

# Results of the 2018 CQWW RTTY Contest

BY ED MUNS, WØYK

*First CQWW RTTY Contest for me and it won't be the last! ... KGØEW*

*First RTTY contest. What a blast! ... NG7E*

*I love this contest as the opener of the new season! ... W6QU*

The 32<sup>nd</sup> annual CQ WW RTTY Contest attracted 3,063 logs and over 5,500 participants despite continued deterioration of solar conditions. The daily sunspot numbers for the past three contests are shown in the table below, followed by a table of the QSO breakdown by band.

	2016	2017	2018
Sat	55	12	0
Sun	30	23	15

*Sunspot numbers in each contest.*

	2014	2015	2016	2017	2018
80	7%	7%	10%	10%	14%
40	16%	21%	24%	27%	32%
20	26%	36%	41%	45%	44%
15	33%	33%	23%	17%	9%
10	18%	4%	2%	1%	0.5%

*Percentage of QSOs by band in each contest.*

Activity continued the trend toward lower frequency bands with about the same number of total QSOs (1.1 million) as in recent years. Some participants worried that the recent growth in popularity of FT8 would decrease activity but were pleased to discover that it was not the case. The RTTY participation in this contest is on par with recent years and current propagation.

*I thought that RTTY was dead with so much FT8 activity, but still alive ... PC3T*

There were 156 different countries active and a number of stations worked over 100 of them on a single band. IQ1RY led the way with 113 countries on 20 meters, among the 15 stations who worked DXCC on that band. OM5ZW and IN3VVK topped 40 meters with 103 while 9A1A led 15 meters with 91. Five stations each worked 37 zones on 20 meters: IQ4FC, LX7I, S51A, DD2ML, and IQ1RY. Interestingly, the highest number of single-band QSOs was 1,968 on 20 meters by CR3DX. The highest number of single-band US/VE QTHs was 58, achieved by both IQ4FC and CR3DX on 20 meters; K9CT had the most on both 80 and 40 meters with 56 each, and P49X had 52 for the high on 15 meters. Overall, 9A1A had the most QSOs (4,743), down over 500 from their 2017 top number. IQ4FC had the most multipliers (713), down from the 748 by 9A1A last year. 9A1A had the most countries (415), IQ4FC had the most zones (133) and P49X had the most US/VE QTHs (214). These data confirm the sunspots and QSO band breakdowns.

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*Jo, F6CTT, was a close second in SO 40 HP.*

	80	40	20	15	10	All
QSOs	800	1645	1968	1150	175	4743
Zones	22	36	37	29	14	133
Countries	78	103	113	91	42	415
US/VE QTHs	56	56	58	52	26	214

*Maximum statistics by band.*

A number of participants posted videos on YouTube: NG7M, IZØKBA, 4Ø4YCP, S53X, SV2JAO, WXØV, PU2UAH, etc.

*First RTTY test ever! Just installed MMTTY this week ... KZ2I  
It is my first RTTY contest ... UW5EJX/MM*

## Single-Op High Power (455 Logs Received)

**Single-Op All Band High Power (338):** Wanderley, ZX2B (PY2MNL) won with 3.1 million points after winning SOAB LP in 2017. TMØT (F4HQZ) took second with 2.9 million points followed by Alex, YO9HP, with 2.4 million; Alberto, I4JED, with 2.3 million points; Nick, EMØI (UT2IZ), with 2.3 million; and Jim, G2F (MØCKE), also with 2.3 million points. Jeff, ACØC, was next and first in North America with 1.8 million. Alex, YO9HP (see this issue's cover), was pleased with both the general signal quality and the RTTY participation that didn't seem to be decreased due to the recent popularity of FT8.

**Single-Op 80 Meters High Power (14):** Alex, US1Q (UW2QU), won with 85K.

**Single-Op 40 Meters High Power (27):** Pal, HA8JV, took first with 511K and Joseph, F6CTT, was second with 487K.

**Single-Op 20 Meters High Power (61):** Stan, OK7W, won again with 711K, down from his winning 2017 effort. The next

## 2018 CQWW RTTY TROPHY DONORS AND WINNERS

### SINGLE OPERATOR HIGH POWER

**North America:** Dick Wilson, K6LRN & Carolyn Wilson, K6TKD. Won By: **Wanderley Gomes, ZX2B** (op: PY2MNL)  
**USA:** Kevin Rowett, K6TD. Won By: **Jeff Blaine, ACØC**  
**USA-7th Call Area:** Hank Lonberg, KR7X. Won By: **Bob Norin, W7YAQ**

