

# Results of the 2010 CQ WW WPX CW Contest

BY RANDY THOMPSON,\* K5ZD

**F**ew things match the hope and optimism present at the beginning of a major DX contest. Participants anxiously watch the seconds tick down. Will the new antennas work? Will conditions be good? Can I win my region or break a record? What contacts or openings will I experience and tell stories about?

For the first 6 hours or so of May 29–30, 2010, the 31st edition of the CQ WPX CW Contest was providing plenty of hope. CR6K in Portugal started the contest running USA stations on 15 meters. At the same time, USA stations were working into Japan and the Pacific. Then a solar event bombarded the ionosphere and the party was over.

To be charitable, conditions for the remainder of the weekend were challenging. Any path over the northern polar region was gone. The Europeans complained of not being able to work North America. The western USA couldn't work Europe. The eastern USA couldn't work Japan. The contest became separate QSO parties where each continent worked the locals, but at a loss of valuable DX QSO points and multipliers.

Yet, sporadic-E on 10 meters provided some entertainment. Europe enjoyed good openings on both days. There were even reports of QSOs from southern Europe to China and the USA. YT2T and 9A1CCY made 1348 and 1273 QSOs, respectively, on the band! The USA also saw E-skip openings. WN1GIV in south Florida made over 700 contacts on 10 meters.

In spite of the terrible conditions, and the usual conflict with the Memorial Day holiday in the USA, the WPX CW event once again broke records for log submissions, with 3649 logs received. To twist a phrase, for many amateur radio operators even a bad day of contesting is better than a good day fishing, or mowing the yard, or any of the other things people do on a weekend in late spring!

A Haiku poetry contest on the CQ WPX fan page on Facebook produced this commentary.

*As I sit in chair  
I admire my iron pants  
So very stylish.  
—Khrystine Keane, K1SFA*

And for those operators with iron pants who were willing to stay in the chair despite the poor conditions, that style was rewarded. There were seven new world or continental records (see records table elsewhere

\*e-mail: <k5zd@cqwpx.com>



*The team at CQ3L set a new Africa record in the Multi-Two category. Left to right back: Diethelm, DJ2YE; Joerg, DL3QQ; Norbert, DJ7JC; Wil, PA0BWL; Dieter, DJ8DS; Hape, DL1XW; Uli, DJ9IE. Front: Deti, DK3QZ, and Kai, DL3HAH.*

in this issue). Yes, all came from areas south of the major population centers, but it still takes a great deal of effort and skill to set one of these top-level records. Many comments included in the logs pointed to personal best scores or new countries to be found. By the way, there were 160 different countries reported active during the weekend.

Countries are nice, but it's prefixes we want. The multi-multi team at DR1A repeated their accomplishment in the SSB contest by having the highest prefix multiplier in the contest with 1255, not quite up to their record of 1313 prefixes set in 2008. Close behind were LZ9W with 1231 and ZW5B with 1223. The top single operator prefix hunter was EF8M with 1026. In all, there were 28 stations that recorded over 1000 prefix multipliers. Some of the more unusual callsigns that submitted logs included 3Z9TA, 4U10NPT, BX0WPX, CD1R, DL60DARC, HF100HP, HG60VOTT, LZ180FT, OL26LP, PC600P, PD05CW, SP2010CY, TM77M, and V55X.

## Single Operator All Band High Power

The world champion in the Single Operator All Band High Power category was again from the station of EF8M, but this time with Alex, RZ3AZ, at the key. Alex broke the world

record set just a year earlier from the same station. In second place was John, K4BAI, operating from PJ4A. John broke the all time single-op record for South America that has stood since 1994! Andy, UU0JM, once again travelled to 4L0A to take third place. Just a few contacts behind in fourth was Jeff, K1ZM, operating from his VY2ZM station on Prince Edward Island in eastern Canada. Pertti, OH2PM, piloted TC4X to fifth place without making a contact on 160 or 80 meters.

In the USA, it was Alex LZ4AX, taking a break from his advanced studies at Penn State University to operate under the KC3R callsign. How bad were conditions? Alex's winning score this time was 30% below his winning score in 2009. Ouch! Bud, AA3B, took second place by just 15K points over Paul, K8PO, operating as AJ1I. Dick, WC1M, was right behind them in fourth. All of these operators are extremely accurate, and it was log checking that helped settle the final order of finish.

The competition in Europe was intense as always. CR6K, operated by Filipe, CT1ILT, took advantage of his southern location to take the win. Ranko, 4O3A, was only 15 contacts behind in second place. The difference was Felipe's 57 additional multipliers. Continuing the dominance of southern Europe was UW2M in third, operated by Roman, UR0MC. Serge, RA3CW, operating

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## TROPHY WINNERS AND DONORS

### SINGLE OPERATOR ALL BAND

**WORLD:** Steve Bolia, N8BJQ Trophy. Won by: **EF8M** operated by Alexandr Gimánov, RZ3AZ  
**WORLD Low Power:** Caribbean Contesting Consortium Trophy. Won by: **P49Y** operated by Andrew L. Faber, AE9Y  
**WORLD QRP:** Bill Parker, W8QZA Trophy. Won by: **TM77M** operated by Laurent Fontaine, F5MUX  
**USA:** Dennis Motschenbacher, K7BV Trophy. Won by: **KC3R** operated by Alexander Avramov, LZ4AX  
**USA Low Power:** Ken Boasi, N2ZN Trophy. Won by: **NN5J** operated by Kevin Stockton, N5DX  
**USA QRP:** John T. Laney, K4BAI Trophy. Won by: **Gary Hembree, N7IR**  
**USA Zone 3 High Power:** Northern California Contest Club Trophy. Won by: **KR7X** operated by Denis Pochuev, K7GK  
**USA Zone 3 Low Power:** Arizona Outlaws Contest Club Trophy. Won by: **John Arthurs, K7WP**  
**USA Zone 4 High Power:** Society of Midwest Contesters Trophy. Won by: **NN4US** operated by Erik Martin, N5WR  
**USA Zone 4 Low Power:** Society of Midwest Contesters Trophy. Won by: **KS9K** operated by Terry Zivney, N4TZ  
**EUROPE:** Ivo Pezer, 5B4ADA/9A3A Trophy. Won by: **CR6K** operated by Filipe Monteiro Lopes, CT1ILT  
**EUROPE Low Power:** Vitor Santos, PY2NY Trophy. Won by: **OL6P** operated by Petr Prokop, OK2PP  
**EUROPE QRP:** Julius Fazekas, N2WN Trophy. Awarded to: **Miroslav Vohlidal, OK1DVM**  
**AFRICA:** Chris Terkla, N1XS Trophy. Won by: **ST2AR** operated by Robert Kasca, S53R  
**ASIA:** Rick Tavan, N6XI Trophy. Won by: **4L0A** operated by Andy Kazantsev, UU0JM  
**NORTH AMERICA:** Louisiana Contest Club Trophy. Won by: **V26E** operated by Darrell Neron, AB2E  
**NORTH AMERICA QRP:** Dale Martin, KG5U Trophy. Won by: *no entry*  
**OCEANIA:** Lloyd Cabral, KH6LC Trophy. Won by: **John Loftus, VK4EMM**  
**SOUTH AMERICA:** David Kopacz, KY1V Trophy. Won by: **PJ4A** operated by John T. Laney III, K4BAI  
**SOUTHERN CONE (CE,CX,LU):** Tom Morton, K6CT Trophy. Won by: **CW5W** operated by Jorge Diez, CX6VM  
**CANADA:** Radio Amateurs of Canada (RAC) Trophy. Won by: **VY2ZM** operated by Jeffrey T. Briggs, K1ZM  
**CANADA Low Power:** Contest Club Ontario Trophy. Won by: **Nick Lelch, VE3EY**  
**JAPAN:** Simone Candotto, IV3NVN Trophy. Won by: **Masaki Okano, JH4UYB**

### SINGLE OPERATOR, SINGLE BAND

**WORLD 28 MHz:** Steve Hodgson, ZC4LI Trophy. Won by: **Juan Morandi, LU1HF**  
**WORLD 21 MHz:** Andrei Stchislenok, NP3D Trophy. Won by: **ZX5J** operated by Rafael Oliveira Martins, PY2NDX  
**WORLD 14 MHz:** Gene Walsh, N2AA Trophy. Won by: **CT1JLZ** operated by Jiri Pesta, OK1RF  
**WORLD 7 MHz:** 6Y1V Contest Station Trophy. Won by: **3V8CB** operated by Dragan Acimovic, YT3W  
**WORLD 7 MHz Low Power:** Neal Campbell, K3NC Trophy. Won by: **Slavko Celarc, S57DX**  
**WORLD 3.5 MHz:** Ranko Boca, 4O3A Trophy. Won by: **Emil Tafro, E71A**  
**WORLD 1.8 MHz:** Dusko Dumanovic, ZL3WW Trophy. Won by: **Vemic Miroslav, YT4A**  
**USA 28 MHz:** Paul Beringer, NG7Z Trophy. Won by: **WN1GIV/4** operated by Bob Patten, N4BP  
**USA 21 MHz:** Charlie Wooten, NF4A Trophy. Won by: **NR5M** operated by Eric Silverthorn, NM5M  
**USA 14 MHz:** Kansas City DX Club Trophy. Won by: **Dave Patton, NN1N**  
**USA 7 MHz:** Darin Divinia, WG5J Trophy. Won by: **Richard Lee, W2EG**  
**USA 3.5 MHz:** Wes Printz, W3SE / ZL3TE Trophy. Won by: **Madison Jones, W5MJ**  
**EUROPE 28 MHz High Power:** SKY Contest Club Trophy. Won by: **9A1CCY** operated by Sasa Pokorni, 9A3NM  
**EUROPE 21 MHz High Power:** SKY Contest Club Trophy. Won by: **Vladeta Krkic, YU1KX**  
**EUROPE 14 MHz High Power:** SKY Contest Club Trophy. Won by: **Marko Munih, S50K**  
**EUROPE 7 MHz High Power:** SKY Contest Club Trophy. Won by: **YT0A** operated by Ivan Cakarevic, YT1CI  
**EUROPE 3.5 MHz High Power:** SKY Contest Club Trophy. Awarded to: **Patrick Bittiger, F2DX**  
**EUROPE 1.8 MHz High Power:** SKY Contest Club Trophy. Awarded to: **Nemeth Nicolae Iuliu, YO5AJR**

### SINGLE OPERATOR ASSISTED

**WORLD:** D4C Station Trophy. Won by: **KP2M** operated by John L. Bednar, K3TEJ  
**USA:** Ron Sigismonti, N3RS Trophy. Won by: **Gene Shablygin, WU3A/1**  
**EUROPE:** Martin Huml, OL5Y Trophy. Won by: **ER0WW** operated by Sergey Brebrov, UT5UDX

### OVERLAY CATEGORIES

**WORLD Tribander/Single Element:** Helmut Mueller, DF7ZS Trophy. Won by: **TC4X** operated by Pertti Simovaara, OH2PM  
**USA Tribander/Single Element:** Paul Newberry, N4PN Trophy. Won by: **NX0X/4** operated by Paul Newberry, N4PN  
**EUROPE Tribander/Single Element:** WPX Contest Committee Trophy. Won by: **Matija Brodnik, S53MM**  
**WORLD Rookie:** Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **OF50RR** operated by Mikko Silvola, OH8FKU  
**NORTH AMERICA Rookie:** Chris Kantarjiev, K6DBG Trophy. Won by: **David Levine, K2DSL**

### MULTI-OPERATOR SINGLE-TRANSMITTER

**WORLD:** Steve Miller, N0SM Trophy. Won by: **P33W** operated by RW4WR, RV1AW, RA3AUU  
**USA:** Phil Allardice, KT3Y Trophy. Won by: **NY4A** operated by AA4FU, N4AF  
**AFRICA:** Rhein Ruhr DX Association Trophy. Won by: *no entry*  
**ASIA:** W2MIG Memorial (NX7TT Sponsor) Trophy. Won by: **C4N** operated by 5B8AD, RV6LNA, UA6LP, RA6LFO, RW3QC  
**EUROPE:** Andy Ruse, YO3JR/YR1A Trophy. Won by: **RT4F** operated by UA4FMV, UA4FER, RW4FO, RK4FD, RK4FQ, RK4FW, RZ4FA  
**NORTH AMERICA:** Jim George, N3BB Trophy. Won by: *no entry*

### MULTI-OPERATOR TWO-TRANSMITTER

**WORLD:** UA1DZ Memorial (W3UA Sponsor) Trophy. Won by: **C4I** operated by LZ1UK, LZ2HM, LZ3CQ, LZ3NY  
**USA:** Florida Contest Group Trophy. Won by: **K1LZ** operated by K8DXC, K1LZ, KQ2M, K3JO, NU5Y, N8BO, LZ1MS  
**AFRICA:** Walter Skudlarek, DJ6QT Trophy. Won by: **EA8URL** operated by RD3AF, EA8ZS, EA8DP, EA8BQM, EA8AJW, EA8BEX, EA8AGF, EA8CAC, EA8RY, EA8AVK  
**EUROPE:** Tom Georgens, W2SC Trophy. Awarded to: **OM7M** operated by OK2BFN, OM2IB, OM3PA, OM5MF, OM5RM, OM5RW, OM5ZW

### MULTI-OPERATOR MULTI-TRANSMITTER

**WORLD:** Steve Merchant, K6AW Trophy. Won by: **CQ3L** operated by DJ2YE, DJ7JC, DJ8DS, DJ9IE, DK3QZ, DL1XW, DL3HAH, DL3QQ, PA8BWL  
**USA:** Jim Reisert, AD1C Trophy. Awarded to: **KM3T/1** operated by KM3T, WA1Z, K1GQ, W1FV, N1KWF  
**EUROPE:** David Robbins, K1TTT Trophy. Won by: **LZ9W** operated by LZ1ZD, LZ1ANA, LZ1GL, LZ1PJ, LZ1PM, LZ1UQ, LZ2CJ, LZ2HQ, LZ2GL, LZ2TU, LZ2UU, LZ2PO, LZ2UZ, LZ3FM, LZ3UM

### CONTEST EXPEDITION

**WORLD:** Phil Goetz, N6ZZ Memorial Trophy. Won by: **Hal Offutt, MJ/W1NN**

### COMBINED SSB/CW

**WORLD Single Operator:** Yuri Blarovich, K3BU Trophy. Won by: **KH7XS/KH7B** operated by Bill Kollenbaum, K4XS  
**USA Single Operator:** Bill Fisher W4AN Memorial (KM3T Sponsor). Won by: **KC3R** operated by Alexander Avramov, LZ4AX  
**WORLD Club Score:** CQ Magazine trophy. Won by: **Bavarian Contest Club**  
Please contact Doug Grant, K1DG, at <plaques@cqwpx.com> if you are interested in sponsoring a trophy.



RS3A, was the only one from central or northern Europe to crack the European top ten.

### Single Operator All Band Low Power

The poor conditions were not as friendly to the low power operators. There are no new records to brag about, but there were still some great scores! Andy, P49Y (AE6Y), backed up his world high finish on SSB with one on CW. As the contest started for everyone else, the electrical power was out for the whole island of Aruba. When the lights came back on at 0705Z, all Andy could do was push as hard as possible and be happy the rules required everyone to take 12 hours off sometime during the weekend. A remarkable effort to achieve the win! Second place went to Vitor, PY2NY, operating from PS2T. Eric, K9GY, once again travelled to Nicaragua and made his best score ever from YN2GY to finish in third. Bill, K4XS, used the call KH7B and dropped down to low power this year to chase the Oceania record. His 4.4-million points easily surpassed the existing record of 3.3 Meg set back in 2001. Olli, OH0XX, visited the station of TI5N and claimed fifth place.

