

Results of the 2018 CQWW WPX CW Contest

BY TERRY ZIVNEY*, N4TZ

The results are in from the 40th running of the CQ World Wide WPX CW contest. The first contest back in 1979 featured a lot of newer prefixes such as N4 and AE6, courtesy of the FCC's incentive licensing program. Most of the prefixes encountered then were of the permanent variety, not the one-time or short-time-use prefixes that are so eagerly awaited today. Many of these short-time-use prefixes commemorate something, such as 4Z7ØIARC, OH3Ø77F, DQ8ØØHRO, ZL8ØFOC, SN1ØØU, YR1ØØR, HL5ØIARU, HG1ØCC, VR2ØEH, I13ØCJ, CR14ØAA, PI4ØFL, SP5ØZCF, OG6ØF, 4X7ØA, EO7ØUWC, OZ8ØFOC, DP8ØFOC, DL8ØFOC, SX8ØFOC, PF8ØFOC, SP8ØFOC, DM8ØFOC, LM9ØNRRL, and OL9ØITALIA. See *Table 1* for their significance. I apologize to those whose once-in-a-lifetime prefixes I missed.

Single-Operator All Band

OM3RM at CR3DX made a good run at ending 8P5A's winning streak, but Tom, W2SC, held on yet again. Phil, KT3Y,

*email: <n4tz@cqwpx.com>

Photo A. KP2M used a single 38-foot crankup tower to make over 3,700 Qs in the Single Operator High Power category in the 2018 CQWW WPX CW contest. This was KP2M's first operation since Hurricane Maria ravaged the Caribbean last year. The setup consisted of an XM240 Skyhawk and 80-meter inverted 'V' with one Elecraft K3 and an Expert Linear amp running at 1.3 kilowatts.



Commemorative Callsigns

4X7ØA: 70th anniversary of the founding of the state of Israel and Israel Amateur Radio Club

4Z7ØIARC: 70th anniversary of the founding of the state of Israel and Israel Amateur Radio Club

OH3Ø77F: USA county hunters (3077 counties)

DQ8ØØHRO: 800-year jubilee of Rostock

SN1ØØU: 100th anniversary of Poland regaining independence

YR1ØØR: Centennial of Great Union - 2018

HL5ØIARU: IARU Region III 50th anniversary

HG1ØCC: 200th anniversary of Carabinieri Force foundation

VR2ØEH: 20th anniversary of returning Hong Kong to China

I13ØCJ: 30th anniversary of founding ARI Cinisello Balsamo club

CR14ØAA: 40th anniversary of CU3AA licensing

PI4ØFL: 40th anniversary of PI4FL

SP5ØZCF: 50th anniversary of the SP9ZCF Scouting Radio Club

OG6ØF: 60th anniversary of Pori, Finland radio club

EO7ØUWC: 70th anniversary of the Kiev Palace of Children and Youth

ZL8ØFOC, OZ8ØFOC, DP8ØFOC, DL8ØFOC, SX8ØFOC, PF8ØFOC, SP8ØFOC, DM8ØFOC: 80th anniversary of The First Class CW Operators' Club

LM9ØNRRL: 90th anniversary of Norwegian Radio Relay League

OL9ØITALIA: 90th anniversary of Airship Italia crash near North Pole

Table 1

2018 CQWW WPX CW TOP SCORES

WORLD

Single Op All Band High Power
8P5A (W2SC).....14,417,136
CR3DX (OM3RM).....14,321,840
KP2M (KT3Y).....13,026,468
YV2TT (K6LA).....12,447,219
KM7W/1 (KL9A).....12,313,748
Single Op 28 MHz High Power
YV4D (YV1DIG).....315,615
9M8YY (JR3WXA).....59,829
YV4ABR.....25,491
Single Op 21 MHz High Power
9A4W.....952,410
UN9GD.....634,068
DL2SAX.....440,553
Single Op 14 MHz High Power
CN2DD (RA3CO).....9,738,872
SN3A (N2NL).....6,186,952
OH8X (OH6UM).....6,135,948
Single Op 7 MHz High Power
E77W.....5,442,080
UA9LAO (SP3HLM).....5,200,784
EF2A (EA2OT).....5,063,721
Single Op 3.5 MHz High Power
OK7W (OK1CID).....1,127,945
YT3J.....897,684
K1K1.....782,892
Single Op 1.8 MHz High Power
9A2AJ.....198,072
LY2NK.....153,640
YO5AJR.....112,290
Single Op All Band Low Power
IR4M (IK3QAR).....6,560,775
3V8SS (KF5EYY).....5,375,150
4Z70IARC (4Z4AK).....3,875,128
NN3U/4 (N9NB).....3,822,944
KS9K (N4TZ).....2,717,910
Single Op 28 MHz Low Power
E79EA.....66,980
LZ2JA.....22,755
KN4Y.....14,872
Single Op 21 MHz Low Power
PY2XC.....409,661
VR20EH.....376,302
YT9W.....345,390
Single Op 14 MHz Low Power
IF9A (IT9PPG).....1,968,122
W2AW (N2GM).....1,042,074
WB4TDH.....1,017,480
Single Op 7 MHz Low Power
YU0A (YU1RA).....2,111,112
UA7KA.....1,566,195
OL5J.....1,538,894
Single Op 3.5 MHz Low Power
EU3A.....497,531
OM3ZWA.....489,585
DQ800HRO (DL6KWN).....462,870
Single Op 1.8 MHz Low Power
HG0R (HA0NAR).....200,448
EU3AC.....79,922
E79Z.....44,671
Single Op All Band High Power Assisted
EF8R (EA8RM).....12,792,000
VA2EW.....10,627,127
VC2A (VA2WA).....10,396,232
SN7Q (SP7GIQ).....10,345,563
UP4L (UN7LZ).....10,280,975
Single Op 28 MHz High Power Assisted
IT9VDQ.....254,800
DH8BQA.....103,870
LZ1NG.....98,514
Single Op 21 MHz High Power Assisted
IB9T (IT9LBB).....2,039,986
CW4MAX (CX2DK).....1,817,322
I28EPX.....734,320

