

Results of the 2017 CQWW DX CW Contest

“An all-time record number of CW logs received”

BY DOUG ZWIEBEL,* KR2Q

Does that headline look familiar? It should, as that’s almost exactly what we said for the SSB weekend. For the 2017 CQWW CW weekend, 8,451 logs were received. Compared to 2010, that’s a 37% jump. Now that’s a lot! Combining SSB and CW weekend log volumes shows that the CQWW Contest is still the biggest, most popular, and best DX contest going, breaking the 17,000 total logs mark for the first time (17,057). We received logs from 181 different DX multipliers and from all 40 zones, while entrants claimed contacts with 204 different CQWW countries. Let’s face it; CQWW is the place to be.

Not only are there lots of global participants, but they’re making more QSOs, too. That means more fun.

Just look at those 2017 numbers. In the last 10 years, we see a record number of QSOs on 160 meters, a record number on 80, a record number on 40, and a record number on 20 meters. If you chose 15 or 10 meters, well, you’ve seen

better days, but 2017 certainly was not the worst year for those two bands. Hang in there, contesters; as we all know, conditions will improve on 10 and 15 (one day).

And as a point of reference, for 2017 SSB there were 3,531,480 total QSOs. CW was a lot better.

Where do all those CW QSOs come from? Just as we saw on SSB, they mostly come from Europe; in fact, even more so for CW. On SSB, Europe accounted for 48.3% and North America accounted for 28.3%.

Continent	# logs	% of all
AF	72	0.9%
AS	1,353	16.0%
EU	4,476	53.0%
NA	2,147	25.4%
OC	174	2.1%
SA	229	2.7%
Grand Total	8,451	

*c/o CQ Magazine

CQWW CW Number of Total QSOs Per Band by Year

Year	160	80	40	20	15	10	Total
2017	264,550	800,034	1,288,836	1,300,722	673,433	48,138	4,375,713
2016	257,045	746,942	1,175,005	1,246,638	672,159	77,620	4,175,409
2015	190,221	680,562	1,275,566	1,196,626	1,263,205	421,312	5,027,492
2014	180,075	556,643	1,103,660	1,090,425	1,268,402	1,398,923	5,598,128
2013	172,213	575,476	1,120,665	1,018,929	1,218,080	1,164,558	5,269,921
2012	193,424	600,694	1,016,479	1,057,690	1,193,292	851,780	4,913,359
2011	177,142	554,366	1,108,192	923,714	1,050,597	1,285,808	5,099,819
2010	245,568	743,788	1,181,494	1,146,906	905,123	169,485	4,392,364
2009	240,364	662,676	1,137,014	1,142,339	529,244	49,591	3,761,228
2008	243,704	690,727	1,042,701	1,133,079	284,166	20,966	3,415,343

CQWW CW QSO Percentage Distribution, by Band, per Year

Year	160	80	40	20	15	10
2017	6.0%	18.3%	29.5%	29.7%	15.4%	1.1%
2016	6.2%	17.9%	28.1%	29.9%	16.1%	1.9%
2015	3.8%	13.5%	25.4%	23.8%	25.1%	8.4%
2014	3.2%	9.9%	19.7%	19.5%	22.7%	25.0%
2013	3.3%	10.9%	21.3%	19.3%	23.1%	22.1%
2012	3.9%	12.2%	20.7%	21.5%	24.3%	17.3%
2011	3.5%	10.9%	21.7%	18.1%	20.6%	25.2%
2010	5.6%	16.9%	26.9%	26.1%	20.6%	3.9%
2009	6.4%	17.6%	30.2%	30.4%	14.1%	1.3%
2008	7.1%	20.2%	30.5%	33.2%	8.3%	0.6%

One group of logs that is often overlooked is the check logs that are submitted. On CW, we received 493 check logs, or 5.8% of all logs. These logs are very much appreciated and are incredibly useful for cross-checking.

High Power? Low Power? Assisted? Not Assisted?

A large number of the received logs are Single-Operator, All-Band (SOAB) logs, which are subdivided into High Power and Low Power, and which are further subdivided into Assisted and Not Assisted. There were 4,985 such logs, or more than 62% of all received logs. Here is the breakdown of those logs:

Category	# of logs Single Op, All band, High Power by Continent						Grand Total
	AF	AS	EU	NA	OC	SA	
AB_H_A	4	136	620	616	16	23	1,415
AB_H_U	8	157	285	255	18	13	736
Grand Total	12	293	905	871	34	36	2,151
% assisted	33.3%	46.4%	68.5%	70.7%	47.1%	63.9%	65.8%

2017 WWDX CW TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BANDS

World
CR300 (Opr.: Jose Nunes, CT1BOH)
 Donor: Vibroplex

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

World - QRP
Felipe Hernandez, NP4Z
 Donor: Bob Evans, K5WA

World - Assisted
Bernd Och, DL6FBL
 Donor: Robert McGwier, N4HY

World - Assisted Low Power
P40W (Opr.: John Crovelli, W2GD)
 Donor: Lyubomir "Leo" Slavov, OR2F

World - Assisted QRP
Pit Schmidt, DM2M
 Donor: Steve "Sid" Caesar, NH7C

USA
Kevin Stockton, N5DX
 Donor: Frankford Radio Club

USA - Low Power
Terry Zivney, N4TZ
 Donor: North Coast Contesters

USA - QRP
Doug Zwiebel, KR2Q
 Donor: W3ZZ Memorial (Andy Blank, N2NT)

USA - Assisted
Dave Sumner, K1ZZ
 Donor: John Rodgers, WE3C

USA - Assisted Low Power
Jim Bowman, KS1J
 Donor: LA8W/LN8W Leia Contest Club

USA - Zone 3
Bob Wolbert, K6XX
 Donor: Arizona Outlaws Contest Club

USA - Zone 4
Mike Wetzel, W9RE
 Donor: Society of Midwest Contesters

USA - Zone 5
Greg Cronin, W1KM*
 Donor: N4ZC Memorial (Carolina DX Association)

Europe
CR6K (Opr.: Filipe Lopes, CT11LT)
 Donor: W3AU Memorial (Florida Contest Group)

Europe - Low Power
GU3HFN (Opr.: Oleg Borisov, RL5D)
 Donor: Tim Duffy, K3LR

Europe - QRP
Zoli Pitman, HA1AG
 Donor: I4FAF Memorial (Sergio Cartoceti, IK4AUY)

Europe - Assisted
Jon Zumalabe, EF2A*
 Donor: I4IND Memorial (IR4X Monte Capra Contest Team)

Europe - Assisted Low Power
Sergei Fesenko, UZ3A
 Donor: Rudy Bakalov, N2WQ

Africa
3B9HA (Opr.: Olof Lundberg, G0CKV)
 Donor: K5KA Memorial (Ralph "Gator" Bowen, N5RZ)

Carib./C.A.
T17W (Opr.: Chris Hurlbut, KL9A)
 Donor: W5PG Memorial (DFW Contesting Group)

Carib./C.A. - Low Power
YN2CC (Opr.: Mike Kasrich, AJ9C)*
 Donor: Albert Crespo, NH7A

Oceania
9M6NA (Opr.: Saty Nakamura, JE1JKL)
 Donor: KH2D Memorial (Ken Hoppe, KH7R)

South America
Nick Lekic, 9Y4/VE3EY
 Donor: Dave Farnsworth, WJ2O

South America - Southern Cone (CE, CX, LU)
Daniel Pardias, CX9AU
 Donor: Dale Long, N3BNA

South America - Southern Cone (CE, CX, LU) - Assisted
Martin Monsalvo, LU5DX
 Donor: LU Contest Group

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
Low Power
Abbas Capri, YB9WIC
 Donor: Bob Kupps, N6BK

Scandinavia (LA, OH, OZ, SM)
Pekka Kaar, OH8NW
 Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)

Baltic (ES, LY, YL)
Albertas Pipiras, LY5R
 Donor: LY200 Memorial (Lithuanian Radio Sports Federation)

Canada
Ken Widelitz, VY2TT
 Donor: John Sluymmer, VE3EJ & Jim Roberts, VE7ZO

Russia
Yuri Kotelnikov, RT9S
 Donor: Roman Thomas, RZ3AA

Indonesia
Yana Koryana, YB1AR
 Donor: "Joy" N. Djojo, YB0NSI

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

Japan - Assisted
Hiroyuki Inaba, JS3CTQ
 Donor: Aki Nagi, JA5DQH

SINGLE OPERATOR, SINGLE BAND

World - 28 MHz
Douglas Silva, PP5FB
 Donor: Joel Chalmers, KG6DX

World - 21 MHz
PJ4A (Opr.: Jeff Clarke, KU8E)
 Donor: CWOps

World - 14 MHz
Paolo Stradiotto, YW4D
 Donor: W2JT Memorial (North Jersey DX Assn.)

