

# Results of the 2017 CQWW WPX CW Contest

BY TERRY ZIVNEY\*, N4TZ

**A** bad weekend contesting beats a good week at work. This must be a worldwide belief, because this year, a new record of 4,373 logs was submitted despite the continuing downward trend in propagation. Many operators posted notes in their QRM comments along the lines of “conditions went from good to bad to worse, but I had a lot of fun.” As KU2M noted, the weekend provided serious fun even for those who weren’t serious this year.

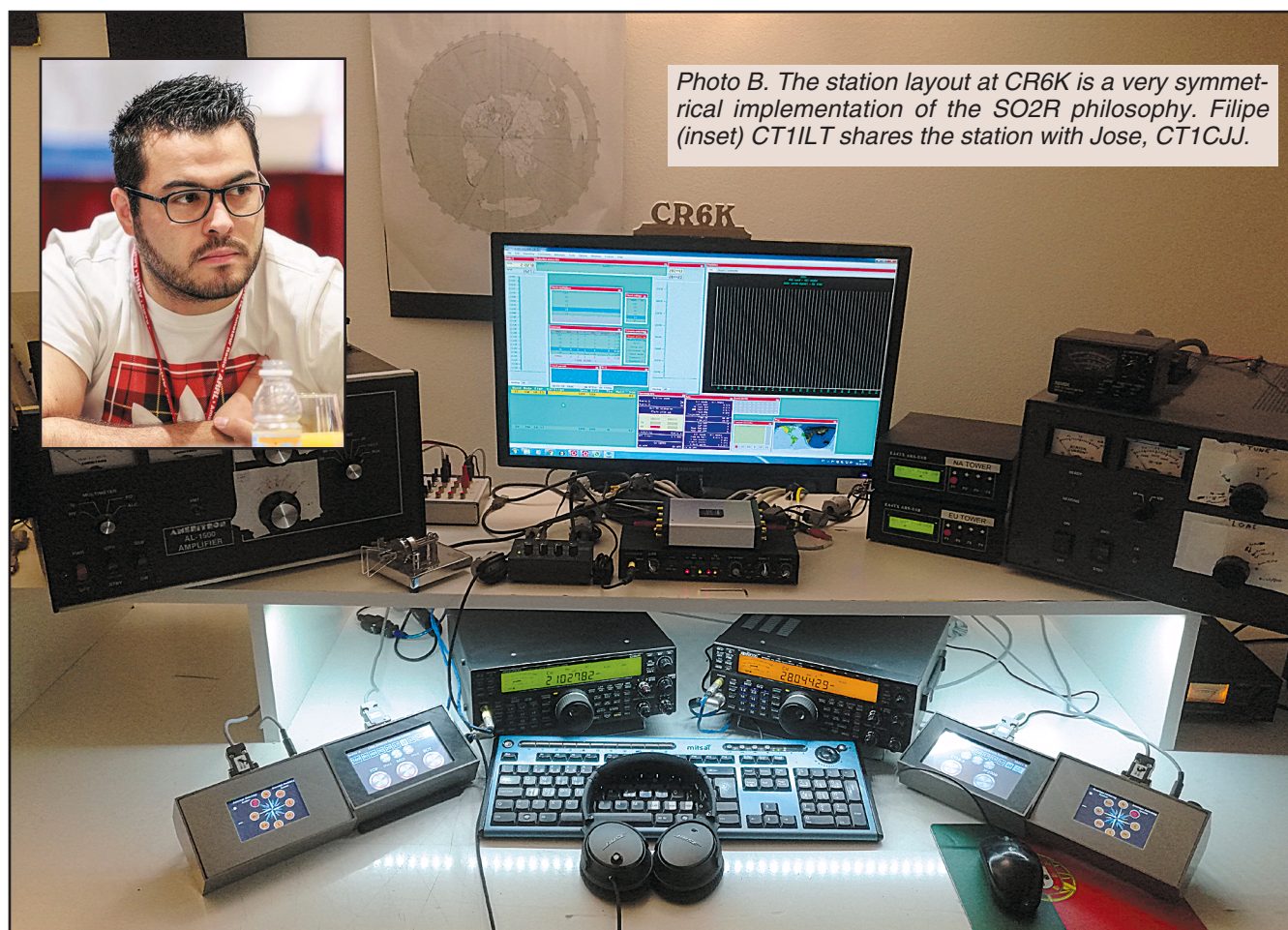
## Single-Operator All Band

Tom, W2SC, must have been pumped up by the talk he gave at the Dayton Hamvention®. He told the assembled contesters that the mission of his 8P5A station was to win contests. And he fulfilled that mission as he won the CW leg to get a sweep of the CQWW WPX contest. Nate, N4YDU, (*Photo A*) moved his remote NR3X operation from New York in the SSB leg to Maine in the CW leg to win stateside honors, beating out Bob, KQ2M/1, the SSB U.S. champ, who stayed put at his home

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*Photo A. Nate, N4YDU, operated a remote station in Maine as NR3X, from his home in North Carolina. NR3X was the top scoring U.S. single operator station.*



*Photo B. The station layout at CR6K is a very symmetrical implementation of the SO2R philosophy. Felipe (inset) CT1ILT shares the station with Jose, CT1CJJ.*

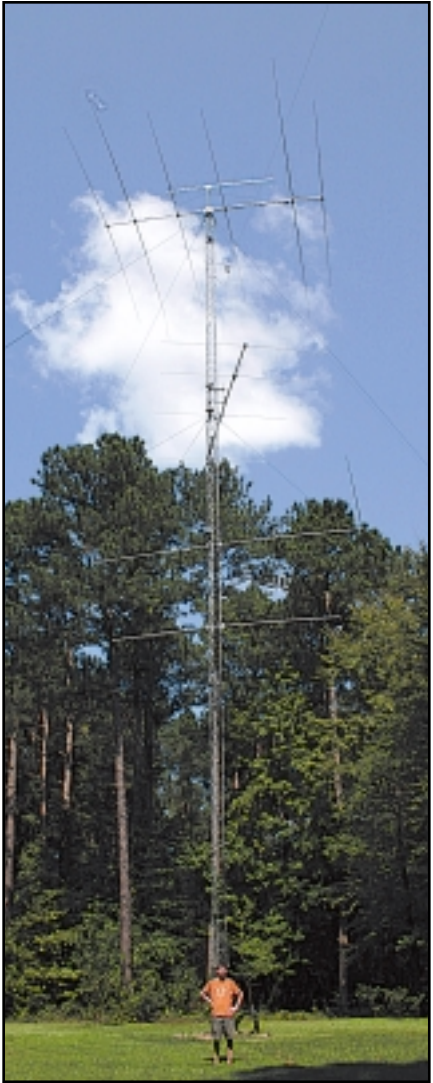


Photo C. Tor, N4OGW, used this fine antenna system to win the U.S. Low Power plaque while signing KD5DD.



QTH in Connecticut. Bob, N5WA, in Texas, was the top U.S. Photo D. Victor, UY5VA, posted a fine Low Power score from Ukraine, good enough for second place in Europe.

