

Results of the 2000 CQ WW DX SSB Contest

BY BOB COX,* K3EST

The year was 2000 and it was time for the 53rd annual CQ WW DX SSB Contest. From all over the planet, contesters prepared for the starting bell.

The bands were wide open and the sunspots were high. Over 30,000 contesters with varying degrees of skill and experience would make contacts in the 2000 contest. It began with record-setting conditions on 40 through 10 meters. The high bands were open long and deep into the night. The race was on for everyone to increase their personal-best score. After 24 hours it was apparent that many of the high-score goals that had been set might have a chance of being realized.

Only 160 meters provided a harbinger of what Sunday would bring. One-sixty was almost completely closed from the U.S. to Europe the whole weekend. On late Saturday night solar flares hit the earth and conditions dropped considerably. However, one entrant's reduced conditions is another's increased opportunity. The major activity switched from east-west to more north-south. In one 48-hour period the best conditions and poor conditions made for a fun, challenging contest. When all the submissions were tallied, there were about 4000 from 175 countries! Whether you had a small log or a world-winning log, here in the published results, you can see how you did and make plans for the 2001 CQ WW contests.

All Band

Sitting in the mists of an ancient mountain volcano on San Cristobal island of HC8 is a station

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that was built up from nothing a few years ago. Now after much hard work by a dedicated core of ops, the HC8 mega-station has emerged. Far away in Fresno, California, Rich, N6KT, had spent many hours poring over his past HC8A logs and devising a game plan to win the CQ WW SSB. Arriving a week early to make sure all was okay at HC8A, he quickly passed out QSOs to gather information about band conditions. His hard work paid off, as Rich scored 18+ million points and took top world honors.

Using the approaching long northern nights of Finland to best advantage, Pekka, OH1RY, had been busy planning last-minute repairs to EA8AH, where he would operate for the contest. Located on a promontory with water in all important directions, the EA8AH station is located in a windowless room of a water processing plant. This station has been the location of top-scoring contesters for many years. In the 2000 WW SSB Pekka, EA8AH, took world second place.

It seems that islands were the place to be. The contest saw eight of the top world scorers operating from an island. You cannot get farther from an island, figuratively speaking, than Kansas. That is where Tom, W2SC (8P1A), jumped on a plane, ending up in Barbados. Aside from being a beautiful place, Barbados is also a great place to hear radio signals. Tom put 8P1A into lots of logs, taking third place world.

Another world traveler, José, CT1BOH, was looking for something a little different. He contacted another island mega-station, KH7R, and soon was making plans for an Oceania effort. Oceania is a tough place from which to do well on a worldwide level. When conditions are good, you are off the back or side of all NA/JA beams and Europe is far away. None of these

obstacles seem to have bothered José, who as KH7R talked his way to fourth place world and a new Oceania record.

In the U.S., Bob, KQ2M, has been building up his station to its present level over many years—first wires and now he has Yagis. With his station he talked his way to the #1 position in the U.S. Following in second place was Potomac Valley Radio Club member Ken, K4ZW, located in Stafford, northern Virginia. What a fine debut into the top three. Third place U.S. went to Steve, N2IC, operating from W4AN's QTH in Georgia.

The top three European scores were all from OH0/OH. Coming out on top was Ari, OH1EH, operating from the OH0Z station. The name of the game has always been Qs, Qs, Qs. Ari sure concentrated on putting them in his log, finishing over a 1000 Qs ahead of the second-place score, which was turned in by OH0BH operated by Ilkka, OH1WZ. Ilkka had 101 more mults than the first-place finisher. Third place went to OH2BH operated by Timo, OH1NOA.

Low Power

Low power is the most popular category. Each year it attracts more and more participants eager to see how they will stack up against others using only 100 watts. Many entrants have commented on how well one can do with only 100 watts. Just like all other power categories, how well you do depends on where your QTH is located, how good your antennas are, and your personal skill level.

This year the world top score was made by Robert, W5AJ, operating P40P. His score was not only good enough to win the trophy, it set a new low power record. Not far behind, also



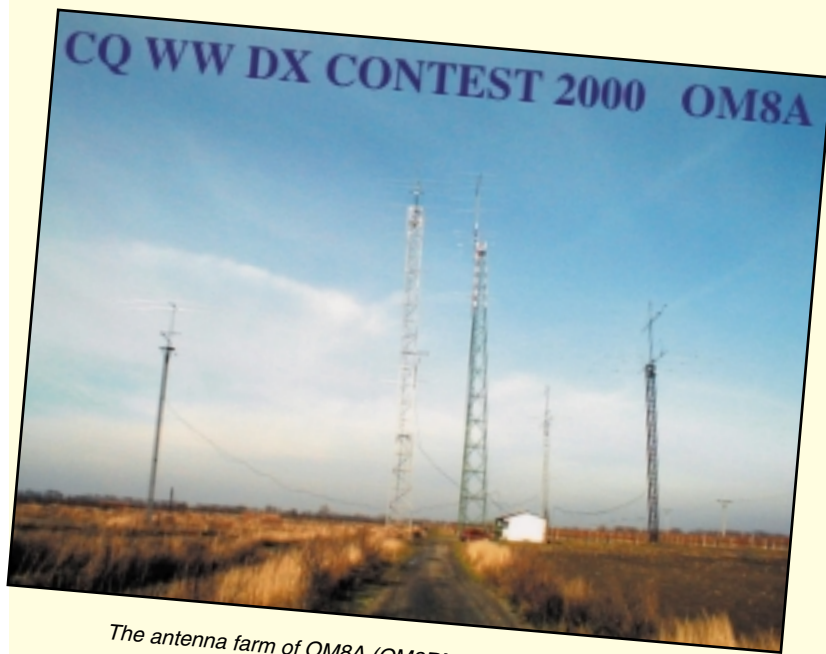
P40A (KK9A op), #1 world 14 MHz.



HC8A (N6KT op), #1 world Single Op, All Band.



NT4TT operated multi-single from the QTH of Joe, N4ZIQ. Shown left to right at the breakfast table are Blake, N4GI; Tom, KC4SSN; Joe, NR7Z; and Leo Reilly.



The antenna farm of OM8A (OM3RM op), #4 Europe All Band.

breaking the old record and setting a new African record, was SU9ZZ. Jaro usually can be found high in the band handing out double multipliers to the deserving. Third place in the world was Emily, P43E. Emily also won the YL world high score trophy.

In Europe, Steve, GW4BLE, decided that after years of high power finishes he would try his hand at low power. Steve certainly made the right decision. He finished #1 in Europe and set a new European low power record, no easy task. Second place went to a station located farther to the east, where Bogdan, SP3RBR, operated SQ6Z. Third place went to Valentin, S53EA.

In the U.S., Jeff, K1ZM, not only took first place, he also managed to set a new U.S. low power record in doing so. Second place went to Charles, NF4A, putting his station in the Florida panhandle to good use. Third place went to K8PO/6 (a great job!).

QRP

QRPer are a dedicated group. Their contest operation is different from that of their low and high power friends. It consists of patience and choosing the right moment to work someone. Searching and pouncing is a way of life to a

QRPer. S&Ping is a very good way to learn about conditions, your own skills, and tuning.

The 2000 contest attracted 129 entrants to this tough category. John, P40W (W2GD), went to Aruba with the intention of trying to break the QRP world record. He succeeded by nearly 2 million points, raising the world record to 5.09 million—quite an accomplishment. Putting Puerto Rico on the QRP map by setting a new North American QRP record and finishing in second place world was Tony, KP4KE. Third place world and #1 U.S. went to the new U.S. QRP record holder, Doug, KR2Q. This is not an unfamiliar place for this long-time QRPer.

To make 1 million points from the U.S. east coast is tough, but from the west coast it is herculean. That was the score turned in by John, N6MU, #2 U.S. and #5 world. A special mention must be made of the fine job done by Rich, N0HJZ, from the black hole—#3 U.S. and #10 world. First place in Europe and #4 world went to the fine effort of Gerard, F5BEG. He was followed in second place by Danius, LY1DT, and third place Phil, ON/N00KE, at the QTH of ON4IZ. The #1 Japanese score was achieved by Masayoshi, JR4DAH, who set a new JA QRP record. A long way from QSOs, LU1VK turned in a FB effort in spite of QRN.

Assisted

Winning a world category is no easy task. Winning it from A61AJ is a real accomplishment. That is what Frank, DL2CC, did on his way to setting a new Asian assisted record. Taking the 6 hour trip to the U.A.E., Frank put the Dubai internet connection to good use. Second place world and #1 Europe went to OT0T operated by Mark, ON4MA, at ON4UN's QTH. The next three world positions went to U.S. stations. At the top of the U.S. assisted list was K11G, who edged out Charles, K3WW, #2 U.S., and Noah, K2NG. Finishing #2 in Europe was YT7R operated by Robert, YU7BW, while third place Europe went to Andy, F6GYT, operating F6KRC. Special mention should be made of the efforts of JJ3ZZE and BA4DW.

There seems to be some confusion out there about what assisted means (please read the *entire* rules pertaining to this category). It means that you (one person) can *only* use information via a DX spotting net or packet system. You *cannot* have another person help you spot, work multipliers, or make any QSOs for you. This means you must act completely alone except for the use of a DX spotting system. Assistance means *only* that a DX spotting net can be used.

Multi-Single

Overlooking a cliff on southwest Cyprus is the QTH used by the P3A team. Most of the team had traveled from Asiatic Russia to a QTH that has some real locational advantages. They have built up the station over the last few years so that now P3A is a formidable competitor. This year was no exception. They finished #1 in the world, edging out another well-constructed station in Brazil, ZW5B. If you check out the band-by-band breakdown of each station, you can see how close the scores were.

There was also a battle on VP5 for multi-single dominance. After the final bell, VP5L operated by a team from Norway took world #3, beating out VP5DX from the NFDXA. The #1 Europe position was reclaimed by IQ4A. A few years ago they lost part of their rented land, but they have rebuilt the station. Second place

TOP SCORES

WORLD All Band

HC8A18,122,040
EA8AH13,965,672
8P1A12,136,203
KH7R11,894,730
D4A10,911,021
CT3BX10,830,688
P40B10,450,656
9K9X9,802,784
3V8BB9,358,911
C4A9,351,091

28 MHz

ZX5J3,008,866
ZS6EZ2,734,464
5X1Z2,729,610
KP2A2,623,330
EA9LZ2,510,943
CE3F2,170,084

21 MHz

PY5M2,439,954
V8A1,773,756
JY9NX1,706,550
T11C1,583,400
C4W1,375,611
9A3GW1,283,652

14 MHz

P40A1,923,646
9Y4NZ1,757,349
DJ7AA1,494,896
LU4FM1,065,843
S59A1,061,487
OH8L1,006,360

7 MHz

PY0FF575,910
S52O287,670
KP2/K1VW277,290
9A5Y273,762
YT7A238,544
KH6FKG161,840

3.7 MHz

F6CTT237,393
YT0A219,112
3Z0MM182,928
4N1A142,584
ZF2MC123,525
K1LZ118,260

1.8 MHz

SV8CS69,660
OZ3SK47,590
SP7VC52,992
RU9TC47,100
SM6DOI35,295
UA9AT24,354

Low Power All Band

P40P8,747,520
SU9ZZ8,209,349
P43E5,440,770
GW4BLE4,529,292
HC1OT4,294,830
ZX2B3,832,812
SQ6Z3,599,145
K1ZM/23,368,010
S53EA3,314,044
XQ0Y3,189,132

28 MHz

HC1JQ1,158,488
T15WFM1,077,846
TA3D1,065,946
LU4DX1,003,704

LU3HIP958,782
HK3JJH802,169

21 MHz

9E1C1,408,064
AY1I1,396,415
XE1CRO812,592
PY2P789,150
IR5T698,202
LU2BA621,639

14 MHz

VK4EMM667,056
IT9STX600,935
T92D545,400
LO0D519,367
9A3B506,890
IQ7A466,830

7 MHz

TA3J171,535
FK8GM140,580
S54A66,759
SV1DKL62,720
RA9JP40,640
AX3TZ36,096

3.7 MHz

EU1AZ72,048
S53F48,300
YU1ACS42,408
LY40FW41,331
OK1FPS33,957
OK2PJW28,846

1.8 MHz

S57NMQ17,985
UX5NQ17,160
4N7ZZ15,984
SP9RPW9,504
G4VGO8,865
YO2BEH7,964

QRP All Band

P40W5,097,780
KP4KE2,027,706
KR2Q1,507,506
F5BEG1,138,936
N6MU1,020,936
LY1DT963,356
ON/N0KE756,958
LY2FE668,338
JR4DAH621,160
N0HJZ537,716

Assisted All Band

A61AJ10,995,416
OT0T6,654,636
K11G6,092,863
K3WWW5,885,100
K2NG5,593,346
KS1L5,396,475
YT7R5,237,680
K2XA4,869,282
F6KRC4,463,970
OH6RX4,391,442

Multi-Operator Single Transmitter

P3A17,409,816
ZW5B17,014,752
VP5L14,009,904
IQ4A13,581,494
VP5DX12,595,385
RU1A11,679,388

Multi-Operator Multi-Transmitter

CN8WW78,170,508

IG9A50,742,692
IH9P41,762,574
V26B33,938,394
VE3EJ26,396,325
J3A24,983,360

USA All Band

KQ2M/16,081,879
K4ZW5,688,640
W4AN5,622,732
K4XS5,351,048
W9RE5,287,976
N2NT4,801,572
K3ZO4,505,614
W6AX4,431,712
N2LT4,166,856
W3BGN3,867,552

28 MHz

W4ZV1,304,873
K5RX912,890
W2RE911,904
K3RV/4845,556
W6NL834,720
K1RO793,854

21 MHz

K2SS/11,257,792
W7WA951,018
K3EST/6931,516
NN4T888,740
W2FU700,785
N4CT534,650

14 MHz

K4ISV734,558
KS7O/4438,472
K1QS261,284
W5FO247,623
KK0SS174,113
W1ZK163,449

7 MHz

KE4SCY64,310
N0RA40,800
K0KX36,955
NC4NC25,800
K4TX15,642
K9CJ4,608

3.7 MHz

K1LZ118,260
W6RJ116,280
N4UK87,238
K3SV24,080
W5OB20,960
N6BU15,925

1.8 MHz

W2VO5,500
W7ACD915
AA4MM775
K5ZD/1736

Low Power All Band

K1ZM/23,368,010
NF4A1,973,760
K8PO/61,973,075
NA2U1,926,320
W2TZ1,817,712
KV0Q1,726,041
K1VUT1,617,270
KQ3V1,505,787
W1CTN1,452,752
KS1J1,391,104

28 MHz

N2EE/4722,232
K4WI644,499

WE1USA454,817
K7JA/6405,748
WA7BNM/6383,295
K4UCF376,464

21 MHz

WC6H286,800
N4MO230,005
N6WS228,138
KK7JS225,592
W1EL204,400
NG3Q/8185,000

14 MHz

KU6T36,491
N7FYT30,268
KC8LMG28,106
AB8JR24,360
KG9X18,150
N8WDH10,296

7 MHz

W6VJ16,244

3.7 MHz

K8DO2,288

QRP All Band

KR2Q1,507,506
N6MU1,020,936
N0HJZ537,716
WK2G488,592
W0MHK/2307,639
N1TM286,512
KK0Q241,744
NM1K63,694
N2WG53,515
N9CIQ35,682

Assisted All Band

K11G6,092,863
K3WWW5,885,100
K2NG5,593,346
KS1L5,396,475
K2XA4,869,282
W1GD/23,899,705
AA3B3,772,680
KQ3F3,408,330
K3PP2,988,600
W4NF2,804,262

Multi-Operator Single Transmitter

K1AR9,799,092
K5MR9,046,637
W2A8,889,616
N2NU8,058,888
K4JA7,351,132
K8AZ6,488,910

Multi-Operator Multi-Transmitter

KC1XX20,691,530
K3LR20,008,190
W3LPL18,194,336
K9NS14,482,776
N3RS11,891,996
W4MYA11,041,326

EUROPE All Band

OH0Z8,506,505
OH0BH7,447,794
OH2BH6,156,507
OM8A5,614,688
S50A5,574,590
DL2NBU5,297,160
LY7Z4,828,784

DL4NAC4,809,260
DJ4PT4,724,028
LY6M4,470,060

28 MHz

9A1A1,835,778
GI0KOW1,641,046
OK1RI1,549,084
CT8T1,357,620
S58D1,223,620
9A4X1,217,485

21 MHz

9A3GW1,283,652
SN2B1,130,025
OH1F986,812
S53R951,954
OK1RF948,752
IK2DUU857,140

14 MHz

DJ7AA1,494,896
S59A1,061,487
OH8L1,006,360
9A6A912,582
S58A883,282
YT1BB654,318

7 MHz

S52O287,670
9A5Y273,762
YT7A238,544
SM6DER113,190
LY3BX102,585
9A6K99,852

3.7 MHz

F6CTT237,393
YT0A219,112
3Z0MM182,928
4N1A142,584
DL3LAB86,760
OH2BEN61,232

1.8 MHz

SV8CS69,660
OZ3SK47,590
SP7VC52,992
SM6DOI35,295
EO6F23,954
OK1TP21,043

Low Power All Band

GW4BLE4,529,292
SQ6Z3,599,145
S53EA3,314,044
CT1DSC3,023,524
LY40BA2,285,716
ER6A2,079,195
HA1CW1,896,528
RU3QW1,865,875
LY40BM1,553,500
9A7P1,471,527

28 MHz

CT1AOZ739,028
YU1ZZ685,520
9A7D665,280
SW2A626,580
OH0V611,600
F5TDK552,808

21 MHz

IR5T698,202
S57IO546,930
GM4FDM508,536
GI4SNA458,458
EI6FR392,657
OT0H389,070

14 MHz

IT9STX600,935
T92D545,400
9A3B506,890
IQ7A466,830
9A7DM286,014
DF7YU270,240

7 MHz

S54A66,759
SV1DKL62,720
RN3FX35,424
RW3DU31,527
SP3CCT28,080
T90U27,032

3.7 MHz

EU1AZ72,048
S53F48,300
YU1ACS42,408
LY40FW41,331
OK1FPS33,957
Z35A31,570

1.8 MHz

S57NMQ17,985
UX5NQ17,160
4N7ZZ15,984
SP9RPW9,504
G4VGO8,865
YO2BEH7,964

QRP All Band

F5BEG1,138,936
LY1DT963,356
ON/N0KE756,958
LY2FE668,338
SM3C483,144
YU1KN460,368
UU4JO459,868
YU1LM458,126
S59D386,568
YO8WW331,004

Assisted All Band

OT0T6,654,636
F6KRC4,463,970
OH6RX4,391,442
YL8M4,269,843
EM3J4,198,230
RW3QC3,988,422
SK3W3,895,344
DJ2YA3,627,750
OK2FD3,614,423
S50R3,590,615

Multi-Operator Single Transmitter

IQ4A13,581,494
RU1A11,679,388
ZB2X11,199,232
9A7A10,153,116
F6BEE9,174,910
OK5W9,023,670

Multi-Operator Multi-Transmitter

M6T23,968,284
RW2F21,395,826
OH2U20,659,910
OT0A19,281,152
DF0HQ18,548,716
HG6N17,189,120

Europe was taken by the RU1A team from near St. Petersburg. Rounding out the top three was ZB2X, a multi-national team operating from a house in Gibraltar.

The #1 U.S. spot went to K1AR operating from K1EA's station. What can you say about their efforts over the years which has not

already been said? It was a great job. They were given a scare by the team from K5MR; what a great job was done by the boys from Texas. An ice storm and winds this past winter, however, severely damaged K5MR. Let's hope they get the station up and running again. Third place U.S. went to W2A operating from a

small city lot; they put their talent to best use. In Japan, JH7PKU beat out JE4VVM to set a new Japanese record. Look at their line scores to see how close the competition really was.

