

Results of the 1996 CQ World-Wide DX SSB Contest

BY BOB COX*, K3EST

It was the sunspot minimum. Ignoring this fact, tens of thousands of like-minded contesters from all over the world flipped on their rigs and prepared for 48 hours of adventure. Using the CQ WW database, our estimate is that 31,000 amateurs from over 230 countries took part in the 1996 CQ WW DX SSB Contest.

It was terrific to see the 80 or so DXpeditions that were on during the contest. There sure were some rare stations that got into a lot of logs: XZ1N, XY1U, ZS8IR, D25L, TL8MS, J28JY, TR8IG, 9G1BJ, 7P8/OE2VEL, C91CO, 5X4F, 9X4WW, S79MAD, 9L1MA, 3V8BB, S01M, 5X4F, A71CW, AP2NK, T77WI, 9M8R, A35SQ, 9K2RA, C31LD, ZB2BU, T88T, FK5DX, CY0XX, XX9X, HS1AZ, TK1A, and HB0/HB9AON, to name just a few. I'm sure that I speak for all participants in saying "thanks" to all the DXpeditions and rare stations that made an effort to make the 1996 CQWW the second largest radio DX contest in the known history of the world (1990 was 234 more logs!).

Single Operator High Power

Of the top ten finishers, all but two were DXpeditions. Quite a lot of frequent-flier miles were racked up! The winner of this coveted category was Jim, N6TJ, operating at ZD8Z. Jim took full advantage of his rare country and zone. Believe it or not, Jim won for the world with ZD8Z in 1968 and is only the second contestee to win in four decades! The first was KH6IJ. Jim seems to be getting better with time. The battle for second place was very close. Josc, CT1BOH, carried P40E over John, W2GD (P40W), in the last hours of the contest.

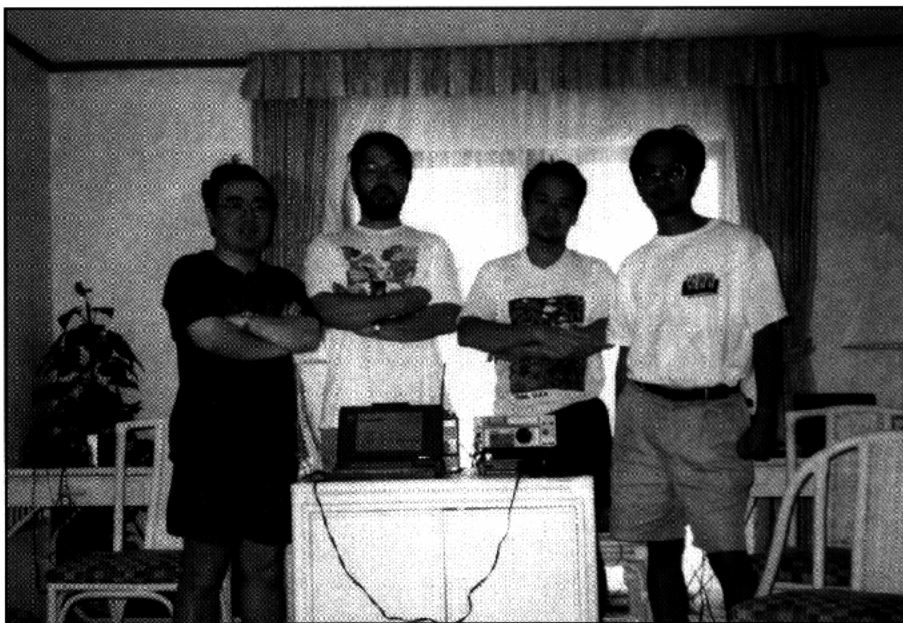
In the USA Randy, K5ZD/1, took the top slot. Randy's unique rate set an example for all other all band operators. Second place USA went to Bill, KM9P/4.

The battle in Europe reversed itself from last year. This time GI0KOW came out ahead of Tine, S50A. The conditions to the states were a big advantage to GI0KOW.

Single Operator Low Power

The low power category continues to attract the most participation. This category allows for everyone to get on and have a good time. The world all band winner was Heinz, DK5WL, operating TA4ZM. Heinz took a plane trip to near-by Asiatic Turkey and carried away the top low power trophy. Down Argentina way, LP7N piloted by LU2NI finished second. DK5WL worked lots of Europeans and LP7N worked lots of USA. The top USA score came from WA4ZXA.