The top low power score for the USA was made by Kevin, N5DX, operating under the callsign NN5J. Another example of a great op taking advantage of the conditions that seemed to favor stations more to the south. Less than 200K points behind was Maury, W3EF, showing you don't need a rare prefix to do well in the contest. Perennial top ten finisher NV1N (Ed, N1UR op) complained that these were "definitely the worst WPX contest conditions ever experienced from this QTH in Vermont." Another regular was Will, WJ9B, operating from Florida, who finished well behind his score of 2009. Terry, N4TZ, deserves credit for putting in a full effort from KS9K in Indiana to make the top five.

The race for first place low power in Europe came down to log checking. Petr, OK2PP, used the call OL6P. Franco, TK/S59AA, did a DXpedition to Corsica and operated from a camp site using a TH33jr tribander only 30 feet above ground. Franco had more QSOs, while Petr had more multipliers. It was a lower error rate that gave Petr the victory! Of course, we should mention that Franco only operated 30 hours, so a bit more operating time might have made the difference. Very close behind was Nasko, LZ3YY, operating as LZ9R, who lost several hours of operation due to thunderstorms.

### Single Operator Single Band

If one is the loneliest number, then one-sixty is surely the loneliest band in WPX CW. Even so, there are hardy souls who take up the challenge of summertime QRN. The top high power score was made by Mike, YO5AJR. In an unusual twist, the world high score was done with low power by Vemic, YT4A. Richard, K5NA, took the USA honors and broke a 25-year-old record for the W5 call area.

After losing by just a few points on SSB, Emil, E71A, returned to 80 meters for the CW contest and ended up with the world high

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score. Very close behind was Patrick, F2DX, who complained of operating only 24 hours because there were no signals on the band during the day! Madison, W5MJ, stuck it out for top USA score on 80. Vyacheslav, UA2FL, had the world high score on low power.

Many entrants commented that 40 meters had the best of the bad conditions. Dragan, YT3W, took advantage by setting a new world record from 3V8CB. Laurent, FM5BH, finished second. Steve, ZC4LI, made a last-minute decision to change from single band on 15 meters to single band on 40 and was rewarded with a new all-time record score for Asia. In the USA, it was Richard, W2EG, running low power who had the highest score. There was a fierce competition on low power in Europe. Slavko, S57DX, just got by Franci, S51F, and Slawa, ER6A.

When conditions are bad there is always 20 meters. The competition this year was intense with only a few points separating the top three. The overall winner was CT1JLZ operated by Jiri, OK1RF. Jiri always has one of the biggest signals from Europe. Willy, UA9BA, returned to UP2L to defend his title

from the previous year. He said of conditions, "Never saw 20 meter band in such poor shape for the *whole* weekend in a major contest!" Third place was Pedro, HK1X, operating from the new super station of the DX Colombia ARC. The new antennas work, as Pedro broke the South America record set back in 1991! Dave, NN1N, avoided the siren call of the beautiful weather outside and stayed on the radio long enough to win the USA. Close behind was Bill, K5GA, operating as NM5M from the NR5M station outside Houston. Bill had 250 more contacts, but Dave had more QSO points. On low power, it was a close race in Europe between Eugeniusz, SP4JCQ, and Zoltan, HG4F.

It wouldn't be 15 meters if we didn't mention ZX5J. This time it was Rafael, PY2NDX, who had the honor of driving the ZX5J station to a first-place finish. He had some competition from LP2F, operated by Sebastian, LU4FPZ. Jorge, HK1KYR, another of the DX Colombia operators, was third. The top USA score was made by Eric, NM5M, operating as NR5M. If that sounds like déjà vu, go back and read the 20-meter paragraph above!

Chasing Eric was Mark, W4SVO. In Europe it was Vlada, YU1KX, who took the win over Remi, LY8O. Once again it was advantage south over north with the disturbed conditions. The top low power score was achieved by 17-year-old Alex, YO8TOH, operating from the YR8B club station.

Juan, LU1HF, dominated everyone on 10 meters. His score of 2.2-million points was more than double anyone else! Two Europeans battled for second place. Sasa, 9A3NM, operated 9A1CCY ahead of Marko, YT2T. Third place was David, HK1A, another single band operation from the new DX Colombia club station. Bob, N4BP, operated WN1GIV to first place in the USA. The world winner on low power was Matija, 9A3VM.

## Single Operator QRP

There were 236 entries in the single operator QRP category. The top all-band score was TM77M, operated by Laurent, F5MUX. His 1501 QSOs was impressive given the conditions. The next three scores were all from the Czech Republic. Miroslav,

## WORLD TOP SCORES

|  |  |   |  |  |  |   |  |  |  |
|--|--|---|--|--|--|---|--|--|--|
| <b>SINGLE OPERATOR HIGH POWER ALL BAND</b> |  | <b>7 MHz</b>  |  | <b>IT9VDQ</b> .....529,686                         |  | <b>TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND</b> |  | <b>3.5 MHz</b>                           |  |
| EF8M (RZ3AZ).....18,395,154                |  | *S57DX.....2,056,256                                |  | S53O.....522,309                                   |  | TC4X (OH2PM).....8,965,635                          |  | *SN5Q (SQ5RDX).....300,196               |  |
| PJ4A (K4BAI).....14,688,993                |  | *S51F.....1,930,480                                 |  | <b>21 MHz</b>                                      |  | S53MM.....4,722,668                                 |  | *AB1J.....48,000                         |  |
| 4L0A (UU0JM).....10,564,020                |  | *ER6A.....1,725,584                                 |  | IT9BLB.....1,489,644                               |  | S50C (S53CC).....4,171,825                          |  | *W8AEF/7.....44,250                      |  |
| VY2ZM (K1ZM).....10,232,376                |  | <b>3.5 MHz</b>                                      |  | IQ2CJ (IK2PFL).....1,194,248                       |  | IK0YVV.....3,769,880                                |  | <b>1.8 MHz</b>                           |  |
| TC4X (OH2PM).....8,965,635                 |  | *UA2FL.....711,350                                  |  | OL8R.....1,005,024                                 |  | M9X (G4MKP).....3,258,405                           |  | *YT4A.....151,646                        |  |
| <b>28 MHz</b>                              |  | *OM3ZWA.....602,160                                 |  | <b>14 MHz</b>                                      |  | <b>28 MHz</b>                                       |  | <b>ROOKIE HIGH POWER ALL BAND</b>        |  |
| LU1HF.....2,211,832                        |  | *LY2GW.....487,976                                  |  | 4L8A.....3,962,794                                 |  | 9A2U (9A3ZA).....482,664                            |  | PY2LSM.....173,124                       |  |
| 9A1CCY (9A3NM).....978,924                 |  | <b>1.8 MHz</b>                                      |  | R7LV.....3,554,109                                 |  | WN1GIV/4 (N4BP).....320,306                         |  | <b>21 MHz</b>                            |  |
| YT2T.....908,600                           |  | *YT4A.....151,646                                   |  | IR2C (IK2JUB).....2,790,264                        |  | OH3BU.....289,161                                   |  | IT9IMJ.....13,578                        |  |
| <b>21 MHz</b>                              |  | *UX5NQ.....115,978                                  |  | <b>7 MHz</b>                                       |  | <b>21 MHz</b>                                       |  | <b>ROOKIE LOW POWER ALL BAND</b>         |  |
| ZX5J (PY2NDX).....6,673,540                |  | *OK6Y (OK2PTZ).....110,544                          |  | YU1LA.....4,406,565                                |  | EA5FID.....641,538                                  |  | *OF50RR (OH8FKU).....686,070             |  |
| LP2F (LU4FPZ).....5,140,625                |  | <b>SINGLE OPERATOR QRP ALL BAND</b>                 |  | UT5UGR.....3,398,725                               |  | UN4PG.....599,148                                   |  | *OH7FKV.....558,999                      |  |
| HK1KYR.....3,828,006                       |  | TM77M (F5MUX).....1,951,964                         |  | UP7A (UN7AL).....3,219,984                         |  | OI6X (OH6NJ).....333,000                            |  | *K2DSL.....67,500                        |  |
| <b>14 MHz</b>                              |  | OK1DVM.....1,756,188                                |  | <b>3.5 MHz</b>                                     |  | <b>14 MHz</b>                                       |  | *AF6EV.....59,840                        |  |
| CT1JLZ (OK1RF).....4,875,330               |  | OK2BYW.....1,369,887                                |  | LY7M.....1,043,289                                 |  | C4M.....2,777,625                                   |  | *RN3DKE.....55,596                       |  |
| UP2U (UA9BA).....4,707,755                 |  | OK7CM.....1,297,322                                 |  | EU1UN.....988,097                                  |  | EU1FC.....1,209,663                                 |  | <b>28 MHz</b>                            |  |
| HK1X.....4,667,505                         |  | TM3T (F5VBT).....808,152                            |  | II1H (I1HJT).....910,860                           |  | OR2A (ON7YX).....840,155                            |  | *SQ5STS.....2,604                        |  |
| <b>7 MHz</b>                               |  | <b>28 MHz</b>                                       |  | <b>1.8 MHz</b>                                     |  | <b>7 MHz</b>  |  | *EA4FLY.....2,356                        |  |
| 3V8CB (YT3W).....10,758,020                |  | YO8DDP.....135,182                                  |  | LY2IJ.....333,402                                  |  | ZC4LI.....4,770,336                                 |  | <b>21 MHz</b>                            |  |
| FM5BH.....6,030,288                        |  | 4X1VF.....67,952                                    |  | OL7M (OK1CW).....284,598                           |  | LU5OM.....700,494                                   |  | *PU8TEP.....28,531                       |  |
| ZC4LI.....4,770,336                        |  | LZ1MG.....48,151                                    |  | YR5N (YO5PBF).....112,308                          |  | YU2A.....551,688                                    |  | *RA3MAV.....19,376                       |  |
| <b>3.5 MHz</b>                             |  | <b>21 MHz</b>                                       |  | <b>SINGLE OPERATOR ASSISTED LOW POWER ALL BAND</b> |  | <b>3.5 MHz</b>                                      |  | *JO3RCK.....1,404                        |  |
| E71A.....1,659,024                         |  | HG3IPA (HA3JB).....249,568                          |  | *RG9A (UA9AM).....4,380,350                        |  | HA3LI.....789,360                                   |  | <b>14 MHz</b>                            |  |
| F2DX.....1,433,964                         |  | CX2AQ.....145,848                                   |  | *UA9SP.....3,031,938                               |  | DD9WG.....30,120                                    |  | *SV2HWR.....336,259                      |  |
| SP3GEM (SP3HLM).....1,256,000              |  | RZ6HX.....117,660                                   |  | *YT3M (YU1YV).....2,947,680                        |  | <b>1.8 MHz</b>                                      |  | *UR5EFL.....60,610                       |  |
| <b>1.8 MHz</b>                             |  | <b>14 MHz</b>                                       |  | *LU5FF.....2,307,497                               |  | <b>TRIBANDER/SINGLE ELEMENT LOW POWER ALL BAND</b>  |  | *BG4FFM.....17,766                       |  |
| YO5AJR.....128,752                         |  | I0UZF.....410,130                                   |  | *RN4WA.....2,095,712                               |  | *UA9SP.....3,031,938                                |  | <b>7 MHz</b>                             |  |
| LY2OU.....95,570                           |  | UA6LCJ.....223,431                                  |  | <b>28 MHz</b>                                      |  | *TK/S59AA (S59AA).....2,424,200                     |  | *UW1WU.....336,922                       |  |
| OG4T.....52,471                            |  | HA6IAM.....215,376                                  |  | *UR2VA.....173,121                                 |  | *LU5FF.....2,307,497                                |  | *F4FEP.....5,382                         |  |
| <b>SINGLE OPERATOR LOW POWER ALL BAND</b>  |  | <b>7 MHz</b>  |  | *UR5LO.....169,443                                 |  | *OM5X (OM5XX).....1,888,020                         |  | <b>MULTI-OPERATOR SINGLE-TRANSMITTER</b> |  |
| *P49Y (AE6Y).....8,644,584                 |  | DL1DQY.....469,800                                  |  | *UA6AK.....148,608                                 |  | *CE3AA (XQ4CW).....1,771,761                        |  | P33W.....18,656,465                      |  |
| *PS2T (PY2NY).....5,296,600                |  | YU1WC.....400,510                                   |  | <b>21 MHz</b>                                      |  | <b>28 MHz</b>                                       |  | C4N.....12,092,345                       |  |
| *YN2GY (K9GY).....5,127,936                |  | S57T.....229,356                                    |  | *UU1AZ.....1,082,640                               |  | *UT8EU.....179,655                                  |  | RK9CWA.....10,729,320                    |  |
| *KH7B.....4,433,494                        |  | <b>3.5 MHz</b>                                      |  | *RC8I (RZ9HG).....539,392                          |  | *UA3QG.....168,128                                  |  | RT4F.....9,460,550                       |  |
| *TI5N (OH0XX).....3,997,952                |  | LY5G.....327,285                                    |  | *UK8AR.....460,360                                 |  | *RU3PU.....34,020                                   |  | LS1D.....8,950,139                       |  |
| <b>28 MHz</b>                              |  | OK1FKD.....192,468                                  |  | <b>14 MHz</b>                                      |  | <b>21 MHz</b>                                       |  | <b>MULTI-OPERATOR TWO-TRANSMITTER</b>    |  |
| *9A3VM.....429,450                         |  | SP4GL.....155,877                                   |  | *S53F.....1,198,891                                |  | *DH8BQA.....301,824                                 |  | C4I.....23,491,776                       |  |
| *PY2MTS.....321,180                        |  | <b>1.8 MHz</b>                                      |  | *PY7ZY.....819,624                                 |  | *UA3ABJ.....234,432                                 |  | PW7T.....20,892,576                      |  |
| *YO8AXP.....318,801                        |  | HA8BE.....59,343                                    |  | *YT2AAA.....587,010                                |  | *WA7LNW.....115,291                                 |  | PJ2T.....18,044,546                      |  |
| <b>21 MHz</b>                              |  | LY4BF.....17,372                                    |  | <b>7 MHz</b>                                       |  | <b>14 MHz</b>                                       |  | K1LZ.....14,081,100                      |  |
| *YR8B (YO8TOH).....816,945                 |  | DJ3GE.....612                                       |  | *M5E (G0CKV).....1,621,069                         |  | *S54A.....613,725                                   |  | OM7M.....12,611,960                      |  |
| *HG60VOTT (HA3UU).....695,956              |  | <b>SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND</b> |  | *OK1UG.....811,632                                 |  | *Z35F.....419,133                                   |  | <b>MULTI-OPERATOR MULTI-TRANSMITTER</b>  |  |
| *OL2N (OK1FDR).....470,984                 |  | KP2M (K3TEJ).....8,679,960                          |  | *EU1AZ.....719,468                                 |  | *UA1AFT.....382,630                                 |  | CQ3L.....28,736,154                      |  |
| <b>14 MHz</b>                              |  | UA9PC.....8,657,730                                 |  | <b>3.5 MHz</b>                                     |  | <b>7 MHz</b>  |  | ZW5B.....25,207,253                      |  |
| *SP4JCQ.....1,065,285                      |  | ER0VWV (UT5UDX).....8,078,556                       |  | *LY3CW.....399,500                                 |  | *M5E (G0CKV).....1,621,069                          |  | LZ9W.....19,955,741                      |  |
| *HG4F.....1,014,072                        |  | TC7M (RW3GU).....7,524,468                          |  | *SP6EIY.....327,816                                |  | *IV3NVN.....852,093                                 |  | DR1A.....19,565,450                      |  |
| *SN2K (SP2FWC).....671,316                 |  | LZ8E (LZ2BE).....6,903,472                          |  | *UT3L.....232,200                                  |  | *EU1AZ.....719,468                                  |  | RW2F.....16,508,788                      |  |
| <b>28 MHz</b>                              |  | <b>1.8 MHz</b>                                      |  | <b>7 MHz</b>                                       |  | <b>14 MHz</b>                                       |  |  |  |
| I17M (IK7JWY).....576,650                  |  | *YO2AQB.....7,808                                   |  | *M5E (G0CKV).....1,621,069                         |  | *S54A.....613,725                                   |  |  |  |
| <b>3.5 MHz</b>                             |  | *IC8POF.....1,914                                   |  | *IV3NVN.....852,093                                |  | *Z35F.....419,133                                   |  |  |  |
| *UA2FL.....711,350                         |  |   |  | *EU1AZ.....719,468                                 |  | *UA1AFT.....382,630                                 |  |  |  |
| *OM3ZWA.....602,160                        |  |   |  |  |  |   |  |  |  |
| *LY2GW.....487,976                         |  |   |  |  |  |   |  |  |  |
| *YT4A.....151,646                          |  |   |  |  |  |   |  |  |  |
| *UX5NQ.....115,978                         |  |   |  |  |  |   |  |  |  |
| *OK6Y (OK2PTZ).....110,544                 |  |   |  |  |  |   |  |  |  |
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## MARK II Hex 5-Band HF Beam Antenna

