

Results of the 2016 CQ World Wide DX CW Contest

“Improved conditions and more activity”

BY DOUG ZWIEBEL,* KR2Q

After the “worst bands to date” headline for the 2016 SSB contest article, it was with great anticipation that we headed into the CW weekend. Would things be even worse? According to the numbers, CW saw improved conditions and more activity. Whew!

We are taking a departure from the usual contest story this time. If you are looking for the scores, please see the rest of the article (line scores, top scores, table of winners, etc.).

CQWW has always drawn the most activity among international contests. If you look back a decade or so, CQWW included the nickname “**The Contest**.” Yes, CQWW is still “**The**” contest because every year it is **The** place to be for contesters. And CQWW CW in 2016 proved to be yet another fun contest for global participants.

Join the Fun...Even if You're New to Contesting!

If you've never joined in the fun of contesting, you really owe it to yourself to give it a try, even if you only can spend one hour out of the 48 hours available in both October and November. Are you new to CW? No problem. There are lots of guys using code readers/CW decoders to help out. Give it a try...you won't be disappointed. Remember, all you need to copy are the callsign (listen before calling to make sure you've got it), the signal report (virtually always 599, usually abbreviated as 5NN), and the CQ zone number (again, listen and copy it before calling). If you're like most of us, you'll get drawn in and end up putting in more time than you may have planned for.

Here's a hint for those who just want to stick their toe in the water for the first time: Consider skipping the first 24 hours. Things are generally less intense on day two. Or you can try sticking to the higher parts of the usual CW bands (that is, closer to or even above 14.100, 21.100 MHz, etc.).

Concerned about how many hours you might be able to operate? Don't be! *Table 1* shows a breakdown of the number of operators who entered in the Single-Operator, All-Band categories (High and Low power, Assisted and Unassisted). Most entrants put in under 15 hours total. You can figure that might be broken up into three hours in the morning on day one and four hours over the rest of day one (afternoon and/or evening). That leaves two four-hour blocks on day two. Or break it up any way you like. There are lots of guys and gals just waiting to make a QSO and put you in their log.

Please see *Tables 2A* and *2B* for a comparison of activity during the CW weekends in 2015 and 2016. The “QSOs” are



EI5DI operates station SO4O during the 2016 CQWW DX CW Contest.

the total number of QSOs claimed by all received logs. It is clear that the high bands (10 and 15 meters) took a big hit, primarily from reduced sunspot numbers.

Another option for looking at activity trends is to focus on Multi-Multi stations, since they are, in theory, on all bands, all the time. *Tables 3A* and *3B* show the **TOP THREE Multi-Multi Scores Combined** in both 2015 and 2016. Fortunately for the comparison, the top three stations for North America and for Europe were the same in both years.

Declining Sunspot Numbers = Declining Log Numbers (Almost)

As the sunspots continue to decline, the number of logs received has also been in decline. Looking at Phone, from 2013 to 2016, we received 8,482; 8,283; 8,251; and 7,576 logs, respectively. CW has been slightly shifted, going up from 7,442 in 2013 to 7,656 in 2014, then down to 7,535 in 2015.

New for CW in 2016 was a concerted effort, spearheaded by CQWW Contest Committee member Martin, LU5DX, with strong encouragement from the rest of the committee and especially from José, CT1BOH, to go after “missing” logs. For many years, the committee has tried to contact participants who did not send in their logs, asking them to submit one, but until now, it has been a modest effort.

For 2016 CW, Martin created a database of email addresses (using various sources, including past entries) and requested that those who we knew were active in the contest, but didn't submit a log, please do so now. Even if you made just 10 QSOs, you were contacted! It was an amaz-

* c/o CQ magazine

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2016 WWDX CW TROPHY WINNERS AND DONORS

SINGLE OPERATOR

World
ZF2MJ (Opr.: Dan Craig, N6MJ)
Donor: Vibroplex

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

World – QRP
Doug Zweibel, KR2Q
Donor: Bob Evans, K5WA

World Assisted
P4SSC (Opr.: Alex Tkatch, KU1CW)
Donor: Robert McGwier, N4HY

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

World – Assisted QRP
Karel Karmasin, OK2FD
Donor: Steve "Sid" Caesar, NH7C

U.S.A.
Greg Cronin, W1KM
Donor: Frankford Radio Club

U.S.A. – Low Power
K3CR (Opr.: Alex Avramov, LZ4AX)
Donor: North Coast Contesters

U.S.A. – QRP
Frank Letton, W6JTI*
Donor: W3ZZ Memorial (Andy Blank, N2NT)

U.S.A. – Assisted
Randy Thompson, K5ZD/1
Donor: John Rodgers, WE3C

U.S.A. – Assisted Low Power
Ken Low, KE3X
Donor: LA9Z/LN9Z Leia Contest Club

U.S.A. Zone 3
Bob Wolbert, K6XX
Donor: Arizona Outlaws Contest Club

U.S.A. Zone 4
Mike Wetzel, W9RE
Donor: Society of Midwest Contesters

Europe
CR6K (Opr.: Filipe Lopes, CT1ILT)
Donor: W3AU Memorial (Florida Contest Group)

Europe – Low Power
403A (Opr.: Ivo Pezer, 9A3A)
Donor: Tim Duffy, K3LR

Europe – QRP
Goran Krajcar, S52P*
Donor: I4FAF Memorial (Sergio Cartoceti, IK4AUY)

Europe – Assisted
SN7Q (Opr.: Krzysztof Sobon, SP7GIQ)
Donor: I4IND Memorial (IR4X Monte Capra Contest Team)

Europe – Assisted Low Power
MD4K (Opr.: Martin Platt, G4XUM)
Donor: Alex Goncharov, R3ZZ

Africa
CR300 (Opr.: Jose Nunes, CT1BOH)
Donor: K5KA Memorial (Ralph "Gator" Bowen, N5RZ)

Asia
UPØL (Opr.: Vladimir Vinichenko, UN9LW)
Donor: W5PG Memorial (DFW Contesting Group)

Caribbean/Central America
T15W (Opr.: Chris Hurlbut, KL9A)
Donor: W5PG Memorial (DFW Contesting Group)

Caribbean/Central America – Low Power
ZF9CW (Opr.: Stan Stockton, K5GO)*
Donor: Albert Crespo, NH7A

Oceania
ZM1A (Opr.: Jacky Calvo, ZL3CW)
Donor: KH2D Memorial (Ken Hoppe, KH7R and Mani Albrecht, KH2FI)

South America
YW4D (Opr.: Paolo Stradiotto, YV1DIG)
Donor: Dave Farnsworth, WJ2O

South America – Southern Cone (CE, CX, LU) – High Power
CX4AT (Opr.: Daniel Pardias, CX9AU)
Donor: Dale Long, N3BNA

South America – Southern Cone (CE, CX, LU) – Low Power
Roberto Spadavecchia, LW1EUD
Donor: LU Contest Group

ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU) – Low Power
Arwi Hamdi, YC1DPM
Donor: Bob Kupps, N6BK

Scandinavia (LA, OH, OZ, SM)
OHØZ (Opr.: Tomi Ylinen, OH6EI)
Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)

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

Canada
Vladimir Milutinovic, VE3JM
Donor: John Sluymmer, VE3EJ & Jim Roberts, VE7ZO

Russia
Anatoliy Polevik, RC9O
Donor: Roman Thomas, RZ3AA

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

Japan – Low Power
Nobuhiro Iwasa, JH8SL5
Donor: Western Washington DX Club

SINGLE OPERATOR, SINGLE BAND

World – 28 MHz
CW4MAX (Opr.: Marcelo Egues, CX2DK)
Donor: Joel Chalmers, KG6DX

World – 21 MHz
Akito Nagi, JA5DQH
Donor: World Wide Radio Operators Foundation

World – 14 MHz
FY5KE (Opr.: Laurent Haas, F6FVY)
Donor: W2JT Memorial (North Jersey DX Assn.)