World - 7 MHz
Rastislav Hrnko, CT9/OM3BH
 Donor: John Rodgers, WE3C

World - 3.5 MHz
Nick Perminov, UN4L
 Donor: Fred Capossela, K6SSS

World - 1.8 MHz
Milan Pivk, S58MU
 Donor: Kenneth Byers, Jr., K4TEA

USA - 28 MHz
Courtney Judd, K4WI
 Donor: John Rodgers, WE3C

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

USA - 14 MHz
Brian Edward, N2MF
 Donor: Northern Illinois DX Association

USA - 7 MHz
Dan Handa, W7WA
 Donor: Gene Shablygin, W3UA

USA - 3.5 MHz
Steve Sussman, W3BGN
 Donor: Bill Feidt, NG3K

USA - 1.8 MHz
Robye Lahlum, W1MK
 Donor: Jeff Briggs, K1ZM

Europe - 28 MHz
Milan Milovanovic, YT0Z
 Donor: Jay Pryor, K4OGG

Europe - 21 MHz
CR2M (Opr.: Oliver Sweningen, W6NV)
 Donor: Bob Naumann, W5OV

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

Europe - 7 MHz
Manuel Abian Osorio, EA7RM
 Donor: Ivo Pezer, 9A3A

Europe - 3.5 MHz
RW2F (Opr.: Dmitri Gorskov, UA2FB)
 Donor: K3VW Memorial (Frankford Radio Club)

Europe - 1.8 MHz
Al Zinkevich, EU4E*
 Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

Asia - 14 MHz
UP2L (Opr.: Willy Umanets, UA9BA)
 Donor: W5FO Memorial (Ralph "Gator" Bowen, N5RZ)

Asia - 7 MHz
Sulaiman Saad Aljedaei, 7Z1SJ
 Donor: Rich Gelber, K2WR

Carib./C.A. (21 MHz)
Oliver Cado, FG/F6ARC*
 Donor: David Hodge, N6AN

Canada - 14 MHz
Noel Poulin, VE2FWW
 Donor: John Sluymmer, VE3EJ

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

Japan - 14 MHz
Yukihisa Yamashita, JA6LCJ
 Donor: Chris Terkla, N1XS

OVERLAY CATEGORIES

World - Classic
Bob Shohet, KQ2M*
 Donor: CWops

U.S.A. - Classic
W4CB (Opr.: Bud Hippisley, W2RU*)
 Donor: CWops

# of logs Single OP, All band, Low Power by Continent							
Category	AF	AS	EU	NA	OC	SA	Grand Total
AB_H_A	6	149	566	328	13	35	1,097
AB_H_U	16	288	972	398	26	37	1,737
Grand Total	22	437	1,538	726	39	72	2,834
% assisted	27.3%	34.1%	36.8%	45.2%	33.3%	48.6%	38.7%

Europe and North America accounted for 82.6% of all SOABHP logs. And for SOABLP, Europe and North America accounted for an equally impressive 79.9% of logs received in those categories. What is interesting, and curious, is the breakdown of Assisted versus Not-Assisted. For high power entrants, 68.5% of European entrants chose Assisted, as did 70.7% of stations in North American.

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3CX1200D7	4CX10000A	845
3CX1200Z7	4CX15000A	8146B
3CX1500A7	4CX20000B	3-500ZG
3CX3000A7	4CX20000C	3-1000Z
3CX6000A7	4CX20000D	4-400A
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World – Rookie
Omar Al Attar, A61EK
Donor: CWops

U.S.A. – Rookie
Peter Kulik, K8PJK
Donor: CWops

Europe – Rookie
Janko Mihailovic, YU3EEA
Donor: EA Contest Club

MULTI-OPERATOR, SINGLE TRANSMITTER

World
EF8R (Oprs.: RA5A, UA5C, RW1A, RD1A, RN1AM, RA2FA, RC5A, UA4WW, EA8RM)
Donor: KL7RA Memorial (Friends of Rich)

World – Low Power
9G5W (Oprs.: S54W, S57UN, S57SU, S57GM, S59A, S59ZZ, OZ7AM)
Donor: EA Contest Club

U.S.A.
W3UA (Oprs.: RM9I, R8CT, NU3C, W3UA)
Donor: Douglas Zwiebel, KR2Q

U.S.A. – Low Power
N4WW (Oprs.: NK4DX, WP3A, AD4Z, K1MM)
Donor: CWOps

Africa
CN2AA (Oprs.: RA3CO, RL3FT, RX3APM, UA3AB, RA9USU, UA4Z, RK3AD, RN2FA, UA3ASZ, RU9I, UA9MA, RK4FW, RN5M)*
Donor: Harry Booklan, RA3AAU

Asia
P33W (Oprs.: 4Z5LA, LY4AA, YO3JR, R4FO, UA4FER, RW4WR, RA3AAU)
Donor: Steve Merchant, K6AW

Carib./C.A.
NP2X (Oprs.: K9VV, NE9U)
Donor: CWops

Europe
IR4M (Oprs.: HB9CAT, I4EWH, I4IFL, IK3QAR, IK4DCW, IK4HVR, IK4MGP, IK4WMH, IN3FHE, IV3AZV, IW3FVZ, IZ4NIC, IZ4ZZB)
Donor: Gail Sheehan, K2RED

Oceania
AH2R (Oprs.: JI3ERV/NH2C, JR7OMD/WI3O, JR8VSE/NH2N, JA1KSA/N3NQL)
Donor: Junichi Tanaka, JH4RHF

South America
PS2T (Oprs.: PY2KC, PY2NA, PY2NDX, PY2YU, PY2ZEA, PY5EG)
Donor: Araucaria DX Group

Canada
VE3EJ (Oprs.: VE3EJ, VE3EK, VE3KI, VE3MM)
Donor: VE3TA Memorial (John Sluymmer, VE3EJ)

Japan
JA7ZFN (Oprs.: JA1CTB, JG7PSJ, JH7XMO, JP7DKQ, JR7TEQ)
Donor: Madison Jones, W5MJ

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
YE1K (Oprs.: YB1CF, YB1JSJ, YB1KAR, YC1KAF, YC1ME, YC1MR, YD1JZ, YD1DGZ, YD1DOQ, YD1OLG, YF1DO)
Donor: Bob Kupps, N6BK

MULTI-OPERATOR, TWO TRANSMITTERS

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

U.S.A.
KC1XX (Oprs.: KC1XX, JJ5GMJ, K1QX, K1TR, KM3T, W1FV, WA1Z, WA2OAX)
Donor: Robert Kasca, S53R

Europe
TK0C (Oprs.: S53BB, S53CC, S53F, S53MM, S53RM, S53ZO, S55OO, S57C, S57L, S57K)
Donor: World Wide Radio Operators Foundation

ASEAN (XZ, HS, XW, XU, 3W, 9M, 9V, V8, YB, DU)
HS0ZAR (Oprs.: K3ZO, W2YR, LA7JO, 5B4AGN, G3AB, G3XTT, DL3DX, 9M2ZAK, HS0ZDX, HS0ZDY, HS3ANP, HS3XVP, HS4RAY, E20NKB, E21EIC)
Donor: Siam DX Group

MULTI-OPERATOR, MULTI TRANSMITTER

World
PJ2T (Oprs.: KB7Q, W0TT, W1FJ, N5OT, K1YR, NA2U, N7IR, K2PLF, W8WTS, W0CG)
Donor: K2GL Memorial (The K2GL Operators)

U.S.A.
W3LPL (Oprs.: W3LPL, N11N, K2YWE, K3AJ, K3CT, K3IT, K3KU, K3MM, N3OC, K3RA, K3TEJ, WR3Z, KD4D, N4QQ, K4ZA)
Donor: W6RJ and N6RJ Memorial (Ham Radio Outlet)

Europe
9A1A (Oprs.: 9A5W, 9A9A, 9A6A, 9A7R, 9A5E, 9A8A, 9A2EU, 9A7DR, IZ8FWN, IV3SKB, IZ1LBG, IK2QEI)
Donor: Finnish Amateur Radio League

Africa
No Entries
Donor: EA9EO Memorial

Asia
A44A (Oprs.: A41JZ, A45TT, N6AA, W6XD, VU2CDP, VU2PTT)
Donor: Nodir Tursun-Zade, EY8MM

