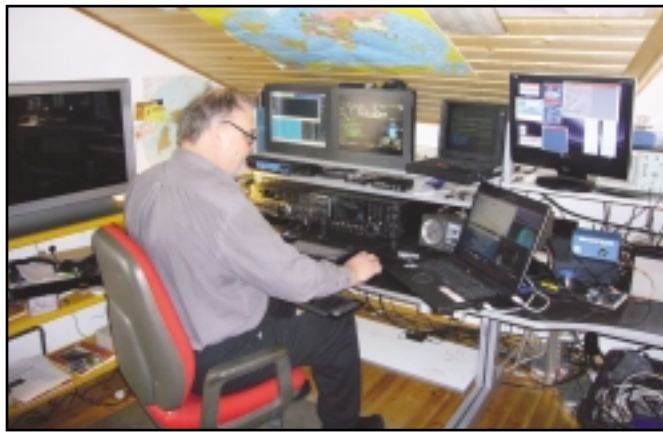




Roger, N4RR, racked up another decisive SOLP world win, this time from Bonaire as PJ4R.



Kari, OH2BP, escaping the frigid Finnish winter in his cozy SO2R RTTY shack.

Results of the 2010 CQ WPX RTTY Contest

BY ED MUNS,* WØYK

The 16th annual CQ WPX RTTY Contest once again broke the participation record with 2404 submitted logs, up 16% from last year's record number, which was up 11% from 2007. The number of different callsigns logged was similar to last year's number, around 16,000. However, there were over one-million QSOs, 27% more than in 2009 (compared to an 8% increase from 2007 to 2008) partially due to relatively good propagation conditions across 80–15 meters with a bit more activity on 10 meters than we've seen in recent years. The money band for QSO points was 40 meters. 170 countries appeared across all logs.

65% of the QSOs in the submitted logs were made by stations who made a total of less than 500 QSOs. 23% of the QSOs in the submitted logs were made with stations who did not submit a log and averaged less than 18 QSOs. There were 13,600 participants not listed in the line scores because they didn't submit logs, but who are always important to the success of the contest.

Participants interested in maximizing contacts, and perhaps new mults for various awards, were most rewarded on 20 and 15 meters. Those who sought to maximize their score made sure they got everything they could out of 40 meters where half the QSO rate nets the same points as on the high bands. Single ops, limited to 30 hours, had to strategically apply their time as one of their operating skills in this contest. For most, it was beneficial to be on 40 meters whenever it was open, supplementing with 80 meters, depending on rate and station capability. As the solar flux rises, the high bands will become more effective, despite their half-point value, and conversely the low bands will become less effective.

All of this resulted in 11 new world records and 35 new continental records. What a wonderful tribute to the continued growth of RTTY contesting with increasing numbers of both new and veteran contesters embracing the RTTY mode.

Single-Operator

Single-Operator, Low Power (SOL). PJ4R (N4RR) handily took top honors once again with 5.4M, but Roger did so from Bonaire this time, sticking to the obvious advantages of a northern South America location. Wanderley, PY2MNL, a very familiar LP RTTY competitor also in South America, activated ZX2B for second place worldwide with 4.6M. Third and fourth was a photo finish (4.31M each!) with Fabi, VA2UP, moving past Filipe, CT1ILT, based on a lower error rate. Fabi broke the North America record and Filipe broke the Europe record. Mark, WE4M, broke the USA record. Steve, ZC4LI, won Asia, approaching close to the Asia record. Heijo, DJ1JO, operating EA8OM won Africa, and Felimon, DV1JM, came out on top in Oceania.

Single-Operator, High Power (SOH). This category set a new world record and five new continental records. Thanks to above normal conditions from Aruba, P49X (WØYK) broke the world record for the fourth year running by 19% with a score of 13.3M. Serge, 5B/UTØU (UT5UDX), was second worldwide and blasted the Asia record by 46% with 9.1M. Mike, K4GMH, took third by raising the North America record 15% to 7.9M. Boyan, LZ8E (LZ2BE), was fourth and broke the European record by 39% with 7.5M, a record previously held by Serge, G6PZ (UT5UDX). Fifth was the top Africa entry, Mohamed, CN2R (CN8KD), a very familiar RTTY contester with 6.5M. Massimo, KH6ZM, lifted the Oceania record 21% to 3.3M.

Single-Operator, Single Band 3.5 MHz.

Salvatore, IV3YIM, took first place in Low Power and set a new world record with 1.1M points. The next 19 places were in Europe! Dai, JF2IWL, raised the Asia record he set last year.

In the High Power category Sasa, 9A1CCY, broke the world record with 2.5M and the next 12 finishes were from Europe. The first Africa record was established by Jose, CT3BD, with 158K.

Single-Operator, Single Band 7 MHz. The first nine places in Low Power were from Europe, with Ari, IQ3UD (IW3SQY), breaking the world record with 2.2M points. Pasquale, YW5RY (YV5KAJ), broke the South America record with 799K, while Jim, KC4HW, broke the North America record with 692K. In Asia, Toshi, JE2UFF, more than doubled his own record to 524K. Fady, YB8FL, raised the Oceania record more than four times to 194K. There were no Africa entries this year.

Miha, S53M (S51FB), raised the High Power world record by 19% to 4.7M, with Europe taking the first four places in 2010. Earl, AE5AA (N5ZM), broke the North America record with 2.7M and Gennadiy, UN1L, shattered the Asia record by 107% with 2.1M.

Single-Operator, Single Band 14 MHz. Joel, VX6WQ (VE6WQ), took first place Low Power and set a new Canada record with 1.1M points. Second place with a new USA record was Bill, AKØA, with 1.0M. Third (first in Europe) was Sally, G2YL, with 620K.

Antonio, CT3EN, broke the High Power world record by 18% with 3.4M points. Krzysztof, SN7Q, was second, topping Europe with 2.1M and Don, WW4R (N4ZZ), was third, winning in the USA with 1.8M.

Single-Operator, Single Band 21 MHz. Jose, CT3KY, set a new Low Power world (and, Africa) record with 1.4M points. Peter, 6W2SC (HA3AUI), was second with 1.2M (and a very

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low error rate), also breaking the prior world and Africa records. Third, with a new South America record, was Francesco, YV1FM, with 1M. Yuri, UP6P (UN6P), took fourth, setting a new Asia record with 797K. A new Europe record was set by Francisco, EA7ISH, with 659K, a new North America record was set by Gonzalo, XE3N, with 505K, and a new Oceania record was set by Nur, YB8EL, with 221K.

Ezequiel, LP2F (LU1FDU), broke the world and South America records in High Power with 2.2M points. Luis, CX4AAJ, took second with 1.7M. Nikola, 9A5W, took third with 1.5M, just short of his Europe record. Charles, KK5OQ, was fifth, with 1.1M, narrowly missing the North America record.

Single-Operator, Single Band 28 MHz. Masa, JF1RYU, set a new Low Power world and Asia record. Alisson, PU5AAD, took third with a new South America record, and Miro, YU2A, took fourth with a new Europe record.

Alexander, UA0SW, was first in High Power and Alex, RU6CQ, was second.

Multi-Operator

Multi-Operator Single-Transmitter (MS). The EE8E team (Juan, EA8CAC, Olli, EA4BQ [OH0XX], and Pekka, EA8AH [OH1RY]) operated the EA8AH station to smash the world record by 64% with 14.2M points. In second place was E73M (Boris, E73M, E73Y, E74A,

and E74KC) with 8M. Sue, P41YL (AI6YL), took third with 7.9M and broke the South America record by 44% with hubby Carl, P49V (AI6V), who enjoyed sending "88" when she let him operate! In fourth, and breaking the Asia record by 34% with 7.4M points, was the RK9CWA team of Serge, UA9CGA, Mikhail, RW9CF, and Alex, RA9DF.

Multi-Operator Two-Transmitter (M2). 2009's winner and Europe record holder Z37M (Z31MM, Z32ID, Z35T, Z35X, Z36N, Z36W, and Roberto) broke that record by 31% with 12.0M points. *However*, 4O3A (Ranko, 4O3A, Dragon, 4O4A, Bore, 4O6Z, Acim, YU1YV, Simon, S51D, and Zlatko, Z30A) broke the Europe record by 57% with 14.5M points and took first place this year. Third was captured by the RW0A team (RA0AM, RA0ALM, RV0AU, RV0AU, RV0AR, RV0AX, RU0AM, RU0AKB, RX0AE, RZ0AT, and Daniil) with 9.3M and a new Asia record. OH6R (OH3CV, OH3FM, OH3MFP, OH3LQK, OH6MLC, OH6NMY, and K0SSU) was fourth with 8.9M. and EA8URL (EA8URL, EA8AXB, EA8AZM, EA8BEX, EA8BQM, EA8DP, EA8GL, EA8NL, EA8RY, EA8AKN) was fifth with 8.4M.

