

Results of the 2016 CQWW WPX CW Contest

BY TERRY ZIVNEY, N4TZ

Sunspot numbers may be dropping, but one wouldn't know it from looking at the number of participants in this year's CW weekend of the CQ World Wide WPX Contest. We received 4,228 logs, which is a slight increase over last year. Scores were down on average, but that didn't keep a lot of people from having fun. As Dan, XQ4CW, the operator at CE3AA said, "incredible, bad, good, strange conditions, something always happens with Doña propagation, but the important thing is that we had a good time!"

Thunderstorms are a part of life in the springtime. Rain began to fall before the contest in France where W1NN had set up operations in a 300-year-old windmill (see *Photos A & B*). OK1LL found he had to "park" his tribander among the flowers in the garden for protection from lightning (see *Photo C*). In the states, W8CAR was forced off the air after lightning struck his tower.

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Bert, PA1B, had great fun with QRP and two homebrew indoor cylinder dipoles, out of the way of lightning. On 20 meters he made 3 QSOs and on 15 meters 4 QSOs with a 15-inch cylinder dipole. On 40 meters he made 3 QSOs with a 22-inch cylinder dipole. The PA1B cylinder dipole consists of two cylinders and a coil. The coil acts as an impedance transformer. See Bert and his antenna in *Photo D*.

Björn, SMØMDG, enjoyed his balcony antenna farm while operating as 7SØX. I'm sure you'll enjoy reading about his fun experiences in the sidebar.

Single-Operator All Band

The top four scores came from four different continents. RA1A claimed the top score from ED8X (see *story on ED8X in the 2015 CQWW DX CW Contest elsewhere in this issue – ed.*), and was trailed by 8P5A, CR2X, and P4ØL. N5DX remotely operated the N2QV station under the callsign NN5J to win stateside honors. W9RE, NR7DX (N9RV, op), and NK7U

(KL9A, op) all made the U.S. top 10 from west of CQ zone 5.

The most popular category by far remains the Single-Operator Unassisted Low Power All Band. D41CV (YL2KL, op) ran away from the competition with a score that would have been third place in the high-power category. YW4D (YV1DIG, op) edged out ZF2ET (K5GO, op) for runner-up honors. VY2ZM again was fourth from Canada, narrowly beating the top European, IR4X (IZ3EYZ, op). KC3R (LZ4AX, op) set the U.S. record in the High-Power category last year, but was unable to beat N5AW's record in the Low-Power category this year. Conditions from the heartland were way down this year, as N5AW's score was only half his record from last year.

Single-Operator Single Band

You know the sunspots are declining when most of the big scores on 10 meters are from Europe, where short skip can bring a lot of multipliers. CW4MAX (CX2DK, op) did manage to post the top 10-meter score, but



Photos A & B. Hal, F/W1NN, operated from inside a 300-year-old windmill in France.

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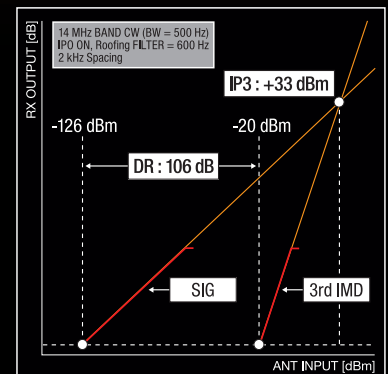
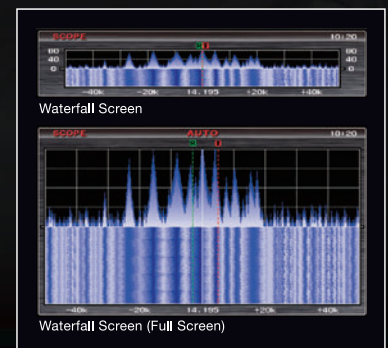
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2016 CQWW WPX CW TOP SCORES