## 2017 CQWW WPX SSB TROPHY WINNERS AND DONORS

### SINGLE OPERATOR ALL BAND

**WORLD:** Steve Bolia, N8BJQ Trophy. Won by: **8P5A operated by Tom Georgens, W2SC**  
**WORLD Low Power:** Caribbean Contesting Consortium Trophy. Won by: **3V8SS operated by Ashraf Chaabane, KF5EYY**  
**WORLD QRP:** Bill Parker, W8QZA Trophy. Won by: **Gernot Trautmann, DF5RF**

**USA:** Dennis Motschenbacher, K7BV Trophy. Won by: **NR3X/1 operated by Nate Moreschi, N4YDU**  
**USA Low Power:** Ken Boasi, N2ZN Trophy. Won by: **KD5DD operated by Torsten Clay, N4OGW**  
**USA QRP:** John T. Laney, K4BAI Trophy. Won by: **W6YX operated by Mike Heideman, N7MH**  
**USA Zone 3 High Power:** Northern California Contest Club Trophy. Won by: **NF6A operated by Bob Wolbert, K6XX**  
**USA Zone 3 Low Power:** Arizona Outlaws Contest Club Trophy. Won by: **Willie L Baber, WJ9B/7**  
**USA Zone 4 High Power:** Society of Midwest Contesters Trophy. Won by: **Bob Evans, K5WA**  
**USA Zone 4 Low Power:** Society of Midwest Contesters Trophy. Awarded to: **Tom McGinley, K7QA\***  
**USA Zone 5 High Power:** Paul Obert, K8PO Trophy. Awarded to: **Robert L. Shohet, KQ2M/1\***

**EUROPE High Power:** Ivo Pezer, 5B4ADA/9A3A Trophy. Won by: **CR6K, operated by Filipe Lopes, CT1ILT**  
**EUROPE Low Power:** Vitor Santos, PY2NY Trophy. Won by: **Mindaugas Jukna, LY4L**  
**EUROPE QRP:** Bruce Olney, WY7N Trophy. Awarded to: **HG6C, operated by Gulyas Imre, HA6IAM\***

**AFRICA:** Chris Terkla, N1XS Trophy. Awarded to: **Juan Hidalgo, EG8CID\***  
**ASIA:** Rick Tavan, N6XI Trophy. Won by: **UPØ, operated by Vladimir Vinichenko, UN9LW**  
**NORTH AMERICA:** Louisiana Contest Club Trophy. Awarded to: **KP2M, operated by Philip Allardice, KT3Y\***  
**NORTH AMERICA Low Power:** Dick Green, WC1M Trophy. Won by: **John Getz, AD8J/HR9**  
**NORTH AMERICA QRP:** Dale Martin, KG5U Trophy. Won by: **Bill Meacham, KP4SX**  
**OCEANIA High Power:** Lloyd Cabral, KH6LC Trophy. Won by: **Kevin Smith, VK6LW**  
**OCEANIA Low Power:** Wes Printz, W3SE/ZL3TE Trophy. Won by: **Kent Carlson, KH6CJJ**  
**SOUTH AMERICA:** Cristian Vasquez, CE3PDF Trophy. Won by: **PJ2T operated by Jim Fitzpatrick, WI9WI**  
**SOUTHERN CONE (CE, CX, LU) Low Power:** LU Contest Group Trophy. Won by: **CB3R operated by Dercel Gonzalez Williams, CE3KHZ**  
**CANADA High Power:** Radio Amateurs of Canada (RAC) Trophy. Won by: **VY2TT, operated by Ken Widelitz, K6LA**  
**CANADA Low Power:** Contest Club Ontario Trophy. Won by: **CF3FF, operated by Igor Mordick, VA3FF**  
**JAPAN:** Wes Printz, W3SE/ZL3TE Trophy. Won by: **Masaki Okano, JH4UYB**

### SINGLE OPERATOR, SINGLE BAND

**WORLD 28 MHz:** Steve Hodgson, ZC4LI Trophy. Won by: **PR2F, operated by Rafael Oliveira Martins, PY2NDX**  
**WORLD 28 MHz Low Power:** Six Stars Contest Station LS1D Trophy. Won by: **Mikhail Dukhovny, 4Z5LU**  
**WORLD 21 MHz:** Andrei Stchislenok, NP3D Trophy. Won by: **Henrique Umeoka, PP5NY**  
**WORLD 14 MHz:** Gene Walsh, N2AA Trophy. Won by: **Jorge Prieto, HK1R**  
**WORLD 7 MHz:** LZ2RF Memorial (OR2F sponsor) Trophy. Won by: **TI5W, operated by Kam Sirageldin, N3KS**  
**WORLD 3.5 MHz:** Ranko Boca, 4O3A Trophy. Won by: **Vlado Lesjak, E7ØT**  
**WORLD 1.8 MHz:** Dusko Dumanovic, ZL3WW Trophy. Won by: **Algirdas Uzdonas, LY7M**

**USA 21 MHz:** Charlie Wooten, NF4A Trophy. Won by: **Fritz Reuning, K4OAAQ**  
**USA 14 MHz:** Kansas City DX Club Trophy. Won by: **Carol Richards, N2MM**  
**USA 7 MHz:** Darin Divinia, WG5J Trophy. Won by: **WQ5MM, operated by Victor Petcherkin, N8OO**  
**USA 3.5 MHz:** Wes Printz, W3SE/ZL3TE Trophy. Won by: **Steven Sussman, W3BGN**

**EUROPE 3.5 MHz:** Ranko Boca, 4O3A Trophy. Awarded to: **Igor Didovic, S57Z\***

### SINGLE OPERATOR ASSISTED

**WORLD:** D4C Station Trophy. Won by: **PS2T, operated by Atilano de Omsigallo, PY2YU**  
**WORLD QRP:** Explorers Radio Club Trophy. Won by: **DM2M, operated by Pit Schmidt, DK3WE**  
**USA:** Ron Sigismonti, N3RS Trophy. Won by: **NW7R, operated by Dave Sumner, K1ZZ**  
**EUROPE:** Martin Huml, OL5Y Trophy. Won by: **SN7Q, operated by Krzysztof Sobon, SP7GIQ**

score west of CQ zone 5. Filipe, CT1ILT, was at the controls of CR6K, the top European station (*Photo B*).

The most popular category by far remains the single-operator unassisted low-power all-band class. Ash, 3V8SS; and Vladimir, R8WF, took advantage of their 3-point locations to take the top two slots. The top U.S. station was KD5DD, operated by Tor, N4OGW (*Photo C*). He placed fourth in the world, just behind LY4L, the top European.

### Single-Operator Single Band

PR2F (PY2NDX, op) ran away from everyone on 10 meters, with a score nearly ten times his competitors. Three Israeli stations, 4X4DZ, 4XØA, and 4Z5LU (low power) were the next three highest scorers on 10 meters. PP5NY edged WP3C on 15.

Another South American station, HK1R, took 20-meter honors while N2MM used 20 meters to post the highest U.S. single-band score. Kam, N3KS, keyed TI5W to the top of the 40-meter hill with the highest score of any single-band entry. E7ØT and S57Z broke the million-point barrier on 80 meters, while four Lithuanian stations, led by LY7M, swept top-band bragging rights.

