Results of the 2013 CQ WW DX CW Contest

BY RANDY THOMPSON,* K5ZD

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

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!¹

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:²

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 fran-

tic 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 W/VE 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

SINGLE OPERATOR ALL BAND World P4ØF (Opr.: Valery Petrov, R5GA) Donor: Vibroplex

World Low Power V26K (Opr.: Bud Trench, AA3B) Donor: Slovenia Contest Club

World - QRP Dan Street, K1TO/4 Donor: Gene Walsh, N2AA

World - Assisted EF90 (Opr.: Juan Luis Pla Nebot, EA5BM) Donor: Robert McGwier, N4HY

World - Assisted- Low Power P4ØW (Opr.: John Crovelli, W2GD) Donor: Lyubomir "Leo" Slavov, OR2F

World – Assisted - QRP Nick Kornev, RA3AN Donor: Steve "Sid" Caesar, NH7C

USA Dave Patton, NN1N Donor: Frankford Radio Club

USA - Low Power Ed Sawyer, N1UR Donor: North Coast Contesters

USA - QRP David Leduc, N1IX* Donor: W3ZZ Memorial (Andy Blank, N2NT)

USA - Assisted Chas Fulp, Jr., K3WW Donor: John Rodgers, WE3C

USA Assisted - Low Power James P. Bowman, KS1J Donor: LA9Z/LN9Z Leia Contest Club

USA - Zone 3 Bob Wolbert, K6XX Donor: Central Arizona DX Association

USA - Zone 4 Dave McCarty, K5GN Donor: The Society of Midwest Contesters

Europe Ranko Boca, 4O3A Donor: W3AU Memorial (Florida Contest Group)

Europe - Low Power Jose Haro Lora, EA7OT Donor: Tim Duffy, K3LR

Europe - QRP Istvan Vajda, HG3M Donor: I4FAF Memorial (Sergio Cartoceti, IK4AUY)

Europe - Assisted Manfred Wolf, DJ5MW Donor: I4IND Memorial (Claudio Veroli, I4VEQ)

Europe – Assisted – Low Power Vinko Gregorcic, S53F Donor: Alex Goncharov, R3ZZ

Africa CR3E (Opr.: Jose Carlos Cardoso Nunes, CT1BOH) Donor: K5KA Memorial (Ralph "Gator" Bowen, N5RZ)

Asia Anatoly Polevik, RC90 Donor: W5PG Memorial (DFW Contesting Group)

Carib./C.A. TO7A (Opr.: Dimitry Stashuk, UT5UGR) Donor: W5PG Memorial (DFW Contesting Group)

Carib./C.A. – Low Power VP5CW (Opr.: Dave Horn, W5CW)* Donor: Albert Crespo, NH7A

Oceania 9M6NA (Opr.: Saty Nakamura, JE1JKL) Donor: CQ magazine

South America HD2T (Opr.: Yuri Onipko)* Donor: Dave Farnsworth, WJ2O

South America - Southern Cone (CE, CX, LU) - High Power CE3CT (Opr.: Martin Monsalvo, LU5DX) Donor: Dale Long, N3BNA

South America - Southern Cone (CE, CX, LU) – Low Power LU8XW (Opr.: Oscar Vais, LU1XS) Donor: LU Contest Group

ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU) - Low Power Renato Schlittler, HS0ZLN Donor: Bob Kupps, N6BK

Scandinavia (LA, OH, OZ, SM) OH2BH (Opr.: Kim Ostman, OH6KZP) Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)

Battic (ES, LY, YL) Albertas Pipiras, LY5R Donor: LY2OO Memorial (Lithuanian Radio Sports Federation)

Canada VY2TT (Opr.: Kenneth S. Widelitz, K6LA) Donor: John Sluymer, VE3EJ & Jim Roberts, VE7ZO

Russia Alexandr Gimanov, UA5C* Donor: Roman Thomas, RZ3AA

Japan Masaki Masa Okano, JH4UYB Donor: Phil Yasson, AB7RW

Japan - Low Power Nobuhiro Iwasa, JH8SLS Donor: Western Washington DX Club

SINGLE OPERATOR, SINGLE BAND World - 28 MHz ZD8X (Opr.: Jorma Saloranta, OH2KI) Donor: Joel Chalmers, KG6DX

World - 21 MHz CN2R (Opr.: Jim Sullivan, W7EJ) Donor: Lew Sayre, W7EW

World - 14 MHz 9Y4W (Opr.: Jim Neiger, N6TJ) Donor: W2JT Memorial (North Jersey DX Assn.)

World - 7 MHz IG9W (Opr.: Emilio Borea, IZ1GAR) Donor: Alex M. Kasevich, 8R1A

World - 3.5 MHz NP4A (Opr.: Alfredo Velez Ramos) Donor: Fred Capossela, K6SSS

World - 1.8 MHz Silvo Knuplez, S51V Donor: Kenneth Byers, Jr., K4TEA

> USA - 28 MHz Vincent Sgroi, K1RM Donor: dxcoffee.com

USA - 21 MHz Carl Kratzer, K3RV/4 Donor: Bob Naumann, W5OV

USA - 14 MHz Jason Goldsberry N5NU Donor: Northern Illinois DX Association

USA - 7 MHz Steven Sussman, W3BGN Donor: W6AM Memorial (Jan Perkins, N6AW)

USA - 3.5 MHz Robye L. Lahlum, W1MK Donor: Bill Feidt, NG3K

USA - 1.8 MHz Thomas M Greenway, K4PI Donor: Jeff Briggs, K1ZM

Europe - 28 MHz GM3X (Opr.: Clive Penna, GM3POI) Donor: Jay Pryor, K4OGG

Europe - 21 MHz Sigurdur Jakobsson, TF3CW Donor: Robert Naumann, W5OV

Europe - 14 MHz CS2C (Opr.: Jiri Pesta, OK1RF) Donor: G3FXB Memorial (Maud Slater) Europe - 7 MHz YT3A (Opr.: Vojislav Kapun, YU7AV) Donor: Ivo Pezer, 9A3A

Europe - 3.5 MHz OL7M (Opr.: Oldrich Linhart, OK1YM) Donor: K3VW Memorial (Frankford Radio Club)

Europe - 1.8 MHz Algirdas Uzdonas, LY7M* Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

Asia – 21 MHz Vakhtang Mumladze, 4L8A Donor: Coconut Wireless Contest Club

Asia – 14 MHz 4X2M (Opr.: Arthur Avrunin, 4X4DZ) Donor: W5FO Memorial (Ralph "Gator" Bowen, N5RZ)