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NH2C operated by (left to right) Seo, JG3RVO; Kazu, JG3RPL; Aki, JI3ERV; and Toshi, JR7OMD.

Jimmy sure caught the right wave to make it into the world top ten. Joining him in the top ten was AC1O/4, who took the silver. In Europe Steve, G4KIV, pushed the gas pedal to the floor to edge out IR4R operated by IK4ALM.

JA0QNJ took top honors in the far east. The low power category sure filled a need in Japan, where interference can be a nightmare.

QRP

As the sunspots bottom out, the QRPers really take a beating, as was reflected in their lower overall scores. First-place QRP in the world went to F5BEG with 525k. Gendron, while making most of his contacts on 20 (302/18/67) meters, actually worked the most multipliers on 15 meters (259/27/75). And how would you North Americans like to work 169 QSOs on 75 (as Gendron did) yet only be rewarded with 207 QSO points for that effort? Coming in second in the world (and second in Europe) was YU1EA with about 350k.

The real upset, though, was in the QRP battle for the USA. N1AFC, after many years of "also ran," finally put it all together and dethroned AA2U with a score of 328k versus 307k! Once again it was a battle of QSOs versus multipliers, and once again QSOs won out.

A big congratulations to Peter, who hung in there year after year to finally take the prize. Finally, it is very interesting to note that UA9ACJ (who was eighth in the world QRP) made zero QSOs with North, Central, and South America, and the Pacific. He made only two QSOs in Africa. It's hard to imagine a box score entrant who didn't even work one QSO in Zone 5, 8, or 9. Let's hope the SFI is better the next time around.

Assisted

The Single-Operator Assisted category has definitely gone worldwide now, with two of the top three scores from Africa! DL4NAC operated the station of CT3FN to world high, followed by top European LY5A (Opr. LY2BTA) and 7P8/OE2VEL. The top U.S. station was AA1K, narrowly edging out runner-up KE3Q, with KS1L coming in third.

Following LY5A in Europe were IR2W (Opr. IK2PZC) and DL0WW. JH7PKU led all Asian entrants.

Multi-Single

Competition in this highly prized category was rugged. It was the battle of the guys on the

TROPHY WINNERS AND DONORS

SINGLE OPERATOR

World All Band
ZD8Z (Opr. Jim Neiger, N6TJ)
 Donor: Dave Rosen, K2GM
 WA2RAU Memorial

World Low Power
TA4ZM (Opr. Heinz Josef Pick, DK5WL)
 Donor: Slovenian Contest Club

World QRP
Gerard Gendron, F5BEG
 Donor: Doc Sayre, N7AVK

World Assisted
CT3FN (Opr. Martin Riederer, DL4NAC)
 Donor: Snake River Contest Club

USA
Randall Thompson, K5ZD
 Donor: Potomac Valley Radio Club
 KC8C Memorial

USA Low Power
Jimmy Floyd, WA4ZXA
 Donor: North Coast Contesters

U.S.A. Zone 3
Lewis Sayre, N7AVK
 Donor: Bill Fisher, W4AN

U.S.A. Zone 4
Mike Wetzel, W9RE
 Donor: Dennis O'Connor, K8DO

Canada
CI3EJ (Opr. Gary Caldwell, VE7NTT)
 Donor: Niagara Frontier Int'l DX Assn.
 VE3WT Memorial

Caribbean/C.A.
4V2A (Opr. Ivo Pezer, 9A3A)
 Donor: Alex M. Kasevich, VP2MM

Europe
R.W.C. Cummings, G1ØKOW
 Donor: Potomac Valley Radio Club
 W4BVV Memorial

Europe Low Power
Steve Bowden, G4KIV
 Donor: N3RA & K3LR

Africa
3V8BB (Opr. Hrane Milosevic, YT1AD)
 Donor: Gordon Marshall, W6RR

Asia
Krzysztof Darbrowski, A71CW
 Donor: 2 AM Dayton Pizza Gang

Japan
Kazuhiko Endou, JAØQNJ
 Donor: Japan Crazy Contesters Club

Oceania
V85HG (Opr. Hajime Kato, JO1RUR)
 Donor: Northern California DX Club

South America
P4ØE
 (Opr. Jose Carlos Cardoso Nunes, CT1BOH)
 Donor: Yankee Clipper Contest Club