**OCEANIA:** Sid Caesar, NH7C Trophy. Won by: **NHØJ, operated by Michal Tomec, OK7MT**  
**CANADA:** Tom Haavisto, VE3CX Trophy. Won by: **John Sluymmer, VE3EJ**  
**CHINA:** LZ9W Contest Team Trophy. Won by: **Yan Bing, BA8BA**

### OVERLAY CATEGORIES

**USA Tribander/Single-Element:** Paul Newberry, N4PN Trophy. Won by: **Tim Shoppa, N3QE**  
**Europe Tribander/Single-Element:** Matija Brodnik, S53MMTrophy. Won by: **Milos Stankovic, S53X**  
**WORLD Rookie:** Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **Xenia Berger, ZL4YL**  
**NORTH AMERICA Rookie:** Chris Kantarjiev, K6DBG Trophy. Won by: **John L. McVey, K4AFE**

### MULTI-OPERATOR, SINGLE-TRANSMITTER

**WORLD:** Steve Miller, NØSM Trophy. Won by: **JT5DX operated by 9A5K, JT1CO, JT1DO, JT7OB, K1LZ, K1ZM, K3JO, RN5M, and S55M**  
**WORLD-Low Power:** Mike Goode, N9NS Memorial by Hoosier DX and Contest Club Trophy. Won By: **CT9/R7KW operated by R7KW and YL3JM**  
**USA:** Phil Allardice, KT3Y Trophy. Won by: **KN7NV/Ø operated by KØRF, K7NV, and WØUA**  
**AFRICA:** Rhein Ruhr DX Association Trophy. Won by: **not awarded**  
**ASIA:** W2MIG Memorial (NX7TT Sponsor) Trophy. Awarded to: **4X7R operated by 4X6FR and KL7SB\***  
**EUROPE:** YO3CTK Memorial by Andy Ruse YO3JR/YR1ATrophy. Won by: **9A7A operated by 9A7V, 9A5X 9A3TR, and 9A3OS**  
**EUROPE-Low Power:** LZ2PO Memorial by LZ9W Contest Team Trophy. Won by: **EF3T operated by EA3AKA, EA3CCN, EA3CX, EA3KX, EA3NO, and EA3VN**  
**NORTH AMERICA:** Kansas City DX Club. Won by: **VP5M operated by K4BAI and K4QPL**

### MULTI-OPERATOR, TWO-TRANSMITTER

**WORLD:** UA1DZ Memorial (W3UA Sponsor) Trophy. Won by: **P33W operated by LZ2HM, R4FO, RA2FA, UA4FER, RW4WR, and RA3AUU**  
**USA:** Florida Contest Group Trophy. Won by: **K3LR operated by K3LR, DL1QQ, N2NC, DK2OY, and K3UA**  
**EUROPE:** Tom Georgens, W2SC Trophy. Won by: **I9P operated by IT9EQO, IZ8JAI, IT9CJC, IT9CHU, IT9AUG, IT9GSF, IT9WNU, IV3YYK, YL2KL, LY5W, and IZ1YPP**  
**CHINA:** Andrey Sachkov, LZ2HM Trophy. Won by: **B1Z operated by BA1AAX, BA1RB, BA1GA, BD3MH, BD1RX, and BD1GO**

### MULTI-OPERATOR, MULTI-TRANSMITTER

**WORLD:** Steve Merchant, K6AW Trophy. Won by: **9A1A operated by 9A5W, 9A9A, 9A6A, 9A7R, 9A5E, 9A2EU, 9A7DR, 9A8A, 9A6M, and IZ8FWN**  
**USA:** Jim Reisert, AD1C Trophy. Won by: **NR4M operated by K7SV, N3AIU, KA4RRU, CE2MVF, KO8SCA, N3UA, YO3JR, K4GM, NR4M, N2YO, KG3V, KN4DEB, W7IY, and K4GMH**  
**EUROPE:** Jeff Demers, N1SNB Trophy. Awarded to: **LZ9W operated by LZ1ANA, LZ1BJ, LZ1FG, LZ1PM, LZ1UQ, LZ1VLS, LZ1ZD, LZ2CJ, LZ2HQ, LZ2UU, LZ3FM, LZ3RR, LZ3UM, and LZ5FF\***

### CONTEST EXPEDITION

**WORLD:** Phil Goetz, N6ZZ Memorial by Paul Goetz Trophy. Won by: **E51DWC operated by Milan Vobornik, OK1DWC**

### COMBINED AWARDS

**WORLD Single Operator Combined Score:** (SSB and CW) Yuri Blanarovich, K3BU Trophy. Won by: **8P5A operated by Tom Georgens, W2SC**  
**USA Single Operator Combined Score:** (SSB and CW) Bill Fisher W4AN Memorial (KM3T Sponsor). Won by: **Robert L. Shohet, KQ2M/1**  
**WORLD Single Operator Combined Prefixes:** Norm Koch, WN5N Memorial by Gail M. Sheehan, K2RED Trophy. Won by: **8P5A operated by Tom Georgens, W2SC (2,323 total)**  
**CQ WPX Contest Triathlon Award:** (Single Operator Combined Score on RTTY, SSB, and CW). Rudy Bakalov, N2WQ Trophy. Won by: **Victor Yarovoy, UW1M (22,201,802 points, 8,979 QSOs)**  
**WORLD Club Score:** CQ Magazine trophy. Won by: **Bavarian Contest Club**

*\*Denotes awarded to runner-up in category*

while four Lithuanian stations, led by LY7M, swept top-band bragging rights.

### Single-Operator Assisted

A total of 1,772 single operator entries reported using QSO alerting assistance. PS2T (PY2YU, op) edged SN7Q (SP7GIQ, op) for the top all-band assisted score. NW7R/1 (K1ZZ, op), won the U.S. crown, beating N3RS to the tape.

John, W2GD, keyed P4W to the world-high all band low power assisted score. WQ2N/3 gets U.S. low power assisted bragging rights, while KS1J edged WJ4X (N4XL, op) for second place.

### Single-Operator QRP

Some 334 determined individuals used 5 watts or less to make their point(s), an increase of 10%. These

people don't let propagation conditions hamper their quest for points. DF5RF is the new world QRP champ. W6YX (N7MH) beat last year's U.S. champ, N7IR. DM2M (DK3WE) topped last year's winner OK2FD in the assisted QRP competition. NO4GA (W4QQ, op) had the top assisted QRP score among U.S. operators. Unlike the high- and low-power categories, the QRP assisted winners in the worldwide category had substantially higher scores than the unassisted operators.

### Overlay Categories

The Rookie overlay category was established to encourage recently-licensed hams to try the contest experience. This year, 59 entries checked this overlay category. About half of the Rookies entered an assisted category with most choosing to use low power.