> Asia – 7 MHz Serge Gursky, UNØL Donor: Nodir Tursoon-Zadeh, EY8MM

> > Carib./C.A. (28 MHz) Eric M. Guzman, NP3A Donor: David Hodge, N6AN

Canada (7 MHz) Chris Allingham, VE3FU Donor: John Sluymer, VE3EJ

Japan - 21 MHz Akito Nagi, JA5DQH Donor: Bob Wilson, N6TV

Japan - 14 MHz Syuichi Sato, JA7FTR Donor: Chris Terkla, N1XS

China (28 MHz) Guang Yang, BA8AG Donor: LZ Contest Team

OVERLAY CATEGORIES World – Classic VY2ZM (Op.: Jeffrey T. Briggs, K1ZM) Donor: Pete Smith, N4ZR

> U.S.A. - Classic Peter H Briggs, K3ZM/4 Donor: CWops

World – Rookie Andrei Enoktaev, R4WDX Donor: CWops U.S.A. – Rookie Michael Adams, N1EN Donor: CWops

MULTI-OPERATOR, SINGLE TRANSMITTER World CN2AA (Oprs.: RN2FA, R3FA, RA3ATX, RA3CO, RK3AD, RL3FT, RV3MA, RW3FO, RX3APM, UA2FB, UA2FF, UA3ASZ) Donor: Boring Amateur Radio Club

U.S.A. W1WMU (Oprs.: W5WMU, N5WR, K5GO, N5DX) Donor: Douglas Zwiebel, KR2Q

Africa 5C5T (Oprs.: EA5CP, EA5YU, EA9BLJ)* Donor: Harry Booklan, RA3AUU

Asia P33W (Oprs.: KU1CW RU4HP, RA2FA, UA2FZ, RV1AW, UA4FER, RW4WR, RA3AUU) Donor: Steve Merchant, K6AW

Carib./C.A. 6Y7W (Oprs.: 6Y5WJ, UA8DX, UA9CDC, UN7LZ, UN9LW, BN4WA) Donor: Kansas City DX Club

Europe TM6M (Oprs.: F1AKK, F5MUX, F6ARC, F8DBF, F8FKJ) Donor: Bob Cox, K3EST

Oceania - Pacific Rim AH2R (Oprs.: NH2C, JR7OMD/WI3O, 7N2JZT/NH2KO, JE8KKX/AH2K, JO1RUR/KH0G) Donor: Junichi Tanaka, JH4RHF

South America

LT1F (Oprs.: LU1AEE, LU1FAM, LU1FKR, LU1FJ, LU2FE, LU4FPZ, LU8ADX, LW6DG, OZ1AA) Donor: Araucaria DX Group

Canada VE7GL (Oprs.: VE7GL, VA7OO, VA7AO, VE7HJJ) Donor: Eastern Canadian DX Assn.

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

ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU) 9M2SM (Oprs.: 9M2GET, 9M2ZAK, 9M2OUT, 9M2RDX, 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, PCSA, PA4N, OE2VEL, OE5OHO, DL5SE, DL2JRM, HB9CVQ, LX2A) Donor: Aki Nagi, JA5DQH

MULTI-OPERATOR, MULTI-TRANSMITTER

Motilior and the Morial World D4C (Oprs.: OM7JG, YL3DW, LY2IJ, 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, DAN, ESZIN, ESZIN, ESAID, ESAID, ESAIN, ESJIN, ESZIN, ESSA, ESSAY, ESSTV, ESTGM, LZZCWW, 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/HBØ 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, AI6V

> 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.

WORLD SINGLE OPERATOR	7 MHz OMØM (OM8AW)1,149,531
HIGH POWER ALL BAND	OK1FPS
P40E (P5GA) 13 760 075	552AW
TO7A (UT5UGR)13,765,575 CR3F (CT1BOH)13,667,670	3.5 MHz OM2KI568,550
HD2T (VE3DZ)12,365,973	DR1D (PY2SEX)553,664
TO7A (UT5UGR)13,765,575 CR3E (CT1BOH)13,765,670 HD2T (VE3DZ)12,365,973 BP5A (W2SC)12,265,446 V47T (N2NT)11,381,279	DM7C475,553
28 MHz	1.8 MHz
ZD8X (OH2KI)2,423,123	RD8D (RX9CAZ)174,974 F5UTN135,412
CW5W (CX6VM)2,264,770 FY5KE (F6FVY)2,005,704	DJØMDR126,174 DJ4AX
21 MHz	
CN2R (W7EJ)	SINGLE OPERATOR ASSISTED LOW POWER
5H3EE1,759,140 Z81X (OHØXX/HP1WW)	ALL BAND
1,724,450	P4ØW (W2GD)10,264,320 EF8X (EA8AY)5,426,648 CN2YM (DL3YM)5,160,438
14 MHz	CN2YM (DL3YM)5,160,438 S53F
9Y4W (N6TJ)1,673,010 EA8AH (OH6CS)1,578,309	S53F
CS2C (OK1RF)1,090,073	
7 MHz	28 MHz LO4D (LW9EOC)1,164,670
IG9W (IZ1GAR)1,008,140 YT3A (YU7AV)964,119	ZR9C (ZS6WN)517,914
CE1/K7CA909,150	LU7HF420,515
3.5 MHz	21 MHz GW5R (GW3YDX)1,000,128
NP4A (WP3C)645,970 OL7M (OK1YM)484,053	KE7X418,935
W1MK	E74A413,780
1.8 MHz	14 MHz CE3AA (XQ4CW)730,959
S51V	RA9AP578,858
4L50227,254	OL5W448,572
SINGLE OPERATOR	7 MHz YT2AAA466,990
LOW POWER ALL BAND	HG5D (HA8QZ)426,122 S52W
V26K (AA38)10,261,251 3V8BB (KF5EYY)6,985,521 VP5CW (W5CW)6,032,838 9J3A (S53A)5,181,512 NTUR4,752,231 YN2CC (AJ9C)4,533,288	S52W420,979
VP5CW (W5CW)6,032,838	3.5 MHz
9J3A (S53A)5,181,512 N1UR	LZ2SC
YN2CC (AJ9C)4,533,288	ER3AU114,387
28 MHz	1.8 MHz E74077,868
NP3A	MWØEDX70,231
9XØXA (G3XAQ)839,790 FJ/VA3RA (VE3IKV)567,000	IKØXBX35,856
21 MHz	SINGLE OPERATOR
ZD8W (W6NV)1,839,030	QRP ALL BAND
21 MHz ZD8W (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370	QRP ALL BAND K1TO/42,758,313
ZD8W (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz	QRP ALL BAND K1TO/42,758,313 RW9RN1,377,075 N1IX1,118,597
ZD8W (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz CN8KD	ORP ALL BAND K1TO/42,758,313 RW9RN1,377,075 N1IX1,118,597 HG3M1,035,588 LYSG1,005,800
ZDBW (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz CN8KD721,350	QRP ALL BAND K1TO/4
ZD8W (W6NV)1,839,030 FY5FY	ORP ALL BAND K1TO/4
ZD8W (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz CN8KD513,454 UK80M263,624 7 MHz C6AUM (K4RUM)831,727 HK30471,120	ORP ALL BAND K1TO/4 2,758,313 RW9RN
ZD8W (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz CN8KD	ORP ALL BAND K1TO/4
ZD8W (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz CN8KD	ORP ALL BAND K1T0/4
ZD8W (W6NV)1839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz CN8KD513,454 UK8OM263,624 7 MHz C6AUM (K4RUM)831,727 HK3O471,120 TMØR (F6IRA)443,608 3.5 MHz UN7CW171,735 O24UN131,868	ORP ALL BAND K1T0/4 2,758,313 RW9RN 1,377,075 N11X 1,118,597 HG3M 1,035,588 LY5G 1,005,800 JHOGC 916,150 X300 260,022 KR2Q 232,440 GM3YEH 116,085 V73NS 134,100
ZD8W (W6NV)1,839,030 FY5FY	ORP ALL BAND K1T0/4
ZD8W (W6NV)1,839,030 FY5FY1,455,279 D3AA1,277,370 14 MHz CN8KD	ORP ALL BAND K1TO/4
ZD8W (W6NV)1,839,030 FY5FY	ORP ALL BAND K1TO/42,758,313 RW9RN1377,075 N11X118,597 HG3M1035,588 LV5G0105,800 JH10GC916,150 28 MHz K300260,022 KR20232,440 GM3YEH16,085 21 MHz V73NS16,085 21 MHz V73NS16,085 SP4JFR96,139 14 MHz US5VX60,139 14 MHz US5VX60,139 14 MHz US5VX60,139 14 MHz CO8DM79,976 7 MHz CO8DM77,924 YV5EN64,894 G4DBW64,894 G4DBW64,894 G4DBW64,894 G4DBW64,894 G4DBW62,591 1.8 MHz HA5NB7,439 UT5E05,445
ZD8W (W6NV)1,839,030 FY5FY	ORP ALL BAND K1TO/4
ZD8W (W6NV)1,839,030 FY5FY	ORP ALL BAND K1T0/4

