Results of the 2014 CQ WW DX SSB Contest

"Poor low-band conditions with a lot of noise. Fantastic high-band conditions, even with a few flares." – Doug K1DG

BY RANDY THOMPSON*, K5ZD

he 67th edition of the CQ World Wide DX Phone Contest enjoyed another year of great conditions and fun for everyone who turned on a radio. Whether you were chasing a record, a certificate, new countries, or just seeing if you could be heard on the other side of the world, CQWW offered plenty of memorable moments.

We received 8,283 log submissions for the contest. This is down about 200 from last year, but still the second highest ever. With 5,241,570 contacts in the logs received, the log checking software took nearly an hour running in the Amazon EC2 cloud to do all of the cross checking and scoring required to create the

final results. Over 83% of all QSOs reported could be cross-checked against another log. You need no other proof of the communication skills of contesters and DXers than to see that an amazing 97.3% of those contacts successfully cross checked as being good.

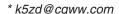
How good was 10 meters? Well, at the peak of the Europe to North America opening each day, the band was filled shoulder to shoulder with stations from 28250 up to 29250 kHz! With room to spread out and escape some of the QRM, DX contacts could be made even by the smallest stations. Over 2 million successful QSOs were recorded just on 10 meters. If only we had a full MHz of room to spread out on the other bands!

Did you notice the bands going completely silent for a few minutes during the contest? There were at least three solar flares during the weekend (several at X-class levels) leading to R2/R3 radio blackouts lasting from a few minutes to a few hours. More than one operator had to go outside and see if the antennas were still up after hearing a completely full band go eerily silent. The flares also increased the aurora and that caused the bands to close a bit earlier than we saw last year. The biggest complaints of poor propagation were from the Western U.S., where the poor polar paths limited the availability of European multipliers.

The high MUF that provided great 10meter conditions also caused higher absorption and lower activity on the low bands. It was slow going on 160 and 75 meters. Even 20 meters was fairly quiet during the daylight hours.

For those chasing DX, the CQ WW is simply the best. There were 223 DXCC entities found in the submitted logs. The rarest were single QSOs with Libva, Nepal, Pakistan, Ethiopia, and Côte d'Ivoire. Some of the fastest growth in contest activity is in Southeast Asia. It wasn't that long ago that China, Indonesia, Thailand, or India was considered a rare multiplier. Now take a look at the number of logs from those countries. It was a treat to have DXpeditions such as VU4KV, 5R8M, TX7G, TOØX, and VK9XSP spend some time in the contest. The most worked countries were Russia (215K), Japan (251K), Germany (310K), and the United States (1.1M). Logbook of the World and the QSL bureaus will be feeling the impact of this weekend for a long time to come.

Many contesters are in it for big rates. How many QSOs can they make in a single hour? Valery, R5GA, takes the public logs and calculates the highest rates over a 60-minute period and displays that information on his website at





A peek inside the operating position at U.S. Multi-Multi winner K3LR. (Courtesy of K3LR)

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2014 WW DX SSB TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BANDS World

8P5A (Op.: Tom Georgens, W2SC) Donor: Southern California DX Club

World – Low Power ZF2DX (Op: Kevin Stockton, N5DX) Donor: Slovenian Contest Club

World – QRP VE3VN (Op: Ron Schwartz VE3VCF Donor: Jeff Steinman, N5TJ

World – Assisted Philippe Lutty, LX7I Donor: Glenn Johnson, WØGJ

World – Assisted Low Power Zlatko Maticic, 9A2EU Donor: Gail Sheehan, K2RED

U.S.A.
Doug Grant, K1DG
Donor: Potomac Valley Radio Club – KC8C Memorial

U.S.A. – Low Power* Greg Chapoton, NA8V Donor: North Coast Contesters

U.S.A. – QRP Anthony Luscre, K8ZT Donor: Pat Collins, N8VW

U.S.A. – Assisted Charles D Fulp Jr, K3WW Donor: John Rodgers, WE3C

U.S.A. – Assisted Low Power Lyle K Ten Pas, WE9R Donor: LA9Z/LN9Z Leia Contest Club

U.S.A. Zone 3
Bob Wolbert, K6XX
Donor: Dave Pruett, K8CC & Greg Surma, K8GL

U.S.A. Zone 4 Michael J. Wetzel, W9RE Donor: Dave Pruett, K8CC & Greg Surma, K8GL

Europe GM5X (Op.: Keith Kerr, GM4YXI) Donor: Potomac Valley Radio Club – W4BVV Memorial

Europe – Low Power El1A (Op.: Olivier Vandenbalck, ON4EI) Donor: Tim Duffy, K3LR

Europe – QRP Mike Bulatov, RT4W Donor: Steve "Sid" Caesar, NH7C

Europe – Assisted UW2M (Op.: Roman Tkachenko, UR0MC)* Donor: Martin Huml, OL5Y

Europe – Assisted Low Power F4VPX (Op.: Filipe Monteiro Lopes, CT1ILT)* Donor: Alex Goncharov, R3ZZ

> Africa Arunas Vaglys, EA8/LY2IJ Donor: Chris Terkla, N1XS

P3F (Op.: Mark Haynes, M0DXR) Donor: Nodir Tursun-Zade, EY8MM

Caribbean/Central America – High Power YN5Z (Op.: Scott Tuthill, K7ZO)* Donor: Alex M. Kasevich, 8R1A

Caribbean/Central America – Low Power VP9I (Op.: Les Peters, N1SV)* Donor: Albert Crespo, NH7A

> Oceania KH6LC (Op.: Jim Neiger, N6TJ) Donor: Barbara Yasson, AC7UH

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South America P4ØW (Op.: John Crovelli, W2GD) Donor: Yankee Clipper Contest Club

Canada
VE2IM (Op.: Yuri Onipko, VE3DZ)
Donor: Contest Club Ontario – VE3WT Memorial

Russia RU9CZD (Op.: Marko Myllymaki, N5ZO) Donor: Roman Thomas, RZ3AA

Japan – High Power Masaki Masa Okano, JH4UYB Donor: Rush Drake, W7RM, Memorial

Japan – Low Power Haruki Ohtsubo, JH9URT Donor: Western Washington DX Club

Southern Cone (CE CX LU) – Low Power Mariano Elichagaray, LU7EC Donor: LU Contest Group

ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU) XW1IC (Op.: Champ Muangamphun, E21EIC) Donor: Bob Kupps, N6BK

ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU) – Low Power

Ralph Browne, HSØZHC Donor: Bob Kupps, N6BK

SINGLE OPERATOR, SINGLE BAND World – 28 MHz ZD8X (Op.: Jorma S. Saloranta, OH2KI) Donor: Joel Chalmers, KG6DX

World – 21 MHz TO2A (Op.: Rich Smith, N6KT) Donor: Robert Naumann, W5OV

World – 14 MHz CW5W (Op.: Jorge Diez, CX6VM) Donor: North Jersey DX Assn. – K2HLB Memorial

World - 7 MHz VY2RX (Op.: Patrick W. Briggs, KK6ZM) Donor: Fred Laun, K3ZO - K7ZZ Memorial

> World – 3.7 MHz Omari Odoshashvili, 4L5O Donor: Fred Capossela, K6SSS

World – 1.8 MHz
OK1W (Op.: Karel Javorka, OK2WM)
Donor: Martin Monsalvo, LU5DX &
Carlos Monsalvo, LU6EBY - LU8DQ Memorial

U.S.A. – 28 MHz Zeljko Repic, K2SSS Donor: Donald Thomas, N6DT

U.S.A. – 21 MHz Daniel Handa, W7WA Donor: 11PM Dayton Pizza Gang

U.S.A. – 14 MHz Victor Walz, N2PP Donor: Yankee Clipper Contest Club – KC1F Memorial

> U.S.A. – 7 MHz W4AAA (Op.: John Bayne KK9A) Donor: Stanley Cohen, W8QDQ

U.S.A. – 3.7 MHz John Lawrence, W1QS Donor: John Rodgers, WE3C

U.S.A. – 1.8 MHz Ronald McClain, W2VO Donor: Glenn Johnson, WØGJ

Europe – 28 MHz GW9T (Op.: Steve Redmond, MWØZZK) Donor: John Rodgers, WE3C Europe – 21 MHz CR6T (Op.: Antonio Rui Sousa Santos, CT1ESV) Donor: Tine Brajnik, S5ØA

> Europe – 14 MHz Vladimir Aksenov, RW1A Donor: Charles Wooten, NF4A

Europe – 7 MHz OK6W (Op.: Pavel Prihoa, OK1MU) Donor: Central Texas DX and Contest Club – NT5C Memorial

> Europe – 3.7 MHz M5B (Op.: lan Pritchard, G3WVG) Donor: Ted Demopoulos, KT1V

> > Europe – 1.8 MHz Algirdas Uzdonas, LY7M* Donor: Robert Kasca, S53R

Caribbean/Central America (28 MHz) YS1/NP3J (Op.: Hirofumi Nakamura, JA6WFM) Donor: Nate Moreschi, N4YDU