2017 CQWW WPX CW TOP SCORES

WORLD

Single Op All Band High Power			Single Op 7 MHz Low Power		
8P5A (W2SC)	13,899,526		FY5KE (F6FVY)	4,088,032	
UP0L (UN9LW)	12,798,242		CT3KN	3,343,074	
KP2M (KT3Y)	12,303,045		YU1RA	2,269,344	
UP2L (UN4L)	11,715,590		Single Op 3.5 MHz Low Power		
VY2TT (K6LA)/1	9,653,025		4L2M	924,462	
Single Op 28 MHz High Power			LY2BMX	617,274	
PR2F (PY2NDX)	445,269		9A4QV	484,584	
4X4DZ	47,376		Single Op 1.8 MHz Low Power		
4X0A	43,382		E79EA	85,500	
Single Op 21 MHz High Power			EU3AC	85,459	
PP5NY	1,840,245		OK1JOK	67,301	
WP3C	1,799,755		Single Op All Band High Power Assisted		
E77A	1,159,977		PS2T (PY2YU)	8,625,760	
Single Op 14 MHz High Power			SN7Q (SP7GIO)	8,541,027	
HK1R	5,059,524		VE3EJ	7,903,560	
OH8X (OH6UM)	4,619,740		RG9A	7,902,276	
E77W	3,896,536		RM9I	7,717,512	
Single Op 7 MHz High Power			Single Op 28 MHz High Power Assisted		
T15W (N3KS)	7,012,980		PY2KJ	164,358	
YT7A (YU7DW)	4,456,179		9A2AJ	74,025	
4Z4AK	4,385,945		EA3NT	73,800	
Single Op 3.5 MHz High Power			Single Op 21 MHz High Power Assisted		
E70T	1,234,770		4M1K (YV1KK)	2,048,969	
S57Z	1,084,260		PP5KR	1,392,096	
YW4D (YV1DIG)	966,394		BA8BA	586,454	
Single Op 1.8 MHz High Power			Single Op 14 MHz High Power Assisted		
LY7M	314,565		LY80	4,018,392	
LY2NK	192,236		YT3X (YT1NP)	3,711,130	
LY2Z0	145,996		UT4U (UT5UJO)	3,365,486	
Single Op All Band Low Power			Single Op 7 MHz High Power Assisted		
3V8SS (KF5EYY)	5,731,794		HA3NU	5,630,475	
R8WF	3,865,155		UB7K	5,527,144	
LY4L	3,519,450		SN3A (SP3HLM)	4,705,844	
KD5DD (N4OGW)	2,726,246		Single Op 3.5 MHz High Power Assisted		
UY5VA	2,311,932		S57AW	1,749,216	
Single Op 28 MHz Low Power			I11A (IZ1LBG)	1,484,075	
4Z5LU	30,330		S52AW	1,271,891	
KN4Y	28,084		Single Op 1.8 MHz High Power Assisted		
DL9ZP	12,954		HG8R (HA8JV)	276,360	
Single Op 21 MHz Low Power			YR9F (Y09FNP)	224,316	
YT9W	369,585		Y05AJR	162,675	
LZ9V	142,830		Single Op All Band Low Power Assisted		
JP1XV	109,782		P40W (W2GD)	6,700,944	
Single Op 14 MHz Low Power					
WB4TDH	959,370				
IF9A (IT9PPG)	885,654				
UA3ABJ	816,208				

Multi-Single Low Power			Single Op 7 MHz QRP		
CT9/R7KW	7,809,984		4M5EN (YV5EN)	289,380	
EF3T	5,971,812		LA/LY5G (LY5G)	223,957	
VP5M	5,761,900		Y08RIX	206,773	
9A7T	3,110,490		Single Op 3.5 MHz QRP		
A45XR	6,840		OK5WF	177,072	
Single Op 21 MHz High Power			HG50 (HA50B)	109,592	
WN1GIV (N4BP)/4	515,214		ES1CW	78,995	
IZ8EPX	327,248		Single Op 1.8 MHz QRP		
WD5K	301,302		E77Y	77,175	
Single Op 14 MHz High Power			HA5NB	57,096	
K9OM	2,351,200		S53AR	39,204	
YT1HA	1,283,508		Single Op All Band QRP Assisted		
UA9LAO	1,270,120		DM2M (DK3WE)	1,718,432	
Single Op 7 MHz High Power			OK2FD	1,701,392	
IP0TRC (IK0YVV)	2,054,085		IZ8JFL	1,355,253	
OG25YL	1,387,872		LZ45YE (LZ1YE)	1,153,380	
S58WW	1,107,162		YU1WC	660,474	
Single Op 3.5 MHz High Power			Single Op 28 MHz QRP Assisted		
I11A (IZ1LBG)	1,484,075		S51Z	5,063	
EU4E	855,110		S51WND (S50XX)	3,723	
Single Op 1.8 MHz High Power			3G30 (CE30P)	1,680	
LY4T	110,905		Single Op 21 MHz QRP Assisted		
RW9CD	9,280		JE1CKA	80,750	
WN20 (N2GC)	6,254		IZ3NVR	66,248	
Single Op 7 MHz High Power			S55W (S50XX)	23,436	
ZL4YL	3,986,352		Single Op 14 MHz QRP Assisted		
Single Op All Band Low Power			E74Y	570,650	
K2MV	206,592		LZ5Z (LZ3DX)	404,088	
DS1SV	135,437		MM0LGS	119,928	
R4WBF	128,520		Single Op 7 MHz QRP Assisted		
Single Op 21 MHz Low Power			LY5T	692,012	
YD1SDL/2 (YD1SDL)	731,584		UT3EK	318,176	
YD2YOE	33,812		HA4FY	236,402	
JMBGJB	2,870		Single Op 3.5 MHz QRP Assisted		
Single Op 14 MHz Low Power			E740	347,705	
YU3EEA	155,940		Y08WW	75,205	
UT8IBU	65,200		YT7AW	72,570	
IT9NAN	34,121		Single Op 1.8 MHz QRP Assisted		
Single Op 7 MHz Low Power			OL1A (OK1CW)	147,955	
9A6TT	324,362		Y07CVL	18,655	
Y02NWWW	87,711		HA7JOK	1,860	
RV3VR	77,976		Multi-Single High Power		
Single Op 3.5 MHz QRP			JT5DX	13,555,239	
E72MD	46,704		4X7R	11,406,102	
OK2STM	3,024		9A7A	10,966,224	
Tribander/Single Element			S50C	9,543,436	
Single Op All Band High Power			OL3Z	9,526,270	
VC2W (VA2WA)	7,695,105				
RT9S	6,702,942				
R4RR	6,149,120				

