

Results of the 2002 CQ WW DX CW Contest

BY BOB COX,* K3EST

Expanded CQ WW Contest Results on the Web

We've moved a few elements of our contest reporting onto the CQ website this year, including **Station Operators** of Multi-Op stations, **Top Scores in Very Active Zones**, and **Zone Leaders/Single Op**. In addition, we have expanded **QRM** on the web.

To view these additional and expanded elements of this year's CQ WW results, go to <<http://www.cq-amateur-radio.com/cqwwhome.html>>, then click on "Expanded results, 2002 CQ WW CW" and select the category you want to see. You may also get there by going to our home page at <<http://www.cq-amateur-radio.com>>, clicking on "Contest Rules & Info," then clicking on "CQ World Wide DX Contest" and selecting "Expanded Results, 2002 CQ WW CW."

With solar activity predicted not to cooperate for the full contest, the entrants of the 2002 CQ WW jumped into the fray. Bands that would have been mostly quiet on any other weekend suddenly came dramatically alive with activity. The old saying "the CQ WW makes its own propagation" rang true. New records were set and CW activity reached an all-time high. The effect of the solar activity did not discourage the contest fraternity.

When the last CW log arrived, a total of about 3800 logs had been received! That is a lot of "beep beep" contacts. Given the highly variable conditions throughout the world, the number of contesters taking to the airwaves to have fun and test out their stations points to contesting as being alive and well throughout the world.

Plenty of rare DX stations on the air for the contest made for many new countries for lots of contesters. Many contesters got into planes, cars, and boats and traveled to exotic places to hand out QSOs in the CQ WW. Those who stayed home—most of us—turned on the radio just before the contest to hear the exciting contest activity on all the bands. That special sound gets your adrenalin flowing and draws you in.

High Power

It was not too difficult to work the P4 multiplier. For the first time in the CQ WW, the top three scores were from the same country—Aruba. The guys must have had a good time before and after the contest meeting for dinners and drinks. If you ever were worried that more than one station from a location would hinder your chances, this year's results proved there were a lot of people working Aruba. The world's top place went to perennial heavy hitter Jose, CT1BOH, operating from P40E. Jose showed his skill by winning by more than 3 million points. Second place world went to Scott, K0DQ, who keyed P40Q to 11 million points. Third place went to John, W2GD, operating at P40W.

In Europe the Iberian peninsula once again was the place to be. Timo, OH1NOA, keyed CT8T to the top-score position. Second place went to Chris, SP7GIQ, operating as SN7Q. Third place went to Dave, G4BUO.

Here in the USA the new champion was Dave, NT1N. Winning by over a million points in the US is not trivial. Dave made it happen as KT1V. Second place went to Randy, K5ZD/1, and third place went to Bob, KQ2M/1. The top scores from each continent were: North America 8P5A; Africa 6V6U; Asia A45XR; Japan JH5FXP; Europe CT8T; South America P40E; and Oceania T88JA.

Low Power

Once again you had to point your beam south to work the top three low-power champions. With conditions over the pole occasionally tough, operating from southern latitudes made a lot of sense. Reprising his winning low power efforts, Joe, AA3B, keyed V26K to the world's top spot. He was followed by Con, DF4SA, at CT3EE and Carsten, DL1EFD, at PJ4W.

In the US Dan, K1TO/4, keyed/typed his way to new US record. Dan took full advantage of conditions to out-QSO all of his competitors. A FB

second-place effort was accomplished by Marvin, N5AW, out in Texas. Third place went to Terry, N4TZ/9. It has been quite a while since the northeast US has been shut out of the top three.

Northeastern or southeastern Europe once again was the place to operate. First place was won by Andrius, LY2TA, at LY7Z. Second place went to Stefan, DL1IAO, and third place to Manuel, EA7RM. The top scores from each continent were: North America V26K; Africa CT3EE; Asia 4X6FR; Japan JH4UYB; Europe LY7Z; South America PJ4W; and Oceania KH0/JK2VOC.

QRP

Tuning up your rig to no more than 5 watts is all you have to do to enter the QRP category. The QRP category is a great place to improve your operating skills. As it turns out, many entrants in this category run much less than 5 watts. This year one entrant ran 1 milliwatt! It's fun to see what you can do with such low power. All three top QRP scores were from the Caribbean rim. The QRP world winner this year was Didier, FY5FY. Second place went to John, KK9A, operating P40A, and third place went to Philip, N0KE, at T15N. We bet you worked all three. The top QRP man in the US was Tom, N4KG, followed by John, K1RC, and Bill, N8ET. Gary, W9XT, and Frank, W6JTI, did a great job from the west. In Europe Bosko, YT7TY, took the crown home by beating DL3KVR and Tom, SP6AYP.

Both JA6GCE and Valery, UA9AMF, did an outstanding job. Top scores from each continent were: North America T15N; Africa CT9M; Asia JA6GCE; Europe YT7TY; and South America P40A (Oceania no entrant).

Assisted

Repeating his world high victory of last year, Frank, DL2CC, traveled down to CT9M again. Fresh off his high finish in WRTC 2002, Frank took advantage of the erratic conditions to take home the trophy. Second place went to another DXpeditioner; Marco, IK0YVV, went to African Italy as IG9A. World third place went to Barry, W2UP/3, who was also #1 in the USA. Moving up to first place this year with the #1 score in Europe was Boris, S58A. The battle for second and third place in Europe was a Bavarian Contest Club affair. Ben, DL6FBL, edged out Roland, DK3GI. In the US, second place went to long-time packet champion Charles, K3WW. Taking third position again was Noah, K2NG.

The top scores from each continent were: North America W2UP/3; Africa CT9M; Asia JY9QJ; Japan JH7PKU; Europe S58A; South America YV4GLD; and Oceania KH0/JF2VAX.

Multi-Single

Soon after the former USSR collapsed, many Russian contesters had the opportunity to travel to better locations for the CQ WW. They didn't waste much time in establishing P3A as the multi-single to beat. This year was no exception. The P3A team took top world honors. Second place in the world was the multi-national effort from D44TD. The team was made up of a few members of previous years' IG9A multi-multis.



Professor Jayaraman, VU2JN, a long-time CQ WW participant.

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Being in D4 sure helps when conditions are up and down. Third place in the world was ZF1A.

To gain first place multi-single in Europe is a real feat! First place went to the Spanish team who manned EA6IB. The team keyed their way

to the top of the rankings. Second place went to the fine French team TM5C, and third to the Mt. Capra team of IQ4A.

In the US, Tom's crew at K1KI had the most QSOs and multipliers. They also had the high-

est score, with 8.1 million points. Second place was taken by W2FU. Third place went to another New England team, K1IR.

The top scores from each continent were: North America ZF1A; Africa D44TD; Asia P3A;

TROPHY WINNERS AND DONORS

SINGLE OPERATOR ALL BAND World

P40W (Opr: Jose Carlos Cardoso Nunes, CT1BOH)
Donor: W9IOP Memorial (Albert Kahn, K4FW)

World Low Power
V26K (Opr: Joseph Trench, AA3B)
Donor: Slovenia Contest Club

World QRPP
Didier Bironneau, FY5FY
Donor: Gene Walsh, N2AA

World Assisted
CT9M (Opr: Frank Grossmann, DL2CC)
Donor: CTRI Contest Group

USA
KT1V (Opr: Dave Patton, NT1N)
Donor: Frankford Radio Club

USA Low Power
Dan Street, K1TO/4
Donor: North Coast Contesters

USA - Zone 3
Ken Keeler, N6RO
Donor: Central Arizona DX Association

USA - Zone 4
Pat Barkey, N9RV
Donor: The Society of Midwest Contesters

Canada
VE2IM (Opr: Yuri Onipko, VE3DZ)
Donor: Jim Fisher, VE1JF

Carib./C.A.
8P5A (Opr: Tom Tom Georgens, W2SC)
Donor: Chuck Shinn, W7MAP

Europe
CT8T (Opr: Timo Klimoff, OH1NOA)
Donor: Edward Bissell, W3AU

Europe - Low Power
LY7Z (Opr: Andrius Ignotas, LY2TA)
Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Scandinavia
OH1F (Opr: Timo Pohjola, OH1MDR)
Donor: W3FYS Memorial (Chas Weir, Jr., W6UM)

Russia
Andrey Bondarenko, RV3FF
Donor: Roman Thomas, RZ3AA

Africa
6V6U (Opr: Richard Neuman, K3IPK)
Donor: Gordon Marshall, W6RR

Asia
Chris Dabrowski, A45XR
Donor: Chuck Shinn, W7MAP

Japan
Satoshi Hara, JH5FXP
Donor: Tack Kumagai, JE1CKA

Japan - Low Power
Masa Okano, JH4UYB
Donor: Western Washington DX Club

Oceania
T88JA (Opr: Toshiyuki Moriyama, JA6VZB)
Donor: CQ Magazine

South America
P40Q (Opr: Scott Redd, K0DDQ)
Donor: Venezuela DX Club

SINGLE OPERATOR, SINGLE BAND
World - 28 MHz
PX2W (Opr: Hamilton Oliveira Martins, PY2YU)
Donor: Joel Chalmers, KG6DX

World - 21 MHz
HP1XVH (Opr: Stefan Radtke, DL5XX)
Donor: N5JJ Memorial (Don Busick, K5AAD)

World - 14 MHz
JY9NX (Opr: Koji Tahara, JM1CAX)
Donor: W2JT Memorial (North Jersey DX Assn.)

World - 7 MHz
P40J (Opr: Robert Brockman, WX4G)
Donor: Alex M. Kasevich, VP2MM

World - 3.5 MHz
SO2R (Opr: Kaz Drzewiecki, SP2FAX)
Donor: Fred Capossela, K6SSS

World - 1.8 MHz
4X3A (Opr: Riki Kline, 4X4NJ)
Donor: Kenneth Byers, Jr., K4TEA

USA - 28 MHz
Bill Tippet, W4ZV
Donor: Wireless Institute of the Northeast

USA - 21 MHz
James Parise, W1UK
Donor: Wayne Carroll, W4MPY

USA - 14 MHz
Brian Edward, N2MF
Donor: Northern Illinois DX Association

USA - 7 MHz
Philip Allardice, KT3Y
Donor: W6AM Memorial (Jan Perkins, N6AW)

USA - 3.5 MHz
Robye Lahlum, W1MK
Donor: Bill Feidt, NG3K

USA - 1.8 MHz
William Hein, AA6TT/1
Donor: Cathy Obermann Memorial
(Dave Patton, NT1N & Mark Obermann, AG9A)

Canada (21 MHz)
VE6JY (Opr: Gary Caldwell, VA7RR)
Donor: Radio Amateurs of Canada (RAC)

Carib./C.A. (21 MHz)
ZF2NT (Opr: Bruce Sawyer, N6NT)
Donor: CQ Magazine

Europe - 28 MHz
9A5Y (Opr: Sasa Pokorni, 9A3NM)
Donor: Jay Pryor, K4OGG

Europe - 21 MHz
OH6AC (Opr: Jyrki Nieminen, OH6CS)
Donor: Robert Naumann, N5NJ

Europe - 14 MHz
J.P. Fisher, G0IVZ
Donor: G3FXB Memorial (Maud Slater)

Europe - 7 MHz
OH0NL (Opr: Leppala Mauri, OH2BYS)
Donor: Ivo Pezer, 9A3A/5B4ADA

Europe - 3.5 MHz
Robert Bajuk, S57AW
Donor: K3VW Memorial (Frankford Radio Club)

Europe - 1.8 MHz
John Devoldere, ON4UN
Donor: Pat Barkey, N9RV & Terry Zivney, N4TZ

Japan - 21 MHz
Kenji Koishi, JH3AIU
Donor: DX Family Foundation

Japan - 14 MHz
Yoshiharu Katada, JA9CWJ
Donor: CQ Magazine

MULTI-OPERATOR, SINGLE TRANSMITTER
World
P3A (Oprs: RA9JX, RW4WR, RW9UP, RZ3AA, RZ9OA, RZ9UA, UA3AB, UA3DPX, UA3TU, UA9CDV, UA9OTM, UA9UR, UA9YAB)
Donor: Anthony Susen, W3AOH

U.S.A.
K1KI (Oprs: K1KI, K1CC, KM1P)
Donor: Douglas Zwiebel, KR2Q

Canada
VE7SV (Oprs: VA7NT, VE7AG, VE7CA, VE7CC, VE7SV)
Donor: Eastern Canadian DX Assn.