The multi-single category has a lot of operator participation. Not only is it fun to get together with your friends, this category provides fer-

TROPHY WINNERS AND DONORS

SINGLE OPERATOR
World All Band
HC8A (Opr. Richard Smith, N6KT)
 Donor: Dave Rosen, K2GM
 WA2RAU Memorial

World Low Power
P40P (Opr. Robert Wood, W5AJ)
 Donor: Slovenian Contest Club

World QRP
P40W (Opr. John Crovelli, W2GD)
 Donor: Doc Sayre, W7EW

World Assisted
A61AJ (Opr. Frank Grossmann, DL2CC)
 Donor: Snake River Contest Club

U.S.A
Robert Shohet, KQ2M
 Donor: Potomac Valley R.C.
 KC8C Memorial

U.S.A. Low Power
Jeffrey Briggs, K1ZM
 Donor: North Coast Contesters

U.S.A. Zone 3
W6AX (Opr. James Pratt, N6IG)
 Donor: Bill Fisher, W4AN

U.S.A. Zone 4
Michael Wetzel, W9RE
 Donor: Bill Fisher, W4AN

Canada
David Dudley, VE3OI
 Donor: Niagara Frontier Int'l DX Association
 VE3WT Memorial

Caribbean/C.A.
8P1A (Opr. Tom Georgens, W2SC)
 Donor: Alex M. Kasevich, VP2MM

Europe
OH0Z (Opr. Ari Korhonen, OH1EH)
 Donor: Potomac Valley R.C.
 W4BVV Memorial

Europe Low Power
Steve Cole, GW4BLE
 Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Russia
RD4M (Opr. Vladislav Koussminykh, UA4LU)
 Donor: Roman Thomas, RZ3AA

Africa
EA8AH (Opr. Pekka Kohehmainen, OH1RY)
 Donor: Gordon Marshall, W6RR

Asia
9K9X (Opr. Hamad Al-Nusif, 9K2HN)
 Donor: 2 AM Dayton Pizza Gang

Japan
Satoshi Hara, JH5FXP
 Donor: Japan Crazy Contesters Club

Japan Low Power
Nobuhiro Iwasa, JH8SLS
 Donor: Western Washington DX Club

Oceania
KH7R
 (Opr. Jose Carlos Cardoso Nunes, CT1BOH)
 Donor: Northern California DX Club

South America
P40B (Opr. Jacobo Oduer, P43P)
 Donor: Yankee Clipper Contest Club

South America-Mainland
PZ5JR (Opr. Olli Rissanen, OH0XX)
 Donor: Jose L. Bachmann, ZP6CC
 & Cesar Ivaldi, ZP5K

SINGLE OPERATOR, SINGLE BAND
World – 28 MHz
ZX5J (Opr. Sergio Lima de Almeida, PP5JR)
 Donor: Joel Chalmers, KG6DX

World – 21 MHz
PY5M (Opr. James Neiger, N6TJ)
 Donor: Robert Naumann, N5NJ

World – 14 MHz
P40A (Opr. John Bayne, KK9A)
 Donor: North Jersey DX Assn. – K2HLB Memorial

World – 7 MHz
Andre Sampaio, PY0FF
 Donor: Fred Laun, K3ZO – K7ZZ Memorial

World – 3.7 MHz
Joseph Cornee, F6CTT
 Donor: Fred Capossela, K6SSS

World – 1.8 MHz
Spyros Cheimarios, SV8CS
 Donor: Robert Wruble, W7GG

USA – 28 MHz
Bill Tippett, W4ZV
 Donor: Donald Thomas, N6DT

USA – 21 MHz
David Donnelly, K2SS
 Donor: Worldradio

USA – 14 MHz
Elza Foster, K4ISV
 Donor: Southern California DX Club

USA – 7 MHz
Stewart Dunaway, KE4SCY
 Donor: Stanley Cohen, W8QDQ

USA – 3.7 MHz
Kassimir Petkov, K1LZ
 Donor: Arnold Tamchin, W2HCW

USA – 1.8 MHz
Ronald McClain, W2VO
 Donor: Worldradio

Carib./C.A. (28 MHz)
KP2A (Opr. Robert B. Hayes, KW8N)
 Donor: Snake River Contest Club

Europe – 28 MHz
9A1A (Opr. Zdravko Balen, 9A9A)
 Donor: Worldradio

Europe – 21 MHz
Robert Orehoci, 9A3GW
 Donor: Tine Brajnik, S50A

Europe – 14 MHz
Wilfried Gottschald, DJ7AA
 Donor: A. G. Anderson, GM3BCL

Europe – 7 MHz
S52O (Opr. Romeo Rabic, S52RU)
 Donor: Roger Burt, N4ZC

Europe – 3.7 MHz
YT0A (Opr. Branko Drljaca, YU1FW)
 Donor: Marconi Contest Club – I3MAU Memorial

Europe – 1.8 MHz
Egon Julius Gadeberg, OZ3SK
 Donor: Robert Kasca, S53R

Oceania (21 MHz)
V8A (Opr. Hajime Kato, JO1RUR)
 Donor: Bruce D. Lee, KD6WW

Japan – 21 MHz
Katsumi Furukawa, JH7XGN
 Donor: DX Family Foundation

Japan – 14 MHz
Toshihiro Ishibashi, 7M4BEN
 Donor: Take Yokoyama, JL1BLW

MULTI-OPERATOR, SINGLE TRANSMITTER
World
P3A (Oprs: RA9JX, RZ3TX, UA9YAB, RZ9UA, RU3DX, UT7SF, UA9UHD)
 Donor: So. Calif. DX Club – W6AM Memorial

U.S.A.
K1AR (Oprs: K1AR, K1EA, K1DG, K5ZD, N5KO, W4AN)
 Donor: Carolina DX Association

Carib./C.A.
VP5L (Oprs: LA4DCA, LA5KO, LA9HW)
 Donor: Eric Scace, K3NA

Japan
JH7PKU (Oprs: JH7PKU, JA9SSY, JF2IWL, JQ1UKK, JR5KDR)
 Donor: Vienna ARC – 4U1VIC

Asia
UP0L (Oprs: UN9LW, UN7LAN, UN9LO)
 Donor: Edward L. Campbell, NT4TT

Europe
IQ4A (Oprs: I4TJE, I4IND, I4IKW, I4EAT, I4K0CT, I4XQH, I4ZBOY, I4JUB, I4VEQ, I4MGP, I4CZCF, I4K2ULH, I4K2QPR, I4ZAHF, I4V3YYK)
 Donor: Bob Cox, K3EST

Oceania
AH2R (Oprs: JG3RPL/N1BJ, KH2/JR3RVO, JI3ERV/NH2C, KH2/JR8VSE, KH2/JR8PPG, JR7OMD/WI3O, KH2/JH7QXJ, KH2/JE8KKX)
 Donor: Junichi Tanaka, JH4RHF

South America
ZW5B (Oprs: PY5EG, PY5CC, PY5GU, PY2KC, 4X6TT, LU6ETB)
 Donor: Victor Burns, K16IM

South America – Mainland
FY5KE
 Donor: Tomas Zappini, ZP5AZL & Renato Bellucci, ZP5XF

MULTI-OPERATOR, MULTI-TRANSMITTER
World
CN8WW (Oprs: DL8WPX, DK7YY, DL8OH, S50S, DL1MAJ, DK6WL, HA0DU, DK4VW, DJ7ED, DL4MCF, DL6RAI, DJ9KV, DL1IAO, DH1SGS, DL2MEH, DL6FBL, DL1MFL, DL1MGB)
 Donor: W6NL & K6BL

U.S.A.
KC1XX (Oprs: KC1XX, KB1AWE, AD1C, KD1EA, KC1F, W1FV, K1GQ, KM3T, K6AW)
 Donor: Paul Hellenberg, K4JA

Europe
M6T (Oprs: G4IFB, G4VXE, WW2R, OH6YF, G0IVZ, G0MTN, G4PIQ, G4VMM, G0CYB, G4BUO, G4TSH, G4BWP, G0KRL, G0AEV, G4BAH, G0AFH, G0WCW, G7OCD, G0OZS)
 Donor: Finnish Amateur Radio League

Japan
JA3YBK (Oprs: JH3PRR, JG3KIV, JI3OPA, JM3XKG, JH4NMT, JR4ISF, JF4FUF, JP1NWZ, WV9T)
 Donor: Ryozo Goto, JH3JYS

Contest Expeditions
World Single Operator
D4A (Opr. Alberto Annesi, IV3TAN)
 Donor: National Capitol DX Assn. – Stuart Meyer, W2GHK Memorial

World Multi-Single
VP5L (Oprs.: LA4DCA, LA5KO, LA9HW)
 Donor: Dieter Loffler, DK9KD
 DJ3NG & DJ4EI Memorial

World Multi-Multi
IG9A (Oprs: I4UFH, I4JMY, I4K4UPB, I4YSS, I4AVG, I4KLY, I2EOW, I4K2NCJ)
 Donor: Tachio Yuasa, JA9VDA

World – All Band Under 21 years old
Hamilton Oliveira Martins, PY2YU
 Donor: Gene Zimmerman, W3ZZ

World All Band High YL
Emily Thiel, P43E
 Donor: Yutaka Tanaka, JH3DPB

TOP SCORES IN VERY ACTIVE ZONES

ZONE 3		ZONE 14	
W6AX.....	4,431,712	DL2NBU.....	5,297,160
W7GG.....	3,469,635	DL4NAC.....	4,809,260
W7AT.....	2,944,090	DJ4PT.....	4,724,028
N6ED.....	2,601,228	*GW4BLE.....	4,529,292
K6NA.....	2,457,046	EA4KD.....	3,673,593
K7RI.....	2,423,456	SL3A.....	3,057,525
K5RR/7.....	2,113,716	*CT1DSC.....	3,023,524
*K8PO/6.....	1,973,075	F5RZJ.....	2,908,800
KA6SAR.....	1,896,792	EA5DFV.....	2,899,230
KI6CG.....	1,319,695	G3NAS.....	2,577,064
ZONE 4		ZONE 15	
W9RE.....	5,287,976	OH0Z.....	8,506,505
VE3OI.....	4,916,913	OH0BH.....	7,447,794
W5KFT.....	3,838,632	OH2BH.....	6,156,507
K4AB.....	3,801,438	OM8A.....	5,614,688
K8DX.....	3,732,344	S50A.....	5,574,590
WB9Z.....	3,624,410	LY7Z.....	4,828,784
VE3AT.....	2,577,498	LY6M.....	4,470,060
K9BGL.....	2,039,151	*SQ6Z.....	3,599,145
*NF4A.....	1,973,760	HA8JV.....	3,289,242
KV0Q.....	1,726,041	*S53EA.....	3,314,044
ZONE 5		ZONE 25	
KQ2M/1.....	6,081,879	JH5FXP.....	4,934,972
K4ZW.....	5,688,640	JA5OVU.....	4,907,145
W4AN.....	5,622,732	JH4UYB.....	4,765,128
K4XS.....	5,351,048	JA8RWU.....	3,678,696
N2NT.....	4,801,572	JS3CTQ.....	3,638,071
K3ZO.....	4,505,614	JA0QNJ.....	3,484,877
N2LT.....	4,166,856	JQ6NAW.....	1,775,568
W3BGN.....	3,867,552	JA2BNN.....	1,560,214
K9NW/8.....	3,524,125	*JH8SLS.....	1,522,080
*K1ZM.....	3,368,010	*JM1LPN.....	1,008,763
			* Low Power



GM0B, #1 Multi-Single Scotland.

over Neiger's Tigers #2, who finished in third place. In the 2000 contest there were more teams than ever before. Many of the teams were not competing on a world level but against another local or national team. Remember that teams can consist of any five single op contesters. Look at the rules on the CQ WW web page for all the information.

tile ground for introducing new contesters to the fun and challenge. That is exactly what G9Q, RK3DZD, AF6P, DN1MA, DN1TUX, EC2AHS, ES1XQ, G6YB, GN0XYZ, N0AX/7, and PI4ZWN did, to name a few.

Multi-Multi

Not satisfied with their massive multi-multi effort in 1999, the crew of CN8WW studied and planned to try to bring the multi-multi record to a higher level. Driving a truck from Germany to Morocco was just one of the tactics they used to beat their own record and set a new multi-multi world record of 78.17M points. Such a massive undertaking can begin to be appreciated by noticing that 18 operators were involved, and they had to construct most of the station from scratch.

Reprising their second place finish of 1999, the IG9A crew set up their field-day-style operation on the top of a high cliff on the northwest coast of Lampedusa island. Third place went to IH9P located on the other island of African Italy, Pantelleria. The #1 score in the western hemisphere and #4 world was turned in by V26B. They finished ahead of VE3EJ.

The battle of the big boys in the U.S. was as fierce as ever. Located in New Hampshire and with a crew of seasoned operators, KC1XX took full advantage of his location to take top honors. Tim's crew at K3LR was not very far behind. Only 5 mults out of 1935 separated these two super stations. In third place was Frank's team at W3LPL. The very fine effort of K9NS resulted in fourth place U.S. All four stations had over 920 multipliers. The difference in the scores was mostly due to QSO totals on certain bands and copying accuracy. For all the multi-multi top scores check out the band-by-band breakdown box.

The number one score in Europe was the field-day effort of the experienced ops at M6T. What can you say about the current European multi-multi record holder except wow! Close on their heels was the outstanding effort of RW2F, followed not far behind by OH2U.

Another noteworthy multi-multi competition took place in Alaska, where KL7Y and KL7RA fought it out for king of zone 1. They created their own competition, with KL7Y edging out KL7RA.

Team Contesting

With five team members in the top ten scores, Neiger's Tigers #1 talked their way to the top of the Team Contesting category! With 57.5 million combined points, they made it clear that they are the ones who are once again king of the hill. The second place award went to Contest Club Finland's Team Sunshine with 43.1 million points. They were triumphant

New All-Time Records

World: LA P40P(W5AJ), QA P40W(W2GD), Q28 TR8IG, A21 OD5/OK1MU, A14 Z31GX, MM CN8WW. *USA:* LA K1ZM, L28 N2EE/4, QA KR2Q, A28 N3RR. *North America:* 28 KP2A(KW8N), L28 T15WFM(JA6WFM), QA KP4KE. *Africa:* LA SU9ZZ, Q28 TR8IG, MM CN8WW. *Asia:* A 9K9X(9K2HN), 21 JY9NX(JM1CAX), L28 TA3D, Q7 UN7FZ, AA A61AJ(DL2CC), A21 OD5/OK1MU. *Japan:* QA JR4DAH, Q21 JA6GC, MS JH7PKU. *Europe:* LA GW4BLE, Q28 EA2CAR, A14 Z31GX. *Oceania:* A KH7R(CT1BOH), L21 YB0AZ, L14 VK4EMM, L7 FK8GM. *South America:* LA P40P(W5AJ), L28 HC1JQ, QA P40W(W2GD), Q21 LU1FNH, A7 PY5BF.

Special Mention

Every year the contest is made more interesting by hundreds of contesters jumping on planes, into cars, and on trains to head out to more exotic places than their own backyards. The 2000 contest was a ban-

(Continued on page 20)

ZONE LEADERS SINGLE OPERATOR

Zone	Call	Score		Call	Score
1	KL7FAP.....	59,092	21	9K9X.....	9,802,784
2	VE2GSO.....	885,750	22	VU2WAP.....	1,569,542
3	W6AX.....	4,431,712	23	*JT1CO.....	778,008
4	W9RE.....	5,287,976	24	VR2MY.....	907,830
5	KQ2M/1.....	6,081,879	25	JH5FXP.....	4,934,972
6	6D2X.....	7,150,990	26	*HS4BPQ.....	10,804
7	T11C.....	1,583,400	27	DU9RG.....	3,239,659
8	8P1A.....	12,136,203	28	9M8R.....	7,091,763
9	P40B.....	10,450,656	29	*AX8HZ.....	373,932
10	HC8A.....	18,122,040	30	VK5GN.....	3,494,205
11	PW7BZ.....	3,005,100	31	KH7R.....	11,894,730
12	*XQ0Y.....	3,189,132	32	ZL1ANJ.....	1,398,012
13	LU6EBY.....	2,066,820	33	EA8AH.....	13,965,672
14	DL2NBU.....	5,297,160	34	*SU9ZZ.....	8,209,349
15	OH0Z.....	8,506,505	35	D4A.....	10,911,021
16	UV7D.....	2,703,075	36	*TR8IG.....	615,462
17	UP4L.....	3,895,304	37	5X1Z.....	2,729,610
18	RK0SXF.....	660,928	38	ZS6EZ.....	2,734,464
19	RA0JJ.....	688,913	39	FR5DX.....	4,714,632
20	C4A.....	9,351,091	40	TF3CW.....	549,807
					* Low Power

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
HC8A	89/10/17	490/24/73	844/28/89	1326/31/108	2095/37/131	4276/33/129
EA8AH	114/12/42	476/20/74	619/26/80	1966/30/110	1862/34/106	2777/34/111
8P1A	56/8/17	311/14/45	640/23/84	1680/29/101	1899/31/106	3444/36/127
KH7R	27/7/6	387/23/34	703/30/57	1546/37/101	1325/37/96	3485/36/98
D4A	8/4/7	96/12/37	386/22/77	1248/33/120	1589/37/131	2875/31/122
CT3BX	92/10/36	268/18/62	298/18/74	1166/28/100	1580/30/112	2646/34/116
P40B	100/8/17	250/17/39	537/19/63	1037/28/89	1444/34/94	3512/35/111
9K9X	66/9/19	72/16/48	443/27/83	1432/34/126	1412/38/123	1870/35/133
3V8BB	109/7/41	278/14/61	609/22/78	1250/37/125	1126/38/122	1678/36/118
C4A	127/9/43	213/14/56	415/22/80	1938/36/122	662/28/97	2112/34/106

USA TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
KQ2M	15/8/7	101/13/47	171/23/72	978/38/138	1289/35/130	895/33/125
K4ZW	13/7/9	82/11/37	121/20/61	1002/36/131	834/35/116	1270/31/119
W4AN	18/8/10	74/14/44	176/26/70	741/35/117	686/33/111	1534/34/124
K4XS	14/7/11	95/16/57	153/25/74	916/36/106	564/34/106	1567/34/120
W9RE	23/10/17	88/19/51	160/27/75	471/34/120	965/36/125	1193/31/122
N2NT	19/7/10	129/12/49	118/20/59	697/37/125	925/34/114	1040/32/122
K3ZO	16/7/8	71/15/41	200/23/74	653/32/108	693/34/108	1129/29/114
W6AX	4/4/3	82/22/33	298/26/63	524/37/111	914/36/117	1015/36/120
N2LT	16/8/10	111/17/53	150/23/69	510/32/109	640/32/103	1046/34/115
W3BGN	31/11/18	102/15/56	133/20/70	475/32/110	611/32/108	912/30/122

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

P3A	218/9/51	350/17/64	617/26/88	2033/36/143	2429/40/139	2766/39/150
ZW5B	11/1/10	138/21/58	305/33/104	1072/38/153	2641/39/163	3903/39/174
VP5L	44/8/21	329/15/56	728/24/94	2383/35/132	2588/36/130	2579/32/125
IQ4A	58/8/57	143/18/78	684/34/119	1385/39/152	1950/39/147	2070/39/156
VP5DX	17/6/17	164/18/55	448/26/88	2050/35/127	2057/36/128	3070/36/137
RU1A	93/10/50	400/25/84	511/34/111	1544/39/160	2099/39/155	1207/39/163

USA MULTI-OPERATOR SINGLE TRANSMITTER

K1AR	31/12/25	177/22/78	345/34/110	1015/38/160	1411/39/159	1193/40/162
K5MR	20/12/18	83/22/63	241/32/101	653/38/153	1224/39/158	1876/39/166
W2A	14/8/11	224/20/71	167/28/94	947/39/150	1548/39/159	1163/37/152
N2NU	26/11/18	97/16/50	322/30/97	700/37/140	1480/40/144	1359/37/154
K4JA	25/12/23	68/20/65	137/28/89	1157/39/149	953/40/145	1073/39/153
K8AZ	30/13/27	68/18/64	160/32/96	889/39/148	815/37/143	1128/39/154

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

CN8WW	923/17/77	1818/25/106	3545/37/138	6737/40/177	5754/40/175	6934/40/181
IG9A	809/18/78	1810/31/102	1723/36/123	4882/40/173	4303/40/161	4325/40/170
IH9P	810/12/76	1307/19/80	1455/30/97	4263/38/162	3994/39/159	4457/40/166
V26B	438/17/48	933/21/86	1463/27/108	4076/39/147	4649/40/162	4889/39/153
VE3EJ	797/15/34	998/23/90	1657/34/117	2961/39/167	2986/39/166	2670/39/164
J3A	91/9/23	650/18/75	1341/27/102	3190/38/147	3949/40/157	4327/36/136

USA MULTI-OPERATOR MULTI-TRANSMITTER

KC1XX	230/16/39	824/26/99	769/26/99	2052/39/171	2508/40/172	2192/40/164
K3LR	352/15/36	679/24/91	753/34/117	2624/40/184	2159/40/179	1693/39/171
W3LPL	246/18/41	616/25/93	622/36/120	1960/40/170	2216/40/169	1992/39/167
K9NS	185/16/34	331/25/79	469/34/116	1553/39/167	1847/40/167	1933/40/167
N3RS	50/12/22	164/21/77	519/32/107	1127/39/150	1940/40/160	1579/36/163
W4MYA	75/12/25	262/20/72	390/31/99	1363/40/154	1594/39/152	1645/37/153

ner year for such DXpeditions. Here are some interesting ones that probably made it into your log: 4U1VIC, C6AGS, V31GC, FG5BG, P3A, VP2EK, 3V8BB, 8P1A, OH0V, A61AJ, VP5L, AH2R, GD6IA, FP/N8KR, J3A, V26B, J80WW, GZ7V, JW5E, VP5T, IG9A, EY2A, D4A, EA8AH, KP2A, 6D2X, V47KP, 9G5MD, 9K9Z, PZ5JR, P40A, VP5DX, P40W, FR/N7DD, XU7AA, GJ1Y, LX9SW, PY5M, XQ0Y, ZF2RV, V47NS, CT3BX, 9K9C, FO0WEG, V8A, 9M8R, YN2EJG, 9M6AAC, DX1S, A52W, OH0Z, T88QC, KH7R, V6T1, ZB2X, IH9P, CN8WW, A52B, J43J, T88WX, HD2M, ZK1NJC, T2DX, HB0/HB9AON, P40P, HC8A, ZK1NDK, ZF2MC, T15WFM, ER0ND, FO0FRA, KH2/ W7LP, T88TU, PJ7/K7ZUM, HB0/DK7ZL, ZF2AH, FS/AH8DX, PJ7/N4ZC, CT3/DJ6QT, T15EBU, YB0AVK, TK/IV3UHL, SV9/OH4FR, XE3/W0AH, WP2Z, and KP2/K1VW. Almost all multi stations were mini-expeditions involving operators traveling within a country, state, or city to a station that they usually have spent time helping to build or maintain.

Special mention must be made of several operations. How often are there two A52's on in the CQ WW Contest? Answer: never before. Thanks to A52W and A52B for surprising many a tester, including this writer.

The operation from Kingman Reef had been going full bore when the CQ WW occurred. After some discussion it was decided to enter the contest. Many comments by entrants made the point that they had called K5K for days before the CQ WW with no luck and got them right away in the contest.

The boys from Scotland decided to head over to the Shetlands for the contest. By doing so they activated a semi-rare European country and added to everyone's multiplier totals.

There were many close competitions which warrant special attention. Check out the close battles in the following: FS, UA0, VU, JA1, OH0, LY, PA, and YB, high power all band; W1, W4, W8, W9, VE3, UA0, JA2, G, OH, PA, and UR, low power all band; W5, 5B4, 4X, and EA, 28 MHz; W6, BY, JA1, UN, ON, UA, DL, HA, LY, SP, EA, LU, PY, and YV, low power 28 MHz; JA7, 21 MHz; W6 and ES, low power 21 MHz;

QRP 21 MHz; W, DL, and I, assisted all band; VE, VP5, BY, JA, ON, DL, and OM, multi-single; W and KL7, multi-multi.

Comments

Every year the rules for the CQ WW are reviewed and small changes, if appropriate, are made. This year there is a *major* change. There will be imposed a power limitation of 1500 watts output. This is more precisely defined in the rules (*see the September issue—ed.*). The reason for imposing a power limit to the high power category is the ever-increasing number of entrants who are running massive power, such as 4000 watts or much more. This creates an unfair situation. As with all other rules, the entrant's personal honesty is what makes for a fair competition.

Packet

Packet continues to be a problem because of some single operators not claiming its use in the contest. Part of the problem is that in Europe some think that assisted is still a single operator. It is not. An assisted operator receives the help of thousands of ears in finding calls. A non-assisted operator finds everything *alone*. Although the number of violators is



Hugo, XE1CRO, #3 world Low Power, 21 MHz.