21 MHz DL1EFW179, HA3JB132, VE6BMX128, **7 MHz** YUØW......127, DJ2RG......71, UT4FJ......68, 3.5 MHz 1.8 MHz ES9C30,790, ROOKIE ROOKIE HIGH POWER R4WDX......1,472, JA1ZLO (JE6MDL).....235, KK4EIR.....139, ROOKIE CLASSIC LOW POWER SU9AF (RW3AH)3,313,6 K1BX 1,767,5 K1HT 1,519, UNITED STATES SINGLE OPERATOR HIGH POWER ALLL BAND K1ZZ.....8,782, KQ2M/1.....8,419, 28 MHz 21 MHz N1XS/5 .395 14 MHz N5CR/7.....

DX	CW TOP SCO
914 988 412	7 MHz W3BGN
077 924 721	3.5 MHz W1MK
950 918 124	1.8 MHz K4PI N7GP (N5IA) NØTT
002 064 500	SINGLE OPERAT LOW POWER ALL BAND N1UR4,7 W3EF 4.3
703 850 975	ALL BAND N1UR4, 7, W3EF4, 7, N5AW3, 7 N4TZ/93, 8, NA8V3, 2 K2PO/72, 1
824 021 668	28 MHz N8II
२ 270 800 496	21 MHz KU2M
000 217 416	14 MHz K1EFI/3 WB3CII N9GBB
790 440 548 016	7 MHz K9UIY1 NS3T1 W09S 3.5 MHz NS7K
811 413	NS7K 1.8 MHz KM1R WD8DSB/9
? 325 588 573 848	N2FJ SINGLE OPERATOR A HIGH POWER ALL BAND
976 130	K3WW
450 572 442	K9NW6,4 K1AR6,3 28 MHz WØMM/5
306 420 633	NN4X
376 808 625	W9ILY
875	14 MHz KV2K (K2NG)1,0 K1JB WR2G
558 388	K3EST/6
128 950 712 004	K9RS/3
400 257 954	N6VR/7
959 942 880	LOW POWER ALL BAND KS1
447 318	28 MHz
564 208	NA3M/41 K1ZO1 WB2AA1

INE S	
841,708 737,009 562,028	21 MHz KE7X
455,715 67,973 45,696	14 MHz W3IQ/8 194,434 NW4V 135,904 NM5Y 114,300
45,724 38,464 23,499	7 MHz N4IJ/5
ror R	3.5 MHz W2DX1,325 NJØF814
752,231 365,975 704,276	K2BB6
527,216 200,146 133,314	W2MF11,340 W6AWW1,071 K5QY756
418 761	SINGLE OPERATOR QRP
418,761 335,240 319,009	ALL BAND K1TO/42,758,313 N1IX1,118,597
710 074	N1TM842,080
719,374 356,555 234,580	N7IR805,763 NA4CW721,532 NDØC583,376
43,050	28 MHz K300260,022
6,656	KR2Q
151,740 101,864	21 MHz KØFLY
70,686	AA1CA62,222 KN1H23,214
2,449	14 MHz N3JT/413,924
6,517 1,988	W8NNC8,036 NUØT7,150
250	7 MHz KØOD45,308
SSISTED	N2JNZ
997,254 518,809	3.5 MHz KIØG/57,250
810,750 103,937	K9JWV/72,756
412,477 319,210	1.8 MHz W7DRA36
319,210	K2MIJ24
681,660	SINGLE OPERATOR ASSISTED ORP
681,660 598,970 549,564	ALL BAND NØUR
	NF1R/6
603,801 491,415	N4LA
395,411	NQ2W127,140 28 MHz
022,772 391,960	W4Q0
142,857	21 MHz
647,675 547,950	K5ND
359,100	NN7SS (K6UFO)
248,880 207,834	NW3R (NH7C)240
207,834 126,420	MULTI-OPERATOR SINGLE TRANSMITTER W1WMU12,649,572
24,900 19,912 17,836	K8AZ11,352,484 W1VE10,189,638
17,836	K5TR
SSISTED	AA9A
303,978	TWO-TRANSMITTER K1LZ24,945,250
157,260	KC1XX
952,268 682,570 502,291	KYPCT
196,840 186,048	MULTI-OPERATOR MULTI-TRANSMITTER
176,120	K3LR33,910,848

