Results of the 2016 CQ World Wide RTTY DX Contest

BY ED MUNS,* WØYK

"CQWW RTTY Contest is the best." - DI 5HF

olar conditions at the trough between Cycles 24 and 25 still provided lots of fun in the 30th annual CQWW RTTY DX Contest. With the K-index at 1-2 and the SSN at 47-49, no disturbances interrupted the weekend. Depending on location, on one extreme some reported great conditions while at the other extreme, some had a difficult time making contacts. Nearly 1.2 million QSOs appeared in the 3,078 submitted logs. Over the past 3 years, QSOs have predictably shifted down from the high bands. Whereas in 2014 half of the QSOs were made on 10 and 15 meters, only 25% were made there in 2016. And most of the 10-meter propagation was north-south.

	2014	2015	2016
80	7%	7%	10%
40	16%	21%	24%
20	26%	36%	41%
15	3%	33%	23%
10	18%	4%	2%

Percentage of QSOs in each contest.

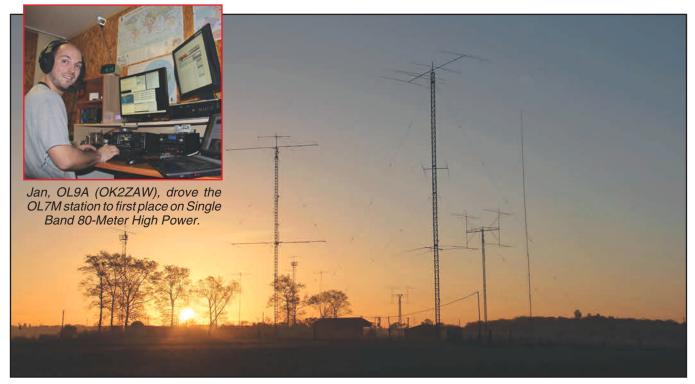
Email: w0yk@cqwwrtty.com

Activity decreased a bit and scores were down significantly for the most part. There were 162 different countries active and a number of stations worked over 100 of them on a single band. UR7GO led the way with 118 countries on 20 meters. 9A7Ø1A (9A1A) topped 15 meters with 111 while IQ6AN led 40 meters with 109. As a band, 20 meters had the highest single-band QSOs (1,945 by HK1T), highest number of zones (37 by both UA4M and UR7GO), highest countries (118 by UR7GO), and highest number of US/VE QTHs (59 by CR3W, 9A7Ø1A, W4AAA, and M9K). CW4MAX (CX2DK) dominated 10 meters with the high QSO count of 847, highest countries of 78 and highest US/VE QTHs of 41.

Videos made during contests are becoming more common. If you perform a Google search on "2016 CQWW RTTY video," you'll find videos by UX5UU, OZ1JTE, WXØV, KA6WKE, K3UK, KØCN, N7DR, and others.

Single-Op High Power (502 logs received)

Single-Op All Band High Power (358). Ed P49X (WØYK) won with 7.9 million points and Andy UB7K took second with 4 million points. His well-equipped antenna farm includes a stack of 6-element, 20-meter Yagis and 12 Beverages.



The OL7M antenna farm used by OL9A. (Photo by OK2ZAW)

Inside he uses a pair of K3/P3 radios with Win-Test. Darko, 9A5X; Velimir, K1LZ (K3JO); and Nick, EMØI, took the next three slots with 3.2 million, 3 million, and 2.9 million respectively.

Single-Op 80-Meter High Power (15): Daniel, HB9TOC, won with 81K. Single-Op 40-Meter High Power (27): Robby, DM6DX, won with 339K.

Single-Op 20-Meter High Power (51): Jahm, HK1T, won with 1 million, breaking the South America record that he holds.

Single-Op 15-Meter High Power (46): Alex, 4Z4AK (UT7DK), won with 640K. This was his first RTTY contest which he operated from the club station 4X4REM. Single-Op 10-Meter High Power (5): Marcelo, CW4MAX (CX2DK), won with 346K. Commemorative callsign CW4MAX was obtained at birth of his son, Maximo, in April 2014.

Single-Op Low Power (1,199 logs received)

Single-Op All Band Low Power (876): Wanderley, ZZ2T (PY2MNL), won with 3.1 million, followed by Alfredo, WP3C, with 2.8 million; Sulaiman, 7Z1SJ, with 2.2 million; Kazu, MJ5Z (JK3GAD), with 1.6 million; Dimitri, F4DSK with 1.5 million; Philippe, FG5LA, with 1.3 million; and Vitor, PY2NY, also with 1.3 million.

Single-Op 80-Meter Low Power (26): Tim, G8X (G4FJK), made 86K to win and set a new European record. This was accomplished from his modest station with an Inverted-V at 50 feet. Tim credits the favorable soil conditions under his antenna.

Single-Op 40-Meter Low Power (67): Cam, HK3TU, took first with 328K just 1,000 points away from the world record but setting a new South America record.

Single-Op 20-Meter Low Power (144): Simon, M9K (MØSIY), won with 476K; Francisco EC7WA was second with 426K, and Vlad UN6LN was third with 405K. All three exceeded the prior Europe record. Vlad lives in a 5-story apartment house with a tri-band Spider beam and uses a UR5EQF Log with his TS-590.

2016 CQWW RTTY TROPHY WINNERS AND DONORS

SINGLE OPERATOR HIGH POWER

North America: Dick Wilson, K6LRN & Carolyn Wilson, K6TKD. Won by: Velimir Deric, K1LZ (op: K3JO) USA: Kevin Rowett, K6TD. Won By: Jeff Stai, W7RN (op: WK6I) USA - 7th Call Area: Hank Lonberg, KR7X. Won by: Mark Reisenauer, KB7N

SINGLE OPERATOR LOW POWER

World: Grand Mesa Contesters of Colorado (GMCC). Won By: Wanderley Gomes, ZZ2T (op: PY2MNL) North America: Joseph Young, W6RLL. Won by: Alfredo Velez, WP3C USA: Kevin Rowett, K6TD. Won by: Matt Shelburne, W4GO

SINGLE OPERATOR ORP

World: Kevin der Kinderen, K4VD. Won By: Konstantin Vakhonin, RU4SS

SINGLE OPERATOR ASSISTED HIGH POWER

World: Mike Sims, K4GMH. Won by: Krzysztof Sobon, SN7Q (op: SP7GIQ) Asia: Lakshman "Lucky" Bijanki, VU2LBW. Won by: Hiroyuki Inaba, JS3CTQ