WORLD

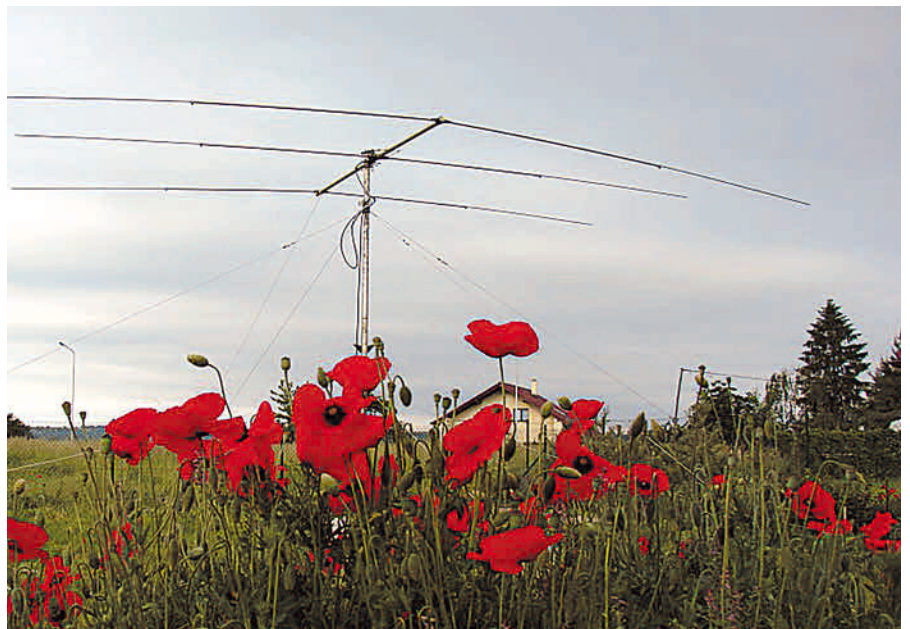
Single Op All Band High Power	UN6LN1,923,434	Single Op All Band Low Power Assisted	JQ1NGT84,150	Multi-Single Low Power	ZF1A10,132,064
ED8X (RA1A)19,852,770	4X6FR1,441,314	P44W (W2GD)8,388,603	RM3G47,031	H13TT6,128,877	YE1ZAT3,064,998
8P5A (W2SC)15,690,486	Single Op 7 MHz Low Power	7Z1SJ7,686,486	Single Op 14 MHz QRP	YT2AAA3,053,430	BA7QT2,981,992
CR2X (OH6KZP)13,738,624	OM3ZWA1,316,890	IQ4T (IK4VET)5,500,234	LY5G627,682	YR5N2,605,575	
P40L (W6LD)12,986,750	RU9CI1,236,240	YT6W5,493,180	US5VX392,496		
KP2M (KT3Y)12,814,103	SP6JJE1,236,174	YT8A (YU1EA)5,310,305	9A2EY309,960	Multi-Two	P33W42,511,820
UP0L (UN9LW)12,456,666	Single Op 3.5 MHz Low Power	NP2P (N2TTA)5,076,285		PX2A20,820,127	HG7T19,316,016
Single Op 28 MHz High Power	LY5I576,222	Single Op 28 MHz Low Power Assisted		LY2W18,611,586	YT5A16,068,407
CW4MAX (CX2DK)613,585	UA5F526,536	UN9GD612,927	Single Op 3.5 MHz QRP	LZ5R15,861,664	
SP5AUY359,966	LY9A502,254	R3DCX202,995	HA5NB122,265		
UA6J353,376	Single Op 1.8 MHz Low Power	UR3CMA163,098	S53AR114,362	Multi-Multi	9A1A30,883,750
Single Op 21 MHz High Power	LZ7J (LZ1CL)54,312	Single Op 21 MHz Low Power Assisted	OKSWF102,711	OL4A28,839,456	OL4A28,839,456
PP5KR3,965,664	OM4WW50,912	EF8C (EA8DDM)1,743,748	Single Op 1.8 MHz QRP	LZ9W23,750,472	NR4M19,116,432
YT0Z (YU1ZZ)3,606,120	E79Z41,712	UR6EA973,700	S57M26,487	DD0CC13,397,580	
4Z4AK (UT7DK)3,179,825	Single Op All Band High Power Assisted	SP1NQN933,660		Rookie	
Single Op 14 MHz High Power	D4C (YL3DW)19,678,770	Single Op 14 MHz Low Power Assisted	Single Op All Band QRP Assisted	UD3D (R2DLM)2,417,680	Single Op All Band High Power
CS2C (OK1RF)6,726,764	SN7Q (SP7GIQ)10,269,990	CN8KD2,456,066	OK2FD2,164,909	WU4NC (W4FS)1,336,725	UD3D (R2DLM)2,417,680
RT5Z (RA3CW)4,208,715	RT9A9,319,065	Y050HO1,742,340	RA3AN1,927,472	UA0DX413,241	WU4NC (W4FS)1,336,725
4L8A4,021,562	S53MM8,996,876	UT1AA1,676,625	DM2M (DK3WE)1,803,600	Single Op 14 MHz High Power	YU7KM96,635
Single Op 7 MHz High Power	HG3R (HA3NU)8,652,150	Single Op 7 MHz Low Power Assisted	Single Op 28 MHz QRP Assisted	OK7PY30,414	Single Op 7 MHz High Power
HC2AO5,012,602	Single Op 28 MHz High Power Assisted	EI6DX2,471,730	HG10CC (HA3JB)206,040	Single Op 3.5 MHz High Power	A61EK79,439
YU8A4,215,240	LZ4TX1,243,275	Y04NF1,729,650	YU1LG/QRP21,840	Single Op All Band Low Power	RU3YAA863,744
S51F3,907,904	RU6AV713,976	UR5LAM1,445,300	Single Op 21 MHz QRP Assisted	VE5SDH371,790	VE5SDH371,790
Single Op 3.5 MHz High Power	SN2M (SP2XF)677,208	Single Op 3.5 MHz Low Power Assisted	HG3C (HA3HX)130,002	AD2KA187,782	AD2KA187,782
TC3D2,112,711	Single Op 21 MHz High Power Assisted	RG5A697,493	UT3WS102,823	W0QQG/4179,231	W0QQG/4179,231
S57Z944,500	S59A3,221,889	E74R678,180	RD3ARU90,972	AB3WS172,080	AB3WS172,080
YL3FT943,326	SN5X (SP5GRM)2,686,810	OL4W (OK1IF)646,845	Single Op 14 MHz QRP Assisted	Single Op 21 MHz Low Power	ZL4YL361,746
Single Op 1.8 MHz High Power	UR7GO2,286,216	Single Op 1.8 MHz Low Power Assisted	LZ8U (LZ2TU)290,864	Single Op 14 MHz Low Power	S58KA224,992
LY7M214,650	Single Op 14 MHz High Power Assisted	S51DX65,920	K3TW/4100,111	Single Op 7 MHz Low Power	UR5NLA11,266
LY52BC (LY4T)175,890	EB8AH (OH6CS)5,965,885	LY1CT45,844	Single Op 7 MHz QRP Assisted	Tribander/Single Element	
Single Op All Band Low Power	S04M (SP5UAF)4,790,415	Single Op All Band QRP	DL1REM1,173,378	Single Op All Band High Power	VE9CB7,614,630
D41CV (YL2KL)13,881,372	SJ2W (SM2LYV)4,522,500	TM3T (F5VBT)1,107,624	EE3X (EA3KX)788,528	RT9S7,142,002	RT9S7,142,002
YW4D (YY1DIG)8,230,086	Single Op 7 MHz High Power Assisted	HG3M (HA3MY)1,087,502	4M5EN (YV5EN)252,348	R4RR6,829,321	R4RR6,829,321
ZF2ET (K5GO)7,910,780	OL8M4,652,436	UA1CUR796,264	Single Op 3.5 MHz QRP Assisted	EW5Z (EU1A)6,338,148	EW5Z (EU1A)6,338,148
YV22M (K1ZM)7,066,384	SN3A (SP3HLM)4,434,321	UX2MF736,596	8S0DX (SM0DSG)349,182	A93JA (KE5JA)5,862,174	A93JA (KE5JA)5,862,174
IR4X (IZ3EYZ)7,003,898	US11 (UX2IO)3,564,288	OM3CUG667,128	S51Z97,776	VE3DZ5,729,820	VE3DZ5,729,820
3V8SS (KF5EYY)6,493,382	Single Op 3.5 MHz High Power Assisted	Single Op 28 MHz QRP	OM3WZ62,266		
Single Op 28 MHz Low Power	LY5R1,045,842	LZ2RS125,481	Single Op 1.8 MHz QRP Assisted		
YT9W538,396	EW8DX696,399	SP4FGG44,840	OL1A (OK1CW)41,262		
EW20362,854	YT6T (YU7CM)624,726	DR2Q (DL8MBS)30,646	Multi-Single High Power		
OH8MJ (OH1RX)297,200	Single Op 1.8 MHz High Power Assisted	Single Op 21 MHz QRP	CN2AA34,661,215		
Single Op 21 MHz Low Power	SQ2HEB188,034	Y03DAC119,780	PS2T16,044,411		
YV4YC2,393,936	EU4E185,740		RU1A13,971,396		
WP3C1,654,296			LX7I13,204,851		
LU11CX1,175,520			P4/N4QS12,854,652		
Single Op 14 MHz Low Power			VC2A12,598,511		
OL2N (OK1FDR)2,180,052					

Europeans dominate the rest of the box. Worldwide propagation was only somewhat better on 15, where PP5KR beat YT0Z and 4Z4AK.

OK1RF at CS2C ran away from the crowd on 20 meters while KD2RD used 20 meters to post the highest U.S. single-band score. HC2AO was king of the 40-meter hill. The big single-band news this year was TC3D setting a new 80-meter world record. LY7M and LY52BC had the top scores on top band.