World – 7 MHz
A45XR (Opr.: Krzysztof Dabrowski, SP5EXA)
Donor: John Rodgers, WE3C

World – 3.5 MHz
IH9R (Opr.: Emilio Borea, IZ1GAR)
Donor: Fred Capossela, K6SSS

World – 1.8 MHz
Algirdas Uzdonas, LY7M
Donor: Kenneth Byers, Jr., K4TEA

U.S.A. – 28 MHz
Zeljko Repic, K2SSS
Donor: dxcoffee.com

U.S.A. – 21 MHz
Peter Bizlewicz, KU2M
Donor: Bob Naumann, W5OV

U.S.A. – 14 MHz
Ric Morton, WO4O
Donor: Northern Illinois DX Association

U.S.A. – 7 MHz
Dan Handa, W7WA
Donor: Gene Shablygin, W3UA

U.S.A. – 3.5 MHz
Steve Sussman, W3BGN
Donor: Bill Feidt, NG3K

U.S.A. – 1.8 MHz
Ronald McClain, W2VO
Donor: Jeff Briggs, K1ZM

Asia – 14 MHz
UP2L (Opr.: Sergey Podmarkov, RU9I)
Donor: W5FO Memorial (Ralph "Gator" Bowen, N5RZ)

Asia – 7 MHz
Toshimichi Terao, JA6SHL*
Donor: Coconut Wireless Contest Club

Carib./C.A. – 7 MHz
Gil Jaochim, FM5FJ
Donor: David Hodge, N6AN

Canada – 14 MHz
VE7SZ (Opr.: Gary Caldwell, VA7RR)
Donor: John Sluymmer, VE3EJ

Japan – 21 MHz
Haruo Nishiyama, JR2IOB*
Donor: Bob Wilson, N6TV

Japan – 14 MHz
Yukihisa Yamashita, JA6LCL
Donor: Chris Terkla, N1XS

China – 21 MHz
Yong Wang, BD7DX
Donor: LZ9W Contest Team

Europe – 28 MHz
Alexandr Khodyakov, RG3R
Donor: Jay Pryor, K4OGG

Europe – 21 MHz
Todor Todorov, LZ1ND
Donor: Bob Naumann, W5OV

Europe – 14 MHz
OH8X (Opr.: Pasi Luoma-Aho, OH6UM)
Donor: G3FXB Memorial (Maud Slater)

Europe – 7 MHz
YT7A (Opr.: Ivanko Mandic, YU7GM)
Donor: Ivo Pezer, 9A3A

Europe – 3.5 MHz
CS2C (Opr.: Jiri Pesta, OK1RF)
Donor: K3VV Memorial (Frankford Radio Club)

Europe – 1.8 MHz
MZ5B (Opr.: Ian Pritchard, G3WVG)*
Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

OVERLAY CATEGORIES

World – Classic
P49Y (Opr.: Andrew Faber, AE6Y)
Donor: CWops

U.S.A. – Classic
Bob Shohet, KQ2M/1
Donor: CWops

World – Rookie
CR5U (Opr.: Helder Mendes, CS7AJL)
Donor: CWops

U.S.A. – Rookie
Marvin Vinluan, K2MV
Donor: CWops

MULTI-OPERATOR, SINGLE TRANSMITTER

World
CN2AA (Oprs.: RW4PL, RX4W, UA4Z, UA3ASZ, RW3FO, R3GM, RA3CO, R3FA, RV1AW, UA3AB, RN5M)
Donor: KL7RA Memorial (Friends of Rich)

World Low Power
VP5M (Oprs.: K4QPL, AA4NC)
Donor: EA Contest Club

U.S.A.
W3UA/1 (Oprs.: NU3C, W3UA)
Donor: Douglas Zwiebel, KR2Q

U.S.A. – Low Power
W1FM (Oprs.: W1FM, N1SOH)
Donor: CWOps

Africa
EF8R (Oprs.: RQ7M, UA3AKO, UA4WW, UA2FZ, EA8CMX, EA8AH, RA5A, RM5M, RA6LBS, RO4F, UA9PM, UA3RF, RC5A, UA3RC, UA5C, RM9I, EA8RM, EA8KW)*
Donor: Harry Booklan, RA3AUU

Asia
P33W (Oprs.: HA1AG, LY4AA, YO3JR, R4FO, UA4FER, RW4WR, RA3AUU)
Donor: Steve Merchant, K6AW

Caribbean/Central America
KP2M (Oprs.: KT3Y, K9VY)
Donor: Kansas City DX Club

Europe
OM7M (Oprs.: OK2BFN, OM2KI, OM2IB, OM3PA, OM3PC, OM5RM, OM5RW, OM5ZW)
Donor: Gail Sheehan, K2RED

Oceania
AH2R (Oprs.: JI3ERV/NH2C, JR7OMD/WI3O)
Donor: Junichi Tanaka, JH4RHF

South America
LT1F (Oprs.: LU1AEE, LU1FAM, LU1FKR, LU1FT, LU2FE, LU3FL, LU5FF, LW6DG)
Donor: Araucaria DX Group

Canada
VE3EJ (Oprs.: VE3EJ, VE3EK, VE3MM, VE7ZO)
Donor: VE3TA Memorial (John Sluymmer, VE3EJ)

Japan
JR5YCE (Oprs.: JM1UWB, JH5RXS, JJ5GMJ)
Donor: Madison Jones, W5MJ

ASEAN (XZ HS XW XU 3W 9M 9V V8 YB DU)
HS0ZIA (Oprs.: HS1NIV, HS0OAG, HS0ZIA, HS0ZKX,
HS0ZLN)
Donor: Bob Kupps, N6BK

MULTI-OPERATOR, TWO TRANSMITTERS

World
CR3W (Oprs.: DJ0IF, DJ0ZY, DJ2YA, DK7YY, DL1CW,
DL5AXX, DL5CW, DL7UGN, DL8JJ, LZ2JE)
Donor: Array Solutions

U.S.A.
KC1XX (Oprs.: DL8DYL, K1CT, K1TR, KC1XX, W1FV,
KM3T)
Donor: Robert Kasca, S53R

Europe
TK\$SC (Oprs.: S5\$SP, S53WW, S53RM, S53CC, S53F,
S53BB, S53ZO, S57C, S57L, S55OO)
Donor: Aki Nagi, JA5DQH

Japan
JA7ZFN (Oprs.: JG7PSJ, JH7XMO, JI7GBI, JP7DKQ,
JR7TEQ, JR7UOL)
Donor: Coconut Wireless Contest Group

MULTI-OPERATOR, MULTI TRANSMITTER

World
HK1NA (Oprs.: HK1R, HK1T, HK1X, HK1MW, OH0XX,
OZ7AM, OZ1IKY, LU8EOT)
Donor: K2GL Memorial (The K2GL Operators)

U.S.A.
W3LPL (Oprs.: W3LPL, K1DQV, NI1N, K2YWE, K3AJ,
K3IT, K3MM, N3OC, K3RA, W3UR, WR3Z, KD4D, N4QQ,
K4ZA AC6WI)
Donor: W6RJ and N6RJ Memorial (Ham Radio Outlet)

Europe
9A1A (Oprs.: 9A5W, 9A9A, 9A6A, 9A7R, 9A5E, 9A8A,
9A2EU, 9A2AW, 9A6M)
Donor: Finnish Amateur Radio League

Asia
RM9A (Oprs.: RG9A, RZ8A, RA9AA, R9CM, RO9A,
RL9A, RN9A)
Donor: Nodir Tursun-Zade, EY8MM

Oceania
KH6J (Oprs.: N2NL, KH6SH, KH6U, KH7U, KH6FP,
WH7W, WH6R, K5KG, K1XX, K1QX)
Donor: JA9SSY Memorial (Tack Kumagai, JE1CKA &
Masa Sakurada, JR2GMC)

CONTEST EXPEDITIONS

World Single Operator
V47T (Opr.: Andy Blank N2NT)
Donor: Friends of Phil Goetz, N6ZZ

World Multi-Operator
J70BH (Oprs.: OH2B, K1TO, K1LI)
Donor: A16V Memorial (Sue Cook, A16YL)

SPECIAL AWARDS

World SSB/CW Combined
8P5A (Opr.: Tom Georgens, W2SC)
25,734,324
Donor: Hrane Milosevic, YT1AD

World RTTY/SSB/CW Combined
IQ2CJ/D4C/O2X (Opr.: Luca Aliprandi, IK2NCJ)
14,497,538
Donor: Rudy Bakalov, N2WQ

Combined SSB/CW Score 160 Meters
Algirdas Uzdonas, LY7M
250,636
Donor: Team IB9T/IR9Y - IT9ZGY Memorial

CLUB

USA SSB/CW
Frankford Radio Club
244,651,001
Donor: Northern California Contest Club

DX SSB/CW
BAVARIAN CONTEST CLUB
212,674,217
Donor: John Rodgers, WE3C

*Second place



Contest station A44A was manned by the following: Standing left to right were: Mohib, A41JZ; Hamed, A41KT; Paul, A45VB (G7SLP); Prasad, A45VA (VU2PTT); and Pai, A45VI (VU2PAI). Names for the rest of the crew were not available as of press time.

ing experience, with over 1,000 additional logs being submitted compared to what was received by the usual CW deadline. This greatly enhanced the committee's ability to do more cross-checks. In the end, for 2016, we ended up with 8,341 received CW logs, a new record. Without this effort, the "decline in logs received based on the SSN" would have continued. And despite the

large number of "extra" CW logs, the total number of QSOs are still way down. You still can't fight ol' Sol.

