QU (W8QZA, op) | 52,487 |
| NT4TS            | 24,500 |
| N4ZAK            | 5,181  |
| VA3VF            | 4,592  |
| WBØIWG           | 4,224  |
| N5HMH            | 2,885  |
| KK7VL            | 1,635  |
| AB3RW            | 1,000  |
| KC2QPP           | 3      |

### Single-Operator, Phone Only, Low Power

|                  |         |
|------------------|---------|
| N1UR             | 715,040 |
| WB4OMM           | 179,524 |
| VE1WOW (K1WO,op) | 121,793 |
| N7MZW            | 101,838 |
| W5GFI            | 99,960  |
| K6GHA            | 94,909  |
| K8PGJ            | 79,488  |
| KA2KON           | 50,562  |
| HI3K             | 45,288  |
| K1KNQ            | 42,966  |

### Single-Operator, Phone Only, High Power

|        |           |
|--------|-----------|
| W7WA   | 1,474,070 |
| K5TR   | 1,368,324 |
| W4SVO  | 970,640   |
| WA5OYU | 478,519   |
| K5ER   | 419,975   |
| N5MV   | 379,344   |
| KØRH   | 248,744   |
| AD5XD  | 236,670   |
| K1PLX  | 211,692   |
| N4MM   | 149,112   |

### Single-Operator, CW Only, QRP

|        |         |
|--------|---------|
| K1IMI  | 228,161 |
| K8CN   | 84,108  |
| K3TW   | 53,956  |
| VE3MGY | 50,138  |
| K4MF   | 46,314  |
| K7HBN  | 29,344  |
| AI9K   | 20,900  |
| AA1CA  | 20,412  |
| VA3RKM | 20,280  |
| VE2KOT | 17,370  |

### Single-Operator, CW Only, Low Power

|                  |         |
|------------------|---------|
| VE3DZ            | 552,972 |
| WJ9B             | 504,974 |
| W7YAQ            | 498,400 |
| KV8Q (W8ERD, op) | 487,105 |
| N5AN             | 452,160 |
| KU8E             | 353,457 |
| WA1FCN           | 341,055 |
| W1NN             | 331,484 |
| NA8V             | 329,666 |
| N2GA             | 316,276 |

### Single-Operator, CW Only, High Power

|                 |           |
|-----------------|-----------|
| AA3B            | 1,701,083 |
| W9RE            | 1,495,494 |
| WXØB (AD5Q, op) | 1,453,921 |
| KØRF (WØUA, op) | 1,231,601 |
| K5OT (@K5NA)    | 1,215,984 |
| K4RO            | 1,204,645 |
| K5KG            | 1,168,307 |
| K9CT            | 1,012,420 |
| KZ5D            | 916,050   |
| K2SSS           | 862,040   |

## W/VE Single-Operator, CW

Given the tough conditions, CW entrants probably chose the easier of the two modes for the event. Taking top honors in the High Power category was AA3B from Pennsylvania. Certainly no stranger to the top of the leaderboard, Bud really enjoyed working the WRTC-2014 test stations. His 1.7M edged out Midwest power W9RE who finished with 1.495M. Yuri, VE3DZ, frequently travels for major contests but elected to stay home and try out his station at a new QTH near Niagara Falls. Needless to say it paid off. He finished first in the CW, Low Power Category with a score of 552K, followed by 504K from Will, WJ9B.

Bert, N4CW, can be found in North Carolina during the winter months but during the summer he heads to Maine. Signing K1IMI, Bert navigated his KX3 to a QRP CW victory for the 2013 IARU event with 228K.

## W/VE Single-Operator, Phone

Dan, W7WA, and George, K5TR, fought a pretty close duel in the High Power, Phone category. In the end, it was W7WA edging K5TR by a little more than seven percent (1.4M vs. 1.3M). Dan logged 2086 QSOs from Washington (122 less than George did from his Texas QTH) but collected 22 more mults for the final margin of victory.



*Focusing on a single mode – phone – Ed, N1UR, won the W/VE Single-Operator, Phone-Only, Low Power competition. (Photo courtesy of N1UR)*

Ed, N1UR, has made a big name for himself in the Low Power arena. Ed's operating ability, coupled with his station building expertise, has resulted in many wins for him from Vermont. The IARU contest is a Phone-only event for Ed. After setting the W/VE record for LP Phone in 2012, he followed up with another win in 2013 and a final score of 715K. Ed is a big CW operator but prefers to focus on one mode at time when contesting – the strategy is obviously paying off for him. Ed observed, "This is always an interesting mix of everyone-works-everyone (with) the zone and HQ mults strategy being uniquely different."

QRP and Phone can really test one's patience. Braving the category and winning was W8QZA who operated from W6QU in San Diego to score 52.4K points.

## World Multioperator-Single Transmitter

Cyprus is apparently the place to be for the IARU contest when it comes to going after the world MS title. In 2012, P33W set a new world record with 9.1M points. The group followed up with an impressive 8.77M in 2013 but finished second to P3N's 9.5 million for a new world MS benchmark.

### Top Ten, Multioperator, DX

|       |           |
|-------|-----------|
| P3N   | 9,500,568 |
| P33W  | 8,773,776 |
| UZ2M  | 4,212,170 |
| IR4X  | 3,678,584 |
| OHØX  | 3,361,764 |
| HG6N  | 3,157,632 |
| HG7T  | 2,506,518 |
| ED3X  | 2,390,491 |
| HA3ØS | 2,344,528 |
| RG3K  | 2,254,880 |

## World Single-Operator, Mixed Mode

On the world stage in the popular Mixed category, it was RG9A scaring the 4M mark for first place. His total of 3.88M nipped RV6LNA who drove A65BP to 3.3M. RG9A's balanced overall attack proved to make the difference. Rounding out the top three is UN9LW's 2.97M from UPØL.