W3LPL
W2FU26,873,277 WE3C
NR4M21,738,600 NQ4I20,450,116
NQ4120,450,110
ROOKIE HIGH POWER
KK4EIR139,442
AB10C17,372
ROOKIE LOW POWER
N1EN
W411M
CLASSIC
HIGH POWER
K3ZM/4
N2MF3,365,280
CLASSIC
LOW POWER K1BX1,767,558
K1BX
EUROPE SINGLE OPERATOR
SINGLE OPERATOR HIGH POWER
ALL BAND 403A (404A)9,184,560 UA5C7,146,405
OH2BH (OH6K7P) 6 868 246
OHØV (OH6LI)6,777,680
OHØV (OH6LI)6,777,680 OHØZ (OH6EI)6,198,885 M6T (G4BUO)5,803,868
28 MHz GM3X (GM3POI)864,747
II9P (IT9GSF)622,398 LZ4TX537,264
21 MHz TF3CW
TF3CW
GIVIDA (GIVI41AI)
14 MHz CS2C (OK1RF)1,090,073
E73W1,035,408 LN3Z (LA6YEA)910,741
LN3Z (LA6YEA)910,741
7 MHz YT3A (YU7AV)964,119
S51F
5572823,194
3.5 MHz OL7M (OK1YM)484,053
Z35T
1.8 MHz S51V278,964
LY7M149,256
SINGLE OPERATOR LOW POWER
ALL DAND
ALL BAND EA70T
LY6A2,634,530 RA1AL1,850,750
UA2FL1,589,160 LA3S (LA3BO)1,564,765
28 MHz OK1FDR393,432
HGØR (HAØNAR)357,875 DL4AAE
DL4AAE311,360
21 MHz EW6AF224,502
UA3XAO217,065
G4ERW201,788
14 MHz DI 97P
DL9ZP
ER100222,942 SP6ZC
7 MHz
TMØR (F6IRA)443,608
UU6J (UU2CW)313,576 9A9R308,568
3.5 MHz
OZ4UN131,868
OM3ZWA112,612 DL6KWN85,744

1.8 MHz UT6UD67,551	7 MHz G4DBW
US7VF	YO4BEW48,110 SP7BCA45,346
SINGLE OPERATOR ASSISTED HIGH POWER	3.5 MHz SP4GL39,825
ALL BAND	UT3EK
DJ5MW8,609,022 SN7Q (SP7GIQ)8,605,840 UW3U (UT7UJ)8,221,603	1.8 MHz
	HA5NB17,576 RA2FB7,439
E73M	UT5EO5,445
28 MHz G3TXF912,540	SINGLE OPERATOR ASSISTED QRP
OK7K (OK1GK)	ALL BAND RA3AN1,251,720
21 MHz DL1IAO925,080	RT4W1,243,512 DM2M (DK3WE)925,903
OL3Z (OK1HMP)886,044 EA6FO (EA3ALZ)870,506	OK7CM
EAOFU (EA3ALZ)870,506	20 MUz
YT9A	F4BKV
HA7GN	SO6C (SP6CIK)
7 MHz OMØM (OM8AW)1,149,531	21 MHz DL1EFW179,077
OK1FPS	HA3JB132,924 EA5ON
	14 MHz
3.5 MHz OM2KI	YU1LM
DIVI7C473,353	EE3C (EA3KX)48,124
1.8 MHz F5UTN135,412 DJØMDR126,174	7 MHz YUØW127,002
UR5AS107,272	DJ2RG71,064 UT4FJ68,500
SINGLE OPERATOR ASSISTED LOW POWER	3.5 MHz UT3L (UR5LO)64,703
ALL BAND S53F4,421,268	UX5UU
YT8A (YU1EA)3,883,740	
LY3B3,563,937 DL4MCF3,479,490	1.8 MHz HA8BE22,824 HA7I (HA7JTR)22,021
UX4U3,3/8,5/5	UT3N (UT3NK)13,668
28 MHz IØUZF	MULTI-OPERATOR SINGLE TRANSMITTER
UX1AA	TM6M16,420,000 9A1P15,472,217 0M7M14,776,537
21 MHz GW5R (GW3YDX)1,000,128	IR4M14,730,210
E74A413,780 M6W (GØDEZ)354,276	UZ2M14,548,992 E7DX14,147,450
14 MHz	MULTI-OPERATOR
OL5W	TWO-TRANSMITTER LX7I19,956,790 S5ØG14,500,056
IK8TEO256,770	S500
7 MHz YT2AAA466,990	YU5R13,861,358 HG7T13,516,019
HG5D (HA8QZ)426,122 S52W420,979	MULTI-OPERATOR
3.5 MHz	MULTI-TRANSMITTER ES9C
LZ2SC	9A1A28,737,234 DR1A25,407,020
1.8 MHz	ED6A
E74077,868 MWØEDX	DFØHQ20,509,662
IKØXBX35,856	ROOKIE HIGH POWER
SINGLE OPERATOR QRP	R4WDX1,472,450 SQ9KEJ117,055 YP6Z (YO6SZ)61,830
ALL BAND HG3M1,035,588 LY5G1,005,800	
UA7G	ROOKIE LOW POWER
YL2CV	DM3ZM
28 MHz	SQ3PMM135,610
GM3YEH116,085 LZ2RS113,870	CLASSIC HIGH POWER
G4CWH65,604	TM6X (F5VHY)2,755,156 EW2A
21 MHz SP4JFR	RM2U (RU3UR)2,522,690
F5VBT90,248 SP4GFG77,804	CLASSIC LOW POWER
14 MHz US5VX122,332	GI5I (GI4DOH)
US5VX122,332 HA6VV59,976 EI4II 58,410	ED4M (EA4ZK)997,904

FI4II.

.58,410



Operating crew at multi-multi station K3LR.

The European winner was 403A 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 OHØV and Tomi OH6EI at OHØZ. 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/g22osjn>. 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 CQ WW. 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 P4ØW 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!