Some of the Low-Power scores were pretty impressive, too. The top 10 scores on 10 meters were all from Europe, led by YT9W. YV4YC led the way on 15, with OL2N on 20, OM3ZWA on 40, LY5I on 80, and LZ7J on 160.

Photo C. OK1LL found he had to "park" his tribander among the flowers in the garden for protection from lightning.



Single Op 28 MHz High Power	
I03X (IV3JC)	268,002
4X0A (4X1VF)	133,318

Single Op 21 MHz High Power	
HG0R (HA0NAR)	1,721,870
WN1GIV/4 (N4BP)	1,227,135
M7T (G3YYD)	697,635

Single Op 14 MHz High Power	
EW8W	2,929,920
RY3D	2,916,576
K9OM	1,932,920

Single Op 7 MHz High Power	
I21FT	2,712,010
OG25YL (OH2YL)	1,170,666
EV6M	976,256

Single Op 3.5 MHz High Power	
YT6T (YU7CM)	624,726
SP4W	534,296
S58WW	499,698

Single Op 1.8 MHz High Power	
LY52BC (LY4T)	175,890

Single Op All Band Low Power	
ZF2ET (K5GO)	7,910,780
3V8SS (KF5EYY)	6,493,382
NP2P (N2TTA)	5,076,285
VP9I (KL7SB)	4,488,978
UT4LW	4,437,048
OR2F (ON8LDS)	3,774,200

Single Op 28 MHz Low Power	
R3LC	61,200
UA9R	35,280
RD3FV	29,328

Single Op 21 MHz Low Power	
EF8C (EA8DDM)	1,743,748
5W1SA	869,827
UA3ABJ	625,725

Single Op 14 MHz Low Power	
CE3AA (XQ4CW)	1,413,650
OK5ZZ	1,186,635
S54X	1,086,624

Single Op 7 MHz Low Power	
UR5LAM	1,445,300
M0HDF	533,130
ED4T (EA4CWN)	488,808

Single Op 3.5 MHz Low Power	
E77AW	632,055
RV3FW	218,964
G3VDB	187,137

Single Op 1.8 MHz Low Power	
HA1TI	29,945
Y02AQB	25,920

UNITED STATES

Single Op All Band High Power	
NN5J/2 (N5DX)	10,717,320
K1LZ	10,232,010
AA3B	8,365,605
WC1M	7,955,403
NY4A (N4AF)	7,723,898
AC1U (N1UR)	7,499,293

Single Op 21 MHz High Power	
K40AQ	745,241
NG1R (W1QK)	694,410
NA3D/2	689,832

Single Op 14 MHz High Power	
KD2RD	3,859,568
W1WMMU (W5WMMU)	2,906,280
NZMM	2,337,616

Single Op 7 MHz High Power	
N5RZ	2,121,384
K5RX	1,381,590
AA5B	1,189,455

Single Op 3.5 MHz High Power	
W3BGN	516,432
WN2O	360,572
K7GM/1	136,242

Single Op All Band Low Power	
KC3R (LZ4AX)	6,245,130
KM3T/2 (N2NT)	5,223,064
WA1Z	4,934,325
AD4Z	4,066,130
NF6A (K6XX)	3,385,359
N5AW	3,218,688

Single Op 28 MHz Low Power	
KN4Y	5,076

Single Op 21 MHz Low Power	
WB4TDH	350,304
K8AJS	281,880
W2AW (N2GM)	99,424

Single Op 14 MHz Low Power	
K9QVB	965,700
W2TZ	954,408
WK2G/3	749,448

Single Op 7 MHz Low Power	
W2EG	942,389
K9UIY	375,336
WN4AFP	233,430

Single Op 3.5 MHz Low Power	
K5CAO/6	44,764

Single Op 1.8 MHz Low Power	
NO3M	22,624

Single Op All Band High Power Assisted	
N3RS	8,574,928
WU3A/1 (W3UA)	7,856,998
K3WW	6,745,266
NE4AA (K5KG)	6,199,437
W040	4,849,729
WK1Q (K1MK)	4,802,571

Single Op 21 MHz High Power Assisted	
WN1GIV/4 (N4BP)	1,227,135
NN5Z (W5TM)	543,921

Single Op 14 MHz High Power Assisted	
KT3M (N3AD)	3,455,309
K9OM	1,932,920
NC7J (W7CT)	978,342

Single Op 7 MHz High Power Assisted	
K9NW	434,280
W2CPC (KC2GOW)	312,422
KQ7M (K0MP)	300,025

Single Op 3.5 MHz High Power Assisted	
AB3CV	35,061

Single Op All Band Low Power Assisted	
NZ1U (W1UJ)	2,493,792
WQ2N	1,974,187
WJ4X (N4XL)	1,597,950
NC6K	660,548
K3KO/4	643,586
W3KB	606,547

Single Op 28 MHz Low Power Assisted	
NA4W (K4WI)	11,232

Single Op 21 MHz Low Power Assisted	
AE5XQ (HK1A)	56,780
W5BM	29,869

Single Op 14 MHz Low Power Assisted	
WA1FCN/4	707,510
KM4HI	199,044
KC5FP	110,860

Single Op 7 MHz Low Power Assisted	
WA2JQK	159,676
W6AWW	108,768

Single Op 3.5 MHz Low Power Assisted	
K2XR/3	173,940
AB1J	71,749

Single Op All Band QRP	
N7IR	574,420
W6QU (W8QZA)	281,397
N7RCS	138,212
K2YGM	136,784
AA1CA	49,500
WD0T	48,425

Single Op 21 MHz QRP	
WA6FGV	19,344

Single Op 14 MHz QRP	
N3HCN	29,008
N17R/4	24,510
WQ8RP (N8XX)	15,717

Single Op 7 MHz QRP	
N2JNZ	40,994
W8NNC	9,453

Single Op All Band QRP Assisted	
NE5LL (N1CC)	206,910
AB3WS	172,080
K8ZT	104,674
KU1N	95,004

Single Op 14 MHz QRP Assisted	
K3TW/4	100,111

Single Op 7 MHz QRP Assisted	
WA8HSB/4	5,248

Multi-Single High Power	
N0QQ/1	8,945,376
KE3X	8,734,152
N1RR	8,718,414
NS1S/4	8,413,393
WK7S	5,512,640
WF6C	4,499,040

Multi-Single Low Power	
NZ3D	402,284
AB9YC	353,878

Multi-Two	
N4WW	13,830,449
NR5M	11,883,420
K9CT	9,895,760
KC7V	8,260,095
KE1S	7,911,729

Multi-Multi	
NR4M	19,116,432
KU6W	2,418,750

Rookie	
Single Op All Band High Power	
WU4NC (W4FS)	1,336,725
K4AFE	72,600

Single Op All Band Low Power	
AD2KA	187,782
W0QQG/4	179,231
AB3WS	172,080
KCTDLY	116,226
W8NOR/7	91,854