- Low noise results—approaches performance of closed loop antennas
- Pre-slit fiberglass—easy assembly
- Good results at 20 to 30 feet above ground
- Patented\*, balanced weather-proof feeder system!
- Small 11 ft. turning radius, weighs less than 25 pounds
- Full gain on 20, 17, 15, 12, 10 meter bands
- Can be turned with a light duty rotor—save money
- Has full length elements—no lossy coils or traps
- Requires no matching network—direct single 50  $\Omega$  coax feed

DXE-HEX5-STAP-2 5-Band Total Antenna Package.....\$599.95  
\*U.S. Patent D624,060

## Coaxial Cable Prep Tools

- Precision, two-step operation
- No nicks or scratches to conductor
- Long-lasting cutter blades
- For foam or solid dielectric cable preparation

|  |                                       |          |
|--|---------------------------------------|----------|
| DXE-UT-8213  | Cable Stripper for RG-8, RG-213, etc. | \$39.95  |
| DXE-UT-808X  | Cable Stripper for RG-8X, 9258, etc.  | \$39.95  |
| DXE-UT-80P   | PL-259 Assembly Tool.....             | \$22.95  |
| DXE-UT-80N   | 2-Piece N Connector Tool.....         | \$22.95  |
| <b>Now available in cost-saving tool kits with carrying case</b> |                                       |          |
| DXE-UT-CASE  | Molded carrying case only.....        | \$99.95  |
| DXE-UT-KIT1  | Basic Coax Cable Prep Kit.....        | \$99.95  |
| DXE-UT-KIT2  | Complete Coax Cable Prep Kit.....     | \$174.95 |

## Add Bands to Your BTW

Easiest assembly and tuning of any multi-band vertical!

|             |                                     |          |
|-------------|-------------------------------------|----------|
| HUS-48TV    | (10, 15, 20, 40m)                   | \$124.95 |
| HUS-58TV    | (10, 15, 20, 40, & 75-80m)          | \$159.95 |
| HUS-68TV    | (10, 15, 20, 30, 40, & 75-80m)      | \$189.95 |
| DXE-8X19-RT | Coax Jumper Cable to BTW Base.....  | \$16.95  |
| DXE-AOK-DCF | SO-239 Add-On Kit for BTW Base..... | \$22.95  |
| DXE-AOK-12M | 12m Add-On Kit for BTW.....         | \$59.95  |
| DXE-AOK-17M | 17m Add-On Kit for BTW.....         | \$69.95  |
| DXE-AOK-60M | 60m Add-On Kit for BTW.....         | \$74.95  |

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Any Radio Interface Cable\*, only \$12.95 when purchased with SignalLink™ unit

**YOUR TOTAL \$99.90**  
For your complete digital solution!  
\*except the special Elecraft K3 cable

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### Amplifiers

|             |                                |            |
|-------------|--------------------------------|------------|
| AMR-AL-811  | HF Amp, 600W, (3) 811A tubes   | \$679.00   |
| AMR-AL-811H | HF Amp, 800W, (4) 811A tubes   | \$819.00   |
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|                |  |                   |
|----------------|--|-------------------|
| DXE-80VA-3     | Full Size Performance 80M, only 43 ft. Tall              | \$349.95          |
| HYG-AV-640     | 8 Bands 40-6M, 25 ft. No Radials.....                    | Now Only \$379.95 |
| DXE-MBVE-1-4P  | 43 ft. Multi-Band Vertical/Radial Plate Package.....     | SPECIAL \$269.95  |
| DXE-MBVE-1-4UP | 43 ft. Multi-Band Vertical/UNUN Package.....             | SPECIAL \$289.95  |
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## DX ENGINEERING

### Coaxial Cable

All cable assemblies are built with silver plated Teflon® connectors, sealed with adhesive lined shrink tubing for a weather-resistant bond between the connector body and the coax and then 100% hi-pot high voltage tested to guarantee a quality brand name cable assembly you can count on.

### RG-213/U JSC-3780 Cable Assemblies with PL-259 Connectors

|                  |         |          |
|------------------|---------|----------|
| DXE-CBC-213JU003 | 3 ft.   | \$12.88  |
| DXE-CBC-213JU006 | 6 ft.   | \$15.88  |
| DXE-CBC-213JU012 | 12 ft.  | \$20.88  |
| DXE-CBC-213JU025 | 25 ft.  | \$29.88  |
| DXE-CBC-213JU050 | 50 ft.  | \$52.88  |
| DXE-CBC-213JU075 | 75 ft.  | \$71.88  |
| DXE-CBC-213JU100 | 100 ft. | \$91.88  |
| DXE-CBC-213JU125 | 125 ft. | \$112.88 |
| DXE-CBC-213JU150 | 150 ft. | \$133.88 |

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### RG-8/U JSC-3030 Cable Assemblies with PL-259 Connectors

|                  |         |          |
|------------------|---------|----------|
| DXE-CBC-008JU002 | 2 ft.   | \$12.88  |
| DXE-CBC-008JU003 | 3 ft.   | \$13.88  |
| DXE-CBC-008JU006 | 6 ft.   | \$16.88  |
| DXE-CBC-008JU012 | 12 ft.  | \$24.88  |
| DXE-CBC-008JU025 | 25 ft.  | \$39.88  |
| DXE-CBC-008JU050 | 50 ft.  | \$61.88  |
| DXE-CBC-008JU075 | 75 ft.  | \$85.88  |
| DXE-CBC-008JU100 | 100 ft. | \$108.88 |
| DXE-CBC-008JU125 | 125 ft. | \$139.88 |

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### RG-8X JSC-3060 Cable Assemblies with PL-259 Connectors

|                 |         |         |
|-----------------|---------|---------|
| DXE-CBC-8XJU002 | 2 ft.   | \$10.88 |
| DXE-CBC-8XJU003 | 3 ft.   | \$11.88 |
| DXE-CBC-8XJU006 | 6 ft.   | \$13.88 |
| DXE-CBC-8XJU012 | 12 ft.  | \$16.88 |
| DXE-CBC-8XJU025 | 25 ft.  | \$23.88 |
| DXE-CBC-8XJU050 | 50 ft.  | \$32.88 |
| DXE-CBC-8XJU075 | 75 ft.  | \$40.88 |
| DXE-CBC-8XJU100 | 100 ft. | \$47.88 |

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### SINGLE OPERATOR HIGH POWER ALL BAND

|              |           |
|--------------|-----------|
| KC3R (LZ4AX) | 6,532,302 |
| AA3B         | 5,532,196 |
| AJ1I (K8PO)  | 5,517,941 |
| WC1M         | 5,361,419 |
| K3ZO         | 3,964,797 |

### 28 MHz

|                 |         |
|-----------------|---------|
| WN1GIV/4 (N4BP) | 320,306 |
| K5DU            | 150,894 |
| AB7E            | 35,483  |

### 21 MHz

|             |         |
|-------------|---------|
| NR5M (NM5M) | 713,094 |
| W4SVO       | 602,490 |
| K8IA/7      | 323,360 |

### 14 MHz

|             |           |
|-------------|-----------|
| NN1N        | 2,216,760 |
| NM5M (K5GA) | 2,014,517 |
| KT3M        | 1,548,063 |

### 7 MHz

|             |         |
|-------------|---------|
| NG5A (N1XS) | 474,897 |
| W0EWD       | 431,208 |
| AB9H        | 400,327 |

### 3.5 MHz

|                  |        |
|------------------|--------|
| W5MJ (W5MJ@W5PR) | 65,567 |
|------------------|--------|

### 1.8 MHz

|               |        |
|---------------|--------|
| KT2Z/5 (K5NA) | 28,676 |
| KQ8M          | 12,728 |

### SINGLE OPERATOR LOW POWER ALL BAND

|              |           |
|--------------|-----------|
| *NN5J (N5DX) | 2,626,140 |
| *W3EF        | 2,437,827 |
| *NV1N (N1UR) | 2,062,368 |
| *WJ9B/4      | 1,897,920 |
| *KS9K (N4TZ) | 1,474,998 |

### 28 MHz

|              |        |
|--------------|--------|
| *KN4Y        | 28,350 |
| *NA4W (K4WI) | 21,109 |
| *N9TF        | 2,331  |

### 21 MHz

|         |         |
|---------|---------|
| *WB4TDH | 124,509 |
| *K8AJS  | 61,770  |
| *WA7NWL | 7,504   |

### 14 MHz

|              |         |
|--------------|---------|
| *KM6Z        | 157,530 |
| *NJ3K        | 130,255 |
| *W2AW (N2GM) | 128,594 |

### 7 MHz

|        |         |
|--------|---------|
| *W2EG  | 841,759 |
| *K9UIY | 216,500 |
| *KZ3M  | 209,729 |

### 3.5 MHz

|         |        |
|---------|--------|
| *AB1J   | 48,000 |
| *AC0DS  | 35,250 |
| *WB8JUI | 18,382 |

### 1.8 MHz

|       |     |
|-------|-----|
| *K4WI | 351 |
|-------|-----|

### SINGLE OPERATOR QRP ALL BAND

|                |         |
|----------------|---------|
| N7IR           | 403,170 |
| W4QO           | 400,830 |
| W6QU/0 (W8QZA) | 352,401 |
| N5DO           | 293,728 |
| AA1CA          | 270,458 |

### 28 MHz

|       |        |
|-------|--------|
| W5GAI | 32,250 |
| AB8FJ | 156    |
| N1VVV | 80     |

### 21 MHz

|        |        |
|--------|--------|
| WA6FGV | 22,032 |
| N6WG   | 14,952 |

### 14 MHz

|        |        |
|--------|--------|
| N8HP   | 59,168 |
| W7JL/0 | 46,359 |
| NT2DR  | 18,600 |

### 7 MHz

|       |        |
|-------|--------|
| NE6M  | 50,673 |
| K3TW  | 32,700 |
| N2JNZ | 15,824 |

### SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND

|                |           |
|----------------|-----------|
| WU3A/1         | 4,139,520 |
| K3WW           | 3,769,519 |
| WK1Q (K1MK)    | 3,147,290 |
| NS1S/4 (K1ZZI) | 2,492,952 |
| W5MX/4         | 2,271,132 |

### 21 MHz

|              |         |
|--------------|---------|
| WZ7ZR (W7ZR) | 158,063 |
|--------------|---------|

### 14 MHz

|         |           |
|---------|-----------|
| K0LUZ/4 | 1,363,716 |
| N2MM    | 1,233,940 |
| WO4O    | 1,100,840 |

### 7 MHz

|      |       |
|------|-------|
| N3GJ | 9,840 |
|------|-------|

### 3.5 MHz

|      |         |
|------|---------|
| W4PK | 177,946 |
|------|---------|

### SINGLE OPERATOR ASSISTED LOW POWER ALL BAND

|         |         |
|---------|---------|
| *W1FA   | 423,108 |
| *AA4LR  | 421,935 |
| *NV4B   | 288,090 |
| *N0SXX  | 274,596 |
| *N3CZ/4 | 268,920 |

### 28 MHz

|         |       |
|---------|-------|
| *ND6S   | 1,677 |
| *WD4DDU | 322   |

### 21 MHz

|         |         |
|---------|---------|
| *WA7LNW | 115,291 |
|---------|---------|

### 14 MHz

|        |         |
|--------|---------|
| *NW4V  | 125,255 |
| *WB2AA | 96,555  |
| *K7FA  | 43,492  |

### 7 MHz

|                  |         |
|------------------|---------|
| *N4NX            | 298,480 |
| *N7MAL           | 81,065  |
| *KN6VVH/7 (W6NF) | 27,700  |

### 3.5 MHz

|          |        |
|----------|--------|
| *W8AEF/7 | 44,250 |
|----------|--------|

### TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND

|               |           |
|---------------|-----------|
| NX0X/4 (N4PN) | 3,086,655 |
| AB3CX/2       | 2,067,440 |
| N1WR/3        | 1,736,640 |
| KR4F          | 1,404,718 |
| K3MD          | 1,389,584 |

### 28 MHz

|                 |         |
|-----------------|---------|
| WN1GIV/4 (N4BP) | 320,306 |
| AB7E            | 35,483  |

### 21 MHz

|              |         |
|--------------|---------|
| WZ7ZR (W7ZR) | 158,063 |
| N4NM         | 16,376  |

### 14 MHz

|             |         |
|-------------|---------|
| W4CU        | 440,360 |
| W6AEA/7     | 310,500 |
| NQ5D (K5NZ) | 280,908 |

### 7 MHz

|      |        |
|------|--------|
| K4XD | 10,335 |
|------|--------|

### TRIBANDER/SINGLE ELEMENT LOW POWER ALL BAND

|                 |           |
|-----------------|-----------|
| *NA4K           | 1,247,076 |
| *KV8Q           | 798,391   |
| *KW2G/1 (W1WBB) | 795,476   |
| *KZ9O (KB9OWD)  | 646,815   |
| *K2PO/7         | 562,650   |

### 28 MHz

|       |       |
|-------|-------|
| *N9TF | 2,331 |
| *W5KI | 15    |

### 21 MHz

|          |         |
|----------|---------|
| *WA7LNW  | 115,291 |
| *WA7NWL  | 7,504   |
| *W4JHC/5 | 3       |

### 14 MHz

|       |         |
|-------|---------|
| *NW4V | 125,255 |
|-------|---------|

### \*K7FA

|         |        |
|---------|--------|
| *N15L/7 | 43,492 |
|         | 31,624 |

### 7 MHz

|         |         |
|---------|---------|
| *KS5A/7 | 182,206 |
| *K0PK   | 84,796  |
| *N7MAL  | 81,065  |

### 3.5 MHz

|          |        |
|----------|--------|
| *AB1J    | 48,000 |
| *W8AEF/7 | 44,250 |
| *WW1M    | 3,395  |

### ROOKIE LOW POWER ALL BAND

|           |        |
|-----------|--------|
| *K2DSL    | 67,500 |
| *AF6EV    | 59,840 |
| *K6MEE    | 28,980 |
| *KF7ADB/4 | 19,929 |
| *W4IR     | 13,050 |

### MULTI-OPERATOR SINGLE-TRANSMITTER

|        |           |
|--------|-----------|
| NY4A   | 5,841,118 |
| NJ4M   | 4,844,296 |
| KX7M/6 | 3,975,669 |
| NG7M   | 2,391,264 |
| W7VJ   | 1,918,080 |

### MULTI-OPERATOR TWO-TRANSMITTER

|        |            |
|--------|------------|
| K1LZ   | 14,081,100 |
| KD4D/3 | 11,223,000 |
| NY6N   | 6,573,159  |
| WX3B   | 5,128,932  |
| ND2T/6 | 5,079,270  |

### MULTI-OPERATOR MULTI-TRANSMITTER

|        |            |
|--------|------------|
| KM3T/1 | 14,733,230 |
| NQ4L   | 10,921,286 |
| NR4M   | 10,876,056 |
| NR6O   | 5,612,130  |
| NI6T   | 1,885,520  |

OK1DVM, took the win over fellow countrymen Milan, OK2BYW, and Antonin, OK7CM. Gary, N7IR, took first place in the USA and tenth place overall. Jim, W4QO, finished just 2k points behind Gary.