Carib./C.A.
ZF1A (Oprs: K6AM, KG5U, K9MK, N4GI, N9XX, W5ASP)
Donor: Lone Star DX Association

Africa
D44TD (Oprs: IK2NCJ, IK2JUB, IK2PFL, SV8CS)
Donor: Harry Booklan, RA3AUU

Asia
RT9W (Oprs: RU9WX, RX9WR, RW9WA, RW9WW, RW3XX, RW9WY, RV9WA, RA9WR)
Donor: Steve Merchant, K6AW

Europe

EA6IB (Oprs: EA3AIR, EA3ALV, EA3AVV, EA3KU, EA5BM, EA5ZF, EA6ACC, EA6FB, EA6FO, EC3AJV)
Donor: Bob Cox, K3EST

Japan
JA7YAA (Oprs: JE7HLZ, JH0NZN, JG7PSJ, JO7FTJ, JI5RPT, JO7DJT)
Donor: Vienna Int'l Amateur Radio Club - 4U1VIC

Oceania - Pacific Rim
9M6A (Oprs)
Donor: Junichi Tanaka, JH4RHF

South America
AY1DZ (Oprs: AY1DZ, LU7EE, LU6EF)
Donor: Araucaria DX Group

MULTI-OPERATOR, TWO TRANSMITTERS
World
A61AJ (Oprs: A61AJ, S50R, S53A, S53R, S57CQ, ON4WW, DK7YY, DL3DXX)
Donor: Ranko Boca, YT6A

USA
K4JA (Oprs: K4JA, K4EU, K4MA, K7SV, K9GY, KE9I)
Donor: Northern Neck Contest Club

MULTI-OPERATOR, MULTI-TRANSMITTER
World
EA8ZS (Oprs: EA8ZS, OH1MA, OH1RY, OH1JT, OH2BV, OH2HE, OH2IW, OH2JA, OH2JTE, OH2LUR, OH2XX, OH4JFN, OH5JOC, OH6CT, OH6EI, OH6DD, OH7BX, OH7JR)
Donor: K2GL Memorial (Doug Zwiebel, KR2Q)

USA
KC1XX (Oprs: KC1XX, AD1C, DL7NS, DL7SI, K1GQ, N3RD, N6HB, N6IG, N6MJ, W1FV, W2RQ)
Donor: N6RJ Memorial (Bob Ferrero, W6RJ)

Europe
9A1A (Oprs: N4PN, NF4A, S51R, 9A5W, 9A7R, 9A4WW, 9A5E, 9A6A, 9A2EU, 9A5K, 9A8W, 9A2DQ, 9A9A)
Donor: Finnish Amateur Radio League

Japan
JA5BJC (Oprs: JA5FDJ, JA5JC, JH5FIS, JH5PHC, JH5RXS, JR5JAC, JR5VHU, JM1UWB, JA5BJC)
Donor: Ryozo Goto, JH3JYS

WORLD - SSB/CW COMBINED
EA8ZS
Donor: W0ID/W0UN ALPHA Award
JAPAN - MULTI-SINGLE SSB/CW COMBINED
JA7YAA
Donor: Vienna Int'l Amateur Radio Club - 4U1VIC

CONTEST EXPEDITIONS
World Single Operator
9L1AB (Opr: Andy Chadwick, G3AB)
Donor: Yankee Clipper Contest Club

World Multi-Single
CY0MM (Oprs: N1NK, VE3EY, VE3NZ, VE3NE)
Donor: Carl Cook, A16V

World Multi-Multi
HC8N (Oprs: K5KA, G3XTT, K1EA, N5KO, S50A, WA6O, K6AW, K1DG, HA1AG, K9NW, S56MM)
Donor: Bill Schneider, K2TT

SPECIAL - SINGLE OPERATOR AWARD
World SSB/CW Combined
PT0F, P40E
(Opr: Jose Carlos Cardoso Nunes, CT1BOH)
Donor: Hrane Milosevic, YT1AD

World All Band: Under 21 years old
Thomas Andersen, OZ1AA
Donor: Chuck Shinn, W7MAP

CLUB
World SSB/CW
Yankee Clipper Contest Club
(486,010,298)
Donor: W1WY Memorial (CQ magazine)

Non-USA SSB/CW
Bavarian Contest Club (207,482,977)
Donor: N6AUV Memorial
(Northern California Contest Club)

Japan JA7YAA; Europe EA6IB; South America AY1DZ; and Oceania 9M6A. Special mention must be made of the efforts of CY0MM, T48K, B4R, Y19OM, JV5C (celebrating the 800th anniversary of Genghis Khan), and R1ANF.

Multi-Two

If you decided to enter the new multi-two category, you found out just how much fun and intense team work can be. Two stations on the air all the time equals a lot of QSOs. Emerging as the first ever world multi-two champion was

A61AJ. Ali's group was truly an international crew. Their efforts paid off big time. Second place went to 3V8BB. These guys were everywhere and had good ears. Third world went C53M, the first all Latvian contest DXpedition. Congratulations, guys! Also trying out the new category were two European powerhouses who usually enter as multi-multi. Taking first place was the RU1A team. They were closely followed by RW2F. Farther to the west, G15W took third. After carefully constructing a FB station in Tidewater, Virginia, K4JA's team walked away with the US multi-two top score and a new

record. Second place went to N3RS, Sig's fine team in the Philadelphia area. Third place went to another Frankford Radio Club station, N2NU. The top scores from each continent were: North America K4JA; Africa 3V8BB; Asia A61AJ; Europe RU1A; South America LT1F, and Oceania AH2R (Japan no entry).

Multi-Multi

The battle for the top position in the multi-multi category was very fierce. Teams were assembled, plans were made months in advance, and

TOP SCORES

WORLD

Single Operator All Band

P40E.....	14,251,216
P40Q.....	11,191,146
P40W.....	10,076,400
A45XR.....	9,300,480
6V6U.....	8,765,820
ZD8A.....	8,611,610
8P5A.....	8,521,143
D4B.....	8,033,792
KT1V.....	8,027,304
9L1AB.....	7,950,840

28 MHz

PX2W.....	1,794,338
CX5BW.....	1,169,430
4L8A.....	818,976
W4ZV.....	625,163
IU9S.....	602,301
IR4T.....	595,140

21 MHz

HP1XVH.....	1,473,683
PY2NY.....	1,290,879
9M6NA.....	1,043,526
PM2NDX.....	977,796
VK4EMM.....	886,103
VE6JY.....	753,640

14 MHz

JY9NX.....	1,085,166
PY2NY.....	852,720
LU4FM.....	850,640
UA9AYA.....	751,284
G0IVZ.....	653,805
M7Z.....	633,290

7 MHz

P40J.....	910,315
OH0NL.....	864,468
OA4WW.....	853,078
YW1D.....	757,846
YT7A.....	678,456
KT3Y/4.....	569,712

3.5 MHz

SO2R.....	403,368
S57AW.....	310,310
UN7CW.....	303,831
W1MK.....	284,050
OH2BH.....	271,998
YL0A.....	253,920

1.8 MHz

4X3A.....	126,960
FM5GU.....	112,651
ON4UN.....	107,160
YL2PQ.....	74,866
EU6EU.....	74,128
RW4PL.....	72,261

Low Power All Band

V26K.....	8,018,582
CT3EE.....	6,964,784
PJ4W.....	6,792,895
FM5BH.....	6,788,900
F5/KM3T.....	5,608,350
S9MX.....	5,303,090
K1TO/4.....	4,141,188
LY7Z.....	3,976,576
VP9/W6PH.....	3,950,969
EA8CN.....	3,353,336

28 MHz

CW4A.....	1,270,773
LU8DW.....	516,648
Z36W.....	463,680
LW7DX.....	454,450
UN5J.....	416,770
9A3VM.....	332,780

21 MHz

VR2BG.....	713,022
YV6AZC.....	598,995
CT1BQH.....	462,308
YZ1AU.....	426,184
UA0JQ.....	418,990
VO1MP.....	414,834

14 MHz

VK4DX.....	477,432
S57DX.....	363,552
UN9LN.....	306,056
5N0W.....	283,745
LZ2TU.....	258,292
S57Z.....	257,546

7 MHz

TA3D.....	661,797
LY6A.....	281,586
UT1FA.....	247,940
4Z8EE.....	244,174
RK9AWC.....	233,700
HA8JV.....	226,800

3.5 MHz

HA8EU.....	87,370
4L2M.....	75,668
GM3YOR.....	60,839
PA0MBD.....	26,350
HT9T.....	14,310
UA6AKD.....	12,996

1.8 MHz

SV1NA.....	61,920
YZ7A.....	51,900
Z33F.....	51,170
LY3UM.....	41,554
G4VGO.....	40,508
9A4X.....	38,961

QRP, All Band

FY5FY.....	3,556,339
P40A.....	3,408,048
TI5N.....	1,581,432
N4KG.....	1,139,670
JAGGCE.....	1,033,533
YT7TY.....	991,716
K1RC.....	747,544
UA9AMF.....	722,540
VE9DX.....	719,355
N8ET.....	708,344

Assisted, All Band

CT9M.....	11,225,452
IG9A.....	10,240,830
W2UP/3.....	7,171,760
S58A.....	6,227,543
K3WVW.....	6,044,506
DL6FBL.....	5,338,898
JY9SQ.....	5,208,905
RX9SX.....	4,276,258
DK3GI.....	4,264,875
DF3CB.....	4,138,046

Multi-Op, Single Trans.

P3A.....	19,470,528
D44TD.....	13,092,536
ZF1A.....	10,893,000
EA6IB.....	10,583,464
TM5C.....	9,332,728
RT9W.....	8,988,696
IQ4A.....	8,596,800
9A7A.....	8,448,192

Multi-Op, Two-Trans.

A61AJ.....	24,384,292
3V8BB.....	22,702,797
C53M.....	21,161,637
CT9L.....	20,941,492
RU1A.....	14,817,880
RW2F.....	14,122,368

Multi-Op, Multi-Trans.

EA8ZS.....	51,429,675
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HC8N.....	42,449,346
XT2DX.....	35,221,070
PT5A.....	28,634,736
PJ2T.....	21,171,234
J3A.....	20,150,950

EUROPE

Single Operator All Band

CT8T.....	7,416,123
SN7Q.....	4,949,340
G4BUO.....	4,837,520
DL4NAC.....	4,778,204
MW5A.....	4,633,299
YT6A.....	4,604,818
EN7Z.....	4,198,624
G3TXF.....	4,071,897
OK1RF.....	4,013,569
4U1ITU.....	3,550,566

28 MHz

IU9S.....	602,301
IR4T.....	597,324
TM7XX.....	558,448
MD6V.....	444,091
S57AL.....	420,750
LZ9X.....	402,384

21 MHz

OH6AC.....	719,780
OH0V.....	697,218
S57O.....	662,816
SP3GEM.....	536,860
YT9X.....	534,803
4U1VIC.....	516,768

14 MHz

G0IVZ.....	653,805
M7Z.....	633,290
OH4A.....	623,720
YP3A.....	582,030
IT9BLB.....	519,871
EW8EW.....	483,288

7 MHz

OH0NL.....	864,468
YT7A.....	678,456
HA9SU.....	473,838
IT9/OLSY.....	449,645
OH9DX.....	433,784
UZ8M.....	342,378

3.5 MHz

SO2R.....	403,368
S57AW.....	310,310
OH2BH.....	271,998
YL0A.....	253,920
S50U.....	244,440
S50C.....	238,022

1.8 MHz

ON4UN.....	107,160
YL2PQ.....	74,866
EU6EU.....	74,128
RW4PL.....	72,261
9A2AJ.....	69,179
HA8IB.....	48,807

Low Power All Band

LY7Z.....	3,976,576
DL1IAO.....	3,097,332
EA7RM.....	2,834,382
LY9A.....	2,649,402
OK2PP.....	2,641,250
DL2OBF.....	2,265,088
UA4FER.....	2,211,201
DK5PD.....	2,100,756
RM3C.....	1,978,886
SP4ZO.....	1,978,704

28 MHz

Z36W.....	463,680
9A3VM.....	332,780

T94FC.....	264,040
4N7N.....	259,444
IK7JWY.....	256,734
S57J.....	256,350

21 MHz

CT1BQH.....	462,308
YZ1AU.....	426,184
HA8IH.....	412,160
UW8M.....	346,788
OM2VL.....	322,677
EA1AK/7.....	281,850

14 MHz

S57DX.....	363,552
LZ2TU.....	258,292
S57Z.....	257,546
LZ6W.....	234,675
YU7BJ.....	212,040
YZ1KA.....	194,040

7 MHz

LY6A.....	281,586
UT1FA.....	247,940
HA8JV.....	226,800
4N1FG.....	216,945
UW5U.....	183,816
9A7T.....	163,357

3.5 MHz

HA8EU.....	87,370
GM3YOR.....	60,839
PA0MBD.....	26,350
UA6AKD.....	12,996
PA3BNT.....	4,800
OH4ML.....	2,530

1.8 MHz

SV1NA.....	61,920
YZ7A.....	51,900
Z33F.....	51,170
LY3UM.....	41,554
G4VGO.....	40,508
9A4X.....	38,961

QRP, All Band

YT7TY.....	991,716
DL3KVR.....	678,385
SP6AYP.....	599,456
RN6FO.....	578,759
HG5Z.....	574,180
YU1LM.....	534,140
S52P.....	530,640
GW3JXN.....	523,319
UR5FAI.....	437,580
RN4ZT.....	396,567

Assisted, All Band

S58A.....	6,227,543
DL6FBL.....	5,338,898
DK3GI.....	4,264,875
DF3CB.....	4,138,046
S52W.....	4,001,408
EA5FV.....	3,940,686
UW5Q.....	3,281,680
OK2FD.....	3,081,045
LY2CY.....	2,751,840
OH6NIO.....	2,748,466

Multi-Op, Multi-Trans.