### SINGLE OPERATOR LOW POWER

**World:** Grand Mesa Contesters of Colorado (GMCC). Won by: **Ed Muns P49X** (op: WØYK)  
**North America:** Joseph Young, W6RLL. Won by: **Yuri Onipko, VE3DZ**  
**USA:** Kevin Rowett, K6TD. Won by: **Rich Cady, N1IXF**

### SINGLE OPERATOR QRP

**World:** Kevin der Kinderen, K4VD. Won by: **Rudolf Roffer, DK7HA**

### SINGLE OPERATOR ASSISTED HIGH POWER

**World:** Mike Sims, K4GMH. Won by: **Sergey Rebrov, P3X** (op: UT5UDX)  
**Asia:** Lakshman "Lucky" Bijanki, VU2LBW. Won by: **Maski Okano, JH4UYB**

### SINGLE OPERATOR ASSISTED LOW POWER

**World:** Jim Barron, WB5AAA. Won by: **Dimitri Cosson, TM3Z** (op: F4DSK)  
**North America:** Wray Dudley, AB4SF. Won by: **Jamie Tolbert, WW3S**

### SINGLE OPERATOR SINGLE BAND

**High Power 21 MHz World:** Steve "Sid" Caesar, NH7C. Won by: **Marcelo Egces, CW4MAX** (op: CX2DK)  
**High Power 14 MHz North America:** Patrick W. Soileau, ND5C. Won By: **Thomas Johnson, WD5K**

### MULTI-OPERATOR, SINGLE-TRANSMITTER HIGH POWER

**World:** PL259 Contest Club. Won By: **IQ4FC** (ops: HB9CAT, I4EWH, I4IFL, IK3QAR, IK4DCW, IK4HVR, IK4MGP, IK4WMH, IU4FNO, IW3FVZ, IZ4NIC)  
**Europe:** EA Contest Club. Won by: **IQ6AN** (ops: IZ6TSA, IK6VXO, IK6JNH, IZ1YPF, IK1HJS, IU1GNA, IU6KKW)  
**North America:** Steve Jarrett, K4FJ. Won by: **K1SFA** (ops: K1MK, K1NZ, K1SFA, K1TTT, W1TO @K1TTT)  
**USA:** Jack Satterthwaite, K3KG. Won by: **N8OO** (ops: N8OO, WQ5MM)

### MULTI-OPERATOR, SINGLE-TRANSMITTER LOW POWER

**North America:** John Miller, K6MM. Won by: **IT9BLB** (ops: IT9BLB, IT9MBZ, IT9MUO, IT9VDQ, IT9ZMX)

### SINGLE OPERATOR, MULTI-TWO

**World:** Ed Muns, WØYK. Won by: **CR3DX** (ops: CT3BD, CT3DZ, CT3EN, CT3KY, CT9ABN, CT9ABO, CT9ABP, OM7LW)  
**Europe:** CT3 Madeira Contest Team/CR3A/CQ9K. Won by: **LX7I** (ops: LX2A, DF7ZS, DD5ZZ, DL6ZBN, DJ6GI, DK5ON, VO1IDX)

### SINGLE OPERATOR, MULTI-TRANSMITTER

**World:** Mike Trowbridge, KA4RRU. Won By: **9A1A** (ops: 9A5W, 9A9A, 9A6A, 9A7R, 9A7C, 9A8A, 9A7RA, 9A7ROR, 9A5AEU)  
**North America:** Kevin Rowett, K6TD. Won by: **NR4M** (ops: KA4RRU, K4GM, KS4Q, K4MI, K3UI, NR4M, W1IE, K4QS, K4GMH)

### CLUB COMPETITION

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



*Humberto, CE1LTL, placed fifth in SO 15 LP after only two years of RTTY contesting.*

three places were Jozef, OM1ØØCSR (OM5CD), with 420K; Uwe, DL3BQA, with 343K; and Karlis, YL2CI, with 325K.

**Single-Op 15 Meters High Power (12):** Marcelo, CW4MAX (CX2DK), won with 510K, down from his 2017 winning score. Julio, PY2XV, was second with 434K.