Multi-Operator Multi-Transmitter (MM). HG1S (HA1TJ, HA1DAC, HA1DAI, and HA1DAE) broke their own Europe record from last year by 38% with 14.5M points. LZ9W (LZ1ANA, LZ1FG, LZ1ZD, LZ2HM, LZ2UZ, LZ3FM, and YL Nesi) took second with 8.7M, and KA4RRU (KA4RRU, K3UI, N4DXS, and K14ZKJ) was third with 6.7M. VE7UF (VA7FC,

2010 CQ WPX RTTY CONTEST TROPHY SPONSORS AND WINNERS

Single Operator High Power

World: Sponsored by ContestRank.com (in memory of SP9ERV). **Winner: P49X (Op: Ed Muns, W0YK)**

Africa: Sponsored by Andrei Stchislenok, EW1AR-NP3D (in Memory of EU1MM). **Winner: CN2R (Op: Mohamed Kharbouche, CN8KD)**

Asia: Sponsored by Tyler Stewart, K3MM. **Winner: 5B/UT0U (Op: Sergey Rebrov, UT5UDX)**

Europe: Sponsored by DL-DX RTTY Contest Group. **Winner: LZ8E (Op: Boyan Petkov, LZ2BE)**

N.A.: Jeff Demers, N1SNB. **Winner: Mike Sims, K4GMH**

Canada: Fabi Bertolotto, VA2UP. **Winner: VC2E (Op: Daniel Richer, VE2SB)**

USA: Sponsored by Glenn Vinson, W6OTC. **Winner: Tyler Stewart, K3MM**

7th Call Area (USA): Sponsored by Hank Lonberg, KR7X (in memory of Bob Wruble, W7GG). **Winner: Hank Lonberg, KR7X**

Single Operator Low Power

World: Sponsored by Mike Sims, K4GMH. **Winner: PJ4R (Op: Roger Hoffman, N4RR)**

Europe: Sponsored by Trey Garlough, N5KO. **Winner: Filipe Monteiro Lopes, CT1ILT**

N.A.: Sponsored by Wayne King, N2WK. **Winner: Fabi Bertolotto, VA2UP**

South America: Sponsored by Francisco "Siso" Hennessey, Jr, HK3W. **Winner: ZX2B (Op: Wanderley Ferreira Gomes, PY2MNL)**

Canada: Claude Duberger, VE2FK. **Winner: Robert Loranger, VE2AXO**

Japan: GOMAGARA Contest Club, JA6ZPR. **Winner: Masaki Okano, JH4UYB**

USA: Sponsored by Jim Reisert, AD1C. **Winner: Mark Sihlanick, WE4M**

Single Operator Single Band

3.5 MHz World High Power: Sponsored by Sue Cook, AI6YL/P40YL. **Winner: 9A1CCY (Op: Sasa Pokorni, 9A3NM)**

7 MHz World High Power: Sponsored by ContestRank.com (in memory of SP9EWO). **Winner: S53M (Op: Miha Habic, S51FB)**

7 MHz World Low Power: Sponsored by Don Reed, K2OGD. **Winner: IQ3UD (Op: Ari Udine, IW3SQY)**

14 MHz World High Power: Sponsored by Steve "Sid" Caesar, NH7C. **Winner: Antonio Duarte Costa Gomes, CT3EN**

14 MHz World Low Power: Sponsored by Kenny Young, AB4GG. **Winner: VX6WQ (Op: Joel Weiner, VE6WQ)**

21 MHz World High Power: Sponsored by Steve Jarrett, K4FJ. **Winner: LP2F (Op: Ezequiel Reinaldi, LU1FDU)**

21 MHz World Low Power: Sponsored by Doug Faunt, N6TQS. **Winner: Jose Duarte Sousa Goncalves, CT3KY**

28 MHz World High Power: Sponsored by Steve Hodgson, ZC4LI. **Winner: Alexander Ilyin, UA0SW**

Multi-Op Single Transmitter

World: Sponsored by Steve Merchant, K6AW. **Winner: EE8E (Ops: EA4QB [OH0XX], EA8AH [OH1RY], EA8CAC)**

Asia: Sponsored by CT3 Madeira Contest Team/CQ9K/CT9M. **Winner: RK9CWA (Ops: UA9CGA, RW9CF, RA9DF)**

Europe: Sponsored by Toomas Soomets, ES5RY. **Winner: E73M (Ops: E73M, E73Y, E74A, E74KC)**

N.A.: Sponsored by Whatcom Amateur Radio Society. **Winner: WW4LL (Ops: WW4LL, K4ZJ, K9MUG, NP3D)**

Multi-Op Two Transmitter

World: Sponsored by Nick Smith, W4GKM. **Winner: 4O3A (Ops: 4O3A, 4O4A, 4O6Z, YU1YV, S51D, Z30A)**

N.A.: Sponsored by Ed Muns, W0YK. **Winner: KF4QQY (Ops: KF4QQY, W4MYA)**

U.S.A.: Sponsored by CTRI Contest Group. **Winner: N2BJ/9 (Ops: N2BJ, K2PAC)**

Multi-Op Multi-Transmitter

World: Sponsored by Abroham Neal Software by K3NC. **Winner: HG1S (Ops: HA1TJ, HA1DAC, HA1DAI, HA1DAE)**

N.A.: Sponsored by Fred Dennin, WW4LL. **Winner: KA4RRU (Ops: KA4RRU, K3UI, N4DXS, K14ZKJ)**

Canada.: Sponsored by KA4RRU Contest Group. **Winner: VE7UF (Ops: VA7FC, VA7RN, VE7AX, VE7FO, VE7UF)**

Club Competition

World: Sponsored by Potomac Valley Radio Club. **Winner: Bavarian Contest Club**

N.A.: Sponsored by Northern California Contest Club. **Winner: Potomac Valley Radio Club**



Sergey, UR2QQ, supplied the only UR9 prefix to many stations with just 5 watts to an inverted-Vee antenna.



Daniel, VE2SB, operating as VC2E, pushed past VA3DX for a narrow win in Canada and is already planning for an even bigger effort in 2011!

VA7RN, VE7AX, VE7FO, and VE7UF) was fourth with 5.2M, and DL3VTA (DL3VTA, DL1DVE, and DF2CK) was fifth with 4.4M.

Club Competition

Once again the Bavarian Contest Club took top honors with over 59M points from 71 logs, which was also the highest number of club participants. Also a repeat, second place went to the Ukrainian Contest Club with 41M points and 38 logs. Third place was captured by the Potomac

Valley Radio Club with 36M and 39 logs. The Rhein Ruhr DX Association was fourth with 34.0M and the Northern California Contest Club was fifth with 33.8M. Club competition is a fun way for clubs to get more stations on the air and increase participation in the contest.

When submitting a log for any CQ contest, be sure that the club name is exactly, character by character, the same as listed on the club name list at <www.cqww.com/clubnames.htm>. Do not abbreviate, add periods, include other information in parentheses, etc. A computer program

TOP SCORES

WORLD SINGLE OPERATOR HIGH POWER ALL BAND

P49X (W0YK).....	13,300,632
5B/UT0U (UT5UDX).....	9,105,744
K4GMH.....	7,876,920
LZ8E (LZ2BE).....	7,547,400
CN2R (CN8KD).....	6,469,920
S50A (S50XX).....	6,294,750
K3MM.....	6,158,748
RD3AF.....	5,348,200
E05M (UR0MC).....	5,198,842
AA3B.....	5,167,272

28 MHz

UA0SW.....	13,860
RU6CO.....	12,012
IK3ASM.....	420

21 MHz

LP2F (LU1FDU).....	2,222,207
CX4AAJ.....	1,725,636
9A5W.....	1,515,220
UX0FF.....	1,208,832
K4SOQ.....	1,146,036
UW1M (UR5MW).....	1,066,418
K4FJ.....	977,040
OH7MJU.....	821,328
W06O (N6ML).....	763,758
RA3SI.....	608,300

14 MHz

CT3EN.....	3,447,686
SN7Q.....	2,079,004
9A7R.....	1,987,925
WW4R (N4ZZ).....	1,810,284
KK9A.....	1,696,442
US5I (US5IO).....	1,546,360
S59AKR (S52X).....	1,538,537
WV6I (N6WM).....	1,496,302
LN9Z (LB1G).....	1,465,568
DR10TCC (DK3DM).....	1,463,924

7 MHz

S53M (S51FB).....	4,715,540
I4IKW.....	4,258,738
HF4K (SP4K).....	3,831,264
GM3SEK.....	2,763,834
AE5AA (N5ZM).....	2,675,616
Y71VP.....	2,648,268
RL4R (RW4PL).....	2,351,076
UN1L.....	2,133,330
K9OM/4.....	1,986,600
ES5RY.....	1,752,184

3.5 MHz

9A1CCY (9A3NM).....	2,486,304
I4AVG.....	2,007,880
EM0X (UT2XQ).....	1,762,992
DL4MCF.....	1,530,780
OY3JE.....	1,269,884
IZ0KBR.....	1,239,840
YU7AU.....	1,028,700
ES5GP.....	899,640
DJ3IW.....	800,808
SP6AXW.....	469,780

SINGLE OPERATOR LOW POWER ALL BAND

*PJ4R (N4RR).....	5,412,550
*ZX2B (PY2MNL).....	4,569,532
*VA2UP.....	4,134,200
*CT1ILT.....	4,130,634
*WE4M.....	3,325,880
*PJ2T (W8AV).....	3,119,200
*E76C.....	2,848,230
*ZC4LI.....	2,758,800
*K9NR.....	2,288,387
*YT2T.....	2,245,698

28 MHz

*JF1RYU.....	3,939
*JH6WHN.....	2,370
*PU5AAD.....	1,160
*YU2A.....	510
*F6IRG.....	72
*J3FLA.....	33

21 MHz

*CT3KY.....	1,372,624
*6W2SC.....	1,235,433
*YV1FM.....	1,037,848
*UP6P (UN6P).....	797,406
*UN9GD.....	723,151
*EA7ISH.....	658,530