In the popular Low Power race, YL3AIW made a category-best 1940 contacts and scored 1.46M for the top spot. In the QRP sector, RU5TT (UA3TW, op) took the gold with 414K points.

### Top Ten, Single-Operator, DX

#### Single Operator, Mixed Mode, QRP

|                    |         |
|--------------------|---------|
| RU5TT (UA3TW, op)  | 414,447 |
| KP4KE (NP4LW, op)  | 392,586 |
| HA5BKV (HA5NB, op) | 323,330 |
| HA5MY              | 279,744 |
| IZ8JFL             | 224,154 |
| OK7CM              | 219,674 |
| JR3RWB             | 195,624 |
| US2IZ              | 189,658 |
| 9A2EY              | 177,408 |
| YU1LM              | 161,400 |

#### Single Operator, Mixed Mode, Low Power

|                   |           |
|-------------------|-----------|
| YL3AIW            | 1,469,100 |
| RV9UP             | 1,311,234 |
| PS2T (PY2NY, op)  | 1,280,760 |
| LY7Z              | 1,258,400 |
| LY6A              | 1,254,152 |
| HC2AO             | 1,186,185 |
| R7MM              | 1,174,240 |
| RM3F (UA3DPX, op) | 1,025,050 |
| HA7GN             | 924,235   |
| UW5U              | 874,056   |

#### Single Operator, Mixed Mode, High Power

|                    |           |
|--------------------|-----------|
| RG9A               | 3,888,378 |
| A65BP (RV6LNA, op) | 3,319,614 |
| UPØL (UN9LW, op)   | 2,974,947 |
| UT5UGR             | 2,636,010 |
| YT5A (YT1AD, op)   | 1,758,834 |
| UA9MA              | 1,420,608 |
| RM2U               | 1,340,700 |
| OG6N               | 1,310,768 |
| 4O3A (YU1YV, op)   | 1,279,780 |
| PY2EX              | 1,205,443 |

#### Single Operator, Phone Only, QRP

|        |         |
|--------|---------|
| DL8LR  | 221,450 |
| HA5BGG | 141,267 |
| EA9CD  | 99,000  |
| IZ7FLP | 97,552  |
| SP2QOT | 83,707  |
| SP4LVK | 78,840  |
| HB9EGA | 64,000  |
| EA5AX  | 61,919  |
| US5IND | 58,750  |
| S57LR  | 54,600  |

### Single Operator, Phone Only, Low Power

|                   |           |
|-------------------|-----------|
| KH6LC (NH6V, op)  | 1,318,429 |
| EA8MT             | 1,258,719 |
| EI1A (ON4EI, op)  | 1,167,372 |
| ZZ2T (PY2MNL, op) | 984,906   |
| 9A0D (DK8ZZ, op)  | 868,248   |
| UX9Q (UR9QQ, op)  | 838,600   |
| HA4XH             | 828,168   |
| UZ7M (UT9MZ, op)  | 777,811   |
| IB1B (IW1QN, op)  | 770,592   |
| UV8M (UX3MR, op)  | 767,250   |

### Single Operator, Phone Only, High Power

|                  |           |
|------------------|-----------|
| ZW5B (PP5XX, op) | 3,178,539 |
| EI7M (EI3JZ, op) | 2,951,690 |
| H2T (5B4XF, op)  | 2,521,966 |
| CE3CT            | 2,215,476 |
| YT8A (YU1EA, op) | 2,138,600 |
| HG3R             | 2,043,468 |
| EA4KD            | 2,006,470 |
| ES5RW            | 1,946,516 |
| E73M             | 1,789,408 |
| RT27TT           | 1,658,370 |

### Single Operator, CW Only, QRP

|        |         |
|--------|---------|
| HA6NL  | 506,016 |
| HG3M   | 293,433 |
| DD1IM  | 233,130 |
| SM0THU | 216,845 |
| UA6AK  | 198,263 |
| RA3AN  | 189,342 |
| OK1NG  | 181,382 |
| JR4DAH | 167,508 |
| RN4HAB | 139,253 |

### Single Operator, CW Only, Low Power

|                  |           |
|------------------|-----------|
| LZ9R (LZ3YY, op) | 1,446,027 |
| RA9AP            | 1,283,076 |
| D3AA             | 1,157,760 |
| UA3RF            | 1,060,272 |
| LY5R             | 967,554   |
| SP4JCQ           | 958,403   |
| CN8KD            | 935,200   |
| DD5M (DJ0ZY, op) | 830,060   |
| S51F             | 817,362   |
| R4WDX            | 764,211   |

### Single Operator, CW Only, High Power

|                   |           |
|-------------------|-----------|
| EF8S (OH2BYS, op) | 3,729,264 |
| 6V7S              | 3,523,531 |
| UT0U (UT5UDX, op) | 2,650,641 |
| UA5C              | 2,634,126 |
| OH6LI             | 2,394,220 |
| RU9AC             | 2,244,550 |
| R3ZZ              | 2,207,148 |
| OL8M              | 2,123,736 |
| OQ5M (ON5ZO, op)  | 1,898,514 |

## World Single-Operator, CW

This turned into a two station race and in the end it was a battle of multipliers and QSO points that proved to be the difference – not total QSOs.

OH2BYS took full advantage of his trip to the Canary Islands and powered EF8S to 3.7M for top honors. Not far behind with 3.5M was 6V7S from Senegal. Interestingly enough, 6V7S logged 2903 contacts and EF8S recorded 2393. The 510-QSO deficit was overcome by a strong advantage in multipliers as EF8S prevailed with 83 (336 to 253). EF8S scored the majority of those extra multipliers on the low bands with 28

coming on 160 meters. Who says Top Band is useless in the summer?