Oceania (28 MHz)
VK6NC (Op.: Steve Kennedy VK6SJ)
Donor: Bruce D. Lee, KD6WW

Asia (14 MHz) 4L8A, Vakhtang Mumladze Donor: Dallas/Fort. Worth Contest Group - W5PG Memorial

OVERLAY CATEGORIES

World - Classic Steve Telenius-Lowe, PJ4DX Donor: Pete Smith, N4ZR

U.S.A. – Classic Larry Crim, K4AB Donor: Tom Horton, K5IID

World – Rookie Alberto Varela Lage, EA1IQM Donor: Tim Duffy, K3LR - N8SM Memorial

U.S.A. – Rookie Walter Haumesser, KA4SFD Donor: Tim Duffy, K3LR - K3TUP Memorial

MULTI-OPERATOR, SINGLE-TRANSMITTER
World
CN2AA (Ops: UA3ASZ, RA3CO, R3FA, RX3APM,
UA2FB, UA2FF, RN2FA, RV3MA, RK4FD, RO4F,
RK4FW, RA9USU, R3DCX, R06L, RT4RO, RK3AD,
RW7K, RG6G, RC6U, RK7A, RL3FT)
Donor: So. Calif. DX Club — W6AM Memorial

World – Low Power
IO9Y (Ops: EA4AK, PD1RP, R3XX, HB9OCR, S59M, S57DX, S57UN, S53T, S57XX, S53Z, S50O)
Donor: World Wide Radio Operators Foundation (WWROF)

U.S.A. K1LZ (Ops: K1LZ, K1XM, W1UE, K3JO, SP4Z, K6ND)

Donor: Carolina DX Association

U.S.A. – Low Power NM1C (Ops: NM1C, KB1YJI, KC1AHT, N1REK) Donor: World Wide Radio Operators Foundation (WWROF)

Africa
CN2R (Ops: 3V8SS/KF5EYY, EA8RM, EA9LZ, I4UFH, HB9DUR, W7ZR, W7EJ)*
Donor: Doc Sayre, W7EW

Asia
P33W (Ops: 5B4AIF, LY4AA, LZ3FN, UA4FER, RW4WR, RA3AUU)
Donor: Edward L. Campbell, NX7TT – AA6BB and KA6V Memorial

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Europe

403A (Ops: 403A, 404A, 9A1TT, 9A3A, E77DX, ES2MC, ES2NA, ES5RY, ES5TV, ES7GM, UA3AB, YU1EA, YU1YV, E77W, 409TT, 409IT, 406Z) Donor: Bob Cox, K3EST

Oceania
AH2R (Ops: JI3ERV, JR7OMD, JG3RPL, JH7QXJ, JE8KKX, JA3XOG)

Donor: Junichi Tanaka, JH4RHF

South America PJ2T (Ops: KG2A, W0CG, W3ACO, DK3DM, DL80BQ)

Donor: Victor Burns, KI6IM - The Cuba Libra Contest Club

> Caribbean/Central America VP5DX (Ops: N4KE, N4EPD, NU4Y) Donor: Bob Raymond, WA1Z

JA7ZFN (Ops: JA7AKW, JH7XMO, JP7DFI, JP7DKQ, JR7TEQ)

Donor: Arizona Outlaws Contest Club

ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU) YE2A (Ops.: YB2DX, YB2LSR, YB2TJV, YB2WBF, YC2FAJ)

Donor: Bob Kupps, N6BK

MULTI-OPERATOR, TWO-TRANSMITTERS

CN3A (Ops: IK2QEI, IK2SGC, IZ1LBG, CN8WW, 9A6A, S56A, JK3GAD) Donor: Array Solutions

U.S.A.

U.S.A. K9CT (Ops: KB9OWD, KU5B, K9MU, KB9UWU, K9QQ, K3WA, K9CT, NQ6N) Donor: Kimo Chun, KH7U & Mike Gibson, KH6ND Dan Robbins, KL7Y Memorial

Europe TM6M (Ops: F1AKK, F4DXW, F4FFZ, F5TTU, F8CMF, F8DBF)
Donor: Aki Nagi, JA5DQH

MULTI-OPERATOR, MULTI-TRANSMITTER

HK1NA (Ops: AD4Z, HJ1FAR, HK1R, HK1T, HK1X, HK3TK, HK6F, K1CC, K1MM, K1XX, KM3T, LU8EOT, LU9ESD, LW1DTZ, LW9EOC) Donor: Dave Leeson, W6NL & Barb Leeson, K6BL

U.S.A.
K3LR (Ops: K3LR, DL1QQ, K1AR, K3LA, K3UA, LU7DW, N2IC, N2NT, N2NC, N3GJ, N5UM, W2RQ, W5OV, WM2H)
Donor: Jim Lawson, W2PV Memorial

Europe

EUrope
II9P (Ops: IK8HJC, IT9AUG, IT9BUN, IT9CHU,
IT9CJC, IT9DBF, IT9EQO, IT9GSF, IV3SDE,
IV3TMV, IV3YYK, IZ4DPV, IZ4ZAW, IZ6TSA,
IZ8EPY, IZ8JAI, LY5W, RC0F, VE3LA, W2RE, WW2DX)

Donor: Finnish Amateur Radio League

Oceania

VK9LM (Ops: DB6JG, DF6JC, DF7TH, DJ5IW, DJ7EO, DJ9RR, DL1MGB, DL3DXX, DL5CW, DL5LYM, DL6FBL, DL6MHW, DL8OH, DL8WPX, SP5XVY, VK2IA)

Donor: Tack Kumagai, JE1CKA – JR2GMC and JA9SSY Memorial

CONTEST EXPEDITIONS World Single Operator

TK9R (Op.: Salvatore Farina, IK8UND) Donor: National Capitol DX Association - Stuart Meyer, W2GHK Memorial

World Multi-Op EA6/GM0EGI (Ops: MM0GPZ, GM0RLZ, GM0LIR, GM0EGI, MM0OKG)

Donor: Gail Sheehan, K2RED

*Awarded to second place finisher

Oli, DJ9AO, and Thea, DJ1TH, operating the 40meter position at DF0HQ. (Courtesy of DL5ANT)





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Eddie, AE7AE, worked several hundred QSOs on 10 meters using this mini-beam that is only 12-feet high. (Courtesy of AE7AE)

. His results show that 8P5A made 396 contacts in the very first hour of the contest and TO2A had a best hour with 339 contacts. That is one contact about every 10 seconds. These guys can run.

Single Operator All Bands

The winner of the Single Operator All Bands High Power category was Tom, W2SC, operating from 8P5A in Barbados. Tom may be the first person ever to hold the "grand slam" of single operator titles for ARRL DX Phone, WPX Phone, and CQ WW Phone in the same calendar year. Mark, MØDXR, visited P3F in Cyprus and had to QRT for 45 minutes due to a thunderstorm, survived a lightning strike to one tower, stayed awake for the full 48 hours, and was still able to take second place overall. Yuri, VE3DZ, drove 3,400 kilometers by himself to operate VE2IM and give out the zone 2 multiplier. Six of the top 10 world scores were from North America, two from Asia, and two from Europe. It was unusual not to have a top-level entry from Africa or South America. The top U.S. finisher was Doug, K1DG, operating from his oceanside location in Maine.

The Single Operator Assisted race saw Philippe, LX7I, in Luxembourg just ahead of PX5E in Brazil operated by Sergio, PP5JR. Chas, K3WW, did his usual single operator "distracted" operation to finish first in the U.S., ahead of Randy, K5ZD/1.

The winner of the Single Operator Low Power All Bands category operated portable from the back seat of his car. Kevin, N5DX, recently took a job in the Cayman Islands and wanted to enjoy the DX experience. Not having a station at his home, he carried an all-band vertical to a house near the beach and set up operation from inside his car. Kevin is a tall



Nele, DN3CX, is 8 years old and enjoys the CQ WW Contest. (Courtesy of DL7CX)

guy so sitting in the cramped back seat was a real endurance test. You can read more about it at on his blog at http://zf2dx.com/blog/cqww-ssb-soab-lp/. The European winner was also a portable operation set up just for the contest. Olivier, ON4EI, made his 20th trip to Ireland, with caravan in tow, to operate EI1A. He installs all of the antennas himself and runs the station completely on green energy. Greg, NA8V, was first in the U.S. from his home in Michigan, just ahead of Marv, N5AW, in Texas.

It was a three-way race for the World Single Operator Assisted Low Power category, all from Southern Europe. Zlatko, 9A2EU, finished ahead of Filipe, CT1ILT, at F4VPX. Filipe did achieve his goal of setting a new record for France. In spite of losing an antenna and amplifier due to a lightning strike two days before the contest, Charlie, HA4XH, managed to finish in third place from HA3DX. Lyle, WE9R, was tops from the U.S.