9A1A.....	17,255,246
DF0HQ.....	16,336,230
N8II.....	224,564
GM7V.....	10,353,582
LY7A.....	9,854,838
OL5T.....	6,695,024
OZ5W.....	4,862,211

UNITED STATES

Single Operator All Band

KT1V.....	8,027,304
K5ZD/1.....	7,069,788
KQ2M/1.....	6,716,460
N9RV.....	6,369,849
W1KM.....	6,116,422
N2NT.....	5,760,576
W1WEF.....	5,268,776
K1AR.....	5,003,439
K4ZW.....	4,930,744
K3CR.....	4,853,225

28 MHz

W4ZV.....	625,163
N4BP.....	564,921
N9AG/8.....	471,274
K1XX.....	366,749
NS0Z.....	301,203
W0YK/6.....	219,880

21 MHz

W1UK.....	599,610
N5YA.....	466,310
W6YA.....	440,916
NO4S.....	424,501
KV0Q.....	418,258
N7DD.....	392,450

14 MHz

N2MF.....	472,644
K2XR.....	425,000
N7WA.....	392,496
K7OX.....	320,908
K4NNN.....	282,438
W5MX.....	169,524

7 MHz

KT3Y/4.....	569,712
K4VX/0.....	341,109
N9TK.....	329,784
W3TX.....	320,144
N2WW/0.....	271,776
K4TX.....	150,822

3.5 MHz

W1MK.....	284,050
NQ4I.....	78,100
K4DLJ.....	68,324
N5RG.....	39,900
K4OAG.....	37,966
W5FO.....	16,880

1.8 MHz

BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
P40E	244/14/32	727/21/70	1463/30/107	1261/32/116	1646/32/126	1685/32/112
P40Q	50/10/22	419/17/65	1089/25/86	1349/34/102	1339/30/99	2202/28/99
P40W	82/10/21	392/17/59	1043/26/84	1302/34/110	1485/30/101	1585/28/102
A45XR	136/11/45	197/17/53	1230/29/96	1015/33/111	1349/34/109	1165/31/103
6V6U	30/10/24	211/14/55	607/24/73	1244/28/92	1238/28/99	2128/25/95
ZD8A	54/13/17	125/18/49	649/27/75	873/30/97	1757/30/114	1553/28/104
8P5A	73/9/15	597/16/63	1311/26/93	1144/27/90	1306/27/95	1819/26/92
D4B	76/16/48	175/17/44	1032/25/78	897/28/88	1041/24/80	1925/27/93
KT1V	95/15/45	456/19/77	1196/33/102	541/33/102	1019/30/114	803/28/110
9L1AB	93/12/40	166/18/51	438/23/68	1437/30/100	1451/30/100	1308/26/92

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
KT1V	95/15/45	456/19/77	1196/33/102	541/33/102	1019/30/114	803/28/110
K5ZD/1	74/15/39	283/19/79	855/30/110	711/36/114	824/31/115	749/31/107
KQ2M/1	42/11/26	257/19/81	748/31/105	560/35/116	1027/33/123	883/26/107
N9RV	27/10/17	150/22/75	886/31/103	620/36/118	823/34/127	794/31/107
W1KM	53/15/30	528/22/82	831/27/99	621/30/101	713/26/93	708/26/90
N2NT	34/9/18	350/17/77	753/28/101	615/34/107	869/32/110	622/27/97
W1WEF	28/8/15	300/16/67	590/30/102	605/34/112	714/31/107	742/23/101
K1AR	31/11/24	235/20/77	445/29/104	610/34/126	499/30/111	792/29/112
K4ZW	27/12/18	174/21/73	517/31/106	372/33/101	817/32/117	704/29/103
K3CR	29/10/21	239/19/76	471/29/103	511/34/107	695/34/111	689/29/112

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

P3A	326/15/71	949/21/92	1797/31/134	1661/39/134	1591/35/136	2108/35/135
D44TD	111/14/58	304/19/84	702/30/105	1665/36/137	1460/35/134	2252/34/138
ZF1A	226/11/24	655/21/84	1377/31/119	948/33/122	1790/32/129	1522/29/115
EA6IB	107/14/72	802/29/117	1865/33/137	1086/33/137	1302/33/134	1044/35/142
TM5C	60/8/59	742/23/98	1551/32/127	1017/31/129	1026/34/136	1068/34/131
RT9W	270/12/59	686/21/84	951/30/118	851/34/114	788/33/124	914/32/125

USA MULTI-OPERATOR SINGLE TRANSMITTER

K1KI	41/14/39	311/23/97	1086/36/132	554/38/136	902/35/138	652/31/130
W2FU	36/13/34	241/25/98	820/33/120	515/38/137	957/36/139	692/30/120
K1IR	32/10/31	445/22/96	762/33/121	582/36/135	754/31/130	766/28/123
K8AZ	34/14/31	158/24/93	737/32/125	573/39/140	796/35/138	568/33/131
K5NZ	19/9/18	87/24/75	601/35/127	487/37/135	582/34/137	693/32/135
WE2F	18/8/9	116/17/64	222/26/99	340/34/103	782/32/114	466/26/90

WORLD MULTI-OPERATOR TWO TRANSMITTER

A61AJ	405/14/56	963/30/102	2546/36/129	1679/38/140	2421/38/139	2491/38/138
3V8BB	532/11/64	1102/19/83	2810/35/120	1609/38/118	2238/35/123	2258/33/114
C53M	163/14/54	634/20/78	2003/30/107	1966/37/122	2873/35/125	3135/31/118
CT9L	123/9/38	1144/18/87	1824/30/110	1408/38/138	2550/35/141	2143/32/130
RU1A	312/17/74	1142/32/120	1991/36/141	1717/38/138	1565/36/146	1084/35/139
RW2F	693/18/79	1318/30/118	1827/36/133	1510/34/131	1749/36/145	1035/35/141

USA MULTI-OPERATOR TWO TRANSMITTER

K4JA	79/18/56	625/21/105	1480/36/133	911/38/146	1568/35/144	1085/34/137
N3RS	43/12/30	279/23/95	1228/36/127	607/37/140	1129/35/143	1091/31/128
N2NU	46/13/28	367/22/93	751/30/116	819/37/136	1127/34/138	804/31/125
N4WW	34/11/21	218/24/93	735/31/120	598/37/129	988/34/142	1003/31/118
N4RV	31/11/21	205/20/82	485/31/117	563/36/125	1237/33/141	653/30/118
W8AV	49/14/32	221/20/84	449/32/123	549/37/134	1096/34/138	665/31/121

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

EA8ZS	992/20/101	2160/32/126	3395/37/146	3823/38/152	3418/38/163	3387/37/155
HC8N	595/18/41	1472/29/108	3069/37/141	3367/38/149	3813/37/158	4045/35/151
XT2DX	179/15/53	582/21/74	2424/35/126	4148/38/142	3957/37/150	3549/34/140
PT5A	301/19/63	437/22/79	1807/35/117	2736/37/133	3404/37/151	3683/36/143
PJ2T	481/15/31	730/19/70	1645/29/116	3180/39/144	2591/31/113	2058/31/111
J3A	148/10/23	738/22/82	2121/32/117	2910/36/131	2993/33/138	2853/33/128

USA MULTI-OPERATOR MULTI-TRANSMITTER

KC1XX	191/17/65	825/29/121	1724/37/136	1560/39/152	1835/38/150	1543/34/142
W3LPL	269/17/59	796/29/112	1624/36/135	1371/38/144	1747/36/148	1457/33/142
N2RM	103/16/50	416/23/103	1269/37/138	1509/38/146	1555/35/142	1283/32/136
NY4A	33/12/23	372/24/101	1437/34/126	1417/38/144	1530/35/141	1259/32/129
K9NS	166/21/46	314/28/96	1102/37/135	1311/38/146	1531/37/147	1127/34/130
K1TTT	92/11/34	863/24/94	1686/32/126	1145/37/139	1281/35/138	1002/30/121

big stations were built or enhanced. The crews all knew one another and that made it even more fun. This year's winner was the team from EA8ZS, operating from a banana plantation. On the slopes of a dead volcano on San Cristobal island, HC8N keyed their way to second place. Third place went to the Voodoo Contest Club. They used all their magic to put XT2DX in almost everyone's log.

The number one score in Europe went to 9A1A. Their newly rebuilt station on a mountain ridge in northern Croatia makes them very competitive. Second place went to DF0HQ located in southeastern Germany. The number three European station was GM7V, the North of Scotland Contest group.

Here in the US there is always a battle for the top spot. All three top finishers are familiar calls. Taking first place again was Matt's team at KC1XX located in south central New Hampshire. Second place went to Frank's team at W3LPL, and third went to Bob's team, N2RM, operating from eastern New Jersey. The top scores from each continent were: North America J3A; Africa EA8ZS; Asia JA5BJC; Europe 9A1A; and South America HC8N (Oceania no entrant).

Clubs

One of the best ways to enjoy ham radio is to join a club. There are many contest clubs, and



Andy, 9L1AB (G3AB).

one is probably near you. If you don't already belong to a club, join one and help them out in the CQ WW club competition. The US clubs always have a strong participation in the CQ WW, and this year was no exception. The battle for first place in the US and DX was fierce! After all the log checking, it was determined that the Yankee Clipper Contest Club had just edged out the Frankford Radio Club. Third place went to the Potomac Valley Radio Club. In the rest of the world, top honors were taken by the Bavarian Contest Club, who just edged out the Rhein-Ruhr DX Association. Third place went to Contest Club Finland. The competition for a top club spot is heating up.

Team Contesting

Get on the air, make some friends, get them to join a five man team, and what do you have? Team contesting. Teams can be local or from anywhere in the world. This year there were 21 teams! Here's how they finished:

PACTOR 2 MODEM

PTC-2ex Modem Multimode

- PACTOR-II & PACTOR-III
- Compact unit
- Low power consumption
- GPS interface for NMEA data



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EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
CT8T	160/12/55	826/18/78	989/22/89	1082/27/98	960/30/96	1760/28/96
SN7Q	343/15/60	788/22/82	784/30/99	623/24/72	750/30/96	723/28/102
G4BUO	166/11/58	615/17/73	591/24/92	709/32/103	632/30/103	608/32/105
DL4NAC	65/7/51	195/17/68	1174/31/111	744/28/89	575/28/97	550/35/106
MW5A	38/7/38	394/15/65	1105/23/87	988/25/84	657/26/76	889/27/88
YT6A	125/9/52	306/16/76	1033/34/119	845/34/115	1018/32/119	375/29/92
G3TXF	200/10/56	719/19/76	381/22/84	426/24/81	672/28/93	824/26/102
OK1RF	119/11/52	286/18/71	809/32/110	879/32/104	291/27/83	521/32/107
4U1ITU	203/6/42	650/11/53	1452/24/90	1167/23/75	1372/27/82	1805/22/79
OH1F	197/8/43	378/15/64	1511/30/90	2103/28/85	1116/29/89	556/27/87

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

EA6IB	107/14/72	802/29/117	1865/33/137	1086/33/137	1302/33/134	1044/35/142
TM5C	60/8/59	742/23/98	1551/32/127	1017/31/129	1026/34/136	1068/34/131
IQ4A	66/12/66	480/25/104	1100/34/135	874/36/140	1089/36/139	1019/36/137
9A7A	161/11/68	696/22/93	1329/36/137	660/33/119	1294/36/144	915/33/132
SK3W	63/11/62	470/26/107	1125/38/137	915/36/129	1164/32/132	696/35/131
OK5W	149/12/68	762/27/103	1174/36/136	641/35/136	913/35/142	868/35/137

EUROPE MULTI-OPERATOR TWO TRANSMITTER

RU1A	312/17/74	1142/32/120	1991/36/141	1717/38/138	1565/36/146	1084/35/139
RW2F	693/18/79	1318/30/118	1827/36/133	1510/34/131	1749/36/145	1035/35/141
GI5W	337/10/64	1581/21/101	1899/37/133	1493/33/122	1815/33/136	1256/31/127
LX5A	478/9/60	1565/20/93	1389/33/118	1184/33/126	1773/33/134	1396/32/127
HG6N	497/14/71	1302/27/106	1187/35/129	1042/32/118	1621/36/142	1237/34/137
ZA1B	480/12/64	1583/21/89	1571/27/90	1101/27/89	1734/31/102	1515/24/100

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

9A1A	843/17/79	1428/30/105	2478/36/142	2149/36/139	2277/37/137	1700/37/134
DF0HQ	683/13/74	1560/28/104	2165/38/143	1824/37/143	1818/37/153	1448/36/149
GM7V	809/13/70	1297/21/94	1502/30/107	1934/34/125	1401/35/135	1237/29/116
LY7A	703/14/72	1222/22/87	1687/36/129	1392/32/121	1291/35/135	937/33/121
OL5T	260/7/55	695/16/74	643/26/105	1521/36/135	1210/34/135	676/35/133
OZ5W	32/5/27	675/18/87	635/28/120	1002/34/118	639/31/127	422/31/131

- Rhein-Ruhr Steamboats:** CT9M (DL2CC), DJ2YA, DL2OBF, DL3YBM, PJ4W (DL1EFD)—25,052,255
- Royal Bavarian Contest Team #1:** DF3CB, DK3GI, DL4NAC, DL6FBL, JY9QJ—23,728,928
- Team Contest Club Ontario:** VE2IM (VE3DZ), VE3ANX, VE3AT, VE3EJ, VE3XB—19,361,379
- Twist-off Lids:** KT1V (NT1N), W6EEN (N6RT), ZD8A (K6NA), N6TW, 9V1YC—19,157,892
- Snap-on Lids:** K5ZD/1, N2NT, 4G1A (N2NL), RW9OWD (N6ZZ), NØAX/7—19,002,723
- CCF Sunburn:** CT8T (OH1NOA), LY2CY, LY7Z (LY2TA), OHØZ (OH2MA), OH1F (OH1MDR)—18,465,194
- Reusable Lids:** K1TO, N2IC, K5GN, K1AR—17,469,413



ZP6T, "the team."