EUROPE TOP SINGLE OPERATOR ALL BAND

Station	160	80	40	20	15	10
OH0Z	92/7/42	273/8/53	295/16/70	1815/37/124	1604/37/125	1768/36/122
OH0BH	220/8/47	220/20/71	423/33/101	1379/37/126	1340/39/126	1150/38/132
OH2BH	129/7/39	303/14/50	318/25/77	1363/36/111	1096/33/103	1281/35/121
OM8A	36/5/24	170/8/49	420/23/62	1183/36/127	1351/35/110	971/38/115
S50A	79/6/40	149/17/59	516/28/97	798/33/103	1033/35/112	1119/36/113
DL2NBU	95/6/41	201/10/53	439/23/82	725/35/114	1129/37/112	1065/35/112
LY7Z	64/6/30	327/12/56	515/25/96	788/38/120	934/35/123	1030/39/132
DL4NAC	90/6/45	303/16/65	608/20/76	701/33/108	599/32/105	1014/38/126
DJ4PT	124/8/43	210/13/58	523/26/77	796/34/90	872/36/89	800/36/102
LY6M	85/7/33	363/11/52	207/15/56	771/32/97	1323/33/106	1155/34/104

EUROPE MULTI-OPERATOR SINGLE TRANSMITTER

I04A	58/8/57	143/18/78	684/34/119	1385/39/152	1950/39/147	2070/39/156
RU1A	93/10/50	400/25/84	511/34/111	1544/39/160	2099/39/155	1207/39/163
ZB2X	52/8/36	243/21/76	559/37/128	1899/37/128	1978/35/130	2864/36/132
9A7A	162/7/47	650/20/82	905/31/107	1286/37/139	1964/37/139	1034/38/150
F6BEE	42/5/42	408/16/71	538/32/103	928/38/141	1271/38/136	1711/39/156
OK5W	47/9/47	650/18/80	1221/34/116	1299/40/151	1055/38/138	901/39/145

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

M6T	852/12/62	1684/23/95	1874/31/113	3320/39/161	2656/40/160	3252/40/172
RW2F	855/10/60	1168/24/82	2310/36/125	2902/39/153	2969/39/154	2361/39/157
OH2U	602/12/60	723/26/84	1215/35/110	3277/39/170	2874/39/164	2407/40/167
OT0A	713/10/60	1645/19/88	2169/34/120	2888/39/152	2342/38/148	2149/40/154
DF0HQ	705/8/54	1305/20/89	2037/33/117	2885/38/158	2300/39/158	2012/40/160
HG6N	562/9/57	1120/17/71	2016/34/122	2851/38/152	2413/38/141	2455/39/162

small, they usually end up as high profile in the results. The CQ WW Contest Committee has developed the means of extracting information supplied to us by sysops from around the world and applying it to a questionable log. By these means we found several operators in the SSB contest who did not claim the assisted category but used packet. Their calls do not appear in the score listings. It actually is very simple. If you want to use packet or other DX spotting nets, please do so, but claim the assisted, multi-single, or multi-multi category.

E-mail

For the 2001 contest please send your SSB log via e-mail to: <ssb@cqww.com>. By doing so you allow us to provide you with an analysis of your log, and you make the CQ WW database for your contest more accurate.

There continues to be some confusion about the cabrillo format. The cabrillo format is created by your logging software. If your software does not provide cabrillo as a log-submission format, you might need to upgrade to submit a cabrillo log. As just mentioned, cabrillo is only a simple form of log submission to be used by the CQ WW. Because it is a standardized form, it is easy for us to strip out all the important data, such as your score, club, QRM, category, address, and other such pieces of information. To gather this information manually is very time consuming and can create errors. Since cabrillo is standardized, do not attempt to modify it. This just makes more problems for us.

Please review your submission to make sure that you have provided all the needed data, especially operators of multi stations. We encourage you to submit pictures of your operation. You can do that by sending the pictures or any questions to: <questions@cqww.com>.

Thanks

Each year hundreds of hours are put into making the CQ WW Contest the most fun and the best judged. The CQ WW Contest members who contributed to the 2000 results are K3LR, N6ZZ, N3ED, K6NA, W7EJ, N9RV, N5TJ, N5NJ, N2NC, K1DG, JE1CKA, I2UIY, S50A, G3SXW, OH2KI, RA3AUU, DL6RAI, EA3DU, CT1BOH, OK2FD, VE3EJ, VA7RR, ON6TT, PY5EG, and F6BEE. Acting as special advisors were K3ZO, W3ZZ, and N2AA. N6TR contributed significant software updates. N5KO provided the means to allow the CQ WW CC reflector to run efficiently, plus packet software checking. N6ZZ spent many hours beta-testing the call database. The score database and high accuracy of the UBN/NIL lists was due to the work of N6AA and N6TW. N6TW



The antennas of Alan, K6ACZ, Assisted, All Band.

processed each e-mail and disk log, turning them all into what N6AA and K3EST used to create the UBN lists and the final results.

Congratulations to all the winners. CU in the 2001 contests!

73, Bob, K3EST

DX QRM

I guess I made a few more contacts than last time. Will be into CQ WW next year, maybe as EA5...**EC5ACA**. At the age of 76 still enjoying CQ WW...**U5WF**. Enjoyed the contest, even though my area was directly hit by a typhoon during it, leaving only 2-1/2 antennas working...**4F3XX**. Fun as usual; ran my new stack of 10m antennas (2 x 6-el x 3) for the first time and they worked really nice but did not beat the aurora on Sunday of course!...**7S2E**. A few RFI computer-related crashes, but all in all, a good test!...**AH8DX**. Had a great time in the contest. Unfortunately, I couldn't spend as much time as I would have liked. Great to work as many DX countries as I did. Looking forward to another CQ WW contest. Conditions could have been better...**G8MRH**. First and last time Assisted—more countries than last year but plenty more got away...**G8NWX**. Due to other commitments I missed the 28th and found condx on 29th super so I missed half the fun. Storm on 30th blew the aerials down and flooded the shack...**G3VAO**. At 78 yr of age still enjoy the challenge of competing...**G3FNM**. My first attempt at computer logging. Had great fun picking up some new countries. Hope the check log is of use...**G4EDR**. I raced the 180 miles back from Scotland to make a few QSOs under my G call!...**G4OBK**. That CQ WW SSB was a training exercise to introduce our new members and operators to the vast functions of TR-Log. This station was closed down at circa 15:55Z on Sunday and will therefore not warrant a full-blown entry. Please find below our check log for Y2K...**G9Q**. Our hilltop location was great for propagation but was exposed to some of the worst winds and rain the British Isles has seen in many years. Fortunately, everything survived. Signals on Sunday were weak, but still readable on most bands. We never heard any W/Ve on 160...**G6DIA**. Surprising what can be worked on 10m with 100w & GP in CQ WW!...**GM4OBK**. Band conditions much better this year. Lost my 160/80m antennas in severe gales just before the contest so restricted to four bands. Running just 5 watts it was tough at times but great fun!...**GW0VSW**.

Propagation was so and so. A family team consisting of wife at computer, husband and a good friend at the rig, and son in the kitchen is a new way to meet friends and hams in a contest. WW DX remains my favorite contest...**I4MFA**. Very nice contest! It was my first time that I try so I'm happy for my test...**I21ANZ**. I hope a part of the rule changes. QSO with the same country is a point. Or don't count the same country's multiplier. Because calling the same country stations is a mental burden in point of that might be 0 point for the stations...**JABQWO**. Good condx. But we have heavy local QRNs which bothered us to run...**JA7YAA**. I tried to break the former record of this category. But it is in a Soapbox delicate position because of very small difference between his score Soapbox and mine. I believe the accuracy of my score...**JJ3ZZE**. Operated at the state park 60 miles away from my apartment house. I gained another fantastic experience there...**JR1NKN**. Big linear failed on Thursday, decided to go with 400w on 10m...**LX1NO**. Arrived from my business trip just Saturday afternoon, so not for serious contesting...**LY2OX**. Managed about 35 hours operation altogether. Great fun despite heavy rain storms here in east UK. First 12 hrs: FT900 (100w) barefoot, Cushcraft A3 & dipoles. Remaining time: FT847 + 400w linear, same antennas...**M4U**. Another wet and stormy contest from south-east Scotland. Great fun and no broken masts this year. Will be back for more fun next year...**MM0BQI**. 80+ mph winds in UK flexed the mast severely, making my trousers (pants) change color at times!...**MM0BRG**. Antennas came down in Sunday's hurricane. My first CQ WW Contest and I've been licensed HF since July. It was great fun and propagation on higher bands was excellent on Saturday but not so good on Sunday. Antennas: CB vertical for 10 & 15m, folded dipole for rest...**MW5EPA**. Bad condx on Sunday. 80m was almost dead to the US and on 10m only very few US stations came through...**OE2BZL**. Unfortunately, the flu got me so I had no time to put up the big antenna...**OE6Z**.

First day good 2300 QSOs; the second was conquered by the aurora...**OH5BM**. Only 12 hours on time due to PC breakdown. CU next year...**OZ1AA**. A very fine weekend with good condx. Never made so many QSOs on SSB. Rig: ICOM IC-740, 60-70 watts output into a TH3-MK4 3-el tribrander at 35 ft.; Carolina Beam 80m at 35 ft., which performed extremely well. Openings on 10m one hour earlier on the Carolina Beam than on my beam...**OZ8AE**. Amazing conditions on 10!...**P4BP**. Solar flux a bit high, but band was terrific. Great show! ...**PA3ELD**.

(Continued on page 98)



The 7-element 10 meter antenna and 5-element tribander of PA0IJM, #1 Netherlands.

It was our last chance to win M6T in this century, hi. CU next year...**RW2F**. Do not like M/S stations who are transmitting CW or just their call and refuse to answer our calls declaring they are mult station. Many times they are mult for us...**S5BA**. We think that CQing on the mult radio in M/S is not allowed...**S5BQ**. I was preparing quite a lot for the contest as I installed a new logging program. Everything worked okay. Too bad conditions went down from Saturday to Sunday...**S53M**. This was the first major contest I participated in and also the first time my fresh contest callsign SM5S was used, as well as the contest computer program TR Log. Although I have been a radio amateur since 1987, I passed the CW examination in April 1999 and first then got the permit to operate on HF. However, due to other circumstances, I became *de facto* active on HF in November 1999. This means that I have been operating on HF bands for about a year. I am not quite sure to which contest class I belong. Am I a Rookie or not? Anyway, I was a single operator, meaning that I was in the shack alone, nobody helped me with operation of the equipment, nor did anybody supply me with food, drink, or anything else. However, I did hear some big stations on the bands tell that they were active on frequency so and so on the other bands. The power used was 100 watts. A notebook with the program TR Log was also used. The operation started Saturday 1920Z and ended Sunday 2400Z. During that time I had two major pauses, total resting time estimated to about three hours. This means that I had been operating for about 25 hours. This was the first time you heard of me, but it will not be the last time...**SM5S (Op. SM5SIC)**.

Great opening on 10m long path on 2nd day...**SV1DKR**. Thanks to all who calling me! Good luck in CQ WW CW!...**UPBF**. Conditions were fantastic on 10m. Biggest thrill was when I was called by a VK station. Could hardly believe it with my low power. QRP contesting is tough but very rewarding and fun. Keep up the great work. See you next year...**VA3SB**. Great contest. Had a blast on 40m. Slept thru the only major EU opening on 10m & 15m Saturday morning. Oh well...**VA7DX**. As usual a great contest. Also as usual too many distractions and others intruding on my contesting time. There's always next year...**VE1JS**. Conditions were sure one way during a good part of the contest. I could hear them okay but just couldn't make it back to the DX...**VE4IM**. Probably everyone noticed the solar storm with the incredible auroral flutter that arrived toward the end of Day 1. Things had been great until then, but ... Can we take the first 24 hours and just double that score?...**VE5RI**. Next time I will read how long the contest runs. I was under the impression that it was only 24 hour contest and not a 48 hour contest. Wife was happy only 24 hours, but my mistake. Tried out some new software programs and had a power bump during contest which made things interesting. Needed to do major editing as system clock went wonky. At least my log can be used for checking...**VE7FCO**. 100% S&P. How about a category for this?...**VE7XF**. Unreal 10m condx for first 24 hours. Band never shut at VK4...**VK4UC**. Conditions were fantastic!...**VR2BG**. This was my first ever contest...**VY1MB**. High band conditions were fabulous...**P4BW (Op. W2GD)**. Working our 3rd dogs back empty bottle DX contest was a great pleasure...**DJ1YH**. All QSOs made in S&P mode—too many EU QSOs...**F5BEG**. Special thanks to the Jersey Amateur Radio Society for the use of their station...**GJ1Y**. I enjoyed CQ WW phone...**JA4XHF**. This was my first attempt

at such a competition and I really enjoyed it!! My xcvr is an Alinco DX70 running 100 watts and my antenna is an end-fed 132 foot long wire running NE-SW. In other words a quite primitive operation!!...**MM5AJW**.

Nice contest and good propagation in general. It is a pity our 4/4 cubical quad was broken by the wind before the 15m operation...**F5KBA**. The health situation did not permit me to join my friends at PI4COM. I had fun playing around with the limited home situation...**PA1AW**. The dipole at 20 ft. is not a DX buster so I pulled out the 80m ell from Field Day. Not a lot better but it helped...**VE3OIL**. Great fun! My first CQ WW contest!...**VK3MS**. My QTH is in the Hungarian Embassy in Jakarta...**YB8AVK**. The gales didn't get us, but the rain did. We had to close down with water pouring through the roof...**M1P**. Causing too much TV!; shut down...**ZS6HO**. I dedicated this contest operation to my departed friend Stephen, 8P8CV...**8P6SH**. Number 1 contest in the world. I like to work in DX contests...**9A2KO**. As usual EU stations (MM) are running excessive power (2–2.5 KW)...**GW4PD**. Very good contest. High winds and rain so could not put antennas to full height...**M2G**. Great contest, superb conditions the first day, good fun...**VE3ZZ**. Enjoyed the contest even though my area was directly hit by a typhoon during the contest, leaving only 2.5 antennas working...**4F3XX**. First time participated in the QRPp category. Vy hard 2 QSOs! Cu on my love 10m band!...

7K2PBB. Great conditions on 10m!...**DF1ZN**. 1971: My first contest, was DM5SI, now I am an old man, hi...**DH5AO**. Had my fun. A friend of mine used my home station which causes some trouble...**CT3/DJ6QT**. Another very enjoyable contest. No voice keyer so keeping the drugstore in profit buying up throat lozenges. Aurora on Saturday night made Sunday an endurance ordeal to get those QSOs. Very difficult to RX in EU due to very QRO and wide sigs from some European countries. I do not believe for a second these guys are operating within their license conditions. C'mon guys, how about playing it straight next year...**EI6FR**. A lot of action in all the bands. Some new ones too. Who can ask for more?...**EA6LP**.

Entering the SSB contest was still rather unexpected...**F6BEE**. First time I worked 40 WAZ zone in contest...**F8BJI**. Antenna mast broke mid-way through day 1. Temporarily fixed...**G0DEZ**. At age 84 did not spend quite so long at mic as in earlier years...**G6QQ**. A very part entry with more emphasis being placed on working new mults and keeping a high QSO rate. All operation was S&P style and was in small sessions ranging from 2 hours to 2 minutes in length. This was due to having to look after my 5 year old son for the weekend...**GM0CLN**. It's surprising what can be worked with a ground plane and 100w...**GM4OBK**. After a decade of top-ten finishes in the high-power, all-band category, this year I decided to try my luck in the low-power section. It was certainly a challenge, not only lower output but lower antenna too. From mid-day onwards on Sunday my tower was cranked down to just 25 feet (the southern part of the UK was hit by violent storms, causing major structural damage) but even at the lower height the QTH here plays well, so I was quite pleased with my final score...**GW4BLE**. Really enjoyable contest expedition despite 70 mph winds and aurora overhead. First ever use of GZ prefix...**GZ7V**. Next time we want to get more points...**JA2YKA**. Heard all zones but could not work 35 and 39...**JR4PMX**. I worked the first 12 hours as low power and changed to high because of the poor conditions but at the same time the condx changed. Hi Hi. But the principal was that I enjoyed the test very much...**LU5VY**. Working K5K/KH5K was the thrill of my ham life! The 2nd day band closed to JA/USA...**LA6YEA**. I'm happy breaking two personal scores, plus making 2300 QSOs...**LU4DX**. Very interesting propagation beaming long path. It was a contest to say hello to many of my old friends...**LW8EXF**.

As with last year's contest, it was very hard to work stations from Far East Asia and Oceania due to QRM from East Europe and Russia...**M0BJL**. It was nice to hear the band so busy. I have never heard 10m so open...**M3C**. 50 mph winds and rainstorms made me glad I only had a dipole to worry about...**MU0FAL**. Great Saturday but then I was hit by visual aurora and first snow...**OH2BH**. Very good contest and perfect operators...**OK2SWD**. A great weekend! Thank you all and see you next year...**P72AW**. There was following circumstances that did not let me work as I planned to. First: I got all my antennas down just b4 the contest due to extreme bad WX conditions (hurricane has come). Second: My mains power supply was just 180V instead 220V and it was a reason to low power operation. But good news: I received my 5BWAZ Plaque just b4 the contest start and it was really good stimulation to take part in the contest. Thanks a lot to all who came back to my call and hope see again in CW part...**RA0FA**. Power transformer in my xcvr died as I was calling KL7Y:(...**UA4LDP**. It was a big contest with big problems because of electricity...**YT7R**. Thanks for your great contest! This is my first contest!...**UX6F**. IC-756 found dead on eve of the contest. Took to local hospital and

TEAM CONTESTING

- Neiger's Tigers #1: 57,593,286:** GW4BLE, D4A(IV3TAN), HC8A(N6KT), KH7R(CT1BOH), 8P1A(W2SC), PZ5JR(OH0XX).
- CCF Team Sunshine: 43,143,102:** OH0Z(OH1EH), OH2BH(OH1NOA), EA8AH(OH1RY), OH0BH(OH1WZ), PZ5JR(OH0XX).
- Neiger's Tigers #2: 30,260,271:** FS/K4ZA, FS/AH8DX, WP2Z(K6RO), P3H/K7ZUM, VK5GN.
- Neiger's Tigers #3: 22,919,268:** KQ2M, W4AN(N2IC), W9RE, K6NA, W7GG.
- Team Aruba: 15,891,426:** P40B(P43P), P43E.
- Neiger's Tigers #4: 14,026,906:** ZX5J(PP5JR), PY5M(N6TJ), P40W(W2GD), V8A(JO1RUR), JY9NX(JM1CAX).
- Neiger's Tigers #5: 12,996,493:** VE5ZX, NA2U, K1IG, K8DX, S53R.
- Revenge of the Nerds: 12,122,156:** LY6M(LY1DS), OH6XX, S51TA, S50C(S55OO), EM3J(UU2JZ).
- CCF Aurora Ticklers: 10,667,083:** OH7M(OH4JFN), OH1F(OH1MDR), OH6NIO, OH3RM, OH6RX.
- SKY Contest Team 10m: 6,172,640:** OK2RZ, EA9LZ, YT6A, W4ZV.
- LUCG #2: 5,845,120:** LU7YS, LW8EXF, LU4DX, K1VUT, LU6EY(LW9EUJ).
- Novi Sad Contest Team: 5,537,120:** YU7WWW, YU7QL, 4N7N.
- Neiger's Tigers #6: 4,863,257:** K6LA, N6WS, W6TK, K0DU, W2FU.
- Beverly Contest Group: 4,761,124:** K1JE, W1NT, W1TE.
- CCF Aurora Artillerymen: 4,210,107:** OH5BM, OH6AC(OH6CS), OH8L(OH8LQ), OH7A(OH7MA), OH2RA.
- LUCG #4: 4,196,829:** LU2EC, LW7EIC, DL8UD, W7GG.
- SKY Contest Team Abroad: 3,322,544:** S56A, RZ9HT, G3TMA, RA6LBS.
- CCF Aurora Gamblers: 2,152,271:** OH3WW, OH0V(OH6LI), OH3MMM(OH1MM), OH8VJ.
- Team Tennessee "Dos": 2,094,556:** K4LTA, W4PA, K4BP, AK4ST, KE4OAR.
- Rocky Mountain Low Power Team: 2,081,137:** W0AH/XE3, W0ETT.
- LUCG #1: 2,033,835:** AY1I(LU7DW), LU5EVK, LW6EQG, LU4DZ, LU1FHN.
- Neiger's Tigers #7: 1,980,908:** PP5UA, PP5JD, PQ5W(PP5WG).
- Team Tennessee "Uno": 1,754,606:** NN4T, NQ4U, NY4T.
- WWYC Team Bravo: 1,478,367:** 9A7P(9A6XX), N4JN.
- Team Numero 13: 1,422,397:** EA1MK, EA1CQJ, EA1YB, EA1OT.
- WWYC Team Alpha: 1,417,839:** OZ1AA, K4UCF(KD4RWN), LZ5AZ, LZ1ABC.
- LUCG #5: 665,413:** LU7DR, LW5DX, LW7EGO, LW8ER, LU1HN.
- Radio Club Foronda: 455,445:** EC2ADR, EC2AUS, EA2BLK, EA2AVM, EA2CAR.
- CCF Team Leisure: 332,346:** SV9/OH4FR, OH2LU.
- LUCG #3: 177,741:** LU6FAZ, LU5JKG, LW8DXJ.

then went to New Market fleamarket which was on that weekend and purchased an old Kenwood TS-660 not realizing it was QRP. Was on the air by mid-afternoon to amazing conditions. Worked Reunion and Marshall Is., VK, ZL, Greece, etc. I had to keep checking the external wattmeter to convince myself the rig was throttled back from 10 watts max to QRP 5 watts. Amazing. May go QRP from now on...**VY3HG**. This was the first contest I worked. I had fun doing it and looking forward to more contests...**VY1MB**. Needless to say we got hit by the solar storm on the second day like everyone else but we had a good time...**VY2SS**. It is always fun to work the CQ WW test...**ZS4NS**. On Sunday the band closed early here for the USA and there was some very rapid and deep QSB from noon onwards...**E4CF**. As always a very enjoyable contest. First time as a single operator...**IK4QJM**.

Vertical dipole often much better than TH5!!...**IK5EKB**. Second time I took part in this contest. It's always a great challenge...**IZ6CUS**. I am satisfied with my best results...**JH4UYB**. Another of those very exciting contests! Superb conditions on Saturday...**OT7L**. This is my first CQ WW DX contest...**T77CD**. I missed west coast. I thought I heard some stations well. No answer at all...**RA3AQ**. Great first CQ WW. Not sure that low power was a wise choice...**ZS6VER**. Problem: TV, my wife, my dog. I'm sorry...**I8TWB**. Good contest. Conditions good. 15m sounded more like 20m!...**M2W**. I had problem with my computer which deleted all my QSOs that were on another band...**9A7D**. New antenna rotator and cables but very tired after working...**IQ7A**. 44 hours of ultimate pleasure with CQ WW...**SP5DDJ**. I operated from just north of Cancun, Quintana Roo, Mexico. Ran 100 watts, an IC-706, to an 25-year-old Hy-Gain 18AVQ 10-80m trap vertical about 30 ft. out on a 70 ft. dock in Caribbean Sea. Used a resonate length of wire averaging 15 ft. above ground on 160m...**XE3/W8AH**. What a difference using a 15 ft. high dipole instead of stacked Yagis!!...**NH7/N6ND**. Was visited and interviewed by the Island TV station during the contest just hours...**FP/N8KR**. Best condx on 10m since I can't remember when. Sadly the amplifier blew up Sunday and I couldn't get the parts to mend it. Just wait for the CW weekend!...**G3UFY**. Thanks to Rick, ON4IZ, and his lovely wife Mia for their hospitality and fine food...**ON/N8KE**. I would like to say thanks to my friend Martin (LW5DKY) because he allowed me to use his station during the contest...**LW5DX**. Next year the first thing to pack is my really irritating alarm clock. The one I bought down there was not loud enough to wake me up! Slept for 5 hours the second night and missed out on the US 40 and 75m runs! Should have had another 600 easy Q's. Antenna broke on 10m Sunday morning; ended up on 15m and 20m all day Sunday and the rates were on 10m! Two things for next year: alarm clock and make sure all the clamps on the antenna are tight and there will be a next year...**FS/K7ZUM**.