SINGLE OPERATOR ASSISTED LOW POWER

World: Jim Barron, WB5AAA. Won by: Andrius Ignotas, LY7Z North America: Wray Dudley, AB4SF. Won by: Doug Ferris, VA3DF

SINGLE OPERATOR SINGLE BAND

High Power 21 MHz World: Steve "Sid" Caesar, NHTC. Won by: Alexander Krayzman, 4Z4AK (op: UT7DK)
High Power 14 MHz North America: Patrick W. Soileau, ND5C. Won by: John Bayne, W5AAA (op: KK9A)
Assisted QRP 7 MHz World: Central Texas DX and Contest Club (CTDXCC). Won by: Robert Wood, VY2/W5AJ

MULTI-OPERATOR, SINGLE-TRANSMITTER HIGH POWER

World: PL259 Contest Club. Won by: I4DZ (ops: I4DZ, I4EWH, I4IFL, IK3QAR, IK4DCW, IK4HVR, IK4MGP, IZ4NIC, IU4DBX)

Europe: EA Contest Club. Won by: IQ1RY (ops: I1BEP, IK1SPR, IT9RGY, IW1ARB, IW1QN, IZ1LBG)
North America: Steve Jarrett, K4FJ. Won By: K1SFA (ops: K1MK, K1NZ, K1SFA, W1TO, @K1TTT)
USA: Jack Satterthwaite, K3KG. Won by: NV9L (ops: NV9L, W9IE, K9CS, WB9Z)

MULTI-OPERATOR, SINGLE-TRANSMITTER LOW POWER

North America: John Miller, K6MM. Won by: K3LR (ops: WW3S, ND8L, K3GP, NO3M, K8IV, N8NB, K3UA, K3LA, K3LR)

SINGLE OPERTATOR, MULTI-TWO

World: Ed Muns, WØYK. Won by: AN4ØØV (ops: EC2DX, EA2ABI, EA3HCJ, EA5BZ, EA5RM, EA7AJR, EA7KE) Europe: CT3 Madeira Contest Team/CR3A/CQ9K. Won by: IQ9UI (ops: IT9EQO, IV3YYK, IT9NJE, IT9CHU, IT9GSF, IT9AUG, IT9CJC, IT9WNU)

SINGLE OPERATOR, MULTI-TRANSMITTER

World: Mike Trowbridge, KA4RRU. Won by: CR3W (ops: DJ7JC, DJ9RR, DK4QT, DL6TK, DF6QV)
North America: Kevin Rowett, K6TD. Won by: NR4M (ops: NR4C, K4MI, Al4WU, K7SV, W6WLG, KM4NBM,
KA4RRU, N4DXS, NR4M, N7TY, N3AIU, KK4RTF, K2KW, KE2KW, N3ZV, K4GM, K4GMH, KS4Q, KM4CDQ)

CLUB COMPETITION

World: Potomac Valley Radio Club. Won by: Bavarian Contest Club North America: Northern California Contest Club. Won by: Potomac Valley Radio Club



Authorized Distributor for



Linear Amplifiers for the Americas

ExpertLinears.com 281-259-7877

Fully Automatic Solid State Amplifiers!

EHPERT 1K-FA * EHPERT 2K-FA EHPERT 1.3K-FA

THE MOST
TECHNOLOGICALLY
ADVANCED IN THE WORLD!



Built-in Power supply & Fully Automatic Antenna Tuner – Fully Remoteable

ELA Offers

SALES & EXPERT SERVICE

- ★ SPE Factory-trained with over 5 years repairing Expert Amps
- ★ Fast Turnaround
- ★ Over 50 years RF Experience
- ★ Over 60 years ham radio repair experience