Tribander/Single Element	
Single Op All Band High Power	
N3QE	4,705,617
K3MD	4,164,912
NM1G/4 (N4PN)	4,055,673
K2LNS/3	3,682,440
K4BAI	3,494,844
N1TO/4	2,065,770

Single Op 21 MHz High Power	
WN1GIV/4 (N4BP)	1,227,135

Single Op 14 MHz High Power	
K9OM	1,932,920
W9ILY	872,361
ND2T/6	240,207

Single Op 7 MHz High Power	
K9CC	520,086
KQ7M (K0MP)	300,025
K7WP	286,418

Single Op 3.5 MHz High Power	
WN2O	360,576

Single Op All Band Low Power	
WJ4X (N4XL)	1,597,950
NF2RS (K2ZR)	1,055,184
K16RRN	1,001,832
K1VC	812,322
N2UJ	627,624
KM6Z	590,966

Single Op 28 MHz Low Power	
KE7DX	5,895

Single Op 21 MHz Low Power	
AE0EE	57,564

Single Op 14 MHz Low Power	
W8IQ	326,310
N4HA	242,505
KM4HI	199,044

Single Op 7 MHz Low Power	
WN4AFP	233,430

Single Op 3.5 MHz Low Power	
AB1J	71,749

RU9CI edged out SP6OJE for second place on 40 by just 66 points with scores of over 1.2 million points. K9QVB had a little more breathing room against W2TZ on 20 meters, 11 thousand points out of about a million.

Single-Operator Assisted

Over 1,600 entries reported using QSO alerting assistance. Worldwide, YL3DW shortened his callsign from last year's D44AC to D4C and ran away with a new assisted world record. N3RS handily won the U.S. crown. A lot of action took place in the Assisted Single-Band categories as well. EB8AH on 20 meters was the only non-European

Photo D. Bert, PA1B, with his 40-meter cylinder dipole. Note the clever use of the Energy Booster cans to boost his QRP signal.



Know Code...

CQ author and “cover dude” (Jan. 2014) Jim Talens, N3JT, was featured recently in a TV news story about the value of ham radio and Morse code in the event of a disaster that disables our normal communications infrastructure. It was on WUSA-TV in Washington, DC, and can be viewed at <<http://on.wusa9.com/2cFQSeY>>.

Jim is also a co-founder (and member #1) of the CWops group, which announced its 2016 award winners for contributions to “advancing the art or practice of radio communications by Morse code” in mid-September. This year’s honorees are CW Academy founder Rob Brownstein, K6RB; Carlo Consoli, IKØYGJ, author of *Zen and the Art of Radiotelegraphy* (available in four languages, including English), and CW training course author and instructor Chuck Adams, K7QO. To learn more about CWops, visit <www.cwops.org/>.

– Tnx Pete Chamalian, W1RM

Single-Band leader. LZ4TX (10), S59A (15), OL8M (40), LY5R (80), and SQ2HEB (160) were the other band winners.

P44W (W2GD) led the world in the All Band Low-Power Assisted category. UN9GD was king of 10-meter Low-Power Assisted, while EF8C (15), CN8DK (20), EI6DX (40), RG5A (80), and S51DX (160) were the remaining Low-Power Assisted winners.

Single-Operator QRP

On the QRP side, 302 hardy individuals used 5 watts or less to make their point(s). TM3T (F5VBT, op) repeated as the World QRP champ. Seven unassisted QRP stations had scores above 1 million points. N7IR again led the U.S. contingent, followed by W6QU and N7RCS. The top three QRP scores in the U.S. were from the West Coast. OK2FD was at the top in the Assisted QRP competition, edging RA3AN and OU2M (DK3WE). NE5LL (N1CC) made the most effective use of assistance among U.S. operators. Unlike the High-Power and Low-Power categories, the QRP Assisted winners 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, 49 entries checked

2016 CQWW WPX SSB TROPHY WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD: Steve Bolia, N8BJQ Trophy. Won by: **ED8X** operated by Alexey Mikhailov, RA1A
WORLD Low Power: Caribbean Contesting Consortium Trophy. Won by: **D41CV** operated by Girts Budis, YL2KL
WORLD QRP: Bill Parker, W8QZA Trophy. Won by: **TM3T** operated by Rudolf Ruffer, F5VBT

USA: Dennis Motschenbacher, K7BV Trophy. Won by: **NN5J/2** operated by Kevin Stockton, N5DX
USA Low Power: Ken Boasi, N2ZN Trophy. Won by: **KC3R** operated by Alexander Avramov, LZ4AX
USA QRP: John T. Laney, K4BAI Trophy. Won by: **Gary Hembree, N7IR**
USA Zone 3 High Power: Northern California Contest Club Trophy. Won by: **NK7U** operated by Christopher Hurlbut, KL9A
USA Zone 3 Low Power: Arizona Outlaws Contest Club Trophy. Won by: **NF6A** operated by Bob Wolbert, K6XX
USA Zone 4 High Power: Society of Midwest Contesters Trophy. Won by: **Michael Wetzel, W9RE**
USA Zone 4 Low Power: Society of Midwest Contesters Trophy. Won by: **Marvin Bloomquist, N5AW**
USA Zone 5 High Power: Paul Obert, K8PO Trophy. Awarded to: **Krassimir Petkov, K1LZ***

EUROPE High Power: Ivo Pezer, 5B4ADA/9A3A Trophy. Won by: **CR2X**, operated by Kim Ostman, OH6KZP
EUROPE Low Power: Vitor Santos, PY2NY Trophy. Won by: **IR4X**, operated by Matteo Marzilli, IZ3EYZ
EUROPE QRP: Bruce Olney, WY7N Trophy. Awarded to: **Gernot Trautmann, DF5FR***

AFRICA: Chris Terkla, N1XS Trophy. Awarded to: **3V8SS** operated by Ashraf Chaabane, KF5EYY*
ASIA: Rick Tavan, N6XI Trophy. Won by: **UPØL**, operated by Vladimir Vinichenko, UN9LW
NORTH AMERICA: Louisiana Contest Club Trophy. Won by: **8P5A**, operated by Tom Georgens, W2SC
NORTH AMERICA Low Power: Dick Green, WC1M Trophy. Won by: **ZF2ET**, operated by Stan Stockton, K5GO
OCEANIA High Power: Lloyd Cabral, KH6LC Trophy. Won by: **Kevin Smith, VK6LW**
OCEANIA Low Power: Wes Printz, W3SE/ZL3TE Trophy. Won by: **ZM4T** operated by Holger Hannemann, ZL3IO
SOUTH AMERICA: Cristian Vasquez, CE3PDF Trophy. Won by: **P4ØL** operated by John Fore, W6LD
SOUTHERN CONE (CE, CX, LU) Low Power: LU Contest Group Trophy. Won by: **LV1F** operated by Felipe Stefania, LU4FTA
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: **VY2ZM**, operated by Jeffrey T. Briggs, K1ZM
JAPAN: Wes Printz, W3SE/ZL3TE Trophy. Won by: **Masaki Okano, JH4UYB**
CHINA: LZ9W Contest Team. Won by: **Ma Zhen, BA4MY**