Single Operator Single Band

It certainly comes as no surprise that 10 meters was the most popular single band category with 1,174 entries. The biggest score, with over 5,500 contacts, was by Jorma, OH2KI, operating from ZD8X on Ascension Island. The top Assisted 10-meter entry was from Madeira Island. Helmut, DF7ZS, operated as CQ3L from the island home of DJ6QT. Three Assisted entries managed to work all 40 zones on 10 meters: OM2VL, S5ØK, and DL5L. The top country count was 165 by OM2VL.

Fifteen meters was a runaway with Rich, N6KT, piloting TO2A in Martinique to a healthy lead over fellow Californian Oliver, W6NV, operating as ZD8W. Madeira Island was also the winning spot for 15 meters Assisted with Carlo, IK1HJS, operating from CR3L for the win. None of the single operator 15-meter entries was able to work all 40 zones. Zone 34 was the difficult one. The top country hunter was S57AW with 152.

Despite some difficult and very crowded band conditions, it was 20 meters that offered some of the best competition. There were four different continents in the top five scores. Jorge, CX6VM, used his contest call CW5W to achieve the victory. WRTC2010 champion Vlad, RW1A, used the big antennas of the RU1A club station near Saint Petersburg for second place. One of the antennas was a 12-element Yagi on a 45-meter long boom rising 60 meters in the air. That's

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CQ WW SSB On the Web

SN7D works USA on 21 MHz: https://www.youtube.com/watch?v=SPNvqenJM98

PJ4X multi-operator two-transmitter: https://www.youtube.com/watch?v=3VaN6sM1UMU

YN5Z video tour: http://vimeo.com/78274328

UB7K multi-multi from Crimea: https://www.youtube.com/watch?v=QWNx4mt-wKE

EI1Y: http://youtu.be/8nadqdVV-9w>

CE1TT: https://www.youtube.com/watch?v=VfVTu1U2YIs>

R0AEE: 3G3W">http://youtu.be/LeDkyNPOx10>9M2SE: ">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0<">http://youtu.be/AlIGJh-ajq0</htd>//youtu.be/AlIGJh-ajq0</htd//



Inside the U.S. winning Multi-Single entry of K1LZ. Front row: K1LZ, SP4Z, K6ND.

a big antenna! Andreas, 9Y4W, and Daniel, YV4NN, battled it out for top 20-meter Assisted score with Andreas just a few points ahead.

Forty meters SSB may no longer have international broad-cast stations, but there was no shortage of big signals and QRM packed into 7050 to 7200 kHz. The World high score went to Patrick, KK6ZM, operating as VY2RX from the VY2ZM QTH. Pavel, OK1MU, operated OK6W for the full 48 hours to squeeze into second place. John, KK9A, was bothered by local power line noise on the high bands, so decided to try single-band 40 as W4AAA for the second year in a row. He didn't match his record score from 2013, but he did repeat as the U.S. champion. Luis, CT3DL, had 127 country multipliers and the top Assisted score.

There was no doubt about the winning score on 75 meters with Omari, 4L5O, well ahead of Ian, G3WVG, at M5B. John, W1QS, just got by Jim, K5RX, for the top U.S. score. We almost had a tie on 160 meters with Karel, OK2WM, at OK1W finishing just 524 points ahead of Algirdas, LY7M! Rookie 9A6TKS finished first among the Assisted entrants. No records were in any danger on 75 or 160 meters.

The Low Power single band winners all seemed to set some records. Didier, FY5FY, scored an impressive win on 10 meters and broke the world record set by 9G1BJ back in 1998. Second place finisher Pekka, EA8AH, also broke the old 10-meter standard and now holds the new African record.

After being ill for the week leading up to the contest, Ted, HI3TEJ, improved on his world record for 20 meters Low Power set last year. Efrain, YV5EPM, just got by the 40-meter South American record set last year by YW5T.

QRP

The 342 QRP entries really benefited from the excellent highband conditions and extra room on 10 meters. The World high score was by Ron, VE3VN, who enjoyed a big run on 10 meters Sunday morning. The European race had RT4W over G4CWH. Asia saw JR4DAH edge ahead of JH1OGC. Anthony, K8ZT, and Bill, W6QU (op W8QZA), finished 1-2 for the U.S. OE2S operated by OE2VEL had the highest of all QRP scores to win the QRP Assisted category.

Multi-Operator

CN2AA had a team of 21 operators arrive onsite to begin building a Multi-Unlimited entry. Unfortunately, 1,700 kilograms of cargo and antennas was delayed in shipment. The team decided to enter the Multi-One category and the result was a dominating victory, breaking the world record they set one year ago. A smaller team of just six operators finished second from P33W. A multi-national team of 17 operators drove 4O3A to the top score for Europe. Why so many operators for Multi-One? Because the state-of-the-art calls for multiple in-band stations to search for new QSOs at the same time as the main station is running. The team at K1LZ took the top spot for the U.S. ahead of N4WW and N3RS.

This year saw the introduction of a new Multi-One Low Power category. After a year of planning and 10 days of antenna building, the team at IO9Y on the island of Lampedusa (African Italy), was prepared for a full Multi-Unlimited effort. On October 23, Hurricane Gonzalo passed over Lampedusa. According to HB9OCR, the hurricane "broke down the vertical inverted 'V' on 160 meters, the 4-square on 80 meters, the 4-square on 40 meters, the 3 elements on 40 meters, the 4 elements on 20 meters, two 4-elements on 15 meters, and two 4-elements on 10 meters." A few antennas did survive, but it was a devastating blow. In true contest spirit, the team rallied and decided to enter the new Multi-One Low Power category. The result is a world high score and first record for the category.

The world winner for the Multi-Two category also came from Morocco. The winning team of CN3A, led by Stefano, IK2QEI, and Matteo, IK2SGC, arrived just 48 hours before the contest and managed to erect a new 30-meter-high tower and fill it with antennas before the contest. They made over 13,500 contacts from their growing station in the desert outside of Marrakech. Operating from an equally warm and arid climate, the team at PJ4X finished in second place. TM6M used their location in Western France to capture the top European score. The guys at K9CT in Illinois did a great job to take