EXPERT LINEARS AMERICA, LLC

PO Box 1224 Magnolia,TX 77353 Contact: Bob Hardie W5UQ Bob@ExpertLinears.com

www.cq-amateur-radio.com March 2017 • CQ • 17

TOP SCORES								
WORLD	14 MHz	ROOKIE	KE2D275,440	28 MHz	LY5G211,347			
SINGLE OPERATOR High Power all band	5C5W (CN8KD)585,900 WHØRU (JG7PSJ)437,250	SINGLE OPERATOR LOW POWER	WØJW228,512 N1API227,448	IK3ASM4,250 UY5ZZ1,102	DL3CB99,267 GØCER90,133			
P49X (WØYK)7,854,600 UB7K3,994,200	IK3TPP340,740	CR5U (CS7AJL)1,106,406 EW7BA281,232	W1ARY207,144	21 MHz	21 MHz			
9A5X	7 MHz YT2B236,205	SQ7SAU185,094 OH2EUU177,630	14 MHz W6HGF/442,120	EA1BD553,026 OK7W441,013	Y03DAC25,205 EC7KW17,697			
LY6A2,709,147	Y04NF219,645 LN7TTT (LA5LJA)141,360	IU3BSY137,922	KV4QS23,760 WK4Y11,088	I8JIT246,491	G5N (GØSBN)13,050			
28 MHz CW4MAX (CX2DK)345,873	3.5 MHz	CLASSIC Single Operator	7 MHz	14 MHz OK3RM701,220	14 MHz YU1RH38,640			
IK3ASM4,250 UY5ZZ1,102	ES3VI34,722 UA5F17,350	HIGH POWER UW1M1,952,960	WA1FCN/469,125 WX1S29,652	HA8JV621,074 SV2BFN544,754	OH2DP/QRP29,562 YO9AGN11,934			
21 MHz	AB1J12,730	FM/DD5ZZ1,579,552 GWØA1,381,272	WUØB/48,400	7 MHz	7 MHz			
4Z4AK (UT7DK)640,000 EA1BD553,026	SINGLE OPERATOR QRP ALL BAND	DJ80G1,164,855 DJ3NG956,862	3.5 MHz AB1J12,730	DM6DX338,752 US1Q (UW2QU)317,664	Y03CBZ41,760 S51DX38,664			
LTØH (LU3HY)522,504	RU4SS778,360 DL8TG307,520	CLASSIC	KI1U2,331	S51CK275,919	UX5UU36,560			
14 MHz HK1T1,004,369	K2YG237,120 LY5G211,347	SINGLE OPERATOR LOW POWER	SINGLE OPERATOR QRP ALL BAND	3.5 MHz OL9A252,164	3.5 MHz ON3DI46,336			
EA9LZ	DL3CB99,267	MW2I (G4FRE)992,593 ZB2TT692,899	K2YG237,120 W6QU (W8QZA)87,696	HB9TOC81,276 DJ3IW71,467	IK4UXA16,752 RU6YJ11,730			
	21 MHz PU2TRX48,307	KG4SS480,403 V31MA419,604	AB3WS84,738 K4VD48,720	HG1G71,264	SINGLE OPERATOR			
7 MHz DM6DX338,752	YO3DAC	RU9AC418,863	K2YGM29,388	LOW POWER ALL BAND MJ5Z (JK3GAD)1,585,175	QRP ASSISTED ALL BAND ON6NL472,052			
US1Q (UW2QU)317,664 S51CK275,919	14 MHz	UNITED STATES	21 MHz WD9FTZ/87,830	F4DSK	SBØA (SMØLPO)240,670 PE2K119,064			
3.5 MHz	TG9ANF117,260 YU1RH38,640	SINGLE OPERATOR High Power all band	N5IJE3,026	MW2I (G4FRE)	RA3DJA			
OL9A	OH2DP/QRP29,562	K1LZ (K3J0)1,959,318 W7RN (WK6I)1,494,409	KC7CM14,416					
DJ3IW71,467 HG1G71,264	7 MHz	ACØC876,736 W4UEF597,919	7 MHz	28 MHz F4BRV1,440	21 MHz UW6E (UR6EA)30,476			
LOW POWER ALL BAND	NP3RE	N7US/9594,384	K3TW/4720	21 MHz	OK1NG			
ZZ2T (PY2MNL)3,101,461 WP3C2,792,976	S51DX38,664	21 MHz N4BP202,383	SINGLE OPERATOR ORP ASSISTED ALL BAND	IZ7UMS51,600 IK1NEG45,472	14 MHz LZ8U (LZ2TU)45,109			
7Z1SJ2,171,196 MJ5Z (JK3GAD)1,585,175	3.5 MHz ON3DI46,336	KU2M	KB2HSH5,250 KC2WUF1,728	CT7AIX42,369 IO9R (IT9YAO)42,256	IØUZF			
F4DSK1,518,256	IK4UXA16,752 RU6YJ11,730	14 MHz	MULTI-OPERATOR	14 MHz	7 MHz			
28 MHz PU2WDX42,675	UT5UUV11,224	W4AAA (KK9A)510,114 W3RTY88,076	SINGLE TRANSMITTER High Power	M9K (MØSIY)475,580 EC7WA425,920	YT5TT7,844			
ZP6ARO	SINGLE OPERATOR QRP ASSISTED ALL BAND	WC7Q16,677	K1SFA3,066,079 NV9L1,651,968	Z36N313,038	3.5 MHz DK6SP62,480			
21 MHz	ON6NL472,052 VE3KI316,274	7 MHz	K3MJW1,437,864 WW4LL1,216,688	7 MHz LY5W233,289	IZ3NVR1,100			
HK6NVV	SBØA (SMØLPO)240,670 PE2K119,064	WK9U42,632 N1IXF25,630	WØLSD1,189,890	OK6K (OK5IM)157,065 IK8NBE109,782	MULTI-OPERATOR Single transmitter			
PP5NY161,805	ZP9MCE51,405	W9AKS9,990	MULTI-OPERATOR Single transmitter	3.5 MHz	HIGH POWER 14DZ6,762,744			
14 MHz M9K (MØSIY)475,580	28 MHz JH3DMQ630	3.5 MHz K4FJ13,975	LOW POWER K3LR2,188,059	G8X (G4FJK)85,570 HA3MY57,528	IQ1RY5,224,422 HG1S4,608,336			
EC7WA	21 MHz	KSØAA2,478	W3ZGD390,903 N3WZR89,914	OK2HBR54,480	HG7T4,359,856 SZ1A3,779,375			
7 MHz	UW6E (UR6EA)30,476 PY2MSR26,244	LOW POWER ALL BAND KG4SS480,403	KM4FRM39,300 WB9TFF22,081	ASSISTED High Power all band	MULTI-OPERATOR			
HK3TU328,434	A96A10,548	W4G0389,286 WRØU310,341	MULTI-OPERATOR	SN7Q (SP7GIQ)4,906,224	SINGLE TRANSMITTER LOW POWER			
YW5T (YV5JBI)320,352 LY5W233,289	14 MHz LZ8U (LZ2TU)45,109	N7IR294,321 WN6K283,560	TWO TRANSMITTER K9CT	\$57AW3,220,392 Y09HP3,103,680 AN4ØØT (EA1AKS)2,725,569	IT9BLB			
3.5 MHz	IØUZF34,365 IZ1ANK19,980	28 MHz	W1DX	RK4FD1,787,100	S5ØW2,252,906 IQ3RK2,167,083			
G8X (G4FJK)	7 MHz	K4WI945	K7JR824,100 WA3EKL666,816	21 MHz	CS5CRE1,787,991			
OK2HBR54,480	VY2/W5AJ (W5AJ)71,820 YT5TT7,844	21 MHz W1ZD/743,275	MULTI-OPERATOR	9A5D (9A7Z)	MULTI-OPERATOR TWO TRANSMITTER			
ASSISTED HIGH POWER ALL BAND	3.5 MHz	K7MY8,145 W9IIX8,100	MULTI-TRANSMITTER NR4M4,306,315	DH8BQA353,493	AN4ØØV			
SN7Q (SP7GIQ)4,906,224 AA3B3,400,320	DK6SP62,480	14 MHz	W4AAW	14 MHz DL1REM726,544	401ØA			
S57AW 3,220,392 Y09HP 3,103,680	MULTI-OPERATOR	K6GHA	ROOKIE	YT1X	DR5N4,899,756			
AN4ØØT (EA1AKS)2,725,569	SINGLE TRANSMITTER HIGH POWER	N8HP40,488	SINGLE OPERATOR HIGH POWER All Band	7 MHz	MULTI-OPERATOR Multi-transmitter			
28 MHz N6SS/73,224	I4DZ6,762,744 IQ1RY5,224,422	7 MHz WC1X/629,328	NB8F44,690	IN3VVK676,980 IQ6AN (IZ6TSA)643,848	9A7Ø1A9,753,186			
21 MHz	HG1S4,608,336	WB8JUI	W3RPH	YU7XX313,314	LX7I			
YV1YLY830,023 LU1FKR581,360	HG7T4,359,856 RWØA4,019,323	3.5 MHz	W3LES11,424	3.5 MHz 14AVG204,303	PI4CC4,323,594 LZ9W3,299,103			
JA1BPA436,045 9A5D (9A7Z)428,645	MULTI-OPERATOR Single transmitter	NA5NN (K2FF)4,680 NQ4K1,740	ROOKIE SINGLE OPERATOR	MD/DL7VEE171,200 IV3ZXQ162,301	ROOKIE			
14 MHz	LOW POWER	KK4HEG1,596	LOW POWER KK6NON93,738 AB3WS84,738	ASSISTED	SINGLE OPERATOR HIGH POWER ALL BAND			
DL1REM	DD1A	ASSISTED High Power all band	KG7GYI54,900	LOW POWER ALL BAND 3Z9M (SQ9UM)2,315,451	1U4CHE763,800 0K7L0254,200			
UR7G0665,247	EA8DED	AA3B3,400,320 W3FV1,599,631	KC1ANM25,500 K2MV23,650	LY7Z1,431,621 UT8EL1,331,616 RM3F (UA4LCQ)1,320,476	ROOKIE Single operator			
7 MHz IN3VVK676,980	K3LR	N3QE1,480,470 N7AT (K8IA)1,118,124	CLASSIC	RM3F (UA4LCQ)1,320,476 CT1BXT1,157,266	LOW POWER			
IQ6AN (IZ6TSA)643,848 P3X (UT5UDX)615,061	MULTI-OPERATOR	KØKX1,116,968	SINGLE OPERATOR HIGH POWER	21 MHz	CR5U (CS7AJL)1,106,406 EW7BA281,232			
3.5 MHz	TWO TRANSMITTER AN4ØØV7,864,506	28 MHz N6SS/73,224	N7US/9434,784 AC9KW293,196	IT9WDC118,231 ER10071,894	SQ7SAU			
I4AVG204,303 MD/DL7VEE171,200	IQ9UI7,670,016 401ØA7,492,513	21 MHz	W4GE287,616 W4CU250,173	ED1A (EA1AST)68,928	IU3BSY137,922			
IV3ZXQ162,301	S51A5,470,413 DR5N4,899,756	N6EE/2	WD5K195,480	14 MHz IK3TPP340,740	CLASSIC Single operator			
ASSISTED Low Power all Band	MULTI-OPERATOR	14 MHz	CLASSIC Single operator	IZ8EFD314,154 URØHQ284,142	HIGH POWER UW1M1,952,960			
3Z9M (SQ9UM)2,315,451 LY7Z1,431,621	MULTI-TRANSMITTER CR3W9,929,820	K90M370,574 W7ZR222,045	LOW POWER KG4SS480,403	7 MHz	GWØA1,381,272 DJ80G1,164,855			
UT8EL	9A7Ø1A9,753,186 LX7I6,868,495	W72R222,045 K70X188,710	WRØU267,800 N5KWN202,704	YT2B236,205 YO4NF219,645	DJ3NG956,862 IZØPMV754,680			
CT1BXT1,157,266	UA4M5,380,100 PI4CC4,323,594	7 MHz	KB3LIX182,748 KR2Q162,279	LN7TTT (LA5LJA)141,360	CLASSIC			
28 MHz LW5DW59,340	ROOKIE	W7RY/5	EUROPE	3.5 MHz ES3VI34,722	SINGLE OPERATOR LOW POWER			
PU3LTA4,240 YC9GWR1,950	SINGLE OPERATOR High Power all band	AG2T3,538	SINGLE OPERATOR HIGH POWER ALL BAND	UA5F	MW2I (G4FRE)992,593 ZB2TT692,899			
21 MHz	YV1YLY	3.5 MHz W6GJB280	UB7K	SINGLE OPERATOR	SP9H			
PY2KC157,276	0K7L0254,200 NB8F44,690	ASSISTED	EMØI (UT2IZ)2,916,950	QRP ALL BAND	RV3ZN398,274			
9V1XX	W3RPH40,216	LOW POWER ALL BAND W3FIZ386,568	LY6A	RU4SS				