Second place was a battle from North Africa between Luis EA8AY at EF8X and Andy DL3YM at CN2YM. Luis dealt with wind that broke antennas and then a power outage that took him off the air the last few hours of the contest. Andy was presenting a paper at a symposium in Morocco and used the occasion to borrow the station of CN8VO to do the contest. The antenna farm consisted of a single double Zepp, but it was enough to get some pileups and have fun. The top USA score was by Jim KS1J.

Single Band

There were a number of very competitive finishes among the single band entries. One of the most exciting was on 10 meters where two

2013 WW DX CW TOP SCORES IN MOST ACTIVE ZONES

Zone 3	Zone 14	EW2A2,701,350
K6XX4,419,450	M6T (G4BUO)5,803,868	RM2U (RU3UR)2,519,220
K6NA3,486,366	GD6IA	
*K2PO/72,133,314	(GM3WOJ)5,330,520	Zone 20
VA7ST1,739,496	PA3AAV3,799,338	C4W (5B4WN)6,615,489
KE2VB/71,565,277	*EA7OT3,442,707	*4Z4DX4,026,840
K6NR1,362,822	M3W (G4FAL)2,866,996	*YO2LEA808,704
	OV3X2,800,044	*TA7I766,335
Zone 4		LZØM (LZ2SX)639,975
CJ3T (VE3AT)9,073,944	Zone 15	*YO2CJX586,768
VE3JM7,874,447	4O3A (4O4A)9,184,560	
K5GN7,856,513	OH2BH	Zone 25
W9RE6,834,420	(OH6KZP)6,868,246	JH4UYB5,007,624
VE3BZ5,116,880	OHØV (OH6LI)6,777,680	JR4OZR3,705,630
WXØB/5 (AD5Q)5,074,980	OHØZ (OH6EI)6,198,885	*JH8SLS2,655,030
	HA8JV5,073,894	*JA1BJI2,273,382
Zone 5	LY5R4,988,594	*JI1RXQ1,990,040
NN1N10,652,128		JA7IC1,541,609
VY2TT (K6LA)10,565,610	Zone 16	
KØDQ/110,297,950	UA5C7,146,405	*Low Power
K5ZD/110,050,712	EU1A4,812,060	
K3CR (LZ4AX)9,925,004	RW4W3,399,718	
K1ZZ	RG6G	

WORLD SINGLE OPERATOR ALL BAND

stations broke the all-time record. Jorma OH2KI travelled with three other operators to do single band efforts from Ascension Island in the south Atlantic. Jorma used the call ZD8X on 10 meters and raised the record score by almost 10%. Second place went to Jorge CX6VM operating as CW5W. Laurent F6FVY enjoyed the new antennas from FY5KE, but it was only enough for third place.

It was a three-station race on 15 meters. Jim W7EJ did his usual masterful work from CN2R to finish first. Not far behind was Mike 5H3EE, one of the few active stations from zone 37. Olli OHØXX/HP1XX visited Southern Sudan to put Z81X into third place.

Continuing the theme of travelling Finns, the race on 20 meters was between Jim N6TJ operating from 9Y4W and Jyrki OH6CS visiting EA8AH. By finishing first Jim shows no sign of

CQ WW CW 2013 on Video

II1A: http://youtu.be/siZhghbtpvA LY2W: http://youtu.be/XAa4wZsFWBU HSØZAR: http://youtu.be/AvtL8EksTqE PA6NB: http://youtu.be/IO3rO5ME2LQ TCØA: http://youtu.be/3VoWi05VCNs WR9D tuning 10 meters: http://youtu.be/KICuw_uTsyU WR9D: http://youtu.be/oLY4K3D3oYA JA1YPA: http://youtu.be/qipwMNWVXyw TF3EO: http://youtu.be/qT6ngekH7ww PX1M: http://youtu.be/arCmBJU6NZ8 LU1DZ: http://youtu.be/9LoKZzDk-oA UT3WM: http://youtu.be/U8aSwO9RAfQ VE3LC: http://youtu.be/hSpe1fcqz5M 40 meters: http://youtu.be/wDHcTkOE0TQ TO7A: http://youtu.be/2rDkZokun-8 D70LW:http://youtu.be/-ZZXDPbLbMg