Keeping 'em Honest

We would also like to acknowledge those members of the contest community who wrote to us to identify suspect operations. These included "multiplier is too high" and "he was out of the

Operating Hours	number of logs	% of all	cumulative %
0 - 5	932	19.4%	19.4%
5.1 - 10	1077	22.4%	41.8%
10.1 - 15	801	16.7%	58.5%
15.1 - 20	635	13.2%	71.8%
20.1 - 25	529	11.0%	82.8%
25.1 - 30	311	6.5%	89.3%
30.1 - 35	209	4.4%	93.6%
35.1 - 40	141	2.9%	96.5%
41	24	0.5%	97.0%
42	19	0.4%	97.4%
43	29	0.6%	98.0%
44	23	0.5%	98.5%
45	18	0.4%	98.9%
46	16	0.3%	99.2%
47	9	0.2%	99.4%
48	28	0.6%	100.0%
Sum	4801	100.0%	

Table 1. Time on-air for all single-op, all-band entrants in the 2016 CQ WW DX Contest

2016 CQWW DX CW TOP SCORES

WORLD SINGLE OPERATOR HIGH POWER All Band	28 MHz KH6KG5,066	7 MHz A61EK625,542 9A5Y (9A3LG)552,606 EA7OT415,470	PJ2T28,344,764 9A1A18,308,318 RM9A17,857,131 KH6J14,455,932 W3LPL14,235,216 LZ9W13,976,736 M6T13,299,162 K3LR13,061,930 WE3C12,760,200	28 MHz KN4Y5,148 K4XL2,730	14 MHz W4/CX1EK4,750 WB0RUR/53,042
ZF2MJ (N6MJ)14,214,690 T5W (KL9A)13,492,934 CR300 (CT1BOH)13,339,159 8P5A (W2SC)11,559,778 V47T (N2NT)11,440,301 9Y4/V3EY9,291,134 F8U (OZ1AA)9,227,431 NP4DX (VE3DZ)8,983,296 CR6K (CT1ILT)8,278,452 YW4D (YV1DIG)8,237,310	21 MHz LZ2RS45,505 HG3C (HA3HX)34,398 R9RA33,930	3.5 MHz FY5FY386,232 4M1K (YV1KK)283,161 SP4DZT166,375	21 MHz WB4TDH130,801 N5OE60,489 K5KJ58,479	21 MHz W4CX1EK4,750 WB0RUR/53,042	14 MHz W9XT209,890 N4U/5170,667 WB2AA127,625
	14 MHz GJ2A (M0ASP)207,616 EA8EW (OH1MA)172,935 US5VX59,730	1.8 MHz HG0R (HA0NAR)89,184 8S0DX (SM0DSG)80,896 OK2W (OK2WM)61,285	ROOKIE High Power M0VSE102,564 IU4CHE55,944 DK5KK26,376	14 MHz W2TZ180,653 N2GM124,875 W2MMD (WK2G)101,280	7 MHz W9PA91,750 N8ET21,655 W6AWW14,430
	7 MHz 4M5EN (YV5EN)82,808 G4CWH64,410 E77T59,976		Low Power CR5U (CS7AJL)1,119,509 A61EK625,542 BH6KOK187,680 IU4FUJ95,931 LZ7M (LZ2ESM)87,300 K2MV84,111 SP5JP58,320 UT3UHF54,234 9A6TT52,026 BG6SDZ37,760	7 MHz WA1FCN/463,856 K4SXT39,809 N3GD/430,260	3.5 MHz W8JGU10,962 AA5AM4,465
28 MHz CW4MAX (CX2DK)316,050 LU7HN120,814 K2SSS23,530	3.5 MHz GM3YEH31,222 HG5O (HA5OB)24,304 DL2TM20,349	ASSISTED QRP All Band OK2FD1,288,066 DM2M (DK3WE)1,094,688 ON6NL845,910 RT4W757,059 HI3Y522,060 I28JFL/1505,809 RZ3QS357,408 R3WR295,095 RD9D218,622 K8ZT215,166	CLASSIC High Power P49Y (A6Y)4,706,670 C4W (5B4WN)3,322,888 VP2ESM (OH1VR)2,975,533 S53A2,885,832 K02M/12,861,742 HG3R (HA3NU)2,482,377 3B9HA (G0CKV)2,285,189 N2MF2,203,369 TM6X (F5VHY)2,109,057 GW5R (GW3YDX)2,070,392	3.5 MHz WD8DSB/91,656	1.8 MHz W7RH2,916 NT2DR/51,610
21 MHz JA5DQH353,338 KU2M338,240 LZ1ND226,588	1.8 MHz S53AR14,256 UA3DJG9,400 HA1TI9,024	28 MHz LT7H (LU7HZ)29,026 N0UR1,550	Low Power UA9BA2,553,300 EA8CN1,432,572 I04T (IK4VET)1,227,400 N8II966,240 N9NB/4901,680 V73NS721,510 N1IX636,398 US0HZ631,440 CT3KN623,712 R9AX606,515	1.8 MHz W8JGU10,962 AA5AM4,465	ASSISTED QRP 28 MHz K8ZT215,166 N9SE213,268 N2CQ99,532 KU1N70,574 NK5G30,870
	ASSISTED HIGH POWER All Band P40C (KU1CW)8,635,842 LP1H (LU5DX)8,173,396 6Y9X (K1XM)7,285,552 HI3CC (NP4Z)6,567,424 K5ZD/16,104,340 SN7Q (SP7GIQ)6,000,995 K1ZZ5,466,065 CU4DX (I28JAI)5,437,648 K0DQ/1 (@K8P)5,402,736 UB7K5,269,968	21 MHz HG3IPA (HA3JB)34,594 R4FD24,726 YB2ERL23,785		QRP All Band KR2Q633,420 W6JTI259,316 K8CN/1244,736 W6QU (W8QZA)138,400 K2YGM118,300	ASSISTED QRP 28 MHz K8ZT215,166 N9SE213,268 N2CQ99,532 KU1N70,574 NK5G30,870
	28 MHz N6SS/724,150 N4MM13,035 JA7OWD9,724	14 MHz YR8E (Y08RHM)99,214 UX9Q53,350 UT3EK52,320		21 MHz K0FLY20,376 WA6FGV11,826	28 MHz N0UR1,550
7 MHz A45XR (SP5EXA)877,400 Y77A (YU7GM)792,456 VK2DX761,608		7 MHz S51DX117,810 YU0W101,118 DL1EFW91,560		14 MHz W9YA/51,408	21 MHz NE6M5,181
3.5 MHz IH9R (IZ1GAR)734,712 UN4L670,196 CS2C (OK1RF)634,185				7 MHz NA2AA52,155 W09S4,095 N2JNZ1,820	14 MHz KA7T21,148 K2AL9,234 K2GM/65,712
		3.5 MHz OL4W (OK1IF)96,180 DJ7WW69,979 UT3L (UR5LO)61,541	LOW POWER W1KM5,575,966 N5DX/2 (@N2QV)5,247,528 K1DG5,128,619 AA1K/33,746,625 N1UR3,426,980	14 MHz W9YA/51,408	3.5 MHz K3TW/45,382 K1SX3,392
		1.8 MHz HA3MY33,930 S51V24,960 HA5NB18,232	UNITED STATES SINGLE OPERATOR HIGH POWER All Band W1KM5,575,966 N5DX/2 (@N2QV)5,247,528 K1DG5,128,619 AA1K/33,746,625 N1UR3,426,980	7 MHz K5RX1,700	ASSISTED HIGH POWER All Band K5ZD/16,104,340 K1ZZ5,466,065 K0DQ/1 (@K8P)5,402,736 K3WW4,865,553 N3RS4,762,989
1.8 MHz LY7M168,950 M25B (G3WVG)150,689 MW0UNN133,344	28 MHz N6SS/724,150 N4MM13,035 JA7OWD9,724	1.8 MHz HA3MY33,930 S51V24,960 HA5NB18,232		ASSISTED HIGH POWER All Band K5ZD/16,104,340 K1ZZ5,466,065 K0DQ/1 (@K8P)5,402,736 K3WW4,865,553 N3RS4,762,989	28 MHz N6SS/724,150 N4MM13,035 W3IP/45,754
LOW POWER All Band V26K (AA3B)9,996,336 3V8SS (KF5EY)5,738,520 ZF9CW (K5G0)5,393,080 4X0W (W1UE)4,971,096 403A (9A3A/E73A)3,777,960 R8CT3,457,300 HR2J (AJ9C)3,371,732 S50A3,333,915 5H3EE2,791,587 UA9BA2,553,300		MULTI-OP SINGLE TRANSMITTER High Power CN2AA28,390,504 EF8R26,719,508 ED8X25,470,336 P33W23,961,540 KP2M14,563,500 OM7M11,702,700 IR4M11,554,224 OM8A10,736,960 TM6M10,530,185 9A1P10,273,445	28 MHz K2SSS23,530 K7BG1,775		Low Power VP5M5,257,608 CT9/R7KW5,254,841 PT4T4,754,376 EF3T4,280,214 UW5Y3,048,948 IQ3RK2,881,440 E77CFG2,449,766 IR6T2,277,925 VCTX2,037,156 UW3E1,930,082
			21 MHz KU2M338,240 W6YA207,441 K8GU/3195,321	21 MHz N4BP300,614 W6SZN/750,940 K5QR35,964	21 MHz N4BP300,614 W6SZN/750,940 K5QR35,964
7 MHz SU9JG (EA7TN)430,128 CT3KN396,984 YV4YC255,036	21 MHz OK6W (OK1MU)598,752 R8TT576,216 OM0M (OM8AW)575,040			14 MHz W1WMM514,332 KV0Q448,748 N7DD352,128	21 MHz N8II966,240 N9NB/4901,680 V73NS721,510 N1IX636,398 US0HZ631,440 CT3KN623,712 R9AX606,515
3.5 MHz OP7EH (ON7EH)176,907 EA6SX167,055 LY2BMX113,739	1.8 MHz RY9C (UA8DX)227,957 RD8D (RX9CAZ)225,318 UD4F202,530			7 MHz K9M/4220,647 W2TA/4121,064 WA3C/8109,900	7 MHz W7WU12,096 AG4W7,900 N0TT2,720
	ASSISTED LOW POWER All Band P40W (W2GD)8,080,330 MD4K (G4XUM)3,688,783 VP5CW (W5CW)3,582,846 UZ3A (UX1AA)3,419,618 LZ8E (LZ2BE)3,400,000 DF9ZP (DK8ZB)3,078,734 UA4W2,745,975 KE3X (@N3HBX)2,721,004 W1NT2,531,528 OR2F (ON8LDS)2,333,829	LOW POWER VP5M5,257,608 CT9/R7KW5,254,841 PT4T4,754,376 EF3T4,280,214 UW5Y3,048,948 IQ3RK2,881,440 E77CFG2,449,766 IR6T2,277,925 VCTX2,037,156 UW3E1,930,082		7 MHz W7WU12,096 AG4W7,900 N0TT2,720	3.5 MHz W3NO82,716 K2AV/456,050 K2RR/150,295
1.8 MHz SM6CNN44,770 DL6KWN32,949 EW8RR32,382	28 MHz PX1M (PY1MK)29,300 JR3RWB6,380 LW6DW4,233		14 MHz W040498,753 K1RU404,192 K9BGL335,592		1.8 MHz N4RJ25,434 W6X/74,218 W2HU/13,552
QRP All Band KR2Q633,420 UX2MF623,904 S52P567,345 F5VBT478,886 JH10GC463,200 JR4DAH348,572 HA5BA271,065 DL8TG268,026 W6JTI259,316 K8CN/1244,736	21 MHz TO1A (F5HRY)922,532 YB0ECT450,593 TM2B (F4EGZ)201,840			14 MHz CN8KD820,228 CE3AA (XQ4CW)645,894 RA9AP534,080	ASSISTED LOW POWER All Band KE3X (@N3HBX)2,721,004 W1NT2,531,528 KS1J1,751,724 K2PO/71,227,708 W3KB1,152,364
		MULTI-OP TWO TRANSMITTER CR3W27,457,230 CN2R26,913,952 PJ4A22,078,309 PJ4Q20,822,230 PZ5V18,584,316 TK0C16,800,224 J70BH15,089,000 AH0K14,781,242 EA2EA12,961,194 A44A12,844,100	21 MHz W3BGN104,520 K5K (W5TM)73,787 W3EP/157,998	1.8 MHz W2VO12,096 AG4W7,900 N0TT2,720	CLASSIC High Power K02M/12,861,742 N2MF2,803,369 AA1K/32,203,730 K2NV1,263,990 K1GU/41,157,819
				7 MHz K9M/4220,647 W2TA/4121,064 WA3C/8109,900	21 MHz N8II966,240 N9NB/4901,680 V73NS721,510 N1IX636,398 US0HZ631,440 CT3KN623,712 R9AX606,515
				3.5 MHz W3NO82,716 K2AV/456,050 K2RR/150,295	ASSISTED LOW POWER All Band KE3X (@N3HBX)2,721,004 W1NT2,531,528 KS1J1,751,724 K2PO/71,227,708 W3KB1,152,364
				1.8 MHz N4RJ25,434 W6X/74,218 W2HU/13,552	21 MHz W2GB9,212