Arsene, YO8DDP, had an excellent score to finish well ahead of the competition on 10 meters. Gab, HA3JB, operated from the International Police Association club station HG3IPA, to win 15 meters. Twenty meters was led by Francesco, I0UFZ. The highest QRP single band score was on 40 meters by Klaus, DL1DQY, who faced strong competition from Vladimir, YU1WC. The biggest score on 80 meters by far was from Vitas, LY5G. Bela, HA8BE, did an amazing job to make 196 contacts in winning 160 meters

### Single-Operator Assisted

If you operated the contest and used any help other than your own two ears to find and work stations, then you must be in the Assisted category. It's a fun category that is enjoyed by casual participants chasing new countries or prefixes, as well as serious competitors who want extra information about what is happening on the bands. The High Power All Band category was a very close race with John, K3TEJ, at KP2M finishing only 20k points ahead of Anatoly, UA9PC. Sergey, UT5UDX, visited ER0WW for third place. It was Gene, WU3A, who backed up his USA win on SSB with one on CW.

The Low Power All Band category was a race between two Asiatic Russians. Yuri,

UA9AM, used his RG9A contest call to set a new world record for the category and finish ahead of Yuri, UA9SP. YT3M, operated by Acim, YU1YV, was the top European score in third place overall. Less than 2000 points separated the top two USA scores. Kirk, W1FA, just got by Bill, AA4LR.

Serge, UR2VA, bested fellow countryman Alex, UR5LO, on 10 meters. Dmytro, UU1AZ, set a new world record in winning 15 meters. Vinko, S53F, took the 20 meter title. Cicero, PY7ZY, set a new South American record, finishing second. Forty meters was dominated by Olof, G0CKV, operating as M5E. Alozyas, LY3CW, was

the champion on 80 meters. Bill, N4NX, set a new USA record on 40 meters and Paul, W8AEF, did the same on 80 meters.

### Overlay Categories

The overlay categories were made available to all single operator entrants this year, and 601 operators took advantage of the opportunity to compete in these separate contests-within-a-contest. For the overlay categories, we combine all entries into high or low power. Winner of the Tribander/Single Element category for high power was Pertti, OH2PM, at TC4X. Matija, S53MM, took second just

### Logging Accuracy

We received a record 3567 logs for the WPX CW contest this year. The poor conditions resulted in a 10% decline in total QSOs to 2,080,844. The log-checking process continues to improve and we were able to cross check 82.5% of all QSOs against another log. It is interesting to note that 58.4% of the unique calls (calls worked by only one station) were found to be errors. Since a broken callsign loses the contact plus a penalty of additional QSO points, it pays to get the calls correct.

It is not always easy for the operators who activate unusual prefixes, as many people do struggle copying their call. The callsigns that caused the most logging errors were LZ65P, OL26LP, and PA44N. Petr, OK1CZ, was the operator at OL26LP and offered this advice: "Do not use a two-figure prefix ending with number 4 or 6, as this can be copied as V or B." Even well-known contest calls such as HG1S and ES9C were often copied incorrectly.

Even with the deep log checking, there were still 143 stations that produced logs with no score reductions. The top "golden" logs (with number of QSOs) were: WT5R (369), RU3VV (222), RA3BT (184), OZ5UR (175), RK6ASY (173), and RA0AY (173).

The average score reduction for all single operator entries was 12.9%. For the top 20 Single Operator All Band scores, the average reduction was 5.8%. Detailed log-checking reports are available for every submitted log and may be requested by sending an e-mail to <k5zd@cqwpx.com>.

# SLOPER ANTENNAS

By Juergen A. Weigl, OE5CWL

## Single- and Multi-Element Directive Antennas for the Low Bands

With calculations and practical experience, this book shows which basic concepts have to be considered for sloper antennas for the low bands. These fundamentals are supplemented by construction guidelines for directive antennas using a single element or several elements. Previously, gathering all the necessary information to construct an effective sloper for a particular application was tedious and time consuming. You'll find all the information needed for successful home building of the antennas.

**Some of the Topics:** Vertical dipole and sloper in free space, over perfect or real ground • sloper with several elements • feeding sloper antennas • multi-band sloper • W3DZZ and double Zepp as a sloper antenna • multi-element sloper antennas for multi-band operation • special types of halfwave sloper antennas and much more!



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The Rookie category does not attract the same attention on CW as it does on SSB, but we were very pleased to have 32 entries. Mikko, OH8FKU, gave everyone a new prefix with the call OF5ØRR and finished ahead of Sebastian, OH7FKV. Keep an eye on these two in the future! David, K2DSL, just beat out last year's winner David, AF6EV, for the top USA score.

The winning Multi-Operator Single-Transmitter score was gained by P33W operated by RW4WR, RV1AW, and RA3AUU. They used a WRTC-style lockout system to maximize their score while only allowing one transmitted signal at a time. It was another Cyprus station, C4N, finishing in second. A seven-operator team drove RT4F to the top spot in Europe. Take a look at how close the scores were between LS1D, ES9C, and E7DX. In the USA, it was NY4A getting past NJ4M on the basis of a much higher points per QSO.

The Multi-Multi stations provide a reference point to show us what is truly possible across all bands. The team at CQ3L had the highest score in the contest and set a new record for Africa. It was a bit of a confusing callsign, as some people simply logged it as "3L." LZ9W and DR1A continued their friendly rivalry for top score in Europe. This year it was LZ9W winning the plaque. USA winner KM3T operated from the station of KC1XX and used the contest to test new logging software.

There were 151 clubs from around the world that met the requirement of three or more logs to be listed in the results. Once again, the highest club score came from the Bavarian Contest Club (BCC) in southern

We were saddened to hear the news that long-time WPX Award manager Norm Koch, WN5N (ex-K6ZDL), became a Silent Key in November 2010. Norm was CQ WPX Award Manager for nearly a quarter century, from December 1981 to August 2006. To honor his memory, Gail, K2RED, is sponsoring a new plaque for 2011 that is focused on Norm's interest in prefixes – Single-Operator Highest Combined SSB/CW Prefix Total. Please contact Doug, K1DG, if you have an interest in sponsoring a plaque for the WPX Contest.

There are a lot of people who work to help make the WPX contest such a success. Thanks to AL1G, DL8MBS, ES5JR, G0SYP, K0HB, K1PX, K2DSL, K8PO, N1XS, N5IE, N8RA, NJ1F, UA4FER, W2JU, W7ZR, and W8AEF for their help in typing in all of the paper logs. F6BEE maintains the club name database. Thanks to Barry, W5GN, for han-