Paul, K9PG, was on the air as FM5BH for the contest.

- Disposable Lids:** FS/KM3T, N5RZ, K2UA, K5TR—15,854,736
- Royal Bavarian Contest Team #2:** DF4RD, DL1IAO, DKØDO (DL1MGB), OE8CIQ, CU/DJ9RR—10,902,350
- WWYC All Night Runners:** 8S2F (SM3WMV), IK3UNA, OZ1AA, ON4CCP—5,950,274
- CCF Frozen Paddles:** OA4WW (OHØXX), OH2BH (OH1WZ), OH4A (OH6QU), OH5CW, OH8LAE—4,392,440
- WWYC Kinky Callers:** 9A2RD (9A6NDX), DJ9AO, NR3X (N4YDU)—3,847,958
- N1MM Logger Users A:** VE1OP, W1EBI, K1NT—3,210,123
- CCF Help:** OH1MM, OH5DX, OH6NIO—3,148,086
- Royal Bavarian Contest Team #3:** DL5RMH, DFØWA (DL2MEH), HBØ/DJØIP, OE2S (OE2VEL)—2,597,691
- CCF Sweet FIFTEEN:** 9M6NA (JE1JKL), OHØV (OH6LI), OH6AC (OH6CS)—2,460,524
- N1MM Logger Users B:** WW3S, N7OR, KB4N, MMØBQI, M2D (G4BYG)—1,978,936
- CCF Frost Bitten:** OH2LU, OH1HD, OH6BG, OH6NJ—1,272,753
- WWYC Pile-up Penetrators:** DJ1YFK, S57O (S51TA), K9YO—1,148,184
- TA2BK is on the air - Team 2:** TA3D, TA3J, TA2DA—918,145
- Royal Bavarian Contest Team #4:** DL9NEI, DL8NFU, DK2GZ, DH1TW—887,624
- TA2BK is on the air - Team 1:** TA1DX, TA3YJ, TA1EQ—3,723.

Special Mention

The contest is made more interesting by the many DXpeditions that fan out around the world. Here are some of the exotic calls you may have worked: V26K, 8P5A, VP9/W6PH, VP9/WA3AAN, ZF2NT, TG4/WØIZ, 6Y8A, FM5BH, V47KP, VP5V, KP2/OK1TN, KP2/OK1CW, ZD8A, EA8/ES6DO, EA8/OH2NC, D4B, CT3EE, 3B8CF, CN2R, 5NØHHD, S9MX, 6V6U, 9L1AB, SØ7PM, 9S1X, RW9OWD, A92ZE, RA9CO, AD6TF, 4Z8EE, JY9NX, RN9AO, XW1IC, HZ1AB, BV4YI, SU9US, ZC4VG, 3W2LWS, 4U1ITU, 4U1VIC, OHØV, OHØNL, CU/DJ9RR, EA6/DL8NBY, SV9/LA4XFA, J45KLN, MU5X, GJ2A, MJØASP, CT8T, IU9S, IT9/OL5Y, MM/SP2AVE, T88JA, V8YYY, 9M6NA, 9M6JU, KH6/K1ER, KH6/VA7CW, 8N1OGA, 4G1A, P40E, P40Q, P40W, P40J, PJ4W, P40A, T15N, 6Y1A, 6Y9A, KE7X, KH6/W8QZA, 6Y4A, 6YØA, IG9A, CT9M, TA2/Z31GX, KHØ/JF2VAX, C6AJX, ZF1A, T48K, HQ3J, CYØMM, EA8/DL6QW, D44TD, P3A, Y19OM, JV5C, EA6IB, LX7I, 9M6A, R1ANF, C6AKP, J75A, WP2Z, C53M, CT9L, 3V8BB, 9K9X, A61AJ, ZA1B, EA6/DL1GGT, LX5A, AH2R, J3A, XT2DX, EA8ZS, PT5A, HC8N, and PJ2T.

Outstanding single-band efforts were everywhere. To name a few: 9M6NA, 4L8A, VK4EMM, JY9NX, OA4WW, UN7CW, 4X3A, UN5J, VR2BG, UAØJQ, VK4DX, UN9LN, TA3D, 4Z8EE, RK9AWC, 4L2M, NSØZ, WØYK/6, W6YA, N7WA, K7OX, K4VX/0, N6MU, KA7T, NJ6P, and WA6IQM/7.

Comments

The CQ WW Contest Committee wants to thank all the contesters who submitted an electronic log in 2002. We had a total of approximately 7800 logs between SSB and CW, 7700 of which were electronic submissions! That's a lot of guys and gals making the effort to do it right. All the major contesting software packages will produce a Cabrillo log out-

(Continued on page 100)

A special thanks to Dick, N6AA, who once again spent countless hours making the CQ WW database the best in contesting. The CQ WW uses the software developed by Tree, N6TR, to create the database. Larry, N6TW, was invaluable in many ways. His help and expertise provided a very big part of what you see in the magazine. Phil, N6ZZ, put in lots of hours making sure the database was as clean as possible. Thanks to John, K1AR, for his advice and hard work to help make the CQ WW so successful.

Congratulations to all the winners and entrants! With the sunspot minimum approaching, it is important that all contesters keep the flame burning by getting on the air. Join a local club. Get a fellow contester on for a local, friendly competition. To learn, build, participate, and have FUN is what contesting is all about! See you in the 2003 CQ WW. 73, Bob, K3EST

DX QRM

Terrible condx first day + high level of noise on low bands. It was a big fun anyway. . . . **4U1ITU (OM8AW)**. Very bad, extremely windy weather before and during the contest. A tribander did not get up until Sunday morning. . . . **4U1VIC**. Who said QRP has to be weak? We had so much fun, we are looking forward to another QRP trip in 2003. . . . **6Y1A**. Major screwup. CQ msg was 6Y2A and TU message was 6Y5A. Treat other logs lightly if reported call is 6Y5A. Treat my log harshly. Contest was fun from DX location and QRP only. . . . **6Y2A**. Vy happy that I could QSO with HZ, PY's my new entities! This year's result is the best score of my past participations. Only 10W output! Mni tks 4 ur works. . . . **7K2PBB**. Worst condx in many years. Had a total blackout, nothing heard on any band on Saturday afternoon. Much better on Sunday. . . . **7S2E**. Thanks to 8P6SH for all of his help! . . . **8P2A**. Sorry but I was too busy to work more this time. Thanks a lot for all QSOs anyway. . . . **9A3CY**. Since A61AJ is a fully equipped multi-multi setup, I had to rewire the station in a way that only three operating positions were available (SO3R—hi!) though. Except for simple logging network, no connections were available between the stations. Had to jump a lot around the spacious shack when moving multi! . . . **A61AJ**. First SO2R attempt with some teething problems. Many thanks to Ivo (ADA) for his help, 5B4AFM for his SO2R box, and 5B4ES for hosting again. . . . **C4W**. We had great fun with our LP MM entry. . . . **C6AKP**. Great contest and a fun time at Ken's place. Got a nice call assigned as C6ARS. Conditions were better in Carib than some other places it seems. Was still hit by Saturday flare, but went stateside and had a 190 hour (best in contest). Had a blast as usual. Sometimes the conditions were too good. Had to QSUY twice just to shake the pile-up which was getting so out of hand it was killing the rate. . . . **C6ARS**.

I decided on single band operation due to the lack of time for adjusting all three monobanders to the CW segments mainly, and because of having not much CW experience in contests as well. This was my first CQWW CW ever. . . . **CE4U**. Thanks to Santos, CT1DVV, and and Tony, CT1ESV, and family for superb hosting! . . . **CT8T**. Never trust just one alarm clock! . . . **CT9M**. After a long time of being QRT it was my first try in the CW part. My K2 with 5 watts into a multiband dipole did a great job. . . . **DF9JZ**. Did not reach my goal, to make 1000 QSOs and/or to catch the German record in this class. Will try next year again! . . . **DL1CW**. A big thank you to the hams of the Guernsey Amateur Radio Society, especially to Ed, GU3SQX, and Phil, GU0SUP, for their help and hospitality. Guernsey is a place that is much too beautiful to go there only from Thursday to Monday with two days of radio in between. I'll be back, but next time for a real holiday—well, maybe with a little pile-up every now and then. . . . **DL2OBF**. What a contest! QRP is simply the best category to participate in. Many thanks to Roger, DL5RBW, who offered me to use his absolutely professional equipment. . . . **DL6DRD**. FB contest! . . . **EU1TM**. Good test. Many DX stations + IOTA islands. . . . **EU6TV**. Just a brief operation from France outside. These times I was also active as G3VQO (checklog attached). Hope it doesn't cause too much confusion. . . . **FG3VQO**.

First entry QRP with my K1. Band-limited: 80/40/20/15m only. QRP is really fun! Not sure I will enter anymore a contest running more than 5W! . . . **FPBL**. The neighbour rang at the door because too much TVI, fortunately during the last 15 minutes of the contest. I am going to fix his problem now. . . . **FM5GU**. A dose of the lurgy prevented anything other than a token entry. Good fun though, and perhaps no one else is foolish enough to enter 40m QRP and I'll get a bit of wallpaper. . . . **G0WAT**. This year I managed to beat the all-time UK record I made in 1992 for this category. . . . **G3KHZ**. Great fun as always. Virtually no signals on LF bands from W and VE at dawn on Saturday morning; rest of day dominated by very strong

short-skip signals from within EU. My points per QSO rate suffered accordingly. . . . **G3NKS**. Very enjoyable. The long path openings to ZL/VK/JA were great. Can't wait for next year. Five watts max. output to an A3S 3-ele. . . . **G4ELZ**. Great fun as usual, but disappointing to be hit by aurora, again! . . . **GM7V**. Could only do one day, but had a good time! . . . **GU3SQX**. Highlight: being called by HI8 for a 7 MHz mult. at 2358Z on Sunday. Lowlight: failing to move the TF double mult. . . . **GW7X**. Slightly over the 15m Asian record. Hope my logs are good! . . . **H2G**. First time that HB9A, the call sign of the union of Swiss radio amateurs USKA, has been used in a CQWW contest M/S. All operators liked this contest very much and would like to do again next year. . . . **HB9A**. It was not too easy to work with DX stations. Maybe next year I can work at my home QTH again, and I try to work with QRP again during CQ to do SSB and CW QRP EU records. Tnx for CQWW! **HG5Z**.