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- The UrbanBeam may invite a prolonged (e.g., more than 4 hours) rag chew session. This could happen even when you are just trying to work DX.
- The UrbanBeam cannot cause sunspots, or increase ionization in the ionosphere.
- The UrbanBeam may cause positive changes to operating schedules (e.g., band opens sooner, stays open later).
- May cause increased interest and enthusiasm in Amateur Radio.
- Potential side effects may include increased heart rate and excitement from working new countries.
- Initial use may cause sudden increase in DXCC Totals.
- Sudden decreases in sleep may occur as operators are able to run stations all night on 40m.
- Use the UrbanBeam with caution if a previous dipole user. Dipole users may be more sensitive to its effects.
- Use may cause envy among peer group.



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band,” among others. All such requests for more scrutiny are appreciated *and* investigated. On the whole, there appeared to be smoke, and while we found no fire, we did find a couple of embers.

With respect to “out of the band” complaints, and this was especially true on 40-meter phone and 160-meter CW (above 7200 or below 1810 for Region 1), we are happy to report that in the vast majority of cases, guys who appeared to be “out of the band” were confirmed, using the committee’s SDR (software defined radio) files, to be operating split. The DX was transmitting “out of the Region 1” band, but the stations usual-

ly were listening inside the Region 1 band. There were a very few cases in which the stations were genuinely operating out of their allowed band and these were addressed. The committee greatly appreciates the feedback from those concerned about contest ethics and adherence to the rules.