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2014 WW DX SSB CONTEST TOP SCORES										
WORLD	3.7 MHz	1.8 MHz	P33W26,183,520	21 MHz	7 MHz					
	DKØP042,340	9A6TKS74,490	CN2R22,573,854	W7WA1,034,778	KØRF320,717					
SINGLE OPERATOR	SP1FPG40,950	SP5LS54,450	PJ2T18,236,898	NW2K717,490	WA3C/857,065					
HIGH POWER	YP7A40,425	OK1T48,843	P4ØS17,255,810	W1WMU483,280	CINCLE OPERATOR ACCIOTER					
ALL BANDS	1.8 MHz	SINGLE OPERATOR ASSISTED	403A17,140,334 EI7M16,361,242		SINGLE OPERATOR ASSISTED LOW POWER					
8P5A (W2SC)14,960,299 P3F (MØDXR)11,969,925	SQ9IAU28,892	LOW POWER	UP2L16,273,125	14 MHz N2PP468,944	ALL BANDS					
VE2IM (VE3DZ)11,725,679	SP5CJY16,530	ALL BANDS	IR4M14,433,804	KD8SQ70,956	WE9R1,772,016					
CG3AT (VE3AT)10,974,080	ER2RM12,954	9A2EU3,028,762	9K2HN14,261,037	AI3Q50,184	W1NT1,646,106					
K1DG9,552,092	SQ5GVY12,397	F4VPX (CT1ILT)2,801,838		-,,	WT1A1,596,716					
4LØA (4L4WW)9,120,703		HA3DX (HA4XH)2,679,880	MULTI-OPERATOR	7 MHz	W3KB1,451,880					
GM5X (GM4YXI)8,748,190	SINGLE OPERATOR QRP	VA3DF2,562,654 UW5Q (UR3QCW)2,511,597	SINGLE TRANSMITTER	W4AAA (KK9A)594,658	N5D01,416,576 WX1S1,402,556					
N1UR7,842,070 TK9R (IK8UND)7,833,672	ALL BANDS	YV8AD1,956,760	LOW POWER 109Y6,526,884	N7AU84,192	VVX101,402,000					
K1ZR7,230,652	VE3VN670,769	RA3Y1,947,060	ED1B3,871,800	AG4W76,532	28 MHz					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RT4W579,405	WE9R1,772,016	PW1A3,785,544	3.7 MHz	W2AW (N2GM)495,456					
28 MHz	G4CWH568,080	G3VA01,694,604	SZ1A1,450,449	W1QS47,886	K1ZO385,112					
ZD8X (OH2KI)2,885,872	JR4DAH546,798	4Z4DX1,685,148	VE2BWL1,404,753	K5RX45,390	K2MFY317,850					
PX2B (PY2LED)2,264,722	JH10GC483,450 CT1BXT382,334	28 MHz	EE9K	W4QNW18,600	21 MHz					
VY2ZM (K1ZM)1,880,592 GW9T (MWØZZK)1,384,452	K8ZT341,620	EA8MT1,495,296	ZR9C1,311,798 NM1C1,271,403	4.0.8811	N9TGR251,378					
TMØT1,350,696	W6QU (W8QZA)338,500	YV1KK1,456,416	W3ZGD1,143,436	1.8 MHz						
	UX2MF338,181	UK9AA865,596	IR8T807,564	W2V02,640 N7GP (N5IA)1,593	14 MHz					
21 MHz	HSØZIA261,324	21 MH-		117 (110171)1,000	N4IJ/5163,404					
TO2A (N6KT)2,695,784		21 MHz YY2CAR995,995	MULTI-OPERATOR	CINCLE ODED ****	7 MHz					
ZD8W (W6NV)1,884,391 CT9/R9DX1,698,220	28 MHz	MW5R (MWØEDX)570,011	TWO-TRANSMITTER CN3A33,760,860	SINGLE OPERATOR Low Power	KC8BNP/96,118					
CR6T (CT1ESV)1,434,752	EA50N472,926 SP5DDJ95,795	YY4IVB429,819	PJ4X25,982,620	ALL BANDS						
ES5RW1,415,313	KØTI85,155		TM6M22,725,804	NA8V2,825,550	SINGLE OPERATOR ASSISTED					
		14 MHz	ED9K20,241,144	N5AW2,724,455	QRP					
14 MHz	21 MHz	IZ8EYP434,853 S520T419,832	KP3Z18,817,157	N4TZ/92,374,768	ALL BANDS W9RPM256,371					
CW5W (CX6VM)1,545,327 RW1A1,488,906	ON4MW104,424	EE3K (EA3GHZ)396,160	ED1R17,517,189	K2P0/71,291,864	W1TW119,196					
4L8A	SP4LVK60,858 YC2LEV49,302	(= 3=)	OL4A17,259,935 A73A14,661,270	N6RV980,271	KU4A76,608					
CS2C (OK4PA)1,264,200	102LLV49,302	7 MHz	IB9T14,166,675	28 MHz	AI4CO20,646					
VB7C (VA7RR)1,208,429	14 MHz	WP3C423,774	AHØBT13,197,699	WA7BNM/6197,284	NØACW11,523					
OE6Z (OE6MBG)1,180,725	CO2IR67,260	OK1UG117,180 USØHZ88,374		N1WRK196,500	28 MHZ					
7 MHz	IZ1ANK61,288	03911200,374	MULTI-OPERATOR	K3SWZ181,102	NØUR15,730					
VY2RX (KK6ZM)899,886	II5E (IZ5ZCO)54,432	3.7 MHz	MULTI-TRANSMITTER		102 011					
OK6W (OK1MU)608,814	7 MHz	EI9HX196,758	HK1NA43,577,430 K3LR31,965,220	21 MHz	14 MHZ					
W4AAA (KK9A)594,658	EA2QU18,216	OK2BXE62,088	II9P23,025,222	W3SM/1145,948 KX2S/3143,344	WB40MM34,680					
TM7G (F4ARU)536,312	IV3UTV10,285	YT2AAA47,448	VK9LM22,678,560	KB1HNZ134,310	K3TW/422,320					
RNØCT443,768	JH1APZ5,206	1.8 MHz	A71C022,349,560	1,511112	MULTI-OPERATOR					
3.7 MHz	3.7 MHz	EU2EU12,502	DFØHQ20,310,745	14 MHz	SINGLE TRANSMITTER					
4L50267,090	SQ8MFB10,045	9A9J (9A7ZZ)11,270	LZ9W19,097,437 WE3C17,468,587	K7KU (KØKR)171,108	HIGH POWER					
M5B (G3WVG)202,570	0L4W7,216	OL6P (OK2PP)7,980	KH7XX17,432,735	N4DL111,752	K1LZ13,771,733					
PA9M171,306	PAØAWH7,178	SINGLE OPERATOR ASSISTED	KL7RA16,779,168	W8GOC44,649	N4WW8,261,172					
YT4A (YT1AA)166,176 OK5D162,640	4 0 8811-	QRP		7 MHz	N3RS7,891,478 NV9L7,127,832					
01000102,040	1.8 MHz HA5NB7,636	ALL BANDS	ROOKIE HIGH POWER	KJ4EX12,958	W1NA6,909,876					
1.8 MHz	9A7ZZ	0E2S (0E2VEL)969,140	VE3CKO789,264 KA4SFD715,518	KR1A (KL7JT)9,027	,000,00					
OK1W (OK2WM)67,640		OH2BV781,140	5Q5R509,640		MULTI-OPERATOR					
LY7M67,116 UT5UGR53,406	SINGLE OPERATOR ASSISTED	BD9XE515,034	IT9DGG349,830	SINGLE OPERATOR	SINGLE TRANSMITTER					
YUØT (YU1WS)51,681	HIGH POWER All Bands	HG6C (HA6IAM)507,224	IZ5YHD247,867	QRP	LOW POWER NM1C1,271,403					
SP3GTS27,520	LX7I10,613,400	XE2JS345,618	ROOKIE LOW POWER	ALL BANDS K8ZT341,620	W3ZGD1,143,436					
	PX5E (PP5JR)10,193,476	OK1K (OK1XOE)315,732 OK7CM302,220	EA1IQM1,212,480	W6QU (W8QZA)338,500	K3RCC548,680					
SINGLE OPERATOR	VY2TT8,906,331	W9RPM256,371	CS7AFP1,025,054	NT4TS235,796	WA1F/4525,708					
LOW POWER	UW2M (URØMC)7,717,842	EA3FF244,244	OH6ECM759,600	KA8SMA233,800	AB1GF516,264					
ALL BANDS	HA8JV7,506,603 K3WW7,426,812		AK4QR565,136	KT8K189,532	MIII TI ODEDATOD					
ZF2DX (N5DX)7,071,729 P4ØW (W2GD)6,615,990	UW7LL6,911,632	28 MHz	EA4GJJ507,928	N1TM184,140	MULTI-OPERATOR					
VP9I (N1SV)4,125,100	C45T6,871,576	5B4ALX754,910	CLASSIC HIGH POWER	28 MHz	TW0-TRANSMITTER K9CT12,064,500					
EI1A (ON4EI)2,988,908	VE3RA6,775,416	JR3RWB183,515 SP5EWX166,136	CLASSIC HIGH POWER PJ4DX6,076,764	KØTI85,155	NR3X/49,824,266					
NA8V2,825,550	K5ZD/16,383,328	IZ8GNR156,860	VE2IM (VE3DZ)5,886,466	WBØIWG25,128	K2LE/17,995,780					
N5AW2,724,455	28 MHz		H2T (5B4XF)4,244,889	04 MU-	KB1H7,793,328					
TC2BC (DL7BC)2,645,764 EA4KD2,410,254	CQ3L (DF7ZS)2,682,977	21 MHz	YT5A (YT3W)3,222,016	21 MHz WFØT1,081	NØNI7,167,849					
N4TZ/92,374,768	KC1XX1,880,013	EA2EA204,600 IK6FWJ154,128	TC7V (M5RIC)3,094,476	K2GMY/6532	MULTI-OPERATOR					
LU7EC2,290,680	LR1E (LW6DG)1,618,672	F1EBN103,939	01 40010 1 011 501155		MULTI-TRANSMITTER					
	OK7K (OK1BN)1,597,407		CLASSIC LOW POWER HA3NU1,749,300	SINGLE OPERATOR ASSISTED	K3LR33,378,413					
28 MHz	21 MHz	14 MHz	YW5T (YV5JBI)1,072,420	HIGH POWER	W3LPL27,194,496					
FY5FY2,257,932 EA8AH1,779,712	CR3L (IK1HJS)1,485,918	IZØFUW35,308 WB40MM34,680	EF80 (DJ10J)1,001,127	ALL BANDS	KC1XX23,568,284 NQ4I12,410,959					
S79K (G4XUM)1,355,025	S57AW1,322,293	K3TW/422,320	KT4ZB888,000	K3WW7,426,812	W4RM11,167,952					
57 511 (d 1715111)1,555,525	9A5Y (9A7DX)1,305,848	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OT8T674,228	K5ZD/16,383,328						
21 MHz	DL2ARD1,301,679	7 MHz		W3UA/16,149,049 AA3B5,987,128	ROOKIE HIGH POWER					
TG9IIN523,530	14 MHz	IZ1POA13,260	UNITED STATES	K1IR (KE1J)5,826,262	KA4SFD715,518 K5MXG196,602					
OK2BXU342,188	9Y4W1,821,968	IZ1DGG10,653 GA1J (MMØBQI)9,328	SINGLE OPERATOR	. , , , , , , , , , , , , , , , , , , ,	ND7J/4173,232					
JF3BFS291,004	YV4NN1,277,862	LZ1DNY9,230	HIGH POWER	28 MHz	KC9WAV151,536					
14 MHz	TM4L (F8ARK)956,743		ALL BANDS K1DG 9.552.092	KC1XX1,880,013	W2AXR71,060					
HI3TEJ1,166,562	EA6URA (EA3AIR)920,931	3.7 MHz	K1DG9,552,092 N1UR7,842,070	N4PN998,200	ROOKIE LOW POWER					
TG9ANF408,382	7 MHz	E74026,271 IZ5M0Q2,310	K1ZR7,230,652	N7DD883,761 21 MHz	AK4QR565,136 AB3TM438,165					
RZ90Q299,250	CT3DL1,246,624	12JIVIUQ	K3CR (LZ4AX)7,222,147	K3EST/6756,056	KK4TXZ405,020					
SP8IMG232,227 YV4AW216,583	EF8S (OH2BYS)885,938	1.8 MHz	W9RE6,632,405	KVØQ442,888	W3VYK294,096					
7 V TAVV210,383	CR2X (OH2BH)745,200	HA7I (HA7JTR)13,608		N5ZC421,544	KK4HEG231,990					
7 MHz	9 7 MU-	MIII TI ODEDATOD	28 MHz K2SSS1,252,520	14 MU-	CLASSIC HIGH POWER					
YV5EPM357,753	3.7 MHz IG9R (IK8HCG)384,808	MULTI-OPERATOR Single transmitter	K2SSS1,252,520 KD4D/31,147,185	14 MHz K6AW136,931	K4AB2,853,325					
RC7KY152,274	EB3CW161,798	HIGH POWER	NA5NN (N5B0)1,097,041	WR2G107,880	K3ZM/42,852,137					
LY80147,132	OK1WCF149,604	CN2AA33,435,840	W3BGN1,063,972	KG9Z/891,392	KØTT1,528,300					