Propagation was very poor on Saturday and only a little better on Sunday. Only the great help of two friends like DL6RAI and DL2NBU helped us to reach a good score. We worked Zone 3 on 10u on Sunday afternoon; that give an idea of the bad propagation. . . . **IQ4A**. Not so great condx and having a cold, I had a nice sleep! Shortest sleep (40 minutes) on SSB and a longest sleep (10 hours) on CW, so 2002 WW was over and now thinking abt 2003. Life's too short. Sleep and excuse should have been short or zero! . . . **JA8RWU**. Never try a new logging program one day before the contest! . . . **KP3Z**. Very strong aurora first day! Great fun in spite of very poor condx on high bands on Saturday. . . . **LY6M**. Wow! Twenty meters opened up to the U.S. on the Sunday evening. Until then I had not worked many U.S. stations. It made a big difference to the final score. Fantastic contest. . . . **M4T**. My first ever go at a CW contest and what a way to dive in—at the deep end. Enjoyed giving a few points away. 100% S&P. Next year perhaps a proper effort. . . . **MW5EPA**. Great experience from Zone 10! . . . **OA4O**. Amazing what 100W to a second-hand trap-GP indoors downtown can work with the help of sunspots. Great ops at PT0F and XT2DX, who heard me sneaking by the pile-up. QRQing instead of going QRS! Also made some contacts QRO and with real antennas. . . . **OE5OHO**. Aurora destroy my dream about good contest! . . . **OG8L**. Poor condx again on Saturday! The recent storm (falling trees) in this area a couple of weeks ago caused damage on my 15m and 160m antennas, so single band LP operation was chosen. Better so, because in any case my fairly modest antennas would not have been sufficient enough to compensate the difficult conditions, as even the "big guns" had problems! . . . **OH2NN**.

Beautiful contest. I was active with my new FT-817 and new antenna. Really beautiful. . . . **OK1IF**. This year I had to cancel IH9P operation because of QRL so I tried 15m with tribander. I was surprised how it worked well! **OL5Y**. The XYL went into the hospital a few days before the contest and had an operation. Hence no visiting guest operators, just low pitch contesting. I wished I had not used the OQ prefix. I've seen me spotted as OZ1T, OY1T, and OK1T. People just don't expect the OQ prefix and are puzzled. Lots of time lost. In total I operated 31.5 hours, and missed all East and Pacific openings. . . . **OQ1T (ON4UN)**. First time ever I made over 1000 QSOs during a single weekend, no CQing only S&P. Happy to give out the special OQ4 prefix. Commemorative QSLs will be sent via the bureau to all those worked. Pse don't forget to send your QSL. . . . **OQ4CAS**. A perfect year for low power. Disturbed conditions were music to my ears. . . . **P4OW**. Well, this was not exactly what I was planning! Study books were open on the desk but not much in use. Just too much fun! Did not want to miss out, so only some slight attempt at studying. Thanks for organizing! . . . **PA3BFH**. Very hard to go on with no more than 70 watts all the time and using second radio, because FT1000MP gone to repair! Anyway, very happy to have HC8N on all six bands! . . . **PY2NY**. I think for they have organized this beautiful contest of high level. . . . **PY3CQ**. Thanks for good contacts to all amateurs of our hobby! . . . **RV3LO**. Every year I like worked in the nice CQWW contest. . . . **RV3YR**. Ham radio is fun, isn't it? . . . **S51JM**. Nice to experience condx reversal from CQWW SSB! . . . **S56A**. First time I work more QSOs second day. . . . **S58A**. First contest with keyboard keying—wonderful! . . . **SM3EAE**. My thanks to Juan, TG9AJR, and Jocelyn, my wonderful hosts! This was a last minute, no preparation DXpedition. All I brought to TG was a paddle and keying interface. Juan supplied the antenna (vertical), xcvr (Yaesu 767GX), and computer. Thanks to XE1KK and N5KO for installing the antenna in September. . . . **TG9AJR**. Some new operators in the team tasted the thrill of big M/S station. Sure they will try again! . . . **TM2Y**. Very very like the WWV contest. . . . **UA0BA**. TNX FB contest. . . . **UA0FAI**. Sorry I was very busy on the first day. Condx were quite good on the second day. . . . **UA9AB**. Very good contest with the balcony antenna. . . . **UA9QCP**. The excitement before and during the contest, the drive that keeps one alert 48 hrs straight, the high-lights like continuous high rates or openings to high density mult areas that were not missed, then the end of it all and instant feeling of deep satisfaction and then joy. I'll be there next time for sure! . . . **UN1LT**. I'm very appreciated



Roland, DK3GI, a member of the Royal Bavarian Contest Team, stands for the national song.

to Sergey, M0SDX, for warm hospitality. . . . **UT3UA**.

First and half second night have a big pile-up! But RX antenna to JA's is broken and PA is flame. Have a very bad weekend. Only 700 QSOs in 13 hours. See you next year. I'll be back and have the best result in SO 80m HP. . . . **UY2UF**. First day of contesting was a disaster thanks to aurora, but the conditions improved a lot on Sunday. Being the only station active from zone 2 resulted in huge pile-ups on Sunday. . . . **VA3NA**. Great way to clean out the cobwebs after 10 years away from CW contesting! Was even more of a blast with 10 watts and a dipole! I'm hooked again! **VE3RSA**. Part-time operation, introduced another ham to the joys of CW contesting. Conditions sounded not so good on Saturday. . . . **VK5GN**. Jet lagged from long overseas trip to discover my friendly power company changed street distribution to 23KV with an S9+20dB noise level. It was still fun. Perhaps they will change their insulators in time for next year's test. . . . **XE1V**. I worked the contest at 29 wpm and was very surprised to find out some few speed demons (45+ wpm) doing endless CQing refusing to QRS. Probably they already had the multiplier, or in some other cases, the autorepeat on. Nevertheless a lot of fun! . . . **XE2AC**. Propagations were good all across the bands for the whole two days plus new radio made contest time a lot of fun! . . . **YB0UNC**. Propagation within Indonesia and South and North America is very good. This contest was hard work. . . . **YE1A**. Our first try with computer real-time logging and operators have to learn how to send code with a keyboard. Have great fun. Even our low band antennas are marginal. HC8N copied us. Lots to learn. . . . **YE1ZTC**. Starting with the contest from small city near Yugoslavian (Kosovo) border. After two hours contest was over because of electricity problems and huge snow storm. I decided for "safe escape" to YU8 land. I hope for more luck next time. All the best for the Contest Committee. . . . **ZAS57AW**. Very pleased with score considering I don't have a beam. Horizontal loop performed really great. I became an expert in retuning the ATU for a quick QSY. . . . **ZC4DW**. Many difficult stations were very well heard here by the south of Brazil. We thanked for the organization and we were in the wait of the accountability of the points. As every scout says, "Be Prepared. . . . **ZX3S (PY3UEB)**. With two radio failures, thunderstorm, and power outage, I think this was a fine score after all. . . . **ZY5A**.

USA QRM

Something was definitely wrong with the 80m antenna! . . . **AA1K**. Lost about one hour Friday night due to local lightning storm. Very rough day Saturday, with high bands all but dead until sunset. Sunday was pretty good but rates were not as good as we had hoped. First CW multi-single from AA5NT. . . . **AA5NT**. As a college student coming home for the Thanksgiving break, I practically just took a contest expedition to my parents' house. Thanks to N8ET, N8ZYL, K8BYUO, and K8BRQS for their help with design and installation of antennas. . . . **AA8UP**. Finished up QRP DXCC. Not as easy as QRO, but lots of fun. . . . **K8CA**. For my first single-band effort, I tried 80m. Highly recommended. You really learn the band when it's all you do for the whole contest! This score represents only the first night. Unfortunately, a family event took top priority for the second night. . . . **K1IR**. Conditions were so bad, I let my wife talk me into quitting the contest and working on projects around the house. I woke up Sunday morning early, turned on the radio, and started running. Wow, conditions were back when I got the tap on the shoulder, "I thought you were gonna work on the house today!" Coldly I switched off the radio. Next time I will keep my mouth shut. Contest weekend is contest weekend, no matter how bad condx seem. . . . **K2NJ**. Indoor antennas in apartment makes it interesting! . . . **K2UR**. First CQWW in 19 years! . . . **K3TC**. Many DX ops have great ears! . . . **K4RV**. 10, 15m dead to Europe Saturday morning! Bad for the left



Carlos, PY2FRW, operating QRP from his "near the water" shack.

coast! Conditions generally poor for most of the test for us "little pistols." Oh, for a beam—and power! . . . **K6CEO**. Lousy, noisy conditions, 25-year-old gear that was tempermental, antenna work that never worked, blew the band switch up on 15m in the amp, a rain storm, poor sleep, and only had time to make about 113 contacts on four bands. Damn, what fun! I can't wait til next year! . . . **K7DD**. Was lots of fun, but it just ain't the Caribbean! Also, you know Saturday was bad when you start working new "mults" and they turn out to be common countries such as France, Italy, Germany, etc! . . . **K7ZUM**. Into every contest's life a few protons must fall. . . . **K9MA**. I wait all year long for the CQWW. QRP contesting doesn't get any better than this! . . . **KA6SGT**. The solar flare Saturday made me check to see if antenna still standing. . . . **KC7UP**. Station KL7Y possible new zone 1 SB 20 record (if I make the log checking cut!). Conditions poor for most of the contest, but great time with friends and beautiful aurora. Thank you to Dan, KL7Y, Chris, KL9A, and Frank, KL7FH! . . . **KL9A (K7NT)**. Wow! Non-contester types just don't know the study in propagation they are missing out on! This was unbelievable. The arctic flutter on 20 was so bad I could almost see ice on the signals! Yet still worked many EUs. Glad 10 recovered from the proton event on Sunday! . . . **KS7T**. Like two different contests! Boy how conditions changed on day 2. Glad I didn't give up. . . . **N1DG**. A personal best for me while operating Single-Op Assisted! Conditions on Sunday excel-

lent! 80 meters proved to be a problem for me on the sloper. Probably need to check it. . . . **N1MD**. Solar flare shut us down Friday night/Saturday morning here above 43 deg lat. Had a lot of fun on Sunday however. . . . **N2WK**. Goals 1K Q's and 1M points. Did both, with margin: 1.8x last year's score. Re last year: 80 and 40 about the same; on high bands, three more mults but ran more and got twice as many QSOs despite solar flare. Flare killed 10 and injured 15 Saturday, but both bursting with EU's Sunday . . . **N3UM**. Solar activity sure made for some strange propagation. Worked 9V1YC from the east, which is 90 degrees from either long or short path. . . . **N4IG**. Saturday conditions made me ponder retirement from the sport. Sunday was the most fun I've ever had in a DX contest. It was neat to have more than enough people to work on Sunday. It was a mad dash to the finish line. I'm finally getting used to using two radios at once. What's next, SO3R? . . . **N4YDU**. This was my third time out in the QRP category and managed to beat last year's score despite challenging conditions the second day. This is my favorite contest of the year and my thanks to CQ for sponsoring it! Thanks also for all the QSOs! . . . **N5TW**. Working SU1ER long path on 40 was great! . . . **N6IC**. The sun god must hate radio contests! Thank God for JA's! . . . **N7DF**. Saturday was a struggle! Sunday was a lot of fun! . . . **N8ET**. Poor band conditions on Saturday. Had to leave early on Saturday due to ARES. Went to ARES weather/tornado spotting. Safety comes first! . . . **N8XP**. Bands lousy on Sunday morning so worked HC8N on 6m with 5 watts! . . . **N9IJ**. Old Sol and local weather sure did in band conditions Fun in spite of poor conditions at outset. The little pistols were only going to S&P anyway. . . . **NE4S**. Thanks to all the great ops who copied my 5 watt signal and thanks to the gang at XT! . . . **NU4B**. QRP is more fun in this event than anyone who hasn't tried it will believe. Of course a three-high stack of TH-7's sure helps. . . . **WBETC**. I know why they call it the balck hole. . . . **W0SLW**. Patience is still a virtue!! Again? . . . **W1AMF**. Had a great time and improved my fist! . . . **W1DAD**. Great contest. Casual operation netted some new countries on 10 using a 30 meter delta loop. . . . **W2BEE**. The worst of times (Saturday) and the best of times (Sunday)! . . . **W4ZV**. Bad thunderstorms on Friday night. Murphy hit me late Friday night and I lost the amp. Conditions poor to fair and the Oklahoma Sooners lost on Saturday. Thank goodness that the Cowboys didn't play Sunday. I still enjoyed the contest. There were a lot of good operators. See you next year. . . . **W5FO**. Neither the propagation nor my score were as good as last year, but it was still a terrific contest for QRP. I worked P3A, 4W6MM, and 5X1Z and got XT2DX on three bands! Wow! . . . **W6RCL**. The sun just didn't want this contest to happen. . . . **W6YJ**. Those VooDoo ops at XT2DX have amazing ears. . . . **W7BX**. Solar flare ruined any chance of a competitive SOAB score. Too bad cuz this mite be the last year of 10m prop for this cycle at least from the NW. . . . **W7GG**. More fun on CW. I wonder what scores would be like without computers. . . . **W7LKG**. It's always nice to greet old friends from around the world. . . . **W8GOC**. The extensive record list that Bob, K3EST, has developed for this contest at the cqww.com website makes it the best contest in the world. Pick the record, and try to beat it! . . . **W8QZA**. Two contests rolled into one 48 hour period. Whether you like prosperity or adversity, this contest had it! . . . **W9RE**. My first contest using electronic logging. Sure helps the score and relieves the chore of dupe checking. As always, lots of fun. . . . **WA4DOU**. Limited time to operate, but amazed at what can be done with 5 watts and an indoor antenna. . . . **WB9MII**. My first CQWW CW. Enjoyed all the fun and frustration! . . . **WD9DZV**.