**Single-Op 10-Meter High Power (3):** Julio, YV1KK, persevered to win with 19K and 115 QSOs.

## Single Operator Low Power (1,198 Logs Received)

**Single-Op All Band Low Power (866):** Ed, P49X (WØYK), escaped

## TOP SCORES IN VERY ACTIVE ZONES

### Zone 3

W7YAQ.....	509,124
N6JV.....	462,400
VA7ST.....	327,132
*N7IR.....	257,301
*WN6K.....	194,701

### Zone 4

ACØC.....	1,787,767
WB9Z.....	1,104,048
*VE3DZ.....	958,848
VE3KI.....	720,266
AD5XD.....	648,261

### Zone 5

K5ZD.....	1,508,650
W4GO.....	1,399,020
W4PK.....	1,122,275
*N1IXF.....	943,358
VE2GSO.....	906,750
*W4GO.....	800,226

### Zone 14

TMØT (F4HQZ).....	2,878,443
G2F (MØCKE).....	2,278,500
*MJ5Z (JK3GAD).....	1,827,534
*CT7AJL.....	1,027,638
TM5T (F5VKT).....	930,468

### Zone 15

I4JED.....	2,348,400
*SQ2WHH.....	743,280
OK7W.....	711,312
*IT9PZM.....	641,625
LY4OO.....	615,600

### Zone 16

EMØI (UT2IZ).....	2,284,932
EW8DX.....	723,008
*UT5EPP.....	687,675
EW6EN.....	521,970
UR5CN.....	496,440

### Zone 20

YO9HP.....	2,419,830
*LZ9R.....	523,160
*YO6HSU.....	355,005
*YO3YV.....	288,473
*LZ2JA.....	219,375

### Zone 25

JF1OPL.....	222,720
JA8TR.....	207,900
JA7ACM.....	168,858
*JM1MTE.....	139,536
JF1LMB.....	133,812

\*Low Power



high power for the first time (due to RFI issues) and won with 4.2 million, followed by Kazu, MJ5Z (JK3GAD), with 1.8 million; Helder, CT7AJL, with 1 million; Yuri, VE3DZ, with 959K; and Rich, N1IXF, with 943K.

**Single-Op 80-Meter Low Power (36):** Evgeni 4Z5UN, won with 105K (a new Asia record), followed by Juraj, OM3ZWA, with 73K; Janez, S51J, with 67K; and Zdenek, OK2HBR, with 62K.

**Single-Op 40-Meter Low Power (97):** Kari, EA8AH (OH4KA), set a new world record with 374K followed by Tim, G8X (G4FJK), with 176K.

**Single-Op 20-Meter Low Power (162):** Iacopo, IK5AMB, won with 283K, followed by Savvas, 9H1AE, with 225K; Gerald, OE2E (OE2GEN), with 224K; Kiril, LZ2JA, with 219K; and Vitor, PY2NY, with 206K.

**Single-Op 15-Meter Low Power (33):** Mauricio, PY2CX, was first with 260K, down from his winning score as ZV2C last year.

**Single-Op 10-Meter Low Power (4):** Guiseppe, IT9NAN, won with 551 points and 16 QSOs.

### Single Operator QRP (106 Logs Received)

**Single-Op All Band QRP Power (52):** Rudolf, DK7HA, won with 421K and Scott, MM3AWD, took second with 348K.

**Single-Op 80-Meter QRP (10):** Giovanni, IZ7FLP, won with 55K following his 40-meter QRP win last year.

**Single-Op 40-Meter QRP (14):** Val, LZ5T, won with 108K and Greg's, WD9FTZ, third-place finish set a new U.S. record with 25K.

**Single-Op 20-Meter QRP (20):** Ratko, YU1NR, won with 102K.

**Single-Op 15-Meter QRP (9):** Vladimir, UW5EJX/MM, won with 85K from his shipboard station in Angola, setting the first record in this category for Africa.

**Single-Op 10-Meter QRP (1):** Andy, LU4VZ, had 1.6K and 25 QSOs.

*First ever RTTY contest, and at 5 watts, no less! ... AG7NC*

### Single-Op Assisted High Power (549 Logs Received)

**Single-Op Assisted All Band High Power (424):** Serge, P3X (UT5UDX), just barely got past Chris, SN7Q (SP7GIQ), for first place. Both had 3.7 million points, moving up from third and fourth last year and reversing their finish order. Bud, AA3B, and Rick, K11G, battled it out once again in North America again with 3.5 million and 3.3 million respectively, also reversing their order from 2017. This time, Bud had enough QSOs to overcome Rick's higher multiplier total. Victor, UW1M (UR5MW), was 5<sup>th</sup> and Gabry, IT9RGY/4, was 6<sup>th</sup>, each with 2.8 million points.

**Single-Op Assisted 80M High Power (17):** Toly, UX2X (UT2XQ), won with 184K.

**Single-Op Assisted 40M High Power (42):** Lubomir, OM5ZW, won with 706K; Paolo, IN3VVK, was second with 642K; Maciej, SN2M (SP2XF), third with 597K; and Alex, R7AB (R7DA), fourth with 542K.