SINGLE OPERATOR HIGH POWER ALL BAND

\*S57DX.....2,056,256

\*S51F.....1,930,480

\*ER6A.....1,725,584

CR6K (CT1ILT).....6,922,045

4O3A.....6,493,360

UW2M (UR0MC).....5,807,730

RS3A (RA3CW).....5,548,400

LZ3FN.....5,353,144

28 MHz

9A1CCY (9A3NM).....978,924

YT2T.....908,600

AQ3T (EA3AKY).....601,145

21 MHz

YU1KX.....1,420,710

LY8O.....1,089,622

YL2SM.....798,970

14 MHz

CT1JLZ (OK1RF).....4,875,330

S50K.....2,704,130

S55T (S57AL).....2,525,910

7 MHz

YT0A (YT1CI).....4,036,702

OK1Z (OK1DKZ).....3,354,720

OK1FPS.....2,568,660

3.5 MHz

E71A.....1,659,024

F2DX.....1,433,964

SP3GEM (SP3HLM).....1,256,000

1.8 MHz

YO5AJR.....128,752

LY2OU.....95,570

OG4T.....52,471

SINGLE OPERATOR LOW POWER ALL BAND

\*OL6P (OK2PP).....2,443,150

\*TK/S59AA.....2,424,200

\*L29R (LZ3YY).....2,141,988

\*DD5M (DJ0ZY).....1,830,045

\*RM7M.....1,849,907

28 MHz

\*9A3VM.....429,450

\*YO8AXP.....318,801

\*EF5K (EA5DWS).....301,290

21 MHz

\*YR8B (YO8TOH).....816,945

\*HG60VOTT (HA3UU).....695,956

\*OL2N (OK1FDR).....470,984

14 MHz

\*SP4JCQ.....1,065,285

\*HG4F.....1,014,072

\*SN2K (SP2FWC).....671,316

7 MHz

\*S57DX.....2,056,256

\*S51F.....1,930,480

\*ER6A.....1,725,584

3.5 MHz

\*UA2FL.....711,350

\*OM3ZWA.....602,160

\*LY2GW.....487,976

1.8 MHz

\*YT4A.....151,646

\*UX5NQ.....115,978

\*OK6Y (OK2PTZ).....110,544

SINGLE OPERATOR QRP ALL BAND

TM77M (F5MUX).....1,951,964

OK1DVM.....1,756,188

OK2BYY.....1,369,887

OK7CM.....1,297,322

TM3T (F5VBT).....808,152

28 MHz

YO8DDP.....135,182

LZ1MG.....48,151

HA7VK.....37,848

21 MHz

HG3IPA (HA3JB).....249,568

RZ6HX.....117,660

SP4GFG.....80,456

14 MHz

I0UZF.....410,130

UA6LCJ.....223,431

HA6IAM.....215,376

7 MHz

DL1DQY.....469,800

YU1WC.....400,510

S57T.....229,356

3.5 MHz

LY5G.....327,285

OK1FKD.....192,468

SP4GL.....155,877

1.8 MHz

HA8BE.....59,343

LY4BF.....17,372

DJ3GE.....612

SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND

ER0WW (UT5UDX).....8,078,556

LZ8E (LZ2BE).....6,903,472

G6PZ (GI0RTN).....5,607,756

DL3TD.....5,418,000

YQ9W (YO9GDN).....4,933,055

28 MHz

II7M (IK7JWY).....576,650

IT9VDQ.....529,686

S53O.....522,309

21 MHz

IT9BLB.....1,489,644

IQ2CJ (IK2PFL).....1,194,248

OL8R.....1,005,024

14 MHz

IR2C (IK2JUB).....2,790,264

OL3Z (OK1HMP).....2,278,748

YT4W (YU1DW).....2,194,943

7 MHz

YU1LA.....4,406,565

UT5UGR.....3,398,725

9A5MT.....3,102,870

3.5 MHz

LY7M.....1,043,289

EUI1UN.....988,097

II1H (II1HJT).....910,860

1.8 MHz

LY2IJ.....333,402

OL7M (OK1CW).....284,598

YR5N (YO5PBF).....112,308

SINGLE OPERATOR ASSISTED LOW POWER ALL BAND

\*YT3M (YU1YV).....2,947,680

\*RN4WA.....2,095,712

\*OM5X (OM5XX).....1,888,020

\*YQ5Q (YO5OHO).....1,558,540

\*OK1TA.....1,509,680

28 MHz

\*UR2VA.....173,121

\*UR5LO.....169,443

\*UA6AK.....148,608

21 MHz

\*UU1AZ.....1,082,640

\*DH8BOA.....301,824

\*UA3AO.....203,490

14 MHz

\*S53F.....1,198,891

\*YT2AAA.....587,010

\*YU1R (YT1NP).....554,830

7 MHz

\*M5E (G0CKV).....1,621,069

\*OK1UG.....811,632

\*EU1AZ.....719,468

3.5 MHz

\*LY3CW.....399,500

\*SP6EIY.....327,816

\*UT3L.....232,200

1.8 MHz

\*YO2AOB.....7,808

\*IC8POF.....1,914

TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND

S53MM.....4,722,668

S50C (S53CC).....4,171,825

IK0YVV.....3,769,880

M9X (G4MKP).....3,258,405

MJ/W1NN (W1NN).....2,973,225

28 MHz

9A2U (9A3ZA).....482,664

OH3BU.....289,161

UA6AA.....183,586

21 MHz

EA5FID.....641,538

OI6X (OH6NJ).....333,000

G7N (G0ORH).....292,600

14 MHz

EU1FC.....1,209,663

OR2A (ON7YX).....840,155

UY7C (UR3CMA).....742,368

7 MHz

YU2A.....551,688

G3MZV.....425,568

UY2ZZ.....229,152

3.5 MHz

HA3LI.....789,360

1.8 MHz

DD9WG.....30,120

TRIBANDER/SINGLE ELEMENT HIGH POWER ALL BAND

\*TK/S59AA.....2,424,200

\*OM5X (OM5XX).....1,888,020

\*YO3APJ.....1,615,768

\*EF3A (EA3KU).....1,546,230

\*OK1TA.....1,509,680

28 MHz

\*UT8EU.....179,655

\*UA3QG.....168,128

\*RU3PU.....34,020

21 MHz

\*DH8BQA.....301,824

\*UA3ABJ.....234,432

\*CT1BWW.....97,812

14 MHz

\*S54A.....613,725

\*Z35F.....419,133

\*UA1AFT.....382,630

7 MHz

\*M5E (G0CKV).....1,621,069

\*IV3NVN.....852,093

\*EU1AZ.....719,468

3.5 MHz

\*SN5Q (SQ5RDX).....300,196

\*PC600P (PA0MIR).....11,323

1.8 MHz

\*YT4Y.....151,646

ROOKIE ALL BAND

\*OF50RR (OH8FKU).....686,070

\*OH7FKV.....558,999

\*RN3DKE.....55,596

\*UR0EG.....23,808

\*DO3QQ.....11,139

28 MHz

\*SQ5STS.....2,604

\*EA4FLY.....2,356

21 MHz

\*RA3MAV.....19,376

IT9IMJ.....13,578

14 MHz

\*SV2HWR.....336,259

\*UR5EFL.....60,610

7 MHz

\*UW1WU.....336,922

\*F4FEP.....5,382

MULTI-OPERATOR SINGLE-TRANSMITTER

RT4F.....9,460,550

E59C.....8,946,126

E7DX.....8,917,915

E73M.....8,564,307

RU1A.....8,331,312

MULTI-OPERATOR TWO-TRANSMITTER

OM7M.....12,611,960

LX7I.....11,283,975

DQ4W.....10,803,466

DM9K.....10,527,160

HG1S.....10,033,401

MULTI-OPERATOR MULTI-TRANSMITTER

LZ9W.....19,955,741

DR1A.....19,565,450

RW2F.....16,508,788

LY7A.....9,729,286

OP4K.....3,420,075



# SSB & CW COMBINED CLUB SCORES

| UNITED STATES                        |         |             |  |
|--------------------------------------|---------|-------------|--|
| Club                                 | Entries | Score       |  |
| NORTHERN CALIFORNIA CONTEST CLUB     | 110     | 190,075,001 |  |
| YANKEE CLIPPER CONTEST CLUB          | 85      | 151,862,440 |  |
| POTOMAC VALLEY RADIO CLUB            | 101     | 145,303,572 |  |
| SOUTH EAST CONTEST CLUB              | 37      | 71,880,356  |  |
| FRANKFORD RADIO CLUB                 | 42      | 67,718,641  |  |
| SOCIETY OF MIDWEST CONTESTERS        | 77      | 60,293,481  |  |
| FLORIDA CONTEST GROUP                | 54      | 56,496,877  |  |
| SOUTHERN CALIFORNIA CONTEST CLUB     | 40      | 55,344,263  |  |
| CENTRAL TEXAS DX AND CONTEST CLUB    | 35      | 34,262,712  |  |
| WILLAMETTE VALLEY DX CLUB            | 35      | 32,732,770  |  |
| TENNESSEE CONTEST GROUP              | 43      | 30,950,589  |  |
| MAD RIVER RADIO CLUB                 | 28      | 21,602,677  |  |
| HUDSON VALLEY CONTESTERS AND DXERS   | 21      | 20,096,632  |  |
| NORTH COAST CONTESTERS               | 9       | 19,892,831  |  |
| WESTERN WASHINGTON DX CLUB           | 26      | 18,410,387  |  |
| MINNESOTA WIRELESS ASSN              | 26      | 17,932,306  |  |
| ALABAMA CONTEST GROUP                | 27      | 15,245,641  |  |
| GRAND MESA CONTESTERS OF COLORADO    | 21      | 11,298,874  |  |
| ARIZONA OUTLAWS CONTEST CLUB         | 66      | 9,852,537   |  |
| NORTH TEXAS CONTEST CLUB             | 13      | 8,048,162   |  |
| LOUISIANA CONTEST CLUB               | 13      | 7,786,625   |  |
| SOUTHWEST OHIO DX ASSOCIATION        | 5       | 7,503,944   |  |
| KANSAS CITY DX CLUB                  | 12      | 7,106,155   |  |
| EMPIRE CONTEST CLUB                  | 4       | 5,982,375   |  |
| SPOKANE DX ASSOCIATION               | 16      | 5,663,782   |  |
| ORDER OF BOILED OWLS OF NEW YORK     | 8       | 2,574,901   |  |
| CTRI CONTEST GROUP                   | 9       | 2,568,294   |  |
| ROCHESTER (NY) DX ASSN               | 12      | 1,748,342   |  |
| NORTHEAST WISCONSIN DX ASSN          | 4       | 1,377,480   |  |
| NORTHERN ARIZONA DX ASSN             | 5       | 1,342,363   |  |
| IOWA DX AND CONTEST CLUB             | 4       | 1,317,492   |  |
| CAROLINA DX ASSOCIATION              | 8       | 1,124,496   |  |
| TEXAS DX SOCIETY                     | 6       | 1,033,415   |  |
| MISSOURI DX/CONTEST CLUB             | 4       | 945,639     |  |
| BERGEN ARA                           | 7       | 927,744     |  |
| MOTHER LODGE DX/CONTEST CLUB         | 6       | 912,670     |  |
| ALLEGHENY VALLEY RADIO ASSOCIATION   | 4       | 900,602     |  |
| UTAH DX ASSOCIATION                  | 9       | 857,927     |  |
| NORTHERN ROCKIES DX ASSOCIATION      | 3       | 840,677     |  |
| PORTAGE COUNTY AMATEUR RADIO SERVICE | 9       | 744,564     |  |
| KENTUCKY CONTEST GROUP               | 5       | 643,405     |  |
| STERLING PARK AMATEUR RADIO CLUB     | 5       | 583,372     |  |
| MAGNOLIA DX ASSOCIATION              | 4       | 533,861     |  |
| SKYVIEW RADIO SOCIETY                | 7       | 407,842     |  |
| WESTERN NEW YORK DX ASSOCIATION      | 7       | 407,474     |  |
| GREAT SOUTH BAY AMATEUR RADIO CLUB   | 4       | 279,936     |  |
| WEST PARK RADIOPS                    | 6       | 269,260     |  |
| MERIDEN ARC                          | 6       | 262,048     |  |
| METRO DX CLUB                        | 3       | 257,287     |  |
| MIDLAND AMATEUR RADIO CLUB           | 4       | 256,126     |  |
| DELAWARE LEHIGH AMATEUR RADIO CLUB   | 5       | 229,440     |  |
| MISSISSIPPI VALLEY DX/CONTEST CLUB   | 4       | 172,669     |  |

| DX   |         |             |  |
|--|---------|-------------|--|
| Club                                       | Entries | Score       |  |
| BAVARIAN CONTEST CLUB                      | 197     | 289,001,968 |  |
| RHEIN RUHR DX ASSOCIATION                  | 150     | 234,973,333 |  |
| ARAUCARIA DX GROUP                         | 43      | 173,845,851 |  |
| LU CONTEST GROUP                           | 51      | 158,826,567 |  |
| CONTEST CLUB ONTARIO                       | 67      | 107,583,924 |  |
| BLACK SEA CONTEST CLUB                     | 76      | 100,909,181 |  |
| SLOVENIA CONTEST CLUB                      | 39      | 99,389,261  |  |
| UKRAINIAN CONTEST CLUB                     | 95      | 89,314,658  |  |
| URAL CONTEST GROUP                         | 39      | 81,963,094  |  |
| LZ CONTEST TEAM                            | 3       | 69,444,551  |  |
| BOSNIA AND HERZEGOVINA CONTEST CLUB        | 13      | 61,151,552  |  |
| CONTEST CLUB FINLAND                       | 35      | 59,476,474  |  |
| KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB | 45      | 55,021,914  |  |
| SP DX CLUB                                 | 74      | 51,466,052  |  |
| HUNGARIAN DX CLUB                          | 12      | 47,782,323  |  |
| VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB      | 13      | 44,120,975  |  |
| RUSSIAN CONTEST CLUB*                      | 30      | 43,098,221  |  |
| CARIBBEAN CONTESTING CONSORTIUM*           | 3       | 38,658,165  |  |
| CROATIAN CONTEST CLUB                      | 35      | 38,580,958  |  |
| VK CONTEST CLUB*                           | 16      | 38,198,380  |  |
| LATVIAN CONTEST CLUB                       | 34      | 37,779,130  |  |
| WEST SERBIA CONTEST CLUB                   | 5       | 32,843,746  |  |
| ALRS ST PETERSBURG                         | 18      | 29,090,036  |  |
| SKY CONTEST CLUB                           | 8       | 24,663,522  |  |
| BRITISH COLUMBIA DX CLUB                   | 12      | 23,765,853  |  |
| LES NOUVELLES DX                           | 11      | 22,036,471  |  |
| CANTAREIRA DX GROUP                        | 17      | 20,274,696  |  |
| LA CONTEST CLUB                            | 9       | 19,445,456  |  |
| YU CONTEST CLUB                            | 18      | 19,239,437  |  |
| UA2 CONTEST CLUB                           | 7       | 18,123,689  |  |
| LITHUANIAN CONTEST GROUP                   | 13      | 17,731,478  |  |
| BELARUS CONTEST CLUB                       | 14      | 16,570,518  |  |
| ARIPA DX TEAM                              | 3       | 15,880,714  |  |
| CE CONTEST GROUP                           | 7       | 15,807,221  |  |
| AUSTRIAN CONTEST CLUB                      | 7       | 15,030,244  |  |
| MARITIME CONTEST CLUB                      | 18      | 14,984,644  |  |
| RIO DX GROUP                               | 28      | 14,568,799  |  |
| DXCOLOMBIA AMATEUR RADIO CLUB              | 6       | 13,455,822  |  |
| WORLD WIDE YOUNG CONTESTERS*               | 16      | 12,373,129  |  |
| BELOKRANJEC CONTEST CLUB                   | 7       | 12,057,787  |  |
| YO DX CLUB                                 | 35      | 12,030,486  |  |
| SOUTH URAL CONTEST CLUB                    | 15      | 11,166,306  |  |
| FOX CONTEST CLUB                           | 8       | 10,608,470  |  |
| CENTRAL SIBERIA DX CLUB                    | 10      | 10,470,136  |  |
| TARTU CONTEST TEAM                         | 3       | 10,420,261  |  |
| CONTEST GROUP DU QUEBEC                    | 11      | 9,843,765   |  |
| ATCC*                                      | 13      | 8,664,000   |  |
| RADIOAMPT                                  | 3       | 8,620,145   |  |

|   |    |           |
|---|----|-----------|
| ANTWERP CONTEST CLUB                          | 4  | 8,604,404 |
| CHILTERN DX CLUB                              | 16 | 8,591,315 |
| RADIO CLUB HENARES                            | 5  | 8,323,224 |
| GIPANIS CONTEST GROUP                         | 11 | 7,742,853 |
| MICHURINSK CONTEST GROUP                      | 6  | 6,921,989 |
| VRHNIKA CONTESTERS                            | 15 | 6,269,682 |
| GUARA DX GROUP                                | 15 | 6,106,570 |
| BIZ CLUB                                      | 3  | 5,864,614 |
| CS PETROLUL PLOIESTI                          | 5  | 5,480,911 |
| BRIMHAM CONTEST GROUP                         | 4  | 5,077,638 |
| STAVROPOL REGION CONTEST CLUB                 | 6  | 5,032,213 |
| MOSCOW RADIO CLUB                             | 8  | 4,058,091 |
| CICEVAC CONTEST CLUB                          | 3  | 3,767,299 |
| SP CONTEST CLUB                               | 7  | 3,757,106 |
| BASHKORTOSTAN DX CLUB                         | 10 | 3,602,473 |
| TEMIRTAU CONTEST CLUB                         | 7  | 3,591,541 |
| NICOSIA CONTEST GROUP                         | 3  | 3,581,957 |
| CSM CRAIOVA                                   | 4  | 3,413,834 |
| TOP OF EUROPE CONTESTERS                      | 8  | 3,252,700 |
| GRUPO DXXE                                    | 7  | 3,244,847 |
| SIAM DX GROUP                                 | 6  | 3,218,297 |
| SAMARA RADIO CLUB                             | 5  | 3,061,397 |
| SK7OA SWEDISH SOUTHCOAST RADIOAMATEUR SOCIETY | 6  | 3,014,038 |
| DOMODEDOVO                                    | 4  | 2,897,578 |
| CSTA BUCURESTI                                | 4  | 2,844,514 |
| RADIO CLUB PARMA                              | 6  | 2,788,596 |
| LYNX DX GROUP                                 | 3  | 2,623,500 |
| ORENBURG CONTEST CLUB                         | 4  | 2,562,335 |
| FOSHAN AMATEUR RADIO CLUB                     | 3  | 2,546,717 |
| ARCK  | 10 | 2,546,475 |
| LOMA DEL TORO CONTEST CLUB                    | 3  | 2,459,641 |
| BALATON RADIOAMATEUR DX CLUB                  | 3  | 2,296,620 |
| VERENIGING VAN RADIO ZEND AMATEURS            | 4  | 2,268,915 |
| IRKUTSK RADIO CLUB                            | 3  | 2,036,952 |
| SARATOVSKAYA OBLAST RADIO CLUB                | 5  | 1,995,282 |
| YAROSLAVL CONTEST CLUB                        | 6  | 1,827,414 |
| BALKAN CONTEST CLUB                           | 3  | 1,636,587 |
| ARKTIKA                                       | 6  | 1,613,265 |
| DANISH DX GROUP                               | 5  | 1,602,810 |
| SK6AW HISINGENS RADIOKLUBB                    | 3  | 1,543,492 |
| RU-QRP CLUB                                   | 14 | 1,518,719 |
| KKKK CONTEST CLUB KRASNODARSKOGO KRAYA        | 3  | 1,499,020 |
| FRO-NORRTELJE                                 | 5  | 1,405,293 |
| RADIOCLUBUL RADU BRATU                        | 3  | 1,385,200 |
| ARGO  | 6  | 1,296,052 |
| DONBASS                                       | 9  | 1,292,275 |
| SK7DX SOUTHWEST SCANIA RADIOAMATEURS CLUB     | 8  | 1,289,157 |
| INSUBRIA RADIO CLUB                           | 4  | 1,249,705 |
| ROSTOV RADIO CLUB                             | 3  | 1,226,365 |
| AGB ACTIVITY GROUP OF BELARUS*                | 3  | 1,210,036 |
| 599 CONTEST CLUB                              | 7  | 1,205,955 |
| NANAIMO AMATEUR RADIO ASSOCIATION             | 3  | 1,196,734 |
| MAYCOPSKJ RADIO CLUB                          | 5  | 1,189,774 |
| SK5AA VASTERAS RADIOKLUBB                     | 5  | 1,130,514 |
| VU CONTEST GROUP                              | 10 | 1,007,053 |
| VOLYN CONTEST GROUP                           | 4  | 993,355   |
| ZENIT-RADIO                                   | 3  | 958,691   |
| DNEPR CONTEST GROUP                           | 5  | 950,342   |
| UKRAINIAN DX CLUB                             | 3  | 930,394   |
| GERMAN DX FOUNDATION                          | 4  | 910,628   |
| VLADIMIR RADIO CLUB                           | 10 | 879,991   |
| SASKATCHEWAN CONTEST CLUB                     | 4  | 846,877   |
| OBNINSK QRU CLUB                              | 5  | 842,839   |
| SPEKTR  | 3  | 789,532   |
| CZECH CONTEST CLUB                            | 4  | 750,741   |
| NOR NIZHEGORODSKOE AMATEUR RADIO COMMUNITY    | 3  | 699,425   |
| UPPSALA RADIOKLUB                             | 3  | 698,637   |
| CSR ISTRITA BUZAU                             | 3  | 618,544   |
| MARCONI CONTEST CLUB                          | 3  | 582,594   |
| NOVOSIBIRSK CONTEST CLUB                      | 3  | 567,252   |
| NOVOKUZNETSK RADIO CLUB                       | 7  | 545,303   |
| RTTY CONTESTERS OF JAPAN                      | 4  | 525,247   |
| OK QRP CLUB                                   | 3  | 518,948   |
| SHAKHAN CONTEST CLUB                          | 5  | 496,330   |
| FALKOPINGS RADIOCLUB                          | 7  | 474,573   |
| IZMAIL RADIO CLUB                             | 4  | 471,340   |
| HAROS RADIO CLUB                              | 4  | 469,061   |
| ARA AMIGOS RADIO ALTOARAGON                   | 3  | 440,582   |
| BEIJING SUNNY HAM CLUB                        | 4  | 414,182   |
| VORONEZH RADIO CLUB                           | 3  | 396,926   |
| UNION FRANCAISE DES TELEGRAPHISTES            | 3  | 378,162   |
| PALATUL COPILOR SI ELEVILOR ORADEA            | 4  | 336,659   |
| GRIMSBY AMATEUR RADIO SOCIETY                 | 3  | 318,032   |
| SPORT CLUB MIERCUREA-CIUC                     | 3  | 304,516   |
| HONDA R AND D HAM CLUB TOCHIGI                | 3  | 302,553   |
| ACTIVITY SMOLENSK GROUP                       | 3  | 296,352   |
| RADIOCLUBUL NOSTRU DIN CONSTANTA              | 3  | 263,805   |
| PODOLSK                                       | 6  | 260,524   |
| RADIO AMATEUR ASSOCIATION OF WESTERN GREECE   | 3  | 219,437   |
| BITTERN DX GROUP                              | 3  | 212,330   |
| EDIT14  | 3  | 196,632   |
| CSM BAIA MARE                                 | 3  | 184,353   |
| GRUPO ARGENTINO DE CW                         | 3  | 162,351   |
| DL-DX RTTY CONTEST GROUP                      | 3  | 144,220   |
| GMDX GROUP                                    | 3  | 141,219   |
| KALININGRAD RADIO CLUB                        | 5  | 138,496   |
| CWJF GROUP*                                   | 4  | 135,420   |
| WATERLAND                                     | 5  | 135,090   |
| CS SILVER FOX DEVA                            | 3  | 134,982   |
| WAIKIKI AMATEUR RADIO CLUB                    | 3  | 83,996    |
| KRIVBASS                                      | 3  | 82,723    |
| KRISTIANSTADS RADIOAMATORER                   | 3  | 50,360    |
| TURKISH SPECIAL WIRELESS ACTIVITY TEAM        | 3  | 30,163    |

\* Club entry does not meet all rules.