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Number groups after call letters denote following: Band (A=All), Final Score, Number of QSOs, Zones, and Countries. An asterisk (*) before a call indicates low power. Certificate winners are listed in bold. (All country terminology reflects the DXCC list at the time of the contest.)

SINGLE OPERATOR

NORTH AMERICA

KT1V	A	8,027,304	4110	158	550
K5ZD/1		7,069,788	3496	162	564
K02M/1		6,716,460	3517	155	558
W1KM		6,116,422	3454	146	495
W1WFE		5,266,776	2979	142	504
K1AR		5,060,439	2612	153	524
W1CM		3,984,876	2440	141	455
K1CF		3,072,880	1946	123	445
K5MA/1		2,542,032	1801	122	386
W1FJ		2,274,810	1540	131	442
W1ECT		1,566,402	1421	97	329
W1CSM		1,211,602	894	117	401
K1KD		533,049	599	73	246
W1GF		509,040	518	90	270
W1B1H		456,615	500	85	270
K1GE		414,725	657	67	237
W1AX		276,120	408	77	218
K1LI		250,776	420	63	180
AK1N		224,136	337	81	202
W1CU		206,412	250	85	224
W1ZK		190,800	299	67	173
W1LLU		139,284	263	56	163
K1WV		114,654	221	51	143
N1JW		98,325	213	59	148
N1SV		79,740	232	53	127
K1BD		59,830	162	49	106
W1EL		36,025	113	48	83
K1AVMG		31,878	136	44	94
W1ZT		7,869	51	25	36
K1XX	28	366,749	1017	27	110
W1UK	21	599,610	1371	33	132
W1MK	3.5	284,050	852	20	105
K2LP/1		6,394	59	10	36
AAGT/1		12,390	127	15	44
N1UR	A	1,718,009	1369	108	383
N1WAI	A	1,711,071	1260	103	396
K1SJ		1,389,694	1139	99	355
K1HT		1,354,003	1033	110	359
W1TE		1,102,475	864	110	365
W1EQ		1,078,585	946	91	324
W1AZ		756,480	811	102	332
K1IB		659,945	726	82	273
W1GIZ		646,129	620	90	299
N1DC		644,271	669	88	293
NK3C/1		474,442	567	81	265
K1EP		476,256	549	81	271
W1KT		464,121	483	89	282
W1ST/1		336,980	446	75	215
W1CE		276,458	326	83	249
K1KU		270,580	346	83	249
K1VJ/SJ		224,145	333	70	185
N1DS		218,350	343	74	201
NG1J		197,643	297	67	190
W2SUO/1		155,277	268	62	181
A1ET		152,031	283	50	137
K1SWG		115,232	223	60	148
N1LW		105,774	217	64	119
K1BY		98,289	205	62	139
K1WV		80,460	221	58	122
W1AMF		74,085	172	46	119
K1Y1		71,896	206	59	150
K1VJ		43,605	129	46	89
K1XIE		32,686	123	32	86
W1G1TN		24,625	117	48	77
K1SM		24,057	90	29	70
K1DS		18,172	87	77	77
W1GFC/1		12,540	66	22	41
W1DAD		1,200	24	21	19
KG1V	28	42,583	177	22	75
W1AFCN	14	69,484	280	27	89
A1A1M		1,924	33	15	22
N2NT	A	5,760,576	3243	147	510
N2LT	A	4,354,880	2523	142	478
K2UA		3,913,946	2386	149	492
N2GC		2,346,060	1406	131	479
K2NV		2,142,520	1361	130	450
W2XL		1,510,076	1314	95	324
N2MG		1,445,159	1180	105	332
K2FL		1,238,332	1033	106	339
W2LC		1,207,256	987	116	380
N2MR		1,012,284	893	99	314
W2AYJA		914,914	745	107	350
K2SHZ		745,938	740	90	339
N2CU		555,450	577	91	259
N2TN		539,150	504	97	313
K2EYV		376,920	499	89	262
W2EN		275,362	398	68	194
W2TN		232,673	310	81	220
N2AM		230,251	348	72	187
W200		205,328	406	81	232
W2FUI		64,740	170	48	118
N2VM		33,184	124	37	85
K2BFM		23,968	85	32	80
N2AX	21	251,464	518	35	137
N2WV	14	472,644	1123	38	133
K2XJ	1.8	425,000	942	32	130
W2FO		2,613	43	27	27
W2WC	A	844,282	842	117	321
W2BDVU		780,178	738	99	320
K2SZ		527,040	616	81	279
KM2L		516,810	571	80	242
K2UF		461,745	535	82	249
K2CS		448,301	534	88	255
K2KZE		429,936	502	86	232
W2VY		394,134	476	87	239
K2UR		287,390	403	83	227
K2AW		236,360	395	61	200
W2YSJ		226,736	308	82	214
K2TWI		153,036	307	50	168
W2ZOV		124,605	253	52	143
W2ZEYA		113,870	229	57	136
K2KUE		113,836	235	56	135
W2BWZ		109,890	199	56	153
W2CVO		88,870	164	65	150
W2XS		85,646	162	62	125
K2TV		75,150	197	51	116
K2UG		69,647	232	66	191

*WA2IAU		54,322	147	45	112
*K2DI		53,650	145	57	88
*N2CG		45,087	145	31	82
*W2WZ		42,510	133	40	90
*W2EZ		36,736	202	55	93
*W2UJ		32,136	120	39	82
*K2YLH		28,356	156	47	92
*WA2BMH		20,246	78	36	70
*WB2ZH		18,914	88	27	71
*WB2XO		6,670	46	20	38
*K2EL		6,600	75	32	56
*K2MFY	28	139,384	389	28	124
*WB2ABD		48,776	172	21	83
*K2SJV		43,320	144	19	29
*W2JURSD/EM	21	122,937	505	27	102
*N2BDI		2,100	54	12	38
*KX2S	14	16,745	100	23	62
*W5KJ/2	1.8	187	10	4	7
K3CR	A	4,853,225	2634	155	530
*A1K3		4,429,622	2642	153	493
K3ZD		4,415,784	2556	152	493
K3GN		4,131,000	2383	154	494
W3J		2,120,400	1337	127	443
N3UM		1,336,300	1190	99	316
W3AP		1,071,714	928	115	359
*W3WZ		1,068,077	1002	96	325
N3KR		769,230	700	91	316
W3AZ		643,272	676	98	294
W3BYX		459,959	526	65	268
W3DQ		431,322	463	50	200
K3VA		405,955	501	75	230
K3GW		404,952	443	80	269
N3RJ		363,623	550	83	254
W3KV		310,663	349	74	225
N3Z		266,623	365	84	203
W3RJ		212,787	407	54	159
N3EA		203,196	343	62	174
W2CDQ/3		123,213	257	54	147
K3BTS		106,144	205	61	153
W3DAD		86,848	176	57	127
N3FZ		66,000	171	49	101
W3NO		13,570	150	34	81
W3GT		4,300	69	14	29
W3YH	14	91,791	286	33	108
W3XF	7	320,144	1000	32	104
*W3JUS/3		1,855,880	1270	117	387
*K4CWE/3		1,454,138	1149	118	392
*W3WS		1,303,680	1000	117	368
*N1WR/3		962,760	813	97	329
*N3GJ		890,766	752	101	325
*K3MM		811,946	714	95	342
*W3IUU		627,173	637	89	270
*N3FR		579,493	613	94	273
K1EF/3		555,004	572	78	258
*N3JUS/3		471,128	546	81	248
*K3VJ		417,987	492	88	275
*W3CP		272,570	371	70	211
*W3SES		263,578	385	82	199
*N3GK		220,864	346	57	181
*AO3C/3		166,410	297	56	159
*N3VT		133,556	266	55	138
*K3IE/2		121,380	241	55	149
*W3BEN		57,925	180	55	120
*K3VJ		49,432	138	49	104
*N3LL		40,140	162	37	98
*N3HCN		36,176	141	45	88
*WQ3E		26,243	183	50	113
*K3DSP		20,703	85	36	67
*K3EGE		20,200	99	27	74
*W3CB		7,437	69	29	58
*K3FCV		4,182	70	29	53
*W3VAV		3,020	30	25	30
*W3CGW		2,074	23	15	19
*K3JHT	28	2,940	50	9	26
*N3ST	7	45,100	195	21	79
K4Z	A	4,930,744	2611	158	518
W4AN		4,599,609	2675	144	479
W4FX		2,808,808	1869	139	482
W4RZ		2,656,232	1633	146	461
W4DK		2,442,825	1952	131	394
N2AN/4		2,352,504	1694	118	418
N6AR/4		2,307,816	1720	131	401
K4XJ		2,26			