USA QRM

Casual contest, great propagation, great time...**N8UU**. Good year for having fun...**N6IC**. Conditions were great! 40 was open to Europe and Africa Friday night when Murphy struck. Amp died and radio died. I just shut everything down and went to bed. Installed backup radio next morning and continued without amp. Still had a great time. Highest score ever. Oh the wonders of computer logging...**N6OU**. My first time to do a single op of any kind in this contest...**WSKFT**. As much fun as you can have with your clothes on!!...**AD6KA**. Entered Multi-Operator Single Transmitter for first time. Most ops are new to contesting...**AE9B**. First electronic log. Fingers crossed...**AG4CG**. Single band too boring; will go all band next year!...**AK6R**. Done the hard way—100 watts to a GAP Titan-DX all-band vertical antenna!...**K8CF**. Great conditions while they lasted! I had to stop abruptly on Saturday evening, but I guess I didn't miss as much as I had feared...**K1HT**. Another very enjoyable weekend. Nice condx. That Saturday evening solar activity made it even more interesting. See you in the CW contest!...**K1IR**. The peril of multi-band antennas—trying to work 20m with the low-band vertical! Weekend contests highlight the fun and challenges of ionospheric propagation...**K1LI**. I had a great time operating this year. Had to do a lot of time juggling at home with grandkids, etc. My goals were 1 million points and 1000 QSOs. Made the 1 mil, but band condx changed a bit on Sunday and I missed the 1000 Q's! This type of propagation shift only hammers home the point to work those mults ASAP and run 10m as much as possible early on! First time using Writelog and I'm hooked! I'm sure that I'll get more proficient with it as time goes on. I still can't believe that I missed Zone 5 on 80 and 10 meters!!...**K1RV**. Had a ball with a 3-el/10m Yagi and an R6 vertical. Look out...**K2YSY**.

This year did multi-single with my 10-year-old daughter Sara, KB3CLQ. Had a blast...**K300**. Peaking sunspots sure make it fun...**K3SA** (We will miss you, Steve—ed.). Phone WAC in 2 hours with 5 watts! Got to love this stuff...**K4FB**. I had a great time with the contest. It was my first CQ WW but I am sure it is not my last...**K4KJ**. This is the first time I put in a real effort to be on the air. Had a great time!...**K4RFK**. I decided to try low power this year and it turned out to be a lot like being a minnow in a shark pool!...**K4WI**. Due to house construction this was my only antenna. Conditions were not good...**K5ZD/1**. I invited a bunch of guys from United Radio Amateur Club (URAC/K6AA) to contest. Many of them had never operated from a contest station. I was impressed with the dedication of this bunch. They operate a lot of special events



Zlatko, Z32AM, #1 Macedonia 21 MHz.

and can bang out the Q's. Eventually this group will become a real M/M crew...**K6AA**. People need to spend more time listening than transmitting. Might make a few more contacts...**K7YAK**. Was sick at the beginning of the contest and didn't really start until Saturday morning. The bug hit me again and had to take a few more hours off during the morning Eu run. But for my first time doing SOAB in this contest, I'm happy with the results...**K8DX**. My goal is to beat last year's score, and I did it! But next year is going to be tough...**K8VUS**. Thanks to N4GN for inviting me to operate at his station for the Y2K CQ WW SSB. Another great learning experience and several new ones added to my DXCC total made it a great weekend! 15m Asia run at the end of the test was incredible!...**K9GX**. First time doing this contest from home in over 10 years! Sure is a challenge with a dipole and 100 watts from the Black Hole...**K9PG**. CT 6.26 thinks I am in Palau, CQ Zone 27...**KC6OKU**. Thanks to all the ops who put up with my low power...**KC7WUE**. First time working the CQ WW DX Contest. Had a great time with it...**KC8CON**. Band conditions were strange but still got some good QSOs...**KC8HVV**.

First WW for me in many years; sure felt good to be a part of the fun again...**KD1R**. This was my first contest. My Dad helped me. It was a lot of fun! Especially talking with all the different countries...**KD7HGV**. Great propagation from the Pacific. Very few African stations active on 40m. Less DX than last year. Several DX stations would work the ROW stations, simplex, and when they "worked the pile-up down" they would call CQ and then leave. No USA split operation...**KE4SCY**. Not bad for an attic dipole, 100w, and my first attempt—20 countries I've never talked to before!...**KE4VYZ**. Saturday was great, Sunday disappointing, but still a best ever score...**KF2O**. Great band condx! Had too little time to operate. My son started my dual-boot computer on Sunday and Win98 changed the system clock to adjust for daylight savings time. I hope he did this after the contest and not during one of my breaks!...**KF9YR**. Really my first serious effort. We had a great time. Murphy stopped by a few times, but we worked around him...**KK1L**. This was my first CQ WW—looking forward to many more...**KK4TA**. First time using a computer. Wow!...**KL7FAP**. The most fun is when the rare ones come out of the woodwork!...**KS7T**. Fabulous 10m openings on Saturday. Wish we'd had more time to play!...**N8AX/7**. Too busy this weekend to put in a solid effort. Had fun anyway and picked up a few new ones...**N8HR**. Enjoyed the contest. Conditions were pretty good except for the flare Sunday morning!...**N1AO**. Great conditions, and who ever thought I'd work an A5 calling CQ in a contest? Best score ever from home...**N1DG**. It was some fun running QRP in this contest...**N2WG**. In addition to having a great time operating with more automation than ever, I got to spend a few hours Saturday afternoon working with a couple of new neighbors who received me S9 on their audio gear and TV set. On Sunday morning just as 40m was peaking to the South Pacific and I was about to pounce on New Caledonia, a squirrel decided to dance one last time on the power lines and give me another 4 hour break from the contest...**N3AM**.

Tough contest. First, rotor froze up pointing east. Then rig malfunctioned and had to go with my IC-706 without filters. That was interesting. Made the going really tough. Maybe next year will be better!...**N3KF**. Great contest! What a difference a higher antenna and an amp make! I don't feel like such a little pistol anymore...**N4EL**. Are too many participants good? Yes/No — No because I could not find a free frequency to call



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CQ anywhere!...**N4UH**. After hustling to get the new tribander stack done, it looks like I have a bad piece of coax, so only the bottom antenna was working. CondX were FB Saturday morning but went down the tubes when the K-index soared. As always on phone, just fooling around...**N4ZR**. My first CQ WW contest. I loved it. I really enjoyed N3FJP's Logging Software. Will be looking forward to next year!...**N5ASA**. Lots of fun with so much DX to work. Thanks to everyone for QSOs!...**N5XJ**. Thunderstorms were real interesting. Shut us down for a couple of hours. Station N5YA worked well. Almost doubled last year's score. Thanks to all who worked us...**N5YA**. Ran the Kachina 505dsp/Acom 2000a combo via remote. Sure beats antenna restrictions...**N5ZC**. Fun contest, even when you do the whole thing on a vertical...**N6DW**. New Zone 3 record in this category. Tough going with QRP on 40!...**N7IR**. I couldn't work the whole contest, but this is my best score ever. Last 10m run netted Vietnam and an XU station...**N7UJJ**. My first CQ WW contest. I "loved" it! After 50 hours trying to work K5K in the pileups, I found him sitting all alone during the contest calling CQ and worked him the first call! I was one happy camper!...**N9KT**. Only partial effort on Sunday due to bad conditions, but got first "weekend DXCC"...**N9QQK**.

First attempt at real contest operating for me. Much technique to learn and time to commit!...**N9WW**. I jumped into this as a way to get in some practice with NA before sweepstakes. I guess it kind of ran away with me...**N9J8J**. New twin boys limited the preparation time for my first contest effort and a new station. Only minutes before the contest started did we have a working logging program, and we never did get the voice keyer working. But a log periodic is an awesome antenna in a contest; don't let anyone tell you otherwise!...**NZ3O**. Enjoying playing. Didn't have time to be serious but bands were great!...**W8OSK**. My comments have never been printed, so I won't say anything here...**W2UP**. Another HP/LP entry from W2ZU. I was on my way to a 1M effort on SSB, not my favorite mode, when the amplifier became a smoke generator. So, I became LP and suffered for it! Well there's CW coming up to soothe my fevered brain...**W2ZU**. Great conditions and the new tribander stack played great...**W4NF**. Could use some better antennas but first thing first. Got to get a better chair!...**W4SL**. This was my first contest and it took two days for my body to physically recover...**W4WTB**. Got three new countries to increase total to 251 and five new countries to increase Y2K total to 219...**W4YDY**. Used the NFDXA club call, W4ZR, for this one. Lots of fun. Most of our contesting members were operating VP5DX this contest...**W4ZR**. First day was 200 Q's ahead of last year's record on 10 but finished 200 below!...**W4ZV**. Concentrated on working 10m all zones. Excellent conditions except for Asia...**W5B8R**. This was the best of propagation, but was the worst of propagation, all in one weekend...**W6CN**. Not too bad for a single op operation using low power (100w) and a vertical antenna...**W6SI**. Time for another record! or two to become active in the shack...**W7AT**. New W7 record! Could have been a lot better if 10-15m had not gone gunny sack Sunday...**W7GG**.

Good conditions. Fun to work around the world and make DXCC in one weekend...**W7QF**. Not like operating from my other QTH at XE2ZDV but fun to do it from the states...**W7ZR**. Great conditions. My new antenna, C31-XR at 90 ft., really kicked butt...**W8KEN**. This was my first CQ WW contest using my new Extra Class privileges, but I still spent a lot of time on 10m! I had a blast running an old Kenwood TS-820 and my homebrew Windom antenna which I put up 29 years ago when I was a first licensed as a Novice. I'll be looking forward to next year's CQ WW Contest...**W1A0FR**. This was a casual effort, operating somewhere around 18 to 19 total hours, mostly in the day and early evenings of both Saturday and Sunday. My primary interest was in working new countries, but also in working new band-countries, particularly on 15 and 10m. I was able to call CQ only a few times, without much success. All in all, I had a lot of fun...**W5MR**. A lot of work went into preparing for this contest and it paid off...**W4VM**. 100w coupled with good condx and good antennas still gets you places...**K1ZM**. Installed two 295 ft. beverages for 40 meters. I was very pleased with their performance. My score was down from last year. The transmit antennas still need more work. There was an excellent 40m JA opening Sunday 1145-1230Z to W4-land. There were more JA's at one time than I have ever heard before! These nice surprises keep you coming back for more...**KD4RH**. Sunday afternoon not so hot but great time with super conditions on Saturday. Need to definitely improve my 80m antenna. Decided to operate Assisted since I had limited time. Forgot how fun it was to chase mults from the packet cluster. Thanks again to the JA boys who help keep the "Left Coasters" in the ball game...**W6TK**. Kudos to the JA ops! They kept the amateur spirit at heart and were true ambassadors while contesting...**AG4CZ**.

I shared the station with my 12-year-old daughter (W6JEN). She entered single band 10m and I did 40m and slept during the day. Maybe next year we will team up with a MS effort. An adventure in futility—40m SSB with 100w and a vertical...**W6YJ**. Just as in past years everything worked except the operator, which kept crashing...**K1QS**. Severe line noise in daytime both days hurt effort...**K2YEH**. Conditions great Saturday, not so good Sunday. Still a personal best...**KF2O**. Good conditions on 40m early Sunday morning. I picked up five new countries...**W8VE**. A squirrel shorted the power lines and gave me an unexpected 4 hour break from the contest Sunday morning...**N3AM**. The two solar flares messed up any chances of DXCC this weekend...**N4UK**. No opening to Europe on 160 at all: conditions on the bands were great...**W2AX**. My first contest submission in over two decades...**KB1CJ**. Fantastic opening to SE Asia the last hour of the contest...**N4CT**. First contest. The most fun I've ever had in amateur radio!...**W4WTB**. Morocco on 40m was a thrill...**KB2EOQ**.

Station Operators
Multi-Op, Multi-Transmitter

3Z1KG: Club. **4U1VC**: DF6QC, DL1ELY, DL3EL, DL4ABR, DL5XAT, DL5XL, AA2D & NM3K. **BY1DX**: OH2BVE, OH2BCP. **CN8WV**: DL8WPX, DK7YY, DL80H, S50S, DL1MAJ, DK6WL, HA0DU, DK4VW, DJ7ED, DL4MCF, DL6RAI, DJ9KV, DL11AO, DH1SG, DL2MHE, DL6FBL, DL1MFL, DL1MGB. **DF0HO**: DL7HW, DL1AUZ, DL20BF, DL3DXX, DL30I, DL3TD, DL4ALB, DL5ANT, DL5AXX, DL7VOA. **DL2DBH** & **DJ9DZ**: DL3EBB & DH4JU, DL2EHP, DF6JC. **EA07A**: DL5NAM, DF4RD. **EA3ESJ** & **EA3CQN**, EA3CKX, EA3EJ. **EA40RE**: EA1JE, EA2TV, EA4BPJ, EA4BT, EA4CT, EA5OW, EA5XX, EA7CRL. **ED1SML**: EA1CP, EA1GY, EA1EVR, EA1EVS, EC1AJS. **ED2URV**: EA2BFM, EA2AIJ, EA2BHE, EA2AJX. **ED4RAX**: EA4ABW, EA4AFA, Montse, Juan. **ED7VG**: EA7HY, EA7ATX, EA7GNC, EA7CCN, EA7CCA. **ES9C**: ES1ABR, ES1DW, ES2NA, ES2QH, ES2RJ, ES5MC, ES5MG, ES5QA, ES5OX, ES5RAH, ES5RN, ES5RW, ES5RY, ES5TV, JE1KK. **EU5F**: EU6DX, EU6E, EU6FF, EU6ET, EU6TV, EV6G, EV6M, EV6GAF, EV6AL, EV6AW, EV6WD, EV6EW, EV6GM, EV6GTU, EV6Y2. **EY2A**: EY8BA, EY8CQ, EY8MM, EY8WV, EY8XX, AB6BH, K5OT, K6JL, K6MC, N6AA, N6ZZ, W6XD. **GMBB**: GM0EJ, GM0LR, GM0OQC, GM0EY, GM0XFK. **GM2T**: MM0DXC, MM0CC, GM4XZ, MM1COP, MS5BP, GM4UYZ, GM70LQ, GM0RZL. **GZ7V**: GM3W0J, GM4YXI, GM4FAF, GM4TX. **H80/H89A0**: DF1JC, DJ2YE, DK5E, DL2BAW, DL8AAQ, HB9DOD, HB9LUC. **H80HO**: HA3MY, HA5LN, HA3UJ, HA3LI, HG5C TEAM, HA1YA. **H6GN**: HA2NA, HA3OV, HA3NU, HA6DJ, HA6ND, HA6NF, HA6NL, HA6NQ, HA6OB, HA6OI, HA6ON, HA6PX, HA9PP, HA9SU, HA8IB, HA9AX, Y05BRZ. **HS0AC**: E20GMY, E20NVH, E20REX, E20RRW, E21EIC, HS0/G3NOM, HS0GBI, HS1CKX, HS6NDK.

IG9A: I4UFH, I4JMY, I4AUPB, I4YSS, I4AVG, I4KLY, I2EOW, I2KNCJ. **IH9P**: IT9WPO, IT9BLB, W7ZB, OK1FUA, I8QLS, I8KETA, KR7X, W1NA, IT9VDO, I2K2RP, I2K2HT, I2K2CJ, I2IFL, I8ULL. **IS0A**: IS0MYN, IS0GRB, IS0WBT, IS0XDA, IS0XSE. **IU2D**: I2VXJ, I2K0E, I2ZAAJ, I4K4MT, I4K4ZF, I4K4RF, I4K4GF, I4K4EL, I2K6C, I2W2HJ, I2O2HG, I2K2PC, I2K2PF, I4K4ED, I2K2CF, I2K2BH, S51XO, I2UPG, I2K2YQ, I2K2EY. **J3A**: K1EP, K1TH, K1XX, K2DO, K2KQ, N2FF, N2GA, N3MV, W6FC. **J80WV**: N02R, W2EN, WA2VUY. **J11YPA**: JA1ATK, JA1PEJ, JF1EQA, JF1VST, JH1AEP, JH1FPD, JH6VLF, JK2RCP, JO1CRA, 7K4HMN, 7M3LVM. **JA1ZLO**: JM3CRJ, 7N3PZ, 7N2JED, JM7WXJ, JM4WKT, 7L3COP, JN7TCQ, Kubota, J29YK. **JAZYKA**: J2LTYJ, JL7JRO, JH3FBK. **JA3YBK**: JH3PRR, JG3JK, JI3PA, JM3XG, JH4NMT, JR45F, JF4FUF, JP1NWZ, W9VT. **JA5BJC**: JA5BJC, JA5FDJ, JA5JCC, JH5RSX, JRSJAO, JS1OYN. **JA7YRR**: JA7CVX, JA7FDY, JA7MSQ, JA70EW, JA7ROE, JA7WND, JH7MEV, JH7MEV, JH7VH, JR8BPM, JR7LVA, JE1KGI, JI7HAV, JM7VFK, JI1XGF, JO1NBV. **JW5E**: JWSMN, JW7FD, OH2BH, OH2TA. **K1R** & **K1LZ**. **K1K1** & **K1CC**, KM1P, N1C, N1ND, N7NG, W1RM. **K1TTT** & **W1MK**, W1T0, K2CFE/R9A9SU, KB1W, N1F, N1SR, N2TX, K2C1AY/UR5FBG, F5NMR/KE11R, K3TD, N9KAU, WA1ZAM. **K2RD** & **W1A**, W1FCN, K2SX. **K3ANS** & **WF3H**, W3ZL, K33WX, K3YD, N3VJA, N3EYI, W0RSJ/3. **K3DI** & **N3WK**, W30Q. **K3IL** & **K3TEJ**, K3CT. **K3LR** & **K3UA**, N3RA, K0RF, K8GL, N9RV, W2RQ, W0QA, N08L. **K3NM**: N3NM, W3CF, K3MOH. **K4WPM** & **K4QF**, K4WZ, AK5E, WA4ZJ, K54CG, KB4TXS, **K6IDX** & **K8HA**, W60AT. **K9NS**: Others. **KB1H**: AA1CE, N1XS, N81U, KB1DFB, K1EY, W1TJL, N7PPO, N1BU, LU9AP. **KC1XX** & **KB1AWE**, AD1C, KD1EA, KC1F, W1FV, K1GQ, KM3T, K6AW. **KL7RA** & **AL7IF**, AL7MU, KL7AC, KL7TC, NL7Y, N1TX, W5GN. **KL7Y** & **KL2A**, KL9A, WL7E, KL7FH, WA2GO, K7NT, K1VR, AL7PJ, NL7Z, KL7CC. **KM5TY** & **AG5T**. **KR1G** & **K1RX**, KF1V, K1PEJ, WC1M, W1RZF, W1AAX, W35M.

KV1W & **W1CSM**, K1MBO, N6RFM, W1NR, KE1FO, K5ZD. **LA1K**: LA1BFA, LA3YKA, LA40FA, LA4SKA, LA4TKA, LA4VKA, LA5GKA, LA6MGA, LA7UJA, LA8UGA, LA8VJA. **LY7A**: LYR346, LY3IT, Jasiulionis. **M6T**: G4IFB, G4VXE, W0V2R, G4HYE, G01ZT, G0MTN, G4PIQ, G4VMM, G0CVC, G4BUO, G4TSH, G4BWP, G0RKL, G0AEE, G4BAH, G0AFH, G0WCW, G70CD, G00ZS. **N1MD** & **KZ1M**, KE1LI, KB1VM, K1QUE, N1ROZ, N1GE. **N2RM** & **N2RM**, KA2AVE, N2AA, N2NC, W2REH. **N3RS** & **N3RD**, N3ED, N2SR, N3AD, K3WU, N3ZS. **N4T0** & **AE4RO**, AE4SW, K1KNQ, K1TO, K1T3, K4LQ, K5KG, W4IR, W44HZ. **N8KR** & **AC8W**, K8DD, W8IQ. **NQ4I** & **W4DD**, AA4LR, W0CN, W4SV0, NE4S, N9HZQ, K4BAI. **OH2U**: OH1JT, OH2BV, OH2FT, OH2HE, OH2IW, OH2JQS, OH2JTE, OH2LUR, OH2MA, OH2XX, OH5JOC, OH6CT, OH6DD, OH6EI, OH7BX, OH7JR, OH8KK. **OL5T**: OK1TC, OK1PAT. **OT0A**: DF3TJ, DH5HV, HA1AG, JK3GD, K1WY, OH2JA, ON1AEI, ON1AWB, ON1CJM, ON1CKE, ON1JDU, ON1DLJ, ON1DRQ, ON1DQZ, ON1DRY, ON1DRD, ON1DSD, ON1DSS, ON1GL, ON1MAR, ON2AIM, ON2BJ, ON2BD, ON4AID, ON4AMX, ON4ATW, ON4AWU, ON4AWV, ON4BCB, ON4BCJ, ON4CAT, ON4CBI, ON4CCL, ON4CCM, ON4CCD, ON4CCG, ON4CDE, ON4CGS, ON4CJG, ON4DB, ON4FI, ON4VT, ON5CD, ON5DH, ON5OT, ON5UM, ON5WL, ON6HZ, ON6PU, ON7AV, ON7NB, ON7YZ, ON9CF, ONL1011E, ONL3246, Daniel, PA1BX, PA3EZL, PA7BT. **OZ5W**: OZ1FTU, OZ1KRF, OZ3W, OZ4AEE, OZ4QA. **OZ5WQ** & **OZ1ETA**, OZ3J, OZ3ZW. **P4COM**: PA0RRS, PA3BWD, PA3CAL, PA3EWP, PA5ET, PA7FM.