Single-Op 15-Meter Low Power (76): Andres, HK6NVV, was first with 656K.

Single-Op 10-Meter Low Power (10): Celso, PU2WDX, won with 43K.

Single Operator QRP (104 logs received)

Single-Op All Band QRP Power (49): Konstantin, RU4SS, won with 778K and Dave, K2YG, was second with 354K.

Single-Op 80-Meter QRP (6): Pieter, ON3DI, won with 46K, which set a new world record.

Single-Op 40-Meter QRP (10): Raphael, NP3RE, won with 49K for a new North America record.

Single-Op 20-Meter QRP (20): Francisco, TG9ANF, won with 117K for a new North America record.

Single-Op 15-Meter QRP (19): Geraldo, PU2TRX, won with 48K for a new South America record.

Single-Op Assisted High Power (519 logs received)

Single-Op Assisted All Band High Power (392): Chris, SN7Q (SP7GIQ), won with 4.9 million. Bud, AA3B, was second with 4.7 million, Robert, S57AW, was third with 3.2 million, Alex, YO9HP, was fourth with 3.1 million, and Jose, AN4ØØT (EA1AKS), was fifth with 2.7 million.

Single-Op Assisted 80-Meter High Power (19): G. Franco, I4AVG, won with 204K, just shy of the world record. A retired school teacher, G. Franco splits his time between volunteer ambulance work and low-band contesting on 160 and 80 meters. He has also participated in the multi-ops of IG9A, II9P, and IR4X as the 80-meter operator.

Single-Op Assisted 40-Meter High Power (23): Paolo, IN3VVK, won with 677K for a new world record and Nicolo, IQ6AN (IZ6TSA), was second with 644K. Paolo is a devoted digital contester who set his goal to do his very best in this contest. To that end he temporarily added an additional 40-meter antenna fixed on the U.S. at his quiet mountaintop location over a mile above sea level.

Single-Op Assisted 20-Meter High Power (48): Frank, DL1REM, was first with 727K and Vladan, YT1X, was second with 704K, operating from the beautiful YT3X QTH. Alex,

TOP SCORES IN VERY ACTIVE ZONES

TOT GOOTLES IN VEHT MOTHE EGNES							
Zone 3	Zone 15						
W7RN (WK6I)1,494,409	9A5X3,206,709						
W7YAQ525,760	LY6A2,709,147						
VA7ST417,025	OG2P (OH2PM)1,987,704						
NN6XX340,572	IK2NCJ1,117,850						
*N7IR294,321	OK1DBE910,690						
,	,						
Zone 4	Zone 16						
ACØC876,736	UB7K3,994,200						
N7US/9594,384	EMØI (UT2IZ)2,916,950						
K6XT/Ø537,642	UW1M1,952,960						
AD5XD462,336	UV5U (UX1UA)1,835,928						
VE3TW424,473	*UT5EPP1,008,763						
· ·	, ,						
Zone 5	Zone 20						
K1LZ (K3JO)1,959,318	YO3VU576,180						
*VA2UP644,782	YO3GNF497,840						
VE2EBK630,084	*SV5/DL3DRN347,244						
W4UEF597,919	*YO6HSU287,964						
*KG4SS480,403	*YO8RFS277,500						
,	,						
Zone 14	Zone 25						
*MJ5Z (JK3GAD)1,585,175	JH4UTP850,459						
*F4DSK1,518,256							
GWØA1,381,272							
DJ8OG1,164,855							
*MW2I (G4FRE)992,593	JF10PL542,850						
	,						
	*Low Power						
Zone 14 *MJ5Z (JK3GAD)1,585,175 *F4DSK1,518,256 GWØA1,381,272 DJ8OG1,164,855	Zone 25 JH4UTP						

UR7GO, took third with 665K and is a retired professional shipboard radio officer for a Black Sea shipping company who now enjoys portable operations on various islands around the world.