**Single-Op Assisted 20M High Power (53):** Vairo, IQ1RY,

## BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

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

WORLD					USA						
TOP SINGLE OPERATOR ALL BAND											
Station	80	40	20	15	10	Station	80	40	20	15	10
*P49X	341/15/47/43	752/21/65/51	1027/22/59/55	616/17/47/52	41/6/8/13	AC0C	385/13/29/49	664/22/55/52	1081/24/71/47	137/15/35/25	0/0/0/0
ZX2B	58/10/25/15	442/21/54/44	710/22/60/50	841/20/70/42	97/14/30/18	K5ZD	226/11/35/40	368/17/51/45	829/25/73/43	149/17/42/13	7/3/4/3
TM0T	306/13/52/21	832/25/71/46	885/26/62/53	424/19/60/36	51/7/22/0	W4G0	151/11/21/39	419/19/58/47	752/24/72/40	165/18/49/12	6/4/5/1
Y09HP	304/9/51/2	725/30/88/31	880/33/89/46	201/24/61/16	18/6/15/0	W4PK	166/10/14/40	358/19/47/43	676/19/60/38	188/14/42/14	11/3/3/5
I4JED	157/6/39/3	550/21/72/40	935/27/67/52	361/24/74/29	32/8/13/0	WB9Z	199/8/13/47	396/20/44/44	647/29/57/35	198/13/42/14	1/1/1/1
SINGLE OPERATOR ASSISTED ALL BAND											
P3X	247/8/49/0	1183/28/92/42	710/25/72/47	481/16/57/30	32/4/14/0	AA3B	533/16/53/51	915/23/81/54	1130/28/89/49	281/20/59/27	13/5/7/3
SN7Q	451/16/62/18	955/32/89/42	1147/33/100/51	175/24/65/14	16/5/13/0	K11G	406/17/61/50	762/27/83/54	1125/31/93/51	244/21/59/21	19/6/8/6
AA3B	533/16/53/51	915/23/81/54	1130/28/89/49	281/20/59/27	13/5/7/3	N3QE	408/15/43/52	629/19/65/53	764/24/80/45	178/17/52/16	5/1/1/3
K11G	406/17/61/50	762/27/83/54	1125/31/93/51	244/21/59/21	19/6/8/6	W3FV	287/12/31/46	497/20/63/48	789/24/80/31	173/18/50/12	4/2/2/2
UW1M	289/13/56/2	853/29/82/41	1363/31/85/50	197/19/46/0	24/3/9/0	AA5AU	285/11/16/47	409/18/52/52	666/24/79/51	123/15/41/12	12/4/7/2
MULTI-OPERATOR SINGLE TRANSMITTER											
IQ4FC	444/22/78/33	1177/34/99/53	1807/37/110/58	307/29/87/29	44/11/33/0	K1SFA	470/20/67/54	793/26/85/55	1354/32/93/53	143/21/61/31	14/6/8/7
IQ6AN	305/13/60/15	967/32/96/53	1458/35/96/56	269/27/79/31	28/9/22/0	N800	383/17/40/53	530/23/67/50	907/25/77/52	178/19/52/24	14/6/7/5
IQ9UI	355/18/70/33	1073/29/93/48	846/35/101/48	561/29/87/36	42/7/20/0	W3GH	263/13/35/49	440/19/49/55	800/17/55/38	244/16/48/14	8/4/3/2
K1SFA	470/20/67/54	793/26/85/55	1354/32/93/53	143/21/61/31	14/6/8/7	N0NI	165/9/8/45	312/20/49/47	847/25/83/47	14/10/14/1	0/0/0/0
HG7T	482/16/71/13	746/28/92/40	1046/35/106/51	280/27/73/22	24/6/18/0	W7MRF	268/12/14/50	528/24/46/54	704/25/59/52	45/11/15/14	1/1/1/1
MULTI-OPERATOR TWO TRANSMITTER											
CR3DX	253/15/57/23	1234/27/75/49	1968/32/89/58	1130/22/76/44	26/8/16/0	K9CT	529/21/48/56	1004/27/76/56	1203/30/90/52	211/18/52/26	12/4/4/9
LX7I	780/18/70/26	1176/30/93/49	1323/37/104/55	456/26/73/36	22/5/13/0	W0LSD	416/15/20/51	707/29/63/53	780/25/82/47	125/13/28/29	2/2/2/1
S53S	654/16/73/28	1194/34/99/49	1235/34/99/53	360/25/73/31	70/8/27/0	K000	247/14/29/48	470/20/64/50	412/25/74/36	126/18/39/12	6/5/4/3
S51A	735/15/68/18	1182/33/97/44	1233/37/104/57	323/25/70/27	51/5/23/0	N2YB	191/8/10/46	499/15/48/51	617/22/61/34	96/16/36/10	0/0/0/0
PI4COM	581/15/67/20	849/30/99/42	1046/34/91/54	439/25/73/36	7/3/6/0	KI6DY	365/11/12/54	402/14/25/49	691/21/60/43	54/11/29/2	0/0/0/0
MULTI-OPERATOR MULTI-TRANSMITTER											
9A1A	800/22/75/24	1449/32/101/43	1623/36/106/55	711/28/91/38	160/10/42/0	NR4M	598/14/47/53	1078/21/77/53	967/28/82/47	329/20/58/26	48/7/10/14
CR3W	392/15/61/37	1100/31/90/44	1538/31/89/54	1124/28/83/38	3/3/3/0	W4AAW	361/15/37/49	744/20/71/53	965/29/85/46	230/18/55/14	17/2/2/7
PI4CC	355/13/62/17	874/29/89/31	1382/35/102/53	297/22/66/27	35/3/15/0	K3EST	267/15/16/49	724/28/62/55	756/32/85/52	103/10/15/22	0/0/0/0
NR4M	598/14/47/53	1078/21/77/53	967/28/82/47	329/20/58/26	48/7/10/14						
LZ7A	436/10/56/8	820/24/83/33	1112/32/88/50	347/26/67/21	33/6/16/0						