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ding the printing and mailing of over 1400 certificates. K1DG does a great job with the 63 different award plaques that are available. Thanks to Ken, K1EA, for continuing improvements in the log-checking software. We also appreciate the efforts of the CQ WW Contest Committee for their development of new log-checking methods.

For expanded results of the contest, including the QRM, operators of multi stations, and the full tables, go to the CQ website ([www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)).

The 2011 WPX CW Contest will be held on May 28 and 29. There are some small rule changes for the 2011 contest, so please read the rules very carefully (in the February issue of CQ magazine, on the CQ website, and on the WPX Contest website. Visit the frequently asked questions page on the CQ WPX Contest website ([www.cqwpw.com](http://www.cqwpw.com)). Please submit your WPX CW logs by e-mail to [cw@cqwpw.com](mailto:cw@cqwpw.com) before June 27, 2011.

See you in the next contest!

73, Randy, K5ZD

(Continued on page105)

**CQ WW WPX CW CONTEST  
ALL-TIME RECORDS**

The contest is held each year on the last full weekend of May. The All-Time Records are updated and published annually. Data shown below is: callsign, year of operation, total score, and number of prefix multipliers.

**WORLD RECORD HOLDERS****Single Operator**

|          |               |            |      |
|----------|---------------|------------|------|
| 1.8      | IH9/OL5Y('98) | 341,068    | 182  |
| 3.5      | TM5Y('08)     | 1,983,366  | 567  |
| 7.0      | 3V8CB('10)    | 10,758,020 | 805  |
| 14       | UP2L('09)     | 7,928,886  | 1043 |
| 21       | ZX5J('05)     | 7,061,000  | 920  |
| 28       | ZX5J('02)     | 6,787,440  | 857  |
| AB       | EF8M('10)     | 18,395,154 | 1026 |
| Assisted | CN3A('09)     | 12,900,240 | 943  |

**Multi-Operator Single Transmitter**

|           |            |      |
|-----------|------------|------|
| CT9M('08) | 24,125,802 | 1182 |
|-----------|------------|------|

**Multi-Operator Two Transmitters**

|           |            |      |
|-----------|------------|------|
| EF8M('07) | 33,324,192 | 1256 |
|-----------|------------|------|

**Multi-Operator Multi-Transmitter**

|           |            |      |
|-----------|------------|------|
| HC8N('99) | 54,697,072 | 1264 |
|-----------|------------|------|

**U.S.A. RECORD HOLDERS****Single Operator**

|          |            |           |     |
|----------|------------|-----------|-----|
| 1.8      | K1ZM('95)  | 40,446    | 107 |
| 3.5      | W3BGN('08) | 641,092   | 332 |
| 7.0      | KG1D('05)  | 3,594,822 | 651 |
| 14       | N2NC('06)  | 5,418,630 | 915 |
| 21       | NU5A('99)  | 4,411,299 | 789 |
| 28       | WW4M('01)  | 2,547,046 | 674 |
| AB       | KC3R('09)  | 9,597,400 | 806 |
| Assisted | K3WW('04)  | 5,997,446 | 806 |

**Multi-Operator Single Transmitter**

|           |            |     |
|-----------|------------|-----|
| K1LZ('09) | 10,691,724 | 964 |
|-----------|------------|-----|

**Multi-Operator Two Transmitters**

|           |            |      |
|-----------|------------|------|
| KM4M('04) | 16,283,745 | 1095 |
|-----------|------------|------|

**Multi-Operator Multi-Transmitter**

|           |            |      |
|-----------|------------|------|
| WE3C('09) | 21,910,252 | 1274 |
|-----------|------------|------|

**CLUB RECORD**

|                                   |             |
|-----------------------------------|-------------|
| Northern Calif. Contest Club('02) | 253,543,497 |
|-----------------------------------|-------------|

**WPX (Prefix) RECORD**

|           |      |
|-----------|------|
| DR1A('08) | 1313 |
|-----------|------|

**QRP/p RECORD**

|           |           |
|-----------|-----------|
| P40W('97) | 4,018,208 |
|-----------|-----------|

**CONTINENTAL RECORD HOLDERS****AFRICA**

|     |               |            |      |
|-----|---------------|------------|------|
| 1.8 | IH9/OL5Y('98) | 341,068    | 182  |
| 3.5 | 7X0RY('08)    | 1,701,260  | 407  |
| 7.0 | 3V8CB('10)    | 10,758,020 | 805  |
| 14  | 6W1SJ('09)    | 6,755,364  | 924  |
| 21  | 5X1Z('01)     | 6,362,352  | 782  |
| 28  | ZS4TX('01)    | 4,602,028  | 722  |
| AB  | EF8M('10)     | 18,395,154 | 1026 |

**SOUTH AMERICA**

|     |            |            |     |
|-----|------------|------------|-----|
| 1.8 | YV1OB('86) | 11,550     | 35  |
| 3.5 | YX3A('89)  | 1,004,060  | 305 |
| 7.0 | LU1IV('97) | 7,671,456  | 702 |
| 14  | HK1X('10)  | 4,667,505  | 815 |
| 21  | ZX5J('05)  | 7,061,000  | 920 |
| 28  | ZX5J('02)  | 6,787,440  | 857 |
| AB  | P4A('10)   | 14,688,993 | 957 |

**ASIA**

|     |               |            |      |
|-----|---------------|------------|------|
| 1.8 | 4X4NJ('96)    | 259,420    | 170  |
| 3.5 | TA0/Z33F('02) | 1,452,552  | 348  |
| 7.0 | ZC4LI('10)    | 4,770,336  | 632  |
| 14  | UP2L('09)     | 7,928,886  | 1043 |
| 21  | A45XR('99)    | 6,557,697  | 843  |
| 28  | HZ1AB('02)    | 3,669,994  | 659  |
| AB  | 4L0A('09)     | 12,560,363 | 967  |

**MULTI-OPERATOR SINGLE TRANSMITTER**

|    |           |            |      |
|----|-----------|------------|------|
| AF | CT9M('08) | 24,125,802 | 1182 |
| AS | P33W('08) | 21,314,175 | 1145 |
| EU | RU1A('09) | 13,838,256 | 1236 |
| NA | 8P4A('02) | 18,516,960 | 1056 |
| OC | AH2R('01) | 11,541,420 | 957  |
| SA | P49V('01) | 19,760,744 | 1034 |

**EUROPE**

|     |             |            |      |
|-----|-------------|------------|------|
| 1.8 | SN7Q('08)   | 339,542    | 307  |
| 3.5 | TM5Y('08)   | 1,983,366  | 567  |
| 7.0 | CT1JLZ('09) | 6,075,936  | 816  |
| 14  | 4O3T('06)   | 5,313,554  | 986  |
| 21  | 9H0A('02)   | 5,389,008  | 933  |
| 28  | 9H0A('01)   | 3,965,315  | 841  |
| AB  | CU2X('09)   | 10,208,016 | 1066 |

**MULTI-OPERATOR TWO TRANSMITTER**

|    |            |            |      |
|----|------------|------------|------|
| AF | EF8M('07)  | 33,324,192 | 1256 |
| AS | C4I('09)   | 14,632,800 | 1005 |
| EU | ES9C('08)  | 18,557,028 | 1266 |
| NA | 6Y1V('08)  | 20,507,972 | 1108 |
| OC | ZL6QH('05) | 13,312,768 | 952  |
| SA | HC8N('03)  | 30,928,268 | 1187 |

**NORTH AMERICA**

|     |            |            |      |
|-----|------------|------------|------|
| 1.8 | VA1A('99)  | 103,680    | 120  |
| 3.5 | FM5BH('97) | 833,490    | 315  |
| 7.0 | V26BA('97) | 6,227,550  | 659  |
| 14  | N2NC('06)  | 5,418,630  | 915  |
| 21  | ZF1A('99)  | 5,330,129  | 799  |
| 28  | FM5GU('01) | 2,849,769  | 621  |
| AB  | VY2TT('09) | 12,878,826 | 1054 |

**MULTI-OPERATOR MULTI-TRANSMITTER**

|    |            |            |      |
|----|------------|------------|------|
| AF | CQ3L('10)  | 28,736,154 | 1173 |
| AS | A61AJ('02) | 42,766,232 | 1244 |
| EU | DR1A('08)  | 24,285,248 | 1313 |
| NA | 6Y2A('02)  | 38,821,328 | 1274 |
| OC | ZL6QH('04) | 16,143,840 | 1010 |
| SA | HC8N('99)  | 54,697,072 | 1264 |

**OCEANIA**

|     |            |           |     |
|-----|------------|-----------|-----|
| 1.8 | KH6ND('07) | 22,100    | 50  |
| 3.5 | KH6ND('09) | 596,673   | 231 |
| 7.0 | ZM3A('09)  | 6,437,695 | 737 |
| 14  | KH6ND('03) | 4,126,690 | 730 |
| 21  | KH6ND('99) | 6,107,256 | 813 |
| 28  | KH6ND('00) | 1,523,008 | 424 |
| AB  | KH7XS('09) | 9,124,899 | 879 |

**QRPp**

|    |            |           |     |
|----|------------|-----------|-----|
| AF | 5Y4FO('92) | 649,057   | 311 |
| AS | ZC4BS('02) | 2,515,388 | 521 |
| EU | LY5A('01)  | 2,331,414 | 646 |
| NA | TI5X('01)  | 2,568,470 | 615 |
| OC | FO8JP('86) | 572,131   | 259 |
| SA | P40W('97)  | 4,018,208 | 632 |

Number groups after call letters denote following: Band (A = all), Final Score, Number of QSOs, and Prefixes. An asterisk (\*) before a call indicates low power. Certificate winners are listed in bold-face. (Note that the country names and groupings reflect the DXCC list at the time of the contest.)

## 2010 WPX CW RESULTS SINGLE OPERATOR NORTH AMERICA

| United States |            | 2342             | 821             |
|---------------|------------|------------------|-----------------|
| AJ1I          | A          | 5,517,941        | (OP: K8PO)      |
| W1CM          | *          | 5,361,419        | 2134 797        |
| WSMPC/1       | *          | 750,060          | 771 405         |
| K1AR          | *          | 666,490          | 636 365         |
| NW1E          | *          | 644,170          | 687 370         |
| (OP: K3IU)    |            |                  |                 |
| NM1JY         | *          | 403,848          | 599 316         |
| K5ZD/1        | *          | 377,405          | 355 263         |
| AE1T          | *          | 338,955          | 463 295         |
| K02M/1        | *          | 279,792          | 412 268         |
| KD2HE/1       | *          | 161,916          | 366 205         |
| W1UJ          | *          | 146,010          | 249 186         |
| W1BYH         | *          | 109,760          | 202 160         |
| W1FM          | *          | 7,626            | 65 62           |
| <b>N1N1</b>   | <b>14</b>  | <b>2,216,760</b> | <b>1438 735</b> |
| <b>K1NEF</b>  | <b>7</b>   | <b>81,000</b>    | <b>146 125</b>  |
| <b>*NV1N</b>  | <b>A</b>   | <b>2,062,368</b> | <b>1476 594</b> |
| (OP: N1UR)    |            |                  |                 |
| *KW2G/1       | *          | 795,476          | 772 404         |
| (OP: W1WB8)   |            |                  |                 |
| *W1CCE        | *          | 504,234          | 623 327         |
| *KS1J         | *          | 327,456          | 478 288         |
| *N1JT         | *          | 225,272          | 301 232         |
| *N1QY         | *          | 156,325          | 277 185         |
| *W1TO         | *          | 98,325           | 222 171         |
| *N1WU         | *          | 94,250           | 171 145         |
| *K1PJ         | *          | 89,194           | 239 161         |
| *A1A1R        | *          | 83,070           | 238 195         |
| *W1Y07ARY     | *          | 75,992           | 269 161         |
| *K1SND        | *          | 53,156           | 170 137         |
| *K1OO         | *          | 38,236           | 151 121         |
| *KX1E         | *          | 32,107           | 118 97          |
| *N1NN         | *          | 27,417           | 124 111         |
| *N1GN         | *          | 26,976           | 122 96          |
| *AB1HL        | *          | 15,318           | 80 63           |
| *WB1FJH       | *          | 13,651           | 88 73           |
| *W1AESO       | *          | 5,830            | 58 55           |
| *W1MAW        | *          | 5,472            | 39 38           |
| *W1OHM        | *          | 4,928            | 69 56           |
| *N1YX         | *          | 3,969            | 57 49           |
| *K1ARI        | *          | 2,556            | 39 36           |
| (OP: W1XX)    |            |                  |                 |
| *W1/CT1AGF    | 14         | 24               | 4               |
| <b>*AB1J</b>  | <b>3.5</b> | <b>48,000</b>    | <b>162 125</b>  |
| *WW1M         | *          | 3,395            | 41 35           |
| (OP: W2A0G)   |            |                  |                 |
| <b>NT2A</b>   | <b>A</b>   | <b>892,143</b>   | <b>879 441</b>  |
| NX2X          | *          | 738,815          | 786 385         |
| WN2O          | *          | 618,372          | 635 356         |
| (OP: N2SC)    |            |                  |                 |
| K2FU          | *          | 616,834          | 662 353         |
| KM2O          | *          | 375,154          | 501 307         |
| (OP: K2XA)    |            |                  |                 |
| W2FUI         | *          | 82,348           | 230 173         |
| K2YR          | *          | 52,374           | 176 129         |
| N2EIK         | *          | 21,730           | 107 82          |
| <b>W2RR</b>   | <b>28</b>  | <b>3,465</b>     | <b>48 45</b>    |
| (OP: W2A0G)   |            |                  |                 |
| <b>KR2AA</b>  | <b>14</b>  | <b>253,154</b>   | <b>495 311</b>  |
| <b>WA2JQK</b> | <b>7</b>   | <b>7,336</b>     | <b>70 56</b>    |
| <b>*K2UF</b>  | <b>A</b>   | <b>830,070</b>   | <b>775 401</b>  |
| *K1TN/2       | *          | 556,830          | 608 345         |
| *K2DB         | *          | 140,015          | 284 205         |
| *KR2Q         | *          | 121,264          | 228 176         |
| *W2MCR        | *          | 98,645           | 228 181         |
| *N2SO         | *          | 70,684           | 243 163         |
| *NA2M         | *          | 42,340           | 141 116         |
| *N2NC         | *          | 38,868           | 157 123         |
| *KR2D         | *          | 30,282           | 134 98          |
| *AE2T         | *          | 27,368           | 116 88          |
| *NV2G         | *          | 18,832           | 107 88          |
| (OP: N2ZN)    |            |                  |                 |
| *KA2FHN       | *          | 14,596           | 113 82          |
| *AG2T         | *          | 5,304            | 59 51           |
| *KV2X         | *          | 3,198            | 47 39           |
| <b>*W2AW</b>  | <b>14</b>  | <b>128,594</b>   | <b>294 226</b>  |
| (OP: N2GM)    |            |                  |                 |
| *WB2REM       | *          | 35,108           | 187 131         |
| *KD2MX        | *          | 12,876           | 96 87           |
| *WW2P         | *          | 7,245            | 80 63           |
| <b>*W2EG</b>  | <b>7</b>   | <b>841,759</b>   | <b>591 379</b>  |
| (OP: LZ4AX)   |            |                  |                 |
| <b>KC3R</b>   | <b>A</b>   | <b>6,532,302</b> | <b>2674 903</b> |
| AA3B          | *          | 5,532,196        | 2476 802        |
| K3ZO          | *          | 3,964,797        | 1865 733        |
| N1WR/3        | *          | 1,736,640        | 1254 540        |
| K3MD          | *          | 1,389,584        | 1326 532        |
| N3UM          | *          | 1,258,136        | 909 493         |
| WM3T          | *          | 967,200          | 690 400         |
| (OP: N3KS)    |            |                  |                 |
| N3XL          | *          | 148,932          | 281 197         |
| K3RMB         | *          | 103,530          | 274 174         |
| N3INJ         | *          | 54,720           | 123 114         |
| W3VF          | *          | 32,800           | 99 82           |
| KN3A          | *          | 5,202            | 56 51           |
| <b>K3NM</b>   | <b>14</b>  | <b>1,548,063</b> | <b>1221 627</b> |
| <b>AD3J/1</b> | <b>7</b>   | <b>55,414</b>    | <b>108 103</b>  |
| <b>*W3EF</b>  | <b>A</b>   | <b>2,437,827</b> | <b>1347 609</b> |
| *WA1LWS/3     | *          | 492,586          | 692 326         |
| *K3BLX        | *          | 295,872          | 492 268         |
| *W3DON        | *          | 246,515          | 453 235         |
| *AD3PA        | *          | 240,250          | 404 250         |
| (OP: K3MSB)   |            |                  |                 |
| *N3OE         | *          | 221,350          | 328 233         |
| *NA3F         | *          | 121,290          | 257 185         |
| *K3TN         | *          | 85,332           | 212 156         |
| *WC3O         | *          | 82,852           | 247 154         |
| *N3NQ         | *          | 68,850           | 235 150         |
| *WA2VQV/3     | *          | 61,985           | 230 161         |
| *N3NZ         | *          | 43,554           | 193 119         |
| *N3DR         | *          | 43,008           | 166 128         |
| *K3CXT        | *          | 42,336           | 196 138         |
| *K3RWN        | *          | 29,610           | 138 105         |
| *K3QLF        | *          | 21,888           | 143 114         |
| *KE3X         | *          | 11,454           | 98 83           |