2013 CQ WW DX CW BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

	WORLD SINGLE OPERATOR ALL DAND						USA TOP SINGLE OPERATOR ALL DAND						
Station	160	80	40	20	15	10	Station	160	80	40	20	15	10
P4ØF	66/10/25	464/20/73	1826/28/92	1242/30/98	1670/33/104	2180/29/93	NN1N	53/16/38	348/24/88	1510/35/110	770/37/108	869/33/103	1543/29/115
T07A	35/10/31	481/19/75	1554/33/114	1774/35/113	2107/34/114	1965/30/117	KØDQ/1	50/12/30	453/18/67	1675/29/104	1210/35/103	977/33/101	1175/25/93
CR3E	274/14/49	682/18/68	1527/29/90	1101/35/100	1223/34/102	2155/35/107	K5ZD/1	48/12/29	496/21/79	1291/33/106	1142/33/112	957/34/117	1011/27/104
HD2T	47/6/12	493/23/58	1269/32/84	1092/34/91	1853/33/100	2103/35/113	K3CR	66/14/40	323/22/85	1358/34/119	701/33/101	1140/34/108	1172/30/107
8P5A	323/16/53	626/20/77	1077/28/91	1511/30/97	1515/32/98	2242/28/99	K1ZZ	42/11/31	344/18/83	1331/34/113	672/33/96	785/32/104	1148/30/119
	WORLD SINGLE OPERATOR ASSISTED ALL BAND					USA	SINGLE OF	PERATOR	ASSISTED A	LL BAND			
EF90	48/6/38	208/14/69	1664/37/129	1181/38/125	1114/39/128	1611/37/134	K3WW	76/17/51	325/22/91	1108/32/123	1049/35/116	878/35/123	1050/29/120
EF8U	32/8/31	251/19/79		962/37/127		1805/36/125	N3RS	61/17/50	283/22/102	743/36/134	832/38/138	761/37/145	
A65BP	77/9/29	579/24/89	1098/37/126	917/37/122	693/36/127	1330/35/137	NY3A	72/14/45	241/20/80	845/30/113	780/35/119	750/35/134	834/30/130
*P4ØW	85/14/32	525/21/86	620/31/119	862/35/121	1246/35/124	1326/32/118	AB3CX/2	32/9/20	262/17/73	972/33/119	745/35/108	713/30/113	827/28/114
K3WW	76/17/51	325/22/91	1108/32/123	1049/35/116	878/35/123	1050/29/120	K9NW	48/16/33	222/26/94	525/36/125	453/37/126	755/37/141	707/33/135
	WORLD	MULTI-O	PERATOR	SINGLE TR	ANSMITTE	R		USA I	MULTI-OPE	ERATOR SI	NGLE TRAN	ISMITTER	
CN2AA	520/22/88	1827/34/125	1967/39/148	1710/39/149	2365/40/158	2691/39/161	W1WMU	96/17/63	597/23/103	1520/36/134	986/39/140	947/37/141	862/33/140
P33W	316/19/78	1290/31/117	2539/39/148	2082/40/148	1888/40/157	1911/39/154	K8AZ	52/15/49	207/28/108	1380/36/129	953/38/136	1008/37/146	940/33/137
P3N	397/18/78	1400/34/119	2453/39/146	1940/40/147	1974/40/148	2029/38/149	W1VE	42/11/40	486/23/101	1107/37/130	923/38/129	774/35/135	1130/32/126
TM6M	130/18/79	677/34/119	1894/38/147	1538/38/145	1180/40/151	1722/39/152	K5TR	63/19/49	247/27/98	1349/36/128	523/37/128	872/38/141	845/33/135
9A1P	270/23/91	990/36/128	1913/39/147	1373/39/147	1238/40/152	1341/38/151	K2QMF	43/12/34	176/17/81	1004/33/125	1105/37/128	932/38/139	742/29/123
	WORLD MULTI-OPERATOR TWO TRANSMITTER						USA	MULTI-OF	PERATOR	WO TRANS	MITTER		
CR3L	295/16/62	1195/30/109	2798/36/139	2338/39/148	3164/40/153	3104/38/145	K1LZ	146/18/66	1204/29/116	2187/38/149	1715/40/140	2160/38/153	1817/33/145
P4ØL	352/14/53	1056/27/100	2595/36/126	2117/38/127	3587/38/145	2878/34/142	KC1XX	72/18/60	1137/31/122	2301/39/152	1519/39/138	2298/39/156	1730/33/149
PJ4A	316/14/53	1404/26/105	1917/38/134	2120/38/139	3191/39/148	2037/34/140	N1LN/4	69/16/42	582/26/102	1333/35/133	1380/39/134	1698/37/142	1188/33/139
4LØA	424/17/63	1512/31/109	2941/39/138	1645/39/132	2056/40/144	2029/36/136	K9CT	98/18/49	408/27/99	1327/36/135	1198/40/139	1654/39/148	1273/34/144
TCØA	644/17/64	1761/26/100	2946/39/140	1836/38/136	1868/40/142	1439/35/126	NØNI	80/18/43	474/27/95	1112/36/126	998/37/133	1522/37/135	1017/34/132

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

D4C HK1NA	1109/25/90 712/21/63	2544/38/128	3972/38/145 2971/37/134	5239/40/159 3539/39/147	4577/40/164 3027/40/154	4618/38/170
PJ2T	633/20/64	1371/29/107	3230/36/136	3466/39/140	3445/38/147	2694/34/139
K3LR W3LPL	259/22/74 393/23/83	1259/33/120 1468/32/122	200 110 // 10 /	3000/40/163 2643/40/162	2456/39/157 2586/38/155	

USA MULTI-OPERATOR MULTI-TRANSMITTER

LISA TOP SINGLE OPERATOR ALL BAND

K3LR W3LPL W2FU	259/22/74 393/23/83 389/18/66	1259/33/120 1468/32/122 1263/32/117	2582/37/151	3000/40/163 2643/40/162 2440/38/149	2456/39/157 2586/38/155 2378/39/153	1762/33/152
WE3C NR4M	290/21/78 154/18/52	1200/02/11/	2245/38/147	2303/39/151 1906/38/140	2072/39/153 1918/34/136	1700/33/151

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,

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
403A	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
OHØV	423/12/56	786/19/64	1598/32/108	1073/32/88	1166/33/100	844/31/90
OHØZ	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 9A1P 0M7M	130/18/79 270/23/91 149/20/75	397/32/116	1894/38/147 1913/39/147 2240/38/145	1538/38/145 1373/39/147 1142/39/149	1180/40/151 1238/40/152 1468/40/151	1341/38/151 1153/39/153
IR4M UZ2M	142/20/80 310/24/85	0///0//////	1821/39/145 2081/38/146	1552/39/145 1360/39/147	1512/39/152 1815/40/154	1011/01/11/

EUROPE MULTI-OPERATOR TWO TRANSMITTER

LX7I	633/18/73	1923/34/114	2000/07/10/	1871/37/138	2236/39/145	1070/07/110
S5G	380/17/68	1317/26/105	2011/39/141	1398/39/139		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 9A1A DR1A ED6A	1257/25/94 1442/21/88 1078/21/87 1148/19/79	2434/35/132 2170/33/125 2190/32/124 2113/33/113	3459/39/148 2679/39/148 3575/38/137	2931/39/150 2755/38/150 3048/38/142	2735/40/162 2272/40/153 2021/40/154 2457/38/136	1927/38/152 1860/40/155 1938/34/126
LZ9W	945/19/72	1874/34/121	2935/39/148	2852/39/148	1687/38/143	1601/39/148

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 P4ØL in Aruba and PJ4A in Bonaire. P4ØL got the win and the new South America record. The fourth and fifth place finishers both exceeded the existing score record for Asia, with 4LØA taking the new record over TCØA 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



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

22,000 contacts with 1075 total multipliers to win easily, but it was not enough to break the record. They deserve a lot of credit for station building and operating to achieve such fantastic scores on both modes. Second place went to HK1NA just ahead of nearby competitor PJ2T. Fourth place overall went to K3LR over rival W3LPL. This is the ninth consecutive USA win for K3LR. The team at ES9C took advantage of the conditions to repeat their SSB achievement of top Europe score. They also set a new European record. 9A1A and DR1A could only take solace that such good conditions for Northern Europe don't happen very often.

A number of the multi-operator teams commented on using the live scoreboard at cqcontest.ru to enhance the game by tracking their competition. It's a new twist for competitors to be able to "see" their competition in real-time just like it was a race on a track.

Final Thoughts

Not sending callsigns frequently continues to be a subject of debate for many competitors. The increasing use of the DX Cluster keeps the pileups rolling so there is a misperception that the callsign is known. The station that is running wants to go as fast as possible and manage the pileup by not encouraging new callers. The stations listening need some expectation of how long they should have to wait to hear a callsign—even if only to confirm they are working the station they think they are. Do we need a rule change to balance the needs of both runners and listeners?