took first with 985K, followed by Luka, 9A5D, with 680K; and Hartmut, DM5TI, with 653K.

**Single-Op Assisted 15M High Power (12):** Giannis, SV9FBG, won with 109K.

**Single-Op Assisted 10M High Power (1):** Cort, K4WI, won with 1.5K and 28 QSOs.



Another multiplier is bagged at K9CT, the NA M2 winner.



Mune, JH3DMQ, also applies his QRP skill to emergency communications.

### EUROPE

#### SINGLE OPERATOR ALL BAND

Station	80	40	20	15	10
TM0T	306/13/52/21	832/25/71/46	885/26/62/53	424/19/60/36	51/7/22/0
Y09HP	304/9/51/2	725/30/88/31	880/33/89/46	201/24/61/16	18/6/15/0
I4JED	157/6/39/3	550/21/72/40	935/27/67/52	361/24/74/29	32/8/13/0
EM0I	272/10/50/1	679/26/77/36	1168/29/83/48	151/20/56/0	33/4/13/0
G2F	479/12/52/20	817/24/70/37	879/28/67/52	161/15/48/4	5/1/4/0

#### SINGLE OPERATOR ASSISTED ALL BAND

SN7Q	451/16/62/18	955/32/89/42	1147/33/100/51	175/24/65/14	16/5/13/0
UW1M	289/13/56/2	853/29/82/41	1363/31/85/50	197/19/46/0	24/3/9/0
IT9RGY/4	362/14/60/22	893/30/91/48	855/35/91/53	139/21/40/19	11/4/6/0
OM2VL	237/18/70/10	495/31/91/35	889/36/102/48	142/25/70/18	44/9/27/0
DD2ML	265/13/56/16	434/28/86/29	906/37/98/51	187/23/62/24	30/6/16/0

#### MULTI-OPERATOR SINGLE TRANSMITTER

IQ4FC	444/22/78/33	1177/34/99/53	1807/37/110/58	307/29/87/29	44/11/33/0
IQ6AN	305/13/60/15	967/32/96/53	1458/35/96/56	269/27/79/31	28/9/22/0
IQ9UI	355/18/70/33	1073/29/93/48	846/35/101/48	561/29/87/36	42/7/20/0
HG7T	482/16/71/13	746/28/92/40	1046/35/106/51	280/27/73/22	24/6/18/0
DP7D	391/15/69/23	694/31/98/44	978/36/107/53	262/25/70/28	21/6/17/0

#### MULTI-OPERATOR TWO TRANSMITTER

LX7I	780/18/70/26	1176/30/93/49	1323/37/104/55	456/26/73/36	22/5/13/0
S53S	654/16/73/28	1194/34/99/49	1235/34/99/53	360/25/73/31	70/8/27/0
S51A	735/15/68/18	1182/33/97/44	1233/37/104/57	323/25/70/27	51/5/23/0
PI4COM	581/15/67/20	849/30/99/42	1046/34/91/54	439/25/73/36	7/3/6/0
LY2W	632/16/69/14	1375/31/101/33	848/35/100/44	103/24/58/11	25/3/15/0