SINGLE OPERATOR, SINGLE BAND
World—28 MHz
PQ5W
 (Opr. Walter Vicente Gomesfilho, PP5WG)
 Donor: Joel Chalmers, KG6DX

World—21 MHz
ZX5J
 (Opr. Sergio Lima de Almeida, PP5JR)
 Donor: CQ Magazine

World—14 MHz
D25L (Opr. Alex C.J. van Eijk, PA3DZN)
 Donor: North Jersey DX Assn.
 K2HLB Memorial

World—7 MHz
IG9/IT9GSF (Opr. Fabio Grisafi, IT9GSF)
 Donor: Fred Laun, K3ZO
 K7ZZ Memorial

World—3.7 MHz
IG9/I4UFH
 (Opr. Fabio Ern Schettino, I4UFH)
 Donor: Fred Capossela, K6SSS

World—1.8 MHz
IG9/IV3TAN (Opr. Alberto Annesi, IV3TAN)
 Donor: Robert Wruble, W7GG

USA—28 MHz
Sydney Leach, K5XI
 Donor: Donald Thomas, N6DT

USA—21 MHz
Stephan Sacco, Jr., KC2X
 Donor: David Hueben, KBØISS

USA—14 MHz
David Donnelly, K2SS
 Donor: Southern California DX Club

USA—7 MHz
Larry Pace, N7DD
 Donor: Stanley Cohen, WD8QDQ

USA—3.8 MHz
Jeffrey Briggs, K1ZM
 Donor: Arnold Tamchin, W2HCW

USA—1.8 MHz
Peter Hutter, WW2Y
 Donor: CQ Magazine

Carib./C.A. (14 MHz)
VP2E (Opr. Robert Wood, W5AJ)
 Donor: Snake River Contest Club

Europe—28 MHz
9HØA (Opr. G. Morris, 9H1EL)
 Donor: Chod Harris, VP2ML

Europe—21 MHz
Joao Rafael Faustino Almeida, CT1BOP
 Donor: Tine Brajnik, S5ØA

Europe—14 MHz
Jiri Sanda, OK1RI
 Donor: A.G. Anderson, GM3BCL

Europe—7 MHz
IR4T (Opr. Maurizio Panicara, I4JMY)
 Donor: Roger Burt, N4ZC

Europe—3.7 MHz
N.S. Shirko, UA2FJ
 Donor: Marconi Contest Club
 I3MAU Memorial

Europe—1.8 MHz
Josef Burian, OK1AY
 Donor: Robert Kasca, 9A3A

Japan—21 MHz
Ooshika Tarou, JI2UNR
 Donor: DX Family Foundation

Japan—14 MHz
Tadeo Katsuta, JH7DNO
 Donor: Take Yokoyama, JL1BLW

**MULTI-OPERATOR
 SINGLE TRANSMITTER**
World
ZXØF (Oprs: PY5EG, PY5CC, N5FA, PYØFF)
 Donor: So. Calif. DX Club
 W6AM Memorial

U.S.A.
KF2ET (Oprs: KF2ET, AA2DU, KE2NL,
 WR2I, K2UU, WB2DVK)
 Donor: Carolina DX Association

Carib./C.A.
8P9Z (Oprs: K4FJ, K3KG, K16IM, WA9L, W2NA)
 Donor: Eric Scace, K3NA

Asia
RWØA (Oprs: RVØAR, RUØAB, RVØAU,
 RAØAM, UAØAGI, UAØANW)
 Donor: Edward L. Campbell, AH2BE

Europe
IQ4A (Oprs: I4VEQ, I4IND, I4LCK, I4TJE, I4IKW,
 I4EAT, I4AVG, I4PVP, I4YRW, I4EWW, I4DCT,
 I4QJH, I4CZF, I4XQH, I4MGP, I4KNCJ,
 IW4ANU)
 Donor: Bob Cox, K3EST

Oceania
NH2C (Oprs: JG3RPL, JR3RVO, JI3ERV,
 JR7OMD)
 Donor: Junichi Tanaka, JH4RHF