LZ9R (LZ3YY, op) scored 1.44M for first place in the world for Low Power, while the QRP title went to HA6NL who dominated the 5 watt battlers with 506K.

## World Single-Operator, Phone

Points-per-QSO played a big role in determining the winner of the Phone HP category as ZW5B (PP5XX, op) finished first with 3.17M. While EI7M (EI3JZ, op) had more than 300 additional contacts and 25 more multipliers, the powerful Brazilian station made up for it with total QSO points.

Low Power was taken by NH6V, operating at KH6LC in Hawaii to pocket 1.3M. Not too far behind was EA8MT with 1.25M. DL8LR claimed the QRP trophy with 221K.

## Continental Leaders

Table shows Call, Score, Category and Power. For Category: A=Mixed Mode, B=Phone Only, C=CW Only, D=Multioperator. For Power, A=QRP, B=Low Power, C=High Power.

| Call                  | Score     | Category | Power |
|-----------------------|-----------|----------|-------|
| <b>Africa</b>         |           |          |       |
| EA8CQW                | 57,886    | A        | B     |
| EA8ZS                 | 112       | A        | C     |
| EA9CD                 | 99,000    | B        | A     |
| EA8MT                 | 1,258,719 | B        | B     |
| D3AA                  | 1,157,760 | C        | B     |
| EF8S (OH2BYS, op)     | 3,729,264 | C        | C     |
| ED8W (EA8DO, op)      | 649,910   | D        | C     |
| <b>Asia</b>           |           |          |       |
| JR3RWB                | 195,624   | A        | A     |
| RV9UP                 | 1,311,234 | A        | B     |
| RG9A                  | 3,888,378 | A        | C     |
| JA2MWW                | 10,472    | B        | A     |
| HZ1BW                 | 500,760   | B        | B     |
| H2T (5B4XF, op)       | 2,521,966 | B        | C     |
| JR4DAH                | 167,508   | C        | A     |
| RA9AP                 | 1,283,076 | C        | B     |
| RU9AC                 | 2,244,550 | C        | C     |
| P3N                   | 9,500,568 | D        | C     |
| <b>Europe</b>         |           |          |       |
| RU5TT (UA3TW, op)     | 414,447   | A        | A     |
| YL3AIW                | 1,469,100 | A        | B     |
| UT5UGR                | 2,636,010 | A        | C     |
| DL8LR                 | 221,450   | B        | A     |
| EI1A (ON4EI, op)      | 1,167,372 | B        | B     |
| EI7M (EI3JZ, op)      | 2,951,690 | B        | C     |
| HA6NL                 | 506,016   | C        | A     |
| LZ9R (LZ3YY, op)      | 1,446,027 | C        | B     |
| UT0U (UT5UDX, op)     | 2,650,641 | C        | C     |
| UZ2M                  | 4,212,170 | D        | C     |
| <b>North America</b>  |           |          |       |
| KP4KE (NP4LW, op)     | 392,586   | A        | A     |
| CM3DSE                | 13,872    | A        | B     |
| KL7SB                 | 94,643    | A        | C     |
| CL2PL                 | 363       | B        | A     |
| KP2/AA1BU             | 610,776   | B        | B     |
| YS1/NP3J (JA6WFM, op) | 370,656   | C        | B     |
| XE1MM                 | 108,360   | C        | C     |
| KP3Z                  | 1,704,669 | D        | C     |

### Oceania

|                  |           |   |   |
|------------------|-----------|---|---|
| YB2LSR           | 123,282   | A | B |
| VK3TDX           | 901,740   | A | C |
| KH6LC (NH6V, op) | 1,318,429 | B | B |
| WH7Z (WØCN, op)  | 375,877   | B | C |
| KH7M (KH6ZM, op) | 76,425    | C | A |
| ZL3TE (W3SE, op) | 302,940   | C | B |
| VK2IM            | 717,267   | C | C |
| ZM1A (ZL3CW, op) | 164,082   | D | C |

### South America

|                   |           |   |   |
|-------------------|-----------|---|---|
| PS2T (PY2NY, op)  | 1,280,760 | A | B |
| PY2EX             | 1,205,443 | A | C |
| LU6EVD            | 144       | B | A |
| ZZ2T (PY2MNL, op) | 984,906   | B | B |
| ZW5B (PP5XX, op)  | 3,178,539 | B | C |
| PY6TS             | 55        | C | A |
| PY4HO             | 318,384   | C | B |
| PP1CZ             | 702,615   | C | C |
| PR1T              | 2,244,200 | D | C |

In addition to W1AW/4 there was plenty of activity from NU1AW/3 (led by W3LPL). NU1AW/3 topped the W1AW/4 crew by a score of 9.1 million to 8.7 million. The W1AW crew used an online system to follow the status of all of the portable operations. It provided quite a bit of excitement for those involved.

### IARU Member Society Headquarters Stations

Headquarters and Administrative Council station scores were tabulated by the World Wide Radio Operator's Federation ([www.wwrof.org](http://www.wwrof.org)) and are listed as a courtesy to the Amateur Radio community.