Single Op 14 MHz High Power Assisted
RM9I.....6,266,320
HG3R.....5,483,982
OG7A (OH6MW).....5,447,328
Single Op 7 MHz High Power Assisted
OM2VL.....5,026,278
SJ2W (SM2LIY).....4,864,325
VK3FY (ZL3WW).....4,271,904
Single Op 3.5 MHz High Power Assisted
HG8R (HA8JV).....1,426,483
9A8M (9A3XU).....1,082,530
S57Z.....1,071,742
Single Op 1.8 MHz High Power Assisted
YR2V (YO2DFA).....203,255
RK3ER.....132,341
OH3RB.....87,423
Single Op All Band Low Power Assisted
P44W (W2GD).....7,062,144
UZ3A (UX1AA).....5,106,762
S53A.....4,418,568
UT4LW.....4,228,640
SN7O (SP7IVO).....4,027,392
Single Op 28 MHz Low Power Assisted
I0UZF.....33,892
PP5BI.....28,536
OG55W (OH2OT).....25,870
Single Op 21 MHz Low Power Assisted
ZY5T (PP5KR).....1,689,912
IT9RBW.....209,374
Y07FB.....148,149
Single Op 14 MHz Low Power Assisted
CN8KD.....2,932,800
RA9AP.....1,994,366
UT1AA.....1,265,667
Single Op 7 MHz Low Power Assisted
FY5KE (F6FVY).....3,205,420
OL9R (OK6RA).....2,634,810
RX9AF.....2,569,572
Single Op 3.5 MHz Low Power Assisted
3Z0X (SP5MXZ).....572,832
EU6RO.....400,655
YT1WA.....369,591
Single Op 1.8 MHz Low Power Assisted
LY4ZZ (LY2BMX).....172,235
MW5R (MW0EDX).....166,941
OK5ZZ.....99,792
Single Op All Band QRP
DF5FR.....944,520
CR5O (CT7AJL).....933,283
UX2MF.....901,129
MM3AWD.....812,946
N7IR.....554,652
Single Op 28 MHz QRP
US5VX.....6,175
OK1LV.....3,234
Single Op 21 MHz QRP
LZ2RS.....66,924
Y03DAC.....30,420
RM3G.....12,789
Single Op 14 MHz QRP
9A2EY.....282,624
RW9AV.....266,169
RW3AI.....195,200
Single Op 7 MHz QRP
4L7AA.....840,478
LY5G.....676,368
9A36W (9A6W).....399,160

Single Op 3.5 MHz QRP
DK7HA.....140,499
OK1FKD.....46,812
OK5WF.....32,526
Single Op 1.8 MHz QRP
S57M.....41,600
LY4T.....30,820
HA5NB.....20,210
Single Op All Band QRP Assisted
OK2FD.....1,983,870
UR6EA.....1,381,127
I28JFL.....984,555
YU1WC.....804,112
YU1LM.....681,540
Single Op 28 MHz QRP Assisted
LZ11C (LZ2DB).....9,266
OT6M (ON9CC).....3,375
Single Op 21 MHz QRP Assisted
HG3C (HA3HX).....33,345
HG10CC (HA3JB).....22,072
Single Op 14 MHz QRP Assisted
LZ24M (LZ3DX).....815,776
S51Z.....371,448
F5PHW/QRP.....284,557
Single Op 7 MHz QRP Assisted
LZ2FV.....186,181
ON9CC.....20,925
NE6M.....17,712
Single Op 3.5 MHz QRP Assisted
OL4W (OK1IF).....296,098
E72MD.....91,932
OM3WZ.....50,460
Single Op 1.8 MHz QRP Assisted
OL1A.....67,969
EE3X (EA3KX).....20,056
Multi-Single High Power
K1LZ.....15,118,240
LZ5R.....14,650,724
U1F1.....13,931,544
K3LR.....13,193,685
9A70A.....12,930,184
Multi-Single Low Power
VP5M.....8,141,742
YU5R.....7,053,180
ES6Q.....4,342,614
Z37M.....3,955,476
VE9ML.....3,892,525
Multi-Two
P33W.....38,227,902
CN3A.....35,274,220
CR3W.....28,453,094
4L0A.....25,253,540
OM7M.....21,342,324
Multi-Multi
9A1A.....26,727,012
LZ9W.....23,835,683
YT5A.....23,644,824
PX2MTV.....18,324,876
NR4M.....14,262,046
Rookie
Single Op All Band High Power
DK5KK.....2,848,356
K8PJK.....530,250
R4WBF.....321,948
RU8T.....46,529
K4AFE.....27,323
Single Op 14 MHz High Power
IQ1LA (IU1JCZ).....1,069,013
W4AQL (W8YZH).....51,465
Single Op 3.5 MHz High Power
YU3EEA.....328,536
Single Op All Band Low Power
SP4AWE.....617,008
R6AJ.....289,900
KM4SII.....269,516
R2PU.....108,834
N1ADM/4.....104,159
Single Op 21 MHz Low Power
PU4ENY.....28,616