South America
HC8N (Oprs: WN4KKK, WX3N, AG9A, VE3EJ)
 Donor: Jerry Boyd, K6BZ

**MULTI-OPERATOR
 MULTI-TRANSMITTER**
World
PJ9E (Oprs: WA3LRO, N3ED, K3EST, KB2XZ,
 N4RV, N7ZZ, K2SB, NL7GP, W3UM)
 Donor: W6QHS and KK6QM

U.S.A.
KC1XX (Oprs: KM3T, KC1F, AD1C, WZ1R,
 K1DG, KB1AWE, K1EA, AA1ND, PU1JTE)
 Donor: Paul Hellenberg, KS9K

Europe
TK1A (Oprs: DL4MCF, DL1MAJ, DF9LJ, DK6WL,
 DL4MEH, TK5NN, TK5EP, DF9RX, TK5MH,
 TK1BI, DK4VW, DL6RAI)
 Donor: Finnish Amateur Radio League

Japan
JH5ZJS (Oprs: JA5BJC, JA5FDJ, JA5JCC,
 JA5THU, JH5XS, JR5JAQ, JR5VHU)
 Donor: Ryoza Goto, JH3JYS

CONTEST EXPEDITIONS
World Single Operator
7P8/OE2VEL (Opr. Wolfgang Klier, OE2VEL)
 Donor: National Capitol DX Association
 W2GHK Memorial

WORLD MULTI-OPERATOR
XX9X (Oprs: OH1KAG, OH2BH, OH2BVF,
 OH2PM, OH6DO, XX9AL, XX9KC, XX9MD)
 Donor: The German CDXG & SDXG
 DJ3NG & DJ4EI Memorial

SPECIAL SINGLE OPERATOR AWARDS
World—All Band Under 21 Years Old
C4ØM (Opr. Stavros Tsiakkouris, 5B4AFM)
 Donor: Gene Zimmerman, W3ZZ

World—All Band High YL
Mieko Inoue, JAØQWO
 Donor: Yutaka Tanaka, JH3DPB

equator—ZXØF at 3 degrees south in the Atlantic versus HC8N at 0 degrees in the Pacific. Wow, what a struggle! When all was finished, ZXØF took top honors. Their openings on 10 meters made the difference.

In Europe, perennial powerhouse IQ4A put their hilltop cave to great use and took the very competitive European trophy. Second place went to the TM2Y crew, who operated at F6BEE's QTH.

In the USA, KF2ET of the Frankford Radio Club beat out another FRCer, N3RS. The friendly rivalry with the FRC is one of the secrets to their great club score success.

Multi-Multi

Just before the contest began the crew of PJ1B (now PJ9E) received word that their mentor and founder, PJ9EE, had passed away. In an effort to honor his memory, they secured the callsign PJ9E. Once again this well-oiled crew won for the world. Second place went to V26B. The story of their adventure can be found in the September issue of *CQ Contest* magazine.

The Bavarian Contest Club traveled down to TK and with a lot of hard work and fine operators took first place in Europe over the tough competition from 9A1A. Both crews spent many months thinking about their efforts.

Here in the US, Matt's crew at KC1XX put their QTH in NE USA to work. From the top of their stacked beams tower you can see EI on a good day. Hi. They did not run away from it and had to overcome a tenacious effort from the New Jerseyites at N2RM.

Team Contesting

Team Contesting this year was the largest ever! Eighteen sent in their teams, representing every continent. Placing four of their five team members in the all band world top five, Neiger's Tigers racked up a staggering 42M points! All the team members are to be congratulated.

The real battle was for second place between Team Nippon and Yugoslavian Team #1. Team Nippon took the silver position. All teams are to be congratulated. Why don't you try team contesting? The five members can be from anywhere on Earth, and your personal score can *still* be added to your local radio club aggregate.

New Records, Special Mention

The following stations set new world or continental all-time records:

World 1.8 IG9/IV3TAN; L3.7 9A4RU; L1.8 S54E; Q14 RW9AB; Q3.7 YU1YV; A14 IR8A (I8QLS); A1.8 EA3ALD; USA 3.7 K1ZM/2; A1.8 W4DR.

North America 1.8 CG1ZZ (VE3BMV); L14 XO7A (VE7SV); L3.7 VP2E/WB5CRG; L1.8 CO3JA; Q7 W9KEA; A1.8 W4DR.

Africa 1.8 IG9/IV3TAN; AA CT3FN (DL4NAC).

Asia L21 4Z4T (4Z4UT); Q14 RW9AB; A14 JE2HCJ.