*RN0SS.....	652,632
*RV0AL.....	597,276
*XE3N.....	504,738
*RU0ANW.....	504,612

14 MHz

*VX6WQ (VE6WQ).....	1,087,788
*AK0A.....	989,280
*G2YL.....	619,887
*HA7TM.....	586,592
*RV9CP.....	570,741
*W4LC.....	542,841
*WMSDX.....	471,090
*CT1EEK.....	413,118
*YU8NU.....	404,044
*EA4DB.....	377,865

7 MHz

*IQ3UD (IW3SQY).....	2,231,138
*E79D.....	1,571,570
*UR7TZ.....	1,303,736
*OK2RU.....	1,168,172
*EC5CSW.....	1,114,876
*IK5AMB.....	944,680
*EU1AZ.....	836,944
*MOVAA.....	818,244
*SP3VSE.....	806,474
*YW5RY (VY5KAJ).....	798,984

3.5 MHz

*IV3YIM.....	1,085,466
*EU8RZ.....	915,496
*IQ8RB/1 (IK1DFH).....	644,328
*YU7YZ.....	617,382
*OM5TX.....	610,000
*SP40EY.....	549,626
*UT5KO.....	502,680
*UZ2HZ.....	472,610
*YL2GGG.....	405,594
*US0GH.....	388,096

MULTI-OPERATOR SINGLE TRANSMITTER ALL BAND

EE8E.....	14,208,960
E73M.....	8,044,411
P41YL.....	7,904,256
RK9CWA.....	7,431,585
I21LGB.....	6,678,000
TM4P.....	5,973,708
DD1LD.....	5,712,470
YT0A.....	5,692,866
9A5D.....	5,396,653
SX1L.....	5,254,535

MULTI-OPERATOR TWO TRANSMITTER ALL BAND

4O3A.....	14,493,792
Z37M.....	12,047,140
RW0A.....	9,293,220
OH6R.....	8,923,150
EA8URL.....	8,419,428
DL0CS.....	7,709,998
LY2W.....	6,204,716
E7FR.....	5,907,094
KF4QOY.....	2,718,232
JA6ZPR.....	2,225,862

MULTI-OPERATOR MULTI-TRANSMITTER ALL BAND

HG1S.....	14,452,038
LZ9W.....	8,702,370
K44RRU.....	6,617,322
VE7UF.....	5,221,755
DL3VTA.....	4,398,732
J38XX.....	142,428

UNITED STATES SINGLE OPERATOR HIGH POWER ALL BAND

K4GMH.....	7,876,920
K3MM.....	6,158,748
AA3B.....	5,167,272
K15FA (@K1TTT).....	4,749,976
N2WK.....	4,412,529
K4RO.....	3,766,375
W3FV.....	3,617,046
W3MF.....	3,570,750
WB9Z.....	3,562,221
W4PK.....	3,474,838

21 MHz

KK500.....	1,146,036
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K4FJ.....	977,040
W06O (N6ML).....	763,758
W7ZR.....	376,336
KE9I.....	270,884
KK8X.....	218,290
N7BV.....	196,980
WBWEJ.....	27,040
W7MRC (NG7Z).....	17,353
WK4Y.....	5,712

14 MHz

WW4R (N4ZZ).....	1,810,284
KK9A.....	1,696,442
WV6I (N6WM).....	1,496,302
AA5AU.....	1,438,686
W04O.....	1,160,460
KK700 (KL700).....	1,043,385
KZ7X.....	985,395
N7NM.....	730,800
NG6S (W4UAT).....	574,892
K4SKB.....	151,840

7 MHz

AE5AA (N5ZM).....	2,675,616
K9OM/4.....	1,986,600
W1TY/2.....	1,343,626
K7WP.....	765,706
NM6K (K6AW).....	627,216
AE1P.....	425,896
W4CU.....	390,724
AA4VV.....	313,196
W0BR/3.....	136,416
Al6O.....	62,040

3.5 MHz

K0PK.....	146,610
K4WV.....	81,972
W6AEA/7.....	77,832
W7PP/8.....	72,628
N2EIK.....	33,276
N6MA/7.....	2,752

SINGLE OPERATOR LOW POWER ALL BAND

*WE4M.....	3,325,880
*K9NR.....	2,288,887
*N9CK.....	1,620,729
*NT0F.....	1,331,408
*NV2G (N2ZN).....	1,162,974
*N4IG.....	1,135,464
*K8AJU.....	1,035,120
*N2FJ.....	839,375
*K2DSL.....	817,430
*K7RE/0.....	813,093

21 MHz

*K8IA/7.....	144,957
*NW1C.....	40,796
*KC8ZTJ.....	24,823
*KX7L.....	5,994
*NSUWY.....	5,700
*KF0IQ.....	3,680

14 MHz

*AK0A.....	989,280
*W4LC.....	542,841
*WMSDX.....	471,090
*W1ZD/7.....	211,104
*KM6Z.....	199,584
*W9LY.....	167,760
*N7DB.....	104,854
*N2ZAK.....	100,200
*KC1UX.....	74,909
*K4FPF.....	42,182

7 MHz

*KC4HW.....	692,040
*AB1J.....	415,872
*KK1X.....	334,536
*K2PO/7 (K2PO/7).....	275,850
*N7TSS (K6UFO).....	177,408
*K2PAL.....	134,460
*N3TG/4.....	61,500
*KE0L.....	45,540
*WA7BME.....	8,000
*KM6I.....	6,160

3.5 MHz

*W1CSM.....	2,916
*K7MH.....	1,998

MULTI-OPERATOR SINGLE TRANSMITTER ALL BAND

WW4LL.....	4,941,016
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NA0CW.....	4,414,410
NC4CS.....	3,507,400
N4CW.....	2,654,334
KT1I.....	1,935,744
WY7SS.....	1,137,955
NR5M.....	1,005,648
WX5S/6.....	914,081
WX7P.....	776,662
KU0K.....	658,026

MULTI-OPERATOR TWO TRANSMITTER ALL BAND

KF4QOY.....	2,718,232
N2BJ/9.....	2,118,714
W0IW.....	1,820,880
NK7U.....	554,382

MULTI-OPERATOR MULTI-TRANSMITTER ALL BAND

K44RRU.....	6,617,322
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EUROPE SINGLE OPERATOR HIGH POWER ALL BAND

LZ8E (LZ2BE).....	7,547,400
S50A (S50XX).....	6,294,750
RD3AF.....	5,348,200
E05M (UR0MC).....	5,198,842
RA3CM.....	5,093,424
S080M (S09UM).....	4,793,256
UW8I (UT2IZ).....	4,729,140
RG3K (UA30DX).....	4,035,339
YO9HP.....	3,979,212
LY9Y.....	3,925,884

28 MHz

RU6CO.....	12,012
IK3ASM.....	420

21 MHz

9A5W.....	1,515,220
UX0FF.....	1,208,832
UW1M (UR5MW).....	1,066,418
OH7MJU.....	821,328
RA3SI.....	608,300
UA6CE.....	592,074
YO2RR.....	380,952
EA1ACP.....	351,553
CT4NH.....	266,532
DL3BOA.....	247,234

14 MHz

SN7Q.....	2,079,004
9A7R.....	1,987,925
US5I (US5IO).....	1,546,360
S59AKR (S52X).....	1,538,537
LN9Z (LB1G).....	1,465,568
DR10TCC (DK3DM).....	1,463,924
IK6VXO.....	1,352,754
OK8YD.....	1,264,304
DF9ZP.....	1,246,278
OK3C (OK2ZC).....	1,155,544

7 MHz

S53M (S51FB).....	4,715,540
I4IKW.....	4,258,738
HF4K (SP4K).....	3,831,264
GM3SEK.....	2,763,834
Y71VP.....	2,648,268
RL4R (RW4PL).....	2,351,076
ES5RY.....	1,752,184
YU7AU.....	1,028,700
AN1A (EA1AST).....	1,697,610
IW1PNJ.....	1,445,598
DL6JZ.....	1,435,980

3.5 MHz

9A1CCY (9A3NM).....	2,486,304
I4AVG.....	2,007,880
EM0X (UT2XQ).....	1,762,992
DL4MCF.....	1,530,780
N53JE.....	1,269,884
IZ0KBR.....	1,239,840
YU7AU.....	1,028,700
ES5GP.....	899,640
DJ3IW.....	800,808
SP6AXW.....	469,780

SINGLE OPERATOR LOW POWER ALL BAND

*CT1ILT.....	4,130,634
*E76C.....	2,848,230
*YT2T.....	2,245,698
*LZ9R (LZ3ZY).....	2,118,202

*SN2I (SP2EWO).....	2,103,232
*HA8BE.....	2,093,364
*I2ZFOS.....	2,025,540
*OEZGEN.....	2,021,760
*S56A.....	1,829,016
*G0MTN.....	1,794,121