Single Op 14 MHz Low Power
R1ZM.....265,240
S58KA.....211,497
R7RAG.....94,138
Single Op 7 MHz Low Power
9A3SMS.....679,668
Single Op 3.5 MHz QRP
E71CQ.....19,228
Tribander/Single Element
Single Op All Band High Power
R8TT.....8,168,832
4X6FR.....7,810,374
RT9S.....7,592,438
VE3DZ.....7,391,280
EW5Z (EU1A).....7,095,894
Single Op 28 MHz High Power
EA4ZK.....40,670
Single Op 21 MHz High Power
DL2SAX.....440,553
JA1BPA.....218,112
Single Op 14 MHz High Power
UA9LAO.....2,389,849
RC9A.....2,325,681
RX9WN.....2,157,672
Single Op 7 MHz High Power
EW8W.....3,243,420
EV1R.....2,988,942
EV5A (EW2A).....2,389,431
Single Op 3.5 MHz High Power
YT3J.....897,684
I2IFT.....691,929
DL6HCC.....512,200
Single Op 1.8 MHz High Power
YR2V (YO2DFA).....203,255
Single Op All Band Low Power
3V8SS (KF5EYY).....5,375,150
UT4LW.....4,228,640
4Z70IARC (4Z4AK).....3,875,128
RW7F.....3,389,932
ZF9/ZF2XA (E73M).....3,058,040
Single Op 28 MHz Low Power
IT9NAN.....12,285
RD3K.....11,680
Single Op 21 MHz Low Power
PY2XC.....409,661
UR5OU.....141,201
J13BFC.....59,520
Single Op 14 MHz Low Power
I28BFD.....908,820
F5VMN.....831,616
VE3TM.....750,672
Single Op 7 MHz Low Power
OL9R (OK6RA).....2,634,810
9A1AA.....2,328,750
UT5IA.....1,589,882
Single Op 3.5 MHz Low Power
EU6RO.....400,655
S53BB.....366,916
R6CC.....278,850
Single Op 1.8 MHz Low Power
HG0R (HA0NAR).....200,448
LY4ZZ (LY2BMX).....172,235
OK5ZZ.....99,792

Single Op 14 MHz High Power
KU2M.....3,932,040
KT3M (N3AD).....2,819,520
N6CW.....2,338,314
Single Op 7 MHz High Power
NN1AA (KE1J).....3,738,640
KJ4QHL.....1,333,155
WG3J.....1,225,761
Single Op 3.5 MHz High Power
K1K1.....782,892
W3BGN.....280,250
Single Op All Band Low Power
NN3U/4 (N9NB).....3,822,944
KS9K (N4TZ).....2,717,910
K16RRN.....2,385,600
WC4E/1.....1,867,800
K1TR.....1,753,180
Single Op 28 MHz Low Power
KN4Y.....14,872
Single Op 21 MHz Low Power
AA4NP.....32,379
N6RM.....24,198
Single Op 14 MHz Low Power
W2AW (N2GM).....1,042,074
WB4TDH.....1,017,480
N4IJ/5.....929,457
Single Op 7 MHz Low Power
KA1IS.....1,150,656
W2EG.....899,205
KM4FOC (WA1FCN).....765,567
Single Op 3.5 MHz Low Power
K9UIY.....47,520
K5CAO/6.....20,967
Single Op All Band High Power Assisted
NW7R/1 (K1ZZ).....10,238,640
N3RS.....8,433,108
K3WW.....7,287,627
K07SS.....6,234,186
AB3CX/2.....5,442,822
Single Op 28 MHz High Power Assisted
NX5M.....40,650
Single Op 21 MHz High Power Assisted
WN1GIV/4 (N4BP).....630,576
Single Op 14 MHz High Power Assisted
WB9Z.....2,649,531
NT0EE.....1,922,624
W9ILY.....1,049,947
Single Op 7 MHz High Power Assisted
NQ2F (KD2RD).....2,979,595
W9PA.....1,060,878
KH6ND/NZ7/7.....495,264
Single Op All Band Low Power Assisted
N2SQW.....969,975
NX1P/7.....952,320
KS1J.....827,233
KE8G.....764,115
W1ARY.....703,912
Single Op 14 MHz Low Power Assisted
W4AMC (HK1A).....545,160
K0RC.....480,240
KM4HI.....213,150
Single Op 7 MHz Low Power Assisted
WK9U.....121,716
W0CO.....98,645
N1TA.....87,659
Single Op All Band QRP
N7IR.....554,652
W6OU (W8QZA).....331,905
KE6K/7.....88,605
KE0TT.....71,656
W1TW.....63,218

UNITED STATES

Single Op 21 MHz QRP	
WA6FGV	8,362
WF4B	4,214
Single Op 14 MHz QRP	
KZ3I	23,540
W5NZ/4	8,128
Single Op 7 MHz QRP	
W4ER	14,008
KA5S/8 (N8XX)	5,781
Single Op All Band QRP Assisted	
N3HEE	172,966
N3CZ/4	123,578
K8ZT	101,637
N3ZV/4	101,360
Single Op 14 MHz QRP Assisted	
N3HCN	138,000
NG60 (K6GHA)	62,972
K7SS	56,880
Single Op 7 MHz QRP Assisted	
NE6M	17,712
Multi-Single High Power	
K1LZ	15,118,240
K3LR	13,193,685
N4WW	9,425,178
WR1ST	6,177,830
KU7T	4,942,476
Multi-Single Low Power	
W9SN/4	3,572,589
AB9YC	1,250,480
W1FM	141,934
NJ1F/2	71,357
N9XLV	31,240
Multi-Two	
K9CT	13,452,800
NY6N	10,633,687
KN7NV/0	9,819,992
KJØD	9,195,841
KC7V	8,797,904
Multi-Multi	
NR4M	14,262,046
NA60	10,620,211
KE3X	262,566
Rookie	
Single Op All Band High Power	
K8PJK	530,250
K4AFE	27,323
Single Op 14 MHz High Power	
W4AQL (W8YZH)	51,465
Single Op All Band Low Power	
KM4SII	269,516
N1ADM/4	104,159
AC3BU	58,786
K6AKW	51,909
K5TMT	44,662
Tribander/Single Element	
Single Op All Band High Power	
N3QE	4,872,096
K3MD	3,970,427
AK5X/4 (N4PN)	3,561,840
K3WJV	2,751,059
ND9G	2,282,641
Single Op 14 MHz High Power	
W9ILY	1,049,947
WD5K	1,048,798
WA3AAN	436,590
Single Op 7 MHz High Power	
K1IM	50,779
NX4N	23,436
Single Op All Band Low Power	
WC4E/1	1,867,800
K1TR	1,753,180
W1NN/8	1,522,413
N2SQW	969,975
NX1P/7	952,320
Single Op 14 MHz Low Power	
W6ZL	245,392
KM4HI	213,150
K6LRN	211,974
Single Op 7 MHz Low Power	
W2EG	899,205
WT9Q	338,767
W2AAB	259,20



Photo B. Ted, N9NB, was the U.S. Single Operator Low Power winner.

got KP2M (*Photo A*) back on the air after Hurricane Maria and posted a fine score to place third. The remotely controlled Eastport, Maine station, KM7W, again hosted the top U.S. high power score. This time, Chris, KL9A, took his turn at the remote controls.

