

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

The 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 10-meter 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 Libya, 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

* k5zd@cqww.com



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

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 Luty, 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, N8V
 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
E11A (Op.: Olivier Vandenback, 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

Asia

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

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, SØA

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.: Ian 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, RO6L, 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

Europe
 4O3A (Ops: 4O3A, 4O4A, 9A1TT, 9A3A, E77DX, ES2MC, ES2NA, ES5RY, ES5TV, ES7GM, UA3AB, YU1EA, YU1YV, E77W, 4O9TT, 4O9IT, 4O6Z)
 Donor: Don Cox, K3EST

Oceania
 AH2R (Ops: JI3ERV, JR7OMD, JG3RPL, JH7QXJ, JE8KX, JA3XOG)
 Donor: Junichi Tanaka, JH4RHF

South America
 PJ2T (Ops: KG2A, W0CG, W3ACO, DK3DM, DL8OBQ)
 Donor: Victor Burns, K16IM – The Cuba Libra Contest Club

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

Japan
 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
 World
 CN3A (Ops: IK2QEI, IK2SGC, IZ1LBG, CN8WW, 9A6A, S56A, K1K3GAD)
 Donor: Array Solutions

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
 World
 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
 I19P (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

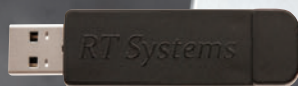
*Oli, DJ9AO, and
 Thea, DJ1TH,
 operating the 40-
 meter position at
 DF0HQ. (Courtesy
 of DL5ANT)*



BE READY FOR THE UNEXPECTED!

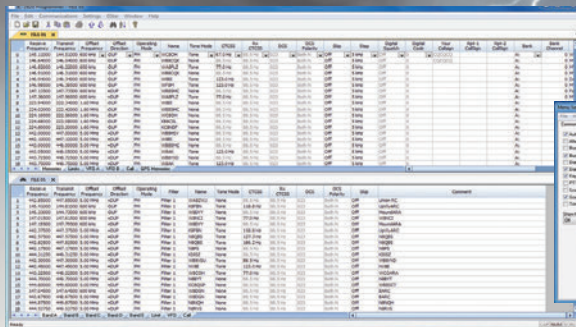
Get on the Air Quickly!
 It's soooooo easy...

**RT SYSTEMS
 RADIO PROGRAMMING
 SOFTWARE* KITS**



192
*187 unique radio
 Programmers... and growing.
 Check for your radio model.*

Easily explore ALL the features of your radio. Options you struggle to set from the face of the radio can be set up and saved in the Programmer. Software* programming kits available for 192 different radio models from many radio manufacturers.



** Each Programmer is
 unique to a specific
 radio... just as your
 radio is unique in itself.*

Available Directly from
 RT Systems or
 Your Local Radio Dealer.

rt SYSTEMS
 RADIO PROGRAMMING MADE EASY

800-476-0719 | www.rtsystems.com
 Personal Assistance Mon.-Fri., 8:00-5:00 Mountain Time

- Set Up All Memory Channel Details
- Easily Change Menu Items
- Read Current Radio Configuration
- Copy and Paste Between Files - Even Files for Different Radios
- No Comport Setup
- Interface Directly to External Data Sources
- Import Data from CSV Files
- Programming and Control USB Cables for Current and Past Radio Models



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

<<http://rate.r5ga.com/>>. 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

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/8nadqVv-9w>>

CE1TT: <<https://www.youtube.com/watch?v=Zaqe3qy7H2Q>>

PA4PS: <<https://www.youtube.com/watch?v=VfVTu1U2YIs>>

R0AEE: <<http://youtu.be/uLPI0E0rkzQ>>

3G3W: <<http://youtu.be/LeDkyNPOx1o>>

9M2SE: <<http://youtu.be/AlIGJh-ajq0>>



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 broadcast 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 high-band 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

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

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 Tzetzto, 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>.

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
OH0V	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
YP0C	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	2627/36/133
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
SS2ZW	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

IJ9P	640/13/67	1295/20/86	1709/29/101	3011/38/149	3381/39/148	4622/39/162
DF0HQ	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



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)