28 MHz

*YU2A.....	510
*F6IRG.....	72

21 MHz

*EA

CLUB COMPETITION

UNITED STATES

Club	# Entrants	Score
POTOMAC VALLEY RADIO CLUB	39	35,718,790
NORTHERN CALIFORNIA CONTEST CLUB	43	33,803,738
SOCIETY OF MIDWEST CONTESTERS	26	26,432,326
FRANKFORD RADIO CLUB	11	17,404,367
TENNESSEE CONTEST GROUP	24	16,290,745
YANKEE CLIPPER CONTEST CLUB	23	15,490,833
ALABAMA CONTEST GROUP	10	9,292,398
GRAND MESA CONTESTERS OF COLORADO	10	8,881,396
ROCHESTER (NY) DX ASSN	7	7,575,128
FLORIDA CONTEST GROUP	11	7,374,597
MINNESOTA WIRELESS ASSN	20	6,027,121
WILLAMETTE VALLEY DX CLUB	9	5,285,361
CENTRAL TEXAS DX AND CONTEST CLUB	7	4,692,494
CTRI CONTEST GROUP	7	4,482,227
MAD RIVER RADIO CLUB	8	3,877,614
ORDER OF BOILED OWLS OF NEW YORK	6	3,646,360
ARIZONA OUTLAWS CONTEST CLUB	17	3,637,528
SOUTH EAST CONTEST CLUB	8	3,377,246
BERGEN ARA	3	3,070,516
SOUTHERN CALIFORNIA CONTEST CLUB	8	2,192,372
LOUISIANA CONTEST CLUB	3	1,675,391
UTAH DX ASSOCIATION	5	1,597,762
WESTERN NEW YORK DX ASSOCIATION	3	1,499,401
WESTERN WASHINGTON DX CLUB	10	1,386,285
KANSAS CITY DX CLUB	4	1,140,540
SKYVIEW RADIO SOCIETY	3	1,057,531
SPOKANE DX ASSOCIATION	5	1,055,271
KENTUCKY CONTEST GROUP	5	829,220
HUDSON VALLEY CONTESTERS AND DXERS	3	637,091
DELAWARE LEHIGH AMATEUR RADIO CLUB	4	632,255
METRO DX CLUB	5	601,429
NORTH COAST CONTESTERS	3	561,520
PADUCAH AMATEUR RADIO ASSOCIATION	3	419,528
CAROLINA DX ASSOCIATION	3	151,356

DX

BAVARIAN CONTEST CLUB	71	59,021,480
UKRAINIAN CONTEST CLUB	38	41,277,364
RHEIN RUHR DX ASSOCIATION	55	34,017,983
SLOVENIA CONTEST CLUB	10	18,770,755
CONTEST CLUB FINLAND	8	15,703,811
URAL CONTEST GROUP	10	13,551,638
BLACK SEA CONTEST CLUB	27	12,600,778
CROATIAN CONTEST CLUB	9	12,162,763
BOSNIA AND HERZEGOVINA CONTEST CLUB	5	11,697,421
CONTEST CLUB ONTARIO	18	10,568,671
YU CONTEST CLUB	7	10,363,751
CONTEST GROUP DU QUEBEC	7	9,932,123
RUSSIAN CONTEST CLUB	7	9,766,394
LU CONTEST GROUP	11	8,714,837
YO DX CLUB	16	8,175,063
BRITISH COLUMBIA DX CLUB	6	7,776,871
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	4	7,534,508
GMDX GROUP	5	7,289,616
LATVIAN CONTEST CLUB	8	6,870,601
SOUTH URAL CONTEST CLUB	5	6,811,379
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	3	6,676,759
DL-DX RTTY CONTEST GROUP	13	6,637,615
NONE	20	6,585,010
ARAUCARIA DX GROUP	7	6,205,430
CT3 MADEIRA CONTEST TEAM	3	4,978,292
YAROSLAVL CONTEST CLUB	3	4,518,853
BRITISH AMATEUR RADIO TELEDATA GROUP	3	4,394,807
599 CONTEST CLUB	6	4,362,543
WORLD WIDE YOUNG CONTESTERS	9	4,103,575
SP DX CLUB	14	3,745,558
RTTY CONTESTERS OF JAPAN	7	3,567,600
LA CONTEST CLUB	3	2,862,876
CHILTERN DX CLUB	4	2,619,745
BELARUS CONTEST CLUB	4	2,314,813
KKKK CONTEST CLUB KRASNODARSKOGO KRAYA	5	1,994,274
CSM BAIA MARE	4	1,719,399
CENTRAL SIBERIA DX CLUB	3	1,434,889
VU CONTEST GROUP	4	1,413,160
TEMIRTAU CONTEST CLUB	5	1,355,450
VK CONTEST CLUB	4	1,303,096
TULA RADIO CLUB	3	1,185,213
RIO DX GROUP	6	958,661
TOP OF EUROPE CONTESTERS	3	877,685
PLIS PLAII CONTEST TEAM	3	855,872
RU-QRP CLUB	3	695,595
HAROS RADIO CLUB	4	361,481
NORFOLK AMATEUR RADIO CLUB	4	347,594
CANTAREIRA DX GROUP	4	202,432
ALRS ST PETERSBURG	3	116,237
BEIJING SUNNY HAM CLUB	4	17,360

compares the club name in your log to the CQ contest club name list and ignores any that do not match exactly. It is easy to add a club name to the list following the instructions on the club names web page.

Log Checking

Besides being a lot of fun, contesting improves operating skills. Today's log-checking technology provides insightful analysis. Log Check Reports (LCRs) are available on request from <w0yk@cqwpxrty.com> and describe the detail of all the errors found in your log. A theoretical but unrealistic goal is zero errors. For one thing, the other station can make a mistake, such as inadvertently erasing your QSO from his log, or sending a different serial number than what he recorded in his log. These errors by the other station will cause you to lose the QSO credit and perhaps incur a NIL (Not In Log) penalty. Another consideration is operating very slowly and meticulously to avoid errors, but actually decreasing the potential score by working less stations. With the current state of log checking, an error rate less than 4% is good, and if it is less than 2%, one might wonder if too much time is being spent on accuracy—e.g., long exchanges, repeats, etc. As a reference, this set of logs had an average of 1.5% NILs, 1.2% busted (incorrect) callsigns, and 1.8% busted serial numbers.

Some single operator logs had a seemingly high error rate in their LCR, but it was largely due to operating beyond the 30-hour limit. Some operated 36 hours, perhaps going by the CW/SSB WPX rules, while others just wanted to operate more. There is no penalty for this at all and it adds to contest activity. Any QSOs beyond 30 hours of operating (with breaks less than 60 minutes included as operating time) are used, actually needed, in the log checking, but not included in the score.

Results and Records

Thanks to Don, AA5AU, and Randy, K5ZD, there is now a searchable database (www.cqwpxrty.com/score_db.htm) of all results in the history of CQ WPX RTTY, as well as CW and SSB. It is easy to initiate a quick search for all the operations by a given callsign, or see the historical results of a country or region. This, in turn, provides a very rich and accurate set of records (www.cqwpxrty.com/records.htm) for all categories and any geographical area. The Statistics link brings up a graph of submitted logs since the beginning of CQ WPX, 16 years ago.

Also, for expanded QRM and a list of ops of multi stations for the 2010 contest, see the CQ website: <www.cq-amateur-radio.com>.

Acknowledgements

In addition to Don and Randy, there are many who work to support WPX RTTY. Mark, K6UFO, assists wherever help is needed, such as fixing logs for Cabrillo compliance, entering paper logs (there were three this year!), proofing rules and website edits, printing one-off certificates, etc. Gail, K2RED, at CQ edits and takes care of the details for this article. Mike, K4GMH, manages the sponsored plaque program, finding sponsors, collecting funds, producing the artwork, checking it twice (or more!), and ordering plaques all in a timely manner as soon as results are completed. Barry, W5GN, tackles the monumental job of producing hundreds of certificates and deciphering addresses in the Cabrillo headers to mail out all of them.



Juan, EA8CAC, Olli, EA4BQ, and Pekka, EA8AH, drove the EA8AH super-station under the callsign EE8E to dominate the MS class with 14.2M points, smashing the world record by 64%.



Jim, W4TMO, shown here, really enjoys operating MS RTTY with father-in-law Bert, N4CW, at Bert's North Carolina station.

Ken, K1EA, and Randy, K5ZD, expertly support the log-checking process. SWL log checking is performed by Dan, I1-12387, using special log-check software written by Marek, SP7DQR.