VC3T (VE3DZ)	5,930,450	Single Op 1.8 MHz Low Power	
S53X	3,914,067	HG0R (HA0NAR)	206,658
Single Op 28 MHz High Power		OK5ZZ	117,104
4X0A	43,382	HA5NB	57,096
IT9SSI	11,352	Single Op All Band High Power Assisted	
A45XR	6,840	WN7R (K1ZZ)/1	7,676,825
Single Op 21 MHz High Power		N3RS	7,234,136
WN1GIV (N4BP)/4	515,214	K3WW	5,605,562
IZ8EPX	327,248	AB3CX/2	5,525,982
WD5K	301,302	WC1M	5,204,029
Single Op 14 MHz High Power		Single Op 21 MHz High Power Assisted	
K9OM	2,351,200	WN1GIV (N4BP)/4	515,214
YT1HA	1,283,508	KE1B/6	194,416
UA9LAO	1,270,120	WZ7ZR	57,782
Single Op 7 MHz High Power		Single Op 14 MHz High Power Assisted	
IP0TRC (IK0YVV)	2,054,085	K9OM	2,351,200
OG25YL	1,387,872	K0LUZ/4	1,815,565
S58WW	1,107,162	KK5I (W5CW)	1,722,967
Single Op 3.5 MHz High Power		Single Op 7 MHz High Power Assisted	
I11A (IZ1LBG)	1,484,075	W5GDx	11,130
EU4E	855,110	Single Op 3.5 MHz High Power Assisted	
Single Op 1.8 MHz High Power		N9LQ	11,970
LY4T	110,905	Single Op 1.8 MHz High Power Assisted	
RW9CD	9,280	AA1K/3	17,617
WN20 (N2GC)	6,254	Single Op All Band Low Power Assisted	
Single Op 7 MHz High Power		WQ2N/3	2,176,551
3V8SS (KF5EYY)	5,731,794	KS1J	1,857,033
UT4LW	2,897,622	WJ4X (N4XL)	1,824,634
UV7V (UX1VT)	2,856,596	N8BJQ	1,122,062
DL3JAN	2,680,577	NZ3D	818,181
R7MM	2,662,140	Single Op 28 MHz Low Power Assisted	
Single Op 28 MHz Low Power		N3UA/4	2,394
DL9ZP	12,954	Single Op 14 MHz Low Power Assisted	
SU9JG (EA7TN)	11,913	KM4HI	531,692
M6W (G3WWV)	6,762	WW2P	159,120
Single Op 21 MHz Low Power		NA5J	144,300
LW8DO	287,260	Single Op 7 MHz Low Power Assisted	
F5VMN	108,045	NJ1T	150,311
9A3R	55,080	WA2JQK	64,532
Single Op 14 MHz Low Power		N9LJX	14,700
IT9RBW	953,678	Single Op 3.5 MHz Low Power Assisted	
S54X	930,696	AB1J	16,492
HA5PP	888,879	K3NDM	13,056
Single Op 7 MHz Low Power		K4WW	5,457
CT3KN	3,343,074	Single Op 3.5 MHz Low Power	
E77AW	1,658,400	K9UIY	32,132
LZ7DX	667,152		
Single Op 3.5 MHz Low Power			
YU0U	710,436		
S57KM	595,680		
R2017CC (R6CC)	352,440		

Single Op 1.8 MHz Low Power		Single Op 1.8 MHz Low Power Assisted		Rookie	
NA4W (K4WI)	1,107	K2XR/3	7,018	Single Op All Band High Power	
Single Op All Band High Power Assisted				K4AFE	275,082
Single Op All Band QRP				Single Op All Band Low Power	
NW7R (K1ZZ)/1	7,676,825	W6YX (N7MH)	572,088	K2MV	206,592
N3RS	7,234,136	N7IR	495,198	KE8EAS	50,596
K3WW	5,605,562	K2YGM	271,065	W4LTE	30,504
AB3CX/2	5,525,982	W6OU (W8QZA)	249,400	K8PJK	19,275
WC1M	5,204,029	N0KE	191,100	K5TMT	4,752
Single Op 21 MHz High Power Assisted		Single Op 21 MHz QRP		Tribander/Single Element	
WN1GIV (N4BP)/4	515,214	WA6FGV	8,540	Single Op All Band High Power	
KE1B/6	194,416	Single Op 14 MHz QRP		N3OE	3,609,822
WZ7ZR	57,782	W5LA	44,092	K3EL/2	3,205,378
Single Op 14 MHz High Power Assisted		N3HCN	34,980	W4ML (W4MYA)	2,129,400
K9OM	2,351,200	KU7Y	24,888	K3WJV	1,815,429
K0LUZ/4	1,815,565	Single Op 7 MHz QRP		N6JV	1,697,646
KK5I (W5CW)	1,722,967	W8NNC	5,529	Single Op 21 MHz High Power	
Single Op 7 MHz High Power Assisted		Single Op All Band QRP Assisted		WN1GIV (N4BP)/4	515,214
W5GDx	11,130	N04GA (W4QO)	186,967	WD5K	301,302
Single Op 3.5 MHz High Power Assisted		N3HEE	17,040	KE1B/6	194,416
N9LQ	11,970	N5PJ	7,772	Single Op 14 MHz High Power	
Single Op 1.8 MHz High Power Assisted		KN4VV	4,560	K9OM	2,351,200
AA1K/3	17,617	K8ZT	3,724	WF3T/4	441,910
Single Op All Band Low Power Assisted		Single Op 14 MHz QRP Assisted		W9ILY	337,227
WQ2N/3	2,176,551	NG6O (K6GHA)	53,048	Single Op 7 MHz High Power	
KS1J	1,857,033	K2AL	14,670	K9CC	376,194
WJ4X (N4XL)	1,824,634	Single Op 7 MHz QRP Assisted		K9CJ	201,780
N8BJQ	1,122,062	K3TW/4	65,532	W9AKS	3,950
NZ3D	818,181	NK5G	8,151	Single Op 3.5 MHz High Power	
Single Op 28 MHz Low Power Assisted		KC9EE	5,280	N9LQ	11,970
N3UA/4	2,394	Single Op 3.5 MHz QRP Assisted		Single Op 1.8 MHz High Power	
Single Op 14 MHz Low Power Assisted		N9TF	1,352	WN20 (N2GC)	6,254
KM4HI	531,692	Multi-Single High Power		Single Op All Band Low Power	
WW2P	159,120	KN7NV/O	6,155,625	KS1J	1,857,033
NA5J	144,300	N4VWV	6,091,133	WC4E/1	1,016,624
Single Op 7 MHz Low Power Assisted		WK7S	4,952,101	NZ3D	818,181
NJ1T	150,311	W3LL	4,560,991	Single Op 14 MHz Low Power	
WA2JQK	64,532	NG7A	3,598,257	KM4HI	531,692
N9LJX	14,700	Multi-Single Low Power		AA7CR (W7VO)	126,711
Single Op 3.5 MHz Low Power Assisted		NY5B	695,016	W2JC	108,114
AB1J	16,492	K0UK	515,660	Single Op 7 MHz Low Power	
K3NDM	13,056	Multi-Two		N4KS	522,753
K4WW	5,457	K3LR	12,831,884	K11S	359,828
		K9CT	9,610,758	WB1Q	238,680
		WQ6X	7,022,757	Single Op 3.5 MHz Low Power	
		KC7V	6,840,460	AB1J	16,492
		KE1S	4,156,908	K3NDM	13,056
Single Op 3.5 MHz Low Power Assisted		Multi-Multi			
AB1J	16,492	NR4M	15,248,167		
K3NDM	13,056	NA6O	8,634,172		
K4WW	5,457	KU1CW/4	7,143,507		
		WX3B	4,041,278		

UV7V to receive the plaque. KS1J paced the U.S. low-power group.

## Multi-Operator

There seems to be a different station atop the Multi-Single category every year. This time, the group at JT5DX grabbed the top spot over 4X7R. Log checking again proved to be the

difference as KN7NV/0 moved past N4WW to become the U.S. champs. CT9/R7KW wins the plaque in the Multi-Single Low Power category, beating out EF3T (*Photos F and G*).

P33W repeated as the Multi-Two winner. They were running above last year's world record pace until the propagation wheels fell off on the second day. K3LR made a surprise appearance to take home the U.S. plaque.