OH2RA	*	1,927	28	16	25	DF5AU	*	5,460	45	23	42	GU4EON	7	44,968	412	18	70	"YL2GN	"	658,143	1054	92	326	SP8ZBX	*	233,955	1103	31	104
OH2BP	*	231,642	722	32	121	DH7KU	21	387,875	1369	35	110	"*MU0FAL	A	254,535	610	57	182	"YL2PP	"	203,412	579	70	206	"OP: SP5UAF					
OH2FX	*	51,337	170	29	114	DJ7IK	*	238,309	738	35	132	"*GU0SUP	"	17,748	98	32	55	"YL2P2	"	200,511	476	68	229	SP2LJK	*	15,436	183	14	54
OH6AC	21	719,780	1918	35	135	DL4WA	*	206,870	739	29	108	"*GU4YOX	1.8	38,860	607	10	57	"YL2P3	"	110,860	296	70	171	SP9W	7	192,105	1077	27	108
OH4A	14	623,720	1908	35	135	DL9GRE	14	11,661	125	15	46							"YL2TD	"	25,654	234	23	78	"OP: SP9HWN					
OH8L	*	119,440	914	23	57	DH8ZB	7	320,067	1359	35	126	HA3LI	A	1,716,975	1853	122	463	"YL3RW	"	15,458	205	31	100	SP3FYX	*	34,128	437	23	85
OH2BCD	*	100	185	24	61	DH8ZT	7	110,166	353	27	98	HA3PT	A	1,745,025	1214	96	329	"YL3SH	"	2,790	49	15	30	SO2R	3.5	403,368	1778	11	116
OH9HD	7	433,784	1269	36	136	DK5IM	*	76,220	616	21	82	HA3OU	A	365,532	619	87	245	"YL2NK	21	17,424	159	17	55	"OP: SP2FAX					
OH5XL	*	118,720	732	29	117	DL7ON	3.5	152,181	1092	23	88	H8GW	A	310,590	585	73	182	"YL2BJ	14	101,626	561	27	92	SP3KEY	*	183,260	1269	21	98
OH3WV	*	71,956	294	28	106	DJ0MDR	*	215,325	1153	27	108	HA8BE	A	78,715	818	14	77	"*HB0/DK3OD	A	1,047,744	1660	89	319	"OP: SP3HRN					
OH28MH	3.5	271,998	1233	30	116	DL1LH	*	146,300	1041	18	92	HA1A	28	296,672	1182	35	92	"*HB0/DJ0IP	A	356,095	866	70	241	SP3GTS	*	116,844	822	20	87
OH3XR	*	158,510	1107	27	94	DL1WC	*	63,911	859	13	66	HG5C	*	284,214	1149	33	101	LIECHTENSTEIN						SP9XCN	*	73,036	861	20	66
OH7N	*	63,731	672	20	81	DJ1CW	*	35,847	501	10	53	HA3MN	*	170,226	521	33	114	"*HA1YA	A	1,047,744	1660	89	319	SO2HEB	*	36,080	410	14	66
OH2BEC	*	42	6	2	5	DJ1JW	*	18,792	262	9	53	HA8UH	*	1,196	54	17	29	"*HA1YA	A	356,095	866	70	241	SP9DX	*	15,300	295	8	43
OH3RR	1.8	3,350	50	2	3	DK9IP	1.8	26,520	372	8	57	HA3MH	*	170,226	521	33	114	LITHUANIA						SP9DNO	*	9,222	171	10	48
OH4R	A	1,949,516	180	128	463	DK7TZ	*	5,405	123	6	41	HA8UH	*	1,196	54	17	29	"*L461A60	A	1,461,460	1174	146	569	SP8GNE	*	1,820	72	5	30
OH4TY	*	506,022	867	82	292	"DL1AO	A	3,097,332	2704	131	481	HA8RH	21	349,448	1139	34	118	LY1XC	A	1,461,460	1174	146	569	SP6AEG	1.8	35	4	3	4
OH6OS	*	262,626	600	71	202	"DL20BF	A	2,265,088	2259	111	442	HA8RH	21	349,448	1139	34	118	LY2HM	A	917,412	977	112	422	"*SP4ZO	A	1,978,704	2190	113	433
OH2EV	*	196,800	511	57	189	"DK5PD	*	2,100,756	1780	126	497	HA8A	7	473,838	1741	32	119	LY2MM	A	694,937	817	919	340	"*SP9NS/W7	*	869,892	1284	95	331
OH6RC	*	162,600	332	71	221	"DL5RMH	*	1,185,228	1465	96	342	HA8A	7	194,400	874	31	119	LY2OO	A	291,696	672	71	238	"*SP3PL	*	808,980	1001	104	381
OH2LO	*	138,595	394	57	208	"DL5YVM	*	1,129,500	1436	102	400	HG9M	3.5	82,296	1008	14	67	LY2OX	28	334,324	951	34	132	"*SP1AEN	*	749,280	1052	91	329
OH3IR	*	105,840	308	56	154	"DL3BFA	*	722,304	1119	63	313	HA8IB	1.8	48,807	727	16	71	LY2OY	7	100,720	613	36	91	"*SP3VT	*	719,186	1234	82	316
OH7FM	*	83,349	347	45	147	"DK7ZH	*	346,696	606	74	213	"*HA9RP	A	48,807	727	16	71	LY2B1	7	49,565	199	23	82	"*SP2PWC	*	688,444	959	87	349
OH3KOK	*	42,645	199	12	103	"DL3NSM	*	551,478	1147	78	243	"*HAGIAM	A	561,528	1965	89	307	LY2B2	3.5	207,888	1271	27	95	"*SP8FMU	*	589,780	111	85	285
OH6MBO	*	35,916	253	34	112	"DL3JMF	*	510,000	876	76	264	"*HABAR	A	277,020	789	65	178	LY2B3	3.5	207,888	1271	27	95	"*SP9FI	*	554,250	997	80	295
OH1AL	*	22,108	126	34	76	"DL3MDF	*	455,544	739	76	257	"*HAFQ9	A	217,120	453	65	171	LY2B4	3.5	207,888	1271	27	95	"*SP8BVN	*	533,902	909	84	299
OH1WR	*	3,314	34	26	35	"DF3QG	*	439,460	657	88	277	"*HABIC	A	137,100	451	71	229	"*L77Z	A	3,976,576	3183	147	614	"*SP6LV	*	496,252	909	82	306
OH2HMB	*	329	34	18	29	"DL2FDL	*	435,183	1314	91	266	"*HABIC	A	100,282	341	39	94	"*OP: LY2TA						"*SP3DK	*	439,668	765	80	244
OH1VR	*	100	13	13	13	"DLTXUG	*	428,180	767	70	246	"*HABH	21	412,160	1315	33	127	"*L9YA	"	2,649,402	2615	129	473	"*SQ9BZ	*	425,385	707	86	259
OH7YN	*	100	163	30	86	"DL3WJF	*	321,160	751	67	240	"*HABH	21	412,160	1315	33	127	"*LY2TE	"	577,647	1122	88	283	"*SP3HC	*	311,880	698	64	212
OH7YM	28	232,680	698	33	135	"DL3KWF	*	319,361	684	74	227	"*HABH	21	412,160	1315	33	127	"*LY2TB	"	554,166	961	66	240	"*SP9GKM	*	303,003	556	61	196
OH6BG	*	121,095	165	30	105	"DF2ZH	*	278,748	585	64	203	"*HABH	21	412,160	1315	33	127	"*LY2TF	"	518,940	949	82	290	"*SP7VC	*	280,140	541	40	206
OH3TY	*	104,400	337	28	116	"DL3ABM	*	262,432	515	69	209	TF3MM	A	17,052	166	19	79	"*LY2TG	"	172,125	487	55	200	"*SP2DI	*	274,274	696	66	208
OH2BNX	*	15,688	112	19	57	"DL3BZ	*	196,528	398	78	246	TF3JA	21	463,986	2224	30	106	"*LY2TH	"	100,667	271	57	140	"*SP5AT	*	269,244	435	87	190
OH2BPA	7	30,336	302	19	73	"DL4HWI	*	191,958	339	72	209	"*TF3GB	A	460,556	1303	60	192	"*LY2TI	"	52,530	227	39	131	"*SP9FT	*	207,399	490	67	202
OH4ML	3.5	2,530	54	7	39	"DF6LQ	*	188,384	461	56	168	"*TF8SM	A	182,676	765	42	114	"*LY2TJ	"	51,168	214	26	78	"*SQ9MZ	*	200,282	490	60	179
						"DL2DBS	*	185,460	493	48	172	"*TF3AO	A	3,248	51	17	39	"*LY2TL	"	5,734	87	15	32	"*SP9MRQ	*	179,550	527	61	203
						"DL1IA	*	180,810	300	83	204							"*LY2TM	"	14,841	297	7	44	"*SP9SU	*	176,358	433	55	189
						"DK3AA	*	178,064	492	61	187	EL4BZ	A	1,913,512	2542	95	329	"*OP: LY2BM						"*SP6ES	*	155,033	692	61	162
						"DK3WA	*	163,432	393	56	192	"E1ACF	A	304,480	374	55	165	"*LY2WV	1.8	41,554	514	13	66	"*SP6ES	*	118,800	536	51	160
						"DL1TH	*	142,428	617	62	187	"E1SDI	A	58,955	395	16	49	"*LY2WV	1.8	41,554	514	13	66	"*SP4BOS	*	100,858	386	52	162
						"DL3JON	*	141,687	291	68	205							LUXEMBOURG						"*SQ9ZM	*	100,000	295	57	143
						"DL7IZ	*	139,738	274	71	147	MD6V	28	444,091	1779	33	118	"*LX1NO	A	1,813	30	15	22	"*SP3CNP	*	96,288	262	62	142
						"DL3CD	*	138,990	387	58	168							MACEDONIA						"*SP6CZ	*	95,976	331	90	254
						"DJ5IR	*	138,545	461	51	178							"Z32XX	A	2,735,874	2904	126	432	"*SQ9DXN	*	93,765	283	96	169
						"DL2RTJ	*	129,600	416	50	142							"Z31M	3.5	130	14	6	9	"*SP5ASY	*	89,014	247	70	144
						"DL3BVG	*	123,966	343	57	156							"Z35E	A	6,820	31	40	115	"*SP8EY	*	86,106	325	30	97
						"DL2KWR	*	109,590	260	62	133							"Z36W	28	463,680	1501	34	127	"*SP3OL	*	84,362	283	41	137
						"DL3KVV	*	107,352	372	53	163							"Z37M	7	75,520	680	18	62	"*SP1EUG	*	86,106	325	30	97
						"DKHNF	*	99,994	359	52	171							"Z38F	1.8	51,170	730	10	60	"*SP6BEN	*	83,653	209	62	158
						"DL1INL	*	74,354	51	125	IK3UNA	A	1,525,160	1890	118	337	ISLE OF MAN						"*SP9LAS	*	70,870	261	46	144	
						"DJ3GE	*	69,580	253	49	111							ITALY						"*SP3DF	*	60,876	212	63	118
						"DL3SAJ	*	64,960	243	49	111							"I42ZH	"	701,895	992	91	274	"*SP4COU	*	57,760	229	49	111
						"DL2AL	*	59,388	199	46	101							"IK2UC	"	555,940	1036	78	230	"*SP1DPA	*	53,048	140	56	96