CONTEST EXPEDITIONS

World Single Operator
VE3RZ/VP9 (Opr.: VE3RZ)
Donor: N6ZZ Memorial (Friends of Phil)

World Multi-Operator
P40FL (Oprs.: N5KO, N7MH, W0YK, W6LD)
Donor: CWOps

SPECIAL AWARDS

World SSB/CW Combined
Ron Vander Kraats, XL3T
12,882,032
Donor: Hrane Milosevic, YT1AD

USA SSB/CW Combined
NR3X (Opr.: Nate Moreschi, N4YDU)
11,860,250
Donor: Bob Shohet, KQ2M

World RTTY/SSB/CW Combined
Andrius Ignotas, LY7Z
10,868,807
Donor: Rudy Bakalov, N2WQ

Combined SSB/CW Score 160 Meters
Milan Pivk, S58MU
210,120
Donor: IT9ZGY Memorial (Team IB9T/IR9Y)

CLUB

USA SSB/CW
Frankford Radio Club
274,686,790
Donor: Northern California Contest Club

DX SSB/CW
Bavarian Contest Club
241,510,421
Donor: John Rodgers, WE3C

*Second place

The team that made up KH6J were (from left to right): Doug Morgan, KH6U; Mark Gerber, WH7W; Eran Agmon, WH6R; Mike Tessmer, K9NW; Dave Mueller, N2NL; John Hillyer, KH6SH; Kimo Chun, KH7U; and Alex Benton, KH6YY (Alex did not operate). Stuart Nishimura, KH6FP, also was part of the team but was not in the photo. (Photo by KH7U)



CLUB SCORES

UNITED STATES

Club	# Entrants	Score
FRANKFORD RADIO CLUB	240	274,686,790
YANKEE CLIPPER CONTEST CLUB	297	265,899,525
POTOMAC VALLEY RADIO CLUB	231	151,737,276
NORTHERN CALIFORNIA CONTEST CLUB	99	64,919,778
SOCIETY OF MIDWEST CONTESTERS	140	58,519,349
ARIZONA OUTLAWS CONTEST CLUB	87	49,745,114
FLORIDA CONTEST GROUP	104	46,417,470
SOUTHERN CALIFORNIA CONTEST CLUB	72	39,780,145
NORTH COAST CONTESTERS	18	37,139,173
MINNESOTA WIRELESS ASSN	122	34,262,999
TENNESSEE CONTEST GROUP	36	24,191,950
CENTRAL TEXAS DX AND CONTEST CLUB	27	23,100,603
CAROLINA DX ASSOCIATION	30	17,158,529
DFW CONTEST GROUP	26	16,906,165
GEORGIA CONTEST GROUP	27	16,723,552
WILLAMETTE VALLEY DX CLUB	39	15,530,985
MAD RIVER RADIO CLUB	29	13,301,178
ALABAMA CONTEST GROUP	38	10,660,005
HUDSON VALLEY CONTESTERS AND DXERS	30	10,146,529
WESTERN WASHINGTON DX CLUB	40	8,375,859
NORTHEAST WISCONSIN DX ASSN	8	7,088,809
NE MARYLAND AMATEUR RADIO CONTEST SOCIETY	18	5,326,334
GRAND MESA CONTESTERS OF COLORADO	28	4,966,199
KENTUCKY CONTEST GROUP	17	4,510,809
NIAGARA FRONTIER RADIOSPORT	16	4,380,482
BIG SKY CONTESTERS	6	4,210,698
LOUISIANA CONTEST CLUB	10	3,563,900
TEXAS DX SOCIETY	13	3,387,503
NORTH CAROLINA DX AND CONTEST CLUB	13	3,223,056
SPOKANE DX ASSOCIATION	16	3,102,057
SOUTH EAST CONTEST CLUB	28	2,928,016
MOTHER LODE DX/CONTEST CLUB	23	2,723,038
SWAMP FOX CONTEST GROUP	16	2,537,806
ROCHESTER (NY) DX ASSN	22	2,464,482
KANSAS CITY CONTEST CLUB	14	1,997,232
BAY AREA DXERS	5	1,616,129
SOUTH JERSEY DX ASSOCIATION	5	1,566,215
NORTH TEXAS CONTEST CLUB	8	1,376,845
UTAH DX ASSOCIATION	14	1,354,472
HILLTOP TRANSMITTING ASSN	7	1,267,652
PORTAGE COUNTY AMATEUR RADIO SERVICE	4	1,165,622
DEEP DIXIE CONTEST CLUB	6	1,124,634
METRO DX CLUB	14	996,809
SALT CITY DX ASSOCIATION	4	972,084
SILVER COMET AMATEUR RADIO SOCIETY	11	707,068
MERIDEN ARC	4	681,732
BRISTOL (TN/VA) ARC	8	664,025
CTRI CONTEST GROUP	8	645,248
SUNDAY CREEK AMATEUR RADIO FEDERATION	7	639,186
NORTHERN ARIZONA DX ASSN	6	629,497
IDAHO DX ASSOCIATION	4	528,015
MISSISSIPPI VALLEY DX/CONTEST CLUB	9	404,039
BERGEN ARA	6	397,974
KANSAS CITY DX CLUB	5	305,713
GREAT SOUTH BAY AMATEUR RADIO CLUB	7	289,123
WEST PARK RADIOPS	7	226,480
HOOSIER DX AND CONTEST CLUB	4	206,850
MILFORD OHIO AMATEUR RADIO CLUB	5	159,308
SHENANDOAH VALLEY WIRELESS	4	157,072
COLUMBUS AMATEUR RADIO CLUB	9	144,386
PAMLICO AMATEUR RADIO SOCIETY	5	57,827
SOUTH JERSEY RADIO ASSOCIATION	4	18,281
STERLING PARK AMATEUR RADIO CLUB	4	10,791

DX

Club	# Entrants	Score
BAVARIAN CONTEST CLUB	304	241,510,421
ITALIAN CONTEST CLUB	172	148,546,204
EA CONTEST CLUB	109	148,475,857

RHEIN RUHR DX ASSOCIATION	207	139,177,517
ARAUCARIA DX GROUP	54	101,890,401
CONTEST CLUB ONTARIO	97	95,735,777
LU CONTEST GROUP	63	66,532,534
UKRAINIAN CONTEST CLUB	170	65,341,441
CROATIAN CONTEST CLUB	62	60,731,406
SLOVENIA CONTEST CLUB	64	54,440,532
CONTEST CLUB FINLAND	74	51,787,861
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	56	44,325,969
RUSSIAN CONTEST CLUB	85	42,471,592
HA-DX-CLUB	27	37,678,269
CLIPPERTON DX CLUB	30	37,326,445
BELARUS CONTEST CLUB	39	30,470,064
SP DX CLUB	96	29,315,889
BELOKRANJEC CONTEST CLUB	12	22,707,048
LATVIAN CONTEST CLUB	36	17,801,301
RIO DX GROUP	75	17,606,366
SOUTH URAL CONTEST CLUB	20	16,204,374
MARITIME CONTEST CLUB	15	15,396,895
LA CONTEST CLUB	14	15,065,819
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	26	14,773,140
TARTU CONTEST TEAM	4	14,482,932
VK CONTEST CLUB	20	14,103,497
URAL CONTEST GROUP	28	13,500,630
ARIPA DX TEAM	10	13,429,103
ORCA DX AND CONTEST CLUB	36	12,976,838
CONTEST CLUB SERBIA	86	12,130,259
CHILTERN DX CLUB	46	10,530,540
CONTEST GROUP DU QUEBEC	12	9,342,694
WEY VALLEY AMATEUR RADIO GROUP	4	8,409,819
VU CONTEST GROUP	26	7,932,191
ANTWERP CONTEST CLUB	4	7,803,745
SIAM DX GROUP	13	7,595,316
RUSSIAN CW CLUB	69	7,581,379
CE CONTEST GROUP	8	7,396,267
YOKOHAMA DX CLUB	6	6,542,007
UA2 CONTEST CLUB	19	6,417,735
GMDX GROUP	17	6,251,992
RIIHIMAEN KOLMOSET	6	6,041,161
599 CONTEST CLUB	13	5,454,938
YO DX CLUB	32	5,183,380
LITHUANIAN CONTEST GROUP	6	4,965,355
THRACIAN ROSE CLUB	44	4,684,850
UNIO RADIOAFICIONATS VALLES ORIENTAL	7	4,300,809
GUARA DX GROUP	24	4,192,350
WEST SERBIA CONTEST CLUB	13	4,111,466
DANISH DX GROUP	36	3,898,406
GIPANIS CONTEST GROUP	12	3,826,838
TERESINA DX GROUP	5	3,791,001
SAUDI CONTEST GROUP	6	3,785,772
ALRS ST PETERSBURG	23	3,629,333
YB LAND DX CLUB	83	3,505,659
RADIO CLUB VENEZOLANO CARACAS	15	3,446,697
GRIMSBY AMATEUR RADIO SOCIETY	8	3,420,278
THAILAND DX ASSOCIATION	5	3,414,041
THREE A'S CONTEST GROUP	7	3,333,479
CATALONIA CONTEST CLUB	5	3,086,062
NOVOKUZNETSK RADIO CLUB	14	3,019,206
BOSNIA AND HERZEGOVINA CONTEST CLUB	17	2,841,278
IVANOVO DX CLUB	7	2,763,957
SOUTH GERMAN DX GROUP	7	2,690,756
RU-QRP CLUB	17	2,388,749
SOUTHERN OSAKA CONTEST CLUB	10	2,320,706
NORDX CLUB	10	2,293,955
RADIOSPORT MANITOBA	8	2,130,883
CDR GROUP	63	2,092,946
VRHNIKA CONTESTERS	10	1,914,576
SASKATCHEWAN CONTEST CLUB	4	1,887,765
WORLD WIDE YOUNG CONTESTERS	12	1,770,228
ARCK	15	1,703,890
SHEFFORD AND DISTRICT AMATEUR RADIO SOCIETY	4	1,696,059
GERMAN DX FOUNDATION	13	1,609,424
IRKUTSK RADIO CLUB	7	1,542,058
CSTA SUCEAVA	7	1,542,015
STAVROPOL REGION CONTEST CLUB	5	1,437,263