#### MULTI-OPERATOR MULTI-TRANSMITTER

9A1A	800/22/75/24	1449/32/101/43	1623/36/106/55	711/28/91/38	160/10/42/0
PI4CC	355/13/62/17	874/29/89/31	1382/35/102/53	297/22/66/27	35/3/15/0
LZ7A	436/10/56/8	820/24/83/33	1112/32/88/50	347/26/67/21	33/6/16/0
EA3HLT	238/10/43/18	722/20/64/35	483/16/51/34	205/14/34/23	42/4/11/0
EA1AP	190/13/43/18	283/11/41/26	701/21/57/46	109/14/32/11	0/0/0/0

\*Low Power



QRP can use big antennas, too! (Photo by Mune, JH3DMQ)

## Single-Op Assisted Low Power (447 logs received)

**Single-Op Assisted All Band Low Power (308):** Dimitri, TM3Z (F4DSK), took first with 2.4 million (up from his win last year), followed by Alex, SO9M (SQ9UM), with 1.7 million (also up from second place last year); Ivan, YU5R (YT2AAA), with 1.4 million; Doug, VA3DF, with 887K; Jamie, WW3S, with 760K; and Oleg, UT8EL, with 739K.

**Single-Op Assisted 80M Low Power (21):** Cisar, OK4GP, won with 74K.

**Single-Op Assisted 40M Low Power (45):** Laszlo, HA8QZ, won with 305K.

**Single-Op Assisted 20M Low Power (49):** Mohamed, 5C5W (CN8KD), won with 531K and EA2VE was second with 367K.

**Single-Op Assisted 15M Low Power (22):** Eugenio, CV7S (CX7SS), won with 289K, down from his win last year.

**Single-Op Assisted 10M Low Power (2):** Joe, IT9RZU, won with 2K and 40 QSOs.

## Single-Op Assisted QRP (38 logs received)

**Single-Op Assisted All Band QRP (11):** Anton, ON6NL, won with 507K.

**Single-Op Assisted 80M QRP (8):** Dragan, E77EA, won with 46K and Pieter, ON3DI, was second with 40K.

**Single-Op Assisted 40M QRP (7):** Robby, DM6DX, won with 124K for a new European record. His son Jan, DO5WW, entered SO15 LP. Robby is the DL chairman for Contest University.

**Single-Op Assisted 20M QRP (10):** Andrea, IK2XDE, took first with 164K in his first QRP effort, due to a defective amplifier.

**Single-Op Assisted 15M QRP (1):** Alexey, RU7A, had 3K with 35 QSOs.

**Single-Op Assisted 10M QRP (1):** Mune, JH3DMQ, won with 16 points and 2 QSOs.

*Ran QRP, ONE HALF WATT to a 20-foot end-fed wire. I did not snag a lot of DX in this one, but had a lot of fun seeing what a 1/2-watt RTTY can do ... N6HI*

## Single-Op Overlay (436 logs received)

**Rookie (69):** Peter, K8PK, won with 257K and Barbi, S55BA, was second with 204K. Nick, SV3SCW, took 3<sup>rd</sup> with 152K; Renan, PY2FRQ, was 4<sup>th</sup> with 131K; and Michael, VE3MZD, was 5<sup>th</sup> with 99K.

**Classic (367):** Randy, K5ZD, won with 1.5 million followed by Jerry, WB9Z, with 1.1 million; Jorge, LU5VV, also with 1.1 million; Yuri, VE3DZ, with 959K; Ian, TM5T (F5VKT), with 930K; and Yuri, RG9A, with 905K.

*24-hour classic entry suited equipment, band conditions and the operator ... GØMTN*

*Played golf and attended symphony concert. Didn't operate the ideal hours, but Classic category was a fun challenge! ... K5ZD*

## Multi-Operator (169 logs received)

**Multi-Single High Power (76):** IQ4FC (HB9CAT, I4EWH, I4IFL, IK3QAR, IK4DCW, IK4HVR, IK4MGP, IK4WMH, IU4FNO, IW3FVZ, IZ4NIC) once again took first place (I4DZ in the past) with 3.8 million points, IQ6AN (IZ6TSA, IK6VXO, IK6JNH, IZ1YPF, IK1HJS, IU1GNA, IU6KKW) was second with 3.0 million, IQ9UI (I4AVG, IT9EXE, IT9EQO, IV3YY,