| Call                | Score      |
|---------------------|------------|
| DAØHQ               | 26,011,224 |
| EFØHQ               | 25,769,500 |
| TMØHQ               | 24,434,251 |
| R3HQ                | 23,238,744 |
| OL3HQ               | 21,194,068 |
| SNØHQ               | 21,034,804 |
| GR2HQ               | 20,903,985 |
| S5ØHQ               | 19,662,008 |
| 9A28HQ              | 19,542,000 |
| IOØH                | 19,403,338 |
| YTØHQ               | 19,094,520 |
| EM5HQ               | 15,615,063 |
| YRØHQ               | 15,002,030 |
| LRØØF               | 14,968,670 |
| HGØHQ               | 14,355,550 |
| PA6HQ               | 12,445,286 |
| E7HQ                | 12,318,045 |
| LYØHQ               | 11,832,168 |
| LZ7HQ               | 11,627,916 |
| OZ1HQ               | 10,969,758 |
| HB9HQ               | 10,741,159 |
| NU1AW               | 9,127,010  |
| W1AW                | 8,762,698  |
| SXØHQ               | 8,396,658  |
| LN2HQ               | 7,532,265  |
| YL4HQ               | 7,231,432  |
| ER7HQ               | 6,970,340  |
| 8NØHQ               | 6,077,207  |
| CX1AA               | 5,695,976  |
| OH2HQ               | 5,458,153  |
| EW5HQ               | 4,727,910  |
| XR3HQ               | 4,035,060  |
| UN1HQ               | 3,989,466  |
| ZW2HQ               | 3,954,375  |
| Z3ØHQ               | 3,483,032  |
| B5HQ                | 3,398,164  |
| ES9A                | 3,315,786  |
| SK9HQ               | 3,174,125  |
| OPØHQ               | 2,662,044  |
| 7TØHQ               | 1,668,744  |
| DXØHQ               | 1,634,685  |
| T49C                | 1,394,109  |
| TC3HQ               | 1,229,472  |
| VA3RAC              | 1,223,017  |
| ZL6HQ               | 1,206,478  |
| ZF1A (ZF2AH, op)    | 902,325    |
| BMØHQ               | 792,582    |
| YEØHQ               | 769,239    |
| 4K1HQ               | 596,484    |
| XE1LM               | 593,475    |
| HK3LR               | 550,784    |
| ET3AA               | 366,685    |
| JU1HQ (JT1DA, op)   | 291,118    |
| HBØHQ               | 281,880    |
| XVØHQ               | 231,686    |
| CT1ETK              | 178,885    |
| SU1SK               | 69,325     |
| ZS9HQ               | 29,040     |
| VK5WIA (VK5CP, op)  | 16,328     |
| VR2HK               | 3,220      |
| H18RCD (H18KW, op)  | 1,755      |
| 9M4DXX (9M2CLN, op) | 84         |
| I2VGV               | 36         |



The German team at DAØHQ moved back into first place in 2013 with an exceptional effort in the IARU Headquarters Station competition. (Photo courtesy DAØHQ)

## Headquarter Station Battles

A unique feature of the IARU HF Championship is created by the IARU Headquarters (HQ) station multipliers. Chasing them across multiple bands and modes adds quite a bit to the strategy for both single-op and multioperator stations. And it's a lot of fun, too!

Headquarters stations are pretty easy to find on the HF bands during this event. They are typically loud and plentiful. HQ competitions can be quite competitive and 2013 was no different. DAØHQ edged out both EFØHQ and TMØHQ to claim this year's crown. DAØHQ was third in 2012 but switched spots with TMØHQ for the triumph. Many Potomac Valley Radio Club members got the thrill of signing W1AW/4 (coordinated by NR4M and described below) during the event and enjoyed keeping up with the progress of each station through an online scoring system.

## IARU Administrative Council Stations

In addition to ITU Zones and Headquarters Stations, IARU Administrative Council stations count as multipliers. Finding these stations in the QRM can be a challenge for the most seasoned operator. Nonetheless, there were 10 AC stations active with YV5AM setting the pace with 1.5 million points and 1,648 contacts. The Venezuelan standout was followed by strong performances from YBØAZ and VC6IARU.

### IARU Administrative Council Stations

| Category | Call    | Score     |
|----------|---------|-----------|
| AC       | VC6IARU | 244,256   |
| AC       | PB2T    | 142,614   |
| AC       | LA2RR   | 122,808   |
| R1       | LZ1US   | 180       |
| R2       | YV5AM   | 1,165,554 |
| R2       | YBØAZ   | 1,026,534 |
| R2       | JA1CJP  | 201,260   |
| R2       | CE3PG   | 28,040    |
| R2       | 9Y4X    | 47,357    |

## W1AW/4 on 10 Meter Phone

Here in the U.S., a team of Potomac Valley Radio Club members enjoyed the thrill of signing W1AW/4 during the event. With several stations working together, keeping up with the progress of each station required an online scoring system that coordinated operation over the Internet. The author relates his story of operating as W1AW/4 on 10 meters from the station of Will, AA4NC, in Apex, North Carolina near Raleigh.

Ten meters is a band that often gets passed by during the summer months because of poor propagation. But the band does open up during the summer – regardless of where the Sun is in its 11-year cycle. Will and I were given the task of holding down 10 meter SSB. Will was gracious enough to give me most of the prime operating time. When 1200 UTC struck we were ready to go. The six-element Yagi at 80 feet was aimed to the Midwest and the QSOs began to trickle into the logbook.

The band yielded some propagation to W8, W9 and WØ. There wasn't a big run to be had but it was enough to keep us hopeful. The hours began to pass and the rate was continuing around 50 per hour. There was a brief thrill when a few Western Europeans stations worked their way into the log around 1500 UTC - but that thrill was short-lived with the highlight being TK.

I was hopeful of really nice sporadic E opening but it never fully materialized. There were brief openings to South America (mostly PY) and an occasional African (CU and EA8) but the bulk of the rate was generated from the Midwest.

As we approached 2100 UTC we hit a wall. After CQing for several hours with little logged, Will experienced perhaps the shocker of the event when a VK7 station called in around 0100 UTC. We logged one more K7 station about 90 minutes later and that party was over. Early the next morning we called CQ for two hours with no responses, surprised that we at least didn't get a few ground wave contacts given the decent ham population in the area.

In the end, it really was a fun event as we tallied 475 QSOs with 4 Europeans, 25 South Americans and the single VK7. The band wasn't the best but it did provide entertainment. I love big rates but it is possible to get a radio rush without it. The honor of handing out the ARRL multiplier and doing it from a nice station has worked its way onto my Ham Radio Highlight reel.