RK0AXX: RA0AM, RA0ALM, RU0AM, RU0AT, RU0AF, RU0MY, RV0AR, RV0AS, RV0AX, RX0AE, UA9MA, UA0AAN, V90UAM, Maxim, Andrej, RV0AM-Silent Key. **RK4LWA**: RA4FLQ, UA4LLH. **RW2F**: RA2FA, RA2FBC, RA4LV, RN2FA, RN4LP, RW4WR, UA2FB, UA2FC, UA2FF, UA2FM, UA2FZ. **RZ3AZO**: RA3AA, RN9XA, RZ3DJ, RZ3FR, RZ3GE, UA9XMG. **SK6D**: SM6FD, SM6XE, SH6AEP, SM6WET, SM6WQA. **V26B**: N3BNA, N2ED, N2TK, W5YR, W2UDT, K3OX, WT3Q, WX0B, NM5M, DL60BQ, N3OC, N2CK. **VB2R**: Club. **VE3EJ** & **VA3NA**, VA3RU, VA3UJ, VE3EJ, VE3SS, VE3SUM, VE3NU, VA7RR, VE7CC. **VE3SY** & **VE3BUC**, VE3XA, VE3WG. **VE5RI**: VE5CMA, VE5FA, VE5FF, VE5VI, VE5VJ, VE6EZ, VE6FN, Mason. **VE6FI** & Others. **VP2KE**: AC8G, W8GEX, W8ILC. **VP5T**: N2YW, WA2VYA, WA3RHW. **W0AIH/9** & **W0UC**, KM0Q, KT0R, WR0DK, AA0ZZ, K9CYF, K0TG. **W1FJ** & Others. **W2AX** & **K2LE**, K2UJ, K2WR, K5ZG, N2QW, VE1XT, W2II, W2M2. **W2CC** & **W2NO**, K2WJ. **W3LPL** & **DL6LUA**, K1HTW, W2GG, ND3A, ND3F, WF3J, A13M. **W3PP** & **AA1K**, W3NY, N6Z0, N3HUV, K3FT, N3KW, N3PT, AB1P, JG2WV. **W4MYA** & **WK4Y**, WU4G, WX3B, Lily. **W6KK** & **W6KP**, N6AW, W6RW, N6MJ, K6AM, DL2SAX, K6HMS, W6HT, N6VHF, N6KJ, K6WVS, W6VJS. **W6YJ**: N6DE, W6LD, N7MH. **W8BY**: K8NKY, AB8EF, K8GMB, K8MVD, K8MWW. **W8ZA** & **K3DNE**, K8OQL, WD3A. **WU4M** & **K54XG**. **YV4A**: YV2IF,

YV3ACZ, YV5AMH, YV5EED, YV4FAA, YV5IQJ, YV5IVB, YV5LMW, YV5LWX, YV5MHX, YV50BU, YV50HW, ZL60H: ZL1CN, ZL2A0V, ZL2CA, ZL2BSJ, ZL1AXG, ZL1AZE, ZL2UO, ZL2AMI.

Multi-Op, Single Transmitter

4L0G: 4L2M, 4L1DA, 4L4CR, DL7B0. **8S2F:** SM2HWG, SM2LIY, SM2N0G, SM20DB, SM20XB. **9A1CMS:** 9A5AHD, 9A5TR, 9A6KZ, 9A5AVV. **9A2L:** Club. **9A7A:** 9A7V, 9A8A, 9A2ME, 9A30S, 9A3TR, 9A4PA, 9A4RF, 9A6DM, 9M6AGC: K7AR, N7NU, W7RR, W7YAQ, N6NZ, G4M9. **9Y1VC & 9V1BH:** AA5ANT & W5WV, W5FLL, K4NR, N3BUO. **AB0MV & AE0Q:** N0HF, K0CER. **AB2DE:** N2KPB, KC2AVE, N2ZAS, KB2IZB. **AE2F & N2KIM:** WR2I. **AF6E:** W1LLY, N6TVY, KC6JYJ, KG6CLJ, KF6CSX, W6DGR, KF60CE, K6NIO, W6APO, K6D6WA, AH2R: J3ERVNH2C, JG3RPLN1BJ, J70MD0N/W30, KH2JR8VSE, KH2/JH70XJ, KH2/JE8KKX. **B4R:** B44RC, B44RD, B44RE, B44RF, B44RR, B44RV, B44REK (YL). **BV2B:** B2XAB, B2VKI, B2VKS, B2VNT, B2MZAAL. **CG6GS:** K1GT, K6GWH. **CE3AA:** X03ZW, CE3WHD, CE3WDD. **CE4TA:** CE4ETZ, CE4B0O, CE4FXY, CE4USU, CE4MLN, CE4RWS, CE4WJR, CE4PBB, CE4MLN, CE4MVK. **CE6TC:** CE6DFY, CE6TBN. **C09K:** CT3BD, CT3LD, CT3EE, CT3EN, CT3HK, CT3IA, CT3IJ, CT3KU, CU2CE. **C09T:** CT3BX, CT3CD, CT3HF, CT3XN. **DF0CG:** DF1JU, DF7JU, DL1EJA, DL5JQ. **DF0SAX:** DL8DY, DL9DA, **DF3CB & DH1TW:** DJ1OJ, DJ8QP, DL3NED, DL4GBA, DL4MEH, DL6OW. **DH0DX:** Joe, Rudi. **DJ1YH & DK5WQ:** DL3SR, DL6PK, DL8WQ. **DK0LD:** DL3NCI, DL4NER, DL5RDO, DL9NEI. **DL0DX:** DL9KEI, DL6EZ, DL5JL. **DL0GK:** DF6VP, DK10H, DL1QW, DL1YFF, DL6YEW, DL9LR, DL9YAJ. **DL0ML:** DH1U, DL2SEU, DL3SDN, DL4SEW, DL9SDO, DH1SAJ. **DL0PAF:** DL1MFQ, DL4RCM, DJ0GM. **DL1RYD & DL2HYH:** DF5AN, DL/HB9CRV. **DL2ARD & DL2AMC:** DL3ALI, DL4ALI. **DL7VY & DL7UBA:** DL7VRO. **DN1MA:** Robert, Markus. **DL7MAE (Control Op).** **DN1TU:** DL1EDB, DL3LBA, DL7A0S, DD3KV, DG6NEK, DG8NGN. **DX1S:** DK3GI, RK3DT.

EA1AXH & EA1AXQ: EA1COE, EA1YAU. **EA1COZ & EA1EAG:** EA1AS, EA1EYE & EA1DZH, EA1CS, EA1CUB, EA1BVP, EA1WX. **EA1FCR & EA1CFM:** EB1CHL. **EA1URO:** Club. **EA3RKG:** Club. **EA4ST & EA4ATI:** EA5ANO & EA5GCT. **EA7UR & EA7ES:** EA7EHC, EC7AJL. **EA8KK & EA8AVB:** ED1BD: EA1ALD, EA1ED. **ED1DT:** Club. **ED2WW:** EA2AZ, EA2MQ, EA2SG, EA2ANW, EA2ATU, EA2BPP, EA2CCG, EA2CMQ, EC2AHS, EC2AZY, Aki, Jesus, Pipe, Roberto. **ED3TR:** EA3CT, EA3GEP, EA3KG, EC3CTR, EC3CVD, UT3ZZ, Julio. **EA3GG0.** **ED4TD:** Club. **ED4TE:** Club. **ED8WVC:** EA8AXB, EA8DP, EA8BY, EA8AKN, EA8AZM, EA8NL, EA8AKQ, EA8BP, EA8IR, EA8AJV, EA8FO, EA8AAG, EA8BYG. **E1GE:** E19HQ, E16GF, E17J, E12FG, E14HS, E15FDB. **ES1XQ:** ES1THQ, ES2THY (YL), ES3THP, Andre, Toenu, Meelika (YL). **EX9A:** EX2M, EX0M, EX8W, EX8F, EX8MLE, EX8MDA, EX8MLT. **FX5BA:** F5CWU, F5M00, F5NFG, F0CYT, F5A0V, F1PJB, Sylvain, Alain. **F5K0N:** Club. **F6BEE & F6FGZ:** F6FVY, F5M2N, F5NLY, F5SNJ, F8CRH. **F6KDF:** F5NOD, F6JXJ, F5F9T, F5R0P, F5PYL. **F6KFI:** F5AZM, F8BQL, F8CGL. **F6KFF:** F6DQM, F6C0S, F6B80, F6D2S. **F8KCF:** F5JUL, F5UAM, F6BGC, F1ADG, F4JLB. **F9FE & F5NBX:** F6C0U, F8BPN, SWL-Jacques, F6HKA. **F6S8G:** W4WV, KR4DA, W9AAZ, N2WB, FM5BH & OH2RF, FM5DN, FM5FJ, FM5DS, FM5W0. **FR/N7DD & FR5DN:** F5YKE & Others. **G0WH:** G0TDC, G0TPK, G7K7F. **G3B:** G8ATD, M1ACI, G8PTP, G30LY, G4L0O, M0AUF, G0BVV, G8BEG, G4YRF, G40XD, G4VXT, M0B1K, M0CCKA, G4LWA. **G6YB:** G3XSV, G0WVK, M0AXF, G3TKF, G4FKA, M10B, M1EBV, M1AAH, M5XXX, G7FFB. **G9D:** G3ZVW, G3WUV, G0DYY, M0RXX, M1CYY, G1GJK, G1LLW, G6IZA, G7TWC, G800. **G83RS:** G4JVG, G0WAT, M0DXR, G3WRO, EA3WC. **GD6IA:** K1EU, K1JB. **G4JY:** N0QV, W0DM, G0HHY, K4UC6. **GNOXYZ:** G14FUE, G14OYG, G14NTF, G10BJH, G16IXD, G17VUF, M1EEEM, M1SSPY.

H2H: HB2CI, HB9BLQ, HB9CAT, HB9CXZ, HB9FA, HB9FBD, HB9FBH, HB9FBG, HB9DRH, HB9FBO, HB9BYT, Emanuele. **H820K:** HB9DHG, HB9DOS, HB9DQG, HB9FAQ, HB9FBL, HB9FBS, HB9FBT, HB90CW, HB90DM. **HG1R:** Club. **I3EJ & I3VYI:** IK3PDD, IK3SCB, IK3SSX, IK3THG, IK3TJ, IK3XTH, M0CCKA, G4LWA. **I4GAS & I4AUM:** I4GAD. **I4MFA & I4AWHG:** I4K4ZH. **I13A:** I43RAV, I43VHY, I43RCH, I43WQF. **I14M:** I4MES, I4K6RO, I4K4RQ, I4K4VT. **I02L:** I20KRV, I20DHU, I2KYE. **I02X:** I2K2GU, I2K2SN, I2K2AU, I2C2O, I2K2EA, I2K2BC, I2K2WAD, I2W2LL. **I04A:** I4TJE, I41ND, I4IKW, I4EAT, I4COCT, I4K4QH, I4Z40Y, I4JUB, I4VQE, I4K4MP, I4K4CF, I4K2ULH, I4K2QBR, I4Z4AF, I43YK. **I09K:** I09KVE, I09EYG, I09CYH. **I0R3:** I030BR, I030GT, I03SUI, I03XUG, I03ZNR. **I09ECQ & I09FXY:** I09NGN, I09HBT. **I09BE & I0K0ZY:** I0K0ZY, I0C0SO, I0C0CR. **I26CST & Others:** **J1YKX:** J01VUT, J01VNM, J01PCT, JH4OWG, **J42ZJW:** Club. **J6ZLI:** J6BELU, J6WYS, **J47YA:** J7HLZ, JH00RW, J7UOL, JH0WZ, JG7PSJ, 7M1JAS, J07DU, 7K45HF. **JE4VVM & JG4CLV:** JH4UHW, JN4FEU. **JH0ZHO:** JH1GNO, JH1SBE, JA0VSH. **JH7AFR & JA7WME:** J7TACV, J07DCC. **JH7PKU & JA9SSY:** JF2IWL, J01UKK, JRSKDR. **J1KVV & JF2A1:** JF2SKV, JF2FJU, JG2ADX, JG2KTJ, J2P2LL. **J12ZEY:** JA2BI, JA2BIV, JA2BIL, JA2BHJ, JM2CCL, JQ2BCC. **J12JS:** JA2AXB, JA2JSF, JH2VUL, JH2EJC, JG2TSL, JM2RUV. **J12XZ:** Hoya, Ishibashi, Ishihara, Kubota, Maeda. **J3YBB:** JA3PJL, JA3FHL, JA300K, JH3FQF, JF3EBO, JE6EKC, JS3VEX. **JK6SEW & JH60IL:** JF6DEA.

K0AB: K0EF, K0MP, K0RO, N0ZM, W0NF, W0ZA, W11R. **K0GEO & N8AJN:** K0IR & K0DIR, K0SV, K0BLR, K0C0SH, W0BTRA, W0MRD. **K1AR & K1EA:** K1DG, K5ZD, N5K0, W4AN. **K1GW & K1BX:** K1PT & N2NL. **K1YR & K1RU:** K1ZR & W1G0, K81S0, N1SNB, W01DX, K2TE. **K2UA & K2AXX:** N2MG, N2TR. **K2XR & K20WR:** N2YFH, N2IY, K2YEH & K2D2J. **K3BSA:** K3JLK, K3MCA. **K4JA & K9G:** K9YJ, W9V, W4JVN. **K4NO & K49EK:** K5BR & K5KA, K5NZ, K5GA, N5RZ, N5TJ, K6NR. **K6AA:** N6RV, W6S6D, N6UB, KG6BPB, K6NT, W6MO, W60QPO, N7KFL, W6BRO, W7XK, K06EA, N6NW, K07ON, JH1HGC. **K6ZM:** W6G0, K6WG, K6AZ & K8LN, K8MR, K8NZ, N8AA, W8AJ, W8KIC, W8BK, W78C. **K8AC:** K8BQ, A8BFY, K8BI, K8C0F, K8OT. **K9CU:** K9BF, K9UWU, W9DS, K9DT & N9LCR, K9NR. **K4VIMG & N1ZRD:** K4ZJEM & Others. **K0Q5S & K4Q5OS:** K4Q5OR, K89EXE, KH7V & WH7K, K7BUD, K1K1 & K1KD, W1JZ, K9X9 & Others. **LA2Z:** LA3BA, LA6GF, LA6MV. **LA3T:** LA7G: LA50FA, LA6EIA, LA7WCA, LA8AJA, LA9VDA. **L7N:** LU8NA, LU4AAG, LU1IND, LU2NI, LU2NAA, LU1NAF, LU7NN, LU7HBO, LU7HVV, LU4NA, LU6HDF, LU6HQA, Otto & Tom. **LT1F:** LU3FZW, LU1FHE, LU3FP, LU6FQD, LU1FD, LU3FQG, LU1FKR. **LT5H:** LU1HDR, LU2HF, LU4HUG, LU5HY, LU9HG, LU9HPN, LU4HBR, LU5HBR, LU6HAR, LU9HAB. **LU4DRC:** LU3EUO, LW6DKO, LW1DTC. **LX9SW:** LX1AQ, LX1RQ, DL10Q,

DK2OY. **LY2IN:** LY2BUU, LY2OM, LY1CO. **LY40ZZ:** LY2CO, LY2PAJ, LY3BY, LY3MM, LZ5S: ZL1ZY, ZL1MS, ZL1UO, ZL1HST, LZ2CJ, LZ2FI, LZ2FV, LZ2HM, LZ2UU, LZ2DIA, LZ3DJ, LZ3GU, LZ3TI, Vasko, Krassy.

M1P: G3GAF, G3UHU, G4PWA, G4TNB. **M2G:** G0UZF, G0LRE, G4TZR, G1AHM, G0KLP, G4WJR, G0WTM, G0WTD, G3ZRE, G0UCS, G0LBT. **M4U:** G0DVJ, G3YYZ, M0CGE, M1DSY, G4YJQ, G4EYE, G4WHK, G4FTF. **N0AX/7 & KD7DQ0:** K07FWQ, K07FYX. **N0IJ & Others:** N0NI & W0ETC, W00V, W0FLS, K0KD, N0AV, N0AC. **N0UU & K0DAS:** K0WA. **N1LN & W5MF:** K8EP, W5SB, K7LEX, W5ASML, K5LD. **N1MM & N1IXF:** N1ND & N7NG. **N1RR & W1MK:** KM1P, K5ZD, N1LH, N2PDG. **N1SOH & W1FM:** N1XL & K2GH. **N2LR & W1TKM:** N2MM & K02P, K2UT, K2PS, N3EA. **N2JU & W2VY:** K2WI, K2QM. **N2SS & N2MP:** N8NR & N9AG, N8BJU, W8QD, W8QIC, W8B9CF. **N8PR & A04Z:** W4SAA, W4OV, N4QV, W4SO, W4CH, W4HRA, K4DON, NE3F & KS3F, K3ATO. **NK7U & K7Z0:** K7MK, W7ZRC, KK7A, W9LT, AC7LG. **NT4TT & N4ZIO:** NR7Z, K4ZG, K04SSN, Reilly. **NZ30 & W3B:** O440: O44AHW, O44BHY, O44CTV, O44DUJ, O44DKC, O44DI, O44DX. **OE1A:** Club. **OE2S:** OE2GEN, OE2LJM, OE2MON, OE2VEL. **OE2XPA:** OE2CUM, OE2AJT, OE2MWN. **OES:** OE50HO, OE3GEA, OE5MKM, OE5VBL, OE5MRP, OE5UNO, OE5CMO, DH1NH, DH1NF, DL5MRM. **OH1X:** OH3ES, OH3LQK, OH9MM. **OK2KQM:** OK2MTW, OK2SDC, OK2POX. **OK5W:** OK1AEZ, OK1CF, OK1WF, OK1FKD, OK1DDO, OK1JR, OK1KT, OK3BH. **OL5Q:** OK1HRA, OK1FLC, OK1VSL, OK1INC, OK1AYE, OK1FFU. **OL7R:** OK1ZMS, OK1XUV, OK1WMM, OK1VVK. **OM3A:** OM8AW, OM0WR, OM8AM, OM8DM, OM3CGN, OM8AU, OM3CH. **OM5M:** OM3RG, OM2RA, OM1KM, OM2IB, OM2KI, OM2KW, OM6NM. **OM7M:** OK2BFN, OM3PA, OM3CP, OM5RM, OM5RW, OM5ZW. **ON6BR:** ON4CGZ, ON4CHL, ON5RA, ON4CB, ON4BR, ON4AYL, ON4CFV, ON2BG. **OR5E:** ON5GA, DF3TJ, ON9CEG, ON4CFR, ON1KSF. **OT0C:** ON4CA, ON4AJZ, ON4ALT, ON4AMI, ON4ASV, ON4CEG, ON4CJN, ON4UN, ON9BGP, Dirk. **OT0L:** ON1FAN, ON1DLL, ON1DMO, ON4AEK, ON4AHF, ON44K, ON4AST, ON4BN, ON4BR, ON4CAF, ON4CEZ, ON6NL, ON6ZX, ON7YT. **OT0P:** ON50O, ON6AH, ON6VL, ON7LX, ON7PC, ON7ZV, ON4LAM. **OZ5ESB:** OZ1CVF, OZ1DYI, OZ11NN, OZ4ABH. **OZ9KY:** OZ1DLD, OZ1FKZ, OZ9AAR, OZ1DD.

P3A: RA9JX, RZ9UA, UA9YAB, RZ3TX, RU3DX, UT7QF, UA9UHD. **PA7MM & PA1XA:** PA3AA, PA3BL, PA3CF, PA7MH, PA0COR. **PI4CC:** PA0CS, PA3BAG, PA3BSQ, PA3PEP, PB0AU, PB5TK, PE7KG. **PI4ZWN:** PA3HFJ, PD4JWA, PD3JDM, PA-105, PD1ABK, PD4AVO, PA-9013, PA-9822. **PY2BM & PU2NYV:** PY2CE: PY2GY, PY2EZ, PR8RZJ, KU1WFP. **PY2LDS & Others:** RF9CG, RZ3BO, RA9CKQ, RA9CMO, UA9CIR, UA9FYQ, RX9CAZ, UA9GDT. **R13A:** RK3FM, RK3FT, RA3DKE. **RK3DWH:** RX3DCC, RV3F, RN3DC, RZ3BY. **RK3DZD:** (Children 14-16 yrs) Alex, Anton, Dmitry. **RK3QWM:** RA3QH, RA3OU, UA3QJ, RN3QO. **RK3VWC:** Ambrozy, Ignatev. **RK4WVA:** UA4WA, RW4WA, RN4WA, RU4WU, UA4WVK, UA4-095-754. **RK6LZS:** Club. **RK9JAW:** UA9JMA, UA9JON, A. Kiktev. **RK9SWF:** RA9ST, RZ9SR. **RU1A:** Club. **RW3WWW:** RW3WV, RA3WWS, RA3WNS, RA3WJ, RA3WML, RA3WRE, RA3WRV, RA3WHS. **RW9C:** UA9CGA, RW9CF. **RW90WD:** Club. **RW9UWK:** Medvedev, Velizhanin, Pribora. **RX3RXX:** UA3RAR, UA3RJ, RA3RFA, UA3RV. **RZ0IWR:** Kolodnik, Poppil. **RZ1AWO:** UA1ACC, RA1ARJ, UA1AQF, UA1-169-1334, R1A-16, Zadoroshtny. **RZ3DZF:** Club. **S50Q:** S50Q, S56M, S57AL, S57AW. **S510 & S52P:** S52E, S52F, S58Q, S58R, S52TG, S560AN, S56SHA. **S51SL & S53FO:** S53S: S50M, S50N, S57LVG, S58DX. **SN8V:** SP8GQU, SP8AR, SP8LBK, SO8BGJ. **SP3KN:** SP3AGU, SO3GJO. **SP3PFR:** SP3MGP, SP3FLR, SP3MST. **SP5ZCC:** SP5UAF, SP5TAT, SP5LCC, SO5BPM, SO5EEL, SP5HBT, SO5VJB, SO5EJB, SO5HAB, SO5GRN, SO5BPT. **SP9KDA:** SP6852Z, SP6M0Q, SP9JLE. **SP9KDU:** SP9AVZ, SO9FMM. **SP9KJT:** SP6AXW, SP9IKF. **SP9KJU:** Club. **SP9KRT:** SP9ADU, SP9EMI, SO9FVR.

