

# Results of the 2013 CQ WW DX CW Contest

BY RANDY THOMPSON,\* K5ZD

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*"What a wonderful time I spent in front of my radio this weekend."  
—PP1CZ*

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Think back to another November evening 90 years ago. Radio amateurs were experimenting with the supposedly "useless" wavelengths below 200 meters. Leon Deloy, French 8AB, announced his intention to transmit on 100 meters from 9:00 to 10:00 p.m. Eastern US Time, beginning on 25 November, 1923. ARRL Traffic Manager Fred Schnell at 1MO heard the transmission and requested permission to reply. The next night, the first ever two-way communication by radio amateurs between Europe and America was accomplished!<sup>1</sup>

Testifying before the US Senate seven years later, Hiram Maxim (1AW) described the event to convey the excitement of each new achievement in amateur radio:<sup>2</sup>

*It is difficult to explain the thrill that accompanies an experience such as this. It is sublime and carries with it a sort of uplift that makes us better and deeper-thinking men. The precision of it all, the picture of the Frenchman sitting in his little den in France, waiting for the precise second to come around, hand on key, the Americans sitting in their little shack in a little street in New England, silently listening and watching the time, the miles and miles of lonely black ocean over which the little electro-magnetic oscillations must travel, are utterly compelling to us amateurs.*

How would those earliest DXers take in the CQ WW DX Contest CW of 2013? Could they imagine thousands of participants from around the world exchanging callsigns and signal reports in a frantic scavenger hunt for DX across six bands from 160 meters up to 10 meters?! While they may not have envisioned the future as it unfolded, they certainly shared the magic of wireless and the thrill of DX that still exists for us today.

The so-called double peak of solar Cycle 24 provided plenty of excitement for the more than 35,000 participants that were found in the logs of CQ WW CW 2013. A record number of 7,442 log entries were received—listing contacts with 203 different DXCC entities. The rarest contacts were with Sri Lanka (4S), Congo (9Q), Surinam (PZ), Kenya (5Z), and the Falkland Islands (VP8). Over 1.1-million contacts were reported with the United States, followed by European Russia (373K), Germany (348K), and Japan (282K).

All 40 CQ zones were active. The most zones worked on each band were 25 on 160 meters, 38 on 80 meters, 39 on 40 meters, and all 40 on 20, 15, and 10 meters. While a big country total is pleasing, zones have a special place in proving that you were able to reach all parts of the world during the 48 hours of the contest. Zone 37 seed to be the most difficult one for all bands except 15 meters.

It is the QRP entrants, those who choose

to play the game with 5 watts or less, that really tell the story of just how good conditions were. With 10 and 15 meters open around the world, it doesn't take much more than patience to experience the thrill that 8AB and 1MO enjoyed so many years ago. From K6UFO operating at NN7SS, "How many countries can I work on just 15m while QRP?" Answer: "114." N4LA was happy: "I actually tried to see how many countries I could work with QRP power... I ended up with 111 worked in just over 17 hrs." Perennial QRP entrant N1TM reported, "Personal best for this one." Just for fun, the OL4A team decided to do a QRP multi-multi. They ended up with over 7-million points (with over 100 countries on each of 40–10 meters)!

There were plenty of comments about Saturday being better than Sunday. Many reported that the high bands closed a bit earlier on the second day. Making contacts was also complicated by stations having very bad echoes at times, especially for backscatter QSOs within Europe. The echo was almost as loud as the main signal, making it nearly impossible to copy except at very slow CW speeds!

## Single Operator All Band – High Power

There was an incredibly close race for the top world score in the Single Operator All Band category. It was virtually a three-way tie among P40F in Aruba operated by Valery R5GA, TO7A in Martinique operated by Dmitry UT5UGR, and CR3E in Madeira operated by Jose CT1BOH. The top two scores are only 4,000 points apart; that's less than one multiplier!

It is extremely difficult for a North American station to compete for the world high score due to only earning two points for each contact with WVE compared to three points earned by those in other continents. Dmitry's extraordinary score from TO7A was the result of running pileups on two bands at the same time throughout the



Sunrise at multi-single entry K8AZ. CW from lower left: W3YQ (foreground) working mults on 40, K8NZ running on 20, W8CAR tuning for mults on 160, and K8BL tuning for mults on 80.

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## 2013 WW DX CW TROPHY WINNERS AND DONORS