On the topic of ethics and adherence to the rules, you may note that the number of disqualifications has been

2015 CW		
Band	QSOs	% of all
160	190,221	3.8%
80	680,562	13.5%
40	1,275,566	25.4%
20	1,196,626	23.8%
15	1,263,205	25.1%
10	421,321	8.4%
GT	5,027,492	100%

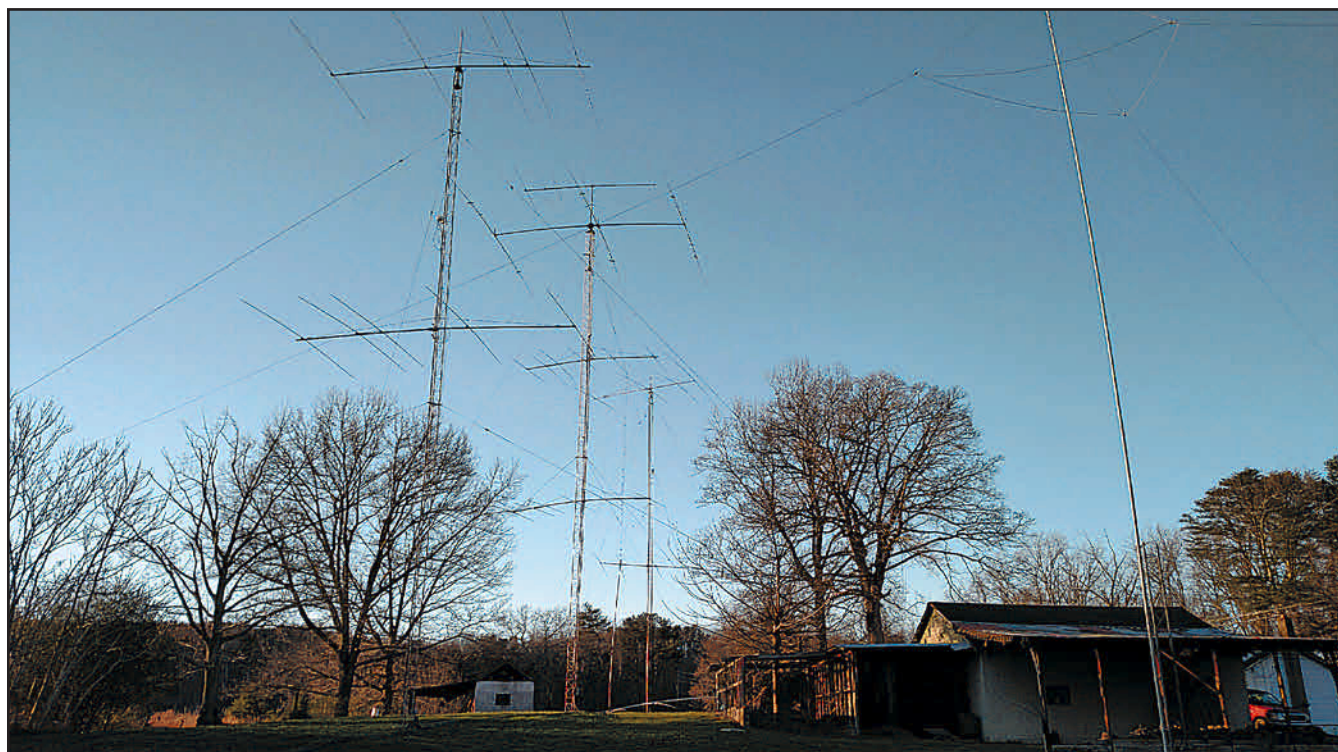
Table 2a. Breakdown of QSOs by band in the 2015 CQ WW CW Contest.

2016 CW		
Band	QSOs	% of all
160	257,045	6.2%
80	746,956	17.9%
40	1,175,001	28.1%
20	1,246,635	29.9%
15	672,100	16.1%
10	77,622	1.9%
GT	4,175,359	100.0%

Table 2b. Breakdown of QSOs by band in the 2016 CQ WW CW Contest. Note the reduced numbers on 15 and 10 meters.



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DR-03T

(Digital mode not supported.)



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2016 CQWW DX CW BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

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

WORLD SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
ZF2MJ	332/16/38	1266/27/86	2573/34/108	2835/34/114	2332/30/100	417/17/26
T15W	283/14/45	1231/23/89	2572/32/113	2289/30/104	2022/26/95	951/17/35
CR300	360/12/52	1361/21/74	1475/27/85	2498/33/111	2448/28/93	42/8/19
8P5A	311/14/52	542/18/71	1935/31/103	2550/34/107	1731/29/105	821/18/32
V47T	346/11/56	837/24/82	2237/33/110	2152/32/101	2178/24/101	172/10/15

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
W1KM	146/15/60	708/23/89	668/32/97	1484/32/108	390/21/67	44/11/23
N5DX/2	77/12/46	388/22/81	1027/33/108	1213/27/101	584/25/89	26/8/20
K1DG	137/17/54	493/21/78	655/27/92	1155/32/111	666/24/92	53/11/28
AA1K/3	57/11/27	235/15/70	793/30/95	1375/31/111	242/20/76	31/12/17
N1UR	50/8/23	321/17/74	617/28/95	849/31/102	505/25/90	45/12/25

WORLD SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
P4C	40/9/17	359/19/73	1941/29/109	1771/31/96	1314/26/71	355/14/19
LP1H	3/2/3	11/6/8	1046/35/113	1593/34/115	1969/33/123	718/18/49
*PAW	144/12/42	404/20/84	960/30/112	1285/35/113	1230/28/104	430/18/36
6Y9X	219/11/25	456/17/70	1720/33/115	1662/30/107	1301/29/98	153/13/18
HI3CC	85/8/18	571/19/79	1317/26/92	1560/31/108	2019/25/91	27/7/8

USA SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	62/13/37	490/22/92	618/35/117	1466/35/124	602/26/115	53/15/29
K1ZZ	59/10/34	263/21/89	798/38/133	1256/35/126	469/28/109	52/12/32
KDQ/1	68/14/45	459/22/90	744/27/100	1410/33/120	495/26/105	28/10/20
K3WW	86/15/50	251/18/85	633/30/116	1191/34/123	527/26/104	65/16/32
N3RS	75/14/48	254/22/94	534/36/120	980/36/131	559/28/111	69/17/36

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
CN2AA	626/24/94	1816/36/125	3344/40/156	2773/39/153	2148/37/144	72/21/47
EF8R	345/22/87	1527/37/123	2796/39/147	2364/39/146	2756/38/153	142/22/74
ED8X	356/22/86	1243/34/116	2648/39/155	2756/40/155	2685/39/153	54/20/53
P33W	647/23/82	1569/36/124	3075/39/150	2703/40/153	1864/36/146	32/19/31
KP2M	322/12/63	671/27/99	2038/38/132	2581/36/131	1984/32/134	351/17/29

USA MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
W3UA/1	65/13/42	352/21/93	740/32/117	1475/35/123	514/26/97	56/11/28
K5TR	38/15/35	190/28/99	1321/38/140	725/37/138	607/32/110	60/19/45
NR5M	40/16/31	179/26/84	1183/40/132	1059/38/135	436/31/106	78/18/46
NY4A	50/12/40	424/23/98	611/33/114	1091/34/128	570/30/107	59/18/36
K8AZ	48/15/42	247/23/92	724/37/124	1107/36/137	408/29/113	74/18/41

WORLD MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
CR3W	502/15/70	1620/33/119	3481/38/147	3190/40/147	2664/37/140	45/15/29
CN2R	758/18/72	1335/29/110	3367/38/144	3462/40/147	2791/36/140	45/14/18
PJ4A	353/18/61	1119/27/102	2750/31/125	3097/37/127	2558/32/122	565/18/37
PJ4Q	333/17/59	687/25/94	2688/34/121	3044/35/122	2561/31/127	725/16/34
PZ5V	107/12/49	829/25/97	2504/37/137	2522/37/126	2465/31/124	383/19/44

USA MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
KC1XX	97/17/61	903/29/113	1416/40/146	1851/36/141	1061/29/132	93/18/43
W2FU	99/14/48	572/26/105	798/39/136	1818/37/143	844/29/122	100/16/40
N1LN/4	55/14/36	453/23/93	921/35/123	1556/35/129	899/29/113	102/18/40
K2LE/1	94/12/43	517/27/101	850/36/129	1134/35/127	540/28/109	73/13/33
K9CT	95/18/43	302/28/96	966/40/139	1313/36/129	471/29/110	102/17/43

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
HK1NA	923/22/86	1500/28/102	3348/33/120	3737/37/143	2625/31/116	1224/20/43
PJ2T	944/22/84	1394/28/100	3024/35/127	3351/37/138	2680/32/128	1008/21/44
9A1A	1492/26/97	2435/36/125	3167/39/157	2513/38/140	1490/37/145	342/18/61
RM9A	959/21/81	1873/30/116	2460/39/143	2255/36/142	1485/29/115	21/8/11
KH6J	405/20/24	1195/33/74	1998/37/118	1894/38/101	2361/36/92	229/23/32

USA MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
W3LPL	260/20/74	1129/31/114	1475/40/148	2272/38/151	1250/32/135	267/18/51
K3LR	209/20/69	934/32/113	1385/40/153	2319/39/158	1034/32/129	201/19/50
WE3C	300/19/72	795/29/106	1485/39/149	2134/39/152	1247/31/130	220/19/49
NR4M	243/16/50	662/29/109	1294/37/130	1427/36/132	775/31/116	156/19/49
N4WW	118/19/57	377/26/103	1000/38/132	1604/36/147	823/30/120	150/17/41

TOP THREE Multi-Multi Scores Combined

2015	N.A. (1)		EUR (2)	
	Total Score	% Q	Total Score	% Q
Total Score	84M		70M	
Total QSOs	30,209	100%	35,917	100%
160 Q	1,199	4%	3,534	10%
80 Q	4,251	14%	6,165	17%
40 Q	8,061	27%	9,652	27%
20 Q	8,295	27%	7,847	22%
15 Q	6,444	21%	6,204	17%
10 Q	1,959	6%	2,515	7%

Table 3a. 2015 QSOs by band of the top three finishers CQ WW CW finishers in North America and Europe.