## Next Year and WRTC-2014

The 2014 IARU HF Championship will be extra special for the operators who qualified for the 2014 World Radio Team Championship. ([www.wrtc2014.org](http://www.wrtc2014.org)) Fifty-nine two-person teams from around the world will compete from the Boston area to claim one of the most coveted crowns in all of radiosport.



**Again this year, dozens of volunteers such as Fred, K1VR (above) set up 25 WRTC-style test stations and competed as a multioperator station during the contest. (Photo courtesy of WRTC-2014)**

You can have even more fun next year if you set out to try to work as many WRTC-2014 stations as possible. WRTC competitors will be using 1-by-1 calls with special incentives to contact them. Don't miss out as the contest begins at 1200 UTC on July 12th and ends on July 13th at 1200 UTC.

**World-Wide Top Ten**

| Category                | Power | Call               | Score     | Category             | Power              | Call             | Score   |
|-------------------------|-------|--------------------|-----------|----------------------|--------------------|------------------|---------|
| <b>Single-Op, Mixed</b> | QRP   | LZØM (LZ2SX, op)   | 510,068   | <b>Single-Op, CW</b> | QRP                | OK3C (OK2ZC, op) | 779,106 |
|                         |       | HG6C (HA6IAM, op)  | 359,898   |                      |                    | UU2CW            | 649,495 |
|                         |       | US2IZ              | 349,662   |                      |                    | UX9Q (UR9QQ, op) | 582,192 |
|                         |       | JR3RWB             | 206,067   |                      |                    | HA6NL            | 557,760 |
|                         |       | KØOU               | 175,824   |                      |                    | UW5M (UT7MA, op) | 474,237 |
|                         |       | OK7CM              | 168,902   |                      |                    | F5VBT            | 432,718 |
|                         |       | UT5DJ              | 150,087   |                      |                    | EU1AA            | 354,750 |
|                         |       | IZ8JFL/1           | 148,827   |                      |                    | SP9NSV/7         | 286,221 |
|                         |       | G4DBW              | 132,174   |                      |                    | YL2CV            | 257,152 |
|                         |       | W1MR               | 121,164   |                      |                    | DD1IM            | 256,477 |
|                         | LP    | 4Z4AK (UT7DK, op)  | 2,312,220 |                      | YT3M (YT6W, op)    | 1,760,525        |         |
|                         |       | LY9A               | 2,018,549 |                      | LZ8E (LZ2BE, op)   | 1,675,520        |         |
|                         |       | IO4T (IK4VET, op)  | 1,727,100 |                      | LY6A               | 1,420,668        |         |
|                         |       | RV9UP              | 1,375,311 |                      | UW5Q (UR3QCW, op)  | 1,362,396        |         |
|                         |       | LY4L               | 1,332,114 |                      | OK2ZI              | 1,302,300        |         |
|                         |       | RT9S               | 1,257,538 |                      | C4Z (5B4AIZ, op)   | 1,148,350        |         |
|                         |       | 7Z1SJ              | 1,225,736 |                      | VA2WA (VA2WDQ, op) | 1,055,640        |         |
|                         |       | RWØA (RAØAM, op)   | 1,220,334 |                      | LY3B               | 1,040,480        |         |
|                         |       | R7MM               | 1,203,398 |                      | RW9C               | 1,017,450        |         |
|                         |       | S53MM              | 1,078,650 |                      | EA5AER             | 1,015,322        |         |
|                         | HP    | UW2M (URØMC, op)   | 3,979,660 |                      | HG7T (HA7TM, op)   | 3,604,400        |         |
|                         |       | C4W (5B4WN, op)    | 3,864,230 |                      | CR6K (CT1ILT, op)  | 3,461,080        |         |
|                         |       | UP2L (UA9BA, op)   | 3,856,736 |                      | UW1M (UR5MW, op)   | 3,020,108        |         |
|                         |       | RG9A               | 3,842,450 |                      | OM3BH              | 2,854,028        |         |
|                         |       | E7DX (E77DX, op)   | 3,722,579 |                      | UT5UGR             | 2,588,105        |         |
|                         |       | 9A5X               | 3,352,365 |                      | DJ5MW              | 2,523,618        |         |
|                         |       | 3V8BB (KF5EYY, op) | 3,340,763 |                      | UA5F               | 2,460,708        |         |
|                         |       | ES5RR (ES2RR, op)  | 3,127,183 |                      | OL8M               | 2,383,740        |         |
|                         |       | YL4U               | 2,956,728 |                      | RT5Z               | 2,374,984        |         |
|                         |       | OE3K (OE2VEL, op)  | 2,914,070 |                      | 4O3A (E73A, op)    | 2,247,654        |         |
| <b>Single-Op, Phone</b> | QRP   | HG1W               | 233,508   | <b>Multi-Op</b>      | YL8M (YL2KL, op)   | 2,246,864        |         |
|                         |       | HA5BKV             | 203,840   |                      | P33W               | 9,104,094        |         |
|                         |       | USØMS              | 157,620   |                      | EF8M               | 8,515,608        |         |
|                         |       | R2AD               | 133,950   |                      | C4N                | 5,573,800        |         |
|                         |       | CT2JBG             | 120,132   |                      | RF9C               | 4,256,647        |         |
|                         |       | N1YWB              | 108,120   |                      | PS2T               | 4,086,720        |         |
|                         |       | SP8LXE             | 100,305   |                      | RM5A               | 3,966,012        |         |
|                         |       | YO9FTN             | 65,670    |                      | OHØX               | 3,683,311        |         |
|                         |       | SQ8MFB             | 53,568    |                      | CR3T               | 3,412,320        |         |
|                         |       | W6QU (W8QZA, op)   | 52,569    |                      | HG6N               | 3,310,200        |         |
|                         | LP    | KH6LC (NH6V, op)   | 1,490,580 | KØDQ                 | 2,988,014          |                  |         |
|                         |       | N1UR               | 1,004,036 |                      |                    |                  |         |
|                         |       | IB1B (IW1QN, op)   | 858,000   |                      |                    |                  |         |
|                         |       | UV8M (UX3MR, op)   | 765,576   |                      |                    |                  |         |
|                         |       | KP2/AA1BU          | 731,590   |                      |                    |                  |         |
|                         |       | DF2DJ              | 700,570   |                      |                    |                  |         |
|                         |       | RV9CBW             | 683,696   |                      |                    |                  |         |
|                         |       | USØHZ              | 673,502   |                      |                    |                  |         |
|                         |       | ZZ2T (PY2MNL, op)  | 649,066   |                      |                    |                  |         |
|                         |       | EA8MT              | 622,980   |                      |                    |                  |         |
|                         | HP    | H2T (5B4XF, op)    | 2,792,829 |                      |                    |                  |         |
|                         |       | EA1FDI             | 2,514,822 |                      |                    |                  |         |
|                         |       | PP5JD              | 2,252,868 |                      |                    |                  |         |
|                         |       | EA4KD              | 2,078,004 |                      |                    |                  |         |
|                         |       | IR2M               | 2,054,360 |                      |                    |                  |         |
|                         |       | ES5RW              | 1,963,086 |                      |                    |                  |         |
|                         |       | EA5DFV             | 1,701,366 |                      |                    |                  |         |
|                         |       | K5TR               | 1,651,104 |                      |                    |                  |         |
|                         |       | W7WA               | 1,508,046 |                      |                    |                  |         |
|                         |       | RT4RO              | 1,493,263 |                      |                    |                  |         |