Europe L14 IY4M (I4ABF); L7 S54ZZ; L3.7 9A4RU; L1.8 S54E; Q14 YU1NR; Q3.7 YU1YV; AA LY5A (LY2BTA); A14 IR8A (I8QLS).

Oceania L14 DU1COO; L7 KH6/K6GSS; L3.7 KH8AL; L1.8 KH8AL; Q21 VK3NDS.

South America 21 ZX5J (PP5JR); L3.7 YV4AZF; L1.8 HK6ISX.

There were many outstanding efforts this



The Royal Omani Radio Amateur Society, where A45ZN was located.

year. Here are a few. Alberto, IV3TAN, traveled down to IG9 to set a new world record on 160 meters. He worked 102 countries and did not lose a single one when his log was checked. His QTH was on a point high over the water, an ideal location for 160. He was just one of seven different IG9 stations put on the air by the Marconi Contest Club. The battle on 40 meters out in USA zero-land between WØUN and KVØQ was fantastic. The final difference was less than one QSO! The MM of XX9X prompted three other XX9's to submit logs. An all-time high for that country. Steve, N2IC/Ø, was the highest score in the USA east of Indiana. What a terrific job this WRTCer did.

Comments

A. Rule modifications: Please take the time to read the rules which appear in this issue of *CQ*. There have been a few modifications since last year. Look for the bold lettering in Rules III, XI.5, and XII for these changes.

B. Questions: If you have a question about anything concerning the CQ WW, send a letter to <questions@cqww.com>. Most contesters assume that their contesting software does it all for the them, but it may not. Here are some of the most common violations of the rules. Please help us and try to avoid the following:

1. No dupe sheet (Rule XI.9).
2. A disk is sent without a paper summary (Rule XI.5).
3. Failure to divide mults into countries and zones (Rule XI.7).
4. Failure to indicate QSO totals on summary sheet (Rule XI.7).
5. Failure of Low Power and QRP stations to indicate POWER used on their summary sheets (most only give rig type) (Rule XI.11).

C. Electronic Submission: This year we received 1224 electronic submissions—disks or e-mails. We really appreciate your efforts to make your contest the best. Even with that many submissions there were 1296 computer logs with *no* disk or e-mail log! If you use a computer to generate your log, *please* take the time

to send a disk plus a paper summary sheet or e-mail your log. It is cheaper for you to mail a disk than it is to mail your whole log. E-mailing your log is cheaper of all! Thanks for all your help. Refer to Rule XI.5 for directions on how to submit a disk.

D. CQ WW SSB Contest e-mail submissions <ssb@cqww.com>: You can submit your log via internet. E-mail is easier for you and us. For e-mail we require *two files* to be included in your message:

1. A SUMMARY sheet in plain-text ASCII.
2. Your LOG, which should be sent in one of two ways—as a plain-text ASCII file (for the most popular programs submit your CT: yourcall.ALL file, TR: yourcall.DAT; other fixed-column ASCII formats are acceptable) *or* as a binary file (acceptable examples for submission of files for the most popular contest programs—acceptable binary formats are NA: yourcall.QDF; OH2BQS). If you send a binary file, it will have to be encoded for transmission via e-mail. All popular encoding schemes are acceptable, including UUencode, Base64, and BinHex. Your software may automatically encode your log as an attachment.

If you must send the files in separate messages, be sure to put the MODE and the station CALLSIGN in the Subject: line of each message. When you send your log, it should automatically be acknowledged by the server. If we eventually have trouble with reading your file, we may ask you to send a disk. Submit your 1997 CQ WW SSB log to <ssb@cqww.com>.

E. SWL: For SWLs reading these results please contact Bob Treacher, BRS32525, at the address in *CQ Contest* magazine or on e-mail at <101526.1041@compuserve.com>. He runs the SWL part of the CQ WW, called the October Challenge.

Thanks

Thanks to the CQ WW log checkers who validated the winners. The 1996 hard-working crew included K1DG, K3UA, K3ZO, K6NA, KR2Q, N2AA, N2NC, N3ED, N3RA, N5NJ,

TOP SCORES

WORLD

SINGLE OPERATOR HIGH POWER

Table listing top scores for Single Operator High Power in the World, including categories like All Band, 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 11,253,304 to 5,699,938.