TOP THREE Multi-Multi Scores Combined

2016	N.A. (1)		EUR (2)	
	Total Score	% Q	Total Score	% Q
Total Score	40M		44M	
Total QSOs	18,916	100%	30,100	100%
160 Q	769	4%	3,654	12%
80 Q	2,858	5%	6,723	22%
40 Q	4,345	23%	8,748	29%
20 Q	6,725	36%	6,734	22%
15 Q	3,531	9%	3,374	11%
10 Q	688	4%	867	3%

Table 3b. 2016 QSOs by band of the top three finishers CQ WW CW finishers in North America and Europe. Stations in both years: (1) = W3LPL, K3LR, WE3C; (2) = 9A1A, LZ9W, DF0HQ

TOP SCORES IN VERY ACTIVE ZONES

Zone 3		Zone 15	
K6XX	2,808,372	E7DX	5,731,319
WJ9B/7	1,438,585	*4O3A	3,777,960
*W6YX	1,319,094	*S5ØA	3,333,915
K6NA	1,281,987	YT8A	2,993,067
*WA7NB	937,685	S53A	2,885,832

Zone 4		Zone 16	
VE3JM	5,231,061	UW2M	6,176,058
XL3A	5,010,964	RW4W	1,065,984
W9RE	3,146,352	*UR5MM	1,002,988
WXØB/5	2,937,550	RM2U	976,800
N9RV/7	2,893,968	*UC6A	912,764

Zone 5		Zone 20	
W1KM	5,575,966	4X6FR	5,638,955
N5DX/2	5,247,528	*4X\$W	4,971,096
K1DG	5,128,619	SW9AA	4,943,224
VY2TT	4,203,982	C4W	3,322,888
AA1K/3	3,746,625	4Z5LY	2,139,229

Zone 14		Zone 25	
CR6K	8,278,452	JH4UYB	4,206,410
DJ5MW	5,733,068	JE6RPM	3,862,670
EF2A	2,494,498	JR2GRX	3,342,216
TM6X	2,138,305	JN4MMO	1,371,832
GW5R	2,070,392	*JH8SLS	1,287,252

*Low Power

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CR6K	428/13/64	699/24/95	1893/38/121	2008/35/115	1465/34/112	62/11/22
UW2M	439/19/71	1013/28/106	2146/35/125	918/31/99	604/29/108	113/8/27
DJ5MW	232/10/55	785/22/86	1506/36/115	1285/33/104	687/33/111	39/9/24
E7DX	490/14/66	1199/27/89	1316/34/112	1374/34/110	594/29/100	77/6/28
SW9AA	207/9/48	1255/23/84	1811/36/109	1825/34/99	999/27/103	0/0/0

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

SN7Q	429/17/76	1441/34/119	905/38/133	1125/35/132	302/31/117	54/4/27
CU4DX	287/13/55	523/22/84	1298/28/103	1387/29/102	1340/32/110	8/5/6
UB7K	423/20/87	826/35/124	1464/37/134	932/37/138	530/33/119	24/11/17
S57ABC	238/10/55	604/29/103	1292/35/127	1247/35/127	403/31/110	34/6/18
S57AL	193/14/63	902/32/105	1204/36/134	1263/35/133	174/33/109	26/5/17

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

OM7M	212/21/90	1206/35/128	2393/40/159	1836/38/145	812/37/140	140/15/52
IR4M	110/21/85	705/33/121	2491/39/157	2332/39/148	852/36/133	52/14/43
OM8A	246/23/93	1064/36/128	2191/39/154	2162/39/150	557/36/134	114/15/43
TM6M	282/16/74	1103/32/118	1889/39/149	1922/39/152	1020/34/136	41/12/34
9A1P	266/21/87	1087/35/122	1922/39/148	1788/39/147	1055/37/141	67/12/43

EUROPE MULTI-OPERATOR TWO TRANSMITTER

TKC	906/19/79	2407/34/117	3628/40/149	3201/39/141	1535/37/136	113/10/37
EA2EA	505/18/78	1626/34/118	2634/39/146	2732/39/147	1422/36/136	46/11/32
9A7A	641/19/88	1782/34/123	2568/39/150	2298/38/147	844/35/136	104/10/39
ES9C	1373/27/97	2263/38/130	2251/40/154	2159/40/153	898/32/132	100/4/28
YT5A	446/14/71	1617/31/116	2263/40/153	2456/40/148	1009/36/141	56/12/36

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

9A1A	1492/26/97	2435/36/125	3167/39/157	2513/38/140	1490/37/145	342/18/61
LZ9W	1121/19/73	2193/36/127	2838/40/135	2672/39/146	1071/36/135	220/14/48
M6T	1219/19/90	2262/35/123	2813/39/156	2181/40/150	834/33/127	200/11/43
DFHQ	1041/20/86	2095/37/125	2744/39/158	1549/38/150	813/33/130	305/14/51
OL3Z	532/14/75	1733/32/117	1987/39/151	1599/37/131	857/34/136	59/6/33

approximately doubling for the last several years. The trend continued in 2016 for SSB. For CW, the number of disqualification was less than one-third of that for SSB, or about 0.37%.

The committee takes zero joy in the disqualification (DQ) of an entrant. Actually, we don't feel that "we" disqualified anybody; each disqualified entrant has *earned* that disqualification. It is not the committee's action that causes a DQ; it is the *entrant's* action that results in a DQ. As former committee member Gene Zimmerman, W3ZZ (SK), was fond of saying, "Cheating is binary. Either you cheated or you didn't."

The vast majority of disqualifications, for both modes, were for self-spotting. Noting the "drop" in DQs for CW as compared to SSB can be seen to make sense. On CW, we have the Reverse Beacon Network, which is sort of self-spotting for everybody. So those tempted to increase their activity level of callers are probably more tempted to do so on SSB as compared to CW, but clearly, not always.

Cheaters Gonna Cheat...

Cheating has been well documented across most activities of mankind. In one study of 88,300 graduate and undergraduate students, 17% admitted to cheating on an examination¹. When it comes to paying taxes, "A Pew Research Center poll in 2006 found that 79% of us [Americans] think it's morally wrong to not report all income for tax purposes. That means a whopping 21% think it is either morally OK or it's not a moral issue²."

Of course, we all know about cheating (doping) in sports. It spans all countries. Here is an interesting quote: "If you knew you wouldn't get caught, would you use PEDs [performance enhancing drugs]? Most of our respondents were disgusted by this question, with 90.4% answering no. 'That's



The crew of contest station TKØC poses for this photo by the seaside.