SINGLE OPERATOR, SINGLE BAND

WORLD 28 MHz: Steve Hodgson, ZC4LI Trophy. Won by: **CW4MAX**, operated by Marcelo Eugues, CX2DK
WORLD 28 MHz Low Power: Six Stars Contest Station LS1D Trophy. Won by: **Zoran Milosevic, YT9W**
WORLD 21 MHz: Andrei Stchislenok, NP3D Trophy. Won by: **Lucas Nagel Costa, PP5KR**
WORLD 14 MHz: Gene Walsh, N2AA Trophy. Won by: **CS2C**, operated by Jiri Pesta, OK1RF
WORLD 7 MHz: LZ2RF Memorial (OR2F sponsor) Trophy. Won by: **Alexey Ogorodov, HC2AO**
WORLD 3.5 MHz: Ranko Boca, 4O3A Trophy. Won by: **Yasar Gocet, TC3D**
WORLD 1.8 MHz: Dusko Dumanovic, ZL3WW Trophy. Won by: **Algirdas Uzdonas, LY7M**

USA 21 MHz: Charlie Wooten, NF4A Trophy. Won by: **Fritz Reuning, K4OAG**
USA 7 MHz: Darin Divinia, WG5J Trophy. Won by: **Ralph Bowen, N5RZ**
USA 3.5 MHz: Wes Printz, W3SE/ZL3TE Trophy. Won by: **Steven Sussman, W3BGN**

SINGLE OPERATOR ASSISTED

WORLD: D4C Station Trophy. Won by: **D4C**, operated by Oleg Ostrzigo, YL3DW
QRP: Explorers Radio Club Trophy. Won by: **Karel Karmasin, OK2FD**
USA: Ron Sigismonti, N3RS Trophy. Won by: **NZ1U** operated by Jay Corriveau, W1UJ
EUROPE: Martin Huml, OL5Y Trophy. Won by: **Nick Kornev, RA3AN**

OVERLAY CATEGORIES

USA Tribander/Single-Element: Paul Newberry, N4PN Trophy. Won by: **Tim Shoppa, N3QE**
Europe Tribander/Single-Element: Matija Brodnik, S53MM Trophy. Won by: **Igor Vachevski, R4RR**
WORLD Rookie: Val Edwards W8KIC Memorial (K3LR sponsor) Trophy. Won by: **UD3D** operated by Irina Evstegneeva, R2DLM
NORTH AMERICA Rookie: Chris Kantarjev, K6DBG Trophy. Won by: **WU4NC** operated by Tucker McGuire, W4FS

MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Steve Miller, NØSM Trophy. Won by: **CN2AA** operated by UA3ASZ, RA3CO, RL3FT, IK2QEI, RM9I, RN5M, UA4Z, and RX3APM
WORLD-Low Power: Hoosier DX and Contest Club Trophy. Won by: **ZF1A** operated by AC6T and N5DO
USA: Phil Allardice, KT3Y Trophy. Won by: **NØQQ/1** operated by K1DG, DK2OY, and DL1QQ
ASIA: W2MIG Memorial (NX7TT Sponsor) Trophy. Awarded to: **JT5DX** operated by JT1CO, RT0O, JT1AA, and UA0OE*
EUROPE: YO3CTK Memorial by Andy Ruse YO3JR/YR1ATrophy. Won by: **RU1A** operated by RW1A, RD1A, RV1AW, RA1AP, R2RA, and RU1AF
NORTH AMERICA: Kansas City DX Club. Won by: **VC2A** operated by VA2EW, VA2WA, and VA2TTA
CHINA: Andrey Sachkov, LZ2HM Trophy. Won by: **BY5CD** operated by BD5XX, BA5CW, DF9LJ, and BD5CHU

MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: UA1DZ Memorial (W3UA Sponsor) Trophy. Won by: **P33W** operated by LZ2HM, R4FO, RA2FA, UA4FER, RW4WR, and RA3AAU
USA: Florida Contest Group Trophy. Won by: **N4WW**, operated by N4WW, N7RH, KØLUZ, N4KM, and WF3C
EUROPE: Tom Georgens, W2SCTrophy. Awarded to: **HG7T** operated by HA7TM, HA8LLK, HA9PP, HAØDU, HG5DX, and UZ5DX*

MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Steve Merchant, K6AW Trophy. Won by: **9A1A** operated by 9A5W, 9A9A, 9A6A, 9A7R, 9A2EU, 9A7DR, and 9A8A
USA: Jim Reisert, AD1C Trophy. Won by: **N4WW** operated by N4WW, N7RH, KØLUZ, and N4KM
EUROPE: Jeff Demers, N1SNB Trophy. Awarded to: **OL4A** operated by OK1DO, OK1DSZ, OKFFU, OK1HGM, OK1JKT, OK1NY, OK1RI, and OM6NM*

CONTEST EXPEDITION

WORLD: Phil Goetz, N6ZZ Memorial by Paul Goetz Trophy. Won by: **XRØYI** operated by Jeff Martin, K5WE

COMBINED AWARDS

WORLD Single Operator Combined Score: (SSB and CW) Yuri Blannarovich, 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: **Krassimir Petkov, K1LZ**
WORLD Single Operator Combined Prefixes: Norm Koch, WN5N Memorial by Gail M. Sheehan, K2RED Trophy. Won by: **8P5A** operated by Tom Georgens, W2SC (2,584 total)
CQ WPX Contest Triathlon Award: (Single Operator Combined Score on RTTY, SSB, and CW). Rudy Bakalov, N2WQ Trophy. Won by: **Luca Aliprandi, IK2NCJ (22,705,587 points, 8,076 QSOs)**
WORLD Club Score: CQ Magazine Trophy. Won by: **Bavarian Contest Club**

*Denotes awarded to runner-up in category

this overlay category. Only 15 of the Rookies entered an assisted category with most choosing to use low power. R2DLM operated from UD3D (see *Photo E*) to post the world high score of 2.4 million. W4FS used WU4NC to take the North America plaque. ZL4YL had the top Rookie Single Band Low Power score (*Photo F*).

The Tribander/Single-Element overlay category was established to recognize that many stations face space constraints for antennas. There were 736 entrants in this overlay. VE9CB had the top High-Power All Band score (*Photo G*). N3QE was the leader among the U.S. Tribander/Single-Element competitors. ZF2ET (K5GO, op) led the Low Power Tribander-wires crowd, with a score better than the High



Photo E. Irina, R2DLM, piloted UD3D to the world high Rookie score.




Photo F. Rookie 15-year-old Xenia, ZL4YL, got her license last August. She shared the family rig with ZM4T. Two multipliers, one radio!

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Photo G. Dave, VE9CB, used this fine station hooked up to his tribander to win the Tribander/Single Element overlay category.