That's a lot of assisted entrants. Is Unassisted a dying category?

However, for Low Power entrants, only 36.8% of European stations and 45.2% of North American stations went the Assisted route. That is a huge difference when compared to High Power, but one that is not immediately or easily understood or even expected.

A Closer Look at Europe, SOAB High Power

It seems like Zones 14 and 15 are more like North America in terms of the percent claiming to be in the Assisted category.

# of logs	Category	Zone 14	Zone 15	Zone 16
	AB_H_A	304	166	129
	AB_H_U	119	73	86
	Grand Total	423	239	215
	% assisted	71.9%	69.5%	60.0%

UNION FRANCAISE DES TELEGRAPHISTES.....	5.....	1,396,603
DONBASS CONTEST CLUB.....	8.....	1,390,238
CSM CRAIOVA.....	7.....	1,367,871
ARKTIKA.....	11.....	1,180,602
KIROVOGRAD REGION RADIO CLUB.....	6.....	1,127,475
BLACK SEA CONTEST CLUB.....	22.....	1,109,151
LKK LVIV SHORTWAVE CLUB.....	9.....	1,021,358
SP-CW-C.....	7.....	1,012,609
SK6AW HISINGENS RADIOKLUBB.....	9.....	940,622
THE AKITA DX ASSOCIATION.....	5.....	932,353
KRIVBASS.....	6.....	849,393
YYP CLUB.....	10.....	813,229
MAUI AMATEUR RADIO CLUB.....	4.....	780,731
CHILEAN PACIFIC DX GROUP.....	15.....	741,632
SPEKTR.....	4.....	739,687
SK5AA VASTERAS RADIOKLUBB.....	11.....	729,656
OMSK RADIO CLUB.....	7.....	720,612
HAROS RADIO CLUB.....	5.....	660,242
LIPETSK RADIO CLUB.....	11.....	658,790
KEYMEN'S CLUB OF JAPAN.....	34.....	588,328
TALLINN POLYTECHNIC SCHOOL RADIO CLUB.....	5.....	570,073
VOLYN CONTEST GROUP.....	8.....	555,685
DOMODEDOVO.....	5.....	554,229
CS PETROLUL PLOIESTI.....	12.....	536,427
CSU PITESTI.....	5.....	533,282
ADMIRA ARAD.....	5.....	513,696
UR-QRP-CLUB.....	11.....	485,434
NORFOLK AMATEUR RADIO CLUB.....	12.....	466,821
FALKOPINGS RADIOCLUB.....	4.....	435,001
UPPSALA RADIOKLUBB.....	4.....	421,507
AGB ACTIVITY GROUP OF BELARUS.....	8.....	408,795
RADIO CLUB KVARNER RIJEKA.....	14.....	394,621
CLUB DE RADIO EXPERIMENTADORES DE OCCIDENTE.....	5.....	392,584
SAYAN DX CLUB.....	6.....	357,395
SARATOVSKAYA OBLAST RADIO CLUB.....	5.....	341,847
LA-DX-GROUP.....	9.....	340,701
MEDITERRANEO DX CLUB.....	11.....	316,071
VLADIMIR CONTEST GROUP.....	9.....	301,826
NOORD OOST LIMBURG.....	4.....	288,934
PAPUA CONTEST CLUB.....	12.....	285,269
CSTA BUCURESTI.....	4.....	282,956
CSM BAIA MARE.....	4.....	280,395
TOP OF EUROPE CONTESTERS.....	5.....	264,933
SAMARA RADIO CLUB.....	4.....	256,322
MOSCOW RADIO CLUB.....	7.....	254,919
MUMBAI AMATEUR RADIO INSTITUTE.....	6.....	232,322
TORBAY ARS.....	5.....	223,605
CABREUVADX.....	10.....	199,790
ORARI LOKAL BOGOR.....	7.....	196,490
SK2AT FORENINGEN UMEA RADIOAMATORER.....	6.....	195,435
SINGLE FIGHTER DX GROUP.....	22.....	191,715
PETERBOROUGH AMATEUR RADIO CLUB.....	7.....	188,852
TALL TREES CONTEST GROUP.....	5.....	166,972
VERENIGING VAN RADIO ZEND AMATEURS.....	7.....	159,265
SHARP HAM CLUB.....	5.....	148,545
OBNINSK QRU CLUB.....	5.....	145,757
KALININGRAD RADIO CLUB.....	7.....	136,294
CSM TIMISOARA.....	6.....	117,763
CS SILVER FOX DEVA.....	4.....	115,962
BANDUNG CONTEST CLUB.....	5.....	109,922
BASHKORTOSTAN DX CLUB.....	4.....	107,266
TDR.....	6.....	87,521
OSTROW AMATEUR RADIO CLUB SP3POW.....	4.....	82,686
CSM CLUJ-NAPOCA.....	4.....	76,276
GQRP.....	4.....	74,881
VERON TWENTE.....	4.....	65,908
SOUTHERN THAILAND DX CLUB.....	4.....	59,274
CS CEAHLAUL PIATRA NEAMT.....	4.....	54,983
RTTY CONTESTERS OF JAPAN.....	6.....	47,422
CWJF GROUP.....	4.....	44,669
599 DX GROUP.....	7.....	23,103
WATERLAND.....	4.....	17,758
ORARI LOKAL KEDIRI.....	16.....	12,263
SOUTH CELEBES CONTEST CLUB.....	4.....	7,737



Dave, VE9CB, operated as 6W1SU during the 2017 CQWW DX CW Contest. (Photo by VE3REV)

TOP SCORES IN VERY ACTIVE ZONES

Zone 3		Zone 15	
K6XX.....	3,043,755	IO2X.....	3,851,064
WJ9B.....	2,012,297	LY5R.....	3,609,738
K7RL.....	1,495,660	OM7RU.....	2,729,010
N7ZG.....	1,369,656	HG3R.....	2,665,608
VA7ST.....	918,896	LY4T.....	1,755,535
Zone 4		Zone 16	
XL3T.....	5,544,448	RT9S.....	2,631,545
W9RE.....	4,128,208	R8WF.....	1,711,292
WXØB.....	4,067,136	RU3UR.....	1,627,686
KØEJ.....	3,118,027	R3XA.....	1,619,488
N5AW.....	2,941,517	EV1R.....	1,371,084
Zone 5		Zone 20	
VY2TT.....	7,503,754	C4W.....	7,075,188
N5DX.....	6,752,004	*4X6FR.....	3,775,304
W1KM.....	6,307,136	4Z5LY.....	2,351,004
NR3X.....	5,954,468	YØ9HP.....	2,346,239
K1VR.....	4,551,840	*RAØLQ/ MM/MM.....	1,036,042
Zone 14		Zone 25	
CR6K.....	8,391,489	JH4UYB.....	3,955,874
MØDXR.....	3,628,140	JE6RPM.....	3,344,796
G6XX.....	2,072,775	*JI1RXQ.....	1,205,456
TM6X.....	1,988,492	*JA1BJI.....	1,141,296
GM2V.....	1,845,705	DS4EOI.....	1,125,984