CLUB SCORES

UNITED STATES

Club	# Entrants	Score
FRANKFORD RADIO CLUB	209	244,651,001
YANKEE CLIPPER CONTEST CLUB	275	236,790,668
POTOMAC VALLEY RADIO CLUB	195	170,344,397
NORTHERN CALIFORNIA CONTEST CLUB	89	85,360,702
NORTH COAST CONTESTERS	29	55,686,243
ARIZONA OUTLAWS CONTEST CLUB	81	51,460,379
SOCIETY OF MIDWEST CONTESTERS	152	51,005,189
FLORIDA CONTEST GROUP	98	50,602,112
TENNESSEE CONTEST GROUP	41	43,354,652
SOUTHERN CALIFORNIA CONTEST CLUB	74	31,196,223
MINNESOTA WIRELESS ASSN	99	24,746,687
CAROLINA DX ASSOCIATION	37	20,816,682
SOUTH EAST CONTEST CLUB	27	19,385,803
CENTRAL TEXAS DX AND CONTEST CLUB	28	18,558,281
MAD RIVER RADIO CLUB	27	15,655,249
DFW CONTEST GROUP	25	12,624,157
GEORGIA CONTEST GROUP	27	12,504,681
WILLAMETTE VALLEY DX CLUB	44	12,449,190
GRAND MESA CONTESTERS OF COLORADO	29	11,735,047
ALABAMA CONTEST GROUP	30	10,595,350
HUDSON VALLEY CONTESTERS AND DXERS	29	8,652,968
NORTHEAST WISCONSIN DX ASSN	5	5,792,328
WESTERN WASHINGTON DX CLUB	41	5,548,087
N.E. MARYLAND AMATEUR RADIO CONTEST SOCIETY	16	5,392,793
OKLAHOMA DX ASSOCIATION	4	5,392,310
IOWA DX AND CONTEST CLUB	4	4,489,351
BIG SKY CONTESTERS	14	4,334,618
MOTHER LODE DX/CONTEST CLUB	23	3,944,029
KANSAS CITY CONTEST CLUB	14	3,598,178
BAY AREA DXERS	12	3,251,602
NIAGARA FRONTIER RADIOSPORT	14	2,775,848
ROCHESTER (NY) DX ASSN	17	2,605,595
NORTH TEXAS CONTEST CLUB	10	2,567,802
CTRI CONTEST GROUP	5	2,533,574
SALT CITY DX ASSOCIATION	4	2,317,237
TEXAS DX SOCIETY	8	2,286,223
KENTUCKY CONTEST GROUP	16	1,901,177
LOUISIANA CONTEST CLUB	6	1,834,658
NORTH CAROLINA DX AND CONTEST CLUB	10	1,701,051
HILLTOP TRANSMITTING ASSN	5	1,551,445
MISSISSIPPI VALLEY DX/CONTEST CLUB	11	1,494,734
SWAMP FOX CONTEST GROUP	13	1,435,848
SHENANDOAH VALLEY WIRELESS	7	994,351
IDAHO DX ASSOCIATION	4	929,017
UTAH DX ASSOCIATION	14	839,173
599 DX ASSOCIATION	5	754,560
BRISTOL (TN/VA) ARC	8	736,386
MERIDEN ARC	6	607,248
METRO DX CLUB	10	555,031
NORTHERN ARIZONA DX ASSN	6	540,146
WEST PARK RADIOS	10	486,209
SUNDAY CREEK AMATEUR RADIO FEDERATION	6	468,111
BERGEN ARA	6	463,787
DELARA CONTEST TEAM	5	369,939
SPOKANE DX ASSOCIATION	9	309,839
SKYVIEW RADIO SOCIETY	5	145,793
KANSAS CITY DX CLUB	5	85,305

DX

Club	# Entrants	Score
BAVARIAN CONTEST CLUB	342	212,674,217
EA CONTEST CLUB	112	145,348,861
ITALIAN CONTEST CLUB	216	125,020,830
RHEIN RUHR DX ASSOCIATION	189	112,713,940
ARAUCARIA DX GROUP	45	96,605,840
CONTEST CLUB ONTARIO	101	94,699,403
CROATIAN CONTEST CLUB	57	87,252,717
RUSSIAN CONTEST CLUB	106	78,410,611
LU CONTEST GROUP	56	77,956,956
UKRAINIAN CONTEST CLUB	153	60,848,618
CONTEST CLUB FINLAND	60	49,066,003
SLOVENIA CONTEST CLUB	55	48,710,859
HA-DX-CLUB	29	41,716,514
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	55	39,002,436
CLIPPERTON DX CLUB	27	30,264,551
SP DX CLUB	107	21,473,443
BELOKRANJEC CONTEST CLUB	14	21,305,831
VK CONTEST CLUB	27	20,886,698
RADIO CLUB VENEZOLANO CARACAS	24	20,441,945
VU CONTEST GROUP	23	18,446,691
ORCA DX AND CONTEST CLUB	28	17,266,361
CONTEST GROUP DU QUEBEC	15	16,785,844
URAL CONTEST GROUP	34	16,166,748
RIO DX GROUP	43	15,878,759
BOSNIA AND HERZEGOVINA CONTEST CLUB	17	15,831,568
CONTEST CLUB SERBIA	78	14,306,005
CE CONTEST GROUP	9	13,953,971
BELARUS CONTEST CLUB	39	13,869,088
MARITIME CONTEST CLUB	19	13,255,620
LATVIAN CONTEST CLUB	28	12,813,682
UA2 CONTEST CLUB	10	12,679,332
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	20	12,461,931
WORLD WIDE YOUNG CONTESTERS	15	11,974,955
CHILTERN DX CLUB	30	10,624,971
WEY VALLEY AMATEUR RADIO GROUP	4	8,800,946
SKY CONTEST CLUB	4	8,682,303
CRIMEAN CONTEST CLUB	8	8,423,238
599 CONTEST CLUB	15	8,126,615
RUSSIAN CW CLUB	62	7,328,062

Club	# Entrants	Score
LITHUANIAN CONTEST GROUP	10	5,984,132
SIAM DX GROUP	12	5,707,338
SOUTH URAL CONTEST CLUB	14	5,659,692
YB LAND DX CLUB	71	5,561,324
UNIVERSITY OF TOKYO CONTEST CLUB	8	5,355,261
CATALONIA CONTEST CLUB	7	5,288,033
DONBASS CONTEST CLUB	17	4,927,864
LA CONTEST CLUB	14	4,832,049
TERESINA DX GROUP	5	4,710,132
RU-QRP CLUB	21	4,527,208
ANTWERP CONTEST CLUB	4	4,185,838
GRIMSBY AMATEUR RADIO SOCIETY	7	4,080,063
NOVOKUZNETSK RADIO CLUB	14	3,977,357
WEST SERBIA CONTEST CLUB	12	3,962,941
THRACIAN ROSE CLUB	40	3,937,562
THAILAND DX ASSOCIATION	4	3,707,343
YOKOHAMA DX CLUB	7	3,414,247
BLACK SEA CONTEST CLUB	25	3,221,371
MAUI AMATEUR RADIO CLUB	5	3,070,875
GUARDI DX GROUP	10	3,033,055
SAUDI CONTEST GROUP	6	2,763,244
ARKTIKA	10	2,605,959
ARCK	18	2,460,049
CLUB DE RADIO EXPERIMENTADORES DE OCCIDENTE	6	2,262,434
COCKENZIE AND PORT SETON ARC	4	2,254,555
ALRS ST PETERSBURG	15	2,052,927
CDR GROUP	79	2,047,029
CZECH CONTEST CLUB	5	2,008,116
MY CONTEST CLUB	4	1,999,737
GMDX GROUP	10	1,934,165
VRHNIKA CONTESTERS	5	1,881,373
DANISH DX GROUP	34	1,755,691
YO DX CLUB	29	1,738,282
RADIOSPORT MANITOBA	6	1,683,758
SOUTHERN OSAKA CONTEST CLUB	14	1,598,407
AMATEUR RADIO SOCIETY ITALIA	22	1,426,728
RUSSIAN EXTREME	5	1,391,757
SOUTH GERMAN DX GROUP	7	1,293,102
SARATOVSKAYA OBLAST RADIO CLUB	10	1,285,297
GRUPO DXE	9	1,229,745
SP CONTEST CLUB	6	1,222,059
THREE A'S CONTEST GROUP	5	1,220,704
CHILEAN PACIFIC DX GROUP	13	1,196,815
Z37M CONTEST TEAM	8	1,194,551
ADMIRA ARAD	5	1,175,571
TANGO FOX RADIO FOXES	4	1,128,053
OMSK RADIO CLUB	7	1,115,210
SK00Q SODERTORNS RADIOAMATORER	5	1,092,924
THE AKITA DX ASSOCIATION	10	1,079,872
IRKUTSK RADIO CLUB	8	1,077,341
KEYMEN'S CLUB OF JAPAN	30	1,046,110
FALKOPINGS RADIOCLUB	5	1,039,750
SAYAN DX CLUB	6	1,019,394
THE BARBEQUE ENTHUSIASTS AMATEUR RADIO CLUB	7	990,581
PEMBROKESHIRE CONTEST GROUP	5	963,409
KRIVBASS	10	875,431
TOP OF EUROPE CONTESTERS	5	859,737
BALATON RADIOAMATEUR DX CLUB	4	816,235
CS PETROLUL PLOIESTI	4	808,436
FIRST CLASS CW OPERATORS CLUB	5	722,893
CSTA SUCEAVA	5	721,295
GIPANIS CONTEST GROUP	12	702,865
PODOLSK	6	684,342
DOMODEDOVO	6	647,147
TARTU CONTEST TEAM	4	632,039
CSU PITESTI	5	631,479
VOLYN CONTEST GROUP	7	607,584
SK6AW HISINGENS RADIOKLUBB	8	603,140
NORDX CLUB	9	592,080
STAVROPOL REGION CONTEST CLUB	4	574,228
SASKATCHEWAN CONTEST CLUB	6	572,895
GERMAN DX FOUNDATION	8	563,300
SPEKTR	4	546,622
FUCHU AMATEUR RADIO CLUB	5	540,889
OBNSK QRU CLUB	9	539,511
SPANDAU DXERS	5	458,423
RADIO CLUB KVARNER RIJEKA	10	419,316
TRUJILLO ALTO CONTEST CLUB	4	406,503
BRACKNELL AMATEUR RADIO CLUB	5	391,933
CABREUVADX	12	390,645
YYP CLUB	4	389,946
VLADIMIR CONTEST GROUP	7	375,357
CENTRAL SIBERIA DX CLUB	4	359,394
UR-QRP-CLUB	11	354,089
MEDITERRANEO DX CLUB	6	352,954
PARANA RADIOSPORT TEAM	6	307,234
R4F-DX-G	6	300,993
OK1KQJ CONTEST CLUB	5	295,042
SWINDON AND DISTRICT AMATEUR RADIO CLUB	9	233,460
RUSSIAN DIGITAL RADIO CLUB	5	212,834
VITEBSK CONTEST CLUB	4	210,218
VORONEZH RADIO CLUB	5	196,770
RADIOCLUBUL QSO BANAT TIMISOARA	7	172,554
CSM TIMISOARA	4	166,348
TDR	5	142,219
TOP DX RADIOCLUB	4	135,657
SK5AA VASTERAS RADIOKLUBB	5	133,533
SP-CW-C	5	111,406
RTTY CONTESTERS OF JAPAN	6	100,835
KILMARNOCK AND LOUDOUN ARC	4	79,215
NORFOLK AMATEUR RADIO CLUB	5	57,121
CSM CRAIOVA	4	47,722