The most popular category by far remains the single-operator unassisted low power all band class. Paolo, IK3QAR, keyed IR4M past last year's champ, Ash, 3V8SS, into the top low power spot. The top U.S. station, NN3U/4, operated by Ted, N9NB (*Photo B*), placed fourth in the



Photo C. Kolja, DK5KK, wins the World Rookie plaque.



Photo D. Pete, K8PJK, was the North American Rookie winner.

world, just behind 4Z7ØIARC, the top Asian station. Ted said that 20 meters seemed quiet most of the weekend and he had the feeling that any station could call in from any part of the world at any time. Judging from his score, they did. The top European score came from GU3HFN, which was operated by RL5D.

Single-Operator Single Band

About one third of the entries are for a single band. Half of those are for 20 meters, which generally offers the most reliable propagation to the most places, even without sunspots. CN2DD (RA3CO, op) posted a 20-meter single band score that would have placed in the top ten all band category. WH7AA (operated by N2NL) had a big score from the middle of the Pacific Ocean to edge out a station from the far North, OH8X (OH6UM) for second place.

2018 CQWW WPX SSB TROPHY WINNERS AND DONORS

SINGLE OPERATOR ALL BAND

WORLD: Steve Bolia, N8BJQ Plaque. Won by: **8P5A** operated by Tom Georgens, W2SC
WORLD Low Power: Caribbean Contesting Consortium Plaque. Won by: **IR4M** operated by Paolo Toscano, IK3QAR
WORLD QRP: Bill Parker, W8QZA Plaque. Won by: **Gernot Trautmann, DF5RF**

USA: Dennis Motschenbacher, K7BV Plaque. Won by: **KM7W/1** operated by Christopher K. Hurlbut, KL9A
USA: Low Power: Ken Boasi, N2ZN Plaque. Won by: **NN3U/4** operated by Ted Rappaport, N9NB
USA QRP: John T. Laney, K4BAI Plaque. Won by: **Gary Hembree, N7IR**
USA Zone 3 High Power: Northern California Contest Club Plaque. Won by: **KW7Y** operated by Mitch Mason, K7RL
USA Zone 3 Low Power: Arizona Outlaws Contest Club Plaque. Won by: **Axel W. Bruderer, KI6RRN**
USA Zone 4 High Power: Society of Midwest Contesters Plaque.
 Won by: **NU5A** operated by **Dennis Alexander, K5GN**
USA Zone 4 Low Power: Society of Midwest Contesters Plaque. Won by: **KS9K** operated by Terry Zivney, N4TZ

EUROPE High Power: Ivo Pezer, 5B4ADA/9A3A Plaque. Won by: **UW2M** operated by Roman Tkachenko, URØMC
EUROPE Low Power: Vitor Santos, PY2NY Plaque. Awarded to: **GU3HFN** operated by Oleg Borisov, RL5D*
EUROPE QRP: Bruce Olney, WY7N Plaque. Awarded to: **CR5O** operated by Helder Mendes, CT7AJL*

AFRICA: Chris Terkla, N1XS Plaque. Won by: **CR3DX** operated by Tibor Ferenec, OM3RM
ASIA: Rick Tavan, N6XI Plaque. Won by: **UPØL** operated by Vladimir Vinichenko, UN9LW
NORTH AMERICA: Louisiana Contest Club Plaque. Awarded to: **KP2M** operated by Philip Allardice, KT3Y*
NORTH AMERICA Low Power: Dick Green, WC1M Plaque. Won by: **Marco A. Soto, XE2S**
NORTH AMERICA QRP: Dale Martin, KG5U Plaque. **No entrant**
OCEANIA High Power: Lloyd Cabral, KH6LC Plaque. Won by: **9M6NA** operated by Saty Nakamura, JE1JKL
OCEANIA Low Power: Wes Printz, W3SE/ZL3TE Plaque. Won by: **4E1A** operated by Klaus D Goepel, 4E1ADW
SOUTH AMERICA: Cristian Vasquez, CE3PDF Plaque. Won by: **PJ2T** operated by Jim Fitzpatrick, WI9WI
SOUTHERN CONE (CE, CX, LU) Low Power: LU Contest Group Plaque. Won by: **CB3R** operated by Dercel Gonzalez Williams, XQ3SK
CANADA High Power: Radio Amateurs of Canada (RAC) Plaque. Won by: **VY2TT**, operated by Ken Widelitz, K6LA
CANADA Low Power: Contest Club Ontario Plaque. Won by: **Bob Schofield, VE1RSM**
JAPAN: Wes Printz, W3SE/ZL3TE Plaque. Won by: **Masaki Okano, JH4UYB**

SINGLE OPERATOR, SINGLE BAND

WORLD 28 MHz Low Power: Six Stars Contest Station LS1D Plaque. Won by: **E79EA**
WORLD 14 MHz: Gene Walsh, N2AA Plaque. Won by: **CN2DD**, operated by Dimitri Kryukov, RA3CO
WORLD 7 MHz: LZ2RF Memorial (OR2F sponsor) Plaque. Won by: **Jungic Radomir-Rade, E77W**
WORLD 3.5 MHz: Ranko Boca, 4O3A Plaque. Won by: **OK7W**, operated by Stanislav Kostal, OK1C1D
WORLD 1.8 MHz: Dusko Dumanovic, ZL3WW Plaque. Won by: **Tomislav Polak, 9A2AJ**