<p><b>SINGLE OPERATOR ALL BAND World</b> P40F (Opr.: Valery Petrov, R5GA) Donor: Vibroplex</p> <p><b>World Low Power</b> V26K (Opr.: Bud Trench, AA3B) Donor: Slovenia Contest Club</p> <p><b>World - QRP</b> Dan Street, K1TO4 Donor: Gene Walsh, N2AA</p> <p><b>World - Assisted</b> EF9O (Opr.: Juan Luis Pla Nebot, EA5BM) Donor: Robert McGwier, N4HY</p> <p><b>World - Assisted- Low Power</b> P40W (Opr.: John Crovelli, W2GD) Donor: Lyubomir "Leo" Slavov, OR2F</p> <p><b>World - Assisted - QRP</b> Nick Kornev, RA3AN Donor: Steve "Sid" Caesar, NH7C</p> <p><b>USA</b> Dave Patton, NN1N Donor: Frankford Radio Club</p> <p><b>USA - Low Power</b> Ed Sawyer, N1UR Donor: North Coast Contesters</p> <p><b>USA - QRP</b> David Leduc, N1IX* Donor: W3ZZ Memorial (Andy Blank, N2NT)</p> <p><b>USA - Assisted</b> Chas Fulp, Jr., K3WW Donor: John Rodgers, WE3C</p> <p><b>USA Assisted - Low Power</b> James P. Bowman, KS1J Donor: LA9Z/LN9Z Leia Contest Club</p> <p><b>USA - Zone 3</b> Bob Wolbert, K6XX Donor: Central Arizona DX Association</p> <p><b>USA - Zone 4</b> Dave McCarty, K5GN Donor: The Society of Midwest Contesters</p> <p><b>Europe</b> Ranko Boca, 4O3A Donor: W3AU Memorial (Florida Contest Group)</p> <p><b>Europe - Low Power</b> Jose Haro Lora, EA7OT Donor: Tim Duffy, K3LR</p> <p><b>Europe - QRP</b> Istvan Vajda, HG3M Donor: I4FAF Memorial (Sergio Cartoceti, IK4AUY)</p> <p><b>Europe - Assisted</b> Manfred Wolf, DJ5MW Donor: I4IND Memorial (Claudio Veroli, I4VEQ)</p> <p><b>Europe - Assisted - Low Power</b> Vinko Gregorcic, S53F Donor: Alex Goncharov, R3ZZ</p> <p><b>Africa</b> CR3E (Opr.: Jose Carlos Cardoso Nunes, CT1BOH) Donor: K5KA Memorial (Ralph "Gator" Bowen, N5RZ)</p> <p><b>Asia</b> Anatoly Polevik, RC9O Donor: W5PG Memorial (DFW Contesting Group)</p> <p><b>Carib./C.A.</b> TO7A (Opr.: Dimitry Stashuk, UT5UGR) Donor: W5PG Memorial (DFW Contesting Group)</p> <p><b>Carib./C.A. - Low Power</b> VP5CW (Opr.: Dave Horn, W5CW)* Donor: Albert Crespo, NH7A</p> <p><b>Oceania</b> 9M6NA (Opr.: Saty Nakamura, JE1JKL) Donor: CQ magazine</p> <p><b>South America</b> HD2T (Opr.: Yuri Onipko)* Donor: Dave Farnsworth, WJ2O</p>	<p><b>South America - Southern Cone (CE, CX, LU) - High Power</b> CE3CT (Opr.: Martin Monsalvo, LU5DX) Donor: Dale Long, N3BNA</p> <p><b>South America - Southern Cone (CE, CX, LU) - Low Power</b> LU8XW (Opr.: Oscar Vais, LU1XS) Donor: LU Contest Group</p> <p><b>ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU) - Low Power</b> Renato Schlittler, HS0ZLN Donor: Bob Kupps, N6BK</p> <p><b>Scandinavia (LA, OH, OZ, SM)</b> OH2BH (Opr.: Kim Ostman, OH6KZP) Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)</p> <p><b>Baltic (ES, LY, YL)</b> Albertas Pipiras, LY5R Donor: LY2OO Memorial (Lithuanian Radio Sports Federation)</p> <p><b>Canada</b> VY2TT (Opr.: Kenneth S. Widelitz, K6LA) Donor: John Sluymmer, VE3EJ &amp; Jim Roberts, VE7ZO</p> <p><b>Russia</b> Alexandr Gimmanov, UA5C* Donor: Roman Thomas, RZ3AA</p> <p><b>Japan</b> Masaki Masa Okano, JH4UYB Donor: Phil Yasson, AB7RW</p> <p><b>Japan - Low Power</b> Nobuhiro Iwasa, JH8SL5 Donor: Western Washington DX Club</p> <p><b>SINGLE OPERATOR, SINGLE BAND</b></p> <p><b>World - 28 Mhz</b> ZD8X (Opr.: Jorma Saloranta, OH2KI) Donor: Joel Chalmers, KG6DX</p> <p><b>World - 21 Mhz</b> CN2R (Opr.: Jim Sullivan, W7EJ) Donor: Lew Sayre, W7EW</p> <p><b>World - 14 Mhz</b> 9Y4W (Opr.: Jim Neiger, N6TJ) Donor: W2JT Memorial (North Jersey DX Assn.)</p> <p><b>World - 7 Mhz</b> IG9W (Opr.: Emilio Borea, IZ1GAR) Donor: Alex M. Kasevich, 8R1A</p> <p><b>World - 3.5 Mhz</b> NP4A (Opr.: Alfredo Velez Ramos) Donor: Fred Capossela, K6SSS</p> <p><b>World - 1.8 Mhz</b> Silvo Knuplez, S51V Donor: Kenneth Byers, Jr., K4TEA</p> <p><b>USA - 28 Mhz</b> Vincent Sgroi, K1RM Donor: dxcffee.com</p> <p><b>USA - 21 Mhz</b> Carl Kratzer, K3RV/4 Donor: Bob Naumann, W5OV</p> <p><b>USA - 14 Mhz</b> Jason Goldsberry N5NU Donor: Northern Illinois DX Association</p> <p><b>USA - 7 Mhz</b> Steven Sussman, W3BGN Donor: W6AM Memorial (Jan Perkins, N6AW)</p> <p><b>USA - 3.5 Mhz</b> Robye L. Lahlum, W1MK Donor: Bill Feidt, NG3K</p> <p><b>USA - 1.8 Mhz</b> Thomas M Greenway, K4PI Donor: Jeff Briggs, K1ZM</p> <p><b>Europe - 28 Mhz</b> GM3X (Opr.: Clive Penna, GM3POI) Donor: Jay Pryor, K4OGG</p> <p><b>Europe - 21 Mhz</b> Sigurdur Jakobsson, TF3CW Donor: Robert Naumann, W5OV</p>	<p><b>Europe - 14 Mhz</b> CS2C (Opr.: Jiri Pesta, OK1RF) Donor: G3FXB Memorial (Maud Slater)</p> <p><b>Europe - 7 Mhz</b> YT3A (Opr.: Vojislav Kapun, YU7AV) Donor: Ivo Pezer, 9A3A</p> <p><b>Europe - 3.5 Mhz</b> OL7M (Opr.: Oldrich Linhart, OK1YM) Donor: K3VW Memorial (Frankford Radio Club)</p> <p><b>Europe - 1.8 Mhz</b> Algirdas Uzdonas, LY7M* Donor: Pat Barkey, N9RV &amp; Terry Zivney, N4TZ</p> <p><b>Asia - 21 Mhz</b> Vakhtang Mumladze, 4L8A Donor: Coconut Wireless Contest Club</p> <p><b>Asia - 14 Mhz</b> 4X2M (Opr.: Arthur Avrunin, 4X4DZ) Donor: W5FO Memorial (Ralph "Gator" Bowen, N5RZ)</p> <p><b>Asia - 7 Mhz</b> Serge Gursky, UN0L Donor: Nodir Tursoon-Zadeh, EY8MM</p> <p><b>Carib./C.A. (28 Mhz)</b> Eric M. Guzman, NP3A Donor: David Hodge, N6AN</p> <p><b>Canada (7 Mhz)</b> Chris Allingham, VE3FU Donor: John Sluymmer, VE3EJ</p> <p><b>Japan - 21 Mhz</b> Akito Nagi, JA5DQH Donor: Bob Wilson, N6TV</p> <p><b>Japan - 14 Mhz</b> Syuichi Sato, JA7FTR Donor: Chris Terkla, N1XS</p> <p><b>China (28 Mhz)</b> Guang Yang, BA8AG Donor: LZ Contest Team</p> <p><b>OVERLAY CATEGORIES</b></p> <p><b>World - Classic</b> VY2ZM (Opr.: Jeffrey T. Briggs, K1ZM) Donor: Pete Smith, N4ZR</p> <p><b>U.S.A. - Classic</b> Peter H Briggs, K3ZM/4 Donor: CWops</p> <p><b>World - Rookie</b> Andrei Enoktaev, R4WDX Donor: CWops</p> <p><b>U.S.A. - Rookie</b> Michael Adams, N1EN Donor: CWops</p> <p><b>MULTI-OPERATOR, SINGLE TRANSMITTER</b></p> <p><b>World</b> CN2AA (Oprs.: RN2FA, R3FA, RA3ATX, RA3CO, RK3AD, RL3FT, RV3MA, RW3FO, RX3APM, UA2FB, UA2FF, UA3ASZ) Donor: Boring Amateur Radio Club</p> <p><b>U.S.A.</b> W1WMMU (Oprs.: W5WMMU, N5WR, K5GO, N5DX) Donor: Douglas Zwiebel, KR2Q</p> <p><b>Africa</b> 5C5T (Oprs.: EA5CP, EA5YU, EA9BLJ)* Donor: Harry Booklan, RA3AUU</p> <p><b>Asia</b> P33W (Oprs.: KU1CW RU4HP, RA2FA, UA2FZ, RV1AW, UA4FER, RW4WR, RA3AUU) Donor: Steve Merchant, K6AW</p> <p><b>Carib./C.A.</b> 6Y7W (Oprs.: 6Y5WJ, UA8DX, UA9CDC, UN7LZ, UN9LW, RN4WA) Donor: Kansas City DX Club</p> <p><b>Europe</b> TM6M (Oprs.: F1AKK, F5MUX, F6ARC, F8DBF, F8FKJ) Donor: Bob Cox, K3EST</p> <p><b>Oceania - Pacific Rim</b> AH2R (Oprs.: NH2C, JR7OMD/WI3O, 7N2JZT/NH2KO, JE8KKX/AH2K, JO1RUR/KH0G) Donor: Junichi Tanaka, JH4RHF</p>
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**South America**  
LT1F (Oprs.: LU1AEE, LU1FAM, LU1FKR, LU1FJ,  
LU2FE, LU4FPZ, LU8ADX, LW6DG, OZ1AA)  
Donor: Araucaria DX Group