As you can see from the results, the level of competition is so high and so close that the final order of finish can only be determined by the log checking. The CQ WW Contest Committee is very serious about this and invests many hours to make sure everyone gets the points they are entitled to. The rules require single band entrants to submit *all* of their contacts made in the contest even on other bands. If they don't do this, stations they work will receive not-in-log penalties for those contacts not submitted. It is important to copy the zones for USA and Russian stations. Many entries lost a lot of points for not copying zones correctly.

Thanks to the members of the CQ WW Contest Committee who helped to process the logs, and to the volunteers who typed in the

2013 CQ WW CW & SSB COMBINED CLUB SCORES

Club	Entries	Points	SLOVENIA CONTEST CLUB			RADIO CLUB VENEZOLANO CARACAS		
			RUSSIAN CONTEST CLUB*	51	108,439,710	R4F-DX-G	.7	3,049,347
United States		540 440 400	SP DX CLUB	98		SOUTHERN OSAKA CONTEST CLUB		3,014,075
YANKEE CLIPPER CONTEST CLUB		549,113,402	URAL CONTEST GROUP LU CONTEST GROUP	39.		SK4DM VASTERBERGSLAGENS SANDAR AMATOR	=H	2 096 926
POTOMAC VALLEY RADIO CLUB		380 639 346	UKRAINIAN CONTEST CLUB	116	85 846 998	SAMARA RADIO CLUB	 8	2 902 026
MINNESOTA WIRELESS ASSN			BLACK SEA CONTEST CLUB			OMSK RADIO CLUB	.9	2.812.410
NORTHERN CALIFORNIA CONTEST CLUB			KAUNAS UNIV, OF TECHNOLOGY RC		73,320,929	ALBERTA CLIPPERS		
NORTH COAST CONTESTERS			HA-DX-CLUB			KOREA CONTEST CLUB		
FLORIDA CONTEST GROUP	82	106,291,710	ORCA DX AND CONTEST CLUB	47	67,212,941	PERM RADIO CLUB	.5	2,466,433
SOCIETY OF MIDWEST CONTESTERS			ARAB CONTEST CLUB			VRHNIKA CONTESTERS	.8	2,290,808
ARIZONA OUTLAWS CONTEST CLUB SOUTHERN CALIFORNIA CONTEST CLUB		83,361,030	LATVIAN CONTEST CLUB CONTEST CLUB SERBIA	38.		PERUGIA CONTEST CLUB	l1	2,244,584
MAD RIVER RADIO CLUB			CUNTEST CLOB SERBIA	10	42 966 660	LA-DX-GROUP SABATOVSKAYA OBLAST RADIO CLUB	.ə 12	2 098 975
SOUTH EAST CONTEST CLUB			LZ CONTEST TEAM			PODOLSK		
CENTRAL TEXAS DX AND CONTEST CLUB			WORLD WIDE YOUNG CONTESTERS*	21		UA2 CONTEST CLUB	.9	2.055.929
WESTERN WASHINGTON DX CLUB		42,705,074	BELOKRANJEC CONTEST CLUB	19		BRISTOL CONTEST GROUP	4	1,965,070
TENNESSEE CONTEST GROUP			VK CONTEST CLUB			CENTO DX TEAM	.7	1,960,850
CAROLINA DX ASSOCIATION			LES NOUVELLES DX			SK0QO SODERTORNS RADIOAMATORER	.6	1,735,102
ALABAMA CONTEST GROUP			BELARUS CONTEST CLUB WEST SERBIA CONTEST CLUB	45.		LOMA DEL TORO CONTEST CLUB		
DFW CONTEST GROUP	51		CHILTERN DX CLUB	15.	28 100 457	NEWBURY AND DISTRICT ARS SERPUKHOV RADIO CLUB	.07	1 672 844
IOWA DX AND CONTEST CLUB			VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB			DOMODEDOVO		
WILLAMETTE VALLEY DX CLUB			SOUTH URAL CONTEST CLUB.			RUSSIAN EXTREME	.5	1.612.351
GEORGIA CONTEST GROUP	16	22,274,173	BOSNIA AND HERZEGOVINA CONTEST CLUB	23.	25,078,205	CDR GROUP	4	1,590,427
GRAND MESA CONTESTERS OF COLORADO		20,590,567	NICOSIA CONTEST GROUP	5	24,564,162	CW OPERATORS CLUB*	.4	1,589,641
CTRI CONTEST GROUP	13	20,236,099	MARITIME CONTEST CLUB			GMDX GROUP	11	1,584,370
LOUISIANA CONTEST CLUB.	15	19,785,584	RADIO CLUB HENARES			CHILEAN PACIFIC DX GROUP	.9	1,563,838
BOZINGA DX AND CONTEST CLUB			THREE A'S CONTEST GROUP CONTEST GROUP DU QUEBEC	9.		KEMEROVO RADIO CLUB STAVROPOL REGION CONTEST CLUB	.5	1,534,051
NORTH TEXAS CONTEST CLUB			CZECH CONTEST CLUB			ADMIRA ARAD		
NIAGARA FRONTIER RADIOSPORT		7.337.598	ARCK*			CENTRAL SIBERIA DX CLUB	.6	1.421.097
UTAH DX ASSOCIATION	23	9,420,666	599 CONTEST CLUB	16		SP CONTEST CLUB	.7	1,381,524
ROCHESTER (NY) DX ASSN	23	9,338,199	LA CONTEST CLUB	19		CHELTENHAM AMATEUR RADIO ASSOCIATION		1,374,771
EAST LANSING DX CLUB	4	7,478,045	SAUDI CONTEST GROUP	5	15,354,034	AMSTERDAM DX CLUB	.4	1,338,857
MADISON DX CLUB			SKY CONTEST CLUB			THE BARBEQUE ENTHUSIASTS ARC	.7	1,198,189
SOUTHWEST OHIO DX ASSOCIATION			RUSSIAN CW CLUB	83		CWJF GROUP	.5	1,168,220
MISSISSIPPI VALLEY DX/CONTEST CLUB KANSAS CITY CONTEST CLUB			CS PETROLUL PLOIESTI YO DX CLUB	ð.	12 005 597	BRACKNELL AMATEUR RADIO CLUB MICHURINSK CONTEST GROUP		
DELARA CONTEST TEAM		4 887 076	WEY VALLEY AMATEUR RADIO GROUP			BASHKORTOSTAN DX CLUB		