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Little Pistols Can Still Have Fun

Even a very limited (little pistol) station can have lots of fun in WPX! This time I only had the opportunity to do a limited effort. I decided to play around in the Single Operator Low Power Assisted category from my city apartment. I didn't expect much from 15 watts into a simple mobile whip with an auto-coupler on the rail of my balcony, but I had fun and with a more serious effort the results should be much better.

In about 12 not so efficient hours I was able to log 158 QSOs. I went to the radio in bursts for as long as my 18-month-old daughter would allow me. Of the 158 Qs, 10 were true DX and the longest distance bridged was 8,000 kilometers. Almost every contact was a new prefix, which is natural in WPX.

Having a "good" prefix is key and helps running, especially in a CW contest where even the weakest signals generate RBN spots. I hadn't been using my rather unique "7S" prefix for a while, but it came to good use now and this helped in my micro run sessions. Usually a new run would generate three to four Qs after the first RBN spot, then I went off to S&P again.

My focus was on 20 and 40 meters, using two different mobile whips on the balcony, manually replacing them when doing band switches. The 20-meter whip tuned with the LDG RT-100 coupler helped hook some multipliers on 10 and 15 meters. My apartment building is low and surrounded by other buildings in almost all directions. There is a small opening to the southwest that helps, but most DX directions are obstructed. This weekend I was experiencing quite low man-made noise on 20 meters (S3) but higher on 40 meters (S7), which might explain the lower QSO count on 40. In the photo (*Photo H*) you will also see a Cross Country Wireless active loop, an active RX antenna sometimes used to null out nearby city QRM. <<http://sunsdr.eu/fun-sdr-city-apartment/>>

I was using the SunSDR2 PRO SDR transceiver barefoot with about 15- to 20-watts output. The panadapter provided a great overview. CW skimmer was hooked up to skim the two bands of the independent receivers. N1MM was hooked to CAT and to the telnet server (for spots) to ExpertSDR2, the SunSDR control software. In addition, I played with overlaying RBN spots on the waterfall, which is a really nice feature. Everything was running on a HP Laptop creating a small but efficient contest station in the home office. To compare the experience I was also logging a few (114!) Qs using SE0X controlled via remote, and submitting a separate log entry.

– Björn, SMØMDG, operator of 7S0X



Photo H. The antenna farm at 7S0X, complete with separate transmitting and receiving antennas.

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CQ

Power fellows. WJ4X (N4XL) paced the U.S. Low Power group.

Multi-Operator

CN2AA fell just shy of P33W's record in the Multi-Operator Single-Transmitter category, but won with a score twice that of the second-place team, PS2T. The top four U.S. M/S stations all scored in the 8 million-point range, with N0QQ/1 moving from third to first place after log checking. ZF1A held a big margin over HI3TT to win the plaque in the Multi-Single Low Power category.

P33W moved up to the Multi-Two category this year and set a new world record in the process. Again, the interesting races were for the runner-up positions. N4WW won convincingly over NR5M.

Multi-multi operation seems to be on the decline, as few bands are open simultaneously; only 11 teams took up the challenge. 9A1A repeated as champion, with OL4A the runner-up. NR4M was the top U.S. station, fourth place worldwide.

Club Competition

The Bavarian Contest Club retook the club title from the Italian Contest Club.

The Potomac Valley Radio Club was the top U.S. club, while the Yankee Clipper Contest Club finished second.

Records

Every year finds some stations rising to new heights. This year, new records were set by P33W (World M/2), D41CV (World All Band Low Power), TC3D (World 3.5 MHz), D4C (World Assisted), ED8X (Africa All Band), CR2X (Europe All Band), 8P5A (North America All Band), HK1R (South America 1.8 MHz), and CN2AA (Africa M/S). Records for all of the various categories and countries can be found at <www.cqwp.com/records.htm>.

Miscellaneous Statistics

Low power entries were submitted by 2,182 single-operator stations, a slight increase over last year, while 1,336 used high power and 302 went QRP, both categories down from a year ago. Overall, unassisted operation was still favored by 60% of the operators, 2,197 to 1,623. High-power stations narrowly favored assisted (743 vs. 593) while low-power operators continue to overwhelmingly endorse the 'boy and his radio' style of operation (1,393 unassisted vs. 789 assisted) and the QRP

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ops voted 211 to 91 for the unassisted style of operation. Even rookies were more than twice as likely to be operating without assistance than with assistance. 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 or plaques. Logs

received after the official deadline are shown in italics in the line scores and are not eligible for any awards.

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>.

There are a number of volunteers who make running and reporting the contest possible. The software support from K1EA and K5TR is more important than ever with the rapid log adjudication cycle. K3WW, K5ZD, and W4AU helped provide the

CLUB SCORES

UNITED STATES

Club	# Entrants	Score
POTOMAC VALLEY RADIO CLUB	115	185,245,049
YANKEE CLIPPER CONTEST CLUB	103	160,210,567
NORTHERN CALIFORNIA CONTEST CLUB	78	140,316,750
FRANKFORD RADIO CLUB	60	110,414,537
FLORIDA CONTEST GROUP	66	64,978,107
SOCIETY OF MIDWEST CONTESTERS	84	49,363,072
DFW CONTEST GROUP	22	34,255,210
ARIZONA OUTLAWS CONTEST CLUB	44	30,993,789
SOUTHERN CALIFORNIA CONTEST CLUB	41	29,669,222
CENTRAL TEXAS DX AND CONTEST CLUB	14	24,754,091
WILLAMETTE VALLEY DX CLUB	34	23,091,099
GEORGIA CONTEST GROUP	13	20,248,593
NORTH COAST CONTESTERS	13	20,180,674
ALABAMA CONTEST GROUP	15	19,237,600
SOUTH EAST CONTEST CLUB	19	19,134,117
TENNESSEE CONTEST GROUP	23	17,290,532
MAD RIVER RADIO CLUB	23	16,086,485
BIG SKY CONTESTERS	12	12,020,050
CTRI CONTEST GROUP	6	8,337,006
WESTERN WASHINGTON DX CLUB	17	7,631,978
OKLAHOMA DX ASSOCIATION	4	7,104,259
HUDSON VALLEY CONTESTERS AND DXERS	16	6,787,067
MOTHER LODE DX/CONTEST CLUB	12	6,393,744
NORTH TEXAS CONTEST CLUB	7	5,607,324
LOUISIANA CONTEST CLUB	5	5,337,848
KANSAS CITY CONTEST CLUB	11	5,073,924
MINNESOTA WIRELESS ASSN	26	4,689,345
GRAND MESA CONTESTERS OF COLORADO	11	4,094,184
NORTHEAST WISCONSIN DX ASSN	6	3,818,269
PORTAGE COUNTY AMATEUR RADIO SERVICE	5	3,309,412
N.E. MARYLAND AMATEUR RADIO CONTEST SOCIETY	10	2,436,165
NORTH CAROLINA DX AND CONTEST CLUB	4	2,434,620
NIAGARA FRONTIER RADIOSPORT	9	2,088,301
MISSISSIPPI VALLEY DX/CONTEST CLUB	8	1,782,291
SWAMP FOX CONTEST GROUP	12	1,572,374
HILLTOP TRANSMITTING ASSN	4	1,102,704
METRO DX CLUB	7	1,032,348
SPOKANE DX ASSOCIATION	6	980,350
599 DX ASSOCIATION	4	786,474
KENTUCKY CONTEST GROUP	5	784,428
SUNDAY CREEK AMATEUR RADIO FEDERATION	6	711,485
MERIDEN ARC	4	691,279
SKYVIEW RADIO SOCIETY	4	522,512
ROCHESTER (NY) DX ASSN	9	459,858
BERGEN ARA	5	304,059
DEEP DIXIE CONTEST CLUB	4	272,913
UTAH DX ASSOCIATION	5	208,006
STERLING PARK AMATEUR RADIO CLUB	5	141,141
WEST PARK RADIOPS	4	121,849
PUEBLO WEST AMATEUR RADIO CLUB	4	118,020
BELLBROOK AMATEUR RADIO CLUB	4	98,200