## CLUB SCORES

### UNITED STATES

Club	# Entrants	Score
POTOMAC VALLEY RADIO CLUB.....	142	153,347,780
YANKEE CLIPPER CONTEST CLUB.....	84	99,852,818
NORTHERN CALIFORNIA CONTEST CLUB.....	101	88,559,142
FRANKFORD RADIO CLUB.....	71	78,440,639
FLORIDA CONTEST GROUP.....	55	53,132,581
SOCIETY OF MIDWEST CONTESTERS.....	81	49,212,168
ARIZONA OUTLAWS CONTEST CLUB.....	51	29,655,778
SOUTHERN CALIFORNIA CONTEST CLUB.....	33	20,938,710
DFW CONTEST GROUP.....	24	20,070,891
CENTRAL TEXAS DX AND CONTEST CLUB.....	11	18,904,120
GRAND MESA CONTESTERS OF COLORADO.....	13	15,890,102
NORTH COAST CONTESTERS.....	15	15,334,557
GEORGIA CONTEST GROUP.....	12	13,964,586
WILLAMETTE VALLEY DX CLUB.....	27	13,900,580
SOUTH EAST CONTEST CLUB.....	27	13,795,547
MAD RIVER RADIO CLUB.....	18	13,005,347
ALABAMA CONTEST GROUP.....	15	12,302,862
WESTERN WASHINGTON DX CLUB.....	21	9,755,793
TENNESSEE CONTEST GROUP.....	21	9,083,618
HUDSON VALLEY CONTESTERS AND DXERS.....	20	6,235,312
MINNESOTA WIRELESS ASSN.....	42	6,226,301
TEXAS DX SOCIETY.....	10	5,876,708
DEEP DIXIE CONTEST CLUB.....	7	4,239,116
NE MARYLAND AMATEUR RADIO CONTEST SOCIETY.....	15	3,161,161
LOUISIANA CONTEST CLUB.....	7	2,932,649
LA CONTEST CLUB.....	9	2,576,200
PORTAGE COUNTY AMATEUR RADIO SERVICE.....	6	2,232,296
KANSAS CITY CONTEST CLUB.....	7	2,213,785
BIG SKY CONTESTERS.....	9	2,187,939
NIAGARA FRONTIER RADIOSPORT.....	9	1,941,606
NORTHEAST WISCONSIN DX ASSN.....	6	1,852,392
NORTH TEXAS CONTEST CLUB.....	6	1,833,910
SWAMP FOX CONTEST GROUP.....	12	1,739,990
ROCHESTER (NY) DX ASSN.....	11	1,223,091
SHENANDOAH VALLEY WIRELESS.....	6	1,083,270
KENTUCKY CONTEST GROUP.....	12	1,074,506
ORDER OF BOILED OWLS OF NEW YORK.....	6	959,329
METRO DX CLUB.....	10	913,920
BERGEN ARA.....	4	824,855
WEST PARK RADIOPS.....	6	744,152
SCHENECTADY MUSEUM ARA.....	4	660,219
NORTH CAROLINA DX AND CONTEST CLUB.....	5	477,949
SUNDAY CREEK AMATEUR RADIO FEDERATION.....	5	460,047
MISSISSIPPI VALLEY DX/CONTEST CLUB.....	5	455,619
NORTHERN ARIZONA DX ASSN.....	4	452,733
HILLTOP TRANSMITTING ASSN.....	5	334,628
CAROLINA DX ASSOCIATION.....	9	310,190
MOTHER LODE DX/CONTEST CLUB.....	4	306,108
GREAT SOUTH BAY AMATEUR RADIO CLUB.....	8	237,150
SPOKANE DX ASSOCIATION.....	6	212,764
MILFORD OHIO AMATEUR RADIO CLUB.....	7	160,053
SKYVIEW RADIO SOCIETY.....	6	138,536
NEW PROVIDENCE AMATEUR RADIO CLUB.....	4	66,141
SOUTH TEXAS DX AND CONTEST CLUB.....	5	51,400

### DX

Club	# Entrants	Score
BAVARIAN CONTEST CLUB.....	209	204,172,848
ITALIAN CONTEST CLUB.....	103	189,842,237
EA CONTEST CLUB.....	70	147,196,834
RHEIN RUHR DX ASSOCIATION.....	111	147,025,420
SLOVENIA CONTEST CLUB.....	39	95,263,809
UKRAINIAN CONTEST CLUB.....	114	93,383,748
ARAUCARIA DX GROUP.....	36	85,447,971
CONTEST CLUB ONTARIO.....	60	82,543,576
CROATIAN CONTEST CLUB.....	38	82,511,730
RUSSIAN CONTEST CLUB.....	45	57,214,443
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB.....	43	56,988,188
HA-DX-CLUB.....	19	53,465,063
CONTEST CLUB FINLAND.....	49	43,160,295
CONTEST CLUB SERBIA.....	57	35,514,853
BELARUS CONTEST CLUB.....	28	30,790,139
VK CONTEST CLUB.....	20	30,558,851
LATVIAN CONTEST CLUB.....	22	28,901,425
LU CONTEST GROUP.....	25	28,671,091
MARITIME CONTEST CLUB.....	17	26,171,614
URAL CONTEST GROUP.....	20	26,073,535
BOSNIA AND HERZEGOVINA CONTEST CLUB.....	11	25,986,166
ARABIAN GULF DX GROUP.....	9	24,199,641
CHILTERN DX CLUB.....	17	22,541,585
CONTEST GROUP DU QUEBEC.....	11	22,259,365