Table listing top scores for Single Operator High Power in the World, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 631,116 to 229,932.

Table listing top scores for Single Operator High Power in the World, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 2,976,190 to 704,082.

Table listing top scores for Single Operator High Power in the World, including categories like 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 2,212,080 to 704,082.

Table listing top scores for Single Operator High Power in the World, including categories like 7 MHz and 3.7 MHz. Scores range from 1,103,021 to 568,400.

Table listing top scores for Single Operator High Power in the World, including categories like 3.7 MHz, 1.8 MHz, and 7 MHz. Scores range from 787,710 to 205,110.

Table listing top scores for Single Operator High Power in the World, including categories like 1.8 MHz, 7 MHz, and 3.7 MHz. Scores range from 441,252 to 49,506.

LOW POWER All Band

Table listing top scores for Low Power in the World, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 3,238,785 to 1,070,307.

Table listing top scores for Low Power in the World, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 289,599 to 176,900.

21 MHz

Table listing top scores for 21 MHz in the World, including categories like 21 MHz and 14 MHz. Scores range from 865,094 to 315,185.

14 MHz

Table listing top scores for 14 MHz in the World, including categories like 14 MHz and 7 MHz. Scores range from 807,764 to 464,352.

7 MHz

Table listing top scores for 7 MHz in the World, including categories like 7 MHz and 3.7 MHz. Scores range from 213,194 to 87,780.

3.7 MHz

Table listing top scores for 3.7 MHz in the World, including categories like 3.7 MHz and 1.8 MHz. Scores range from 102,885 to 43,416.

1.8 MHz

Table listing top scores for 1.8 MHz in the World, including categories like 1.8 MHz and 7 MHz. Scores range from 38,871 to 17,629.

QRP All Band

Table listing top scores for QRP in the World, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 425,784 to 148,824.

ASSISTED All Band

Table listing top scores for Assisted in the World, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 7,795,760 to 2,387,730.

MULTI-OPERATOR SINGLE TRANSMITTER

Table listing top scores for Multi-Operator Single Transmitter in the World, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 20,167,146 to 10,593,882.

MULTI-OPERATOR MULTI-TRANSMITTER

Table listing top scores for Multi-Operator Multi-Transmitter in the World, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 32,588,850 to 12,604,410.

EUROPE

SINGLE OPERATOR HIGH POWER

Table listing top scores for Single Operator High Power in Europe, including categories like All Band, 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 5,787,333 to 79,076.

20 MHz

Table listing top scores for 20 MHz in Europe, including categories like 20 MHz and 14 MHz. Scores range from 223,010 to 79,076.

14 MHz

Table listing top scores for 14 MHz in Europe, including categories like 14 MHz and 7 MHz. Scores range from 1,078,608 to 479,210.

7 MHz

Table listing top scores for 7 MHz in Europe, including categories like 7 MHz and 3.7 MHz. Scores range from 745,820 to 735,048.

3.7 MHz

Table listing top scores for 3.7 MHz in Europe, including categories like 3.7 MHz and 1.8 MHz. Scores range from 588,350 to 443,856.

1.8 MHz

Table listing top scores for 1.8 MHz in Europe, including categories like 1.8 MHz and 7 MHz. Scores range from 64,154 to 165,024.

LOW POWER All Band

Table listing top scores for Low Power in Europe, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 1,244,524 to 799,268.

MULTI-OPERATOR SINGLE TRANSMITTER

Table listing top scores for Multi-Operator Single Transmitter in Europe, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 10,703,504 to 799,268.

MULTI-OPERATOR MULTI-TRANSMITTER

Table listing top scores for Multi-Operator Multi-Transmitter in Europe, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 84,095 to 33,573.

21 MHz

Table listing top scores for 21 MHz in Europe, including categories like 21 MHz and 14 MHz. Scores range from 637,014 to 226,366.

14 MHz

Table listing top scores for 14 MHz in Europe, including categories like 14 MHz and 7 MHz. Scores range from 807,764 to 299,550.

7 MHz

Table listing top scores for 7 MHz in Europe, including categories like 7 MHz and 3.7 MHz. Scores range from 213,194 to 81,125.

3.7 MHz

Table listing top scores for 3.7 MHz in Europe, including categories like 3.7 MHz and 1.8 MHz. Scores range from 102,885 to 40,158.