See everyone in the next CQ WPX RTTY on 12-13 February 2011.
73, Ed, W0YK

QRM

Nice to have some sunspots around! Thanks for another good contest. Hope to be back next year. ... **2E0BPP**. My second ever RTTY contest, my first international RTTY HF contest. I think I've got the bug! I look forward to beating my score in the next contest. Thanks G3LDI, Roger for all your help with N1MM. ... **2E0RKY**. First time in WPX RTTY. Surprized at the many stations. I did not work all the time. I was on vacation! ... **6V7V**. I was able to enjoy this contest. Tnx for a fine contest again. ... **7N2UQC**. First major contest flying solo. First 15 meter opening, including 7 JAs in a row. Why didn't someone tell me how much fun this is? ... **AA4YL**. Best condx for a WPX RTTY contest in several years. Welcome back sunspots! ... **AA5AU**. I had a blast in this contest. The improved solar conditions made for a great time on 15 meters. As a little gun station, I'll take whatever solar help I can get. There were lots of new callsigns, both foreign and domestic, making their way into the log during this contest. No contacts were made on 10 meters. Let's hope for more sunspots and a higher solar flux as the year goes on. ... **AE5PW**. First I want to say many thanks to my friend Jim (W7EJ) for inviting me, giving me the opportunity to work the contest from his very nice Moroccan station. Many thanks to all the stations I worked during these days. ... **CN2R**. This time it was very hard! Due to a cyclone in my zone a few days before the Christmas day, I lost all my antenna system. So for this test I made a homemade dipole for 14 MHz and TX with only 80W. You can imagine! Anyway, I enjoyed all the numbers exchanged! ... **CT1EEK**. What a contest. This was my first "serious" RTTY contest attempt! Running a K3 and a IC-746PRO in a SO2R setup with Writelog was big fun. I am surprised what can be done in RTTY with just 100 watts. And due to low power operation no BCI/TVI complaints from neighbors. ... **DK5WL**. The contest took place in the middle of the very busy summer season in Antarctica, so my time to participate was rather limited. I enjoyed good propagation to North America on 20m, and managed to work a few new RTTY countries to finish my DXCC from Antarctica. The location is Neumayer Station III in Dronning Maud Land, grid locator IB59UH. ... **DP1POL**. A bit more propagation on Sunday than Saturday, but I spent good hours in this contest. ... **EE5J**. My sixth RTTY WPX Contest and the best. Good conditions on 80m to 15m. I hope that the propagation will continue to improve. I tried 10m from time to time, but nobody, nobody. Thanks to all who worked me. ... **F5RD**. I'd almost forgotten how fun 15m can be! ... **G0MTN**. A much better event than last year. Sad there was no 10m opening, but we did try the band. Very enjoyable as ever and shows what can be done with a little pistol station. ... **G6BOX**. First time on this mode in 21 years of hamming! So quite a fun introduction! ... **G7DDN**. Thanks to everyone for the QSOs, especially the wonderful run of W/VE stations on Saturday evening (your time). But above all, thanks to all the spouses, partners, and cheerleaders who allowed us to enjoy a RTTY contest on Valentine's Day! ... **GM3SEK**. Without any earlier experience I tried the mode and I am satisfied with the result. Many thanks for the contacts! Rig TS-530SP 25W, ant end-fed wire 21 mtrs long above flat roof. ... **HA2MN**. Great fun with my R7 vertical, 400W, and TS2000X. I improved my last year score by a 30% and I hope next year to do much better hoping for a good 10 meter opening. ... **IK2SAI**. It was a contest that was able to be enjoyed by all bands this time. This is because "sunspot number" coming up. ... **JA1BWA**. I was able to work more stations than I thought thanks to good propagation for Europe on 15 meter band. Thanks to those who called me. See you again next year. ... **JA6DIJ**. My first RTTY WPX. 80m DX conditions were not the best, but a fair opening to EU on Saturday night made things more interesting. Fun contest! ... **K0PK**. What a blast! This is one fun contest! Like last year, the computer decided to mess me up. Spent two hours troubleshooting an audio problem, but I still bested my last year's score by 156 Q's and 166,212 points! Thanks CQ for a fun weekend! ... **KA1C**. The XYL got her ticket after more than two decades of marriage and now wants to contest. I Love It! ... **KC4WQ**. What a difference a few sunspots make. Moved up to 15 meters and had great luck with DX contacts. If I could hear them I could usually work them.

Not bad for an attic antenna, 75 watts, and parttime operating. ... **KF0IQ**. It was interesting to work single-band (40m) in a contest and try to make a valid go of it. Watching live scoring made an additional motivation. Also my first contest as a part of YCCC made me work for the team a little harder. ... **KK1X**. It was nice to have some propagation for a change, but the window to Europe was fairly short up here in the Pacific Northwest. Backup station and antennas worked well, but should have the whole shooting match for upcoming contests, finally! Thanks to all those guys who jumped in giving out contacts. I had a blast! ... **KK7OO**. What a rollercoaster ride of RTTY fun! Had some great propagation on 15 meters, some challenging propagation to Europe on 20 meters, some exciting contacts on 40 meters, all mixing together for an awesome RTTY weekend. My best score yet! Thanks for the contacts and to CQ for sponsoring the biggest fun RTTY weekend of the year. The bands were bursting with RTTY signals, wow! ... **KL8DX**. Decided to work on my 15m DXCC and have some fun. High point was working 6W2SC for a new one. Go Sunspots! ... **KX7L**. Brilliant fun. Great having 15m open in such good shape. ... **MM0GPZ**. Murphy lives in my shack. ... **N2EIK**. Some nice DX found during the contest, always a bonus. Thanks to all the guys and gals who heard my 100 watts and apologies to the guy I left on 80m mid QSO when the rig finally died on that band. The real plus was to be, once again, in a contest with the SFI above 90. FANTASTIC! ... **N2FF**. Tried to fight off a cold with Nyquil. Should have fought off the Nyquil. Got lots of sleep in between short bouts of operating. ... **N6DW**. Our first effort as a multi-operator in this contest. Had a ball despite a rare six inch snowfall the first night. With fairly decent band conditions we managed over 1800 QSOs and hope to do better next year. ... **NC4CS**. Very nice moment spent with RTTY friends but a big power crash in the computer killed my end of the contest! ... **ON5SV**. Very nice contest after doing the PACC Dutch contest. ... **PE2KP**. Our first RTTY contest! ... **RM3M**. Wow! The upcoming sunspot cycle looks promising. 15m was a real blast with good openings both to JA and W. Can't wait for it to get even better. This was my 4th RTTY contest ever. Much fun! 99% run and just a few QSOs S&P. Thanks to everyone for calling! ... **SM6U**. Goodbye spotless days, welcome Solar Cycle 24! ... **SV1BDO**. Very good contest and very good propagation. 73s ... **TA7KA**. Over 300 Europeans just on 40 meters! Tks to VU2LBW for calling in on 15 meters! ... **VA3DX**. Work gets in the way again. I will have to retire soon so I can contest without interruptions! ... **VA3PC**. Murphy's Law: The more you practice and prepare before the contest the more likely it is that something will screw up when the contest starts. ... **VE5RI**. Great to see growing RTTY activity spreading so widely across the formerly quiet bands. Welcome back sunspots! Thanks to all who pointed to VK! ... **VK3TDX**. This was my first RTTY contest and I couldn't spend a lot of time on air as it was my birthday and Valentine's Day! Still I enjoyed operating mainly on 15m and 40m. Can't wait to do a serious effort in this contest next year to give lots of people the VK8 prefix. ... **VK8PDX**. Some of the biggest signals ever from North America were heard on 15m. This is very heartening and shows promise for the upcoming contest season. Even 10m showed some life to EU and Africa. I was running between 100 watts to 200 watts depending on mains power availability. ... **VU2PTT**. QRP operation using standalone NUE-PSK modem. Worked beyond my expectations! ... **VX3CW**. Great contest. Conditions were better on the first day. First time I've been able to get a run going on 15 meters. Good to see a lot of new contesters. ... **W0EM**. This contesting thing can really get under your skin My second contest in almost 40 years. What great fun. I am looking forward to many more. ... **W7JDE**. Wow! 15 was OPEN. Even made some Q's on 10! ... **WA9IVH**. Great to see 10 meters open for this year's contest. Let's hope the Sun gods continue the trend and keep things rockin'. ... **WB8JUI**. First contest for father and son team. We had a lot of fun and enjoyed 15 meter opening. ... **XE2AUD**. Was glad to run my first CQ WPX RTTY contest after three decades of classic RTTY traffic! Enjoyed the excellent TTY facilities of the IC-7000 and MMTTY combination. ... **YO2IS**. Poor condx into NA here! PACC Contest put out many RTTY active PA stations. ... **YU7AU**. A casual entry this year. Still learning how to drive N1MM and MMTTY. Spent quite a bit of time hunting the WWW in vain for suitable message files to import into N1MM (seems I will have to publish mine!). Apologies for messing up the odd exchange. N1MM's Enter-Sends-Message mode is particular about getting the right info entered in the right sequence, but my fingers don't always play ball. Took several breaks to feed an orphan lamb rescued from the forest on Sunday. Such is the life of a ZL contestant. ... **ZM4G**.

Number groups after call letters denote following: Band (A = all), Final Score, Number of OSOs, and Prefixes. An asterisk (*) before a call indicates low power. Certificate winners are listed in bold-face. (Note that the country names and groupings reflect the DXCC list at the time of the contest.)