SP DX CLUB.....	46	19,451,952
RIO DX GROUP.....	31	17,654,832
YB LAND DX CLUB.....	61	17,630,900
SOUTH URAL CONTEST CLUB.....	15	17,200,110
WEST SERBIA CONTEST CLUB.....	12	16,682,831
THRACIAN ROSE CLUB.....	43	15,811,408
ORCA DX AND CONTEST CLUB.....	19	15,731,664
BELOKRANJEC CONTEST CLUB.....	9	15,079,171
SAUDI CONTEST GROUP.....	7	14,445,216
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB.....	13	13,215,578
RADIO CLUB VENEZOLANO CARACAS.....	12	12,506,766
RUSSIAN CW CLUB.....	30	12,452,581
LITHUANIAN CONTEST GROUP.....	5	11,917,214
CLIPPERTON DX CLUB.....	9	11,762,374
CDR GROUP.....	47	11,403,001
ANTWERP CONTEST CLUB.....	4	10,423,747
GUARA DX GROUP.....	8	10,018,554
DONBASS CONTEST CLUB.....	14	7,884,491
NOVOKUZNETSK RADIO CLUB.....	14	7,861,442
VRHNIKA CONTESTERS.....	8	7,651,750
RADIOSPORT MANITOBA.....	5	7,497,982
RIIHIMAEN KOLMOSET.....	8	7,104,769
RADIO AMATEUR ASSOCIATION OF WESTERN GREECE.....	4	7,049,410
CTRI CONTEST GROUP.....	5	6,620,028
Z37M CONTEST TEAM.....	7	6,519,878
DANISH DX GROUP.....	17	6,192,299
SIAM DX GROUP.....	13	6,075,698
CRIMEAN CONTEST CLUB.....	6	5,825,545
SHAKHAN CONTEST CLUB.....	5	5,601,502
BLACK SEA CONTEST CLUB.....	18	5,239,457
OMSK RADIO CLUB.....	6	4,787,093
YO DX CLUB.....	14	4,357,855
SRR.....	5	4,100,056
RU-QRP CLUB.....	10	4,078,298
ARKTIKA.....	8	3,221,066
OBNINSK QRU CLUB.....	5	2,987,549
RADIO CLUB PARMA.....	4	2,732,915
GIPANIS CONTEST GROUP.....	7	2,605,970
VU CONTEST GROUP.....	16	2,384,793
ARIPA DX TEAM.....	5	2,215,864
PARA DX GROUP.....	5	2,118,823
ALRS ST PETERSBURG.....	8	1,725,194
IRKUTSK RADIO CLUB.....	4	1,575,793
CLUB DE RADIO EXPERIMENTADORES DE OCCIDENTE.....	4	1,561,482
CE CONTEST GROUP.....	5	1,477,234
GMDX GROUP.....	5	1,141,626
RADIOCLUBUL ROMANIEI.....	5	1,127,911
CSU PITESTI.....	4	1,109,578
YYP CLUB.....	10	1,068,869
599 CONTEST CLUB.....	5	1,065,617
FALKOPINGS RADIOCLUB.....	4	1,024,453
ARCK.....	7	1,013,573
CSTA SUCEAVA.....	4	1,005,901
SPEKTR.....	4	996,427
R4F-DX-G.....	4	949,247
VLADIMIR CONTEST GROUP.....	7	925,177
UA2 CONTEST CLUB.....	5	894,150
UTAH DX ASSOCIATION.....	6	802,022
LES NOUVELLES DX.....	4	771,649
RADIO CLUB KVARNER RIJEKA.....	8	733,592
NNGU SHORTWAVE CLUB.....	5	686,960
AMATEUR RADIO SOCIETY ITALIA.....	10	519,123
VOLYN CONTEST GROUP.....	6	463,247
CS SILVER FOX DEVA.....	4	427,925
CSM CLUJ-NAPOCA.....	5	424,011
KEYMEN'S CLUB OF JAPAN.....	10	382,048
PAPUA CONTEST CLUB.....	12	371,694
CHILEAN PACIFIC DX GROUP.....	6	369,888
CSM CRAIOVA.....	6	334,695
SINGLE FIGHTER DX GROUP.....	12	329,739
KRIVBASS.....	4	230,107
THE AKITA DX ASSOCIATION.....	6	219,061
BAHIA DX GROUP.....	4	188,537
SHARP HAM CLUB.....	8	159,553
ORARI LOKAL BOGOR.....	15	122,158
UR-QRP-CLUB.....	4	121,906
UNIVERSITY OF TOKYO CONTEST CLUB.....	5	121,886
FUCHU AMATEUR RADIO CLUB.....	7	114,779
LA-DX-GROUP.....	4	97,448
SOUTHERN OSAKA CONTEST CLUB.....	4	74,153
MUMBAI AMATEUR RADIO INSTITUTE.....	8	63,809
CABREUVADX.....	6	63,756
SOUTH CELEBES CONTEST CLUB.....	4	55,473
RTTY CONTESTERS OF JAPAN.....	4	55,426
CANTAREIRA DX GROUP.....	4	13,584
ORARI LOKAL KEDIRI.....	13	6,026

# Contesting From New Zealand

BY HOLGER HANNEMANN, ZL3IO



*Xenia, ZL4YL, shared the shack with her father, ZL3IO, who operated as ZM4T on the high bands.*

**A**t our place on the New Zealand coast, my station ZL3IO is also the host/operator of the ZM4T contest station. It's not a K3LR- or W3LPL-type of installation, which is impossible in New Zealand, but I take pride that we are one of the above-average "Kiwi" radio stations. Thanks to the lack of serious competition from VK or other areas, I ended up qualifying as the WRTC Team Leader for the OC2 region. While looking for a teammate, I decided to go with my daughter Xenia, ZL4YL. While we face difficult odds in taking the WRTC crown, we are looking forward to meeting the best of the best in Germany next year.

Xenia is 16 years old now and earned her license in August 2015. She is different from me in that she is very introverted and does not talk a lot. So she prefers operating CW instead of phone and I did not intervene.

As part of our training program in preparation for the WRTC, we participated in the CQWW WPX CW Contest. Xenia was planning a single-band, full-time entry (36 hours) and wanted to challenge the 40-meter record. She did the contest unassisted as Single Operator High Power. The current Oceania & ZL record was set by ZM3A in 2009 with 6.4 million points and is very tough to beat. However, if he could make it why not Xenia? The fallback strategy was to put the log in as Single Operator (assisted) 40-meter High Power. The Oceania record for this category is 3.3 million points, which was set by VK2IM.

We have two 40-meter beams and rearranged the station for Xenia. She had a K3 connected to a stack match and driving two KPA500s, with each amplifier feeding

one of the 40-meter beams. Most of the time, she transmitted on both antennas pointing in different directions and could choose any combination for receiving. With this setup, we were still within the 1-kilowatt limit but she had at least 500 watts per antenna. We had a few test runs the days before and she was happy with the setup.

I used the second K3 barefoot and did a few hundred contacts as well in an all-band entry.

The gods of propagation were not in her favor and she missed out on the second European short path opening. Just when the band was about to open the switch was pulled off. So, after 30 hours into the contest, it was over for her.

Nevertheless, a 4.33 million claimed score is not a bad result and the log was sent in as Single Band, 40-meter Assisted High Power. Now let's see what you guys will leave her with after the log checking. But we hope she has enough margin to set a new OC record in the assisted category. *(She did -N4TZ)*

About midway through the contest, we could already see she would not be able to beat the unassisted record. But she was happy with the result. The biggest motivation to stay focused for her was watching the online scoreboard at <[www.cqcontest.net](http://www.cqcontest.net)>. She started late when others were already hundreds of QSO ahead. But she worked her way up to the top. Her first shift ended after 18 hours in the chair and her being on the top of the 40-meter high power category on the scoreboard. When I woke her up after her break, the first question she asked was what her current standing was on the online scoreboard.



*Xenia, ZL4YL, holding onto the base of the tower. It looks like a long way down if she falls.*



*The antennas at ZL4YL/ZM4T have a commanding view of the ocean. Xenia sure looks happy about their (and her) performance.*

The Multi-multi class also had a repeat champion, 9A1A, with the LZ9W team finishing second. NR4M was the top U.S. station while also coming in fifth place worldwide.

## Club Competition

The Bavarian Contest Club defended its club title from the strong finish of the Italian Contest Club. The Potomac Valley Radio Club was again the top U.S. club; the big news is that the Northern California Contest Club beat out the Yankee Clipper Contest Club for second place.

## Records

Only two changes were made in our All-Time Records box this year. They were UPØL (Asia All Band) and TI5W (North America 7 MHz). That may be the record for fewest records set! Records for all of the various categories and countries can be found at <[www.cqwp.com/records.htm](http://www.cqwp.com/records.htm)>.