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N2RM1,413,184	UT5UGR53,406	28 MHz	7 MHz	1.8 MHz	MULTI-OPERATOR
K3UL1,164,870	YUØT (YU1WS)51,681	EA50N472,926	CR2X (OH2BH)745,200	EU2EU12,502	TWO-TRANSMITTER
	SINGLE OPERATOR	SP5DDJ95,795	S53A	9A9J (9A7ZZ)11,270	TM6M22,725,804
CLASSIC LOW POWER	LOW POWER	R4FD82,208	OL7Y (OK1BOA)450,891	OL6P (OK2PP)7,980	ED1R17,517,189 OL4A17,259,935
KT4ZB888,000	ALL BANDS	21 MHz	0.7 8411-	SINGLE OPERATOR ASSISTED	IB9T14,166,675
N9TF610,500	EI1A (ON4EI)2,988,908	ON4MW104.424	3.7 MHz EB3CW161,798	QRP	HG7T12,317,184
W1JQ536,500	EA4KD2,410,254	SP4LVK60,858	OK1WCF149,604	ALL BANDS	YU5R10,919,168
K1HT484,275 N9DFD/4473,536	YU1EL1,985,409	I4PZP45,120	ES5TI101,664	OE2S (OE2VEL)969,140	
N9DFD/4473,330	HA3NU1,749,300	SP4GFG44,156	TMØR (F1BLQ)89,462	OH2BV781,140	MULTI-OPERATOR
FUDARE	S09T (SQ90RQ)1,573,536		EA7EU83,160	II3W (I3VFJ)616,590	MULTI-TRANSMITTER
EUROPE		14 MHz	R1DX75,330	HG6C (HA6IAM)507,224	II9P23,025,222
SINGLE OPERATOR	28 MHz	IZ1ANK61,288		OK1K (OK1XOE)315,732	DFØHQ20,310,745
HIGH POWER ALL BANDS	YT6A	II5E (IZ5ZCO)54,432 UR3PGW39,508	1.8 MHz	28 MHz	LZ9W19,097,437
GM5X (GM4YXI)8,748,190	EE7Y (EC7WA)443,468 9A3VM380,970	UN3FGW39,500	9A6TKS74,490	SP5EWX166,136	OT5A16,252,581 SK3W15,008,641
TK9R (IK8UND)7,833,672	MUØGSY370,250	7 MHz	SP5LS54,450	IZ8GNR156,860	3K3W13,006,041
SN7Q (SP7GIQ)6,981,650	WIODGOT70,200	EA2QU18,216	OK1T48,843	MIØLLG78.528	ROOKIE HIGH POWER
LY7Z5,472,727	21 MHz	IV3UTV10.285			5Q5R509,640
OHØV (OH6LI)4,840,800	OK2BXU342,188	10,200	SINGLE OPERATOR ASSISTED	21 MHz	IT9DGG349,830
	EW6AF172,625	3.7 MHz	LOW POWER	EA2EA204,600	IZ5YHD247,867
28 MHz	CT1EVE164,076	SQ8MFB10,045	ALL BANDS	IK6FWJ154,128	F4HIN225,750
GW9T (MWØZZK)1,384,452	E78T160,265	0L4W7,216	9A2EU3,028,762	F1EBN103,939	YU1USA135,892
TMØT1,350,696		PAØAWH7,178	F4VPX (CT1ILT)2,801,838		
M6T (GØAEV)896,100	14 MHz	1.8 MHz	HA3DX (HA4XH)2,679,880	14 MHz	ROOKIE LOW POWER
RL3A (RV1AW)895,112	SP8IMG232,227 UY2UQ147.498	HA5NB7.636	UW5Q (UR3QCW)2,511,597 RA3Y1.947.060	IZØFUW35,308 IK7FPX4.644	EA1IQM1,212,480 CS7AFP1.025.054
	UA1AQA136,875	HAJIVD	NAST1,947,000	IK/FFX4,044	OH6ECM759,600
21 MHz	SQ7NSN133,500	011101 F 00F0 4700 400107F0		7 MHz	EA4GJJ507,928
CR6T (CT1ESV)1,434,752	54.1151.	SINGLE OPERATOR ASSISTED	28 MHz	IZ1POA13,260	ISØDCR370,170
ES5RW1,415,313	7 MHz	HIGH POWER All Bands	IWØHBY789,012	IZ1DGG10,653	
S5ØA1,021,680	RC7KY152,274	LX7I10,613,400	E74A757,770 EE7X690.120	GA1J (MMØBQI)9,328	CLASSIC HIGH POWER
E77A969,789	LY80147,132	UW2M (URØMC)7,717,842	EE77090,120	LZ1DNY9,230	YT5A (YT3W)3,222,016
S51TA940,496	ISØGRB64,080	HA8JV7,506,603			MD2C (MDØCCE)2,226,538
44 8811	3.7 MHz	UW7LL6,911,632	21 MHz	1.8 MHz	LX1N02,157,308
14 MHz RW1A1,488,906					
		EU1A5,989,538	MW5R (MWØEDX)570,011	HA7I (HA7JTR)13,608	YL6W (YL2GD)2,025,518
	DKØP042,340	EU1A5,989,538 TM7F (F6GLH)5,893,728	SX3B (SV1BD0)386,152		OG1M (OH1VR)1,169,304
CS2C (OK4PA)1,264,200	DKØP042,340 SP1FPG40,950			MULTI-OPERATOR	OG1M (OH1VR)1,169,304
CS2C (OK4PA)1,264,200 OE6Z (OE6MBG)1,180,725	DKØP042,340	TM7F (F6GLH)5,893,728	SX3B (SV1BD0)386,152 II5D239,370		OG1M (OH1VR)1,169,304 CLASSIC LOW POWER
CS2C (OK4PA)1,264,200	DKØP042,340 SP1FPG40,950	TM7F (F6GLH)5,893,728 28 MHz OK7K (OK1BN)1,597,407	SX3B (SV1BD0)386,152 II5D239,370	MULTI-OPERATOR Single transmitter	OG1M (OH1VR)1,169,304
CS2C (OK4PA)1,264,200 OE6Z (OE6MBG)1,180,725	DKØPO	28 MHz OK7K (OK1BN)1,597,407 OM2VL1,490,350	\$X3B (\$V1BD0)386,152 II5D239,370 14 MHz IZ8EYP434,853	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER	OG1M (OH1VR)1,169,304 CLASSIC LOW POWER HA3NU1,749,300
CS2C (OK4PA)1,264,200 OE6Z (OE6MBG)1,180,725 GW4BLE	DKØPO	TM7F (F6GLH)5,893,728 28 MHz OK7K (OK1BN)1,597,407	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A 17,140,334 E17M 16,361,242 IR4M 14,433,804	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (0K4PA)	DKØPO	28 MHz OK7K (OK1BN)	\$X3B (\$V1BD0)386,152 II5D239,370 14 MHz IZ8EYP434,853	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (0K4PA)	DKØPO	28 MHz OK7K (OK1BN)	SX3B (SV1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A 17,140,334 E17M 16,361,242 IR4M 14,433,804	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (0K4PA)	DKØPO .42,340 SPIFPG .40,950 YP7A .40,425 1.8 MHz SQ9IAU .28,892 SP5CJY .16,530 ER2RM .12,954 SQ5GVY .12,397	TM7F (F6GLH) 28 MHz OK7K (OK1BN) 1,597,407 OM2VL 1,490,350 S5ØK 1,316,385 21 MHz S57AW 1,322,293	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A 17,140,334 EI7M 16,361,242 IR4M 14,433,804 9A1P 14,161,698 9A7A 13,397,823	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (OK4PA) 1,264,200 OEGZ (OE6MBG)	DKØPO	TM7F (F6GLH) 28 MHz OK7K (OK1BN) 1,597,407 OM2VL 1,490,350 S5ØK 1,316,385 21 MHz S57AW 1,322,293 9A5Y (9A7DX) 1,305,848	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A 17,140,334 EI7M 16,361,242 IR4M 14,433,804 9A1P 14,161,698 9A7A 13,397,823 MULTI-OPERATOR	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (OK4PA) 1,264,200 0E6Z (OE6MBG) 1,180,725 GW4BLE 1,149,294 7 MHz OK6W (OK1MU) 608,814 TM7G (F4ARU) 536,312 9A2L (9A2VJ) 358,791 3.7 MHz M5B (G3WVG) 202,570 PA9M 171,306	DKØPO	TM7F (F6GLH)	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (0K4PA)	DKØPO	TM7F (F6GLH) 28 MHz OK7K (OK1BN) 1,597,407 OM2VL 1,490,350 S5ØK 1,316,385 21 MHz S57AW 1,322,293 9A5Y (9A7DX) 1,305,848	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (OK4PA) 1,264,200 0E6Z (OE6MBG) 1,180,725 GW4BLE 1,149,294 7 MHz OK6W (OK1MU) 608,814 TM7G (F4ARU) 536,312 9A2L (9A2VJ) 358,791 3.7 MHz M5B (G3WVG) 202,570 PA9M 171,306	DKØPO	TM7F (F6GLH) 28 MHz OK7K (OK1BN) 1,597,407 OM2VL 1,490,350 S5ØK 1,316,385 21 MHz S57AW 1,322,293 9A5Y (9A7DX) 1,305,848 DL2ARD 1,301,679 9A5W 1,300,024	\$X3B (\$V1BD0) 386,152 \$15D 239,370 14 MHz \$IZ8EYP 434,853 \$520T 419,832 \$E3K (EA3GHZ) 396,160 7 MHz \$OK1UG 117,180 \$USØHZ 88,374 \$OMØARX 85,833	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A 17,140,334 EI7M 16,361,242 IR4M 14,433,804 9A1P 14,161,698 9A7A 13,397,823 MULTI-OPERATOR SINGLE TRANSMITTER LOW POWER ED1B 3,871,800	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (0K4PA)	DKØPO	TM7F (F6GLH) 5,893,728 28 MHz 1,597,407 OK7K (OK1BN) 1,597,407 OM2VL 1,490,350 S5ØK 1,316,385 21 MHz 1,322,293 9A5Y (9A7DX) 1,305,848 DL2ARD 1,301,679 9A5W 1,300,024 14 MHz	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (OK4PA) 1,264,200 0E6Z (OE6MBG) 1,180,725 GW4BLE 1,149,294 7 MHz OK6W (OK1MU) 608,814 TM7G (F4ARU) 536,312 9A2L (9A2VJ) 358,791 3.7 MHz M5B (G3WVG) 202,570 PA9M 171,306 YT4A (YT1AA) 166,176 OK5D 162,640	DKØPO	TM7F (F6GLH) 28 MHz OK7K (OK1BN) 1,597,407 OM2VL 1,490,350 S5ØK 1,316,385 21 MHz S57AW 1,322,293 9A5Y (9A7DX) 1,305,848 DL2ARD 1,301,679 9A5W 1,300,024	\$X3B (\$V1BD0) 386,152 \$15D 239,370 14 MHz \$IZ8EYP 434,853 \$520T 419,832 \$E3K (EA3GHZ) 396,160 7 MHz \$OK1UG 117,180 \$USØHZ 88,374 \$OMØARX 85,833	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (0K4PA)	DKØPO	TM7F (F6GLH)	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A	OG1M (OH1VŘ)1,169,304 CLASSIC LOW POWER HA3NU
CS2C (0K4PA) 1,264,200 0E6Z (0E6MBG) 1,180,725 GW4BLE 1,149,294 7 MHz OK6W (0K1MU) 608,814 TM7G (F4ARU) 536,312 9A2L (9A2VJ) 358,791 3.7 MHz M5B (G3WVG) 202,570 PA9M 171,306 YT4A (YT1AA) 166,176 OK5D 162,640 1.8 MHz OK1W (0K2WM) 67,640	DKØPO	TM7F (F6GLH) 28 MHz OK7K (OK1BN) 1,597,407 OM2VL 1,490,350 S5ØK 1,316,385 21 MHz S57AW 1,322,293 9A5Y (9A7DX) 1,301,679 9A5W 1,300,024 14 MHz TM4L (F8ARK) 956,743 EAGURA (EA3AIR) 920,931	\$X3B (\$V1BD0)	MULTI-OPERATOR SINGLE TRANSMITTER HIGH POWER 403A 17,140,334 EI7M 16,361,242 IR4M 14,433,804 9A1P 14,161,698 9A7A 13,397,823 MULTI-OPERATOR SINGLE TRANSMITTER LOW POWER ED1B 3,871,800 SZ1A 1,450,449 IR8T 807,564 IR8T 807,564 ERKGS 610,827	OG1M (OH1VR)1,169,304 CLASSIC LOW POWER HA3NU