**2010 WPX RTTY RESULTS
SINGLE OPERATOR
NORTH AMERICA**

United States		(Op: 6K1TTT)	
K1SFA	A	4,749,976	1835 701
WE1H	*	2,138,314	1246 586
W1BV	*	2,075,409	1225 553
W1AN	*	1,766,430	1101 570
AK1W	*	1,765,500	1003 535
			(Op: KSZD)
NG1G	*	1,610,892	1071 522
K0DU/L	*	1,464,242	1271 566
W1BH/V	*	1,152,270	850 465
W1ZK	*	909,410	720 422
W1EQ	*	745,953	714 403
K3IU/L	*	671,825	642 385
A1T1	*	512,259	541 361
WE1O	*	498,764	475 329
NA1OP	*	262,548	353 234
			(Op: W1CTN)
K1LZ	*	115,050	235 177
K0GKP/1	*	96,368	233 152
KE1FO	*	88,128	182 153
N1SXL	*	73,576	170 136
WA1Z	*	31,648	98 86
K1GE	*	14,700	77 70
KN6OP/1	*	3,720	33 31
W1UJ	*	385	11 11
AE1P	7	425,896	398 278
*KA1C	A	517,632	621 337
*N1JH	*	442,294	492 281
*W1FA	*	310,329	400 261
*N8WXQ/1	*	266,240	406 260
*W1YO7ARY	*	158,340	321 210
*KF1D	*	150,144	306 204
*W1MAW	*	147,804	356 218
*KA1COR	*	88,796	187 158
*N1AO	*	60,858	161 138
*W0TN	*	29,164	113 92
*W2JUI/1	*	26,400	126 100
*WA1ZYX	*	24,192	100 84
*W1MJ	*	21,504	113 84
*W1MIG	*	16,356	110 87
*N1UZ	*	14,421	83 69
*K1JJ	*	13,260	85 78
*W1HG	*	8,160	70 60
*K1YGH	*	5,246	43 43
*K1YX/1	*	3,311	52 43
*K2RS/1	*	684	18 18
*N1WC	21	40,796	143 124
*K1LUX	14	74,909	221 173
*AB1J	7	415,872	419 288
*K1IX	*	334,536	391 263
*W1CSM	3.5	2,916	33 27
N2WK	A	4,412,529	1821 747
KF2O	*	2,325,036	1204 622
NO2T	*	2,011,746	1249 561
KA2D	*	1,645,788	1002 534
WA2ZTU	*	1,279,632	968 503
AA2NA	*	715,500	709 375
W2LE	*	385,956	467 302
K2MK	*	327,510	421 270
K2NV	*	202,894	321 229
WB2JEP	*	94,227	195 147
NG2P	*	93,312	209 162
NJ1F2	*	53,926	149 118
W2RZS	*	44,625	156 125
			(Op: WB2NVR)
W2JUC	14	7,260	58 55
W1TY2	7	1,343,626	774 463
N2EIK	3.5	33,276	147 94
*NV2G	A	1,162,974	907 478
			(Op: N2ZN)
*N2FF	*	839,375	678 425
*K2DSL	*	817,430	839 500
*A19P/2	*	591,280	649 380
			(Op: N2NF)
*N2CU	*	581,007	571 379
*NA2M	*	433,950	445 330
*K2ONP	*	428,120	474 308
*N2YBB	*	427,194	486 293
*K2YG	*	359,073	453 279
*K2SJ	*	334,554	452 274
*WA2LXE	*	241,340	414 220
*N2MIUN	*	233,748	390 253
*KD2MX	*	224,895	390 235
*K2UF	*	206,064	345 212
*KB2NB	*	200,265	317 237
*WA2MCR	*	175,695	313 221
*K2DB	*	145,299	262 187
*K2DAR	*	108,834	220 187
*W2SXJ	*	82,834	221 166
*W2MXL	*	62,546	196 143
*KS2S	*	66,305	205 149
*N2CO	*	60,632	172 143
*AD2TM	*	49,764	167 132
*KA2FHN	*	44,526	153 123
*WA2NLL	*	40,626	135 122
*KB2ESY	*	37,932	141 116
*WB2TPS	*	29,760	104 93
*ND2Z	*	28,296	137 108
*KS2Z	*	25,474	114 94
*KB2HSH	*	14,212	85 76
*N2NOM	*	14,140	91 70
*WV2ZOW	*	13,082	74 62
*KR2D	*	8,294	61 58
*WB2RIS	*	1,150	24 23
*N2ZAK	14	100,200	269 200
*K2PAL	7	134,460	224 166
K3MM	A	6,158,748	2361 771
AA3B	*	5,167,272	2087 759
W3VF	*	3,617,046	1606 666
W3MF	*	3,570,750	1649 690
K03F	*	1,688,084	1044 508

K3WW	*	1,444,480	966 488
WB3FZ	*	797,397	664 393
K3RWN	*	743,785	758 395
K3MD	*	417,600	476 320
N3NJ	*	392,370	489 319
N3XL	*	291,192	419 264
K3PU	*	280,078	402 262
KD3TB	*	199,080	357 237
W3DAD	*	128,516	254 178
NN3RP	*	115,400	302 200
K3PG	*	109,900	261 175
K3RMB	*	101,976	250 168
WA3AAN	*	76,860	179 140
N3MX	*	56,070	151 126
W3CX	*	24,138	96 81
A130	14	24,795	110 95
W0BR/3	7	136,416	222 174
*W1LWS/3	A	748,284	713 381
*W3DON	*	683,688	667 366
*KB3LIX	*	634,385	596 355
*NY3DX	*	335,514	399 281
			(Op: K3SV)
*W3BU	*	283,803	401 247
*AB3GY	*	211,770	311 234
*K3TW	*	201,798	364 222
			(Op: K1RY)
*N3OO	*	198,360	350 228
*N3CHX	*	184,128	354 224
*W4EE/3	*	164,615	327 205
*KB3KXX	*	140,118	266 193
*KN3A	*	122,952	254 188
*K3TN	*	77,404	195 148

WX4TM	*	982,128	887 444
K4CX	*	980,208	918 432
KR4F	*	696,384	601 403
N4VV	*	574,979	609 347
NJ4Y	*	504,510	488 335
KG4MGE	*	440,550	495 330
NJ4F	*	399,726	476 318
W7HJ/4	*	358,844	433 283
K4HAL	*	355,993	497 287
W4UK	*	333,494	535 287
N4QS	*	312,156	446 276
KC4SAW	*	297,550	379 275
W0YR/4	*	282,486	368 267
A4HVV	*	276,853	348 251
K4DLI	*	264,368	408 248
W2OO/4	*	234,588	316 226
K3K0/4	*	232,065	299 243
WC2Z/4	*	232,050	348 238
N4TL	*	219,880	317 230
N2WN/4	*	207,318	311 218
N4T1	*	187,320	318 223
K04XJ	*	170,345	367 217
NB4M	*	155,540	344 202
W4FW	*	154,660	318 220
K4EUI	*	146,703	264 237
W0BR/4	*	101,850	189 175
N3UA/4	*	99,981	213 161
K4SV	*	76,446	181 137
A4JFM	*	68,328	173 156
W4GHD	*	47,640	153 120
WD4HIM	*	44,254	122 109
K4CUY	*	43,585	139 115

*AB4SF	*	416,784	510 304
*NA4K	*	300,300	415 275
*KT6D/4	*	279,009	413 261
*W40TN	*	266,305	419 241
*WS9M/4	*	239,990	382 233
*AA4YL	*	196,650	326 230
*NA4AI	*	181,930	380 230
*KA4OD	*	179,208	300 228
*WBKHP/4	*	178,542	353 218
*K4MIL	*	163,815	253 201
*W0OOG/4	*	155,820	318 196
*WA4EEZ	*	153,252	227 198
*KM4JA	*	151,064	317 184
*KE4KY	*	150,176	307 208
*WB7ECS/4	*	114,896	218 172
*K4DSP	*	103,488	221 176
*KA4TEU	*	100,701	238 167
*ND4X	*	92,746	208 158
*AJ4CU	*	81,732	162 139
*W5NMZ/4	*	76,500	246 150
*KJ4JZW	*	67,592	199 136
*K04PU	*	66,582	225 137
*W4B	*	66,150	209 135
*W4BK	*	54,234	162 131
*K4EEY	*	46,440	157 120
*NA4C	*	45,815	160 119
*K5AS	*	45,030	178 114
*K4FT	*	35,672	136 98
*KN4Q	*	32,318	139 113
*KG4JGQ	*	26,260	114 101
*AE4O	*	23,940	124 95
*K4WNW	*	23,822	106 86

K5DU	A	2,696,343	1847 611
WA5ZUP	*	2,230,232	1756 596
K7IA/5	*	1,396,500	1236 523
NX5O	*	1,364,639	1190 505
W5K1	*	533,750	561 350
AC4CA/5	*	323,628	528 298
KD5JAA	*	275,233	357 287
KZ5J	*	209,100	374 246
K5N2	*	193,914	345 243
AA5VU	*	171,380	339 220
AB5C	*	134,830	299 194
K5HDU	*	121,260	295 188
W5AP	*	80,280	256 180
N5CN	*	49,432	198 148
NS5U	*	33,155	121 95
K5UO	*	22,274	98 86
KFE5HV	*	7,344	70 51
K5UB	*	3,192	53 42
KK5OQ	21	1,146,036	931 516
AA5AJW	14	4,438,686	1168 622
AE5AA	7	2,675,616	1169 593
			(Op: NS2M)
NS5WY	*	30,780	122 95
W5JAY	*	5,550	45 37
*AD5XD	A	724,928	895 376
*K5DD	*	253,440	437 240
*N5DRB	*	227,584	478 254
*AE5PW	*	218,868	433 244
*WB5AAA	*	203,550	371 230
*K5DJ	*	175,052	348 214
*AD5LU	*	171,810	431 207
*WB5TEQ	*	119,889	264 173
*N5THN	*	9	