**Canada**  
VE7GL (Oprs.: VE7GL, VA700, VA7AO, VE7HJJ)  
Donor: Eastern Canadian DX Assn.

**Japan**  
JA1BPA (Oprs.: JA1BPA, JG1VGX, JM1LPN)  
Donor: Madison Jones, W5MJ

**ASEAN (XZ HS XW XU 3W 9V V8 YB DU)**  
9M2SM (Oprs.: 9M2GET, 9M2ZAK, 9M2OUT, 9M2RD, X,  
9M8SYA, 9W2SBD, 9W2SBL)  
Donor: Bob Kupps, N6BK

**MULTI-OPERATOR, TWO-TRANSMITTER**  
World  
CR3L (Oprs.: DF1LON, DJ2YA, DK7YY, DL1CW,  
DL5AXX, DL5LYM, DM2XO)  
Donor: Array Solutions

**U.S.A.**  
K1LZ (Oprs.: K1LZ, K1VR, AE2W, K3JO, LZ2HM,  
LZ3CQ, N8BO, YO9GZU)  
Donor: Tom Horton, K5IID

**Europe**  
LX7I (Oprs.: DL3BPC, PC5A, PA4N, OE2VEL, OE5OHO,  
DL5SE, DL2JRM, HB9CVQ, LX2A)  
Donor: Aki Nagi, JA5DQH

**MULTI-OPERATOR, MULTI-TRANSMITTER**  
World  
D4C (Oprs.: OM7JG, YL3DW, LY2JJ, YL2KL, IK2JUB,  
OM3RM, OM2VL, IK2NCJ, YL1ZF, K1RX, OM3BH,  
HB9CAT, OM3GI)  
Donor: K2GL Memorial (The K2GL Operators)

**U.S.A.**  
K3LR (Oprs.: K3LR, K3UA, G4TSH, N2NC, W2RQ,  
N9RV, N3SD, KL9A, N6MJ, N6TV, N6AN, N3GJ, K9GY)  
Donor: N6RJ Memorial (Bob Ferrero, W6RJ)

**Europe**  
ES9C (Oprs.: ES1OX, ES1WST, ES2DW, ES2MC,  
ES2NA, ES2RR, ES2TI, ES4RD, ES5GP, ES5JR, ES5NC,  
ES5QA, ES5QX, ES5RY, ES5TV, ES7GM, LZ2CWW,  
OH1JT, OH1RX, OH2IW, OH7EA, OH7JR, RT2F,  
YL2GQT, YL2VW, YL3AD, YL3CW)  
Donor: Finnish Amateur Radio League

**Oceania**  
AH0BT (Oprs.: W1NDE/JE1NDE, K2QXI/JJ2QXI,  
KW2X/JG7PSJ)  
Donor: JA9SSY Memorial (Tack Kumagai, JE1CKA &  
Masa Sakurada, JR2GMC)

**CONTEST EXPEDITIONS**  
World Single Operator  
Cornelius Paul, DF4SA/HB0  
Donor: Friends of Phil Goetz, N6ZZ

**World Multi-Operator**  
TC0A (Oprs.: LZ1CNN, LZ1DCW, LZ1NK, LZ2UW,  
LZ3FN, LZ3ND, LZ3YY, LZ5VK, TA2TX, TA3D, NENO)  
Donor: Carl Cook, A16V

**SPECIAL - SINGLE OPERATOR AWARD**  
World SSB/CW Combined  
8P5A (Opr.: Tom Georgens, W2SC)  
29,325,286  
Donor: Hrane Milosevic, YT1AD

**SPECIAL - TRIATHLON AWARD**  
World SSB/CW/RTTY Combined  
Yuri Onipko, VE3DZ  
26,623,135  
Donor: Rudy Bakalov, N2WQ

**CLUB**  
World SSB/CW  
Yankee Clipper Contest Club  
549,113,402  
Donor: W1WY Memorial (CQ magazine)

**Non-USA SSB/CW**  
Bavarian Contest Club  
446,438,376  
Donor: N6AUV Memorial (Northern California Contest  
Club)

\* Second Place

*Mark MØDXR enjoyed  
single band 15 meters  
using the callsign G9W.*



contest. This produced QSO rates in the 200+ range for many hours. Unfortunately for him, it also generated a slightly higher error rate in copying callsigns and exchanges. The penalty for errors pushed the TO7A score down and handed Valery the victory by the narrowest of margins. HD2T operated by Yuri VE3DZ finished fourth just ahead of Tom W2SC at 8P5A.

Dave NN1N set a new USA record on his way to the top USA score and #8 in the World. The "Admiral" Scott Redd KØDQ/1 visited the station of K8PO in Maine and also broke the USA record. These two scores

provide an interesting data point in the argument about rate vs multipliers. Scott ignored multipliers and spent the entire weekend running to make an incredible 5,600 QSOs before log checking (far and away the highest QSO total ever by a USA single op). Dave took the more traditional path to find 86 more multipliers in order to overcome a 500 QSO deficit. Third place went to Randy K5ZD/1 who was also above the magic 10-million point mark. Last year's winner, Alex LZ4AX at K3CR, improved on his best score, but it only earned fourth place in this very competitive year.