*Low Power

2017 CQWW DX CW TOP SCORES

<p>WORLD SINGLE OPERATOR HIGH POWER All Band</p> <p>CR300 14,307,519 TI7W 13,971,818 ZF2MJ 11,766,294 CR6K 8,391,489 VY2TT 7,503,754 VE2IM 7,256,433 C4W 7,075,188 NSDX 6,752,004 W1KM 6,307,136 NR3X 5,954,468</p> <p>28 MHz</p> <p>PP5FB 152,048 VK4KW 120,960 9M8YY 58,446</p> <p>21 MHz</p> <p>PJ4A 1,275,464 CR2M 751,024 CT9/OM3RM 666,652</p> <p>14 MHz</p> <p>YW4D 1,479,384 CT9/OM3GI 1,440,600 UP2L 1,127,668</p> <p>7 MHz</p> <p>CT9/OM3BH 1,632,453 FY5KE 1,509,768 EA9/EA5HPX 1,291,492</p> <p>3.5 MHz</p> <p>UN4L 737,402 RW2F 585,450 E70T 476,397</p> <p>1.8 MHz</p> <p>S58MU 210,120 VE3ZI 142,044 EU4E 109,185</p> <p>LOW POWER All Band</p> <p>V26K 9,932,013 3V8SS 4,521,960 YN2CC 4,054,024 4X6FR 3,775,304 7X2ARA 3,202,644 T05W 2,368,932 GU3HFN 1,695,000 VE3VN 1,640,628 N4TZ 1,599,941 EA8CN 1,441,888</p> <p>28 MHz</p> <p>LU5DF 31,284 LU6DO 23,908 HP1RIS 5,516</p> <p>21 MHz</p> <p>S79K 528,891 VR20EH 287,920 LU40C 207,844</p>	<p>14 MHz</p> <p>5X1NH 554,484 UN6LN 297,216 PY2NY 242,403</p> <p>7 MHz</p> <p>HA3DX 399,816 EA6SX 393,280 YU1RA 363,902</p> <p>3.5 MHz</p> <p>4K6FO 181,524 LY2BMX 178,640 EU8U 159,885</p> <p>1.8 MHz</p> <p>EA8CMX (OH2BYS) 67,137 SM6CNN 48,750 HB9CPS 31,304</p> <p>QRP All Band</p> <p>NP4Z 2,339,444 HA1AG 902,939 KR2Q 573,190 HG6C 456,190 N1IX 385,575 JR4DAH 361,688 DL8TG 297,570 E77Y 293,965 G4DBW 255,530 UR5FE0 253,356</p> <p>28 MHz</p> <p>R7TU 437 OK1LV 416 RA3XX 396</p> <p>21 MHz</p> <p>IZ3NVR 56,494 JQ1NGT 35,025 LZ2RS 33,147</p> <p>14 MHz</p> <p>TA3AER 48,720 G3L 44,793 9A2EY 36,777</p> <p>7 MHz</p> <p>4L7AA 88,816 OK2VWB 74,774 DR3W 70,584</p> <p>3.5 MHz</p> <p>ON3DI 37,895 SP4INT 34,524 DF5RF 24,264</p> <p>1.8 MHz</p> <p>HA5NB 20,247 S53AR 17,496 UA3DJG 8,140</p> <p>ASSISTED HIGH POWER All Band</p> <p>DL6FBL 7,996,065 K1ZZ 6,848,032</p>	<p>ZF9CW 6,727,636 EF2A 6,694,776 SN7Q 6,530,172 P40C 6,492,378 VA2WA 6,253,776 K3WW 6,145,752 S59ABC 5,568,576 KV2K 5,289,900</p> <p>28 MHz</p> <p>LW8DQ 102,312 LU7HN 84,357 N6SS 9,890</p> <p>21 MHz</p> <p>CW4MAX 1,408,144 PY2KJ 726,800 PP5BI 509,292</p> <p>14 MHz</p> <p>KH7B 1,184,000 S57AW 1,022,784 GW5R 795,684</p> <p>7 MHz</p> <p>UP0L 1,363,654 DR1D 1,224,990 SJ2W 1,081,860</p> <p>3.5 MHz</p> <p>OM0M 595,826 OK8WW 580,727 YL3CW 544,515</p> <p>1.8 MHz</p> <p>HA8A 292,678 RY9C 263,783 NP2J 210,400</p> <p>ASSISTED LOW POWER All Band</p> <p>P40W 6,746,220 VE3RZ/VP9 3,566,624 UZ3A 2,960,813 EA5WU 2,433,209 IZ4DLR 2,154,584 SO9M 2,144,274 OR2F 1,982,125 UT4LW 1,970,350 KS1J 1,852,668 SN70 1,833,975</p> <p>28 MHz</p> <p>ZW1CML 20,205 PY3KN 13,735 JS6RTJ 4,716</p> <p>21 MHz</p> <p>SU9JG 398,970 T01A 303,129 Y07FB 155,530</p> <p>14 MHz</p> <p>FY5FY 1,354,704 CN8KD 674,938 XR6F 545,670</p>	<p>7 MHz</p> <p>CT9/OK6RA 630,189 YT4T 573,705 UA9W 418,392</p> <p>3.5 MHz</p> <p>HG0R 243,032 UK9AA 206,424 S56M 200,396</p> <p>1.8 MHz</p> <p>E74R 96,657 SN2K 71,526 YT8A 65,520</p> <p>ASSISTED QRP All Band</p> <p>DM2M 1,272,930 EE3X 916,254 S50XX 835,911 RT4W 616,998 IZ8JFL 492,360 RD9D 374,444 YU1LM/QRP 277,242 UT3EK 241,647 K8ZT 214,064 HA5BA 210,152</p> <p>28 MHz</p> <p>CE30P 2,688 BG7BDB/QRP 2,325</p> <p>21 MHz</p> <p>HG3IPA 21,515 BG1REN 15,624 UT3WS 8,372</p> <p>14 MHz</p> <p>E74Y 121,683 GW4J 76,896 JM1NKT 72,000</p> <p>7 MHz</p> <p>YU0W 117,856 OK8DD 80,630 LY5G 39,220</p> <p>3.5 MHz</p> <p>OL4W 98,616 OK1QM 74,760 DL1EFW 56,772</p> <p>1.8 MHz</p> <p>E76C 45,432 EU1AA 17,331 LY20U 12,432</p> <p>MULTI-OP SINGLE TRANSMITTER High Power</p> <p>EF8R 29,629,212 CN2AA 28,714,842 ED8X 26,711,120 P33W 25,041,608 IR4M 13,076,100 OM7M 12,912,540</p> <p>PS2T 12,634,268 RM9A 12,531,240 IR4X 12,258,610 TM6M 12,045,348</p> <p>Low Power</p> <p>9G5W 7,748,569 CT9/R7KW 6,625,150 VP5M 6,082,260 PS0F 4,265,408 IR6T 4,213,300 OE2S 4,031,256 SW9AA 3,238,376 N4WW 2,659,180 LY4L 2,219,504 W3LL 2,201,295</p> <p>MULTI-OP TWO TRANSMITTER</p> <p>CR3W 28,002,455 P40L 24,934,066 V47T 22,878,720 CN2R 22,369,634 PZ5V 18,950,800 TK0C 17,583,984 6Y0W 17,009,298 PJ4Y 16,989,720 PX2A 13,958,760 LZ5R 13,579,821</p> <p>MULTI-OP MULTI-TRANSMITTER</p> <p>PJ2T 26,685,104 9A1A 18,629,772 W3LPL 17,014,269 K3LR 17,009,370 M6T 16,999,047 KH6J 16,711,728 YT5A 16,195,575 A44A 15,376,248 DF0HQ 14,366,205 LZ9W 14,355,895</p> <p>ROOKIE High Power</p> <p>A61EK 2,276,085 YU3EEA 1,332,186 LZ4AW 600,152 YC2VOC 121,776 OK3TM 42,706 WJ6J 11,534 VE3BXG 2,142</p> <p>Low Power</p> <p>K8PJK 89,433 K4LPQ 53,992 PY2FRQ 48,789 R1BCO 48,140 R4WBF 44,042 K5TMT 43,596 IU1GNA 39,319 KE8EAS 37,576 CM8NMN 37,037 PU4GOD 34,444</p> <p>CLASSIC High Power</p> <p>A45XR 3,133,347</p> <p>KQ2M 2,873,110 HG3R 2,665,608 RT9S 2,631,545 3B9HA 2,291,720 W4CB 2,014,584 TM6X 1,988,492 VE9AA 1,914,770 CT3KV 1,913,452 W1WEF 1,837,992</p> <p>Low Power</p> <p>EA8CN 1,441,888 RU9AC 1,403,822 K1BX 1,324,320 N8II 1,234,542 YV8AD 1,142,136 V34AO 1,000,820 DK9IP 992,886 K1HT 739,256 XE1IM 711,900 OLSY 683,992</p>
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UNITED STATES SINGLE OPERATOR HIGH POWER All Band