DX

Club	# Entrants	Score
BAVARIAN CONTEST CLUB	226	234,901,751
ITALIAN CONTEST CLUB	146	159,713,238
ARAUCARIA DX GROUP	60	150,877,130
UKRAINIAN CONTEST CLUB	121	136,787,289
RHEIN RUHR DX ASSOCIATION	121	105,485,271
CONTEST CLUB FINLAND	38	99,227,511
EA CONTEST CLUB	63	98,957,416
HA-DX-CLUB	22	94,813,203
KAUNAS UNIVERSITY OF TECH. RADIO CLUB	48	94,478,942
CROATIAN CONTEST CLUB	46	93,895,274
SLOVENIA CONTEST CLUB	33	89,884,578
LATVIAN CONTEST CLUB	28	84,920,612
CONTEST CLUB ONTARIO	38	75,107,939
RUSSIAN CONTEST CLUB	43	69,392,076
SP DX CLUB	41	53,361,337
LU CONTEST GROUP	41	51,960,012
URAL CONTEST GROUP	24	48,189,520
BELARUS CONTEST CLUB	28	42,042,313
ORCA DX AND CONTEST CLUB	16	41,104,434
MARITIME CONTEST CLUB	13	35,606,299
CONTEST GROUP DU QUEBEC	11	34,021,065
RADIO CLUB VENEZOLANO CARACAS	13	31,407,462
RUSSIAN CW CLUB	53	31,395,105
BOSNIA AND HERZGOVINA CONTEST CLUB	11	30,863,851
CONTEST CLUB SERBIA	51	29,782,101
CHILTERN DX CLUB	14	29,263,115
RIO DX GROUP	56	26,512,811
VK CONTEST CLUB	18	25,418,408

VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	12	23,194,889
BELOKRANJEC CONTEST CLUB	12	22,800,624
SOUTH URAL CONTEST CLUB	15	21,102,285
UA2 CONTEST CLUB	10	20,825,679
SKY CONTEST CLUB	6	19,912,816
NOVOKUZNETSK RADIO CLUB	10	19,799,286
WEST SERBIA CONTEST CLUB	5	18,606,385
WORLD WIDE YOUNG CONTESTERS	17	18,066,312
SAUDI CONTEST GROUP	7	16,100,016
ANTWERP CONTEST CLUB	5	15,923,052
CE CONTEST GROUP	7	15,381,921
SIAM DX GROUP	9	12,854,184
YB LAND DX CLUB	54	12,847,927
ARCK	14	12,310,753
CLIPPERTON DX CLUB	12	10,806,349
DOZEN DASHES CONTEST CLUB	4	10,764,563
LA CONTEST CLUB	11	10,390,241
THRACIAN ROSE CLUB	35	10,389,265
DONBASS CONTEST CLUB	17	9,395,917
CATALONIA CONTEST CLUB	6	9,222,695
ALRS ST PETERSBURG	15	8,502,154
BAHRAIN CONTEST TEAM	4	7,840,641
KRIVBASS	5	7,664,504
VRHNKA CONTESTERS	8	7,595,242
CDR GROUP	31	7,577,596
LITHUANIAN CONTEST GROUP	5	7,570,195
RIIHIMAINEN KOLMOSET	5	7,474,822
TARTU CONTEST TEAM	6	6,911,574
RADIOSPORT MANITOBA	7	6,516,527
VU CONTEST GROUP	17	5,954,348
CZECH CONTEST CLUB	4	5,894,253
YO DX CLUB	15	5,629,629
DANISH DX GROUP	13	4,588,459
Z37M CONTEST TEAM	7	4,374,520
BK CONTEST TEAM	4	4,262,916
CRIMEAN CONTEST CLUB	10	4,071,503
THAILAND DX ASSOCIATION	8	3,931,487
CENTRAL SIBERIA DX CLUB	6	3,713,812
BLACK SEA CONTEST CLUB	21	3,377,121
CS PETROLUL PLOIESTI	8	3,061,583
SK4DM VASTERBERGSLAGENS SANDAR AMATORER	4	2,931,634
GUARA DX GROUP	18	2,865,866
VITEBSK CONTEST CLUB	5	2,664,465
RU-QRP CLUB	13	2,358,139
MOSCOW RADIO CLUB	4	2,325,283
GIPANIS CONTEST GROUP	9	2,104,671
SARATOVSKAYA OBLAST RADIO CLUB	6	2,090,698
R4F-DX-G	5	2,002,847
PEMBROKESHIRE CONTEST GROUP	4	1,937,608
OMSK RADIO CLUB	10	1,880,777
UR-QRP-CLUB	6	1,727,882
FALKOPINGS RADIOCLUB	4	1,570,530
IRKUTSK RADIO CLUB	4	1,521,060
ARKTIKA	5	1,478,986
GMDX GROUP	5	1,400,207
GRUPO DXXE	4	1,233,954
VOLYN CONTEST GROUP	5	1,233,915
VLADIMIR CONTEST GROUP	6	1,193,527
FUCHU AMATEUR RADIO CLUB	9	1,176,421
SASKATCHEWAN CONTEST CLUB	4	1,110,958
COCKENZIE AND PORT SETON ARC	6	996,016
YYP CLUB	6	942,533
CALGARY AMATEUR RADIO ASSOCIATION	4	864,654
OBNSK QRU CLUB	4	795,638
NORDX CLUB	6	669,130
CHILEAN PACIFIC DX GROUP	4	613,276
LA-DX-GROUP	4	610,355
PETERBOROUGH AMATEUR RADIO CLUB	6	578,142
GRIMSBY AMATEUR RADIO SOCIETY	4	535,977
BRACKNELL AMATEUR RADIO CLUB	4	500,670
RADIO CLUB KVARNER RIJEKA	8	485,667
PARA DX GROUP	5	459,120
SHARP HAM CLUB	7	457,841
UNIVERSITY OF TOKYO CONTEST CLUB	4	434,003
CSM CRAIOVA	5	344,871
599 CONTEST CLUB	5	329,037
WYTHALL RADIO CLUB	4	324,068
KEYMEN'S CLUB OF JAPAN	5	308,766
CS CEHLAU PLATRA NEAMT	5	298,835
THE AKITA DX ASSOCIATION	4	295,814
RTTY CONTESTERS OF JAPAN	6	188,663
CS SILVER FOX DEVA	4	168,907
GIRE SUN TELSIZ VE RADYO AMATORLERI DERNEGI	7	144,259
SAYAN DX CLUB	5	143,890
RADIOCLUBUL QSO BANAT TIMISOARA	5	95,840
SOUTHERN THAILAND DX CLUB	4	69,973
TRAC CANAKKALE	5	575