SPOKANE DX ASSOCIATION		4.808.778	TORRENT CONTEST CLUB			VLADIMIR CONTEST GROUP	.9	1.071.670
SALT CITY DX ASSOCIATION	4	4,186,974	YB LAND DX CLUB	42	10,002,694	EDIT 14	6	1,054,414
HILLTOP TRANSMITTING ASSN			CE CONTEST GROUP			TANGO FOX RADIO FOXES	.4	1,043,831
KANSAS CITY DX CLUB			YOKOHAMA DX CLUB			NOVOSIBIRSK CONTEST CLUB	.5	1,011,421
BRISTOL (TN/VA) ARC			SIAM DX GROUP.			EUROPEAN PSK CLUB*		
NORTHERN ROCKIES DX ASSOCIATION SOUTHEASTERN DX CLUB			MEDITERRANEO DX CLUB UNIVERSITY OF TOKYO CONTEST CLUB			OBNINSK QRU CLUB CSM CLUJ-NAPOCA		
ALLEGHENY VALLEY RADIO ASSOCIATION	ອ 5	3 117 229	DANISH DX GROUP	0. 21	8 700 040	ORENBURG CONTEST CLUB	.9	831 974
KENTUCKY CONTEST GROUP	8	2.873.953	HAROS RADIO CLUB			MOSCOW RADIO CLUB	10	808,288
TEXAS DX SOCIETY			ALRS ST PETERSBURG	20		KALININGRAD RADIO CLUB		
599 DX ASSOCIATION	8	2,370,502	CATALONIA CONTEST CLUB	4	8,331,853	FERRARA DX TEAM	4	633,564
BERGEN ARA	12	2,167,016	GRIMSBY AMATEUR RADIO SOCIETY			BARIVM DX TEAM		
PADUCAH AMATEUR RADIO ASSOCIATION	4	1,834,088	RIO DX GROUP	47	7,770,816	RTTY CONTESTERS OF JAPAN	.4	532,296
METRO DX CLUB			RIIHIMAEN KOLMOSET	9.		LKK LVIV SHORTWAVE CLUB	.7	524,406
NORTH CAROLINA DX AND CONTEST CLUB. CENTRAL ARIZONA DX ASSOCIATION		1 297 640	RADIO AMATEUR ASSN OF WESTERN GREECE LIPETSK RADIO CLUB	5. 1	7 /10 0/0	PRIMORSKIY RADIOCLUB KRIVBASS		
SKYVIEW RADIO SOCIETY		1 376 983	GUARA DX GROUP			SK2AT FORENINGEN UMEA RADIOAMATORER		
SAN DIEGO DX CLUB			DONBASS CONTEST CLUB			GRUPO DXXE		
WEST PARK RADIOPS		1,097,698	IVANOVO DX CLUB	6	6,732,424	SK6AW HISINGENS RADIOKLUBB		487,086
PORTAGE COUNTY AMATEUR RADIO SERVIO			IRKUTSK RADIO CLUB			TDR		
RADIO CLUB OF REDMOND	4	916,294	RADIO CLUB PARMA			RADIOCLUBUL QSO BANAT TIMISOARA	.6	459,401
PUEBLO WEST AMATEUR RADIO CLUB	4		CSTA BUCURESTI			CLUB DE RADIO EXPERIMENTADORES DE OCCIDE		400 400
FORT WAYNE RADIO CLUB REDWOOD EMPIRE DX ASSOCIATION	b.		Z37M CONTEST TEAM VERENIGING VAN RADIO ZEND AMATEURS	/.		APIAI DX TEAM		
MILFORD OHIO AMATEUR RADIO CLUB	4 Q	678 639	VU CONTEST GROUP		5.817.837	VORONEZH RADIO CLUB	.5	392 360
SOUTHERN CALIFORNIA DX CLUB			NOVOKUZNETSK RADIO CLUB		5.624.329	VOLYN CONTEST GROUP	9	
LOW COUNTRY CONTEST CLUB	4		SHAKHAN CONTEST CLUB	9	5,612,913	SK6QA STENUNGSUND ARC	.4	319,924
LINCOLN AMATEUR RADIO CLUB	4		TALL TREES CONTEST GROUP	5	5,533,183	KKKK CONTEST CLUB KRASNODARSKOGO KRAYA	۱.	
GREAT SOUTH BAY AMATEUR RADIO CLUB.			RU-QRP CLUB	28	5,473,466		.4	228,193
SOUTH JERSEY RADIO ASSOCIATION			UNIO DE RADIOAFECCIONATS DEL VALLES ORIE			ARGE BRAUNAU	.4	219,303
PASADENA RADIO CLUB			GIPANIS CONTEST GROUP			UKRAINIAN CW CLUB RADIOAMATOR		
BRAZOS VALLEY AMATEUR RADIO CLUB	4		LITHUANIAN CONTEST GROUP			CSM TIMISOARA		
DX			ARKTIKA		4,867,916	HOREC RADIO CLUB		
BAVARIAN CONTEST CLUB			SASKATCHEWAN CONTEST CLUB			UR-QRP-CLUB		
RHEIN RUHR DX ASSOCIATION	203	235,374,952	TOP OF EUROPE CONTESTERS	10	4,340,477	ARI BARI	4	101,758
CONTEST CLUB ONTARIO		206,288,182	THRACIAN ROSE CLUB	21	4,237,061	UNIAO SANTAMARIENSE DE RADIOAMADORES	4	80,451
CONTEST CLUB FINLAND	79	165,095,630	ANTWERP CONTEST CLUB	4	4,230,466	DUBNA DX CLUB	.4	37,945
CROATIAN CONTEST CLUB		136,821,482	FALKOPINGS RADIOCLUB			* Olub antes dans antes and " I dans		
ARAUCARIA DX GROUP		120,421,709	SOUTH GERMAN DX GROUP	11.		* Club entry does not meet all rules.		

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>. The expanded results of the 2013 contest are also available on the CQ website at <www.cg-amateur-radio.com).

See you in the next contest!

A Contest Story—EL2DT By Bud Semon, N7CW, and Dickson Tarnue, EL2DT

73, Randy, K5ZD

CQ WW Station Scores Online

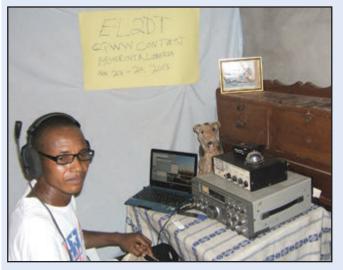
This year's CQ WW results complete CQ magazine's year-long transition to publishing individual station scores ("line scores") on CQ's website only. To access the line scores go to the CQ home page at <www.cqamateur-radio.com> and click on the link under the current issue highlights.—W2VU

Notes

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



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 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