N6KW7	*	28,160	132	88	*KA90	*	74,088	177	147	*VE3VID	*	480	15	15	RM9RZ	*	1,612,737	948	483	J01BVI	*	63,872	158	128
WR7Q	*	24,748	117	92	*W9VQ	*	51,968	159	128	*VE3RHD	1.4	58,588	168	151	UA9BS	*	1,070,784	625	396	JA1ZZ	*	53,845	157	121
W7ABC	*	18,700	107	85	*AK9F	*	48,037	158	121	*VE3GSI	3.5	96,768	196	126	RW9UW	*	844,176	698	344	JA1KEB	*	5,402	50	37
KV7DX	*	18,656	116	88	*N9EP	*	46,740	161	123						RK9UE	*	827,436	543	318	JA1HGY	*	90	5	5
KALL7	*	17,385	118	95	*N7GVW/9	*	39,785	127	106	VE4EAR	A	175,750	259	185	RA9AA	*	594,008	586	328	JN1RQV	21	22,707	95	87
KETFE7	*	49	6,000	49	*W9AKS	*	34,983	118	117	VE5MX	A	329,175	441	275	UA9OQJ	*	378,720	388	263	JN4WPF	*	21,250	99	85
KR7RK	*	5,616	37	36	*AE9A	*	33,000	142	125	*VESZJ	A	67,170	788	355	R9AUN	*	104,960	122	164	JF1PKJ	7	540,432	367	278
W7WHY	*	3,007	37	31	*AI9K	*	24,196	132	97	*VASELF	*	301,860	520	234	RZ9AR	*	34,968	129	93	*JP1ODH	A	737,856	660	78
W7ZR	21	376,336	553	344	*K9QH	*	22,761	98	81					R9RRR	21	424,080	499	330	*J01WKO	*	713,856	560	328	
N7BV	*	196,980	448	245	*WR9Y	*	20,540	99	79	VA6ZZZ	A	720,621	868	319	RZ9HT	14	1,419,894	989	531	*7N2UQC	*	416,208	521	276
W7MRC	*	17,353	99	67	*W09T	*	5,130	52	45	VX6AO	*	427,558	634	313	R9VWP	*	377,971	441	313	*JG1GGU	*	377,844	607	276
KK700	14	1,043,385	1079	523	*AF9J	*	4,747	58	47	VE6RRD	*	9,176	79	62	R9UCAC	*	127,095	246	185	*JA1FRO	*	154,980	263	180
KZ7X	*	985,395	981	537	*K9PM5	*	3,978	36	34	VE6SKY	14	3,696	44	42	RZ9UJ	*	10,089	71	59	*JA1BWA	*	153,340	277	170
N7NM	*	730,800	832	450	*K9PY	*	2,923	43	37	*VE6JUT	A	104,250	246	150	R99AX	7	77,795	129	109	*JA1Z	*	116,336	246	176
K7ABC	*	17,575	152	95	*W9LH	14	167,760	283	240	*VE6MT	A	56,070	194	126	*RA9SC	A	1,796,229	1060	465	*JA1RQT	*	85,813	207	161
K7WPF	7	765,706	640	349	*N9LX	7	2,940	30	30	*VX6WQ	14	1,087,788	969	494	*R9NAA/9	*	1,241,172	816	414	*JA1AZR	*	61,628	180	124
W6AEA/7	3.5	77,832	232	138	AB0RX	A	3,312,295	1773	707	VE7CF	A	642,147	733	363	*UA9AFS	*	1,033,134	782	409	*JA1IE	*	60,452	174	127
N6M4/7	*	2,752	39	32	K0FX	*	1,395,160	1110	520	VE7HBS	A	113,232	340	168	*RA9FX	*	660,341	652	347	*JJ1OFO	*	29,986	128	94
*N7E51	A	454,894	757	341	NOAT	*	1,389,588	1118	516	VE7HS	7	162,288	214	168	*RA9JJB	*	583,214	597	326	*K11NSR	*	15,408	81	72
*K7J7	*	585	331	444	K0JJR	*	624,764	728	310	*VE7K5	7	162,288	214	168	*RA9JN	*	391,389	437	283	*JA1CPT	*	12,180	68	60
*K7W7N	*	276,480	538	256	K0JJU	*	54,281	444	244	*VA7KO	*	795,750	736	375	*RA9JY	*	345,428	345	283	*JK1TTC	*	3,393	31	29
*K7V1T	*	249,198	547	264	W0TY	*	521,043	623	339	*VA7KM	*	512,262	725	398	*R4WAA/9	*	342,076	427	266	*K7J	*	3,069	33	30
*N7W5	*	215,172	343	258	K50AA	*	500,364	713	339	(Op: VA7AM)				*RA9HM	*	288,376	385	323	*JA1OHP	*	2,730	33	30	
*W7RV	*	211,692	402	236	A1P1Q	*	478,500	576	348	*VA7RY	*	422,712	502	309	*RA9HM	*	288,376	385	323	*JF1HJX	*	2,700	30	30
*K7XC	*	199,565	352	239	WN0L	*	443,325	555	345	*VX7BC	*	292,876	414	236	*UA9OAI	*	265,725	351	225	*7K3OZQ	*	954	20	18
*WA0WVVW/7	*	140,382	325	198	K0TG	*	342,790	551	295	(Op: VE7BC)				*R9ADZ/9	*	216,890	325	205	*JF1RYU	28	3,939	52	39	
*W7UJ	*	121,808	233	184	K10F	*	327,222	521	318	*VE7B5M	*	100,278	265	162	*RU9A/9	*	199,000	298	199	*J11ALP	21	78,343	189	157
*W7MKN	*	109,454	273	164	W0BN	*	316,317	503	291	*VA7F5T	*	65,512	178	136	*UA9OLO	*	54,544	142	112	*J11BN	*	5,760	49	45
*WE6Z/7	*	105,452	306	164	K4UJMHJ	*	315,600	393	300	*VA7H2	*	21,567	108	91	*UA9OZ	*	23,100	93	75	*J11UD	*	1,464	24	24
*K6UJ/7	*	105,300	299	180	W0EM	*	271,000	554	271	*VA7ALK	*	14,040	75	72	*R9VUB	*	11,820	70	60	*J11RK	*	1,007	21	19
*W4LSC/7	*	91,107	248	159	K0JPL	*	217,944	356	216					*R9W0C	*	3,321	29	27	*J11RKN	*	3	3	3	
*W7S5U	*	74,664	247	153	N0LEF	*	135,320	279	199					*RA9OZC	*	3,321	29	27	*JP1JFG	14	306,423	412	291	
*K9G9J/7	*	73,319	209	157	W19Q/0	*	96,222	294	158	*VX9NC	A	673,843	623	359	*UA9FV	21	186,313	313	211	*JG1IEF	*	100,988	230	181
*K7HBN	*	73,024	222	163	K6XT/0	*	96,048	222	174	*VX9HF	*	198,340	314	235	*RA9DZ	*	21,675	97	75	*JA1BFN	*	1,633	25	23
*K7EIQ	*	60,828	196	148	W0BH	*	58,800	241	147					*R9VCP	14	570,741	575	361	*JF1CCK	*	532	15	14	
*WA75HP	*	58,072	197	122	K0BX	*	55,944	157	126					*R9VGF	*	375,136	446	304	JA2FSM	A	726,510	648	366	
*AD7GJ	*	49,794	169	129	N0BK	*	53,218	154	118					*R9AWB	*	374,080	439	320	JR2VHO	*	418,389	444	267	
*AC7GP	*	49,005	163	121	K4UJ	*	52,465	113	240	COZEL	A	107,920	194	152	(Op: RA9JR)				JR2VMT	*	39,552	123	96	
*W7JDE	*	44,312	159	116	K80L	*	480	17	16	CO3CJ	A	31,500	126	105	*UA9W0B	*	164,866	975	421	JACUS	*	10,208	66	58
*N7F7	*	41,638	173	109	K0PK	3.5	146,610	325	181	*CO3JN	A	496,451	557	323	*RA9AZF	*	103,488	218	176	JM2RUJ	21	57,509	156	131
*K6KR/7	*	40,870	175	134	*K7RE/0	*	813,093	929	447	*CM3RPN	*	372,658	405	286	*RA9AX	*	29,200	110	100	JH2FK	*	34,917	118	103
*AD7MQ	*	33,060	164	114	*K0RC	*	793,875	768	435	*CO2J	*	82,467	175	147	RDDC	A	2,970,658	1490	607	JH2FX	*	31,300	117	100
*K6VVH/7	*	27,615	115	105	*N0BU1	*	377,280	596	320	*CO3CZ	*	19,040	82	68					JJ2PUG	7	14,586	59	51	
					*W05M	*	262,353	603	273	*CO3JD	7	139,500	227	155	UA0AGI	*	1,612,608	898	454	JA2YU	3.5	7,008	61	48
					*W05TL	*	242,820	424	284	UA0YAY	A	221,260	351	230	UA0YAY	*	1,298,308	926	418	*JA2XB	A	106,738	212	166
					*AB05	*	231,424	454	285	UA0YU	A	229,200	353	240	UA0YU	*	972,632	977	421	*JA2YK	*	93,016	205	151
					*W10O	*	196,554	391	246	RA0QC	A	215,157	215	157	RA0QC	*	751,640	753	480	*JL2CZ	*	47,456	147	121
					(Op: K0TT)					Grenada				UA0SR	*	694,624	682	392	*JA2GHP	*	66,548	160	127	
					*W0PC	*	159,327	334	189	UA0SBR	A	2,115,930	1237	502	UA0SBR	*	319,809	421	291	*JA2YH	*	59,985	169	129
					*KS0M	*	154,212	305	213	RU0DC	A	2,115,930	1237	502	RU0DC	*	297,076	448	250	*JH2MYN	*	6,768	53	47
					*W0GM	*	143,715	383	195	RU0LL	A	2,115,930	1237	502	RU0LL	*	281,000	403	250	*JA2VHG	*	6,280	52	40
					*W0ALM	*	133,168	311	203	UA0SP	A	2,115,930	1237	502	UA0SP	*	276,887	478	247	*JP2MRD	21	8,904	63	53
					*W0RRA	*	120,716	359	206	UA0ZAM	A	2,115,930	1237	502	UA0ZAM	*	20,748	118	78	*J2AAN/2	*	3,640	41	35
					*W0MJJ	*	112,175	298	172	UA0ZM	A	2,115,930	1237	502	UA0ZM	*	5,971	66	59	*JF2FUF	7	523,488	385	276
					*W0ALPV	*	104,357	262	179	RA0FU	A	2,115,930	1237	502	RA0FU	*	6,678	46	42	*JF2WLV	3.5	10,200	90	51
					*K0LDS	*	104,052	253	174	UA0BA	A	2,115,930	1237	502	UA0BA	*	36	3	JR3NZC	A	584,369	567	311	
					*N0EOP	*	99,712	300	164	UA0SW	28	13,860	109	63	UA0SW	*	13,860	109	63	JN3SAC	*	241,738	337	217
					*NX0J	*	85,332	274	156	RG0AW	14	478,380	533	335	RG0AW	*	478,380	533	335	JA3IKG	*	168,861	284	187
					*AC0E	*	59,860	215	140	UA0LMO	A	2,115,930	1237	502	UA0LMO	*	136,521	295	197	JR3UC	*	32,226	95	82
					*AB0Y9	*	56,980	213	146	RX0AT	3.5	258,020	252	190	RX0AT	*	258,020	252	190	JA3LEB	7	378,350	312	235
					*K0YU	*	56,420	217	140	*RA0ACN	A	863,070	756	390	*RA0ACN	*	687,360	756	390	JL3SBE	*	5,160	36	30
					*W0D0L	*	53,119	200	141	*R0D5R	A	863,070	756	390	*R0D5R	*	687,360	756	390	JH3CUL	A	538,160	536	310
					*K0AIE	*	48,840	198	120	*RA0PL	A	863,070	756	390	*RA0PL	*	534,206	536	289	JL3JM	*	12,620	256	160
					*K0DZ	*	46,648	173	119	*UA0CNX	A	863,070												