R29IB	172,020	452	49	134	JO1NGT	117,513	507	28	71	WK2G	1,029,170	817	110	375	K8AL	2,142,288	1198	158	526	EUROPE						
PA0ADT	163,755	460	50	168	SM5GNS	108,855	446	29	94	W2YK	987,390	748	116	412	N8RA	1,226,624	861	110	408	AUSTRIA						
G4DXD	158,840	483	47	162	W2KA	862,679	694	116	363	W2QA	862,679	694	116	363	ND55/8	978,663	654	135	474	OE8CIO	1,174,675	1570	111	364		
UX8IX	157,722	569	68	203	7K4QCK	106,193	414	30	73	N2CQ	773,800	681	94	330	N8KM	488,756	425	111	325	OE1EMS	198,550	500	68	207		
W8VE	157,300	299	65	155						W2LE	771,525	707	88	317	AA8LL	458,451	473	110	289	OE2S	488,788	1328	36	142		
N8IE	146,376	373	63	165	DR5A	105,492	584	28	90	N2NI	739,389	609	95	316	W8ZA	256,366	348	64	207	OE3KZ	176,932	818	32	110		
RV9COI	134,787	313	48	131	YL6HW	104,394	485	29	84	N1JP/2	725,322	746	94	348	K1BZ	212,280	322	77	213	OE5HO	401,605	1520	34	121		
AA1CA	111,243	233	34	103	SM4GG	92,619	366	28	95	N2DQ	620,924	689	94	359	N8RA/8	92,800	185	60	159	BELARUS						
ON7CC	106,375	398	50	135	SP4GFS	91,086	355	25	89	K4DZ	608,317	589	92	309	K8VC	78,804	165	56	143	EU1AZ	116,964	648	24	90		
EA1GT	99,384	372	43	121	ZS6DX	84,840	502	28	100	K2OWE	601,867	580	113	384	K8LN	49,518	147	37	94	BELGIUM						
Y04AAC	95,500	291	48	143	I1BAY	84,400	502	28	100	K2XF	490,842	463	91	316	K8MV	79,728	267	29	103	ON4PU	161,797	712	29	108		
RP4ASB	91,010	404	40	150	9A3GU	64,944	367	26	73	W6XR/2	329,300	364	86	270	W8TOP	236	112	20	39	BOSNIA-HERZEGOVINA						
					US9QA	60,170	275	27	83	NY6DX/2	328,848	404	93	279						CROATIA						
F5C8Q	90,582	401	44	142	ES1CR	53,848	305	26	80	W2RD	252,395	280	96	257	K9UQN	860,924	769	96	308	9A5Y	656,238	1649	35	148		
SM0BL	88,896	327	45	147	G2HLU	37,380	260	22	67	KE2SD	203,632	362	63	223	W9V9	706,288	534	116	380	CZECH REPUBLIC						
SP3BL	88,146	327	43	125	P4GJED	15,675	127	17	49	N1RM/2	175,828	268	61	165	W9OL	637,200	694	90	310	OK2FD	3,081,045	1992	158	631		
G1M4HF	85,680	317	34	86	J1BYX	13,300	97	21	29	WK2H	174,150	311	48	167	K9NR	83,348	783	120	332	OK1FDY	1,769,482	2159	110	428		
SP9IBJ	83,817	290	48	153	SP8AQA	12,804	153	18	48	KD2HE	147,356	307	48	149	K9NR	51,560	570	112	294	OK1FPG	734,400	1107	84	348		
G4AFU	80,660	306	41	107	TF3MA	12,480	125	17	48	N2VW	138,500	253	72	178	N2BJ/9	424,951	392	92	317	OK1DG	384,146	693	75	272		
SM5DO	80,640	290	48	176	G8MLVI	11,651	127	16	45	N2FF	74,613	191	54	133	K9IMM	267,630	336	79	251	OK2ZJ	379,830	700	75	255		
WB6BWZ/4	74,476	197	57	115	R9WR9W	10,783	117	7	34	N2KPB	64,152	187	63	180	KF9YR	154,365	249	67	184	OK2ZC	376,798	848	69	224		
F8BDQ	72,480	340	38	113	OZ7BO	9,570	81	15	40	W2RDS	32,128	99	39	89	NF9V	151,840	262	57	151	OK1DVM	196,053	702	33	110		
W6RCL	63,650	188	59	75	RV3D9T	3,977	62	8	33					A19T	131,376	207	82	190	ENGLAND							
L4781	63,070	280	38	132	JA7JFN	3,700	48	15	22	W2UP/3	7,171,760	3291	162	623	N8NK	87,526	197	53	161	M2D	70,875	797	12	69		
DL1ARJ	56,540	278	44	104	DL3XU	4,488	237	48	33	K3P3	6,046,180	1615	146	537	N8OR	56,885	153	54	101	EUROPEAN RUSSIA						
HB9VA/3SB	52,197	351	37	91	CC3CJN	2,016	46	9	27	N3AM	3,046,180	1615	146	537	AE9B/0	83,348	783	120	332	RK3WWA	815,184	1356	100	332		
K4FB	50,544	152	46	110	JO7EGJ/1	532	16	7	12	W3JV	3,002,167	1712	137	506	KM9M	22,990	84	41	69	RN3AY	765,375	1109	108	363		
US0YA	46,508	119	55	99	G2YZA	14	364,378	1490	28	91	N3AM	12,276	362	1376	137	462	K9K9EG	1,232	83	36	61	RJ8AT	215,160	506	69	195
N2JNZ	45,353	151	37	96	KH6/W8QZA	129,500	453	32	68	W3GG	2,354,669	1531	128	471	N9SE	105,570	297	35	118	RK3DH	203,964	97	44	80		
G0NIG	43,792	249	29	90	SM3C	118,400	549	27	101	K3ND	1,973,609	1121	134	515	N9AU	138,320	338	33	119	R6LBS	195,888	853	31	128		
NB9DCL	40,320	254	43	97						K3MD	1,955,250	1404	120	430						R823OU	57,333	580	15	72		
H07X	40,278	173	57	90						(Op: SM5CCT)	1,817,554	1590	108	317	K1UCW/0	1,623,680	1125	148	442	OH610	2,748,466	2009	133	525		
F5VBT	38,766	276	28	114	G3LHJ	77,164	491	22	79	K3PP	1,619,815	938	140	515	N8AT	1,143,360	773	139	437	OH62U	695,510	882	99	344		
L24AE	38,514	187	36	95	OK1IF	70,200	467	27	81	N3NA	1,565,780	1022	134	429	AE9B/0	83,348	783	120	332	OH4RH	215,337	345	103	288		
F51QJ	37,772	284	28	105	F1K5W	36,024	197	19	60	W3WV	1,457,832	1059	116	440	NS1N/0	661,478	646	123	331	OH1XT	98,040	279	59	113		
PA1MMV	37,200	244	30	90	US3QW	34,443	291	20	69	WT3W	1,457,832	1059	116	440	NOHJZ	388,988	376	104	284	OH1MM	68,012	197	54	142		
L55DR	34,668	159	43	65	DL8WJ	23,100	242	16	59	K3NM	1,294,947	830	136	521	AK0M	363,912	412	106	284	OH6JN	223,468	772	34	127		
					(Op: LW5DR)	21,301	251	16	59	K3CP	1,078,858	738	121	409	K0IR	357,780	420	93	242	OH2B0	27,141	304	14	69		
MM3BRR	34,126	159	34	117	K4NVJ	19,684	101	22	52	NN3Q	1,051,899	797	112	409	K4IU/0	212,598	318	92	187	OH3BU	15,000	225	8	52		
DL17AXM	32,718	152	23	100	EA6BB	16,072	228	19	63	K3NZ	971,633	952	97	306	K0XH	184,800	268	80	184	FRANCE						
DK4CU	32,240	215	28	106	LUT7HE	12,246	142	14	25	W3GK	960,076	781	119	362	W0TT	162,840	281	69	167	F8FFM	623,290	775	93	304		
K4BKX	31,811	103	44	79	SM5AP1	10,974	119	16	46	N3ZA	933,014	624	128	445	KTOR	143,040	242	69	171	F5VHJ	215,337	345	103	288		
VE3WZ	30,625	102	43	82	VE3IGJ	9,061	133	17	24	W6CQ	867,690	726	123	343	K0BX	135,273	250	60	141	F5R8G	205,662	544	57	170		
ON5PV	28,798	191	34	86	N5LJ	3,936	37	15	26	W3OV	862,638	851	87	312	K0PC	97,800	192	55	145	DL6FBL	5,338,898	3020	165	673		
JN2FSE	26,429	108	46	61	ON7SS	3,872	93	8	36	W3CF	662,268	631	96	362	K0JK	79,170	225	67	110	DK3GI	4,264,875	2712	157	608		
JA2DNA	25,500	147	32	53	SM6AHU	2,232	61	28	36	W3G0	636,660	713	72	252	WG0M	40,581	132	57	110	F3FCB	4,138,046	2575	156	631		
K0UE	23,387	117	38	53	HB9LDO	1,650	33	8	22	AD8J/3	614,231	620	96	293	W4ZMNO/0	18,909	96	38	61	DJ2YA	2,730,660	1747	144	564		
OZ6XR	23,280	199	32	88	RN3QR	1,419	63	8	35	N3MK	562,010	500	90	340	W0AMT	9,720	68	35	46	DL7CX	2,638,387	1639	149	612		
OE1AZU	20,979	137	37	74	W5EB	1,305	22	11	18	W3IO	557,648	596	83	281	W0MN	6,106	71	32	39	DL5JS	1,000,663	1239	94	339		
DL2WRJ	19,380	162	29	85	J8LAD	504	18	9	12	K3SIV	480,320	497	97	283	W0MV	2,205	26	19	26	DF92P	567,480	1000	35	138		
K0KL	18,556	118	33	35	LJ2BDZ	208	11	8	6	HA6G/3	385,818	402	78	426	W0VJ	2,014	23	16	27	DL4CF	252,868	1108	33	121		
W2BJW	17,115	88	37	68	G74A	7	402,930	1516	26	95	W3ZZ	342,304	457	85	219	AC0X	280	8			DL26G	58,028	657	12	72	
DL6UAM	16,756	152	16	43						W3HV0	302,289	365	97	240	N8RA	190,224	529	34	110	GERMANY						
T940M	15,747	156	21	66	RU6FA	55,539	391	22	77	K3JG	216,440	292	63	217					OH6N2	223,468	772	34	127			
K4GT	15,066	75	38	55	RX6LDK	51,800	415	20	80	W3IZ	174,825	288	69	170	BARBADOS	157,550	332	66	164	DL6KAC	5,338,898	3020	165	673		
JK8NBL	14,892	90	25	43	OH7FF	45,172	316	20	72	NY3C	154,784	258	55	169					OH6JN	223,468	772	34	127			
F5NLX	13,888	123	21	43	OK1IR	38,359	317	15	74	K3AT0	130,530	260	69	160	VE1OP	1,806,558	1546	106	388	DL6AC	4,264,875	2712	156	631		
G71YA	12,354	108	21	37	I3MLU	26,149	255	16	63	W3FG	102,600	206	55	135	VO1TA	745,292	998	69	227	F5R8G	205,662	544	57	170		
					(Op: W6NS)	25,240	304	14	66	W3VFT	69,597	182	51	135	VE3NEA	247,234	401	55	202	DL6LNC						

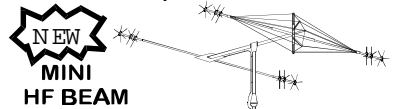
POLAND			
SQ6Z	4,944,951	3844	157
SP0PZK	648,372	898	95
SP9KRT	596,068	1185	96
SP8YCB	123,760	417	60
SP6KFA	110,160	463	37
SP2KDS	32,025	150	35
SP3KPN	712	25	11
SLOVAK REPUBLIC			
OM7M	7,775,040	4625	181
OM8M	6,543,370	4155	169
OM3KHO	1,182,960	1638	94
SLOVENIA			
S59ABC	2,046,380	2510	122
SPAIN			
EA5HQ	2,777,720	3202	107
EA2URD	1,605,660	2263	97
ED2JJ	376,869	1204	59
EA1FBB	30,800	186	47
SWEDEN			
SK3W	8,226,516	4433	178
SL2ZA	549,080	963	83
SWITZERLAND			
HB9CRV	1,871,932	2762	105
HB9OK	581,100	1381	73
UKRAINE			
EN7Z	4,157,576	3557	156
UT7L	3,661,852	3048	160
UR4IZA	1,703,844	2032	123
US0Q	1,499,005	1868	112
UR4LWY	297,501	480	90
UZ4E	149,150	409	53
UR4MWU	60,152	323	43
UR4PWC	42,614	198	42
UUSA	26,412	198	19
YUGOSLAVIA			
4N1N	1,651,056	2517	110
YU1ANT	146,050	685	29
OCEANIA			
EAST MALAYSIA			
9M6A	1,135,260	1636	112
SOUTH AMERICA			
ARGENTINA			
AY1DZ	3,270,945	2743	113
AY8XW	585,178	1758	35
BRAZIL			
PP2CW	178,704	374	71
PY3MHZ	12,096	166	12
SOUTH SHETLAND ISLANDS			
R1ANF	1,796,708	2189	96
MULTI-OPERATOR TWO TRANSMITTER NORTH AMERICA UNITED STATES			
K0TV/1	3,082,379	1781	149
N1RR	1,971,333	1371	134
W1SRG	1,351,566	1157	114
W1NR	799,638	624	112
N2NU	7,968,972	3914	167
N3RS	9,291,537	4377	174
K4JA	14,084,994	5748	182
N4WW	7,020,125	3576	168
N4RV	6,426,765	3174	161
N4TO	5,791,575	3154	164
K4EA	5,228,844	2683	166
W60AT	2,495,740	1666	156
N7MH/6	2,405,634	1597	153
N7GK	1,863,868	1556	144
K6CEO	52,124	162	64
W8AV	6,177,600	3029	168
K8LX	6,067,320	3135	158
N8NI	6,112,884	3244	171
C6AKP	2,040,324	2810	100
VE1JF	9,889,101	6128	148
VE3DC	5,055,608	3395	144
DOMINICA			
J75A	13,051,120	8572	144
U.S. VIRGIN ISLANDS			
WP2Z	13,719,544	8233	151
AFRICA			
GAMBIA			
C53M	21,161,637	10774	167
MADEIRA ISLANDS			
CT9L	20,941,492	9192	162
TUNISIA			
3V8BB	22,702,797	10549	171
ASIA			
ASIATIC RUSSIA			
RK9CWV	7,200,208	3848	156
RK0AYB	6,600,559	4595	156
KUWAIT			
9K9X	9,520,140	5934	148
UNITED ARAB EMIRATES			
A61AJ	24,384,292	10505	194
EUROPE			
ALBANIA			
ZA1B	7,956,520	7984	142



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BALEARIC ISLANDS			
EA6/DL1GGT	1,966,914	3894	93
EUROPEAN RUSSIA			
RU1A	14,817,880	7811	194
FRANCE			
TMSHV	20,564	393	49
GERMANY			
DA0FF	4,105,075	3099	148
DLOKF	2,379,666	2614	122
HUNGARY			
HG6N	10,580,810	6886	178
KALININGRAD			
RW2F	14,122,368	8132	189
LITHUANIA			
LY1YK	5,963,078	4779	167
LUXEMBOURG			
LX5A	11,072,448	7785	160
NORTHERN IRELAND			
GI5W	12,185,760	8381	165
POLAND			
S06Y	1,661,688	1995	125
SWEDEN			
SK0X	2,755,585	3525	129
UKRAINE			
UU7J	6,436,200	5231	177
OCEANIA			
GUAM			
AH2R	11,311,266	6390	171
NEW ZEALAND			
ZL6QH	8,753,363	5908	147
SOUTH AMERICA			
ARGENTINA			
LT1F	8,621,878	6017	142
LT4O	633,290	1112	78
BRAZIL			
PY2TEL	304,848	1036	47
PARAGUAY			
ZP6T	7,656,656	5200	138
MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA UNITED STATES			
KC1XX	19,499,520	7678	194
W3LPL	17,219,015	7264	189
N2RM	14,162,176	6135	181
NY4A	13,013,729	6048	175
K9NS	12,647,245	5551	195
K1TTT	9,411,944	4081	169
N1IX	8,785,840	4691	165
W3PP	8,766,506	4204	172
KB1H	8,612,217	4417	160
K8CC	8,520,784	4137	180
W4MYA	8,452,864	4109	176
N3AD	8,447,780	4322	169
K2LE	8,415,651	4139	163
K8RF	8,310,831	4082	187
K5G0	7,012,717	3793	177
W0AIH	6,049,458	3207	170
N6AW	5,580,582	3031	177
K3II	3,670,272	2150	149
W2YC	2,780,373	1560	151
AK3Z	2,077,714	1495	130
K3DI	2,063,036	1253	136
CANADA			
VE3QRD	131,334	476	56
GRENADA			
J3A	20,150,950	11763	166
AFRICA			
BURKINA FASO			
XT2DX	35,221,070	14839	180
CANARY ISLANDS			
EA8ZS	51,429,675	17175	202
ASIA			
JAPAN			
JASBJC	11,911,692	6179	187
JA3YBK	9,436,875	5064	179
EUROPE			
CROATIA			
9A1A	17,255,246	10875	193
CZECH REPUBLIC			
DL5T	6,695,024	5005	154
OK7K	1,398,782	1937	99
DENMARK			
OZ5W	4,862,211	3405	147
OZ0XX	4,471,768	4697	138
FINLAND			
OH2K	1,585,490	1956	105
GERMANY			
DF0HQ	16,336,230	9498	189
LITHUANIA			
LY7A	9,854,838	7232	172
POLAND			
SN4L	3,183,831	3632	136
SCOTLAND			
GM7V	10,353,582	8180	162
SOUTH AMERICA			
BRAZIL			
PT5A	28,634,736	12368	186
GALAPAGOS ISLANDS			
HC8N	42,449,346	16361	194
NETHERLANDS ANTILLES			
PJ2T	21,171,234	10685	164

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