USA 21 MHz: Charlie Wooten, NF4A Plaque. Won by: **Fritz Reuning, K4OAQ**
USA 14 MHz: Kansas City DX Club Plaque. Won by: **Peter Bizlewicz, KU2M**
USA 7 MHz: Darin Divinia, WG5J Plaque. Won by: **NN1AA**, operated by Lars Mohlin, KE1J
USA 3.5 MHz: Wes Printz, W3SE/ZL3TE Plaque. Won by: **Tom Frenaye, K1KI**

EUROPE 3.5 MHz: Ranko Boca, 4O3A Plaque. Awarded to: **RK KOSMOS, YT3J***

SINGLE OPERATOR ASSISTED

WORLD: D4C Monteverde Contest Team Plaque. Won by: **EF8R**, operated by Juan Hidalgo, EA8RM
USA: Ron Sigismonti, N3RS Plaque. Won by: **NW7R/1**, operated by Dave Sumner, K1ZZ
EUROPE: Martin Huml, OLSY Plaque. Won by: **SN7Q**, operated by Krzysztof Sobon, SP7G1Q
OCEANIA: Sid Caesar, NH7C Plaque. Won by: **KH7B**, operated by Bill Kollenbaum, KH7XS
CANADA: Tom Haavisto, VE3CX Plaque. Won by: **Gilles Renucci, VA2EW**
CHINA: LZ9W Contest Team Plaque. Won by: **Lao Jianjun, BA7QT**

Forty meters with its double points for DX contacts featured some healthy competition despite the seasonal reduction in the hours of darkness in late May. E77W had the top score, but SN3A and EF2A were in close pursuit. NN1AA (K1EJ, op) ran away from other state-side 40-meter stations. K1KI broke W3BGN's dominance of the U.S. on 80 meters.

Single-Operator Assisted

A total of 1,706 single operator entries reported using QSO alerting assistance. EF8R (EA8RM, op) led the pack for the top all band assisted score. NW7R/1 (K1ZZ, op), won the U.S. crown again, beating N3RS.

John, W2GD, keyed P4ØW to the world-high all band low power assisted score. N2SQP gets U.S. low power assisted bragging rights, edging past NX1P/7.

Single-Operator QRP

Over 300 determined individuals used 5 watts or less to make their point(s), a

decrease of 10% from last year. DF5RF remains the world QRP champ, while N7IR regains his ranking as the U.S. champ. OK2FD also regained the top of the assisted QRP heap. Unlike the high power 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, 63 entries checked this overlay category with about half of the Rookies entering an assisted category with most choosing to use low power. DK5KK (Photo C) won the Rookie plaque with an all band high power effort. K8PJK (Photo D) was the U.S. Rookie winner.

The Tribander/Single-Element overlay category was established to recognize that many stations face space constraints for antennas. Over 750 entrants selected this overlay. R8TT posted the

OVERLAY CATEGORIES

USA Tribander/Single-Element: Joe Miller, KJ8O Plaque. Won by: **Tim Shoppa, N3QE**

Europe Tribander/Single-Element: Matija Brodnik, S53MM Plaque.

Won by: **EW5Z operated by Sergey Babakhin, EU1A**

WORLD Rookie: Val Edwards W8KIC Memorial (K3LR sponsor) Plaque. Won by: **Kolja Kollorz, DK5KK**

NORTH AMERICA Rookie: Chris Kantarjiev, K6DBG Plaque. Won by: **Peter Kulik, K8PJK**

MULTI-OPERATOR, SINGLE-TRANSMITTER

WORLD: Walter Skudlarek, DJ6QT memorial by Rhein-Ruhr DX Association Plaque. Won by: **K1LZ operated by K1LZ, K1ZM, AE2W, KO8SCA, and K3JO**

WORLD-Low Power: Mike Goode, N9NS Memorial by Hoosier DX and Contest Club Plaque. Won By: **VP5M operated by K4QPL, K4BAI, and KK4R**

USA: Phil Allardice, KT3Y Plaque. Awarded to: **K3LR operated by K3LR, DL1QQ, K3UA, N2NC, and W2RQ***

ASIA: W2MIG Memorial (Ed Campbell, NW4DX, Sponsor) Plaque. Won by: **RTØC operated by RNØC, RCØCB, UAØCDX, RWØCR, and RWØCN**

EUROPE: YO3CTK Memorial by Andy Ruse YO3JR/YR1A Plaque. Won by: **LZ5R operated by LZ1JZ, LZ1NK, LZ1UK, LZ1YQ, LZ1ZX, LZ2DF, LZ2PL, LZ2XA, LZ3ND, LZ4UX, LZ5ZM, RN5M, and S55M**

EUROPE-Low Power: LZ2PO Memorial by LZ9W Contest Team Plaque. Won by: **YU5R operated by YT2AAA, YT7AW, and YU1XX**

NORTH AMERICA: Rich Strand, KL7RA Memorial Plaque. Awarded to: **V3A operated by V31FG, V31HE, V31MA, V31PS, and V31YN***

CHINA: Andrey Sachkov, LZ2HM Plaque. Won by: **BY8AC operated by BA8AG, BA8AT, BA8BA, and BD8BIN**

MULTI-OPERATOR, TWO-TRANSMITTER

WORLD: UA1DZ Memorial (W3UA Sponsor) Plaque. Won by: **P33W operated by 4Z5LA, LZ2HM, R4FO, RA2FA, RK4FD, UA4FER, and RA3AUU**

USA: Florida Contest Group Plaque.