T9E: Club. **TF3IRA:** TF3AO, TF3BG, TF3PH, TF3RJT, TF3VGT. **UF3CWR:** RV3BR, RZ3AZ. **UN4L & UA9BA:** UP0L: UN9LW, UN7LAN, UN9LO. **UR4WNU:** UR0MM, UR0MZ, UR5MB, US5MXX. **US8U:** UY2U, Bahmach, UT5UDG, UT5UBJ, UT5UPN, US-U153. **UT08A:** UT4AL, UT8AS, UT5AZ, UY1AW. **UT7J:** UR4LRJ, UR4LTX, UR4LUG, US4LW, UY5LW, UX0LL. **UU7J:** UU1JA, UU4JDX, UU4JW, UU4JGR, UU5JBO, UU6JM, UU4JDD, UU8JK, UU0JM, Belka. **UX81X:** UX81X, US81UD, US81BS, US81C. **K17W0:** AK0A, W0R0O, K00U, K0LV, A00L. **V6T1:** JA7HMZ, JA7KAC. **V73AK:** V73A, V73AT, V73CW(A4G), V73GI(K3VN), V73JK, V73UO. **VA3DJL & VA3BER:** **VA3MG & VE3XL:** VA3KA, VA3SK & VA3MW, VA3PC, VE3RZ. **VC5C:** VE5DX, VE5MY, VE5SF, VE5CPO, VE5TP, VE5ZG, VE5CR, VE5RG. **VE2CMH:** VE2FAL, VA2TO, VA2MP, VE2TPE, VE2LOA, VA2TG. **VE2CQ:** VE2ETR, VE2KDC, VE2NZR, VE2GDA, VE2PS, VE2MIG, VE2ARO, VE2JT, VE2MY. **VE2CS1:** K1MW, K1MY, KT10. **VE3DC & VE3AHO:** VE3BK, VE3OCY, VE30ZD, VE3VMO. **VE3KPP & VE3SLI:** **VE3MIS:** VA3UA, VE3XAP, VE30G, VE3IMG. **VE3RM & VE3WIB:** VA2SMF. **VE6AO:** VE6BR, VE6TN, VE6KC, VE6TC. **VE6VS & V01CV:** VE7GAS, VE6AKY, VE6MRT, VE6NAP, VE6VW. **VE7SCC:** Club. **VK4WIL & VK4DZ:** VK4CEJ, VK4FJ, VK4SN. **V02CQ & Others:** **VP5DX:** AB4UF, JM4TE, N4EPD, N4KE, NF4L, NU4Y. **VP5L:** LA4DCA, LA5KO, LA9HW. **VY2SS & VY2L:** W1VE/V01RM, VE9GJ, VE9DX. **W1HR:** W1JCC, W1MD. **W1SRG:** AG1C, KA1VWX. **W2A:** W2XX, N27X, KE2TR, NY6DQ. **W2LC & W1PZ:** KC2GFA, W2UP & W3AKPP. **W3GNQ & N3MIT:** W12T, W3RFC, W3ZT, W3LJ & K3NCO, K8DH. **W4CAT:** N4JN, K1KY, N4POV, W040, K42ENY, K06ID, K400Q, K4BEV, W9W1. **W4MR:** AA4NK, K4MA, K17WX, N4CW, K4HA. **W4SVI:** W3AKI, K4F4PX, K4Q4QT, N00SG, N4LTT. **W4WS:** N4YK, KU4BP, W4M5G, K4CAD, N0KTY, KE4CPO, N4I0Z, W4K0N, K4C4WSK. **W4ZR:** W4FDA, K4CFWS, W4AET. **W6EEN & K6XZ:** W6AQ, N6RT, K6RX. **W6XR/2 & N2AU:** N2RV, W2AD. **W6YRA:** W6FLDO, W6A6YI, K66TZ, K6UT. **W7/KL7CQ & N7PVP:** W7C10G. **W7C10:** KA5IMS, W7ACC. **W7NG & K7R0K:** W7VJ & N7L7. **W9REG:** N9FL, W9FN, K89SS, N9KT, K4LXG. **WB2KH & KB2NOW:** W1M3T & K40KG. **WN90 & K8JP:** K9IG, N9NS, W9UJ. **WS4Y & K4WA:** W40SE, W4TMM, K4B0, K7D7CR, AC0M. **WY3T & W3BDR:** WY7AA: YB0US, XW2A. **YL7C:** YL2MD, YL2EOT, YL2RQ. **YM3WJ:** TA3BN, TA3ET. **YN2EJG:** W5GCX, K5LBU. **YP3A:** Y03ND, Y03PWC, Y03FLR, Y03GDA, Y03GRE, Y03GDO, Y09FJV. **YU11NO:** L. Radosavljevic, S. Radosavljevic, Mladenovic, UY1EK, Golubovic, Zurdzic. **UY7AJM:** 4N27A, Y7TTF, Ivan, Stanislav, Andrej, Paulina. **ZB2X:** YB6W, W6NV, W6N7K. **ZL3DXX:** ZL3NZ, ZL3GA, ZL3GS, ZL3TML, ZL3AK, ZL3AK, ZL3SZ, ZL3ACA. **ZWSB:** PY5EG, PY5CC, PY5GU, PY2K, 4X6TT, LU6ET.

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EZNEC 3.0 is an all-new antenna analysis program for Windows 95/98/NT/2000. It includes all the features that have made EZNEC the standard program for antenna modeling, plus the power and convenience of a full Windows interface. EZNEC 3.0 can analyze most types of antennas in a realistic operating environment. You describe the antenna to the program, and with a click, EZNEC 3.0 shows you the antenna pattern, front/back ratio, input impedance, SWR, and much more. Use EZNEC 3.0 to analyze antenna interactions as well as any changes you want to try. EZNEC 3.0 also includes near field analysis for FCC RF exposure analysis.

See for yourself
The EZNEC 3.0 demo is the complete program, with on-line manual and all features, just limited in antenna complexity. It's free, and there's no time limit. Download it from the web site below.

Pricing - Web site download only: \$89. CD-ROM \$99 (+ \$3 outside U.S./Canada). VISA, MasterCard, and American Express accepted.

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<http://eznec.com>

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.)

SSB RESULTS SINGLE OPERATOR NORTH AMERICA

UNITED STATES

KQ2M/1	A	6,081,879	3449	150	519
N1EU	"	2,497,500	1459	134	491
NT1N	"	2,374,050	1661	137	388
W1AO	"	2,055,168	1515	110	402
K5MA/1	"	1,786,670	1381	116	363
W1KT	"	1,412,896	989	126	410
K1VDF	"	1,346,796	1272	88	308
W1KRS	"	1,158,840	944	107	337
W1TE	"	1,099,584	962	92	322
W1OP	"	1,084,464	994	90	318
				(Op: K1PLX)	
N1API	"	1,049,191	1058	81	296
KK1DX	"	1,024,920	813	113	355
K1UQ	"	939,153	954	81	286
K1CN	"	857,983	629	103	307
W1RH	"	654,075	765	79	244
W1US	"	543,850	621	89	276
				(Op: K1LOM)	
K1BV	"	526,108	734	62	213
AK1N	"	490,032	565	93	239
K1RX	"	470,393	618	64	223
KK1H	"	452,023	581	80	239
N4XR/1	"	444,864	556	82	249
W1OHM	"	300,846	428	75	191
W1MK	"	294,148	466	82	220
N1JW	"	269,132	423	62	182
N1RY	"	259,965	358	64	201
K1RM	"	222,564	420	46	158
W1WFFZ	"	162,981	257	71	202
W1ZZ	"	82,362	196	45	114
AA1KM	"	10,816	136	17	47
KB1CJ	"	8,908	56	25	43
W1NWB	"	4,977	79	22	41
K1RO	28	793,854	1567	36	147
W1CC	"	33,252	133	18	84
K2SS/1	21	1,257,792	2344	38	154
N1HRA	"	105,732	333	29	103
N1CPC	"	26,062	155	20	63
K1QS	14	261,284	614	36	130
W1ZK	"	163,449	411	31	112
WA1MKS	"	62,330	240	27	88
K1LZ	3.7	118,260	551	23	85
K5ZD/1	1.8	736	24	6	10
*K1ZM	A	3,368,010	1907	151	604
*K1VUT	"	1,617,270	1291	110	360
*W1CTN	"	1,452,752	1222	112	364
*KS1J	"	1,391,104	1228	96	322
*WS1A	"	1,148,545	959	105	340
*AE1B	"	1,147,058	1105	92	282
*AA1EY	"	1,069,552	963	100	312
*N1SV	"	940,912	897	101	333
*KA1PRD	"	869,272	859	94	292
*W1DAD	"	849,744	833	93	285
*N1PGA	"	749,990	767	86	284
*N1AO	"	685,470	719	84	281
*N1WK	"	618,510	699	70	248
*K1HT	"	609,528	651	90	237
*W1ZS	"	597,830	709	72	241
*N1RJF	"	594,664	685	78	250
*N1FUS	"	415,916	584	68	214
*N3KC/J1	"	410,496	555	70	227
*K1SD	"	353,028	459	74	218
*W1Q10	"	281,400	495	51	159
*AA1SU	"	270,364	421	68	189
*N1GOU	"	189,003	345	56	172
*N1DS	"	169,433	378	53	158
*W3TB/1	"	152,164	289	59	159
*K1YJ	"	151,353	329	51	150
*N1ZZN	"	146,520	275	58	140
*AB1R	"	132,861	258	60	141
*WA1OFR	"	111,156	276	45	132
*KD1R	"	84,564	215	54	120
*W1PJ	"	84,214	201	41	117
*N1WEZ	"	72,698	249	52	111
*N1HTS	"	27,810	106	29	74
*W1DAR	"	24,947	128	27	74
*KQ1F	"	22,194	107	20	61
*N1VI	"	12,710	71	27	55
*W1TW	"	10,296	82	26	46
*W1TO	"	9,790	66	15	40
*KD1OG	"	9,685	55	22	43
*K1MOM	"	8,757	59	26	37
*KB1EAA	"	6,156	89	28	48
*W1USA	28	454,817	983	36	137
*K1VJSJ	"	75,596	257	27	88
*KY1B	"	26,058	145	22	64
*N1SR	"	25,912	126	20	59
*W1EL	21	204,400	513	29	111
*W61Z	"	16,464	104	11	45
*K1YA	14	10,128	78	11	37
N2NT	A	4,801,572	2928	142	479
N2LT	"	4,166,856	2473	147	459
K2DM	"	3,131,201	2190	124	399

N2MR	"	1,402,704	1113	103	356
N2WU	"	1,400,985	1116	115	374
W2LU	"	1,309,575	1152	112	363
N7UN/2	"	1,221,264	1060	99	333
K2SX	"	844,182	830	88	298
KB2NM/1	"	584,753	572	102	301
W2YE	"	372,900	478	77	223
K2FR	"	356,396	485	68	210
WR2V	"	354,556	523	65	209
W2ZU	"	304,325	491	59	200
K2TV	"	235,488	418	54	189
N2AJK	"	233,298	443	54	180
W2MKW	"	189,056	343	51	160
N2GC	"	115,920	208	61	146
WK2H	"	99,918	236	53	129
W2YV	"	66,755	193	45	124
W2RW	"	62,604	195	51	90
N2SCJ	"	33,768	120	41	85
N2LEB	"	27,474	106	41	73
N2XYZ	"	21,746	112	27	56
K2PWF	"	14,442	74	28	54
N2AM	"	11,455	75	25	54
N2VM	"	9,372	55	26	45
K2ZM	"	2,652	29	15	24
W2RE	28	911,904	1804	34	150
W2FU	21	700,785	1460	38	141
KD2N	"	62,271	243	21	78
N2CU	"	2,250	36	12	18
K2CO	14	69,474	217	33	96
W2VO	1.8	5,500	61	14	30
*NA2U	A	1,926,320	1445	108	376
*W2TZ	"	1,817,712	1420	109	359
*K2CS	"	917,000	989	93	257
*W2EF	"	896,815	845	97	218
*K2JUF	"	673,440	693	90	376
*W2BZTH	"	650,428	551	113	339
*N1BIM/2	"	387,093	468	91	243
*KM2L	"	367,488	538	60	201
*NA2A	"	360,701	482	69	202
*N2KJM	"	241,820	406	52	174
*W2CVV	"	167,334	302	57	171
*W2YK	"	146,222	277	60	126
*N2CK	"	130,849	275	54	165
*W2UV	"	114,492	283	54	134
*W2VU	"	104,130	225	52	126
*N2XG	"	103,113	307	52	119
*K2DBK	"	87,542	221	43	126
*WA2RF	"	82,521	202	41	118
*K2SZ	"	80,364	233	33	106
*W2PQ	"	70,680	176	44	111
*N2LQ	"	63,516	182	39	95
*W2FUI	"	59,280	165	51	79
*K2YSY	"	50,456	147	38	98
*KA2SLC	"	25,397	89	38	71
*WA2BMH	"	21,000	90	20	50
*K2CY	"	16,340	77	30	56
*N2NRY	"	15,652	85	29	57
*W2BIAV	"	14,960	69	32	53
*K2DP	"	10,557	62	22	47
*K2CFYJ	"	9,768	60	20	46
*N2PQW	"	8,340	74	23	37
*AB2JG	"	4,656	42	13	35
*K2MFY	28	240,552	621	33	123
*K2NDX	"	133,309	389	31	102
*K2CF	"	48,216	199	22	76
*W2EH/2	"	17,622	103	18	48
*W2RYW	"	54	19	4	14
*N2MF	21	164,250	440	34	112
*K2BQW	"	117,533	395	24	96
*WA2ASQ	"	8,896	171	20	69
*K2DVD	14	1,530	32	10	20
*W2MF	1.8	1,334	44	8	15

*K3DSP	"	369,234	516	71	210
*N3UN	"	316,680	417	88	224
*K1EF/3	"	315,715	480	49	184
*W3DD	"	295,692	452	65	181
*KE3VV	"	255,151	403	64	183
*W3FM	"	232,386	369	61	170
*W3BEH	"	150,598	310	54	163
*W3CP	"	140,390	289	56	146
*WN3VAW	"	114,318	219	70	149
*W2BZR/3	"	69,654	204	38	98
*K3IRV	"	66,360	191	53	105
*N3QVD	"	61,070	177	45	110
*W3EEE	"	56,426	154	54	124
*N3SEO	"	55,176	158	38	94
*N3EYB	"	43,763	162	28	79
*W3FQE	"	2,240	32	9	26
*WR3L	28	185,920	424	32	128
*N3NT	21	24	2	2	2
K4ZW	A	5,688,640	3322	140	473
W4AN	"	5,622,732	3229	150	476
				(Op: N2IC)	
K4XS	"	5,351,048	3309	152	474
K4AB	"	3,801,438	2332	151	455
N6AR/4	"	2,130,708	1628	114	389
KZ2I/4	"	1,615,184	1243	108	364
WA4TI	"	1,522,071	1129	126	387
*N4POX	"	1,246,392	908	123	381
AG4W	"	1,215,138	1105	96	321
K4YT	"	1,112,335	972	103	324
K4BBN	"	1,045,856	1007	95	297
WC4E	"	1,002,168	1004	94	278
N4UH	"	980,016	933	100	308
K4LTA	"	976,210			

*KW7N	160,576	330	64	129
*KEYRT	140,400	316	66	114
*K7TR	135,546	335	56	118
*N3AIU/7	94,122	324	58	104
*W7QDM	74,620	181	64	118
*KC7WUE	53,449	180	44	69
*N7TL	48,620	160	52	78
*W7YVK	47,524	150	43	66
*W8EQA/7	30,590	129	40	75
*K7OVW	27,435	112	31	62
*W3IBW/7	23,406	122	38	56
*NA7R	21,828	117	31	37
*WB7SWW	160	14	8	8
*K7YAK	83,685	300	28	77
*W7YS	44,283	199	24	63
*K17XA	27,948	146	24	44
*N7XY	9,920	74	22	40
*KK7JS	225,592	529	36	127
*W7UPF	107,715	328	32	97
*KC7KQI	132	11	2	2
*N7FYT	30,268	150	26	66
*KCSAC/7	5,616	49	19	29
*K0ZT/7	2,304	23	16	20
K8DZ	3,732,344	2482	142	439
K2UOP/8	1,274,544	997	118	359
WB8TLI	1,131,038	1016	106	324
K8AO	1,076,154	996	100	302
W8KEN	891,274	872	99	287
K6VWE/8	565,008	662	78	238
N4SEA/8	513,925	600	82	255
K8RS	487,550	607	91	259
NC8V	341,910	559	70	191
W8PG	320,790	485	74	215
N8VX	217,972	394	58	168
K8VW	165,120	366	55	160
W8CS	95,046	205	49	137
W8MHV	84,000	226	35	115
W8KZM	52,173	202	41	112
K8C8ON	43,112	147	40	96
W8BRS	36,062	152	51	95
K3Z/8	687,420	1451	36	135
K8IR	49,140	192	24	66
W8UD	21,266,455	608	37	124
K8TLC	9,344	111	17	47
K8MD	6,664	62	12	37
*K5IID/8	899,370	885	96	294
*N8KM	827,328	823	93	279
*K8FK	773,190	774	92	271
*N8CN	709,664	799	88	243
*K3XO/8	691,782	744	86	276
*K8GT	458,880	543	84	236
*K8BIZ	277,718	445	60	179
*K8LY	256,151	463	71	188
*N8KIE	253,693	377	67	185
*W8VE	179,244	336	66	168
*N8BV	178,256	350	53	155
*K8BK	166,208	310	73	151
*N8NX	165,060	305	62	148
*W8IDM	145,728	293	47	145
*K8BHW	145,700	299	48	140
*AK8B	91,692	219	45	117
*K8VUS	83,721	217	49	128
*N8EN	48,375	174	35	94
*N8NGT/8	34,440	143	30	93
*W8MKO	33,695	131	30	85
*N8XWO	28,112	111	41	71
*N8NYI	28,112	123	23	58
*K8CV	23,958	92	32	67
*K8F	15,575	74	33	56
*K8AJXG	7,544	62	31	51
*K8BJYU	7,378	59	18	44
*K8BCX	660	11	11	11
*N8WEL	294	10	6	8
*W8UMR	106,941	338	26	97
*K8AJS	60,027	211	22	85
*W8KNO	47,830	242	25	54
*K8BTT	45,687	191	23	74
*NG3Q/8	185,000	479	32	116
*K8BWLQ	101,402	331	23	92
*AD8J	45,570	185	23	70
*K8BLM	28,106	201	24	70
*AB8JR	24,360	123	24	63
*N8WDH	10,296	106	19	53
*KE4VYZ/8	2,080	27	10	22
*K8DO	2,288	97	7	9
W9RE	5,287,976	2900	157	510
W9Z	3,624,410	2288	143	443
K9NW	3,524,125	2194	149	456
K9BGL	2,039,151	1470	131	388
NA8V/9	1,385,550	1142	114	336
K9SD	1,139,054	1052	113	300
K9MWM	674,532	875	107	262
K9BGRY	604,835	603	101	284
N2BJ/9	549,189	513	105	312
N9QK	447,760	603	69	221
W9GXR	376,915	500	72	224
K9ZO	362,304	458	92	214
NF9V	361,746	508	73	188
K9UQN	331,059	493	68	199
W9VA	314,820	439	69	196
N9PQU	252,255	293	77	258
AA9TB	236,880	417	54	181
K9MI	235,855	396	53	162
W9BCV	208,772	359	77	191
K9XV	139,302	299	58	155
K9GN	121,800	380	36	80
W9GIG	121,500	195	74	176
KF9YR	106,428	238	53	128

K9FC	101,736	302	39	123	
N9GS	93,795	203	57	128	
W2USA/9	61,440	175	39	89	
K9RSW	43,197	127	44	75	
W9BZP	37,380	134	17	72	
K9SPQ	17,255	129	31	54	
K9JC	6,916	53	21	31	
K9LU	305,064	812	34	118	
W9OP	197,428	491	34	120	
W9OF	177,285	389	34	125	
W9YWG	167,524	451	31	113	
K9YNF	14	107,152	405	30	109
N9HCA	97,776	357	29	97	
WD9FEN	11,200	96	22	42	
K9CJ	4,608	50	8	28	
*N9UA	809,571	760	98	301	
*K9QVB	620,224	773	90	262	
*599.005	724	82	244		
*K9YA	437,980	571	79	226	
*N9REP	220,805	393	59	156	
*WA9Z	204,972	392	59	169	
*NG9L	187,480	328	56	162	
*NV8V/9	179,025	368	63	154	
*K8BK/9	120,384	293	62	136	
*W9EV	79,453	216	41	111	
*K8BJF	76,877	404	60	150	
*W9TU	67,925	180	45	98	
*N9FWM	52,787	451	39	89	
*W9LYN	52,096	160	58	90	
*AA9NF	42,478	144	46	88	
*N9KT	41,375	149	43	82	
*W89BSH	38,499	124	37	86	
*W9WU	26,322	115	35	72	
*W9JHL	24,684	99	34	68	
*N9BRO	15,397	83	30	59	
*W9LNO	7,805	62	19	52	
*K9E9E	5,126	61	24	54	
*N9WV	2,135	26	15	20	
K9E9R	28	261,807	725	32	115
*W9MG	151,257	423	27	100	
*W9GG	117,900	365	28	103	
*N9HDE	21,063	123	15	44	
*N9ALC	100	7	2	6	
*KA9CBJ	100	4	3	4	
*W9IYL	44,838	199	23	71	
*K9AB	38,311	152	25	66	
*K9FVJ	16,929	119	22	59	
*K9GX	18,150	106	18	57	
K8DU	1,538,432	1481	122	326	
W8GG	1,435,070	1195	119	336	
W8JF	1,026,172	929	119	350	
K8GAS	750,546	764	102	267	
K8GAS	602,875	709	95	230	
K8GDF	435,550	608	72	209	
K8JJ	419,254	500	105	218	
K8BENE	381,351	463	90	227	
W8ZP	295,289	519	74	165	
*W8IDM	282,816	399	79	209	
K8CAT	256,932	419	60	184	
*W8PPF	161,836	300	64	160	
K8JGH	149,695	292	78	157	
*W8OSK	128,112	263	73	131	
W8HED	109,630	213	61	129	
W8JEL	106,414	237	48	127	
K8FG	51,867	143	49	104	
AA8ZZ	7,490	61	29	41	
K8GL	28	677,022	1543	34	125
W8DR/8	423,228	972	34	122	
*N70ET	19,126	110	20	53	
K8GBZ	21	269,192	823	32	101
K8BSS	14	174,113	509	35	122
N8XRA	7	40,800	165	25	75
K8JKA	36,955	154	24	71	
*K8VQ	1,726,041	1308	138	361	
*K8QUK	1,330,560	1100	135	345	
*AC8W	1,289,925	1136	111	330	
K8ZOC	406,900	519	94	231	
*W8ETT	374,312	550	86	198	
*AK8M	293,372	414	86	198	
*K8CF	231,336	371	65	173	
*K8VM	221,117	426	60	173	
*N8NF	190,526	336	60	157	
*K8SQ	173,400	336	56	148	
*N8WY	146,034	321	50	133	
*K8RL	136,884	287	49	140	
*WA8DCB	129,204	290	54	140	
*K8DAT	119,101	242	59	147	
*K2DT/8	110,224	234	66	139	
*K8BWPY	48,440	139	54	86	
*K8JET	35,520	147	39	81	
*NE8P	31,824	118	37	67	
*N8LZ	19,992	84	37	61	
*N24DX/8	13,202	84	35	47	
*KA8EIC	9,150	65	30	45	
*K88ZPP	725	18	12	13	
K9ORS	28	262,860	645	35	121
*KA8DX	84,439	275	28	93	
*W8DQGA	5,508	58	23	45	
ALASKA					
K8LPG	8	8	5	3	
*K8L7FAP	59,092	347	26	42	
BARBADOS					
8P1A	A12,136,203	8030	141	480	
8P6EX	522,100	1126	67	160	
*8P6SH	1,337,588	2023	85	237	