## Division Winners

| Category           | Power | Call             | Score     | Category              | Power | Call             | Score     |
|--------------------|-------|------------------|-----------|-----------------------|-------|------------------|-----------|
| <b>Atlantic</b>    |       |                  |           | <b>Northwestern</b>   |       |                  |           |
| A                  | B     | W3KB             | 239,121   | A                     | B     | N7VPN            | 32,807    |
| A                  | C     | K3ZO             | 1,405,680 | A                     | C     | K7RL             | 1,613,772 |
| B                  | A     | AB3RW            | 1,000     | B                     | A     | KK7VL            | 1,635     |
| B                  | B     | W2TF             | 34,365    | B                     | B     | W8BFX            | 20,022    |
| B                  | C     | N3WD             | 107,184   | B                     | C     | W7WA             | 1,474,070 |
| C                  | A     | AC2HJ            | 816       | C                     | A     | K7HBN            | 29,344    |
| C                  | B     | NW2K             | 288,184   | C                     | B     | WJ9B             | 504,974   |
| C                  | C     | AA3B             | 1,701,083 | C                     | C     | K7RF             | 231,732   |
| D                  | C     | N3AD             | 1,101,825 | D                     | C     | N7XU             | 60,588    |
| <b>Central</b>     |       |                  |           | <b>Pacific</b>        |       |                  |           |
| A                  | A     | AF9J             | 3,410     | A                     | B     | K6TIG            | 12,558    |
| A                  | B     | KB9OWD           | 208,608   | A                     | C     | K6XX             | 1,646,052 |
| A                  | C     | K9NW             | 1,116,585 | B                     | B     | K6GHA            | 94,909    |
| B                  | B     | N9EAX            | 30,380    | B                     | C     | K6JAT            | 48,052    |
| B                  | C     | WB9ONU           | 11,760    | C                     | B     | K6AAB            | 73,514    |
| C                  | A     | AI9K             | 20,900    | C                     | C     | W6SX             | 211,344   |
| C                  | B     | KE9I             | 211,282   | D                     | C     | W7RN             | 1,068,617 |
| C                  | C     | W9RE             | 1,495,494 | <b>Roanoke</b>        |       |                  |           |
| D                  | C     | NV9L             | 896,539   | A                     | A     | W4TTY            | 868       |
| <b>Dakota</b>      |       |                  |           | A                     | B     | KK4HEG           | 26,082    |
| A                  | B     | KØAD             | 255,789   | A                     | C     | WA4JUK           | 194,114   |
| B                  | A     | WBØIWG           | 4,224     | B                     | A     | N4ZAK            | 5,181     |
| B                  | B     | WAØLJM           | 7,620     | B                     | B     | N4REF            | 18,460    |
| C                  | A     | KEØG             | 11,210    | B                     | C     | N4MM             | 149,112   |
| C                  | B     | WBØN             | 47,060    | C                     | A     | W3TB             | 11,271    |
| C                  | C     | KØJJR            | 48,096    | C                     | B     | AA4FU            | 242,055   |
| D                  | C     | WØSD             | 1,050,624 | C                     | C     | K2SX             | 411,018   |
| <b>Delta</b>       |       |                  |           | D                     | C     | K3KO             | 124,800   |
| A                  | B     | WM5H             | 14,544    | <b>Rocky Mountain</b> |       |                  |           |
| A                  | C     | W5WMU            | 729,120   | A                     | B     | K9DR             | 360       |
| B                  | A     | N5HMH            | 2,885     | A                     | C     | KO7X             | 178,155   |
| B                  | B     | W4HRC            | 37,520    | B                     | B     | N7MZW            | 101,838   |
| B                  | C     | WA5OYU           | 478,519   | C                     | A     | WX7G             | 1,344     |
| C                  | A     | KS4X             | 2,160     | C                     | B     | W2UP             | 229,233   |
| C                  | B     | N5AN             | 452,160   | C                     | C     | KØRF (WØUA, op)  | 1,231,601 |
| C                  | C     | K4RO             | 1,204,645 | D                     | C     | AD1C             | 47,520    |