# 2013 CQ WW DX CW TOP SCORES

<p><b>WORLD SINGLE OPERATOR HIGH POWER ALL BAND</b></p> <p>P40F (R5GA) .....13,769,975            TO7A (UTSUGR) .....13,765,575            CR3E (CT1BOH) .....13,667,670            HD2T (VE3DZ) .....12,365,973            8P5A (W2SC) .....12,265,446            V47T (N2NT) .....11,381,279</p> <p><b>28 MHz</b></p> <p>ZD8X (OH2KI) .....2,423,123            CW5W (CX6VM) .....2,264,770            FY5KE (F6FVY) .....2,005,704</p> <p><b>21 MHz</b></p> <p>CN2R (W7EJ) .....1,796,546            5H3EE .....1,759,140            ZB1X (OH9XX/HP1WW) .....1,724,450</p> <p><b>14 MHz</b></p> <p>9Y4W (N6TJ) .....1,673,010            EA8AH (OH6CS) .....1,578,309            CS2C (OK1RF) .....1,090,073</p> <p><b>7 MHz</b></p> <p>IG9W (IZ1GAR) .....1,008,140            YT3A (YU7AV) .....964,119            CE1K7CA .....909,150</p> <p><b>3.5 MHz</b></p> <p>NP4A (WP3C) .....645,970            OL7M (OK1YM) .....484,053            W1MK .....455,715</p> <p><b>1.8 MHz</b></p> <p>S51V .....278,964            EF8S (OH2BYS) .....268,863            4L5O .....227,254</p> <p><b>SINGLE OPERATOR LOW POWER ALL BAND</b></p> <p>V26K (AA3B) .....10,261,251            3V8BB (KF5EY) .....6,985,521            VP5CW (W5CW) .....6,032,838            9J3A (S53A) .....5,181,512            N1UR .....4,752,231            YN2CC (A9JC) .....4,533,288</p> <p><b>28 MHz</b></p> <p>NP3A .....1,010,898            9X0XA (G3XAO) .....839,790            FJVA3RA (VE3IKV) .....567,000</p> <p><b>21 MHz</b></p> <p>ZD8W (W6NV) .....1,839,030            FY5FY .....1,455,279            D3AA .....1,277,370</p> <p><b>14 MHz</b></p> <p>CN8KD .....721,350            UN6LN .....513,454            UK8OM .....263,624</p> <p><b>7 MHz</b></p> <p>C6AUM (K4RUM) .....831,727            HK3O .....471,120            TMØR (F6IRA) .....443,608</p> <p><b>3.5 MHz</b></p> <p>UN7CW .....171,735            OZ4UN .....131,868            OM3ZWA .....112,612</p> <p><b>1.8 MHz</b></p> <p>UT6UD .....67,551            US7VF .....30,590            ER2RM .....25,664</p> <p><b>SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND</b></p> <p>EF9O (EA5BM) .....13,530,554            EF8U (EA8RM) .....11,955,126            A65BP (RV6LNA) .....10,432,088            K3WW .....9,997,254            DJ5MW .....8,609,022            SN7Q (SP7GIQ) .....8,605,840</p> <p><b>28 MHz</b></p> <p>PR5B (PY2LSM) .....1,718,763            LW5HR .....1,154,300            P3Z (5B4AFM) .....1,043,284</p> <p><b>21 MHz</b></p> <p>CX7CO .....1,235,136            VE6JY (VE5MX) .....1,162,694            NH2DX (KG6DX) .....1,154,602</p> <p><b>14 MHz</b></p> <p>9K2HN (9K2RR) .....1,400,316            KV2K (K2NG) .....1,022,772            YT9A .....995,100</p>	<p><b>7 MHz</b></p> <p>OMØM (OM8AW) .....1,149,531            OK1FPS .....897,806            S52AW .....862,200</p> <p><b>3.5 MHz</b></p> <p>OM2KI .....568,550            DR1D (PY2SEX) .....553,664            DM7C .....475,553</p> <p><b>1.8 MHz</b></p> <p>RD8D (RX9CAZ) .....174,974            F5UTN .....135,412            DJØMDR .....126,174            DJ4AX .....79,394</p> <p><b>SINGLE OPERATOR ASSISTED LOW POWER ALL BAND</b></p> <p>P4ØW (W2GD) .....10,264,320            EF8X (EA8AY) .....5,426,648            CN2YM (DL3YM) .....5,160,438            S53F .....4,421,268            KS1J .....4,303,978            KP2B (WP3A) .....4,205,968</p> <p><b>28 MHz</b></p> <p>LO4D (LW9EOC) .....1,164,670            ZR9C (ZS6WN) .....517,914            LU7HF .....420,515</p> <p><b>21 MHz</b></p> <p>GW5R (GW3YDX) .....1,000,128            KE7X .....418,935            E74A .....413,780</p> <p><b>14 MHz</b></p> <p>CE3AA (XQ4CW) .....730,959            RA9AP .....578,858            OLSW .....448,572</p> <p><b>7 MHz</b></p> <p>YT2AA .....466,990            HG5D (HA8OZ) .....426,122            S52W .....420,979</p> <p><b>3.5 MHz</b></p> <p>LZ2SC .....151,452            OK1AY .....117,600            ER3AU .....114,387</p> <p><b>1.8 MHz</b></p> <p>E74O .....77,868            MWØEDX .....70,231            IKØXBX .....35,856</p> <p><b>SINGLE OPERATOR QRP ALL BAND</b></p> <p>K1TO/4 .....2,758,313            RW9RN .....1,377,075            N1IX .....1,118,597            HG3M .....1,035,588            LYSG .....1,005,800            JH1OGC .....916,150</p> <p><b>28 MHz</b></p> <p>K3OO .....260,022            KR2O .....232,440            GM3YEH .....116,085</p> <p><b>21 MHz</b></p> <p>V73NS .....134,100            JO1NGT .....125,235            SP4JFR .....96,139</p> <p><b>14 MHz</b></p> <p>US5VX .....122,332            VU2UR .....60,170            HA6VV .....59,976</p> <p><b>7 MHz</b></p> <p>CO8DM .....77,924            YV5EN .....64,894            G4BDW .....48,190</p> <p><b>3.5 MHz</b></p> <p>T43T (CO3IT) .....121,040            SP4GL .....39,825            UT3EK .....20,591</p> <p><b>1.8 MHz</b></p> <p>HA5NB .....17,576            RA2FB .....7,439            UT5EO .....5,445</p> <p><b>SINGLE OPERATOR ASSISTED QRP ALL BAND</b></p> <p>RA3AN .....1,251,720            RT4W .....1,243,512            NØUR .....1,027,040            DM2M (DK3WE) .....925,903            OK7CM .....693,200            NF1R/6 .....624,723</p>	<p><b>28 MHz</b></p> <p>JR3RWB .....121,914            F4BKV .....119,988            SO6C (SP6CIK) .....98,412</p> <p><b>21 MHz</b></p> <p>DL1EFW .....179,077            HA3JB .....132,924            VE6BMX .....128,721</p> <p><b>14 MHz</b></p> <p>YU1LM .....130,950            IK6FWJ .....66,918            EE3C (EA3KX) .....48,124</p> <p><b>7 MHz</b></p> <p>YUØW .....127,002            DJ2RG .....71,064            UT4FJ .....68,500</p> <p><b>3.5 MHz</b></p> <p>UT3L (UR5LO) .....64,703            UX5UU .....44,850            HG6C (HA6IAM) .....39,975</p> <p><b>1.8 MHz</b></p> <p>HA8BE .....22,824            HA7I (HA7JTR) .....22,021            UT3N (UT3NK) .....13,668</p> <p><b>MULTI-OPERATOR SINGLE TRANSMITTER</b></p> <p>CN2AA .....33,276,270            P33W .....28,158,800            P3N .....27,515,496            TM6M .....16,420,000            9A1P .....15,472,217            6Y7W .....15,161,416</p> <p><b>MULTI-OPERATOR TWO-TRANSMITTER</b></p> <p>CR3L .....36,230,790            P4ØL .....32,307,440            PJ4A .....28,675,548            4LØA .....26,504,016            TCØA .....26,039,811            UP2L .....25,735,413</p> <p><b>MULTI-OPERATOR MULTI-TRANSMITTER</b></p> <p>D4C .....68,145,325            HK1NA .....40,698,588            PJ2T .....39,795,573            K3LR .....33,910,848            W3LPL .....32,270,976            ES9C .....30,790,130</p> <p><b>ROOKIE HIGH POWER</b></p> <p>R4WDX .....1,472,450            JA1ZLO (JE6MDL) .....235,572            KK4EIR .....139,442</p> <p><b>ROOKIE LOW POWER</b></p> <p>N1EN .....2,957,306            DM3ZM .....428,420            W4TTM .....396,633</p> <p><b>CLASSIC HIGH POWER</b></p> <p>VY2ZM (K1ZM) .....4,478,376            K3ZM/4 .....3,587,808            CT3KN .....3,529,625</p> <p><b>CLASSIC LOW POWER</b></p> <p>SU9AF (RW3AH) .....3,313,875            K1BX .....1,767,558            K1HT .....1,519,388</p> <p><b>UNITED STATES SINGLE OPERATOR HIGH POWER ALL BAND</b></p> <p>NN1N .....10,652,128            KØØD/1 .....10,297,950            K5ZD/1 .....10,050,712            K3CR (LZ4AX) .....9,925,004            K1ZZ .....8,782,400            KQ2M/1 .....8,419,257</p> <p><b>28 MHz</b></p> <p>K1RM .....720,954            N2IC/5 .....667,959            K8MFO .....550,942</p> <p><b>21 MHz</b></p> <p>K3RV/4 .....980,880            WA3A .....768,447            N1XS/5 .....395,318</p> <p><b>14 MHz</b></p> <p>N5NU .....670,171            W8TA .....590,564            N5CR/7 .....530,208</p>	<p><b>7 MHz</b></p> <p>W3BGN .....841,708            NR5M (K5GA) .....737,009            W7WA .....562,028</p> <p><b>3.5 MHz</b></p> <p>W1MK .....455,715            K3JGJ .....67,973            AA5B .....45,696</p> <p><b>1.8 MHz</b></p> <p>K4PI .....45,724            N7GP (N5IA) .....38,464            NØTT .....23,499</p> <p><b>SINGLE OPERATOR LOW POWER ALL BAND</b></p> <p>N1UR .....4,752,231            W3EF .....4,365,975            N5AW .....3,704,276            N4TZ/9 .....3,527,216            NA8V .....3,200,146            K2PØ/7 .....2,133,314</p> <p><b>28 MHz</b></p> <p>N8II .....418,761            WB4TDH .....335,240            W3EP/1 .....319,009</p> <p><b>21 MHz</b></p> <p>KU2M .....719,374            W2AW (N2GM) .....356,555            W8IO .....234,580</p> <p><b>14 MHz</b></p> <p>K1EF1/3 .....43,050            WB3CI .....10,716            N9GBB .....6,656</p> <p><b>7 MHz</b></p> <p>K9UIY .....151,740            NS3T .....101,864            WØ9S .....70,686</p> <p><b>3.5 MHz</b></p> <p>NS7K .....2,449</p> <p><b>1.8 MHz</b></p> <p>KM1R .....6,517            WØBDSB/9 .....1,988            N2FJ .....250</p> <p><b>SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND</b></p> <p>K3WW .....9,997,254            N3RS .....8,518,809            NY3A .....7,810,750            AB3CX/2 .....7,103,937            K9NW .....6,412,477            K1AR .....6,319,210</p> <p><b>28 MHz</b></p> <p>WØMM/5 .....681,660            NN4X .....598,970            N4ZR/8 .....549,564</p> <p><b>21 MHz</b></p> <p>WA6O .....603,801            W9ILY .....491,415            N5ZC .....395,411</p> <p><b>14 MHz</b></p> <p>KV2K (K2NG) .....1,022,772            K1JB .....391,960            WR2G .....142,857</p> <p><b>7 MHz</b></p> <p>K3EST/6 .....647,675            K9OM .....547,950            N6MA/7 .....359,100</p> <p><b>3.5 MHz</b></p> <p>K9RS/3 .....248,880            N6SS/7 .....207,834            K4JPD .....126,420</p> <p><b>1.8 MHz</b></p> <p>W4SVO .....24,900            KU5B .....19,912            N6VR/7 .....17,836</p> <p><b>SINGLE OPERATOR ASSISTED LOW POWER ALL BAND</b></p> <p>KS1J .....4,303,978            W3KB .....3,157,260            NM5M .....3,005,667            N1EN .....2,952,268            W6AAN/3 .....2,682,570            W1NT .....2,502,291</p> <p><b>28 MHz</b></p> <p>NA3M/4 .....196,840            K1ZO .....186,048            WB2AA .....176,120</p>	<p><b>21 MHz</b></p> <p>KE7X .....418,935            WØDLE .....311,395            WE9R .....257,920</p> <p><b>14 MHz</b></p> <p>W3IQ/8 .....194,434            NW4V .....135,904            NM5Y .....114,300</p> <p><b>7 MHz</b></p> <p>N4IJ/5 .....214,020            K9LA .....59,682            KV4QS .....32,544</p> <p><b>3.5 MHz</b></p> <p>W2DX .....1,325            NJØF .....814            K2BB .....6</p> <p><b>1.8 MHz</b></p> <p>W2MF .....11,340            W6AWW .....1,071            K5QY .....756</p> <p><b>SINGLE OPERATOR QRP ALL BAND</b></p> <p>K1TO/4 .....2,758,313            N1IX .....1,118,597            N1TM .....842,080            N7IR .....805,763            NA4CW .....721,532            NØOC .....583,376</p> <p><b>28 MHz</b></p> <p>K3OO .....260,022            KR2O .....232,440            N4AU .....19,680</p> <p><b>21 MHz</b></p> <p>KØFLY .....90,850            AA1CA .....62,222            KN1H .....23,214</p> <p><b>14 MHz</b></p> <p>N3JT/4 .....13,924            W8NNC .....8,036            NUØT .....7,150</p> <p><b>7 MHz</b></p> <p>KØOD .....45,308            N2JNZ .....27,740            W8BREI .....11,440</p> <p><b>3.5 MHz</b></p> <p>K1ØG/5 .....7,250            K9JWW/7 .....2,756</p> <p><b>1.8 MHz</b></p> <p>W7DRA .....36            K2MIJ .....24</p> <p><b>SINGLE OPERATOR ASSISTED QRP ALL BAND</b></p> <p>NØUR .....1,027,040            NF1R/6 .....624,723            K8ZT .....513,603            N4LA .....261,360            NU4B .....176,755            NQ2W .....127,140</p> <p><b>28 MHz</b></p> <p>W4OO .....77,862            KU7Y .....74,865            NA5NN (K2FF) .....33,234</p> <p><b>21 MHz</b></p> <p>K5ND .....89,376            K3TW/4 .....79,492            NN7SS (K6UFO) .....68,295</p> <p><b>1.8 MHz</b></p> <p>NW3R (NH7C) .....240</p> <p><b>MULTI-OPERATOR SINGLE TRANSMITTER</b></p> <p>W1WMU .....12,649,572            K8AZ .....11,352,484            W1VE .....10,189,638            K5TR .....9,273,099            K2OMF .....8,792,616            AA9A .....8,541,295</p> <p><b>MULTI-OPERATOR TWO-TRANSMITTER</b></p> <p>K1LZ .....24,945,250            