UZ0U	*	1,451,325	1013	523	VK3FM	*	112,793	220	149
UT6IS	*	717,232	651	368	*VK3VT	14	6,912	51	48
UW7LL	*	691,200	601	360	*VK4EJ	21	72,864	190	138
UR1HM	*	653,196	536	348	*VK5NPR	A	120,649	230	151
UR7EU	*	488,636	491	302	VK6HZ	A	125,307	228	189
UR4E1	*	294,060	392	260	VK7XX	A	17,155	81	73
UT8IO	*	292,775	344	239	*VK7AD	A	10,494	60	53
US0LW	*	189,056	297	211	*VK8PDX	A	92,880	203	135
UR4IOR	*	176,256	304	216					
US0YW	*	172,584	280	216					
UR5MBA	*	137,982	232	183					
UR0IM	*	100,928	189	152					
UT1HK	*	73,084	170	151					
UY5CO	*	38,456	110	92					
UR9QO	*	15,372	67	63					
UU2JO	*	9,342	59	54					
UT2UU	*	5,934	49	46					
US3IZ	*	1,804	24	22					
UX0FF	21	1,208,832	934	512					
UW1M	*	1,066,418	943	478					
UR2VA	*	67,095	193	135					
US51	14	1,546,360	1141	577					
UW5U	*	1,090,764	928	492					
E011	*	907,722	864	478					
UT2H	*	876,120	858	447					
UR5ZMK	*	221,696	390	256					
UY8LM	*	28,785	127	101					
UX8ZA	*	21,204	108	93					
UT3N	7	758,004	557	339					
UX5IO	*	654,376	485	314					
UR0IO	*	525,402	399	303					
UT0NT	*	5,400	36	36					
EM0X	3.5	1,762,992	883	477					
UX1TL	*	284,850	339	225					
UR7EQ	*	229,632	295	208					
*UY1HY	A	1,569,201	1005	489					
*UT5EPP	*	1,528,880	1037	464					
*UR0HQ	*	1,305,255	994	465					
*US0HZ	*	1,255,632	920	444					
*UX1UX	*	1,218,620	879	436					
*EN7U	*	1,155,727	849	461					
*UT8EL	*	1,007,676	841	414					
*US6IQ	*	996,990	778	398					
*UT2IO	*	990,702	819	414					
*UR8IDX	*	916,838	703	394					
*US6CO	*	900,984	755	372					
*UR8QR	*	805,896	679	364					
*UX6IB	*	639,324	575	354					
*UT4HZ	*	576,380	484	322					
*UY2UQ	*	561,816	549	324					
*US7HD	*	545,468	551	308					
*UT3RS	*	490,347	527	297					
*UR5ETN	*	483,081	464	283					
*US8UA	*	471,801	492	319					
*UT1IM	*	423,085	474	299					
*UT5CL	*	388,314	428	282					
*UT5ECZ	*	379,440	408	272					
*UT4XU	*	379,316	434	266					
*UY5TE	*	372,468	458	277					
*UY7C	*	347,319	426	259					
*UY7MM	*	341,278	450	266					
*UR7EW	*	332,856	420	268					
*UT8IM	*	311,577	395	259					
*US7IA	*	308,124	397	243					
*UX7IB	*	268,950	439	275					
*UX7FC	*	233,232	342	226					
*UR5AC	*	231,975	340	225					
*UT5FD	*	211,138	342	229					
*UT5ERV	*	191,992	276	206					
*UR5KED	*	186,308	272	188					
*UT7MR	*	178,396	293	206					
*UT5UKY	*	147,384	243	184					
*UU9JO	*	111,870	193	165					
*UU1K	*	97,767	192	153					
*UR5IHC	*	97,474	235	163					
*US8IBS	*	84,096	180	144					
*UR3QM	*	83,995	196	157					
*UT2QQ	*	75,338	192	139					
*UX0SX	*	73,272	193	142					
*UR5EIT	*	37,022	122	107					
*UT1UW	*	20,066	93	79					
*UR5IFB	*	12,350	75	65					
*USSZE	*	6,468	43	42					
*UT2AB	*	3,420	31	30					
*UR5XMM	*	1,872	26	24					
*UZ7HO	21	320,910	463	285					
*UT5PO	*	138,226	293	206					
*UX0UW	*	123,210	263	185					
*UT4EK	14	126,896	290	206					
*US3QV	*	66,976	188	161					
*UT5PO	*	32,970	127	105					
*UR7QM	*	25,300	115	100					
*UT3FM	*	15,054	89	78					
*UR7TZ	7	1,303,736	709	434					
*US0MM	*	768,812	521	346					
*US0KS	*	612,468	464	321					
*UT4XD	*	550,800	460	300					
*UT5ERP	*	381,810	351	267					
*UT5KL	*	336,600	320	255					
*UR5LD	*	39	5	38					
*UT5KO	3.5	502,680	448	295					
*UZ2HZ	*	472,610	440	283					
*US0GH	*	388,096	386	256					
*US0ZZ	*	329,022	349	243					
*UR8MB	*	175,750	256	185					
*UZ7U	*	9,800	51	49					

G850ATG	A	3,180,485	1436	605	*PJ4R	A	5,412,550	1970	650
MW2I	*	828,837	739	393	*PJ2T	*	3,119,020	1384	563
GW4BLE	*	168,535	306	185					
*MW0CRI	21	194,400	324	240					
OCEANIA									
*VK2ACC	A	7,990	56	47					
VK3TDX	A	964,260	750	396					

Venezuela									
4M5IR	A	2,320,058	1186	493					
YW5T	7	297,606	260	193					
YW4V	*	122,544	153	138					
*YV5LI	A	421,596	416	252					
*YV1FM	21	1,037,848	818	431					
*YV4BCD	14	16,117	79	71					
*YV5RY	7	798,984	453	324					
MULTI-OPERATOR SINGLE TRANSMITTER NORTH AMERICA									
United States									
WW4LL		4,941,016	2089	773					
NA0CW		4,414,410	2045	770					
NC4CS		3,507,400	1761	710					
NA4CW		2,654,334	1405	617					
KT11		1,935,744	1361	568					
WY7SS		1,137,955	1325	455					
NR5M		1,005,648	873	438					
WX5S/6		914,081	897	469					
WX7P		776,662	947	431					
KU0K		658,026	830	417					
K9SG		557,040	581	330					
W7VXS		394,142	608	329					
WB5SKP/4		425,342	429	234					
KE3QA		95,284	222	166					
KC4WQ		68,034	193	138					
Alaska									
KL2R		200,790	372	230					
Belize									
V31MU		2,003,967	1299	483					
V31GW		290,604	417	244					
Canada									
VG7G		603,936	752	324					
VE7NSR		102,432	291	176					
Mexico									
XE2AUD		425,980	600	295					
Puerto Rico									
WP4WW		309,985	428	247					
AFRICA									
Canary Islands									
EE8E		14,208,960	3467	960					
ASIA									
Asiatic Russia									
RK9CWA		7,431,585	2566	735					
RK9JWR		2,109,627	1274	507					
RK9KWI		709,374	670	382					
Japan									
JQ1YWK		3,480	31	29					
Kazakhstan									
UN8LWF		770,649	672	363					
TA7KA		4,271,220	1779	610					
TURKEY									
ON4ANL		780,624	664	351					
OR5EU		50,864	160	136					
Bosnia-Herzegovina									
E73M		8,044,411	2488	881					
Croatia									
9A5D		5,396,653	2175	757					
Czech Republic									
OK1KSL		356,460	405	260					
OZ7A		1,792,990	1032	530					
England									
G6BOX		965,844	734	396					
European Russia									
RK3MVI		2,985,310	1617	613					
RK4WVQ		2,122,848	1432	546					
RM3M		1,506,120	1068	489					
RK3DXW		641,344	613	352					
RZ3DZI		11,400	63	57					
Finland									
OF50RR		4,673,378	2095	734					
OH3I		3,874,360	1784	707					
OH2HAN		3,557,478	1672	673					
France									
TM4P		5,973,708	2164	771					
F5KFF		28,906	105	97					
Germany									
DD1LD		5,712,470	2041	739					
DK0EE		5,039,615	1846	763					
DF1LON		3,527,423	1483	657					
DM3DA		2,483,425	1281	575					
DR2N		2,109,800	1150	550					
DR2010L		1,420,716	918	458					
DK0ED		5,588	50	44					
DF0DG		1,520	20	20					
Greece									
SX1L		5,254,535							