| D                  | C     | WD4K             | 573,338   | <b>Southeastern</b>   |       |                  |           |
| <b>Great Lakes</b> |       |                  |           | A                     | B     | N4KH             | 47,656    |
| A                  | A     | KT8K             | 56,480    | A                     | C     | K4BAI            | 1,024,976 |
| A                  | B     | K8GT             | 160,072   | B                     | A     | NT4TS            | 24,500    |
| B                  | B     | K8PGJ            | 79,488    | B                     | B     | WB4OMM           | 179,524   |
| B                  | C     | KE8FT            | 121,952   | B                     | C     | W4SVO            | 970,640   |
| C                  | A     | N8XX             | 8,670     | C                     | A     | K3TW             | 53,956    |
| C                  | B     | KV8Q (W8ERD, op) | 487,105   | C                     | B     | KU8E             | 353,457   |
| C                  | C     | NF8R             | 260,278   | C                     | C     | K5KG             | 1,168,307 |
| D                  | C     | K8AZ             | 1,526,844 | D                     | C     | K9ES             | 808,720   |
| <b>Hudson</b>      |       |                  |           | <b>Southwestern</b>   |       |                  |           |
| A                  | B     | WA2JQK           | 27,936    | A                     | B     | NN6CH            | 177,540   |
| B                  | B     | N2MTG            | 13,052    | A                     | C     | KØDI             | 143,304   |
| B                  | C     | KM2O             | 85,905    | B                     | A     | W6QU (W8QZA, op) | 52,487    |
| C                  | A     | WA2NYY           | 3,596     | B                     | B     | KQ6P             | 17,820    |
| C                  | B     | N2GA             | 316,276   | B                     | C     | NY7N             | 41,109    |
| C                  | C     | WW2Y             | 811,595   | C                     | B     | WN6K             | 265,318   |
| D                  | C     | W2EN             | 279,664   | C                     | C     | N6MA             | 570,078   |
| <b>Midwest</b>     |       |                  |           | D                     | C     | NX6T             | 600,187   |
| A                  | A     | KØOU             | 222,277   | <b>West Gulf</b>      |       |                  |           |
| A                  | B     | NWØM             | 209,440   | A                     | B     | K5DHY            | 110,288   |
| A                  | C     | WØEWD @NØNI      | 1,196,902 | A                     | C     | K5RT             | 477,516   |
| B                  | B     | W7KAM            | 15,364    | B                     | B     | W5GFI            | 99,960    |
| B                  | C     | KØRH             | 248,744   | B                     | C     | K5TR             | 1,368,324 |
| C                  | B     | KBØKIE           | 31,488    | C                     | A     | W5ESE            | 168       |
| C                  | C     | KØPY             | 151,855   | C                     | B     | NM5M             | 176,736   |
| D                  | C     | KMØDX            | 118,848   | C                     | C     | WXØB (AD5Q, op)  | 1,453,921 |
| <b>New England</b> |       |                  |           | D                     | C     | N3BUO            | 766,604   |
| A                  | A     | N1TM             | 60,312    | <b>Canada</b>         |       |                  |           |
| A                  | B     | W1BYH            | 47,726    | A                     | B     | VE3BR            | 528,090   |
| A                  | C     | KQ2M             | 1,867,323 | A                     | C     | VE3AT            | 2,247,705 |
| B                  | B     | N1UR             | 715,040   | B                     | A     | VA3VF            | 4,592     |
| B                  | C     | K1PLX            | 211,692   | B                     | B     | VE1WOW (K1WO,op) | 121,793   |
| C                  | A     | K1IMI            | 228,161   | B                     | C     | VA6UK            | 46,830    |
| C                  | B     | W2IY             | 34,569    | C                     | A     | VE3MGY           | 50,138    |
| C                  | C     | N2WQ             | 615,000   | C                     | B     | VE3DZ            | 552,972   |
| D                  | C     | W1SJ             | 1,348,235 | C                     | C     | VE3XB            | 670,983   |
|                    |       |                  |           | D                     | C     | VE3UTT           | 1,250,238 |



### Regional Leaders - US and Canada

Table shows Call, Score, Category and Power. For Category: A=Mixed Mode, B=Phone Only, C=CW Only, D=Multioperator. For Power, A=QRP, B=Low Power, C=High Power.