BRITISH VIRGIN ISL.					
*VP2VF	28	598,680	2271	31 89	
CANADA					
VO1WET	A	1,843,626	2153	71	256
VE1OP		1,173,620	1280	97	307
VO1SA		939,792	986	70	266
VY1JA		85,587	287	61	80
VE1JX	14	269,169	856	30	111
(Op: K6HNZ)					
VE1ST	3.7	43,727	302	14	59
XM1JF	1.8	9,361	227	9	14
(Op: VE1JF)					
*VE1JS	A	713,280	819	76	244
*VE9WH		547,560	640	88	263
VE2CQW		42,818	362	28	51
VE2PJ	21	250,272	610	34	124
*VE2AYU	A	1,177,050	1155	94	319
*VE2GSO		885,750	1537	65	185
*VE2AWR		677,976	867	71	247
*VE2XID		175,474	390	54	167
*VA2IC		71,995	369	34	85
*VE2OCP		21,049	120	34	63
*VE2QY		15,732	100	30	39
VE3OI	A	4,916,913	3331	136	437
VE3AT		2,577,498	2079	101	361
VE3ANX		293,904	804	40	117
VE3KZ	28	610,986	1430	32	126
VE3CFK		59,985	184	29	100
*VE3STT	A	1,363,648	1249	98	318
*VE3OTL		1,225,456	1283	100	301
*VA3SWG		654,082	996	73	213
*VA3VR					

*HA9MDP 21	285,289	1116	28	104	*IK4CBM	*	9,882	97	16	38	*Z31B	21	169,740	759	31	107	*SP9LAS	*	290,472	510	78	234	*Y04KCC	*	30,888	339	18	60	
*HASCOK	40,330	183	24	85	*I2BPP	*	9,250	55	28	46	*Z35A	3.7	31,570	487	14	63	*SP5ICS	*	251,460	536	61	193	*Y06JAU	*	24,960	104	21	65	
*HA3TLT	11,526	120	14	37	*IK2PTL	*	780	49	24	36	MALTA				*SP3PL	*	210,900	491	75	225	*Y08COK	*	24,440	171	30	74			
ICELAND					*I1GXV	28	363,375	149	19	51	*9H1DE	A	287,523	1066	49	158	*SQ4CUX	*	190,876	562	58	180	*Y03CVG	*	14,168	72	35	53	
TF3CW 14	549,807	1963	31	100	*IK5EKB	*	300,465	851	34	131	MOLDOVA				*SP8OON	*	173,774	497	70	175	*Y08DHD	*	9,638	79	21	40			
*TF3FK	100	3	3	3	*IU1W	*	204,680	727	34	106	ER0ND	A	2,417,688	2579	119	373	*SP1MVG	*	157,471	436	57	199	*Y05AEX	*	4,180	50	18	37	
IRELAND																*SP6FXV/6	*	156,373	413	61	190	*Y09GJY 28	235,587	345	31	60			
E18GS 28	496,278	1761	34	124	*I7FMN	*	112,332	562	29	82	NETHERLANDS				*SP1HTS	*	156,299	376	64	164	*Y06BHN	*	89,835	258	36	123			
E18IC 21	356,535	1370	28	111	*I2ARC	*	97,807	342	30	102	PA0JN	A	1,078,350	1799	84	311	*SP9NSJ	*	129,896	365	50	139	*Y03NL	*	51,415	199	32	99	
*E17GL	799,006	1164	77	312	*I0QA	*	48,112	256	23	74	PA0AGA	A	1,059,428	1682	91	280	*SP4CJA	*	123,768	468	43	148	*Y05TP	*	43,834	197	28	73	
*E14DW	279,070	1173	23	95	*IZ0BTY	*	42,240	240	24	64	PA0RRS	A	2,082,515	665	57	202	*SP20VQ	*	123,552	388	57	151	*Y06ABW	*	18,176	108	22	49	
*E14CF	226,240	767	33	107	*IK5YJK	*	38,808	224	23	61	*PA0RRS	A	2,082,515	665	57	202	*SN4AAZ	*	108,847	308	52	158	*Y07KBS	*	9,396	92	14	40	
*E16FR	392,657	1451	33	124	*IK5JUC	*	12,749	101	19	42	*PA0RRS	A	2,082,515	665	57	202	*SP6IEQ	*	100,109	238	56	124	*Y04RSS	*	8,850	85	18	41	
ITALY					*IZ8BAD	*	8,040	121	23	44	*ER5DX	*	820,512	1079	101	343	*SP9XUE	*	67,830	223	57	148	*Y03JW 21	160,704	792	35	109		
IK4ADE A	2,637,855	2566	113	382	*IK20AJ	*	5,232	68	18	30	*ER3CT	*	203,315	645	62	197	*SQ8GBN	*	65,331	257	47	113	*Y05KOP	*	77,748	450	26	88	
IQ6T	1,959,488	2133	127	417	*IR5T	21	698,202	2115	34	124	*ER1BF	*	54,600	201	46	129	*SQ8FEW	*	65,108	190	46	118	*Y06FNA	*	23,736	114	27	59	
IQ8A	1,672,648	2861	100	319	*IZ4AFW	*	186,912	706	28	104	*ER2GR	1.8	2,898	75	7	39	*SP6RGC	*	58,646	283	36	106	*Y04BBJ	*	12,719	80	20	59	
I24COW	1,652,544	1935	107	346	(Op: IK6SNQ)						NORTHERN IRELAND				*SP7JQQ	*	58,282	160	50	131	*Y04UB	*	11,700	235	14	38			
IK6JNH	828,723	1087	90	309	*I07A	14	466,830	1482	38	133	GI0KOW	A	1,641,046	3880	40	154	*SP3XR	*	55,515	192	46	109	*Y05BHG	*	1,075	35	7	18	
IK2DJA	484,225	1199	46	129	*IK8YGV	*	81,875	358	29	96	*GI0KVV	A	1,382,850	1992	84	266	*SP9FT	*	51,993	216	43	116	*Y02BEH 1.8	7,964	210	6	38		
IZ0BVU	428,238	890	93	240	*IK9CCW	*	39,440	812	35	101	*GI4SIZ	*	242,730	492	59	211	*SP6KFA	*	48,984	262	35	122	SAN MARINO						
IK6GPZ	346,462	736	60	151	*IZ8BGY	*	32,395	323	21	74	*GI0OUM	*	66,230	312	36	143	*SP2MKT	*	48,412	174	41	92	*T77CD	28	454,584	1740	35	106	
IK3WMT	341,432	762	69	199	*IQ5B	3.7	21,080	379	9	53	*PA5CM	*	141,150	397	51	150	*Z6V	*	26,624	139	36	68	SARDINIA						
IV3ARJ	275,616	521	71	248	KALININGRAD							*PA0KDM	*	109,996	311	59	155	*SP9LDI	*	19,000	166	25	70	*IS0IGV	A	330,940	760	61	181
IK0AZG	271,776	802	49	103	*RV2FW	A	656,437	1126	89	312	*PA1TT	*	72,954	229	57	136	*SQ9AOR	*	18,525	139	21	36	*IS0CLA	A	100	14	9	11	
I26CLN	234,300	586	63	157	*UA2CZ	A	269,555	576	84	235	*PA3HZ	*	17,460	99	31	59	*Z3ZCQR	*	15,143	270	26	44	SCOTLAND						
IK2WZQ	234,140	423	68	162	LATVIA							*PA3AL	*	10,206	52	32	49	*SP7DQR	*	5,858	37	24	34	MM0LEO	A	107,254	840	43	120
IK8IFW	111,300	452	40	119	YL2KO	A	2,656,080	2633	118	409	*PA0LRK	*	9,545	80	23	60	*SP6PAX	*	58,646	283	36	106	GM0AZC	28	137,195	320	29	86	
IK7UKF	107,520	382	55	185	YL2SM	A	2,029,200	2281	120	336	*PA0FEI	*	7,350	95	18	52	*SP7JQQ	*	58,282	160	50	131	*GM0FET	A	793,650	1267	78	292	
IK0YUT	102,600	273	59	169	YL7A	A	1,946,518	2094	124	417	*PA9JJ	28	115,258	410	34	109	*SP3XR	*	55,515	192	46	109	*GM3BCL	A	755,758	1137	78	258	
IK8YFU	95,764	341	47	131	YL2P	*	40,379	116	57	92	*PA0JNH	*	57,500	325	22	70	*SP9IKN	*	2,837	90	30	62	*MM0BRJ	A	487,259	1017	69	224	
IK2VUC	46,530	168	50	91	YL3CW	28	822,759	2137	40	153	*PA1AW	*	35,526	203	26	67	*SP9X	*	2,378	40	14	27	*MM5AUG	A	266,074	596	60	221	
IK8IOP	40,299	235	33	100	*YL2GN	A	617,293	1067	97	282	*PA0JR	*	28,900	153	22	63	(Op: SP9XWD)						*GM0CLN	A	59,696	258	37	127	
I22ADH	30,747	149	38	73	*YL2PK	*	237,272	441	76	190	NORWAY				*SQ3GNA	*	2,124	239	47	130	*GM40BK 28	46,080	261	23	67				
IK5ZTT	30,552	204	29	85	*YL2PN	*	31,992	204	29	95	LA2WHA	A	379,589	827	62	195	*SP5CGN	*	1,036	25	13	15	*MM2R	A	38,976	222	19	67	
IK7YZF	20,416	137	30	58	*YL2GD	28	131,064	445	34	93	LAT1NG	A	189,329	463	63	196	*SP6WPY	*	561	11	8	9	*GM4FDM 21	508,536	1589	40	128		
I25BSA	2,242	50	9	29	*YL3BZ	*	39,270	174	23	82	LA4EU	A	139,471	401	51	160	*SQ9HYM	*	196,236	663	32	106	*GM0IO	A	50,499	394	20	73	
IY4W	28	1,110,720	2564	40	155	*YL2GT	*	20,164	174	18	53	LA7VK	A	10,760	91	17	23	*SP5IVC	*	188,038	571	33	116	SICILY					
IQ3X	762,476	2085	37	135	*YL2NK	*	7,254	77	16	46	LA9AU	A	594	25	8	19	*SP5LCC	*	168,046	508	34	112	IT9JOF	A	506,766	819	81	186	
IR4B	625,680	1562	38	138	*YL2AS	*	2,584	49	10	24	LA6YEA	28	531,456	1252	40	152	*SP5RCL	*	153,700	517	33	112	*IT9GAC	A	67,437	214	45	132	
IK1RLI	549,757	1472	35	134	*YL2BJ	21	80,736	431	26	90	*LA2HFA	A	116,624	401	47	150	*SP6EJ	*	121,407	339	36	107	*IT9RYJ	21	251,328	996	33	121	
I28ANA	402,280	1104	38	140	*YL1ZJ	*	10,653	104	16	51	*LA1PHA	*	75,040	244	45	115	*SP7FDV	*	41,370	160	29	76	*IT9STX 14	600,935	1969	34	121		
I22AVK	211,530	616	38	127	YL1ZF	14	22,646	297	14	53	*LA6HJA	A	21,851	194	25	68	*SP8O0B	*	26,330	235	27	65	*IT9ICS	*	207,992	1148	26	91	
IK40JM	160,398	658	30	84	LITHUANIA							*LA2MJA	28	80,721	369	27	90	*SP2FWC	*	20,664	116	27	57	SLOVAK REPUBLIC					
IK4WMM	70,840	302	31	79	LY7Z	A	4,828,784	3658	155	557	*LA5YV	*	8,437	64	14	45	*SP9OYT	*	15,360	126	22	42	OM8A	A	5,614,668	4131	145	487	
IK2DUU	857,140	2229	38	132	LY6M	*	4,470,060	3904	132	448	*LA5UW	21	131,261	594	38	63	*SP6TRH	*	10,094	84	17	32	(Op: OM3RM)						
IK5ZTW	574,102	1887	37	114	LY2YJ	*	3,151,491	2616	148	503	*LA4GIA	A	97,539	427	24	99	*SP5IEM	*	6,045	59	16	23	OM3NA	*	2,985,794	3091	104	315	
IK2WMT	421,960	1238	37	117	LY2CY	*	1,398,262	1470	117	421	*LA5LJA	A	66,274	321	29	98	*SP6CXH	*	480	10	7	9	OM3IAG	*	1,042,320	1607	102	328	
IK3UMT	125,706	422	34	112	LY2MW	*	774,350	1184	97	328	*LA7TN	*	35,112	317	17	67	*Z9XCN 21	299,884	1057	36	122	OM3CW 21	185,287	704	34	105			
I6FLD	394,949	1377	38	125	LY2MY	*	574,351	782	89	272	*LA2DKA	14	4,922	88	13	33	*SN4T	*	211,896	810	38	124	*OM6T	A	1,387,770	1881	119	382	
IK2YSA	180,621	857	31	110	LY40CX	*	219,604	505	65	152	*LA8WG	3.5	4,469	94	7	34	*SP9JZT	*	63,946	344	19	80	(Op: OM5AW)						
*IK4I0B	846,144	1239	97	319	LY2GF	28	481,860	1364	39	141	POLAND				*SP9JZT	*	63,946	344	19	80	*OM4DN	*	452,760	821	79	264			
*IK2SAI	666,587	997	81	266	LY40OU	*	285,923	844	36	132	SP9W	A	2,141,305	2481	129	416	*SP9ZVE	*	19,206	167	17	49	*OM8DD	*	277,530	535	83	247	
*I3MLU	511,903	752	84	253	LY3CI	*	205,200	578	34	116	(Op: SP9HWN)				*SP8EEX	*	10,004	124	21	61	*OM7AG	*							

*S57NPR	10,335	214	7	46	*EA5KV	203,354	851	34	113	UT5JDS	466,908	615	91	347	*YT1AT	394,910	936	87	200	PHILIPPINES					
*S57NMQ 1.8	17,985	351	7	48	*EA1AK7	188,580	732	30	110	UR5E	318,835	548	93	248	*YU1BO	77,074	322	41	143	DU9RG	A 3,239,659	2686	140	303	
SPAIN					*EA3RA	174,676	857	28	111	UT7MD	121,312	281	55	168	*YU1ZZ 28	685,520	1763	38	138	DUNXE	27,380	147	33	41	
EA4KD	A 3,673,593	3134	125	442	*EA5VQ	137,061	448	35	122	UT4EO	91,390	327	47	143	*YU7KM	50,459	246	27	67	*DU1DX	28	39,596	206	24	52
EA5DFV	" 2,899,230	2891	106	376	*EA7AKJ	135,850	736	28	82	UU9JFA	76,314	196	55	103	*YU1AAX 21	71,820	525	23	72	TUVALU					
EA3ELZ	1,567,450	1679	103	367	*EA5AJX	88,335	376	28	82	UT5JAP	46,056	124	55	97	*YU7DYZ	10,890	130	15	40	*T2DX	A 133,032	322	75	109	
EA1HJ	1,546,796	1993	88	303	*EA2JE	77,066	296	27	86	UR5ETN	34,056	244	25	107	*YU1AAT	1,598	26	13	21	SOUTH AMERICA					
EA1UX	1,182,930	2410	68	190	*EA5IC	20,713	132	20	57	UR4E	6,290	46	29	45	*4N7B	14 258,417	943	36	117	ANTARCTICA					
EA1DAX	599,430	1037	68	222	*EA1CXH	14,820	119	15	50	EN1Z	28 933,984	3119	40	167	*4N8/LZ1BJ	7,360	157	7	39	EM1U	A 304,911	596	67	140	
EA1YB	588,111	926	77	214	*EA5A0M	14,350	85	21	49	UT2IW	" 565,824	1605	39	153	*YU1ACS	3.7 42,408	525	13	63	ARGENTINA					
EA1MK	516,246	854	75	203	*EA1BZP	13,851	127	15	42	EM7Q	" 435,022	1523	36	125	*4N7ZZ	1.8 15,984	307	7	47	LU6EBY	A 2,066,820	2040	106	274	
EA3AQQ	455,240	819	82	298	*EA7BYM	10,380	108	7	53	EM8I	" 237,336	1048	36	109	CHILE										
EA5EG	50,078	172	45	101	*EA3BIM 21	260,709	1174	33	108	EN7M	" 211,974	817	34	113	VK5GN	A 3,494,205	2868	123	306						
EA5GMA	41,210	185	41	89	*EA1BIM	95,886	478	29	97	UT5UW	" 206,063	785	34	109	VK1JDX	" 208,582	445	73	136						
EA4CEN	17,576	101	32	72	*EA3KA	87,390	478	22	68	UX4DMP	" 137,367	299	65	118	VK4DMP	" 89,474	242	55	99						
EA1DFP	16,362	66	41	60	*EA2BLK	81,314	418	24	85	VK2BCQ	" 165,100	590	31	69	VK4IU 21	165,100	590	31	69						
EA3AEK	6,216	97	22	52	*EA3KT	70,638	344	25	90	VK3DZM 3.7	20,020	223	17	27	VK3DZM	A 1,203,124	2061	83	138						
EA5DFX	4,212	102	12	27	*EC2ADR	69,608	450	25	88	UT1YV	" 22,592	194	19	45	VK30J	" 49,692	246	28	54						
EA3UKJ 28	862,663	2048	40	157	*EA5VR	54,884	432	21	92	US9QA	" 9,295	129	16	49	*VK2ARJ 28	479,987	1601	33	79						
EA3QP	" 825,528	2108	38	139	*EA1CBX	53,445	269	21	84	UZ7U 21	541,242	1783	37	125	*VKAUC	" 431,900	1094	36	104						
EA4WF	" 388,825	1159	36	115	*EA5WV	52,985	282	21	69	UT0H	" 444,132	1677	38	131	*VK8DK	" 100,362	444	29	57						
EA7HBP	210,456	1085	27	84	*EA1BP	52,807	307	23	81	UT5RF	" 229,596	767	37	122	*VK2HV	" 87,087	422	27	50						
EA3DUZ	136,492	388	34	114	*EA1FF	49,280	395	17	71	UR6J	" 141,713	589	30	113	*VK2EM	" 45,990	266	25	45						
EA1JJ	105,444	462	28	73	*E04DFA	31,266	307	19	66	UX6F	" 114,352	949	26	86	*AXHZ 21	373,932	1183	36	105						
EA3BCP	61,098	331	28	74	*EA5TN	26,394	177	19	70	UT0H	" 444,132	1677	38	131	*VK4EMM 14	667,056	1533	36	120						
EA1QA	37,742	164	25	88	*E02AUS	25,620	225	19	65	UT5RQ	" 229,596	767	37	122	*AX3TZ 7	36,096	216	24	40						
EA3IN	21 495,001	1507	36	133	*EA5IT	21,918	220	18	60	UR6J	" 141,713	589	30	113	BELAU	A 753,675	1430	71	124						
EA1JO	119,327	508	31	106	*EA1ASC	18,177	155	19	64	UX1VT	" 5,750	114	8	38	T88GQ	A 753,675	1430	71	124						
EA3BO	3.7 31,080	341	12	62	*EA4DKS	10,512	126	15	58	E06F 1.8	23,954	434	8	51	T88WX	28 966,884	2469	36	103						
EA1AUT	17,088	219	11	53	*EC3BMT	9,514	120	14	53	UR6QA	" 13,794	283	9	48	V8A	21 1,773,756	3610	38	136						
EA5AT	1.8 7,191	180	5	42	*EA4JAP	58,520	377	21	74	UT0H	" 444,132	1677	38	131	BRUNEI										
*EA3GEG A	1,426,964	1540	106	345	*EA3APP	20,532	129	16	71	UR6QA	" 13,794	283	9	48	EAST MALAYSIA	A 7,091,763	4326	153	444						
*EA3CI	" 1,099,640	1502	85	285	*EA7HEJ	7	304	13	42	*UT1QW A	1,038,189	1642	97	304	FRENCH POLYNESIA	A 129,898	441	46	61						
*EA1AJV	" 894,725	1450	70	255	SWEDEN					*UR2E	" 734,195	1493	93	292	GUAM	A 129,898	441	46	61						
*EA3GHZ	" 876,842	1342	90	287	SL3A	A 3,057,525	2936	116	419	*UR5MID	" 593,056	1044	87	257	KH2/W7LP	21 359,579	1360	31	66						
*EA7RU	850,150	1276	81	266	7S5A	" 2,472,070	2509	142	443	*UX5UO	" 546,048	718	106	326	KH2/KH0R	14 253,800	880	33	75						
*EA1BPO	848,704	1465	70	228	SM6WQB	" 569,036	1093	74	279	*UT5UJAG	" 340,200	611	82	242	HAWAII										
*EA6BFK	741,321	1346	63	224	SM3LIV	" 268,794	623	64	210	*UT5HA	" 298,875	448	93	282	AH60Z	" 2,831	73	11	8						
*EA5EOR	710,391	1036	78	285	7S0Z	" 235,620	515	66	189	*UT3QT	" 289,513	679	71	227	AH7C	21 383,418	924	37	116						
*EA7IA	635,245	926	94	283	SM3AF	" 58,650	359	39	111	*UX3M	" 269,326	616	71	240	WH7/N6ND	" 163,134	526	36	78						
*EA3ASX	579,626	802	83	270	SM3FJF	" 4,743	57	14	17	*UT4T4	" 260,766	592	69	228	KH6FKG	7 142,419	818	24	44						
*EA7HCU	522,548	817	79	259	SK0UX	28 809,172	2256	37	134	*UR5WIF	" 188,074	429	71	200	KH6FKG 1.8	1,001	52	6	5						
*EA7AJR	403,650	807	62	208	7S2E	" 385,624	1445	39	133	*US0YA	" 157,560	299	71	189	*KH6GMP A	1,014,244	1984	67	111						
*ED5ASF	345,344	685	69	235	SM2CEW	" 79,871	302	32	105	*UY5TE	" 147,994	490	46	171	*KH6/KT7G	" 6,952	62	21	23						
*EA4BSC	299,150	510	77	233	7S2A	" 50,752	209	25	97	*UT5UML	" 110,292	345	49	133	*KH7L	A 11,894,730	7473	170	392						
*EA1IF	269,403	679	61	206	SM7GUL	" 12,096	115	20	44	*US7IA	" 91,005	314	55	130	AH60Z	" 2,831	73	11	8						
*EA1OT	250,210	731	51	140	SM3BIB	" 491,600	767	93	207	*UR7EM	" 60,444	298	42	96	AH7C	21 383,418	924	37	116						
*EA1ET	236,750	558	60	190	SM3LIV	" 268,794	623	64	210	*UT5UJAG	" 340,200	611	82	242	WH7/N6ND	" 163,134	526	36	78						
*EA5OB	231,071	580	48	171	7S0Z	" 235,620	515	66	189	*UT5HA	" 298,875	448	93	282	KH6FKG 1.8	1,001	52	6	5						
*EA1AUM	226,572	542	58	181	SM3AF	" 58,650	359	39	111	*UT3QT	" 289,513	679	71	227	*KH6GMP A	1,014,244	1984	67	111						
*EA1APS	198,334	526	50	141	SM3FJF	" 4,743	57	14	17	*UX3M	" 269,326	616	71	240	*YU1AT	" 394,910	936	87	200						
*EA3ASS	189,295	328	74	215	SK0UX	28 809,172	2256	37	134	*UT4T4	" 260,766	592	69	228	*YU1BO	" 77,074	322	41	143						
*EA3AGB	157,247	356	56	125	7S2E	" 385,624	1445	39	133	*UR5WIF	" 188,074	429	71	200	*YU1ZZ 28	685,520	1763	38	138						
*EA5CY	155,820	477	57	153	SM2CEW	" 79,871	302	32	105	*US0YA	" 157,560	299	71	189	*YU7KM	50,459	246	27	67						
*EA1NK	146,055	382	57	138	7S2A	" 50,752	209	25	97	*UY5TE	" 147,994	490	46	171	*YU1AAX 21	71,820	525	23	72						
*EA1SH	136,512	400	53	163	SM7GUL	" 12,096	115	20	44	*UT5UML	" 110,292	345	49	133	(Op: YTI1RX)										
*EA5FEJ	118,628	343	56	90	SM6WQB	" 569,036	1093	74	279	*US7IA	" 91,005	314	55	130	*YU7DYZ	10,890	130	15	40						
*EA1UJ	114,453	617	30	111	SM6DOI 1.8	35,295	551	10	55	*UR4EI	" 43,415	218	44	141	*YU1AAT	1,598	26	13	21						
*EA3DUW	98,943	359	45	132	*SM4IOA A	710,424	1140	80	271	*UR4QSG	" 37,829	247	23	66	*4N7B	14 258,417	943	36	117						
*EA1FC	94,800	247	47	111	*SM7BHM	466,470	833	71	284	*US3WD	" 29,512	121	48	88	*4N8/LZ1BJ	7,360	157	7	39						
*EA3DQT	93,575	345	47	150	*SM2KAL	395,046	876	72	234	*UY2ZA	" 24,168	139	29	71	*YU1ACS	3.7 42,408	525	13	63						
*EA1RH	90,780	405	46	132	*SM2T	346,115	662	73	246	*UX3MR	" 14,229	144	22	71	*4N7ZZ	1.8 15,984	307	7	47						
*EA1GL	80,411	244	54	137	*SM7ATL	235,014	463	68	194	*UT5UKY	" 13,359	98	28	56	*YU1AT	394,910	936	87	200						
*EA4CER	79,103	279	38	140	*SM7GXK	221,855	524	67	215	*UZ5Q	" 5,250	66	30	45	*YU1BO	77,074	322	41	143						
*EC3ALV	75,660	335	33	97	*SM2EKN	181,260	588	46	182	*UT7QL 28	180,880	705	34	118	*YU1ZZ 28	685,520	1763	38	138						