KC1XX .....24,855,792            N1LN/4 .....15,187,644            K9CT .....14,915,716            NØNI .....11,882,290            KB1H .....11,296,902</p> <p><b>MULTI-OPERATOR MULTI-TRANSMITTER</b></p> <p>K3LR .....33,910,848</p>	<p>W3LPL .....32,270,976            W2FU .....26,873,277            WE3C .....26,304,360            NR4M .....21,738,600            NQ4I .....20,450,116</p> <p><b>ROOKIE HIGH POWER</b></p> <p>KK4EIR .....139,442            AB1OC .....17,372</p> <p><b>ROOKIE LOW POWER</b></p> <p>N1EN .....2,957,306            W4TTM .....396,633            WB4IT .....211,968</p> <p><b>CLASSIC HIGH POWER</b></p> <p>K3ZM/4 .....3,587,808            W2BC (W2RU) .....3,466,466            N2MF .....3,365,280</p> <p><b>CLASSIC LOW POWER</b></p> <p>K1BX .....1,767,558            K1HT .....1,519,388            W1GD .....1,224,689</p> <p><b>EUROPE SINGLE OPERATOR HIGH POWER ALL BAND</b></p> <p>4Ø3A (4Ø4A) .....9,184,560            UA5C .....7,146,405            OH2BH (OH6KZP) .....6,868,240            KHØV (OH6LI) .....6,777,680            OHØZ (OH6EI) .....6,198,885            M6T (G4BUO) .....5,803,868</p> <p><b>28 MHz</b></p> <p>GM3X (GM3POI) .....864,747            I19P (IT9GSF) .....622,398            LZ4TX .....537,264</p> <p><b>21 MHz</b></p> <p>TF3CW .....883,040            G9W (MØDXR) .....867,340            GM5X (GM4YX) .....847,653</p> <p><b>14 MHz</b></p> <p>CS2C (OK1RF) .....1,090,073            E73W .....1,035,408            LN3Z (LA6YEA) .....910,741</p> <p><b>7 MHz</b></p> <p>YT3A (YU7AV) .....964,119            S51V .....897,288            S57Z .....823,194</p> <p><b>3.5 MHz</b></p> <p>OL7M (OK1YM) .....484,053            Z35T .....302,376            YT4A (YT1AA) .....260,640</p> <p><b>1.8 MHz</b></p> <p>S51V .....278,964            LY7M .....149,256            OK2W .....131,310</p> <p><b>SINGLE OPERATOR LOW POWER ALL BAND</b></p> <p>EA7ØT .....3,442,707            EA4KD .....2,658,084            LY6A .....2,634,530            RA1AL .....1,850,750            UA2FL .....1,589,160            LA3S (LA3BO) .....1,564,765</p> <p><b>28 MHz</b></p> <p>OK1FDR .....393,432            HGØR (HAØNAR) .....357,875            DL4AAE .....311,360</p> <p><b>21 MHz</b></p> <p>EW6AF .....224,502            UA3XAO .....217,065            G4ERW .....201,788</p> <p><b>14 MHz</b></p> <p>DL9ZP .....257,336            HA6ØA .....256,376            ER1ØO .....222,942            SP6ZC .....194,600</p> <p><b>7 MHz</b></p> <p>TMØR (F6IRA) .....443,608            UØ6J (UØ2CW) .....313,576            9A9R .....308,568</p> <p><b>3.5 MHz</b></p> <p>OZ4UN .....131,868            OM3ZWA .....112,612            DL6KWN .....85,744</p>
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<b>1.8 MHz</b>	<b>7 MHz</b>
UT6UD.....67,551	G4DBW.....48,190
US7VF.....30,590	Y04BEW.....48,110
ER2RM.....25,664	SP7BCA.....45,346
<b>SINGLE OPERATOR ASSISTED HIGH POWER ALL BAND</b>	<b>3.5 MHz</b>
DJ5MW.....8,609,022	SP4GL.....39,825
SN7Q (SP7GIC).....8,605,840	UT3EK.....20,591
UW3U (UT7UJ).....8,221,603	YOBRX.....19,376
S53MM.....8,176,894	<b>1.8 MHz</b>
E73M.....7,523,992	HA5NB.....17,576
IR2C (IK2PFL).....7,296,562	RA2FB.....7,439
<b>28 MHz</b>	UT5EO.....5,445
G3TXF.....912,540	<b>SINGLE OPERATOR ASSISTED QRP ALL BAND</b>
OK7K (OK1GK).....759,425	RA3AN.....1,251,720
OT1A (ON4CCP).....627,096	RT4W.....1,243,512
<b>21 MHz</b>	DM2M (DK3WE).....925,903
DL1IAO.....925,080	OK7CM.....693,200
OL3Z (OK1HMP).....886,044	RZ3OS.....585,492
EA6FO (EA3ALZ).....870,506	SM0THU.....535,493
<b>14 MHz</b>	<b>28 MHz</b>
YT9A.....995,100	F4BKV.....119,988
9A5Y (9A5CM).....920,000	SO6C (SP6CIK).....98,412
HA7GN.....844,610	EC4TA.....88,842
<b>7 MHz</b>	<b>21 MHz</b>
OM0M (OM8AW).....1,149,531	DL1EFW.....179,077
OK1FPS.....897,806	HA3JB.....132,924
S52AW.....862,200	EA5ON.....79,506
<b>3.5 MHz</b>	<b>14 MHz</b>
OM2K1.....568,550	YU1LM.....130,950
DR1D (PY2SEX).....553,664	IK6FWJ.....66,918
DM7C.....475,553	EE3C (EA3KX).....48,124
<b>1.8 MHz</b>	<b>7 MHz</b>
F5UTN.....135,412	YU0W.....127,002
DJ0MDR.....126,174	DJ2RG.....71,064
UR5AS.....107,272	UT4FJ.....68,500
<b>SINGLE OPERATOR ASSISTED LOW POWER ALL BAND</b>	<b>3.5 MHz</b>
S53F.....4,421,268	UT3L (UR5LO).....64,703
Y78A (YU1EA).....3,883,740	UX5UU.....44,850
LY7Z.....3,650,742	HG6C (HA6IAM).....39,975
LY3B.....3,563,937	<b>1.8 MHz</b>
DL4MCF.....3,479,490	HA8BE.....22,824
UX4U.....3,378,575	HA7I (HA7JTR).....22,021
<b>28 MHz</b>	UT3N (UT3NK).....13,668
I0UZF.....406,847	<b>MULTI-OPERATOR SINGLE TRANSMITTER</b>
UX1AA.....318,872	TM6M.....16,420,000
OM5XX.....317,900	9A1P.....15,472,217
<b>21 MHz</b>	OM7M.....14,776,537
GW5R (GW3YDX).....1,000,128	IR4M.....14,730,210
E74A.....413,780	UZ2M.....14,548,992
M6W (G0DEZ).....354,276	E7DX.....14,147,450
<b>14 MHz</b>	<b>MULTI-OPERATOR TWO-TRANSMITTER</b>
OL5W.....448,572	LX7I.....19,956,790
RM5D.....392,304	S50G.....14,500,056
IK8TE.....256,770	SK3Q.....14,464,725
<b>7 MHz</b>	LY2W.....14,238,840
YT2AAA.....466,990	YU5R.....13,861,358
HG5D (HA8QZ).....426,122	HG7T.....13,516,019
S52W.....420,979	<b>MULTI-OPERATOR MULTI-TRANSMITTER</b>
<b>3.5 MHz</b>	ES9C.....30,790,130
LZ2SC.....151,452	9A1A.....28,737,234
OK1AY.....117,600	DR1A.....25,407,020
ER3AU.....114,387	ED6A.....22,839,840
<b>1.8 MHz</b>	LZ9W.....21,496,904
E74O.....77,868	DF0HQ.....20,509,662
MW0EDX.....70,231	<b>ROOKIE HIGH POWER</b>
IK0XBX.....35,856	R4WDX.....1,472,450
<b>SINGLE OPERATOR QRP ALL BAND</b>	SO9KEJ.....117,055
HG3M.....1,035,588	YP6Z (Y06SZ).....61,830
LY5G.....1,005,800	<b>ROOKIE LOW POWER</b>
UA7G.....883,623	DM3ZM.....428,420
SP9NSV.....838,090	DL3RH.....204,470
YL2CV.....776,917	SO3PMM.....135,610
LZ0M (LZ2SX).....639,975	<b>CLASSIC HIGH POWER</b>
<b>28 MHz</b>	TM6X (F5VHY).....2,755,156
GM3YEH.....116,085	EW2A.....2,701,350
LZ2RS.....113,870	RM2U (RU3UR).....2,522,690
G4CWH.....65,604	<b>CLASSIC LOW POWER</b>
<b>21 MHz</b>	GI5I (G4DOH).....1,203,728
SP4JFR.....96,139	R3VO.....1,014,854
F5VBT.....90,248	ED4M (EA4ZK).....997,904
SP4GFC.....77,804	
<b>14 MHz</b>	
US5VX.....122,332	
HA6VV.....59,976	
EI4II.....58,410	