## Miscellaneous Statistics

Low-power entries were submitted by 2,165 single-operator stations, a slight decrease from last year, while 1,465 used high power and 323 went QRP, both categories up from a year ago. Overall, unassisted operation was still favored by a majority of the single operators, 2,181 to 1,772. High-power stations favored assisted (831 vs. 634) while low-power operators continue to overwhelmingly endorse the "boy and his radio" style of operation (1,340 unassisted vs. 825 assisted) and the QRP ops voted 207 to 116 for the unassisted style of operation. The proportions of operators making these various "style" choices were very similar to those in the SSB weekend.

## Final Observations

Unfortunately, a number of stations continue to submit their logs after the five-day deadline spelled out in the rules. Some of these would have won certificates and plaques. Logs received after the official deadline are shown in italics in the line scores and are not eligible for any awards. Please help get the word out to your friends and competitors!

Speaking of rules, be sure to check before the contest for updates and revisions. A summary of the rules will be published in CQ with a link to the complete rules published on our contest website <[www.CQWPX.com](http://www.CQWPX.com)>.

There are a number of volunteers who make running and reporting the contest possible. The software support from

K1EA and KM3T is more important than ever with the rapid log adjudication cycle. K3WW and K5ZD helped provide the skilled analysis of the logs that computers alone cannot provide. Doug, K1DG, handles the plaques in a very timely manner. Paper logs were manually entered by N4TZ. K5ZD runs and updates the already outstanding CQ

WPX website and helps with almost every part of running the contest.

The 2018 CQ WPX CW Contest will be held **May 26-27**. The log deadline is five days after the conclusion on the contest, **June 1 at 2359Z**. Updated rules will be announced in the January issue of CQ and will be posted on the <[www.cqwp.com](http://www.cqwp.com)> website.

(Scores on page 100)

## CQ World-Wide WPX CW Contest All-Time Records

The contest is held each year on the last full weekend of March. The All-Time Records will be updated and published annually. Data following the calls: Year of operation, total score, and number of prefix multipliers.

WORLD RECORD HOLDERS				U.S.A. RECORD HOLDERS			
Single Operator				Single Operator			
1.8	IH9/OL5Y('98)	341,068	182	1.8	WV8JR('07)	56,760	132
3.5	TC3D('16)	2,112,711	457	3.5	W3BGN('08)	641,092	332
7.0	3V8CB('10)	10,758,020	805	7.0	KG1D('04)	3,681,828	657
14	UP2L('09)	7,928,886	1043	14	N2NC('06)	5,418,630	915
21	HK1R('15)	8,721,150	1097	21	NU5A('99)	4,411,299	789
28	ZX5J('02)	6,787,440	857	28	WW4M('01)	2,547,046	674
AB	CR3A('15)	21,403,527	1241	AB	KC3R('15)	12,574,257	1121
LP	D41CV('16)	13,881,372	1059	LP	N5AW('15)	6,317,732	989
QRP	P4QW('97)	4,018,208	632	QRP	N2WN/4('12)	1,686,608	592
Assisted	D41CV('16)	13,881,372	1059	Assisted	NY3A('12)	9,923,563	1079
Multi-Operator Single Transmitter				Multi-Operator Single Transmitter			
P33W('15)		35,165,691	1503	KM3T/1('12)		15,311,340	1254
Multi-Operator Two Transmitter				Multi-Operator Two Transmitter			
P33W('16)		42,511,820	1495	NN3L('12)		21,964,974	1362
Multi-Operator Multi-Transmitter				Multi-Operator Multi-Transmitter			
HC8N('99)		54,697,072	1264	NR4M('12)		26,785,984	1426
CLUB RECORD							
Bavarian Contest Club ('12)				441,610,686			
CONTINENTAL RECORD HOLDERS							
AFRICA				SOUTH AMERICA			
1.8	IH9/OL5Y('98)	341,068	182	1.8	HK1R('16)	25,440	60
3.5	7X0RY('08)	1,701,260	407	3.5	YX3A('89)	1,004,060	305
7.0	3V8CB('10)	10,758,020	805	7.0	PJ4A('13)	8,744,862	826
14	6W1SJ('09)	6,755,364	924	14	HK1X('11)	7,254,266	1006
21	CT3KN('15)	7,064,082	1017	21	HK1R('15)	8,721,150	1097
28	ZS4TX('01)	4,602,028	722	28	ZX5J('02)	6,787,440	857
AB	ED8X('16)	19,852,770	1162	AB	PJ4A('11)	16,272,730	1018
ASIA				MULTI-OPERATOR SINGLE TRANSMITTER			
1.8	4X4NJ('96)	259,420	170	AF	CN2AA('16)	34,551,215	1411
3.5	TC3D('16)	2,112,711	457	AS	P33W('15)	35,165,691	1503
7.0	ZC4LI('10)	4,770,336	632	EU	ES9C('15)	18,609,024	1472
14	UP2L('09)	7,928,886	1043	NA	ZF1A('15)	19,649,390	1294
21	4L8A('15)	6,681,246	1014	OC	AH2R('01)	11,541,420	957
28	HZ1AB('02)	3,669,994	659	SA	P49V('01)	19,760,744	1034
AB	UPØL('17)	12,798,242	1013				
EUROPE				MULTI-OPERATOR TWO TRANSMITTER			
1.8	SN7Q('08)	339,542	307	AF	EF8M('07)	33,324,192	1256
3.5	TM5Y('08)	1,983,366	567	AS	P33W('16)	42,511,820	1495
7.0	CT1JLZ('09)	6,075,936	816	EU	OL4A('15)	25,417,163	1579
14	CR2X('15)	6,869,928	1164	NA	NN3L('12)	21,964,974	1362
21	CR1X('12)	7,293,280	1154	OC	KH6LC('12)	17,095,460	1198
28	9HØA('01)	3,965,315	841	SA	PW7T('12)	34,156,451	1457
AB	CR2X('16)	13,738,624	1186				
NORTH AMERICA				MULTI-OPERATOR MULTI-TRANSMITTER			
1.8	VA1A('99)	103,680	120	AF	CQ3L('10)	28,736,154	1173
3.5	FM5BH('97)	833,490	315	AS	A61AJ('02)	42,766,232	1244
7.0	TI5W('17)	7,012,980	810	EU	DR1A('12)	34,790,058	1598
14	N2NC('06)	5,418,630	915	NA	6Y2A('02)	38,821,328	1274
21	ZF1A('99)	5,330,129	799	OC	ZL6QH('04)	16,143,840	1010
28	FM5GU('01)	2,849,769	621	SA	HC8N('99)	54,697,072	1264
AB	8P5A('16)	15,690,486	1162				
OCEANIA				QRP			
1.8	KH6ND('07)	22,100	50	AF	5Y4FO('92)	649,057	311
3.5	KH6ND('09)	596,673	231	AS	ZC4BS('02)	2,515,388	521
7.0	ZM3A('09)	6,437,695	737	EU	LY5A('01)	2,331,414	646
14	KH6ND('03)	4,126,690	730	NA	TI5X('01)	2,568,470	615
21	KH6ND('99)	6,107,256	813	OC	FO8JP('86)	572,131	259
28	KH6ND('00)	1,523,008	424	SA	P4QW('97)	4,018,208	632
AB	KH7XX('15)	12,449,866	1111				