home the U.S. trophy from the Midwest. They even worked FK8CP on 6 meters during the contest (no, it doesn't count for their score, but is still great DX).

The Multi-Unlimited category has a special allure for those who want to see just what DX is possible on every band in 48 hours. A few years ago, a group started building a station at the farm of Jorge, HK1R. The soil must be very good for growing towers because they now have big antennas on every band and a callsign that everyone recognizes — HK1NA. In spite of complete radio blackouts during the flares, a few short power failures, and loss of their Internet connection for a while, the operators at HK1NA still took first place for the category. Another station with a callsign that is recognized worldwide is K3LR in western Pennsylvania. Tim and his fine crew of guest operators once again were tops in the U.S. for the 10th consecutive year.

Overlay

The second year of the Overlay categories showed increased participation and provided some interesting competition. There were 280 entries in the Rookie Overlay. Licensed less than three years and with many of them less than 20 years old, these are the next generation of contesters to keep an eye on. The Classic category had 716 entries. With its 24-hour time limit, Classic provides a competitive outlet for those juggling other aspects of family or work life.

The world high Rookie score went to Berto, EA1IQM, who was first licensed just a few months before the contest in

August 2014. He was followed closely by Filipe, CS7AFP. Both Berto and Filipe were running low power. On high power, it was Mike, VE3CKO, just ahead of Walter, KA4SFD. Congratulations to all of the Rookie operators that waded into the deep end of the CQWW pool.

The Classic category only counts the first 24 hours of operation for the Overlay score. This allows full time expeditions



Oli, DJ9AO, and Thea, DJ1TH, operating the 40-meter position at DF0HQ. (Courtesy of DL5ANT)

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to compete with those who carefully pick and choose their operating times throughout the weekend. Steve, PJ4DX, earned the top spot by operating just 24 hours. Second place went to Yuri, VE3DZ, operating as VE2IM. Yuri operated most of the first 24 hours on his way to 42 hours of total operation. On low power, Laszlo, HA3NU, put together a winning 24hour score.

The top U.S. Classic High Power score came down to log checking between Larry, K4AB, and Peter, K3ZM/4. Both operated exactly 24 hours sporting very high quality logs with nearly identical score reductions. Peter had 64 more contacts, but it was 14 more multipliers that earned Larry the vic-

KL7RA

37/5/4

184/14/20

1439/32/81

2671/37/134

tory. On Low Power, it was Jere, KT4ZB, with a superb 24hour effort.