N5DX 6,752,004	W1KM 6,307,136
NR3X 5,954,468	K1VR 4,551,840
NC1I 4,175,360	

28 MHz

K4WI 3,528	W2RR 1,740
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21 MHz

K3RV 379,454	KU2M 340,515
K4OAO 312,297	

14 MHz

N2MF 795,906	N5CR 289,674
W0EWD 280,686	

7 MHz

W7WA 485,184	N1RR 368,151
K8MFO 338,551	

3.5 MHz

W1MK 351,168	W3BGN 128,260
W05K 34,860	

1.8 MHz

K4PI 30,338	K1WHS 18,112
W2VO 15,960	

LOW POWER All Band

N4TZ 1,599,941	K1BX 1,324,320
N8II 1,234,542	

One more table. Only North America favors High Power over Low Power in the SOAB grouping. Or maybe the rest of the world uses a different definition of Low Power as compared to North Americans (The CQWW rules specify 100 watts as the maximum output for Low Power). For the record, SOAB here excludes QRP entries because "n" is too small compared to HP and LP across all continents.

What About Top Scorers: Assisted Vs. Not Assisted

For many years (decades?), contesters have debated the merits of Assisted versus Not Assisted. It was common to read that "Not assisted always beats Assisted." Is that still true?

SOAB entries	AF	AS	EU	NA	OC	SA	Grand Total
HP	35.3%	40.1%	37.0%	54.5%	46.6%	33.3%	43.1%
LP	64.7%	59.9%	63.0%	45.5%	53.4%	66.7%	56.9%

In the U.S. for SOABHP, the top scores are K1ZZ (assisted) with a score of 6.848 million and N5DX (not assisted) with a score of 6.752 million. Six of the top 10 scores in the SOABHP category entered as Assisted.

In the U.S. for SOABLP, the top scores are KS1J (assisted) with 1.852 million and N4TZ (not assisted) with 1.599 million. And again, six of the top 10 scores in that category entered as Assisted.

In Europe SOABHP, the top score is from CR6K (not assisted) with 8.391

million, followed by DL6FLB (assisted) with 7.996 million. Nine of the top 10 scores in that category entered as Assisted.

In Europe SOABLP, the top scores are from UZ3A (assisted) with 2.960 million and GU3HFN (not assisted) with 1.695 million. And again, nine of the top 10 entered as Assisted.

In Europe, SOABQRP, the top scorers were DM2M (assisted) with 1.272 million and HA1AG (not assisted) with 902,000. Six of the top 10 European QRPers entered as Assisted.

K1DG 1,174,960	14 MHz	N7DD 415,000	7 MHz	N3CZ 8,694
K5KU 916,608		KØLUZ 393,586		KØ3T 6,840
		W9ILY 307,664		WB40MM 4,848
21 MHz			3.5 MHz	
WB4TDH 100,812		7 MHz		K1SX 5,699
K5KJ 65,670		K7NJ 331,500		
KJ6MBW 41,998		W2TA 144,507		MULTI-OP
		WQ6X 106,454		SINGLE TRANSMITTER
14 MHz				High Power
K1VJSJ 142,842		3.5 MHz		W3UA 7,592,900
W2AW (N2GM) 132,832		W3NO 159,324		K5TR 5,973,850
W7UT 78,692		NA2AA 108,706		N1MM 5,349,103
		K2RR 81,198		K2QMF 4,794,517
7 MHz				WB9Z 4,553,940
W3EF 69,185		1.8 MHz		Low Power
W2EG 60,028		KVØØ 25,920		N4WW 2,659,180
W1NN 54,035		K5KC 17,068		W3LL 2,201,295
		W8UVZ 9,387		W3ZGD 698,717
3.5 MHz				WØDLE 574,126
K9UIY 20,306		ASSISTED		N1SOH 312,768
W2TF 7,644		LOW POWER		
		All Band		MULTI-OP
1.8 MHz		KS1J 1,852,668		TWO TRANSMITTER
WD8DSB 1,848		W1NT 1,635,634		KC1XX 13,337,612
		W3KB 1,414,512		W2FU 10,420,837
QRP		N4XL 1,304,595		K9CT 8,314,170
All Band		KG4V (N1EN) 1,064,740		K8AZ 7,778,439
KR2Q 573,190				K2LE 7,650,447
N1IX 385,575		21 MHz		
W6JTI 250,470		N3UA 53,088		MULTI-OP
K2YGM 232,320		W2GB 26,700		MULTI-TRANSMITTER
K8CN 184,824		KØVB 22,638		W3LPL 17,014,269
				K3LR 17,009,370
21 MHz				NR4M 11,299,552
WA6FGV 10,047		14 MHz		NR5M 9,866,080
KQ2RP 3,654		N4IJ 228,906		K1TTT 9,211,365
KN1H 1,856		WA1S 186,329		
		W5ZO 135,516		ROOKIE
14 MHz				High Power
KØ1P 3,552		7 MHz		WJ6J 11,534
WD6DX 2,300		K7SCX 119,908		Low Power
W9YA 2,244		AB4B 88,308		K8PJK 89,433
		KK4XX 60,095		K4LPQ 53,992
7 MHz				K5TMT 43,596
KE4KVC 936		3.5 MHz		KE8EAS 37,576
W6MZ 144		N9LJX 1,770		N1VH 30,975
				CLASSIC
1.8 MHz		1.8 MHz		High Power
W2MF 2,664		W7RH 3,968		KØ2M 2,873,110
		WA1FCN 3,392		W4CB 2,014,584
		NA5Q 1,891		W1WEF 1,837,992
ASSISTED				AD5A 1,583,462
HIGH POWER		ASSISTED		K7RL 1,495,660
All Band		QRP		Low Power
K1ZZ 6,848,032		All Band		K1BX 1,324,320
K3WW 6,145,752		K8ZT 214,064		N8II 1,234,542
KV2K 5,289,900		KU1N 97,641		K1HT 739,256
N3RS 5,234,908		WC4J 1,833		W1JQ 480,498
N3RD 4,659,820				N2AN (WC4E) 316,757
		21 MHz		
28 MHz		NØUR 7,567		
N6SS 9,890				
		14 MHz		
21 MHz		K2GMY 12,116		
N4BP 245,817		WA7LNW 5,406		
K2UR 76,110		NX2PX 1,274		
K5QR 65,280				

Golden Logs

Having no score reduction puts you into the Golden Log category. Here are the top five in the world ranked by total number of QSOs made for Assisted and Not Assisted. As you see, a Golden Log is not easy to do.

Call	Category	Score Reduction	Final Qs
SE6N	AB_L_A	0.0%	579
K2EP	AB_H_A	0.0%	528
N1MD	AB_H_A	0.0%	514
UN4PD	AB_L_A	0.0%	489
W3NO	80M_H_A	0.0%	425
UA4WJ	AB_L_U	0.0%	491
UA9FGJ	AB_L_U	0.0%	417
KØCF	AB_H_U	0.0%	271
SM6CMU	AB_H_U	0.0%	292
N6MU	AB_L_U	0.0%	282



The team members putting in some hard work at OZ5E during the 2017 CQWW DX CW Contest. The team was comprised of (from left to right): OZ1LCG, OZ1FJB, DJ6GI, OZ1IVA. (Photo by OZ1ADL)

Quality Beats Quantity

Many entrants were able to improve their world ranking because their logs were more accurate than their closest competitors. In other words, these entrants "came from behind." They had an initial rank of X using their RAW score, but they ended up in position X-1 when ranked by the final score. On a world score basis, 3,348 entrants improved their final ranking within their category due to a more accurate log. Amazingly, that is just one more than on SSB. Twenty-eight (28) of them were in the World Top 5 by their category of entry. Here is the listing of these accurate entrants. And even more impressive are those who are repeats from SSB: K3LR, OK2VWB, and JM1NXT. Good job!