## CLUB SCORES

### UNITED STATES

Club	# Entrants	Score
POTOMAC VALLEY RADIO CLUB	72	21,481,269
YANKEE CLIPPER CONTEST CLUB	28	12,115,694
SOCIETY OF MIDWEST CONTESTERS	58	10,228,155
NORTHERN CALIFORNIA CONTEST CLUB	21	9,077,997
FRANKFORD RADIO CLUB	17	9,010,255
ARIZONA OUTLAWS CONTEST CLUB	30	7,782,736
MINNESOTA WIRELESS ASSN	38	5,101,558
DFW CONTEST GROUP	12	3,496,292
FLORIDA CONTEST GROUP	15	2,913,235
KANSAS CITY CONTEST CLUB	5	2,147,129
WESTERN WASHINGTON DX CLUB	11	2,079,555
MAD RIVER RADIO CLUB	6	1,722,654
GRAND MESA CONTESTERS OF COLORADO	4	1,698,569
KENTUCKY CONTEST GROUP	5	1,619,981
CAROLINA DX ASSOCIATION	9	1,581,879
WILLAMETTE VALLEY DX CLUB	12	1,565,719
TENNESSEE CONTEST GROUP	9	1,469,009
ALABAMA CONTEST GROUP	10	1,430,377
SOUTHERN CALIFORNIA CONTEST CLUB	16	1,362,747
LOUISIANA CONTEST CLUB	3	1,144,858
NORTH COAST CONTESTERS	5	1,053,506
SWAMP FOX CONTEST GROUP	8	954,432
CTRI CONTEST GROUP	5	864,225
BRISTOL (TNVA) ARC	3	685,175
NEW PROVIDENCE ARC	4	572,156
ORDER OF BOILED OWLS OF NEW YORK	6	558,801
NIAGARA FRONTIER RADIOSPORT	6	373,598
NE MARYLAND AMATEUR RADIO CONTEST SOCIETY	3	271,772
SPOKANE DX ASSOCIATION	6	259,764
IDAHO DX ASSOCIATION	4	251,229
METRO DX CLUB	4	168,982
SOUTH EAST CONTEST CLUB	4	168,039
TEXAS DX SOCIETY	5	159,889
SHENANDOAH VALLEY WIRELESS	3	136,254

### DX

BAVARIAN CONTEST CLUB	85	36,872,397
UKRAINIAN CONTEST CLUB	51	21,993,575
RHEIN RUHR DX ASSOCIATION	46	20,179,652
ITALIAN CONTEST CLUB	43	20,054,735
CROATIAN CONTEST CLUB	9	11,481,171
EA CONTEST CLUB	23	11,406,967
SLOVENIA CONTEST CLUB	9	11,341,730
CONTEST CLUB ONTARIO	26	9,247,726
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	6	7,268,943
HA-DX-CLUB	4	7,091,961
INTEREST GROUP RTTY	9	5,559,832
ARAUCARIA DX GROUP	9	4,876,173
ARIPA DX TEAM	6	4,362,967
LU CONTEST GROUP	17	3,090,579
CONTEST CLUB SERBIA	12	3,034,397
CONTEST CLUB FINLAND	14	2,960,738
BELARUS CONTEST CLUB	6	2,806,553
SOUTH URAL CONTEST CLUB	5	2,186,031
CLIPPERTON DX CLUB	4	2,072,335
RIIHIMAEEN KOLMOSET	4	2,053,918
SP DX CLUB	15	2,015,739
LATVIAN CONTEST CLUB	8	1,990,152
RUSSIAN CONTEST CLUB	13	1,725,979
KRIVBASS	7	1,662,336
ORCA DX AND CONTEST CLUB	9	1,267,745
YB LAND DX CLUB	33	1,163,506
RADIO AMATEUR ASSOCIATION OF WESTERN GREECE	3	1,069,346
THRACIAN ROSE CLUB	7	907,198
THAILAND DX ASSOCIATION	5	727,751
CONTEST GROUP DU QUEBEC	6	721,023
THREE A'S CONTEST GROUP	3	550,792
VK CONTEST CLUB	6	547,514
RTTY CONTESTERS OF JAPAN	6	471,380
GMDX GROUP	3	457,963
URAL CONTEST GROUP	4	407,989
GRIMSBY AMATEUR RADIO SOCIETY	5	389,694
CLUB DE RADIO EXPERIMENTADORES DE OCCIDENTE	3	388,692
GIPANIS CONTEST GROUP	4	376,508
RIO DX GROUP	9	344,503
RUSSIAN DIGITAL RADIO CLUB	7	334,372
LA CONTEST CLUB	3	296,747
VU CONTEST GROUP	6	274,795
SINGLE FIGHTER DX GROUP	8	265,356
SK5AA VASTERAS RADIOKLUBB	3	248,351
RU-QRP CLUB	3	233,957
RADIO CLUB VENEZOLANO CARACAS	4	225,065
UR-QRP-CLUB	4	201,031
JUST FOR FUN CONTEST CLUB	3	198,680
ARCK	7	192,460
SK6AW HISINGENS RADIOKLUBB	3	189,712
BLACK SEA CONTEST CLUB	4	149,878
DANISH DX GROUP	4	148,412
CDR GROUP	6	143,273
UA2 CONTEST CLUB	3	142,338
WORLD WIDE YOUNG CONTESTERS	3	128,556
MEDITERRANEO DX CLUB	3	127,584
GUARA DX GROUP	4	66,388
YO DX CLUB	3	63,206
CHILEAN PACIFIC DX GROUP	3	50,043
ORARI LOKAL BOGOR	6	36,962
ORARI LOKAL KEDIRI	5	29,793
YOGYAKARTA DX CONTEST	4	18,146