Won by: **K9CT operated by NQ6N, K9ZO, K9CT, WT2P, K3WA, NN1N, and N9CK**

EUROPE: Tom Georgens, W2SC Plaque. Won by: **OM7M operated by OK2BFN, OM2KI, OM2IB, OM3PA, OM5RM, OM5RW, and OM5ZW**

MULTI-OPERATOR, MULTI-TRANSMITTER

WORLD: Steve Merchant, K6AW Plaque. Won by: **9A1A operated by 9A5W, 9A9A, 9A7R, 9A6A, 9A8A, 9A2EU, 9A7DR, 9A3XV, 9A1UN, 9A6XX, 9A5CW, IZ8FWN, IV3SKB, and 9A4M**

EUROPE: Jeff Demers, N1SNB Plaque. Awarded to: **LZ9W operated by LZ1ZD, LZ2CJ, LZ1PM, LZ1UQ, LZ3FM, LZ2UU, LZ4AE, LZ2YO, LZ2HQ, LZ1PJ, LZ1BJ, and LZ1VS***

CONTEST EXPEDITION

WORLD: Phil Goetz, N6ZZ Memorial by Paul Goetz Trophy. Won by: **Not awarded**

COMBINED AWARDS

WORLD Single Operator Combined Score (SSB and CW): Yuri Blarovich, K3BU Plaque. Won by: **8P5A operated by Tom Georgens, W2SC**

USA Single Operator Combined Score (SSB and CW): Bill Fisher W4AN Memorial Plaque (KM3T Sponsor). Won by: **AC1U operated by Ed Sawyer, N1UR**

WORLD Single Operator Combined Prefixes: Norm Koch, WN5N Memorial by Gail M. Sheehan, K2RED Plaque. Won by: **8P5A operated by Tom Georgens, W2SC (2,277 total)**

CQ WPX Contest Triathlon Award (Single Operator Combined Score on RTTY, SSB, and CW): Rudy Bakalov, N2WQ Plaque. Won by: **Victor Yarovoy, UW1M (21,551,282 points, 7,948 QSOs)**

WORLD Club Score: CQ Magazine Plaque. Won by: **Bavarian Contest Club, 196,561,447 points**

**Denotes awarded to runner-up in category*

world high score while N3QE repeated as the leader among the U.S. competitors. 3V8SS had the highest low power TB/wires score while WC4E/1 paced the U.S. low power group.

Multi-Operator

There seems to be a different station atop the Multi-Single category every (single) year. This year was the battle of the LZeds, with the U.S. team at K1LZ beating out the team at LZ5R. VP5M wins the plaque in the Multi-Single Low Power category, beating out YU5R. A group of remotely-connected operators keyed W9SN/4 to the top U.S. low power score.

P33W repeated as the Multi-Two winner. K9CT takes the U.S. plaque. The Multi-multi class also had a repeat champion, 9A1A, with the LZ9W team finishing second. NR4M was the top U.S. station, fifth place worldwide.

Club Competition

The Bavarian Contest Club defended their club title while the EA Contest Club edged out the Ukrainian Contest as runner up DX club. The Yankee Clipper Contest Club roared past the PVRC to take the U.S. title.

Records

CN2DD set a new world record for 14

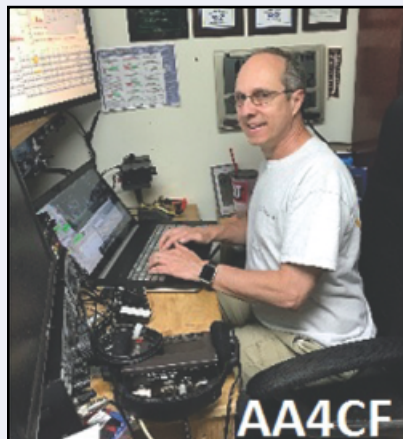
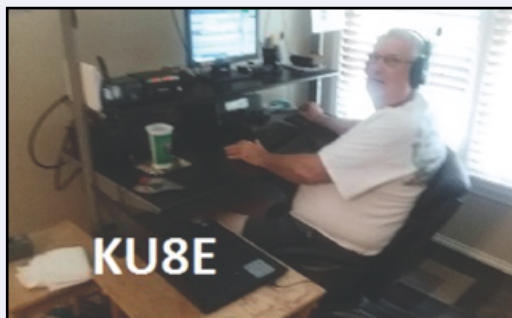
Corrections to WPX SSB Plaques

- The winner of the World Multi-Single High Power plaque is CN2AA, operated by LY4A, RL3FT, UA3ASZ, UA4Z, RK3AD, RN2FA, RU9I, and RM9I.
- The winner of the ASEAN (3W, 9M, 9V, DU, HS, V85, XU, XW, XZ, YB) Low Power YB Land DX Club plaque is: Yohanes Budiono, YB2DX.
- The winner of the Indonesia Single Operator (Any Category) Anda Yudas, YB6HAI plaque is: Yana Koryana, YB1AR.

W9SN/4 Remote

This was our very first 100% remote control, multi-operator contest. We assembled an 8-member team from four states across the country. Two members were here onsite using a wifi connection to the racked Flex radios. The other six members operated remotely over our fiber internet connection. Everything was automatic for band changing, switches, and rotor controls. Two members even had iambic remote paddles.

We all ran our networking windows open to see where the other ops were. They could watch their key strokes, and



Four of the operators from the W9SN/4 remote Multi Single Low Power operation.

adjust their operating accordingly. Ops that were between shifts, could watch the contest on their screens. Members followed a schedule that was put out before the contest. This way, they know what times and rigs they would be using, and who would be operating remotely with them.

Most everyone got a new experience operating remote, Flex rigs, automatic controls, and in a contest, with other remote members. The lockouts worked perfectly. The Flex radios with automatic controls were simply amazing. As successful as this was, it was not without issues. Not only were there poor band conditions early Sunday, at 2130Z Sunday we lost power and then hooked up a generator. This resulted in a server that decided to go nuts afterwards. An additional 2 hours were lost rebuilding it. But with 90 minutes to go, we got it all going with 3 remote ops. We finished strong as the bands got better towards the end.

Since we were not in the same room to talk, we used other methods to communicate for band changes. This changed the way we'll contest going forward. Team members who cannot travel and take the time for a full weekend, can now get a time slot to operate from the comfort of their own home, and have access to other hardware. What a wonderful learning experience! My hats off to the team for their willingness to learn new things, perform at a high level as always, and have patience while I had to navigate these uncharted waters. Thanks to everyone for the Qs! –Steve, W9SN



A view of the inside hardware used in the W9SN/4 remote station during the CQWW WPX CW contest.