Call	Category	World Rank	Final Score
V47T	M2	3	22,878,720
K3LR	MM	4	17,009,370
K1ZZ	AB_H_A	2	6,848,032
ZF9CW	AB_H_A	3	6,727,636
SN7Q	AB_H_A	5	6,530,172
YW4D	20M_H_U	1	1,479,384
SJ2W	40M_H_A	3	1,081,860
US1Q	40M_H_A	4	1,077,960
GW5R	20M_H_A	3	795,684
VE3VEE	20M_H_A	5	732,260
UA9W	40M_L_A	3	418,392
UX2X	80M_H_U	4	418,278
EA1WX	20M_L_A	5	362,356
VK3MI	40M_L_U	5	260,490
S56M	80M_L_A	3	200,396
EU2EU	80M_L_A	5	180,316
EI9E	160M_H_U	4	95,175
OK2VWB	40M_Q_U	2	74,774
JM1NKT	20M_Q_A	3	72,000
RU3TJ	40M_Q_U	4	66,155
9A2EY	20M_Q_U	3	36,777
HA4FY	40M_Q_A	4	33,796
OK2HIJ	20M_Q_U	5	33,152
RZ3AMW	160M_L_U	5	18,816
PD1DX	10M_L_A	4	3,441
RA2FB	160M_Q_U	4	2,688
W2MF	160M_QU	5	2,664
UT2AB	10M_Q_U	4	32

2017 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
CR300	401/12/49	1546/25/81	2001/27/89	2524/32/101	2437/27/83	107/6/31
TI7W	332/16/47	1634/27/90	2835/32/109	2832/31/104	2144/25/92	297/13/16
ZF2MJ	392/14/46	1343/25/81	2385/29/102	2692/31/97	1992/29/103	90/12/17
*V26K	275/14/39	1062/19/79	2202/29/102	2305/31/96	1712/26/93	28/6/9
CR6K	428/14/59	1215/23/86	2003/35/109	2405/31/110	1301/30/101	29/10/21

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
N5DX	130/13/48	492/20/85	1698/30/117	1319/32/104	612/26/93	18/8/12
W1KM	149/13/58	817/25/84	1054/26/98	1569/25/99	585/19/82	20/7/8
NR3X	224/12/59	566/17/70	1380/29/113	1367/26/100	648/21/96	20/8/8
K1VR	63/11/40	289/17/68	1088/30/105	1218/31/102	499/23/83	10/6/6
NC1I	55/12/31	229/16/70	1033/32/108	1220/29/94	478/21/83	15/8/8

WORLD SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
DL6FBL	214/16/73	876/28/108	1438/38/143	1493/39/137	619/37/140	69/9/37
K1ZZ	60/12/38	544/24/110	1343/37/138	832/36/132	669/27/118	28/10/10
*P40W	180/16/41	514/21/86	981/29/111	1099/34/113	1040/28/104	176/16/21
ZF9CW	490/20/80	701/28/102	1005/36/130	897/34/118	1207/26/95	46/11/14
EF2A	244/16/70	612/24/96	1610/36/132	1640/36/122	876/32/108	82/11/28

USA SINGLE OPERATOR ASSISTED ALL BAND

Station	160	80	40	20	15	10
K1ZZ	60/12/38	544/24/110	1343/37/138	832/36/132	669/27/118	28/10/10
K3WW	96/13/59	320/22/92	832/30/121	1590/34/128	647/26/107	16/8/12
KV2K	73/18/66	255/27/112	665/38/144	878/36/144	629/30/128	29/10/17
N3RS	73/15/51	328/21/90	825/33/127	1115/34/127	520/25/108	22/9/12
N3RD	63/13/40	298/21/89	554/31/116	1156/35/129	584/27/117	36/12/19

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
EF8R	307/21/82	2026/32/129	2960/38/150	3129/40/151	2789/38/159	124/22/70
CM2AA	533/26/94	2046/34/129	3101/38/155	2946/40/156	2168/37/153	110/21/66
ED8X	317/23/86	1587/32/125	3144/38/151	2604/39/150	2550/37/156	85/20/75
P33W	536/24/90	1788/33/121	3134/38/155	2444/40/153	2027/39/152	75/17/54
IR4M	205/21/85	1291/34/125	2569/38/161	2056/39/149	1112/39/146	49/15/48

USA MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
W3UA	63/13/52	423/20/92	1380/37/137	1468/34/138	727/28/123	18/9/17
K5TR	51/18/49	262/28/107	1296/37/145	811/37/141	670/33/127	36/13/26
N1MM	51/13/46	432/21/91	808/32/121	1241/32/128	529/27/115	21/13/20
K2QMF	54/9/35	286/21/88	987/30/124	1232/33/124	378/25/107	9/6/9
WB9Z	86/18/58	247/22/92	486/35/136	1296/37/144	294/28/111	27/10/19

WORLD MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
CR3W	456/17/78	1840/31/117	3432/38/143	3228/38/142	2712/37/147	115/13/44
P40L	535/18/75	1681/28/107	3234/37/141	3092/36/125	2949/32/124	140/14/20
V47T	449/16/64	1442/29/109	3716/37/135	3420/36/134	3223/32/130	70/14/32
CM2R	551/12/56	1696/27/111	3104/37/136	2582/36/125	2754/35/131	50/15/28
PZ5V	275/14/59	941/23/88	2567/37/133	2967/37/137	2490/31/123	95/17/31

USA MULTI-OPERATOR TWO TRANSMITTER

Station	160	80	40	20	15	10
KC1XX	74/16/56	1213/28/118	2021/38/154	1999/38/149	990/29/132	35/15/21
W2FU	147/15/62	875/27/111	1249/37/140	1994/36/142	1002/30/122	27/11/16
K9CT	123/16/57	646/29/109	1011/36/138	1679/37/143	852/31/121	48/11/18
K8AZ	112/15/51	644/28/99	1087/35/129	1471/36/139	846/27/116	34/13/21
K2LE	83/15/46	695/26/105	1368/35/136	1351/34/133	606/27/117	49/13/20

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
PJ2T	897/23/86	1718/29/107	3388/35/136	3105/35/127	2585/33/127	457/19/39
9A1A	1605/23/92	2602/33/125	3269/37/156	2693/37/140	1491/39/153	433/18/64
W3LPL	419/17/80	1436/31/124	2195/38/148	2233/38/149	1457/32/139	164/15/32
K3LR	393/19/83	1390/32/127	2107/38/147	2507/39/153	1258/33/137	97/15/32
M6T	1314/18/81	2426/34/127	3455/38/157	2452/38/144	1371/37/147	366/18/58

USA MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
W3LPL	419/17/80	1436/31/124	2195/38/148	2233/38/149	1457/32/139	164/15/32
K3LR	393/19/83	1390/32/127	2107/38/147	2507/39/153	1258/33/137	97/15/32
NR4M	191/17/68	1056/25/111	1801/36/140	1798/36/136	933/29/119	78/13/22
NR5M	295/22/71	657/30/113	1904/37/144	1365/37/146	830/32/122	105/15/36
K1TTT	243/17/69	735/26/107	1233/35/131	1681/37/140	788/31/127	150/17/28

Top Ten Most Active

This verifies what you probably already know, but it's nice to see the numbers.

Top 10 Zones		Top 10 Countries	
Zone	# logs	PX	# logs
14	1,724	K	1,899
15	1,449	JA	800
16	1,063	DL	680
5	904	UA	669
25	818	UR	327
4	774	SP	278
3	392	I	272
20	273	UA9	228
17	142	OK	194
24	130	G	181

Time Study

As with SSB, most entrants do not operate anything close to the entire 48 hours of the contest. In fact only 2.36% operate for more than 40 hours. The table shown is for Single-Op All Band entries only. The median time spent contesting during the CW weekend was just 12.25 hours with 25% of entrants operating for less than 6.3 hours total. And 75% of all SOAB entrants operated for less than 20.9 hours. In general, Low Power ops in the SOAB categories operate roughly an hour less for the various metrics cited. So if you think about it, to achieve the median number of hours operated, you could operate 3 hours in the morning and 3 hours in the evening on both Saturday and Sunday. That's not a big

investment of time in order to share in the world-wide fun. Give it a try; get on, and send in your log. It only takes a few clicks to get it done.