skilled analysis of the logs that computers alone cannot provide. F6BEE helped check (and recheck) the club competition. Doug, K1DG, handles the plaques in a very timely manner. Paper logs were manually entered by KD9MS, K9ZM, KC9EOQ, N9LF, N9CK, WT2P, AB9YC, and N4TZ. K5ZD runs and improves the already outstanding CQ WPX website and helps with almost every part of running the contest.

The 2017 CQ WPX CW Contest will be held **May 27-28**. The log deadline is five days after the conclusion on the contest, **June 2 at 2359Z**. Updated rules will be in the January issue of *CQ* and will be posted on the <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 Single Operator

1.8	IH9/OL5Y('98)	341,068	182
3.5	TC3D('16)	2,112,711	457
7.0	3V8CB('10)	10,758,020	805
14	UP2L('09)	7,928,886	1043
21	HK1R('15)	8,721,150	1097
28	ZX5J('02)	6,787,440	857
AB	CR3A('15)	21,403,527	1241
LP	D41CV('16)	13,881,372	1059
QRP	P40W('97)	4,018,208	632
Assisted	D41CV('16)	13,881,372	1059

U.S.A. RECORD HOLDERS Single Operator

1.8	WV8JR('07)	56,760	132
3.5	W3BGN('08)	641,092	332
7.0	KG1D('04)	3,681,828	657
14	N2NC('06)	5,418,630	915
21	NU5A('99)	4,411,299	789
28	WW4M('01)	2,547,046	674
AB	KC3R('15)	12,574,257	1121
LP	N5AW('15)	6,317,732	989
QRP	N2WN/4('12)	1,686,608	592
Assisted	NY3A('12)	9,923,563	1079

Multi-Operator Single Transmitter

P33W('15)	35,165,691	1503
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Multi-Operator Single Transmitter

KM3T/1('12)	15,311,340	1254
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Multi-Operator Two Transmitter

P33W('16)	42,511,820	1495
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Multi-Operator Two Transmitter

NN3L('12)	21,964,974	1362
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Multi-Operator Multi-Transmitter

HC8N('99)	54,697,072	1264
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Multi-Operator Multi-Transmitter

NR4M('12)	26,785,984	1426
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CLUB RECORD

Bavarian Contest Club ('12)	441,610,686
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CONTINENTAL RECORD HOLDERS

AFRICA

1.8	IH9/OL5Y('98)	341,068	182
3.5	7X0RY('08)	1,701,260	407
7.0	3V8CB('10)	10,758,020	805
14	6W1SJ('09)	6,755,364	924
21	CT3KN('15)	7,064,082	1017
28	ZS4TX('01)	4,602,028	722
AB	ED8X('16)	19,852,770	1162

SOUTH AMERICA

1.8	HK1R('16)	25,440	60
3.5	YX3A('89)	1,004,060	305
7.0	PJ4A('13)	8,744,862	826
14	HK1X('11)	7,254,266	1006
21	HK1R('02)	8,721,150	1097
28	ZX5J('02)	6,787,440	857
AB	PJ4A('11)	16,272,730	1018

ASIA

1.8	4X4NJ('96)	259,420	170
3.5	TC3D('16)	2,112,711	457
7.0	ZC4LI('10)	4,770,336	632
14	UP2L('09)	7,928,886	1043
21	4L8A('15)	6,681,246	1014
28	HZ1AB('02)	3,669,994	659
AB	4L0A('09)	12,560,363	967

MULTI-OPERATOR SINGLE TRANSMITTER

AF	CN2AA('16)	34,551,215	1411
AS	P33W('15)	35,165,691	1503
EU	ES9C('15)	18,609,024	1472
NA	ZF1A('15)	19,649,390	1294
OC	AH2R('01)	11,541,420	957
SA	P49V('01)	19,760,744	1034

MULTI-OPERATOR TWO TRANSMITTER

AF	EF8M('07)	33,324,192	1256
AS	P33W('16)	42,511,820	1495
EU	OL4A('15)	25,417,163	1579
NA	NN3L('12)	21,964,974	1362
OC	KH6LC('12)	17,095,460	1198
SA	PW7T('12)	34,156,451	1457

MULTI-OPERATOR MULTI-TRANSMITTER

AF	CQ3L('10)	28,736,154	1173
AS	A61AJ('02)	42,766,232	1244
EU	DR1A('12)	34,790,058	1598
NA	6Y2A('02)	38,821,328	1274
OC	ZL6QH('04)	16,143,840	1010
SA	HC8N('99)	54,697,072	1264

QRP

AF	5Y4FO('02)	649,057	311
AS	ZC4BS('02)	2,515,388	521
EU	LY5A('01)	2,331,414	646
NA	T15X('01)	2,568,470	615
OC	FO8JP('86)	572,131	259
SA	P40W('97)	4,018,208	632

1.8	SN7Q('08)	339,542	307
3.5	TM5Y('08)	1,983,366	567
7.0	CT1JLZ('09)	6,075,936	816
14	CR2X('15)	6,869,928	1164
21	CR1X('12)	7,293,280	1154
28	9H0A('01)	3,965,315	841
AB	CR2X('16)	13,738,624	1186

EUROPE

1.8	VA1A('99)	103,680	120
3.5	FM5BH('97)	833,490	315
7.0	V26BA('97)	6,227,550	659
14	N2NC('06)	5,418,630	915
21	ZF1A('99)	5,330,129	799
28	FM5GU('01)	2,849,769	621
AB	8P5A('16)	15,690,486	1162

NORTH AMERICA

1.8	VA1A('99)	103,680	120
3.5	FM5BH('97)	833,490	315
7.0	V26BA('97)	6,227,550	659
14	N2NC('06)	5,418,630	915
21	ZF1A('99)	5,330,129	799
28	FM5GU('01)	2,849,769	621
AB	8P5A('16)	15,690,486	1162

OCEANIA

1.8	KH6ND('07)	22,100	50
3.5	KH6ND('09)	596,673	231
7.0	ZM3A('09)	6,437,695	737
14	KH6ND('03)	4,126,690	730
21	KH6ND('99)	6,107,256	813
28	KH6ND('00)	1,523,008	424
AB	KH7XX('15)	12,449,866	1111



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