|               |           |                  |                 |
|---------------|-----------|------------------|-----------------|
| *WA2EAJ/3     | *         | 5,841            | 68 59           |
| <b>*N3JK</b>  | <b>14</b> | <b>130,255</b>   | <b>425 239</b>  |
| <b>*K3ZM</b>  | <b>7</b>  | <b>209,729</b>   | <b>297 221</b>  |
| *A1G3         | *         | 2,769            | 50 39           |
| (OP: N4PN)    |           |                  |                 |
| <b>NX0X/4</b> | <b>A</b>  | <b>3,086,655</b> | <b>2052 715</b> |
| NN4US         | *         | 2,808,364        | 1978 689        |
| (OP: N5WR)    |           |                  |                 |
| N6AR/4        | *         | 2,795,386        | 1880 671        |
| K4RO          | *         | 1,396,984        | 1396 524        |
| K4M4K         | *         | 1,219,775        | 1501 503        |
| (OP: N4UJ)    |           |                  |                 |
| NN4MM         | *         | 1,022,110        | 829 430         |
| (OP: K9MUG)   |           |                  |                 |
| NJ4I          | *         | 959,968          | 1258 458        |
| (OP: K4LTA)   |           |                  |                 |
| N4EEB         | *         | 906,382          | 1172 458        |
| AK4K          | *         | 556,380          | 880 396         |
| (OP: W4LT)    |           |                  |                 |
| N4CW          | *         | 514,941          | 573 339         |
| WA4JUK        | *         | 452,430          | 692 330         |
| WZ4F          | *         | 444,780          | 629 353         |
| (OP: K4AB)    |           |                  |                 |
| N4ZZ          | *         | 404,950          | 747 350         |
| K4LO          | *         | 365,712          | 430 304         |
| N4DW          | *         | 341,931          | 493 293         |
| W7DO/4        | *         | 338,826          | 456 298         |

|               |                  |                 |                |
|---------------|------------------|-----------------|----------------|
| W4SVO         | 21               | 602,490         | 913 453        |
| K4FJ          | *                | 178,432         | 362 272        |
| K4SV          | *                | 68,972          | 264 172        |
| W4NZ          | *                | 27,474          | 145 114        |
| W4NM          | *                | 16,376          | 105 89         |
| <b>AD4EB</b>  | <b>14</b>        | <b>233,632</b>  | <b>540 298</b> |
| <b>N2Y0/4</b> | <b>7</b>         | <b>298,584</b>  | <b>389 264</b> |
| K4XD          | *                | 10,335          | 97 65          |
| (OP: N59B/4)  |                  |                 |                |
| <b>A</b>      | <b>1,897,920</b> | <b>1553 576</b> |                |
| (OP: N4K)     |                  |                 |                |
| *WJ9B/4       | *                | 1,247,076       | 1197 486       |
| *WN2G/4       | *                | 1,244,880       | 1259 494       |
| *N4PSE        | *                | 724,992         | 815 384        |
| *W2TX/4       | *                | 694,688         | 775 366        |
| *N4IG         | *                | 580,488         | 648 361        |
| *W4YE         | *                | 521,640         | 606 345        |
| *KN4QD        | *                | 411,179         | 606 323        |
| *WF7T/4       | *                | 371,762         | 711 302        |
| *NM2L/4       | *                | 203,112         | 496 248        |
| *AE4Y         | *                | 173,817         | 481 217        |
| *W6UB/4       | *                | 169,992         | 377 216        |
| *K1GU/4       | *                | 145,452         | 289 186        |
| *N4WO         | *                | 123,435         | 330 195        |
| *KE4KY        | *                | 116,484         | 346 204        |
| *W4RYW        | *                | 113,231         | 231 199        |
| *WC4E         | *                | 86,227          | 217 163        |
| *WC4CC        | *                | 81,375          | 196 155        |
| (OP: K4CC)    |                  |                 |                |
| *N3TG/4       | *                | 76,812          | 209 148        |

|             |          |                  |                 |
|-------------|----------|------------------|-----------------|
| *WB4TDH     | 21       | 124,509          | 345 231         |
| *K4ABC      | *        | 4,704            | 48 48           |
| *WA2ASQ/4   | 14       | 33,777           | 182 139         |
| *K4FX       | *        | 25,740           | 137 117         |
| *N4MM       | *        | 3,528            | 38 36           |
| *N3GD/4     | 7        | 171,072          | 250 198         |
| *K4WI       | 1.8      | 351              | 13 13           |
| (OP: K4WI)  |          |                  |                 |
| <b>K5WA</b> | <b>A</b> | <b>2,296,944</b> | <b>1934 624</b> |
| WC5T        | *        | 2,247,315        | 2066 595        |
| (OP: K5PI)  |          |                  |                 |
| K7IA/5      | *        | 574,500          | 933 383         |
| AA5AU       | *        | 320,229          | 535 299         |
| NQ5K        | *        | 313,500          | 860 300         |
| (OP: W5ASP) |          |                  |                 |
| A1SM        | *        | 235,197          | 597 281         |
| WB5AAR      | *        | 209,085          | 510 263         |
| (OP: N5RZ)  |          |                  |                 |
| KM4DR/5     | *        | 181,040          | 630 248         |
| N5VU        | *        | 150,936          | 397 228         |
| NK5Z        | *        | 136,656          | 368 208         |
| KZ5D        | *        | 84,729           | 406 183         |
| NT5C        | *        | 42,316           | 234 142         |
| (OP: N3BB)  |          |                  |                 |
| AD5O        | *        | 31,242           | 182 127         |
| WS1L/5      | *        | 18,527           | 129 97          |
| WDZW/5      | *        | 5,763            | 59 51           |

|              |           |                |                 |
|--------------|-----------|----------------|-----------------|
| *AC5K        | *         | 141,700        | 392 218         |
| *N5KWN       | *         | 85,655         | 331 185         |
| *K53D/5      | *         | 80,580         | 232 170         |
| *K5ME        | *         | 74,880         | 254 156         |
| *KX5A        | *         | 71,495         | 291 181         |
| (OP: K5XA)   |           |                |                 |
| *W5WZ        | *         | 70,882         | 242 166         |
| *W5JBO       | *         | 44,671         | 192 131         |
| *W5ZKO       | *         | 40,592         | 161 118         |
| *KG6EO/5     | *         | 31,820         | 191 120         |
| *N5XE        | *         | 31,552         | 144 116         |
| *KM5PS       | *         | 26,096         | 159 112         |
| *W5OLF       | *         | 13,344         | 129 96          |
| *K3TD/5      | *         | 10,512         | 97 72           |
| *W5AJ        | *         | 5,940          | 84 60           |
| *AE5KM       | *         | 4,429          | 51 43           |
| *AC5TU       | *         | 304            | 16 16           |
| *W5KI        | 28        | 15             | 3 3             |
| *WA1HC/5     | 21        | 5              | 1 1             |
| <b>*W5YZ</b> | <b>14</b> | <b>50,020</b>  | <b>232 164</b>  |
| <b>*N5ER</b> | <b>7</b>  | <b>139,582</b> | <b>267 202</b>  |
| (OP: K6RB)   |           |                |                 |
| <b>KC6X</b>  | <b>A</b>  | <b>870,048</b> | <b>1098 424</b> |
| W6TK         | *         | 761,994        | 996 411         |
| W6SX         | *         | 671,209        | 1093 379        |
| W6AKHK       | *         | 802,478        | 608 338         |
| K6LRN        | *         | 419,228        | 668 337         |
| NW6H         | *         | 418,600        | 663 325         |
| (OP: K6RB)   |           |                |                 |
| KI6VC        | *         | 290,640        | 811 280         |
| KR7O/6       | *         | 219,883        | 335 173         |
| (OP: N6TV)   |           |                |                 |
| KE1B/6       | *         | 176,852        | 495 247         |
| W6OMV        | *         | 172,928        | 465 224         |
| N6NF         | *         | 166,665        | 401 205         |
| K6IT         | *         | 139,742        | 373 214         |
| NSKO/6       | *         | 122,298        | 347 187         |
| NY6I         | *         | 105,105        | 339 195         |
| (OP: K6DGW)  |           |                |                 |
| AJ6V         | *         | 82,460         | 336 190         |
| N6MI         | *         | 70,215         | 226 155         |
| K6TU         | *         | 50,832         | 205 144         |
| N6HC         | *         | 47,275         | 240 155         |
| W4NJJK/6     | *         | 44,118         | 212 129         |
| WB6JJJ       | *         | 20,412         | 113 84          |
| N6RI         | *         | 5,343          | 48 39           |
| W6SJ         | *         | 3,237          | 44 39           |
| N6AJR        | *         | 2,838          | 50 43           |
| <b>W6VNR</b> | <b>28</b> | <b>272</b>     | <b>18 17</b>    |
| <b>N6GS</b>  | <b>14</b> | <b>288,414</b> | <b>488 327</b>  |
| (OP: W4UAT)  |           |                |                 |
| <b>WT6K</b>  | <b>7</b>  | <b>11,850</b>  | <b>95 79</b>    |
| <b>*WN6K</b> | <b>A</b>  | <b>451,332</b> | <b>794 324</b>  |
| *N6AA        | *         | 257,740        | 529 263         |
| *N6MU        | *         | 138,444        | 278 278         |
| *N6NG        | *         | 135,864        | 381 222         |
| *N6CI        | *         | 124,821        | 392 201         |
| *K6GEP       | *         | 124,752        | 354 184         |
| *W6IYS       | *         | 97,018         | 310 179         |
| *KK6XN       | *         | 91,482         | 307 158         |
| (OP: W6KY)   |           |                |                 |
| *KX8X/6      | *         | 89,784         | 365 174         |
| *AA6EE       | *         | 61,104         | 233 152         |
| *AF6EV       | *         | 59,840         | 217 136         |
| *N6MUF       | *         | 49,368         | 227 136         |
| *K6CSL       | *         | 48,374         | 210 134         |
| *N6P         | *         | 39,606         | 191 123         |
| *W6RFF       | *         | 38,564         | 166 124         |
| *K6MEE       | *         | 28,980         | 176 115         |
| *KN6Y        | *         | 25,334         | 151 106         |
| *W6W6D       | *         | 16,632         | 106 88          |
| *N6CJR       | *         | 15,600         | 120 80          |
| *KA3DR/6     | *         | 15,549         | 116 73          |
| *W6FJ        | *         | 12,894         | 106 73          |
| *K7SDW/6     | *         | 12,012         | 101 78          |