1.8 MHz

Table listing top scores for 1.8 MHz in Europe, including categories like 1.8 MHz and 7 MHz. Scores range from 38,871 to 17,629.

QRP All Band

Table listing top scores for QRP in Europe, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 425,784 to 148,824.

ASSISTED All Band

Table listing top scores for Assisted in Europe, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 5,879,094 to 1,260,672.

MULTI-OPERATOR SINGLE TRANSMITTER

Table listing top scores for Multi-Operator Single Transmitter in Europe, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 10,703,504 to 6,281,604.

MULTI-OPERATOR MULTI-TRANSMITTER

Table listing top scores for Multi-Operator Multi-Transmitter in Europe, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 17,035,667 to 8,521,296.

USA

SINGLE OPERATOR HIGH POWER

Table listing top scores for Single Operator High Power in the USA, including categories like All Band, 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 3,878,064 to 5,697.

20 MHz

Table listing top scores for 20 MHz in the USA, including categories like 20 MHz and 14 MHz. Scores range from 62,320 to 7,781.

14 MHz

Table listing top scores for 14 MHz in the USA, including categories like 14 MHz and 7 MHz. Scores range from 638,528 to 202,293.

7 MHz

Table listing top scores for 7 MHz in the USA, including categories like 7 MHz and 3.7 MHz. Scores range from 288,904 to 61,204.

3.7 MHz

Table listing top scores for 3.7 MHz in the USA, including categories like 3.7 MHz and 1.8 MHz. Scores range from 955,260 to 20,276.

1.8 MHz

Table listing top scores for 1.8 MHz in the USA, including categories like 1.8 MHz and 7 MHz. Scores range from 739,713 to 14,809.

ASSISTED All Band

Table listing top scores for Assisted in the USA, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 119,691 to 4,715.

LOW POWER All Band

Table listing top scores for Low Power in the USA, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 1,227,042 to 451,560.

20 MHz

Table listing top scores for Low Power in the USA, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 20,350 to 6,937,164.

Table listing top scores for Single Operator High Power in the USA, including categories like All Band, 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 18,630 to 4,455.

21 MHz

Table listing top scores for 21 MHz in the USA, including categories like 21 MHz and 14 MHz. Scores range from 96,728 to 55,170.

14 MHz

Table listing top scores for 14 MHz in the USA, including categories like 14 MHz and 7 MHz. Scores range from 188,727 to 108,720.

7 MHz

Table listing top scores for 7 MHz in the USA, including categories like 7 MHz and 3.7 MHz. Scores range from 22,659 to 440.

3.7 MHz

Table listing top scores for 3.7 MHz in the USA, including categories like 3.7 MHz and 1.8 MHz. Scores range from 2,016 to 252.

QRP All Band

Table listing top scores for QRP in the USA, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 328,068 to 5,700.

ASSISTED All Band

Table listing top scores for Assisted in the USA, including categories like All Band, 7 MHz, 3.7 MHz, and 1.8 MHz. Scores range from 2,882,554 to 1,656,480.

MULTI-OPERATOR SINGLE TRANSMITTER

Table listing top scores for Multi-Operator Single Transmitter in the USA, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 5,281,560 to 2,748,825.

MULTI-OPERATOR MULTI-TRANSMITTER

Table listing top scores for Multi-Operator Multi-Transmitter in the USA, including categories like 20 MHz, 14 MHz, 7 MHz, and 3.7 MHz. Scores range from 10,773,260 to 6,937,164.

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
ZD8Z	19/11/16	180/22/51	609/25/74	1148/35/138	2295/31/138	1294/27/124
P40E	169/9/25	436/18/57	1003/23/87	1378/31/117	2380/28/110	729/23/57
P40W	127/10/29	465/19/77	857/23/81	1378/25/93	2270/26/102	970/22/57
9Y4H	283/10/29	533/21/73	838/24/82	1213/25/76	2298/31/124	683/21/56
3V8BB	289/10/56	575/20/80	716/26/90	1192/34/121	1080/34/122	346/21/73
8R1K	96/8/18	328/16/66	765/23/84	1351/31/95	1740/27/97	346/16/38
4V2A	4/3/4	341/14/54	1078/23/84	1926/33/120	2174/25/103	255/16/31
V85HG	5/5/5	45/15/24	633/26/55	1088/31/76	1928/32/89	818/23/56
G10KOW	233/8/50	319/29/113	593/23/90	2077/33/122	1856/33/124	89/10/362
FG56G	78/6/20	429/13/60	979/19/66	1335/26/100	1310/20/80	571/17/53