Operating crew at multi-multi station K3LR.

The European winner was 4O3A operated by Dragan 4O4A. Ranko explained the decision to make his station available: "Dragan is going on a peacekeeping mission in Afghanistan and will be there almost until the end of 2014. I believe he will miss the radio a lot, so I decided to give him the CW part this year, for his first-ever serious SOAB try." Alexandr UA5C finished in second place ahead of three Finns: Kim OH6KZP drove OH2BH ahead of Jukka OH6LI at OH0V and Tomi OH6EI at OH0Z. It shows how good conditions were to have northern Europe be so competitive.

### Single Operator All Band – Low Power

The Low Power category was dominated by Bud AA3B operating from the rebuilt station of V26K. Bud had a very accurate log and ended up with an impressive 6,751 contacts, 141 zones, and 462 countries to set a new world record for the category! WRTC2014 competitor Ashraf KF5EYY operated 3V8BB to second place. Dave W5CW made his annual trip to VP5CW and finished a very respectable third.

It was a real dogfight for the rest of the spots in the Top Ten. Niko S53A went on an African safari using very simple antennas to take fourth place as 9J3A. Ed N1UR took fifth place and set a new all-time USA record. The second place USA score, and number 6 overall, was by Maury W3EF. Maury missed the first 2 hours and 45 minutes of the contest due to a series of airline flight cancellations and rebookings that would have left most people unable to operate, much less put in a full effort over the weekend! Marv N5AW cracked the world Top Ten and set a new record for the W5 call area.

There were some great races within Europe, as well. Jose EA7OT walked away

from fellow countryman Pedro EA4KD for the top spot. Rimas LY6A finished a very close third. Northern Europe took the next three spots with RA1AL, UA2FL, and LA3S.

### Single Operator Assisted

There were 1,079 entries in the All Band Assisted High Power category this year. The winner was a one-man expedition by Juan EA5BM operating as EF9O. Juan drove 500 km and then took an 8-hour ferry ride to Melilla before setting up all of his own antennas on the roof of a building in the two days before the contest. You can view pictures of his setup at <http://tinyurl.com/q22osjn>. Second place was another Juan, EA8RM, operating from the club station of EF8U. It was his first serious attempt at a single operator effort in CQWW. Some equipment problems caused him to be off the air for most of the first 3 hours. That missing time may have cost him the win. Chas, K3WW, just missed breaking 10-million points as the top USA score. Manfred DJ5MW finished ahead of Krzysztof SN7Q by the narrowest of margins (3,200 points!) to claim the top European score. UW3U and S53MM had a close race for third.

The All Band Assisted Low Power category had 821 entries. The top score and new all-time world record was from P40W operated by John W2GD. Here is how John reports his efforts to set up for the contest: "2200 feet of feed lines and control cabling had been unrolled and connected, all Beverages repaired, and 700 feet of Yagi elements on the 4-el 40m and 3-el 80m wire beams aimed toward EU are deployed using 1500 feet of nylon string to support the element ends. K3 is set up, and TX and RX antenna switching systems hooked up and tested." Whew, makes you wonder how he has energy left to do the contest!





slowing down his 48-hour winning contest efforts in spite of being 74 years old!

With the higher bands being so good, the low bands suffered a bit both due to propagation and less activity. The winning score on 40 meters was by Emilio IZ1GAR enjoying the three-point advantage of African Italy at IG9W. Close behind was Vojislav YU7AV operating YT3A. The champion on 80 meters was the mountaintop station of NP4A operated by Alfredo WP3C. Oldrich OK1YM was testing a new antenna on his way to second place from OL7M. Robye W1MK made his usual fantastic score to finish third overall. 160 meters was a three continent race among Silvo S51V, Mauri OH2BYS at EF8S, and Omari 4L5O.

Three stations broke the world record for low power on 15 meters: ZD8W by Oliver W6NV, Didier FY5FY (at FY5KE), and Mikhail D3AA. All were also welcome multipliers in many logs!

There were a number of new records set in the Assisted single band categories. The high power 10 meters record was broken by Alan PY2LSM at PR5B. Alan now holds both the Assisted 10 and 15 meter world records. Hamad 9K2RR just missed setting a new high power 20 meter record from 9K2HN. On 15 meters low power, Ron GW3YDX used the contest call GW5R to nearly double the existing record.

## QRP

The record 506 entries in the various QRP categories offered more proof of just how good conditions were. The All Band category was dominated by Dan K1TO/4 breaking the USA record set by Rick K3OO back in 2000. Dan explained his strategy this way: "I typically tuned right past big pileups. The goal was to find stations with 'no' other callers. Even one other caller and I was generally out of luck." That constant searching paid off with a big win. Second place went to Andy RW9RN. The aforementioned K3OO did set a new USA record while winning 10 meters. Neil V73NS and Kenji JQ1NGT,

both far from the contest population centers, vied for the top spot on 15 meters. It was a very close race for the top All Band Assisted class with Nick RA3AN just ahead of Mike RT4W.

## Overlay Categories

This was the first year for Overlay categories in CQ WW. The overlay categories are a parallel competition that runs in addition to the traditional scores. There were 56 entries in the Rookie category which is for operators that have been licensed less than three years. Michael N1EN had the highest Rookie score, just a few weeks under the three-year eligibility limit. The top high power Rookie score was by Andrei R4WDX. Take a look at the Rookie scores to follow these up-and-coming contesters.

The Classic Overlay category is for single operator stations that use only one radio and no DX spotting assistance. The Classic Overlay score is calculated using only the first 24 hours of operating time. The high power competition was a battle between two brothers. Jeff K1ZM operated VY2ZM to world high. Second place was his brother Peter K3ZM/4. Ricardo CT3KN was a very close third. The low power competition was won easily by Andrew RW3AH operating from Egypt as SU9AF. Second place was a chase between two New Englanders, Art K1BX and Dave K1HT.

## Multi-Operator

The Multi-Single category had 185 entries this year. The team at CN2AA not only repeated their victory from the SSB contest, they raised the world record for the category by more than 20%! The previous record holder, P33W, also broke the record. Close behind was another Russian team at P3N. These two efforts helped explain how there were over 32,000 contacts reported with the small island of Cyprus. TM6M and 9A1P raced for the top European score. The chase for top USA score was between a W5 contingent visiting W1WMU in far eastern Maine vs the experienced multi-op team at K8AZ in northeast Ohio.

The Multi-Two category had a number of interesting continental competitions. The winning score was by a team of Rhein Ruhr DX Association members who travelled to CR3L. The next two places were between P40L in Aruba and PJ4A in Bonaire. P40L got the win and the new South America record. The fourth and fifth place finishers both exceeded the existing score record for Asia, with 4L0A taking the new record over TC0A and close finisher UP2L. The seventh and eighth place scores were between rivals K1LZ and KC1XX who both broke the existing USA record. After 9000 contacts, they finished less than 100K apart in score!