|                    |     |           |      |     |         |    |           |      |     |         |     |           |     |     |        |     |           |      |     |         |    |         |     |     |
|--------------------|-----|-----------|------|-----|---------|----|-----------|------|-----|---------|-----|-----------|-----|-----|--------|-----|-----------|------|-----|---------|----|---------|-----|-----|
| UN5J               | *   | 22,950    | 101  | 85  | O05A    | *  | 145,824   | 355  | 248 | *OK1DST | *   | 4,047     | 64  | 57  | RL3AF  | *   | 262,328   | 385  | 271 | *RW6MBC | *  | 290,280 | 497 | 295 |
| UP1G               | 28  | 377,856   | 492  | 288 | O08A    | 14 | 35,905    | 205  | 180 | *OK1KZ  | *   | 5,840     | 61  | 48  | RL3AM  | 3.5 | 23,377    | 126  | 87  | *RW6AH  | *  | 229,558 | 470 | 266 |
| UP6P               | *   | 248,248   | 416  | 240 | O03R    | 7  | 1,100,834 | 880  | 478 | *OL2N   | 21  | 470,984   | 761 | 452 | RL3IM  | A   | 1,695,589 | 1526 | 579 | *RA6FOL | *  | 191,142 | 493 | 287 |
| UN3GX              | *   | 134,505   | 291  | 183 | ON4LG   | *  | 29,973    | 115  | 103 | *OK2HZ  | *   | 90,831    | 277 | 221 | *RN3OP | *   | 1,290,786 | 1575 | 511 | *UA6HO  | *  | 162,911 | 397 | 259 |
| UN96D              | 21  | 1,834,348 | 1229 | 604 | *ON3ND  | A  | 709,512   | 1021 | 444 | *OK1GS  | 14  | 186,694   | 440 | 323 | *RV3QZ | *   | 1,035,684 | 1194 | 468 | *UA6HFI | *  | 146,500 | 395 | 250 |
| UP2L               | 24  | 4,707,755 | 2089 | 871 | *OR6C   | *  | 266,430   | 504  | 321 | *OK1FGD | *   | 73,790    | 316 | 235 | *RV3QZ | *   | 899,080   | 1182 | 455 | *RU6BR  | *  | 106,133 | 302 | 211 |
| UN2E               | *   | 724,581   | 663  | 429 | *ONAVMA | *  | 207,857   | 475  | 271 | *OK1MMN | *   | 28,755    | 151 | 135 | *RV3QZ | *   | 878,526   | 1175 | 459 | *RA6FPV | *  | 87,688  | 307 | 194 |
| UN0L               | *   | 6,953     | 50   | 44  | *ONSWA  | *  | 200,736   | 456  | 272 | *OK2PHI | *   | 621       | 23  | 23  | *RV3QZ | *   | 776,919   | 992  | 429 | *RA6HRX | *  | 75,849  | 279 | 193 |
| *UN7GD             | A   | 326,783   | 390  | 229 | *OTXK   | *  | 80,056    | 257  | 192 | *OL4W   | 7   | 1,054,616 | 891 | 422 | *RV3QZ | *   | 691,842   | 1035 | 402 | *RV6AAQ | *  | 73,340  | 210 | 130 |
| *UN7CA             | *   | 165,354   | 267  | 186 | *ON6SI  | *  | 33,844    | 148  | 120 | *OK1SI  | *   | 208,684   | 322 | 257 | *RV3QZ | *   | 665,525   | 958  | 425 | *RV6AAQ | *  | 48,732  | 167 | 131 |
| *UP2F              | *   | 65,780    | 185  | 115 | *ON6SI  | *  | 2,173     | 48   | 41  | *OK2IEY | *   | 98,420    | 227 | 185 | *RV3QZ | *   | 543,398   | 919  | 427 | *RV6AAQ | *  | 19,019  | 123 | 104 |
| *UN8UG             | 28  | 243,219   | 393  | 251 | *ON6SI  | 21 | 48,321    | 118  | 177 | *OK2IEY | *   | 18,423    | 94  | 89  | *RV3QZ | *   | 456,453   | 714  | 369 | *RV6AB  | *  | 1,674   | 33  | 27  |
| *UN7CH             | 21  | 100,748   | 221  | 178 | *ON6SI  | 14 | 300,272   | 562  | 392 | *OK2IEY | 3.5 | 189,003   | 377 | 251 | *RV3QZ | *   | 379,496   | 501  | 356 | *RU6YJ  | 28 | 21,780  | 494 | 121 |
| *UN7C              | 14  | 400,575   | 425  | 132 | *ON6SI  | 7  | 21,528    | 113  | 92  | *OK2IEY | 1.8 | 110,544   | 295 | 166 | *RV3QZ | *   | 290,250   | 576  | 270 | *UA6NZ  | *  | 19,260  | 119 | 107 |
| *UN7JC             | *   | 49,920    | 145  | 128 | *ON6SI  | *  | 36,120    | 148  | 120 | *OK2BME | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 282,338   | 556  | 301 | *RV6BK  | *  | 2,030   | 38  | 35  |
| *UN8GA             | 7   | 115,197   | 176  | 128 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | 3.5 | 189,003   | 377 | 251 | *RV3QZ | *   | 244,237   | 467  | 287 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *UN5C              | 3.5 | 38,070    | 92   | 81  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | 1.8 | 110,544   | 295 | 166 | *RV3QZ | *   | 214,398   | 419  | 277 | *RV6LX  | 14 | 291,750 | 636 | 272 |
| 9K2HN              | 28  | 9,880     | 69   | 52  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 195,360   | 413  | 240 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| EX2A               | A   | 1,277,556 | 997  | 402 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 186,250   | 423  | 250 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| EX8AB              | A   | 890,060   | 872  | 382 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 172,250   | 401  | 250 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *E20YL/M/4         | 21  | 18,957    | 101  | 89  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 166,750   | 404  | 230 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *721HB             | A   | 661,304   | 606  | 343 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 149,680   | 408  | 243 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *721HL             | A   | 317,292   | 390  | 274 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 147,420   | 297  | 252 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *721PS             | A   | 114,390   | 227  | 186 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 145,770   | 428  | 215 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *721SJ             | 28  | 93,240    | 205  | 166 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 139,289   | 699  | 331 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| 9V1YC              | A   | 172,886   | 324  | 233 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 134,874   | 424  | 254 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| DS5DNO             | A   | 203,712   | 539  | 192 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 108,852   | 271  | 188 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| HL5UOG             | A   | 53,560    | 245  | 130 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 108,120   | 324  | 204 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *DT0IT             | A   | 86,790    | 447  | 165 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 106,600   | 298  | 205 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *HL5YD             | A   | 47,970    | 186  | 123 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 102,592   | 362  | 229 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *DL5R1             | A   | 9,891     | 94   | 63  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 101,430   | 346  | 210 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *HL5JCB            | A   | 8,436     | 72   | 57  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 86,775    | 314  | 195 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| HW/DL30CH          | A   | 367,536   | 727  | 304 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 79,407    | 254  | 173 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *BV4VR             | A   | 10,812    | 81   | 68  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 59,040    | 222  | 164 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *BW4J/S2PHO        | A   | 5,775     | 93   | 55  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 48,910    | 198  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *EY7BD             | A   | 9,204     | 62   | 52  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 47,436    | 171  | 134 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *EY7BJ             | A   | 9,126     | 61   | 54  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 46,935    | 229  | 149 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| E21E1C             | A   | 1,667,250 | 1215 | 494 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| HS0AC              | A   | 345,728   | 587  | 296 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *HS0ZE             | A   | 181,818   | 331  | 222 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *HSJXY             | 14  | 4,554     | 60   | 46  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| TC4X               | A   | 8,665,635 | 2965 | 829 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *TA3D              | 14  | 20,554    | 91   | 86  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *TA4/G4MEM         | A   | 1,716     | 26   | 26  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| UK Bases on Cyprus |     |           |      |     | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| ZC4LI              | 7   | 4,770,336 | 1356 | 632 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| A61BK              | A   | 1,680     | 30   | 28  | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| A65BD              | 14  | 51,062    | 146  | 121 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| XV1X               | A   | 291,536   | 526  | 266 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *9M2TO             | A   | 281,843   | 528  | 281 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| EUROPE             |     |           |      |     | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| OG0I               | A   | 3,514,563 | 2698 | 741 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| OE8SKO             | A   | 638,287   | 997  | 481 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| OE2VEL             | 28  | 56,055    | 244  | 185 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *OE1TKW            | A   | 88,953    | 258  | 199 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| *OE/DL7VMM         | A   | 34,348    | 161  | 124 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| EW8DX              | A   | 2,059,180 | 1858 | 596 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| EW8KY              | *   | 999,792   | 1141 | 477 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ | *   | 45,408    | 189  | 146 | *RV6LX  | 21 | 129,200 | 636 | 272 |
| EW3LN              | *   | 905,814   | 1039 | 474 | *ON6SI  | *  | 193,617   | 530  | 303 | *OK1DST | *   | 53,582    | 198 | 146 | *RV3QZ |     |           |      |     |         |    |         |     |     |



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|                |            |      |      |   |            |      |      |
|----------------|------------|------|------|---|------------|------|------|
| Sweden         |            |      |      | G50   | 5,657,057  | 3454 | 857  |
| SI9AM          | 928,972    | 1221 | 491  | RM5A  | 4,588,287  | 3024 | 853  |
| SK6HD          | 143,736    | 383  | 226  | OLGA  | 4,555,182  | 2671 | 940  |
| Switzerland    |            |      |      | LY6A  | 3,918,102  | 2974 | 758  |
| HB9LL          | 438,918    | 811  | 383  | OZ5E  | 3,178,129  | 2483 | 811  |
| Ukraine        |            |      |      | 4U10NPT   | 1,921,920  | 1869 | 624  |
| EM7L           | 5,597,250  | 3302 | 850  | RK4WQQ  | 1,804,062  | 1905 | 606  |
| UJWL           | 1,382,321  | 1457 | 527  | PI4DX   | 820,040    | 1020 | 494  |
| UJ4JWC         | 54,464     | 2427 | 148  | HB9CA   | 375,928    | 625  | 392  |
| UJ4JWA         | 32,844     | 172  | 138  | OCEANIA   |            |      |      |
| OCEANIA        |            |      |      | KH6LC   | 8,826,291  | 3224 | 701  |
| Guam           |            |      |      | ZM1A  | 8,289,021  | 2510 | 771  |
| AH2Y           | 3,001,264  | 1531 | 508  | XD1DBT  | 27,064     | 128  | 68   |
| Indonesia      |            |      |      | SOUTH AMERICA   |            |      |      |
| YE1C           | 3,179,096  | 1585 | 568  | PW7T  | 20,892,576 | 4982 | 1186 |
| YC1ZAC         | 16,320     | 91   | 64   | PJ2T  | 18,044,546 | 4507 | 1046 |
| YE1ZAL         | 2,470      | 27   | 26   | PX2C  | 6,287,544  | 2174 | 837  |
| New Zealand    |            |      |      | MULTI-OPERATOR  |            |      |      |
| ZL2AGY         | 650,180    | 517  | 290  | MULTI-TRANSITTER  |            |      |      |
| SOUTH AMERICA  |            |      |      | NORTH AMERICA   |            |      |      |
| Argentina      |            |      |      | KM37/1  | 14,733,230 | 4891 | 1117 |
| LS1D           | 8,950,139  | 2583 | 913  | NQ4I  | 10,921,286 | 4828 | 1046 |
| LJ3DKV         | 1,684,254  | 1108 | 507  | NR4M  | 10,876,056 | 4312 | 1037 |
| Brazil         |            |      |      | NR60  | 5,612,130  | 3474 | 762  |
| PP5JN          | 137,632    | 267  | 184  | VE7SV   | 4,803,284  | 2258 | 652  |
| PR5A           | 1,088      | 34   | 34   | VE7F  | 4,647,780  | 2540 | 604  |
| Chile          |            |      |      | N1ET  | 1,885,520  | 1028 | 518  |
| CD1R           | 1,893,296  | 1116 | 482  | WE6Z  | 554,946    | 1004 | 362  |
| MULTI-OPERATOR |            |      |      | AK1W  | 510,071    | 553  | 331  |
| TWO-TRANSITTER |            |      |      | W8BI  | 258,509    | 455  | 269  |
| NORTH AMERICA  |            |      |      | KM1W  | 82,967     | 217  | 163  |
| K1LZ           | 14,081,100 | 4306 | 1122 | AFRICA  |            |      |      |
| KD40/3         | 11,223,000 | 3926 | 1044 | CQ3L  | 28,736,154 | 6548 | 1173 |
| NY6N           | 6,573,159  | 3725 | 789  | ASIA  |            |      |      |
| ND2B           | 5,128,932  | 2429 | 831  | RA9A  | 5,400,200  | 2029 | 650  |
| WG3B           | 5,079,270  | 3207 | 722  | EUROPE  |            |      |      |
| WG6B           | 4,567,015  | 3070 | 701  | LZ9W  | 19,955,741 | 8013 | 1231 |
| W1CU/7         | 4,161,375  | 2851 | 675  | DR1A  | 19,565,450 | 7351 | 1255 |
| AK6M           | 3,320,460  | 2582 | 645  | RW2F  | 16,588,788 | 7108 | 1174 |
| WQ2N           | 1,952,552  | 1499 | 586  | DR1A  | 9,729,286  | 5663 | 974  |
| NG5X           | 1,611,120  | 1624 | 548  | OP4K  | 3,420,075  | 2464 | 774  |
| K1ZT           | 1,246,476  | 1493 | 497  | UR3QXX  | 803,692    | 1077 | 446  |
| VE9ML          | 1,186,990  | 845  | 434  | SOUTH AMERICA   |            |      |      |
| WF6C           | 815,104    | 911  | 398  | ZW5B  | 25,207,253 | 5502 | 1223 |
| NQ8K           | 17,127     | 167  | 99   | CE4CT   | 9,521,298  | 2836 | 921  |
| AFRICA         |            |      |      | CHECK LOGS  |            |      |      |
| EA8URL         | 9,200,604  | 3031 | 867  | 2E1OKT, 4Z5MU, 7SSC, AB1FY, BD4CW, DF9KF, DG9VH, DJ6BQ, DK3RED, DL2BIS, DL2OPE, DL4SVA, DL4ZM, DL5JRA, DL6UAM, DL7FQO, DL7USW, DL8MSE, DL9LZE, DM0SDX, DM10MNG, E73W, E74WN, EA3HCJ, EW2AO, F5DM, G3RWL, G4HZV, H7A, HA1SN, HA1Z, HA7LJ, I0KHP, I3VJW, IW1OI, J45KLN, JF6MGC, JQ4DBH, JT1DA, JS0AI, KB9AMG, KC7UP, LA1WE, LA8HGA, LY2CO, MW0JSD, NG6WIN, NI6WE, OK2BHD, OK2SG, OK2ZW, OK7DX, OM3SX, OP1A, OP4A, PC5D, PY4AO, R4SXDX, R7CZM, RA7DE, RA2QZ, RA3JM, RA4M, R43AA, RK1AO, RK1AX, RN3QZ, RU3EJ, RU9AZ/9, RZ9UMA, RZ9UO, RZ9UWZ, SN7O, SO5S, SP2QOT, SP3CGK, SP3QYQ, SP5ADZ, SP5BNB, SP6T, SP7CVW, SQ2GXO, SQ3AOA, UA9UR, UA9NAL, UA9GE, UA6L PY, UA9JLL, UA9RLB, URG7M, USSVX, UT2XK, UT3NF, UT4WA, UT8NT, UO4SF, UY1LJ, UY2UJA, VE1F1W, VE1W, VE1YU, VE2CP, W67L, YL2OS, YL2TD, YQ3JL, YQ4AF, YQ4YF, YQ6YL, YQ9JIM, YP2UJ, YP2W, YU8NU, Z37Z, Z37Z, ZM2B |            |      |      |
| C4I            | 23,431,776 | 5769 | 1056 | Rule Violations:  |            |      |      |
| B1Z            | 2,692,920  | 2018 | 953  | Yellow Cards: EA5FV, HA1Q, HG10P (HA3MY), I1ZC (UT2ZDI), RT5W (OP R3XWR), RK4HZ, R47LE, UA3KA, UA4NW, UA4M, UR51FB, YL2PA—unclaimed assistance  |            |      |      |
| 7J1YA7         | 1,895,784  | 1418 | 516  | Withdrawn logs: HG6A (OP HA8LLK)  |            |      |      |
| ROULL          | 1,447,519  | 1318 | 433  |   |            |      |      |
| BX0WPX         | 1,263,881  | 1422 | 439  |   |            |      |      |
| RN9CJW         | 718,478    | 544  | 298  |   |            |      |      |
| JA1ZGP         | 614,728    | 836  | 34   |   |            |      |      |
| 8J7SKS         | 189,696    | 481  | 192  |   |            |      |      |
| EUROPE         |            |      |      |   |            |      |      |
| OM7M           | 12,611,960 | 5242 | 1091 |   |            |      |      |
| LX7I           | 11,283,975 | 4817 | 1095 |   |            |      |      |
| DQ4W           | 10,803,466 | 4984 | 1037 |   |            |      |      |
| DM9K           | 10,527,160 | 4698 | 1048 |   |            |      |      |
| HG1S           | 10,033,401 | 4364 | 1047 |   |            |      |      |
| YT9X           | 9,725,820  | 4953 | 1011 |   |            |      |      |
| S50G           | 9,471,780  | 4398 | 1010 |   |            |      |      |
| DL0CS          | 8,765,312  | 4286 | 992  |   |            |      |      |
| S52ZW          | 8,253,645  | 4000 | 965  |   |            |      |      |
| DR4A           | 8,093,495  | 4284 | 973  |   |            |      |      |
| LZ5R           | 9,274,512  | 4997 | 1002 |   |            |      |      |
| LY2W           | 7,837,884  | 4219 | 118  |   |            |      |      |
| KG1S           | 8,811,750  | 3861 | 875  |   |            |      |      |
| G5D            | 5,780,268  | 3378 | 897  |   |            |      |      |
| YL8Y           | 5,757,912  | 3559 | 874  |   |            |      |      |