Single-Op Assisted 15-Meter High Power (34): Grecia, YV1YLY (now YV1YL), won with 830K for a new South America record and Karlos, LU1FKR, was second with 581K. Grecia was first licensed in 2014 and has fallen in love with SSB and RTTY contesting and, along with partner Julio, YV1KK, is evolving their "Signal Hill" station. Together they constructed the homebrew 15-meter, 5-element Yagi that complements their mountaintop QTH over a mile above the Caribbean Sea with clear foreground propagation to both North America and Europe.

Single-Op Assisted Low Power (452 logs received)

Single-Op Assisted All Band Low Power (317): Alek, 3Z9M (SQ9UM), won with 2.3 million, Andrius, LY7Z, was second with 1.4 million, Oleg, UT8EL, and Yuri, RM3F, were third and fourth with 1.3 million each and Rodrigo, CT1BXT, was fifth with 1.2 million.

Single-Op Assisted 80-Meter Low Power (9): Villi, ES3VI, won with 35K.

Single-Op Assisted 40-Meter Low Power (23): Bozidar, YT2B, took first with 236K and Silviu YO4NF was second with 220K. Silviu is a veteran CW contester at multi-ops such as YR2C, YR7M, and YRØHQ. Only a year ago he started operating under his own callsign, branching out into the RTTY mode for the first time.



Marcelo, CW4MAX, won Single Band 10 meters, inspired by his young son Maximo as honored in his callsign.



Grecia, YV1YLY, won Single Band 15-Meter Assisted High Power and now sports her new callsign YV1YL.





Two of the eight high school students who operated 9A7Ø1A at the 9A1A multi-op station to a very close second place finish in Multi-Multi.

Single-Op Assisted 20-Meter Low Power (61): Mohamed, 5C5W (CN8KD), won with 586K and Hiro, WHØRU, was second with 437K.

Single-Op Assisted 15-Meter Low Power (38): Ozren, Z35T, won with 179K, Rodrigo, PY2KC, was second with 157K, and Kazu, 9V1XX, was third with 146K.

Single-Op Assisted 10-Meter Low Power (4): Jorge, LW5DW, won with 59K.

Single-Op Assisted QRP (36 logs received)

Single-Op Assisted All Band QRP (16): Anton, ON6NL, won with 472K and Rich, VE3KI, was second with 463K.

Single-Op Assisted 80-Meter QRP (4): Philippe, DK6SP, won with 63K and set a new world record. Markus, DG8MG, and Uschi, DO3UR, hosted Philippe on their hilltop QTH in the Bavarian countryside. With help of local amateurs, three wire antennas were installed to cover primary directions. A tremendous success story for the modest station.

Single-Op Assisted 40-Meter QRP (4): Robert, VY2/W5AJ, set a world record with 110K. He is hard-pressed to pick a favorite between the 4-element, 40 meter Yagi at 145 feet or the scrumptious lobster cuisine by Spencer, head cook at the station.

Single-Op Assisted 20-Meter QRP (6): Doby, LZ8U (LZ2TU), won with 45K.

Single-Op Assisted 15-Meter QRP (5): Paul, UW6E (UR6EA), won with 30K.

Multi-Operator (156 logs received)

Multi-Single High Power (65): I4DZ (I4EWH, I4IFL, IK3QAR, IK4DCW, IK4HVR, IK4MGP, IZ4NIC, IU4DBX) won with 6.7 million; IQ2RY (I1BEP, IK1SPR, IT9RGY, IW1ARB, IW1QN, IZ1LBG) was second with 5.2 million; HG1S was third with 4.6 million; K1SFA was fourth with 4.4

CLUB SCORES UNITED STATES

ONLEDGIALES		
Club POTOMAC VALLEY RADIO CLUB	# Entrants	Score
POTOMAC VALLEY RADIO CLUB	55	14,760,852
NORTHERN CALIFORNIA CONTEST CLUB	22	14,299,443
FRANKFORD RADIO CLUBYANKEE CLIPPER CONTEST CLUB	23	12,075,965
WILLAMETTE VALLEY DX CLUB	28	11,821,420
MINNESOTA WIRELESS ASSN		
ARIZONA OUTLAWS CONTEST CLUB	40	6 004 396
SOCIETY OF MIDWEST CONTESTERS	22	6 012 619
FLORIDA CONTEST GROUP		
DFW CONTEST GROUP	9	4 305 339
CTRI CONTEST GROUP	3	3 395 055
WESTERN WASHINGTON DX CLUB	9	3 322 637
NORTH COAST CONTESTERS	4	3.107.302
GRAND MESA CONTESTERS OF COLORADO	6	3.092.219
GEORGIA CONTEST GROUP	4	2.207.618
KANSAS CITY CONTEST CLUB	3	1.942.246
SOUTHERN CALIFORNIA CONTEST CLUB	11	1,884,373
MAD RIVER RADIO CLUB		
KENTUCKY CONTEST GROUP	6	1,204,206
CAROLINA DX ASSOCIATION	4	1,128,421
BERGEN ARA NIAGARA FRONTIER RADIOSPORT	3	877,535
NIAGARA FRONTIER RADIOSPORT	6	741,676
HILLTOP TRANSMITTING ASSN	3	692,678
BRISTOL (TN/VA) ARC	4	628,676
NEW PROVIDENCE AMATEUR RADIO CLUB	3	589,213
MOTHER LODE DX/CONTEST CLUB	7	550,510
MISSISSIPPI VALLEY DX/CONTEST CLUB	3	549,504
CAROLINA SHINE	3	503,192
SOUTH EAST CONTEST CLUB	6	428,922
ALABAMA CONTEST GROUP NE MARYLAND AMATEUR RADIO CONTEST SOCIETY	6	384,473
SPOKANE DX ASSOCIATION		371,802
NORTH TEXAS CONTEST CLUB	4	324,805
METRO DX CLUB		206 610
CENTRAL TEXAS DX AND CONTEST CLUB		290,019
UTAH DX ASSOCIATION		162 512
MIDLAND AMATEUR RADIO CLUB	4	152 227
TENNESSEE CONTEST GROUP		120 118
DELAWARE LEHIGH AMATEUR RADIO CLUB	3	98 963
ORDER OF BOILED OWLS OF NEW YORK		
OTIDETT OF BOILED OTTEO OF NEW FORK		