crazy to even think about,' says an MLB pitcher. But the other 9.6% went the other way. 'Of course!' says an NFL All-Pro. 'I would use all types of drugs if I could. Think about it: If you're playing against guys who are taking steroids and you don't take them, they'll dominate you. 3''

Anyhow, you get the idea. On the plus side, looking at phone and CW combined, only about 0.7% of entrants

earned a DQ; a bit more on phone and less on CW. So overall, we think the contest is in excellent shape in terms of overall honesty.

What do we hear back from those who receive a disqualification notification? Happily, about half acknowledge their aberrant behavior and graciously accept the outcome they have earned and accept our invitation to join in the fun next year.



The crew that helped M6T included from left to right: Dave, G4BUO; Ian, G4IYY; Justin, G4TSH; Tony, G2NF; Graham, G4FNL; and Dave, G3WGN.



Team members of PJ4A were: K4BAI, PJ4LS, and K9NW.



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New for the 2017 contest season will be an attempt to focus more on unique QSOs. If you're not familiar with the usage here, a "unique" QSO in CQWW is a callsign that appears in one and only one submitted log.

Of the remaining percentage, some question whether they cheated "enough" to earn a DQ. In CQWW, there is no published "sliding scale" of how much cheating is enough to earn a DQ. But having said that, you will not be DQed for making one "out of the band" QSO. However, if you were notified in an earlier year about an observed infraction and you then repeated such an action this year, you will definitely be subject to disqualification. As we see in the stages of grief, this is analogous to the "bargaining" phase of dealing with death.

Still others argue, "Why would I cheat?" Exactly! But a verbal argument such as that carries little weight against a body of evidence. If you live by the sword, then it should not come as a surprise that you can die by the sword. You reap exactly what you sow.

Unlike the U.S. Internal Revenue Service, which audits about 1.2% of tax returns, the CQWW Contest Committee strives to do an equitable analysis of *all* submitted logs. If your log kicks off a statistical flag, then you will get further scrutiny.

The main goal of the contest is to provide a fun activity for all participants. For some entrants, the only goal is winning (or qualifying for the next WRTC, World Radiosport Team Championship). A goal of the CQWW Contest Committee is to appropriately adjudicate the submitted logs/scores, regardless of the entrant's motivation. We think the 99% will appreciate all of our efforts including, on rare occasion (1%), subsequent earned actions by those who feel that they can escape scrutiny or finesse their way past the evidence.

Looking Ahead to Uniques

New for the 2017 contest season will be an attempt to focus more on *unique QSOs*. If you're not familiar with the usage here, a "unique" QSO in CQWW is a callsign that appears in one and only one submitted log. On occasion, someone will get on the air, make one contest QSO and then move on to something different or go off the air. In the vast majority of cases, though, the



RL5D stationed at GU3HFN during the 2016 CQWW DX CW Contest.

"unique" is actually a miscopied or "busted" call.

W7EJ shared his approach to taking a look at his 2015 log, with a special focus on uniques. He was able to demonstrate that, using a different approach, he was sure that the CQWW log checking inappropriately gave him credit for unique calls that he was able to demonstrate were busted calls.

It has always been the position of the committee that we wouldn't bust a unique simply for being a unique. When a review of removing all uniques was done several years ago, almost no changes were found in the order (rank) of finish for any category. The only changes occurred very far down in the ranks and there were only a handful. Since we know that some uniques are real (but very few, except for DXpeditions to very rare places or on difficult bands, where another station may be interested only in working the DX station), we have always felt that the risk of bad press on busting a proven good unique was not worth it; especially since the order of finish would not have changed. But when an opportunity arrives to more accurately adjudicate the logs, we will go for it.

Another area of future scrutiny will be the *CNIL calls*, or *claimed not-in-log*. Those are calls where somebody claimed to have worked you, but you didn't log them. We will look at M/S and M/2 entries to make sure they are not deliberately removing calls from their

logs. We will do this with the assistance of our SDR audio files.

At this time, we enthusiastically look forward to seeing all of you again on October 28, 29 on Phone and on November 25, 26 on CW in 2017.

Finally, many thanks to the members of the CQWW Contest Committee, whose help and expertise help make the contest the huge success that it is: CT1BOH, José Nunes; EA4KD, Pedro Vadillo; ES5TV, Tonno Vahk; F6BEE, Jacques Saget; GØMTN, Lee Volante; HA1AG, Zoli Pitman; IK2QEI, Stefano Brioschi; JH5GHM, Katsuhiko (Don) Kondou; K1AR, John Dorr; K1DG, Doug Grant; K3LR, Tim Duffy; K3WW, Charles Fulp; K3ZO, Alfred A. (Fred) Laun, III; K5ZD, Randy Thompson; KR2Q, Doug Zwiebel; LU5DX, Martin Monsalvo; N8BJQ, Steve Bolia; OH6LI, Jukka Klemola; PA3AAV, Gert Meinen; RA3AUU, Igor (Harry) Booklan; S5ØA, Tine Brajnec; S5ØXX, Kristjan Kodermac; UA9CDC, Igor Sokolov; VE3EJ, John Sluymmer; VK2IA, Bernd Laenger; W4PA, Scott Robbins; W5OV, Bob Naumann; YO3JR, Andrei (Andy) Ruse; YU1EW, Zoran Mladenovic.

Notes

All references accessed on March 31, 2017

1. <<http://bit.ly/1LRhJ5N>>
2. <<http://bit.ly/2ozpQMQ>>
3. <<http://es.pn/2nMGpF6>>

(Scores continued on page 94)