MHz. New continental records were set by WH7AA (Oceania 14 MHz) and CN3A (Africa, Multi Two). New U.S. records were set by K1KI (3.5 MHz) and NN1AA (7 MHz). Congratulations to all of them! 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 2,108 single operator stations while

1,451 used high power and 306 went QRP, similar proportions from a year ago. Overall, unassisted operation was still favored by a majority of the single operators, 2,159 to 1,706. High power stations favored assisted (842 vs. 609) while low power operators continue to overwhelmingly endorse the “boy and his radio” style of operation (1,334 unassisted vs. 774 assisted) and the QRP ops voting 216 to 90 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.

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	CN2DD('18)	9,738,872	1144
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	P4ØW('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	KIKI('18)	782,892	396
7.0	NN1AA('18)	3,738,640	680
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
-----------	------------	------

Multi-Operator Single Transmitter

KM3T/1('12)	15,311,340	1254
-------------	------------	------

Multi-Operator Two Transmitter

P33W('16)	42,511,820	1495
-----------	------------	------

Multi-Operator Two Transmitter

NN3L('12)	21,964,974	1362
-----------	------------	------

Multi-Operator Multi-Transmitter

HC8N('99)	54,697,072	1264
-----------	------------	------

Multi-Operator Multi-Transmitter

NR4M('12)	26,785,984	1426
-----------	------------	------

CLUB RECORD

Bavarian Contest Club ('12)	441,610,686
-----------------------------	-------------

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	CN2DD('18)	9,738,872	1144
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('15)	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	UPØL('17)	12,798,242	1013

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	CN3A('18)	35,274,220	1420
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('92)	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	P4ØW('97)	4,018,208	632

OCEANIA

1.8	KH6ND('07)	22,100	50
3.5	KH6ND('09)	596,673	231
7.0	ZM3A('09)	6,437,695	737
14	WH7AA('18)	6,186,952	964
21	KH6ND('99)	6,107,256	813
28	KH6ND('00)	1,523,008	424
AB	KH7XX('15)	12,449,866	1111

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.cqwp.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. Doug, K1DG, handles the plaques in a very timely manner. A special thanks to those who choose to donate the

plaques. 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 2019 CQ WPX CW Contest will be held **May 25-26**. The log deadline is five days after the conclusion on the contest, **May 31 at 2359Z**. Updated rules will be announced in the January issue of CQ and will be posted on the www.cqwp.com website.

(Scores on page 101)

CLUB SCORES

UNITED STATES

Club	# Entrants	Score
YANKEE CLIPPER CONTEST CLUB	92	166,772,292
POTOMAC VALLEY RADIO CLUB	143	144,195,916
NORTHERN CALIFORNIA CONTEST CLUB	118	117,979,387
FRANKFORD RADIO CLUB	71	101,297,588
SOCIETY OF MIDWEST CONTESTERS	92	55,125,168
SOUTHERN CALIFORNIA CONTEST CLUB	52	44,154,713
ARIZONA OUTLAWS CONTEST CLUB	51	40,196,543
FLORIDA CONTEST GROUP	48	31,660,294
WILLAMETTE VALLEY DX CLUB	37	26,400,829
CENTRAL TEXAS DX AND CONTEST CLUB	18	25,480,011
ALABAMA CONTEST GROUP	27	22,455,030
MINNESOTA WIRELESS ASSN	56	20,284,571
GEORGIA CONTEST GROUP	9	19,881,095
DFW CONTEST GROUP	18	19,489,752
WESTERN WASHINGTON DX CLUB	18	15,009,318
MAD RIVER RADIO CLUB	24	14,455,827
NORTH COAST CONTESTERS	16	14,288,561
GRAND MESA CONTESTERS OF COLORADO	13	12,558,305
DEEP DIXIE CONTEST CLUB	11	7,654,248
KENTUCKY CONTEST GROUP	16	7,292,202
TENNESSEE CONTEST GROUP	21	7,063,158
599 DX ASSOCIATION	5	7,011,812
TEXAS DX SOCIETY	14	6,262,378
BIG SKY CONTESTERS	12	6,088,560
SOUTH EAST CONTEST CLUB	21	5,504,683
HUDSON VALLEY CONTESTERS AND DXERS	17	5,326,206
KANSAS CITY CONTEST CLUB	9	3,943,629
NORTH TEXAS CONTEST CLUB	8	3,890,002
NE MARYLAND AMATEUR RADIO CONTEST SOCIETY	13	3,412,448
ORDER OF BOILED OWLS OF NEW YORK	11	2,692,421
SWAMP FOX CONTEST GROUP	14	2,525,977
NORTHERN ARIZONA DX ASSN	4	1,934,312
METRO DX CLUB	9	1,878,219
ROCHESTER (NY) DX ASSN	10	1,501,936
BRISTOL (TN/VA) ARC	7	1,377,658
NORTHEAST WISCONSIN DX ASSN	7	1,368,963
NIAGARA FRONTIER RADIOSPORT	13	1,249,840
NORTH CAROLINA DX AND CONTEST CLUB	5	997,778
CAROLINA DX ASSOCIATION	11	986,424
DELARA CONTEST TEAM	4	916,879
MILFORD OHIO AMATEUR RADIO CLUB	6	658,033
SPOKANE DX ASSOCIATION	11	589,393
SILVER COMET AMATEUR RADIO SOCIETY	5	525,797
GREAT SOUTH BAY AMATEUR RADIO CLUB	5	348,060
SKYVIEW RADIO SOCIETY	8	299,580
NEW PROVIDENCE ARC	4	275,184
MOTHER LODE DX/CONTEST CLUB	5	262,047
SUNDAY CREEK AMATEUR RADIO FEDERATION	4	241,857
HILLTOP TRANSMITTING ASSN	5	171,450