DX		
BAVARIAN CONTEST CLUB	84	46,565,243
RHEIN RUHR DX ASSOCIATION	48	34,101,058
ITALIAN CONTEST CLUB		
UKRAINIAN CONTEST CLUB		
CROATIAN CONTEST CLUBEA CONTEST CLUB		
HA-DX-CLUB		
SLOVENIA CONTEST CLUB		
RUSSIAN CONTEST CLUB		6 536 412
CONTEST CLUB ONTARIO	21	6.471.335
CONTEST CLUB FINLAND		
ARAUCARIA DX GROUP		
ORCA DX AND CONTEST CLUB	12	4,934,097
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	10	4,869,935
SOUTH URAL CONTEST CLUB	5	4,631,580
599 CONTEST CLUB		
ARIPA DX TEAM		
LU CONTEST GROUPCONTEST GROUP DU QUEBEC	20	3,564,401
CE CONTEST GROUP		
SAUDI CONTEST GROUP		
RTTY CONTESTERS OF JAPAN		2 272 265
CONTEST CLUB SERBIA		
DL-DX RTTY CONTEST GROUP		
SP DX CLUB		
RIIHIMAEN KOLMOSET		
YB LAND DX CLUB		
DANISH DX GROUP	6	1,748,647
BRITISH AMATEUR RADIO TELEDATA GROUP	3	1,737,164
BLACK SEA CONTEST CLUB	4	1.373.801
URAL CONTEST GROUP	4	1,294,632
SIAM DX GROUP	5	1,248,168
BELARUS CONTEST CLUB	5	1,220,137
CHILTERN DX CLUB		
RIO DX GROUP		
EUROPEAN PSK CLUBVU CONTEST GROUP		
BAHRAIN CONTEST TEAM		
LATVIAN CONTEST TEAM		
RADIO CLUB VENEZOLANO CARACAS		
SK6AW HISINGENS RADIOKLUBB		
Z37M CONTEST TEAM	3	556 958
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	5	519.265
GRIMSBY AMATEUR RADIO SOCIETY		
MAUI AMATEUR RADIO CLUB		
UNIVERSITY OF TOKYO CONTEST CLUB	3	444,232
GMDX GROUP		
YO DX CLUB		
RUSSIAN DIGITAL RADIO CLUB		
THRACIAN ROSE CLUB		
GIPANIS CONTEST GROUP		
YYP CLUBRUSSIAN CW CLUB	3	302,871
RU-QRP CLUB	3	270,605
CDR GROUP	4	152 275
SASKATCHEWAN CONTEST CLUB	3	119 022
GRUPO DXXE	3	92 760
DONBASS CONTEST CLUB	3	78 176
NORFOLK AMATEUR RADIO CLUB	3	37.978
		. ,

HF/50MHz 100W Transceiver

FT DX 1200

This medium-price HF Transceiver Excels on all fronts. The High Frequency Design Technology it has inherited, ensures "Best in Class Performance".

The Outstanding Operability is Perfect for the DX Scene.



New Feature Waterfall Display with High Speed Spectrum Scope

The Waterfall display shows the flow of signal strength through the use of color shading, enabling easy viewing of weak signals and temporal variation of signals.

A superior triple conversion method is used with the 1st IF frequency set at 40 MHz

The receiving circuit has inherited the design concept of the FTDX series, assuring the best-in-class receiving performance.

Roofing filters with respective bandwidths of 3 kHz, 6 kHz, and 15 kHz are equipped as standard

Nearby interfering signals can be adequately eliminated by the narrow-band roofing filter.

YAESU IF DSP provides powerful, versatile, and effective performance

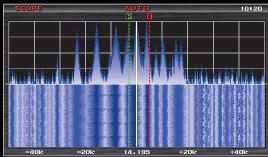
Well-proven QRM rejection features such as WIDTH, SHIFT, CONTOUR, NOTCH, and APF are included.

An optional built-in FFT-1 supports advanced functionality

Advanced functionality including AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode, and CW Auto Zero-in are supported.



The Full Color 4.3 inch TFT display (Optional FFT-1 is required for AF-FFT Scope display.)



Waterfall display (Full Screen display)



BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs, Countries, Zones, US/VE on each band