Hours	# of Logs	% of All	cum %
0-5	978	18.03%	18.03%
5.1-10	1267	23.35%	41.38%
10.1-15	967	17.82%	59.21%
15.1-20	735	13.55%	72.76%
20.1-25	591	10.89%	83.65%
25.1-30	336	6.19%	89.84%
30.1-35	246	4.53%	94.38%
35.1-40	154	2.84%	97.22%
up to 41	23	0.42%	97.64%
up to 42	29	0.53%	98.18%
up to 43	18	0.33%	98.51%
up to 44	21	0.39%	98.89%
up to 45	15	0.28%	99.17%
up to 46	21	0.39%	99.56%
up to 47	8	0.15%	99.71%
up to 48	16	0.29%	100.00%

Border Control Report

On SSB, we found hundreds of entrants contesting outside of their permitted frequency range. We expected to find this among ITU R1 entrants on 40 meters, but were surprised to see so many U.S. contesters out of the band too. Certainly, on CW, there should not be much to find. But we were again surprised when we found U.S. participants operating out their band. We understand that anyone can make

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CR6K	428/14/59	1215/23/86	2003/35/109	2405/31/110	1301/30/101	29/10/21
I02X	177/9/42	649/13/56	1521/29/98	1037/28/76	875/27/76	43/8/24
M0DXR	332/9/44	980/16/68	1505/31/105	1202/29/87	405/24/69	45/7/21
LY5R	456/13/54	1088/25/94	882/36/116	1160/35/100	208/31/87	30/7/20
OM7RU	202/8/47	748/15/63	1118/30/99	729/33/93	204/27/65	32/7/23

EUROPE SINGLE OPERATOR ASSISTED ALL BAND

DL6FBL	214/16/73	876/28/108	1438/38/143	1493/39/137	619/37/140	69/9/37
EF2A	244/16/70	612/24/96	1610/36/132	1640/36/122	876/32/108	82/11/28
SN7Q	290/17/74	1276/31/113	1501/35/117	1248/38/123	316/35/114	29/10/25
S59ABC	148/16/66	489/26/100	1563/38/143	1007/34/122	527/39/118	46/9/25
S57AL	107/12/61	792/27/98	918/33/115	1045/37/124	398/38/128	27/6/22

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

IR4M	205/21/85	1291/34/125	2569/38/161	2056/39/149	1112/39/146	49/15/48
OM7M	256/24/93	1337/32/124	2785/38/160	2169/39/143	703/38/149	93/15/50
IR4X	202/23/88	1002/30/124	2570/38/161	1987/40/147	1066/38/153	79/16/52
TM6M	279/18/78	1068/29/118	2034/38/145	2200/39/145	1079/36/146	76/13/41
RT6A	533/20/86	1386/27/111	2489/37/157	1973/39/144	1024/36/143	99/18/48

EUROPE MULTI-OPERATOR TWO TRANSMITTER

TK0C	1150/18/75	2608/32/117	3946/38/146	3126/38/137	2049/35/129	100/11/40
LZ5R	627/19/78	1960/33/117	2778/38/151	2355/39/138	1505/39/151	151/18/46
ES9C	1262/30/92	2454/34/120	2893/38/155	2483/39/142	998/34/135	137/11/40
EC2DX	504/19/80	2052/33/127	2759/39/153	2199/39/142	1465/38/141	215/11/40
9A7A	553/18/80	1997/32/123	2441/37/154	2203/38/139	1342/38/146	68/14/47

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

9A1A	1605/23/92	2602/33/125	3269/37/156	2693/37/140	1491/39/153	433/18/64
M6T	1314/18/81	2426/34/127	3455/38/157	2452/38/144	1371/37/147	366/18/58
YT5A	1328/21/81	2409/32/120	3655/38/159	2447/39/144	1011/38/139	199/13/55
DF0HQ	1196/19/86	2203/30/113	3151/38/160	1930/39/148	872/37/140	255/18/57
LZ9W	1309/20/82	2377/34/122	3433/38/158	2180/40/142	952/38/137	170/18/52

a mistake or two and that is just an error. For QSOs that we found and confirmed that the entrant was out of the band (OOB), we just removed credit for that QSO. In other words, they wasted their time making that contact. If that was their only QSO for a particular multiplier (and OOB), then they lost the multiplier, too.

We were pretty lenient with how many OOB contacts could be made before real action was taken. But some guys had totally excessive OOB contacts and they earned a disqualification. These were General and Advanced Class U.S. entrants who were operating well into the Extra Class band segments. Several of them made over 90 OOB QSOs dur-



SV1DPJ and SV1CIB operate as SZ1A in MS/HP category.

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The team at ZM4T included (from left to right): Holger, ZL3IO, seated at rear; Jacky, ZL3CW; and Xenia, ZL4YL. (Photo by ZL2YL)

ing the contest. Please be careful — we only disqualify you; the FCC might take more stringent action.

Closing Remarks

We would like to thank the many contesters out there who continue to send us suggestions on where to look to identify potential unsportsmanlike behavior that they have observed or suspect. We check out every one of them; keep 'em coming! The CQWW Contest is the biggest and best contest going (always has been) and we appreciate everyone's input to keep it that way.

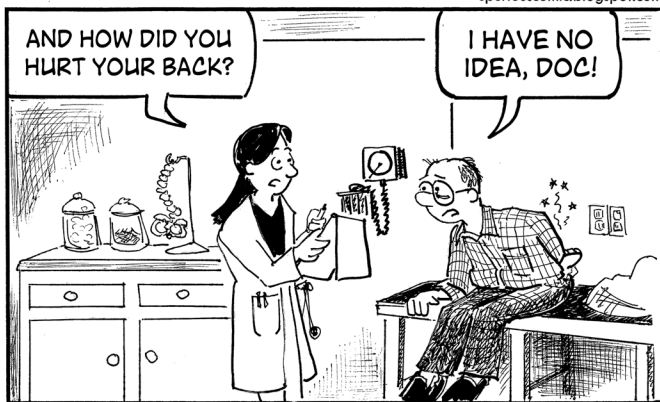
At this time, we enthusiastically look forward to seeing all of you again this year on October 27-28 on Phone and on November 24-25 on CW.

And finally, thank you to the members of the CQWW Contest Committee, whose help, suggestions, expertise, and even criticism, make the contest the huge success that it is. The committee members are:

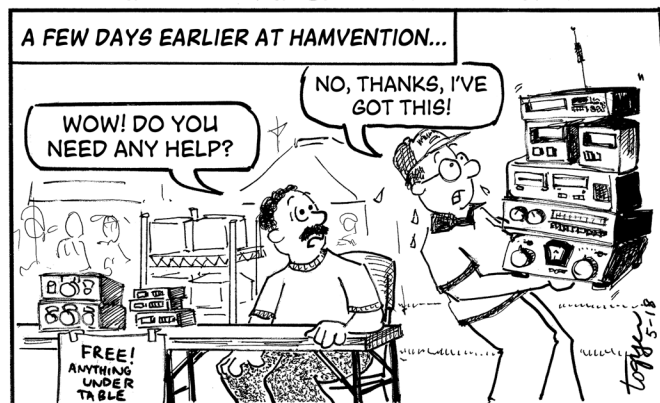
CT1BOH, José Nunes; EA4KD, Pedro Vadillo; ES5TV, Tonno Vahk; F6BEE, Jacques Saget; GØMTN, Lee Volante; HA1AG, Zoli Pitman; IK2QEI, Stefano Brioschi; JH5GHM, Katsuhiko (Don) Kondou; K1AR, John Dorr; K1DG, Doug Grant; K3LR, Tim Duffy; K3WW, Charles Fulp; K3ZO, Alfred A. (Fred) Laun, III; K5ZD, Randy Thompson; KR2Q, Doug Zwiebel; LU5DX, Martin Monsalvo; N8BJQ, Steve Bolia; OH6LI, Jukka Klemola; PA3AAV, Gert Meinen; RA3AUU, Igor (Harry) Booklan; S50A, Tine Brajnik; S50XX, Kristjan Kodermac; UA9CDC, Igor Sokolov; VE3EJ, John Sluymmer; VK2IA, Bernd Laenger; W4PA, Scott Robbins; W5OV, Bob Naumann; YO3JR, Andrei (Andy) Ruse; YU1EW, Zoran Mladenovic.

SPURIOUS SIGNALS

By Jason Togyer KB3CNM
 spuriouscomic.blogspot.com



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The team that comprised TO2SP were (from left to right): SP6JIU, SP6IXF, SP3CYY, and K1CC. (Photo by K1CC)