| Northeast Region  |           |   |   | Southeast Region                          |           |   |   | Central Region  |           |   |   | Midwest Region  |           |   |   | West Coast Region  |           |   |   |
|---|-----------|---|---|---|-----------|---|---|---|-----------|---|---|---|-----------|---|---|--|-----------|---|---|
| New England, Hudson and Atlantic Divisions;<br>Maritime and Quebec Sections |           |   |   | Delta, Roanoke and Southeastern Divisions |           |   |   | Central and Great Lakes Divisions; Ontario<br>Section |           |   |   | Dakota, Midwest, Rocky Mountain and<br>West Gulf Divisions; Manitoba and<br>Saskatchewan Sections |           |   |   | Pacific, Northwestern and Southwestern<br>Divisions; Alberta, British Columbia and NWT<br>Sections |           |   |   |
| N1TM  | 60,312    | A | A | W4TTY                                     | 868       | A | A | KT8K  | 56,480    | A | A | KØOU  | 222,277   | A | A | NN6CH  | 177,540   | A | B |
| W1MR  | 55,930    | A | A | N4KH                                      | 47,656    | A | B | KU4A  | 27,873    | A | A | KØAD  | 255,789   | A | B | WA6FGV   | 114,750   | A | B |
| KB1HNZ  | 42,944    | A | A | KK4HEG                                    | 26,082    | A | B | AF9J  | 3,410     | A | A | NWØM  | 209,440   | A | B | W6AWW  | 108,224   | A | B |
| W3KB  | 239,121   | A | B | WM5H                                      | 14,544    | A | B | VE3BR   | 528,090   | A | B | VE4YU   | 150,480   | A | B | K6XX   | 1,646,052 | A | C |
| KB3LIX  | 112,530   | A | B | KK4DSD                                    | 1,332     | A | B | KB9OWD  | 208,608   | A | B | WØEWD @NØNI   | 1,196,902 | A | C | K7RL   | 1,613,772 | A | C |
| W1BYH   | 47,726    | A | B | K4BAI                                     | 1,024,976 | A | C | VE3IAE  | 190,365   | A | B | K5RT  | 477,516   | A | C | KX7M   | 464,940   | A | C |
| KQ2M  | 1,867,323 | A | C | K4AB                                      | 966,868   | A | C | NF8M  | 2,350     | A | B | KØBJ  | 384,134   | A | C | W6QU (W8QZA, op)   | 52,487    | B | A |
| K3ZO  | 1,405,680 | A | C | NT4TS                                     | 24,500    | B | A | VE3AT   | 2,247,705 | A | C | WBØNWG  | 4,224     | B | A | KK7VL  | 1,635     | B | A |
| K3WW  | 1,167,088 | A | C | N4ZAK                                     | 5,181     | B | A | K9NW  | 1,116,585 | A | C | N7MZW   | 101,838   | B | B | K6GHA  | 94,909    | B | B |
| AB3RW   | 1,000     | B | A | N5HMH                                     | 2,885     | B | A | VA3VF   | 4,592     | B | A | W5GFI   | 99,960    | B | B | W8BFX  | 20,022    | B | B |
| KC2QPP  | 3         | B | A | WB4OMM                                    | 179,524   | B | B | K8PGJ   | 79,488    | B | B | K5YM  | 42,768    | B | B | KQ6P   | 17,820    | B | B |
| N1UR  | 715,040   | B | B | K1KNQ                                     | 42,966    | B | B | NT8Z  | 36,582    | B | B | K5TR  | 1,368,324 | B | C | W7WA   | 1,474,070 | B | C |
| VE1WOW (K1WO,op)  | 121,793   | B | B | W4HRC                                     | 37,520    | B | B | WS6K  | 33,820    | B | B | N5MV  | 379,344   | B | C | K6JAT  | 48,052    | B | C |
| KA2KON  | 50,562    | B | B | W4SVO                                     | 970,640   | B | C | KE8FT   | 121,952   | B | C | KØRH  | 248,744   | B | C | VA6UK  | 46,830    | B | C |
| K1PLX   | 211,692   | B | C | WA5OYU                                    | 478,519   | B | C | AJ4A  | 73,793    | B | C | KEØG  | 11,210    | C | A | K7HBN  | 29,344    | C | A |
| N3WD  | 107,184   | B | C | K5ER                                      | 419,975   | B | C | AAØPO   | 53,716    | B | C | KA8HDE  | 4,536     | C | A | N7RCS  | 984       | C | A |
| KM2O  | 85,905    | B | C | K3TW                                      | 53,956    | C | A | VE3MGY  | 50,138    | C | A | WX7G  | 1,344     | C | A | VA7MM  | 406       | C | A |
| K1IMI   | 228,161   | C | A | K4MF                                      | 46,314    | C | A | AØK   | 20,900    | C | A | W2UP  | 229,233   | C | B | WJ9B   | 504,974   | C | B |
| K8CN  | 84,108    | C | A | W3TB                                      | 11,271    | C | A | VA3RKM  | 20,280    | C | A | NM5M  | 176,736   | C | B | W7YAQ  | 498,400   | C | B |
| AA1CA   | 20,412    | C | A | N5AN                                      | 452,160   | C | B | VE3DZ   | 552,972   | C | B | N5KWN   | 168,792   | C | B | WN6K   | 265,318   | C | B |
| N2GA  | 316,276   | C | B | KU8E                                      | 353,457   | C | B | KV8Q (W8ERD, op)                                      | 487,105   | C | B | WXØB (AD5Q, op)   | 1,453,921 | C | C | N6MA   | 570,078   | C | C |
| NW2K  | 288,184   | C | B | WA1FCN                                    | 341,055   | C | B | W1NN  | 331,484   | C | B | KØRF (WØUA, op)   | 1,231,601 | C | C | K6NR   | 269,742   | C | C |
| W2GD  | 213,598   | C | B | K4RO                                      | 1,204,645 | C | C | W9RE  | 1,495,494 | C | C | K5OT (@K5NA)  | 1,215,984 | C | C | K7RF   | 231,732   | C | C |
| AA3B  | 1,701,083 | C | C | K5KG                                      | 1,168,307 | C | C | K9CT  | 1,012,420 | C | C | WØSD  | 1,050,624 | D | C | W7RN   | 1,068,617 | D | C |
| K2SSS   | 862,040   | C | C | KZ5D                                      | 916,050   | C | C | VE3XB   | 670,983   | C | C | NØAT  | 773,358   | D | C | K6AW   | 854,165   | D | C |
| WW2Y  | 811,595   | C | C | K9ES                                      | 808,720   | D | C | K8AZ  | 1,526,844 | D | C | N3BUO   | 766,604   | D | C | K6MMM  | 709,628   | D | C |
| W1SJ  | 1,348,235 | D | C | WW4LL                                     | 683,696   | D | C | VE3UTT  | 1,250,238 | D | C |   |           |   |   |  |           |   |   |
| K1BG  | 1,308,124 | D | C | WD4K                                      | 573,338   | D | C | NV9L  | 896,539   | D | C |   |           |   |   |  |           |   |   |
| K1ZD  | 1,291,636 | D | C |   |           |   |   |   |           |   |   |   |           |   |   |  |           |   |   |