Final Thoughts

There continues to be some confusion around the distinction between the Single Operator and Single Operator Assisted categories. If you use the DX Cluster or any other tools to locate stations to work, you are in the Assisted category. We sent out 70 emails asking entrants to confirm their category. Twenty asked us to correct their category to Assisted. The remainder were subject to some intense detective work by the CQ WW Committee and a number of them were dis-

2014 CQ WW DX SSB BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

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

	WORLD SINGLE OPERATOR ALL BAND					USA TOP SINGLE OPERATOR ALL BAND							
Station	160	80	40	20	15	10	Station	160	80	40	20	15	10
8P5A	89/8/16	297/16/46	1113/25/90	2229/35/112		3413/35/113	K1DG	97/11/38	278/15/60	321/20/79	841/37/112		2039/31/116
P3F	66/7/35	291/10/60	1389/18/85	1417/29/ 98		2365/30/ 99	N1UR	43/9/24	454/13/66	389/23/77	767/34/99		1648/28/103
VE2IM	79/5/11	409/14/62	895/27/93	1406/35/113		2092/31/119	K1ZR	7/4/7	307/14/63	379/22/78	576/28/89		2013/28/102
CG3AT	166/8/14	543/17/57	838/25/83	1436/36/108		2126/34/113	K3CR	17/9/10	152/13/47	354/23/78	736/33/102		1981/31/106
K1DG 4LØA	97/11/38 96/5/35	278/15/60 246/ 9/45	321/20/79 1088/29/90	841/37/112 791/26/ 72		2039/31/116 2396/28/ 93	W9RE N9RV/7	27/6/12 12/7/7	130/14/54 97/14/25	523/24/72 805/25/75	796/35/112 622/36/94	1164/36/106	1512/30/110 1054/31/91
GM5X	245/9/46	567/13/67	680/26/89	1482/34/103		2042/32/110	K5TR	23/8/15	59/15/31	638/27/76	341/32/92		1774/32/115
N1UR	43/9/24	454/13/66	389/23/77	767/34/ 99		1648/28/103	K3Z0	2/1/2	108/12/45	334/19/68	481/30/92	677/31/93	
TK9R	79/7/29	604/14/64	623/18/75	1199/26/101		2347/31/115	NR5M	10/6/8	22/10/13	579/26/68	533/31/80	907/34/90	
K1ZR	7/4/7	307/14/63	379/22/78	576/28/89	1155/30/107	2013/28/102	K6XX	7/6/5	39/10/10	691/28/53	187/29/81	698/35/94	719/30/93
WORLD SINGLE OPERATOR ASSISTED ALL BAND					USA SINGLE OPERATOR ASSISTED ALL BAND								
LX7I	244/10/55	565/18/77	835/29/103	1113/35/122		1607/37/137	K3WW	30/10/20	217/17/69	187/24/76	978/36/121		2028/33/126
PX5E	8/6/6	97/13/43	112/27/73	1160/37/115		2742/37/138	K5ZD/1	18/7/13	207/14/61	178/21/70	638/37/127		1433/31/126
VY2TT	25/8/10	301/10/54	479/23/82	1267/35/115		1693/30/124	W3UA/1	22/7/15	210/16/66	339/24/82	573/38/123		1618/31/133
UW2M	87/8/38	188/17/74	978/33/102	623/35/131		2210/38/144	AA3B	22/8/14	192/14/56	233/21/74	436/35/112		1673/31/130
HA8JV K3WW	245/9/50 30/10/20	582/17/69 217/17/69	988/29/97 187/24/76	747/33/112 978/36/121		1667/36/139 2028/33/126	K1IR AB3CX/2	1/1/1 2/2/2	155/15/60 134/14/57	423/24/87 261/25/77	423/38/123 312/35/101		1458/33/125 1754/32/128
UW7LL	130/7/43	454/11/66	1028/25/97	1014/35/126		1470/35/143	N2MM	18/4/10	102/15/54	194/24/79	610/38/124		1212/33/134
C45T	14/5/14	40/8/37	489/23/8	515/30/110		2198/35/136	W1GD	16/6/12	104/13/52	160/18/66	335/36/108		1220/31/128
VE3RA	107/7/6	234/16/54	262/26/83	496/37/116		1596/36/138	N3AD	13/5/7	110/14/49	188/24/76	505/35/109		1050/31/126
K5ZD/1	18/7/13	207/14/61	178/21/70	638/37/127	816/37/128	1433/31/126	KG1E	2/1/2	38/10/23	160/14/63	399/35/106	559/32/105	1534/31/121
	WORLD MULTI-OPERATOR SINGLE TRANSMITTER						USA MULTI-OPERATOR SINGLE TRANSMITTER						
CN2AA	71/15/68	551/24/92	1771/34/117	3092/37/146	3040/39/155	3946/38/163	K1LZ	46/12/39	293/22/89	764/30/100	1211/39/146	1554/39/146	1979/37/152
P33W	211/10/59		1403/35/112	2199/38/145		3862/38/157	N4WW	12/6/11	104/16/67	381/26/87	863/39/134		1780/35/148
CN2R	104/11/47	574/18/78	1245/32/105	1745/38/143	1880/38/143	3962/38/152	N3RS	16/8/14	115/19/68	448/25/87	699/38/129	972/38/135	1627/34/138
PJ2T	37/7/15	226/19/57	1124/28/97	1790/38/128		3616/31/128	NV9L	14/6/11	95/15/51	421/29/90	695/36/131		1505/32/142
P4ØS	21/8/17	238/18/57	1373/29/98	1520/38/129		3330/34/129	W1NA	23/9/21	134/14/65	532/25/90	766/38/135		1217/31/141
403A	163/13/65	517/20/81	1783/36/119	2087/37/148		2781/39/160	K8AZ	17/9/15	76/20/61	232/28/80	491/38/132		1479/34/143
EI7M UP2L	54/11/54 159/9/46	412/16/77 586/13/68	1740/30/106 1387/28/102	1105/36/130 1958/38/142		3668/36/148 1928/36/136	AA9A N2TX	14/6/11 1/1/1	75/14/44 130/13/55	350/28/86 201/23/80	439/38/118 529/39/133		1804/36/145 1688/32/133
IR4M	89/11/63	267/17/79	1132/33/109	2157/36/144		1813/38/153	N1MM	8/4/3	192/13/52	255/24/75	678/38/119		1299/31/126
9K2HN	17/4/12	389/13/63	1312/26/88	1326/35/125		2565/34/122	W3MF	9/4/7	63/12/40	176/21/67	441/31/101		1270/30/125
	WORLI	D MULTI-(PERATOR	TWO TRAI	NSMITTER		USA MULTI-OPERATOR TWO TRANSMITTER						
CN3A	235/13/54	758/18/80	1765/29/105	3131/39/147	2986/39/143	4696/39/162	K9CT	59/8/15	193/21/64	674/29/94	770/38/134	2181/38/142	2252/35/148
PJ4X	124/9/23		1587/28/102	2167/37/127		4219/35/136	NR3X/4	51/10/24	219/19/63	359/26/79	785/37/126		2231/34/139
TM6M	148/11/43	717/18/85	1456/32/111	2296/36/147	3274/39/149	3494/39/157	K2LE/1	33/8/13	201/16/66	478/25/83	761/38/122	864/34/110	2039/34/121
ED9K	41/6/21	498/14/61	914/18/81	2568/36/125		3553/38/133	KB1H	19/7/8	196/19/67	271/24/86	701/38/129		1535/31/132
KP3Z	51/7/17	336/16/61	1629/29/102	2376/39/132		3834/35/132	NØNI	21/10/15	106/16/54	289/27/78	582/38/127		1917/34/148
ED1R	168/12/56	661/18/79	1813/34/115	1740/37/134		2946/38/146	K7RL	10/6/5	136/16/27	809/32/97	784/39/127	1248/37/129	
OL4A A73A	343/11/61 22/7/17	821/19/75 303/16/61	1703/34/116 1162/23/87	2688/38/153 1544/34/127		2105/39/153 2510/38/132	AA1K/3 W2CG	28/5/7 16/7/12	84/14/40 96/11/50	382/25/81 206/23/76	829/37/127 480/35/112		1346/31/123 1260/33/134
IB9T	77/6/46	598/16/71	1189/27/98	2223/37/141		3034/38/149	K2AX	0/0/0	98/14/42	136/21/58	595/36/113		1469/30/127
AHØBT	1/1/1	112/20/37	796/29/78	1227/33/108		3168/34/125	N7AT	12/7/7	66/15/29	449/27/67	372/34/101		1180/31/118
	WORLD	MULTI-0	PERATOR	MULTI-TRA	NSMITTER	₹	USA MULTI-OPERATOR MULTI-TRANSMITTER						
HK1NA	323/15/32	907/23/89	2615/35/120	4323/38/148	4340/38/151	5048/36/145	K3LR	413/15/46	854/26/103	2018/38/137	2753/39/168	3202/30/165	3219/38/171
K3LR	413/15/46	854/26/103	2018/38/137	2753/39/168		3219/38/171	WE3C	83/14/37	415/24/88	859/26/104	1797/39/150		2276/35/146
II9P	640/13/67	1295/20/86	1709/29/101	3011/38/149		4622/39/162	WK1Q	125/11/26	563/20/86	960/26/101	1285/37/134		2062/33/136
VK9LM	17/4/5	213/23/45	1543/31/97	3656/38/153	2927/37/139	2890/31/117	NQ4I	332/12/28	369/21/75	1025/30/105	1859/39/149	1435/38/134	2278/35/147
A71CO	23/5/18	675/21/74	1568/28/99	2300/39/142		3466/38/146	WX3B	13/4/6	186/13/56	542/23/86	1410/37/127	2075/36/123	2561/33/130
DFØHQ	775/11/61	1779/21/89		3010/39/154		1981/39/148	W4RM	40/ 9/25	313/18/72	899/29/101	1119/38/129		1699/31/133
LZ9W	628/10/64	1425/22/87	2546/34/119	3246/37/148		2403/36/144	NK7U	18/ 8/13	203/17/33	716/34/87	946/38/126		1158/31/118
WE3C	83/14/37 60/8/9	415/24/88 335/16/28	859/26/104 1229/35/80	1797/39/150		2276/35/146 3438/34/89	K1KI K4VV	19/ 9/14 36/ 5/ 6	95/15/55 118/12/44	336/26/92 302/17/65	515/39/128 759/35/116		2213/36/148 1229/31/115
KH7XX	37/5/4	184/14/20	1229/35/80	1899/37/125 2671/37/134		3438/34/89 2778/37/130	K4VV WØΔIH/9	36/ 5/ 6 17/ 5/ 5	73/12/44	169/25/75	614/37/116		1622/31/115