The D4C team was back for another attempt at the 1999 CN8WW world record in the Multi-Multi category. Team D4C made over

### EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
4O3A	336/17/61	687/21/76	1473/30/96	1151/30/103	1497/34/110	1258/32/100
UA5C	302/12/52	797/24/91	1412/34/111	1000/32/98	1019/36/109	702/34/102
OH2BH	161/11/45	773/25/84	1126/32/102	1063/35/103	826/35/105	875/36/108
OH0V	423/12/56	786/19/64	1598/32/108	1073/32/88	1166/33/100	844/31/90
OH0Z	259/14/52	732/16/72	985/34/92	931/35/98	958/37/109	908/32/102

### EUROPE SINGLE OPERATOR ASSISTED ALL BAND

DJ5MW	143/16/64	600/28/109	1068/37/136	1082/39/144	740/40/139	605/36/138
SN7Q	110/15/51	684/30/95	1507/33/101	1094/37/106	826/38/121	905/35/114
UW3U	270/13/59	725/24/98	1133/37/132	811/37/131	891/40/138	855/37/141
S53MM	112/13/58	677/25/92	1569/39/133	764/36/120	656/39/135	705/36/113
E73M	59/12/55	289/19/80	1358/37/122	1117/35/122	820/37/130	735/37/126

### EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

TM6M	130/18/79	677/34/119	1894/38/147	1538/38/145	1180/40/151	1722/39/152
9A1P	270/23/91	990/36/128	1913/39/147	1373/39/147	1238/40/152	1341/38/151
OM7M	149/20/75	397/32/116	2240/38/145	1142/39/149	1468/40/151	1153/39/153
IR4M	142/20/80	577/31/114	1821/39/145	1552/39/145	1512/39/152	1017/37/149
UZ2M	310/24/85	937/36/126	2081/38/146	1360/39/147	1815/40/154	1066/38/151

### EUROPE MULTI-OPERATOR TWO TRANSMITTER

LX7I	633/18/73	1923/34/114	2386/39/137	1871/37/138	2236/39/145	1596/37/148
S5G	380/17/68	1317/26/105	2011/39/141	1398/39/139	1597/40/145	971/38/135
SK3W	291/17/67	1307/33/119	1572/39/146	1323/38/148	1751/40/145	1249/37/150
LY2W	592/19/75	1378/31/111	2017/39/140	1405/40/144	1322/39/146	817/38/144
YU5R	390/17/67	1462/32/116	1959/39/144	996/39/146	1485/40/147	1122/39/147

### EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

ES9C	1257/25/94	2434/35/132	3398/39/155	3270/40/158	2735/40/162	2152/40/165
9A1A	1442/21/88	2170/33/125	3459/39/148	2931/39/150	2272/40/153	1927/38/152
DR1A	1078/21/87	2190/32/124	2679/39/148	2755/38/150	2021/40/154	1860/40/155
ED6A	1148/19/79	2113/33/113	3575/38/137	3048/38/142	2457/38/136	1938/34/126
LZ9W	945/19/72	1874/34/121	2935/39/148	2852/39/148	1687/38/143	1601/39/148



*In the action at PJ2T. DF9LJ is running on 20 and behind him RW0CN on 40.*





52 paper logs received. We couldn't do the results without the help of Ken K1EA and all of his time and effort to constantly improve the log checking software. John K1AR handles the plaque program and Barry W5GN makes sure the 2064 certificates will get into the mail. Also thanks to the World Wide Radio Operators Foundation (wwrof.org) for their support of the IT infrastructure required to host the website, manage the log robot, and perform the log checking.

Another great CQ WW competition is now in the books. The anticipation and excitement of those early wireless pioneers is still alive at 0000Z each year when the CQ WW hits

the bands. We look forward to seeing everyone again next year for the CQ WW DX CW Contest on November 29–30, 2014. Full rules, records, line scores, and other information is available on the web at <[www.cqww.com](http://www.cqww.com)>. The expanded results of the 2013 contest are also available on the CQ website at <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)>.

See you in the next contest!

73, Randy, K5ZD

### CQ WW Station Scores Online

This year's CQ WW results complete CQ magazine's year-long transition to publishing individual station scores ("line scores") on CQ's website only. To access the line scores go to the CQ home page at <[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)> and click on the link under the current issue highlights.—W2VU

### Notes

1. The Fourth Time's the Charm, <<http://w2pa.net/HRH/the-fourth-times-the-charm/>>
2. "President Maxim Testifies at Washington," QST, April 1930, p. 29.

## A Contest Story—EL2DT

By Bud Semon, N7CW, and Dickson Tarnue, EL2DT



The home and antenna system at EL2DT.



Operating position of Dickson, EL2DT.

When the Voodoo Contest Group left Liberia after the CQ WW DX CW Contest in 2012, we had to get rid of almost 20 years of accumulated equipment that we had been transporting all around West Africa. Much of it went to the Liberian Radio Amateur Association, but we left a complete station—including radio, computer, tower, antennas, coax, etc.—with Dickson, EL2DT. We were also able to provide some financial support that allowed him to finish building a house and move out of the one room he shared with his wife, Kebeh, and their two children.

With much hard work and perseverance, he was able to erect the tower and get a Yagi installed. Since all the electric power infrastructure in Liberia was destroyed in the war, he managed to find a small generator and get on the air, although fuel is very expensive; it's sold by the quart in glass jars.

He spent as much time as possible on the air and practicing with N1MM Logger. As the 2013 CQ WW DX CW Contest drew near, the Voodudes were able to provide a bit more financial support—enough to buy gasoline so the generator could be run for the contest.

Although Dickson was unable to operate the entire contest, he managed a respectable 20.5 hours on the air. The result was 1400 QSOs in 69 zones and 216 countries.

Here is a short write-up in Dickson's own words:

"My participation in this year's CQ WW Contest was a very exciting moment for me ever because this is the very first of its kind that a local Liberian has joined and operated a single station with a single operator in such a worldwide contest.

"When I decided to join this year's contest it appeared almost impossible to me, most especially where my station is located in a very remote part of Monrovia where there is no city power available. I had to operate from a generator and the station on low power, with nowhere to keep the generator secure for night operation, etc.

"It also turned out that the Voodoo Contest Group is expert in helping other hams to be encouraged and confident to take part in a contest like this. When I discussed my plan to some friend Voodoos, they told me that it was a good idea and they would be happy to also make a contact with Liberia in the contest.

"On the 20th of November, I started setting up and testing antennas on various bands. Before early morning of 20th November, I was ready for operation on 40m, 20m, 15m and 10m with generator power. Even though copying stations from the huge pileups was not quite easy for me, I was also experiencing heavy noise from the generator outside, not too far from my operating shack.

"Though I received no visitors during the contest, it was all climaxed by my wife Kebeh, who came in the shack almost after every one hour to ask, 'What have your friends said?' I continue to inform her that I was in a contest. After several hours, she was not satisfied with my answer and could no longer hold back. She insisted that she wanted to listen to the radio. When I gave her the ear piece, she said, 'I am hearing a lot of noise.' I told her that they were calling my call sign. She asked that I should also give her a call sign so my friends can call her. I promised to have a call sign for her before the next year's CQWW Contest. So, my biggest challenge now is to make sure my wife becomes a ham and takes part in the CQWW Contest for next year. I need all of your support.

"I want to take this time to extend my thanks and appreciation to all my friends who gave me the encouragement and support for me to participate in this contest."—EL2DT