PY2SBY	*	528,272	1485	30	107
PW2A	*	241,200	616	33	117
PY5M	21	2,439,954	4313	40	158
		(Op: N6TU)			
PP5JD	*	955,479	2196	35	138
PP5UA	*	346,492	1296	29	87
PQ5W	14	678,937	1984	34	127
		(Op: PP5WG)			
ZV80	7	55,980	350	18	42
		(Op: PV8DX)			
*ZX2B	A	3,832,812	3234	104	310
		(Op: PY2MNL)			
*PY2YU	"	3,156,234	2744	113	313
*PY2NY	"	2,768,238	2726	95	274
*PY5HSD	"	956,630	1399	72	199
*PP2RON	"	528,827	788	67	180
*ZV5V	"	235,616	520	59	140
		(Op: PP5VB)			
*PY7ZY	"	216,464	507	42	124
*PT2AW	"	209,405	511	50	105
*PY2RAF	"	196,560	393	61	128
*PQ7Q	"	127,820	311	57	109
		(Op: PY7IQ)			
*ZY5S	"	100,980	323	65	139
		(Op: PY5GVC)			
*PY2DJ	"	96,036	315	56	103
*PY2AER	"	87,431	266	41	98
*PY2PT	"	84,364	264	53	108
*PY7YL	"	68,382	209	47	84
*PT2OI	"	60,000	210	47	103
*PP5EB	"	58,644	222	40	68
*PTZAA	"	50,197	283	17	54
*PT2HF	"	38,784	150	39	89
*PW7Z	"	34,375	214	43	82
*PY1WAG	"	29,760	121	38	58
*PT2PC	"	25,200	106	41	79
*ZV8I	"	20,300	289	14	14
		(Op: PV8IG)			
*PY2SRL	"	10,465	63	32	33
*PP5AM	"	8,349	43	27	42
*PY1AFS	"	5,704	58	18	28
*PP4K	28	518,700	1296	34	106
		(Op: PY48K)			
*PY20F	"	506,152	1311	36	115
*PY2LED	"	399,399	1186	31	102
*PY2XAT	"	388,056	1076	36	116
*PS7HF	"	344,424	1104	31	96
*PY5JO	"	220,752	851	27	85
*PY4DBU	"	211,468	705	31	85
*PY3AN	"	171,716	673	25	75
*PU2PGR	"	136,332	530	32	94
*PP5CN	"	120,120	440	27	83
*PY2NDX	"	110,760	435	29	75
*PSS5	"	89,354	426	23	63
		(Op: PP5M0)			
*PU2YDX	"	79,079	390	17	60
*PY2KPY	"	67,774	333	31	72
*KR2D	"	57,768	381	22	36
*PT2/KC2BAA	"	56,547	356	15	46
*ZY7W	"	53,675	237	28	85
		(Op: PT2ND)			
*PR7FN	"	42,148	250	20	62
*PU2WDX	"	37,024	203	24	65
*PU2TES	"	33,300	222	24	55
*PY1ZT	"	18,344	310	20	45
*PY3DJB	"	13,420	89	21	40
*PU5CMA	"	11,460	108	19	41
*PY7VI	"	11,385	116	19	50
*PY2TST	"	11,110	99	18	37
*PU7ENW	"	10,584	113	10	32
*PY3AUB	"	10,094	95	17	32
*PU2VYT	"	7,208	95	16	18
*PU8PYK	"	5,424	48	12	36
*PY7BR	"	1,640	39	14	26
*PU7EUA	"	1,302	38	11	20
*PY2LEU	"	588	20	5	9
*PU7EEL	"	100	12	6	11
*PY2P	21	789,150	1902	34	116
		(Op: PY2T0)			
*PY2NW	"	259,740	774	30	100
*PY3FBI	"	105,412	415	30	71
*PY3PA	"	1,508	31	13	13
*PY3ASM	"	1,160	49	10	10
*PY4NF	"	336	11	7	7
*PR7AR	14	65,790	311	23	63
*PS8DX	"	35,280	178	18	62
*PY5DC	"	11,592	83	19	37

ECUADOR					
*HC10T	A	4,294,830	3276	115	363
*HC1JQ	28	2,158,488	2280	37	142
FALKLAND ISL.					
VP8ON	14	13,860	124	18	24
FERNANDO DE NORONHA					
PY0FF	7	575,910	1608	31	104
GALAPAGOS ISL.					
HC8A	A	18,122,040	9160	163	547
		(Op: N6KT)			
PARAGUAY					
ZP5CGL	A	364,720	758	62	126
PERU					
OA4SS	28	814,755	2039	31	114
SURINAME					
PZ5JR	A	7,066,624	4791	141	395
		(Op: OH9XX)			
TRINIDAD & TOBAGO					
9Y4NZ	14	1,757,349	3529	36	147
URUGUAY					
CV5H	A	1,364,620	2188	81	229
		(Op: CX3CY)			
CX7ACH	28	708,890	2024	28	105
CX2SA	14	224,548	588	36	110
CX8CP	7	80,746	458	27	67
*CX9AU	A	1,436,838	1586	102	236
*CX4SS	"	176	8	8	8
*CX1AA	21	259,280	888	28	84
		(Op: CX8AT)			
VENEZUELA					
4M5E	A	1,241,935	1365	90	233
		(Op: YV5NW)			
YW3B	*	441,255	638	67	200
		(Op: YV3BK)			
YV4AZF	14	88,773	393	24	62
YV1DIG	1.8	9,603	133	9	24
*YV7QP	A	195,804	454	58	131
*YV5JBI	"	128,925	222	59	166
*4M5I	28	136,595	599	23	62
		(Op: YV5ENI)			
*YV4FZM	"	135,000	569	26	74
*YV1CR	3.7	5,061	145	9	12
QRP					
P40W	A	5,097,780	3599	127	381
		(Op: W2GD)			
KP4KE	"	2,027,706	2871	90	241
KR2D	"	1,507,506	1181	104	358
FSBEG	"	1,138,936	1253	103	369
N6MU	"	1,020,936	898	118	294
LY1DT	"	963,356	1286	100	357
ON4NKE	"	756,958	1015	93	328
LY2FE	"	668,338	1077	80	294
JR4DAH	"	621,160	815	98	195
N0HJZ	"	537,716	582	96	262
WK2G	"	488,592	648	83	241
SM3C	"	483,144	872	67	261
		(Op: SM5CT)			
YU1KN	"	460,368	848	75	278
YU4JO	"	459,869	965	91	235
YU1LM	"	458,126	991	65	249
S59D	"	386,568	719	85	278
Y08WW	"	331,004	605	94	239
LU1VK	"	327,096	501	81	183
W0MHHK2	"	307,639	484	66	192
N1TM	"	286,512	422	70	212
WA3NK0/4	"	278,864	431	59	173
KQ0Q	"	241,744	447	73	159
ON7CC	"	143,451	465	49	182
VE4C0Z	"	136,882	324	56	122
CT1DYV	"	119,800	305	53	134
RA9XX	"	107,400	391	33	117
I3MDU	"	96,425	348	43	131
RZ3QY	"	76,916	349	33	132
G3FNM	"	74,734	351	33	125
NM1K	"	72,380	168	45	109
GW0VSW	"	53,949	254	33	114
N2WG	"	53,515	161	42	97
EC4ABH	"	52,403	286	36	103
N9C1Q	"	35,682	126	41	73
NQ7Q	"	32,752	128	30	58
NQ7X	"	30,397	146	45	68
N8XA	"	18,224	142	45	91
GM4ELV	"	15,732	253	32	106
DL5IAM	"	14,787	158	24	69
W4DEC	"	13,182	76	29	49
SP6SOX	"	12,382	137	15	74
UR5YDX	"	11,410	119	18	52
DL6MHP	"	11,152	80	26	56
IK0MPI	"	9,213	102	23	60
DH2UL	"	8,520	69	23	47
WZ2T	"	8,192	56	22	42
RA4UAT	"	7,808	54	24	40
YC0LOW	"	7,504	49	27	44
UR5YEZ	"	6,042	86	13	44
UA9AKO	"	5,940	39	19	35
K9FHQ	"	4,251	109	17	22
W3TT	"	3,528	34	20	29
		(Op: N9GG)			
W2JEK </					

DJ1YH	1,265,628	1270	112	420
DH0DX	880,740	2125	40	149
DL0DX	801,975	1006	101	324
DN1TUX	789,939	1203	99	360
DL0ML	649,638	936	81	293
DF0CG	618,995	769	100	345
DL0PAF	497,250	802	94	281
DN1MA	59,926	206	48	118
GIBRALTAR				
ZB2X	11,199,232	7595	150	554
HUNGARY				
HG1R	1,253,690	2441	104	339
ICELAND				
TF3IRA	1,718,476	2967	84	265
IRELAND				
EI9E	2,502,797	2667	107	410
ISLE OF MAN				
GD6IA	5,336,425	4721	123	442
ITALY				
IQ4A	13,581,494	6290	177	709
IR3Z	4,573,884	3526	157	557
IQ2X	3,965,148	2969	151	531
I4GAS	1,849,232	1979	103	315
I14M	1,547,120	1787	98	368
IR3P	1,197,960	1379	119	417
I3EJ	1,171,800	1634	89	289
I13A	980,055	1168	105	330
I4MFA	668,276	962	91	315
I26CST	551,208	830	89	268
IO2L	515,673	823	79	190
I20BEE	312,042	573	90	303
JERSEY				
GJ1Y	2,252,384	2606	103	369
LATVIA				
YL7C	2,433,675	2756	120	435
LITHUANIA				
LY40ZZ	5,175,885	3799	163	578
LY2IN	1,336,959	1655	110	397
LUXEMBOURG				
LX9SW	5,801,889	4086	151	588
NETHERLANDS				
PA7MM	7,492,721	4664	152	587
PI4CC	4,539,727	3471	146	563
PI4ZWN	267,900	622	67	215
NORTHERN IRELAND				
GN0XYZ	260,768	779	49	183
NORWAY				
LA7G	2,643,354	2681	131	436
LA2Z	1,794,486	2163	102	380
LA3T	10,125	110	29	52
POLAND				
SN8V	3,887,115	3538	136	457
SP5ZCC	1,626,984	1742	110	421
SP9KDA	661,362	1103	93	324
SP9KRT	394,745	733	85	273
SP9KDU	248,810	572	62	216
SP3PFR	213,528	576	70	217
SP9KJT	188,496	639	55	183
SP9KJU	106,128	281	62	136
SP3KPN	46,464	209	42	109
ROMANIA				
YP3A	3,555,134	4065	127	456
SICILY				
IT9ECQ	2,017,554	2508	101	361
IQ9K	1,650,916	2569	89	300
SLOVAK REPUBLIC				
OM7M	8,280,915	4865	173	658
OM3A	7,332,251	4497	165	646
OM5M	6,763,278	4431	152	627
SLOVENIA				
S50Q	8,129,825	4494	160	639
S53S	2,627,898	2556	116	430
S51SL	2,190,300	2485	133	455
S510	875,673	1212	98	349
SPAIN				
EA1EEY	5,202,680	3868	129	466
ED3TR	3,520,598	3420	127	451
EA1COZ	2,409,771	2382	109	398
ED1BD	1,657,344	2152	99	317
EA4ST	1,637,835	2268	101	310
EA3RKG	1,492,480	1956	97	327
ED4TE	1,297,056	1610	88	266
ED2WWV	1,247,418	1781	80	253
ED1DIT	739,840	1198	71	249
EA1URO	484,194	882	69	234
EA1AXH	371,408	800	74	260
EA7UR	366,024	836	70	232
EA1FCR	284,328	698	59	205
EA5ANQ	115,444	372	69	197
ED4TD	83,072	337	43	133

SWEDEN				
8S2F	2,848,176	3134	127	386
SWITZERLAND				
HB2H	3,930,948	3469	139	545
HB2OK	872,034	1727	70	233
UKRAINE				
UU7J	6,383,328	5226	172	612
UT7L	3,323,250	2968	140	493
UT0AZA	1,601,225	2333	98	377
US8U	1,328,121	1794	110	409
UX8IXX	979,284	2216	99	375
UR4MWU	176,970	524	53	189
WALES				
GW0S	255,300	581	56	166
YUGOSLAVIA				
YU1INO	114,444	372	56	148
YU7AJM	72,240	307	36	132
OCEANIA				
AUSTRALIA				
VK4WIL	2,278,500	2985	93	201
EAST MALAYSIA				
9M6AAC	3,900,060	3165	141	320
FED. STATES OF MICRONESIA				
V6T1	1,547,361	2389	97	148
GUAM				
AH2R	10,260,544	5998	154	465
HAWAII				
KH7V	1,177,344	1999	80	139
MARSHALL ISL.				
V73AX	6,081,370	4939	144	301
NEW ZEALAND				
ZL3DXC	2,484,937	2778	100	229
PHILIPPINES				
DX1S	2,578,344	2323	132	292
SOUTH AMERICA				
ARGENTINA				
LT1F	7,880,564	5991	132	391
LS7N	6,518,148	4593	135	411
LT5H	1,340,757	1755	92	227
LU4DRC	426,400	972	66	139
BRAZIL				
ZW5B	17,014,752	8070	176	662
PY2GEC	920,112	1592	67	165
PY2BMM	619,136	1181	60	164
PY2LDS	28,880	131	38	57
PY5CAM	4,653	84	21	26
PY3PXV	2,145	34	14	19
CHILE				
CE4TA	3,293,370	3407	111	276
CE3AA	2,988,836	3152	97	252
CE6TC	1,088,272	1559	96	176
FRENCH GUIANA				
FY5KE	10,091,010	6615	132	423
PERU				
OA40	3,080,625	3057	104	271
MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA				
UNITED STATES				
KC1XX	20,691,530	8575	196	769
K3LR	20,008,190	8260	192	778
W3LPL	18,194,336	7652	198	760
K9NS	14,482,776	6318	194	730
N3RS	11,891,996	5379	180	679
W4MYA	11,041,326	5329	179	655
N4TO	10,853,379	5150	179	658
N2RM	10,781,519	4956	178	655
K1KI	10,505,176	5008	177	647
K1TTT	10,275,200	5276	176	669
NQ4I	10,225,320	5114	177	663
W1FJ	10,174,725	4738	174	651
W6KK	9,598,531	5049	177	674
KR1G	9,509,661	4616	171	642
W3PP	9,030,528	4548	173	631
W2AX	7,829,717	3989	168	605
K81H	7,345,450	3858	162	613
K3NM	6,576,442	3609	155	572
K2RD	6,272,504	3282	158	549
K3IH	5,691,574	2929	154	567
KV1W	5,191,256	2774	156	541
K3ANS	4,816,941	2582	170	583
W8ZA	3,780,231	2119	157	524
W2CG	3,539,393	1965	151	538
WW4M	3,326,751	2015	139	474
W6YX	2,995,776	1985	143	433
N1MD	2,840,508	1938	133	461

W0AIH/9	2,749,752	1785	146	487
K11R	2,485,300	1577	129	451
K6IDX	1,094,625	804	132	393
K3DI	1,070,650	876	112	363
K4WPM	571,835	824	104	303
AA2D	160,300	284	67	162
KM5TY	84,846	245	48	110
W8YY	23,058	119	43	83
N4CU	9,271	67	30	43
ALASKA				
KL7Y	15,244,460	9580	161	504
KL7RA	11,673,360	8015	152	468
ANGUILLA				
VP2EK	6,149,508	7219	103	328
ANTIGUA				
V26B	33,938,394	16448	183	704
CANADA				
VE3EJ	26,396,325	12069	189	738
V82R	7,969,104	6764	134	438
VE5RI	5,198,177	5112	124	343
VE6FI	3,491,992	3307	135	373
VE3SY	2,977,896	2795	124	384
VE7SCC	643,841	1152	97	216
VE2CQ	33,221	233	49	90
GRENADA				
J3A	24,983,360	13548	168	640
ST. PIERRE & MIQUELON				
FP/N8KR	5,536,539	5072	105	372
ST. VINCENT				
J80WW	11,484,655	8139	139	448
TURKS & CAICOS ISL.				
VP5T	13,399,161	9782	137	452
AFRICA				
AFRICAN ITALY				
IG9A	50,742,692	17852	205	807
IH9P	41,762,574	16286	178	740
ERITREA				
E30TA	13,021,632	8072	134	430
MOROCCO				
CN8WW	78,170,508	25711	199	854
ASIA				
ASIATIC RUSSIA				
RK0AXX	12,288,176	7916	176	588
CHINA				
BY1DX	1,926,415	2316	117	278
JAPAN				
JA3YBK	14,267,988	7273	170	559
JA5BJC	11,163,356	5925	174	550
JA7YRR	6,459,478	4727	151	435
JA1YPA	6,196,279	3997	164	465
JA1ZLO	1,772,292	1691	131	321
JA2YKA	334,332	632	72	150
TAJIKISTAN				
EY2A	7,138,208	4959	142	474
THAILAND				
HS0AC	4,046,120	4210	136	366
EUROPE				
BELARUS				
EU5F	6,441,544	6199	148	558
BELGIUM				
OT0A	19,281,152	11906	180	722
CZECH REPUBLIC				
OL5T	1,540,413	2114	104	395
DENMARK				
OZ5W	6,655,488	5167	148	524
OZ5WQ	2,863,931	3015	132	491
ENGLAND				
M6T	23,968,284	13638	185	763
ESTONIA				
ES9C	13,092,595	9183	179	660
EUROPEAN RUSSIA				
RZ3AZO	3,225,516	3505	136	466
RK4LWA	39,872	367	43	135
FINLAND				
OH2U	20,655,910	11098	191	755
GERMANY				
DF0HQ	18,548,716	11244	178	736
DL2DBH	2,703,036	2544	121	467
DL3EBB	2,426,760	2664	112	428



Ati, HA8LIF, #3 Low Power, All Band Hungary.

HUNGARY				
HG6N	17,819,120	11417	175	705
HG0HQ	11,111,484	8847	162	600
ITALY				
IU2D	15,762,660	9972	171	699
KALININGRAD				
RW2F	21,395,826	12565	187	731
LIECHTENSTEIN				
H00				
/HB9AON	8,381,190	7342	134	540
HB0/DK7ZL	3,515,603	3949	130	507
LITHUANIA				
LY7A	11,067,186	8342	168	638
NETHERLANDS				
PI4COM	4,753,524	3430	144	572
NORWAY				
LA1K	965,679	1859	90	339
POLAND				
3Z1KG	57,782	234	42	125
SARDINIA				
IS0A	662,354	1245	85	306
SCOTLAND				
GM0B	3,791,871	4566	124	455
GM2T	1,400,091	2158	87	312
SHETLAND ISL				
GZ7V	10,538,220	7762	160	610
SPAIN				
EA4URE	9,453,932	7373	151	592
ED7VG	2,654,652	3199	96	366
EA9ESJ	1,611,968	1695	120	446
ED1SML	596,755	1177	77	278
ED2URV				