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3723/35/127 2778/37/130

WØAIH/9

17/5/5

73/12/32

169/25/75

855/37/132 1622/35/147

614/37/116

qualified. We also found stations self-spotting and transmitting with more than one signal at a time. Band change rules for MS and M2 categories are also very closely checked. Fair play and following the rules make the game and the results much more meaningful for everyone.

We also noticed an increasing trend of stations in ITU Region 1 (Europe and Africa, ed.) transmitting above 7200 kHz. We used the SDR recordings to identify 100 stations that transmitted outside the amateur radio band for their region. Many were single incidents, likely due to hyperactive chasing of DX Cluster spots, but some were found as many as 14 times. We removed these out of band QSOs and issued warnings for this

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
GM5X	245/9/46	567/13/67	680/26/89	1482/34/103	1588/34/107	2042/32/110
TK9R	79/7/29	604/14/64	623/18/75	1199/26/101	1414/32/104	2347/31/115
SN7Q	150/7/40	241/9/49	479/24/79	1092/30/93	1489/35/98	1696/35/99
LY7Z	158/7/39	706/15/66	723/24/93	789/33/110	855/33/109	1174/37/123
OHØV	158/9/41	580/9/57	754/24/78	1030/33/88	1055/32/95	960/31/103
9A4M	124/8/46	483/12/60	745/24/80	647/26/85	441/27/84	1744/36/112
YPØC	148/7/37	560/10/57	1068/17/72	1225/28/85	1219/26/79	1076/23/73
EI6JK	94/7/34	159/11/41	328/15/58	607/20/72	985/26/82	1359/26/97
TM2Y	56/8/28	200/11/55	184/16/66	700/27/86	570/28/92	1023/33/104
YT5A	43/5/32	146/8/47	157/20/55	354/25/62	1010/32/88	1387/30/97

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

LX7I	244/10/55	565/18/77	835/29/103	1113/35/122	1631/39/136	1607/37/137
UW2M	87/8/38	188/17/74	978/33/102	623/35/131	1206/37/124	2210/38/144
HA8JV	245/9/50	582/17/69	988/29/97	747/33/112	863/36/120	1667/36/139
UW7LL	130/7/43	454/11/66	1028/25/97	1014/35/126	1448/36/128	1470/35/143
EU1A	155/6/39	246/12/58	716/29/99	356/31/91	1080/37/116	1787/37/143
TM7F	72/7/32	408/12/54	240/17/66	837/30/99	1250/31/94	1645/35/107
ON4IA	46/4/22	59/11/44	255/23/73	1024/28/98	1196/35/113	1108/31/108
R7AB	16/4/12	180/13/59	596/26/98	841/34/116	798/36/115	1267/34/124
IZ8EPX	48/4/33	229/11/57	363/19/75	464/31/111	623/35/117	1718/37/133
UW1M	21/4/19	100/11/49	255/23/76	497/32/113	959/36/119	1401/35/126

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

403A	163/13/65	517/20/81	1783/36/119	2087/37/148	2220/38/143	2781/39/160
EI7M	54/11/54	412/16/77	1740/30/106	1105/36/130	1900/37/136	3668/36/148
IR4M	89/11/63	267/17/79	1132/33/109	2157/36/144	1904/39/139	1813/38/153
9A1P	102/11/59	626/18/78	1161/32/111	1582/37/145	1637/38/141	2701/38/158
9A7A	110/10/55	575/18/79	1212/31/112	1271/36/144	1593/37/142	2467/38/157
OM7M	184/11/61	252/18/79	1816/34/119	1139/36/137	1287/39/142	2080/39/158
EC2DX	55/11/55	248/15/72	1231/34/108	968/36/134	1528/38/134	2359/39/154
PI4DX	158/13/50	541/19/85	1051/30/112	955/39/140	989/37/133	2328/39/155
OK5W	65/6/45	425/22/83	1475/33/117	890/35/130	1352/38/147	1713/38/153
SJ2W	74/9/48	187/18/77	994/31/106	2886/38/138	1687/37/132	918/35/133

EUROPE MULTI-OPERATOR TWO TRANSMITTER

TM6M	148/11/43	717/18/85	1456/32/111	2296/36/147	3274/39/149	3494/39/157
ED1R	168/12/56	661/18/79	1813/34/115	1740/37/134	2863/37/135	2946/38/146
OL4A	343/11/61	821/19/75	1703/34/116	2688/38/153	1786/38/152	2105/39/153
IB9T	77/6/46	598/16/71	1189/27/98	2223/37/141	2123/38/130	3034/38/149
HG7T	221/8/48	870/17/73	1435/25/104	1475/36/121	1895/38/128	2099/38/156
YU5R	165/8/48	717/14/70	1598/28/104	1512/35/125	2233/38/133	1627/36/133
DL1A	103/7/48	902/13/69	1218/30/103	1238/32/132	1705/37/129	1484/37/133
LZ5R	108/7/36	728/13/72	959/27/95	1594/34/124	2065/38/133	2338/36/141
S52ZW	250/9/53	657/14/67	1137/27/96	1453/36/135	1421/38/131	1721/38/148
DR5N	175/7/45	927/16/76	769/30/106	1056/35/133	1764/38/133	1281/37/139

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

II9P	640/13/67	1295/20/86	1709/29/101	3011/38/149	3381/39/148	4622/39/162
DFØHQ	775/11/61	1779/21/89	2779/34/132	3010/39/154	2010/38/145	1981/39/148
LZ9W	628/10/64	1425/22/87	2546/34/119	3246/37/148	2723/39/141	2403/36/144
OT5A	690/11/57	1373/14/68	2870/31/109	2091/37/140	2300/39/145	1963/36/130
SK3W	448/8/53	882/17/77	1878/35/122	2505/37/147	2326/38/136	1896/38/149
LY7A	388/7/46	1303/13/67	2064/31/111	2524/38/129	1562/38/128	1350/36/122
TM1A	513/9/55	778/14/69	1246/19/87	1992/36/144	1839/37/135	1599/34/131
EA3VN	89/5/25	479/12/61	1165/23/86	2024/35/138	1362/36/118	1184/35/121
DP6T	178/6/47	746/10/63	464/16/80	1567/35/128	1075/36/121	1189/38/129
UW5Y	258/9/46	751/12/67	764/24/92	1281/32/112	887/38/121	1522/36/144

year. Look for harsher penalties if we detect this in the future. See if your logging software can be set to warn you before transmitting outside the band or your license limitations.

The CQ WW Contest, and these results, could not happen without the effort and dedication of the members of the CQ WW Contest Committee. Whether it is typing in paper logs, combing through cluster spots, listening to SDR recordings, mailing certificates, managing servers, editing the website, or helping submit logs to the robot, all of them contribute to the continuing success of the contest. There are more than 700 volunteer hours of work that go on behind the scenes for each mode.

We want to give special recognition to Tzetzo, LZ2FQ, for his creation of the log submission webpage on cqww.com. This page saved everyone time by helping to confirm all log entries were correctly formatted before being submitted into the robot. This webpage is now the recommended method for submitting CQWW log entries.

We look forward to seeing everyone again next year for the CQ WW DX SSB Contest on October 24-25, 2015. Full rules, records, and other information are available on the Web at <www.cqww.com>.



Andrei Pitu, age 9, was the youngest member of the operating team at YR8E.



That's Alex, KU1CW, operator of P40C in the foreground, while John, W2GD, works at the top of the tower. (Courtesy of KU1CW)

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