DX

Club	# Entrants	Score
BAVARIAN CONTEST CLUB	203	194,022,710
EA CONTEST CLUB	63	140,281,794
UKRAINIAN CONTEST CLUB	157	136,889,924
CROATIAN CONTEST CLUB	40	112,100,844
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	53	106,065,551
CONTEST CLUB ONTARIO	50	92,836,957
ITALIAN CONTEST CLUB	86	90,973,536
RUSSIAN CONTEST CLUB	72	89,150,337
ARAUCARIA DX GROUP	32	88,823,554
RHEIN RUHR DX ASSOCIATION	99	81,214,638
SLOVENIA CONTEST CLUB	38	76,898,268
HA-DX-CLUB	29	71,263,655
CONTEST CLUB FINLAND	35	52,598,531
CONTEST CLUB SERBIA	44	50,356,876
LATVIAN CONTEST CLUB	27	41,315,168
BELARUS CONTEST CLUB	28	37,858,641
SP DX CLUB	40	37,795,844
CONTEST GROUP DU QUEBEC	7	32,214,774
URAL CONTEST GROUP	21	31,922,834
VK CONTEST CLUB	21	26,007,718
LU CONTEST GROUP	31	24,116,104
BELOKRANJEC CONTEST CLUB	10	23,976,076
BOSNIA AND HERZEGOVINA CONTEST CLUB	10	23,190,264
ORCA DX AND CONTEST CLUB	21	21,414,830
LA CONTEST CLUB	10	20,574,028

SOUTH URAL CONTEST CLUB	8	18,353,241
RIO DX GROUP	52	18,313,118
THRACIAN ROSE CLUB	43	17,743,097
CLIPPERTON DX CLUB	8	14,810,471
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	15	12,750,831
YO DX CLUB	17	11,825,253
LITHUANIAN CONTEST GROUP	9	11,055,046
RIIHIMAEN KOLMOSET	6	10,163,302
WORLD WIDE YOUNG CONTESTERS	8	9,814,031
OMSK RADIO CLUB	10	9,497,386
YB LAND DX CLUB	55	9,399,887
SIAM DX GROUP	18	7,733,117
MARITIME CONTEST CLUB	12	7,733,014
WEST SERBIA CONTEST CLUB	5	7,623,432
CZECH CONTEST CLUB	5	7,047,222
RUSSIAN CW CLUB	33	6,853,179
ARKTIKA	12	6,659,979
VRHNIKA CONTESTERS	7	6,253,134
DANISH DX GROUP	17	6,159,021
TARTU CONTEST TEAM	4	6,116,432
CSM CRAIOVA	6	6,077,711
CE CONTEST GROUP	4	5,751,186
GIPANIS CONTEST GROUP	10	5,738,358
RADIOSPORT MANITOBA	4	5,108,932
SAUDI CONTEST GROUP	5	5,106,364
CSTA SUCEAVA	5	5,022,440
CS PETROLUL PLOIESTI	8	4,839,879
ARCK	14	4,785,668
CATALONIA CONTEST CLUB	4	4,258,532
IVANOVO DX CLUB	4	4,164,553
ALRS ST PETERSBURG	11	3,870,381
CDR GROUP	52	3,831,236
ARIPA DX TEAM	5	3,653,867
SPEKTR	6	3,078,443
MEDITERRANEO DX CLUB	7	2,848,787
THAILAND DX ASSOCIATION	4	2,706,432
PEMBROKESHIRE CONTEST GROUP	4	2,553,398
SHAKHAN CONTEST CLUB	6	2,479,039
CHILTERN DX CLUB	11	2,369,986
UA2 CONTEST CLUB	12	2,309,471
VU CONTEST GROUP	13	2,233,494
LKK LVIV SHORTWAVE CLUB	9	2,112,398
NOVOKUZNETSK RADIO CLUB	8	1,820,624
MAUI AMATEUR RADIO CLUB	4	1,767,036
RADIO CLUB VENEZOLANO CARACAS	10	1,600,095
BLACK SEA CONTEST CLUB	12	1,566,964
CENTRAL SIBERIA DX CLUB	4	1,559,363
PODOLSK	4	1,485,419
VLADIMIR CONTEST GROUP	9	1,472,949
GUARA DX GROUP	22	1,122,479
RU-QRP CLUB	11	1,095,474
FUCHU AMATEUR RADIO CLUB	5	1,088,043
YB6 DX CLUB	12	1,079,888
RADIO CLUB KVARNER RIJEKA	6	1,038,935
CSU PITESTI	5	994,977
SK6AW HISINGENS RADIOKLUBB	5	952,104
CS CEHLAUL PIATRA NEAMT	4	874,023
YYP CLUB	4	843,458
DONBASS CONTEST CLUB	4	812,160
PALATUL COPIILOR SI ELEVILOR ORADEA	4	784,611
SK5AA VASTERAS RADIOKLUBB	7	738,894
UPPSALA RADIOKLUBB	5	611,991
AGB ACTIVITY GROUP OF BELARUS	5	572,450
GMDX GROUP	8	531,283
CHILEAN PACIFIC DX GROUP	6	529,369
KRIVBASS	6	474,895
OBNINSK QRU CLUB	5	417,890
LA-DX-GROUP	4	286,261
KEYMEN'S CLUB OF JAPAN	8	254,826
THE AKITA DX ASSOCIATION	5	248,358
CABREUVADX	7	240,987
RTTY CONTESTERS OF JAPAN	4	232,951
SHARP HAM CLUB	6	232,205
SINGLE FIGHTER DX GROUP	13	230,434
SAYAN DX CLUB	4	223,526
MUMBAI AMATEUR RADIO INSTITUTE	10	211,934
ORARI LOKAL KEDIRI	16	177,285
599 CONTEST CLUB	6	174,529
BANDUNG CONTEST CLUB	5	164,753
OSTROW AMATEUR RADIO CLUB SP3POW	4	104,654
JAPAN CONTESTER'S CLUB	7	95,326
BAHIA DX GROUP	4	92,268
599 DX GROUP	5	18,874