WORLD					USA						
TOP SINGLE OPERATOR ALL BAND					SINGLE OPERATOR ALL BAND						
Station	80	40	20	15	10						
P49X	297/43/12/41	669/51/22/62	1412/55/31/78	1674/52/27/84	192/33/15/30	K1LZ	368/0/12/40	738/0/22/65	818/0/22/69	705/0/23/65	4/0/2/3
UB7K	391/11/14/60	654/38/27/78	1323/54/33/97	604/19/30/83	69/1/22/33	W7RN	206/0/7/6	775/0/26/63	1139/0/26/76	470/0/26/50	5/0/3/4
9A5X	211/13/10/42	641/46/27/74	780/54/23/62	577/43/28/69	110/2/14/42	ACØC	274/0/10/25	442/0/20/55	583/0/25/77	265/0/24/66	1/0/1/1
*ZZ2T	0/0/0/0	277/35/15/43	633/51/24/61	883/47/21/71	454/25/17/63	W4UEF	189/0/8/25	392/0/13/51	331/0/15/54	249/0/14/49	0/0/0/0
EMØI	220/2/14/54	624/31/27/88	1325/49/32/95	332/9/25/74	10/1/6/7	N7US/9	146/0/6/7	316/0/21/45	558/0/24/66	185/0/20/55	0/0/0/0
		SINGLE OPERAT	OR ASSISTED AL	I RAND				SINGLE ODEDAT	OR ASSISTED ALL	DAND	
SN7Q	400/23/14/58		1177/51/34/107	705/40/29/92	55/1/15/39	AA3B	484/0/13/52	858/0/27/90	1202/0/32/102	591/0/27/97	24/0/9/11
AA3B	484/0/13/52		1202/0/32/102	591/0/27/97	24/0/9/11	W3FV	213/0/12/34	565/0/15/61	678/0/26/89	433/0/20/73	10/0/5/6
S57AW	292/17/14/63	649/44/30/97	539/47/35/108	386/36/32/110	88/1/16/46	N3QE	294/0/12/39	524/0/23/73	694/0/25/83	340/0/23/78	8/0/4/6
Y09HP	279/9/12/56	607/41/30/90	797/51/34/100	372/21/27/86	57/1/18/34	N7AT	115/0/11/11	590/0/28/67	712/0/30/82	283/0/26/65	2/0/2/2
AN4ØØT	215/24/13/44	607/42/21/65	707/52/23/64	627/30/26/62	176/1/13/33	KØKX	115/0/11/28	269/0/23/65	662/0/32/102	262/0/19/64	0/0/0/0
		MULTI-OPERATO							R SINGLE TRANS		
I4DZ	358/34/19/71		1249/57/36/116	897/53/32/107	87/1/18/52	K1SFA	224/0/13/55	830/0/27/89	1176/0/33/109	454/0/29/99	16/0/11/14
IQ1RY	283/32/16/64		1094/56/36/113	594/47/31/106	75/1/15/45	*K3LR	261/0/13/48	740/0/26/87	739/0/33/98	466/0/24/87	14/0/10/11
HG1S	263/9/13/54		1056/55/30/95	564/42/32/89	78/1/16/43	NV9L	289/0/13/34	350/0/26/70	985/0/32/90	374/0/25/81	9/0/6/7
HG7T	464/22/14/64		968/54/35/107	471/33/32/98	78/1/16/40	K3MJW	258/0/12/34	430/0/16/59	865/0/25/80	423/0/23/77	3/0/2/3
RWØA	243/1/14/55	495/15/30/90	1132/47/34/110	952/1/23/90	21/1/11/17	WW4LL	179/0/9/23	535/0/24/62	781/0/31/90	265/0/22/73	4/0/3/4
		MULTI-OPERAT	OR TWO TRANSI	MITTER				MULTI-OPERAT	OR TWO TRANSM	ITTER	
AN4ØØV	519/25/15/58	1297/51/30/95	1555/56/33/95	1218/49/31/107	177/1/15/41	K9CT	484/0/17/48	1164/0/33/90	1472/0/35/113	755/0/29/98	25/0/8/8
IQ9UI	495/32/16/66	1017/48/32/97	1369/56/35/106	1257/51/33/105	133/5/24/62	W1DX	161/0/9/29	424/0/20/67	915/0/29/90	528/0/22/81	10/0/4/5
401ØA	670/26/14/61	1451/47/31/92	1504/56/32/104	875/41/30/90	167/1/15/51	KB80	260/0/10/28	468/0/18/47	620/0/27/82	364/0/17/59	0/0/0/0
S51A	540/18/14/63	1122/50/31/96	1175/55/31/98	581/39/29/88	89/2/16/39	K7JR	89/0/5/4	298/0/25/44	758/0/28/83	292/0/25/54	0/0/0/0
DR5N	584/21/13/61	997/46/31/98	1088/56/34/106	465/41/29/88	62/1/13/31	WA3EKL	138/0/7/22	273/0/15/50	400/0/20/70	348/0/19/62	9/0/5/6
MULTI-OPERATOR MULTI-TRANSMITTER MULTI-OPERATOR MULTI-TRANSMITTER											
CR3W	338/29/14/52		1774/59/34/84	1532/49/29/94	313/1/10/51	NR4M	622/0/15/55	1172/0/28/93	1361/0/34/103	824/0/30/96	85/0/13/18
9A7Ø1A	818/27/17/69		1745/59/36/110		178/1/19/49	W4AAW	387/0/10/32	344/0/21/56	1051/0/31/95	512/0/22/77	27/0/7/9
LX7I	822/25/14/62		1379/57/34/107	823/47/29/91	62/1/14/38	K3EST/6	210/0/12/14	633/0/26/58	896/0/29/79	561/0/23/60	20/0/8/8
UA4M	490/5/15/61		1235/53/37/115	908/17/30/104	77/1/19/48	NOLO 1/0	210/0/12/14	033/0/20/30	030/0/23/13	301/0/23/00	20/0/0/0
PI4CC	471/13/11/55		1102/53/35/103	540/44/29/81	35/1/7/17						
1 1400	17 17 10/ 11/00	00 1/ 12/20/04	1102/00/00/100	0 10/ 14/20/01	00, 1, 1, 11						



Paulo, IN3VVK, won Single Band Assisted 40-Meter High Power.

million; and HG7T was fifth with 4.3 million.

Multi-Single Low Power (48): IT9BLB (IT9BLB, IT9MUO, IT9VDQ, IT9WKU, IT9ZMX, IT9ZRU, IT9DWW) was first with 3.3 million in the close race with K3LR (WW3S, ND8L, K3GP, NO3M, K8IV, N8NB, K3UA, K3LA, K3LR) and their 3.1 million. This was the maiden voyage for super-station K3LR in RTTY contesting. Respecting the station design that has been 100% focused on CW and SSB contesting for years now, another set of radios, computers, and station equipment was temporarily brought in to complement the K3LR antenna farm. Hopefully the team will return for more! DD1A

was third with 2.9 million and EA8DED was fourth with 2.7 million.

Multi-Two (28): The top three places were close with AN4ØØV (EC2DX, EA2ABI, EA3HCJ, EA5BZ, EA5RM, EA7AJR, EA7KE) at 7.9 million; IQ9UI (IT9EQO, IV3YYK, IT9NJE, IT9CHU, IT9GSF, IT9AUG, IT9CJC, IT9WNU) at 7.8 million; and 4O1ØA (S52X, S53X, S5ØXX, S57BM, 9A5LEA, YU5EEA, YU3AWA, E79AA, E73CRK) at 7.5 million.

Multi-Multi (15): The number of multi-multi entries doubled this year with a close race at the top. CR3W (DJ7JC, DJ9RR, DK4QT, DL6TK, DF6QV) won with 9.9 million. The second place team made 9.7 million points at 9A7Ø1A (9A5W, 9A9A, 9A6A, 9A7R, 9A7C, 9A4T, 9A7MIM, 9A7MSM, 9A7CDZ, 9A5CKM, 9A5AEV, 9A5CMM, 9A5CPL, 9A3TKK @9A1A). Remarkably, the last eight team members listed are students between the ages of 16-19 who have amateur radio training as part of their curriculum at the Technical School Rudjer Boskovic in Zagreb. NR4M (NR4C, K4MI, AI4WU, K7SV, W6WLG, KM4NBM, KA4RRU, N4DXS, NR4M, N7TY, N3AIU, KK4RTF, K2KW, KE2KW, N3ZV, K4GM, K4GMH, KS4Q, KM4CDQ) won North America with a fourth place world finish and the all-remote operation of W4AAW (AA5AU, MMØLID, W4TMO, N1MGO, ND3D, KU1CW, W3UL, WS7I, K4XD, W6IHG, W4AAW, K4UB) was second in North America with 2.6 million.