Chris, SN7Q (op. SP7GIQ), nearly tied for first place in SOA AB HP. His antennas are just as impressive as the radio room.



Gerald, OE2E (op. OE2GEN), took third place in SO 20 LP with this fine station.

IT9CJC, IT9CHU, IT9AUG, IT9CZJ) was third with 2.9 million, and K1SFA (K1SFA, K1NZ, K1MK, W1TO, K1TTT) was fourth with 2.8 million.

**Multi-Single Low Power (49):** IT9BLB (IT9BLB, IT9MBZ, IT9MUO, IT9VDQ, IT9ZMX) was first with 3.4 million, 9A5Y (9A3LG 9A7DX) was 2<sup>nd</sup> with 2.1 million, and CS5CRE (CT1COU, CT7ABS, CT1FKN, CT2IAG, CS7AGU, CT1CWF, CT2JYV, CS7AGU, CT5KEK) was 3<sup>rd</sup> with 1.9 million.

**Multi-Two (32):** CR3DX (CT3BD, CT3ZL, CT3EN, CT3KY, CT9ABN, CT9ABO, CT9ABP, OM7LQ) won with 7.7 million, LX7I (LX2A, DF7ZS, DD5ZZ, DL6ZBN, DJ6GI, DK5ON, VO1IDX) was second with 5.6 million. S53S (S50XX, S52K, S52X, S53X, S55G, S55Y, S56G, S56Y, S57AV) took third with 3.5 million. S51A (S51TC, S55O, YT4RA, S59MZ, YT7AW, S50LD, S56B, S51ZJ) was fourth with 4.9 million.

**Multi-Multi (12):** 9A1A (9A5W, 9A9A, 9A6A, 9A7R, 9A7C, 9A8A, **9A7RA, 9A7ROR, 9A5AEU**) continues to dominate this category with 7.8 million and develop young operators, age 16-21 (listed above in **bold**). CR3W (DK4QT, DJ9RR, DL6TK, S56A, DM3BJ, DJ7JC) was second again with 7.2 million. PI4CC (PA3AKP, PA3ALK, PA4LA, PA7KG, PC2A, PG4DX, PG2A, PG2M) was third with 3.7 million and NR4M (KA4RRU, K4GM, KS4Q, K4MI, K3UI, NR4M, W1IE, K4QS K4GMH) was fourth with 3 million.

## Clubs

**Worldwide:** Once again the Bavarian Contest Club (BCC) took top honors with 37 million points across 85 logs. The Ukrainian Contest Club took second with 22 million in 51 logs. Fourth and fifth places were nearly tied at 20 million by the Rhein Ruhr DX Association and the Italian Contest Club, with 46 and 43 logs respectively.

**United States:** In fourth place worldwide was the Potomac Valley Radio Club (PVRC) with 21 million in 72 logs, also winning the North America club competition over Yankee Clipper

Contest Club at 12 million, the Society of Midwest Contesters with 10 million, the Northern California Contest Club with 9 million, and the Frankford Radio Club, also with 9 million points.

## Logs

Log statistics were similar to recent years, despite log checking itself improving. There were enough logs submitted such that 87% of all QSOs were cross-checked and 97% of those QSOs were deemed good. Busted (incorrect) callsigns comprised 1% of all QSOs. Another 1.8% were not found in the other station's log, increasing slightly. Busted exchanges remained the same at 0.7%. Individual Log Check Reports (LCRs) are available upon request to <w0yk@cqwrrty.com> where you can see how your log stacks up to the overall numbers.

## Website

The contest website <www.cqwrrty.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 scene 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 ever-evolving log-check software and consulting during log check.
- Randy, K5ZD, for his substantial support on a wide range of issues, including almost all of the log fixes so that the check software runs smoothly and correctly.

I look forward to seeing everyone again in the 33<sup>rd</sup> annual CQWW RTTY DX Contest on 28-29 September 2019.

– Ed, WØYK

Love this contest ... WR7Q