Score Listing

The complete listing of scores begins on page 101. Note that the US/VE QTH multiplier column is missing. Please refer to the online Score Listing at *CQ*'s website <www.cq-

EUROPE SINGLE OPERATOR ALL BAND

UB7K 9A5X EMØI LY6A 0G2P	391/11/14/60 211/13/10/42 220/2/14/54 475/6/10/53 280/6/12/49	654/38/27/78 641/46/27/74 624/31/27/88 658/31/23/72 382/27/18/54	1323/54/33/97 780/54/23/62 1325/49/32/95 964/48/29/84 941/53/27/84	604/19/30/83 577/43/28/69 332/9/25/74 378/21/26/77 228/27/28/71	69/1/22/33 110/2/14/42 10/1/6/7 1/1/1/1 0/0/0/0			
UUZI	200/0/12/43	302/21/10/34	341/33/21/04	220/21/20/11	0/0/0/0			
		SINGLE OPERA	TOR ASSISTED A	LL BAND				
SN7Q	400/23/14/58	643/45/26/82	1177/51/34/107	705/40/29/92	55/1/15/39			
S57AW	292/17/14/63	649/44/30/97	539/47/35/108	386/36/32/110	88/1/16/46			
Y09HP	279/9/12/56	607/41/30/90	797/51/34/100	372/21/27/86	57/1/18/34			
AN4ØØT	215/24/13/44	607/42/21/65	707/52/23/64	627/30/26/62	176/1/13/33			
*3Z9M	467/13/14/58	644/35/24/81	532/40/27/86	251/21/29/76	36/1/14/28			
			OR SINGLE TRAN	·····				
I4DZ	358/34/19/71		1249/57/36/116	897/53/32/107	87/1/18/52			
IQ1RY	283/32/16/64		1094/56/36/113	594/47/31/106	75/1/15/45			
HG1S	263/9/13/54	990/50/29/94	1056/55/30/95	564/42/32/89	78/1/16/43			
HG7T	464/22/14/64	644/44/31/97	968/54/35/107	471/33/32/98	78/1/16/40			
SZ1A	329/12/15/63	777/41/31/92	1084/45/31/94	443/18/30/98	63/1/18/36			
			TOR TWO TRANS					
AN4ØØV	519/25/15/58	1297/51/30/95	1555/56/33/95	1218/49/31/107	177/1/15/41			
IQ9UI	495/32/16/66		1369/56/35/106	1257/51/33/105	133/5/24/62			
401ØA	670/26/14/61		1504/56/32/104	875/41/30/90	167/1/15/51			
S51A	540/18/14/63	1122/50/31/96	1175/55/31/98	581/39/29/88	89/2/16/39			
DR5N	584/21/13/61	997/46/31/98	1088/56/34/106	465/41/29/88	62/1/13/31			
MULTI-OPERATOR MULTI-TRANSMITTER								
9A7Ø1A	818/27/17/69		1745/59/36/110	1065/49/33/111	178/1/19/49			
LX7I	822/25/14/62		1379/57/34/107	823/47/29/91	62/1/14/38			
UA4M	490/5/15/61		1235/53/37/115	908/17/30/104	77/1/19/48			
PI4CC	471/13/11/55		1102/53/35/103	540/44/29/81	35/1/7/17			
LZ9W	642/23/13/60	867/37/16/58		579/38/26/68	45/1/12/24			
*Low Pov		001/31/10/30	002/40/24/07	31 3/30/20/00	75/1/12/24			

amateur-radio.com> for the complete listing which also denotes late logs with italics.

Clubs

Worldwide: For the third year in a row the same clubs finished in the top three, with the order the same as 2015. The Bavarian Contest Club (BCC) achieved the top club score worldwide with 46.6 million across its 84 log entries. The Rhein Ruhr DX Association took second with 34.1 million and 48 entries; and the Italian Contest Club (ICC) rallied 65 entries to take third worldwide with 29.1 million.

United States: The Potomac Valley Radio Club (PVRC)



Chris, SN7Q (SP7GIQ), won Single-Op Assisted High Power at his pristine operating position.

with 55 logs and 14.8 million squeaked by the Northern California Contest Club (NCCC) with 22 logs and 14.3 million. Frankford Radio Club had 23 logs and 12.1 million for third place. These three clubs were 5th, 7th, and 8th respectively worldwide.

Logs

Log statistics were similar to the past four years. There were enough logs submitted so that 84% of all QSOs were cross-checked and 96% of those QSOs were deemed good. Approximately 1% of all QSOs had busted (incorrect) callsigns. Another 1.9% were not found in the other station's log, up from 1.5% in 2015. Busted exchanges remained the same at 1.0%. Individual Log Check Reports (LCRs) are available upon request to <w0yk@cqwwrtty.com> where you can see how your log stacks up to the overall numbers.

Website

The contest website <www.cqwwrtty.com> is a valuable resource for all aspects of the contest: Rules (including language translations), log format, log submittal, historical statistics, and results database (searchable for any entry and geographical breakdown and all-time records).

Thanks

Thanks to all participants who, together, make this a fun weekend for everyone. Thanks also to the team of volunteers behind the scenes who make it all possible:

- Jason, KD2IWM, Associate Editor for CQ Amateur Radio.
- Rules translators: Boyan, LZ2BE; Caros, BH4TX; Tapani, OH2LU; Fabi, VA2UP; Steffan, DL6SFR; Kostas, SV1DPI; Joe, IT9BLB; Kazu, JK3GAD/MØCFW; Marcos, PY2WS; Andy, YO3JR; Vlad, VE3IAE; Gerardo, EA1AST; and Mehmet, TA5FA.
- Ken, K1EA, provided the log check software and consulting during log check.
- Randy, K5ZD, for his substantial support on a wide range of issues, including a fair amount of the log fixes so that the checking software could do its task.

I look forward to seeing everyone again in the 30th annual CQWW RTTY DX Contest on 23-24 September 2017.

Ed, WØYK

(Scores on page 101)



Impressive all homebrew antennas at SN7Q (SP7GIQ).

www.cq-amateur-radio.com March 2017 • CQ • 23