USA TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
K5ZD/1	41/11/28	236/16/74	304/27/86	966/34/125	724/27/110	70/9/26
KM9P/4	44/12/29	176/23/71	155/25/73	952/35/135	551/29/116	143/14/33
N6BV/1	26/8/23	158/17/56	140/23/69	898/32/122	815/24/116	71/11/20
K3ZO	30/9/23	203/21/63	281/28/83	974/36/123	454/25/100	50/8/18
K1IU	24/5/15	137/17/58	284/24/81	722/29/104	862/24/95	70/10/24
W3BGN	45/11/28	172/19/64	134/25/68	684/33/107	607/24/98	75/11/27
W9RE	45/10/27	115/21/60	172/26/76	605/34/125	578/27/114	95/11/35
K1RU	25/4/13	110/14/56	168/24/71	681/34/107	740/23/105	66/10/23
N2IC/0	34/12/21	135/22/47	302/29/74	1019/35/120	182/25/82	22/7/13
KE9A/4	30/9/20	96/15/55	127/24/69	749/32/112	518/26/102	58/9/21

WORLD MULTI-OPERATOR SINGLE TRANSMITTER

ZX0F	25/9/27	250/26/86	1736/32/119	1541/38/159	3546/36/156	1022/30/131
HC8N	264/12/28	489/24/84	1474/30/108	2213/34/142	3111/34/142	737/23/71
EA8ZS	36/6/32	4590/22/87	1192/31/115	1431/35/132	2104/33/141	204/23/98
CT3BX	59/7/42	541/17/73	505/25/90	1291/34/136	2486/34/136	573/19/96
IQ4A	91/12/69	319/29/113	1019/34/139	1871/39/156	1455/33/124	89/10/362
8F9Z	249/10/31	401/19/82	1418/28/111	1614/32/137	1930/31/120	798/23/78

USA MULTI-OPERATOR SINGLE TRANSMITTER

KF2ET	29/10/29	247/21/83	333/30/98	1208/36/142	826/27/138	87/16/50
N3RS	39/12/35	287/26/87	199/29/87	836/37/155	847/27/142	65/18/53
KING	40/13/35	176/24/81	359/26/94	764/36/141	751/28/135	97/17/44
K4ISV	30/11/26	158/26/73	207/3/95	1230/31/168	538/30/139	57/15/43
WA2VUY	29/7/21	126/22/73	193/27/82	720/35/120	182/25/82	68/15/44
K8LX	24/9/21	74/18/48	159/29/82	854/36/146	570/25/112	33/7/26

WORLD MULTI-OPERATOR MULTI-TRANSMITTER

PJ9E	723/16/58	1590/26/105	2178/31/118	4165/38/169	3453/32/151	1437/24/93
V26B	637/15/56	1306/21/80	2414/28/114	3989/36/162	3595/32/154	1360/23/97
TK1A	969/12/71	1968/24/113	2717/33/132	3411/39/166	1771/38/165	114/23/97
9A1A	849/17/83	1468/35/127	1979/37/132	2434/39/162	1890/38/169	422/25/95
M6T	955/9/67	1722/27/108	1811/31/131	2622/40/174	1622/35/172	316/22/80
OT6A	907/10/63	1534/23/100	2019/34/129	2480/40/144	1129/35/142	387/21/78

USA MULTI-OPERATOR MULTI-TRANSMITTER

KC1XX	207/13/41	761/24/102	672/32/113	1784/38/165	1570/28/154	305/16/46
N2RM	202/14/48	649/27/106	651/33/110	1536/38/167	1561/28/150	266/20/59
K3LR	156/13/40	835/26/95	698/34/119	2042/39/179	1069/29/145	215/15/44
W3LPL	290/16/50	535/26/99	668/30/107	1922/39/171	1035/28/143	316/20/65
W2PV	109/12/39	422/23/83	438/31/103	1875/38/158	1162/26/146	223/16/46
K1KI	105/13/42	465/23/88	472/31/105	1194/39/156	1135/28/141	207/18/48

N5TJ, N6ZZ, N8BJQ, N9RV, W2RQ, W3ZZ, W7EJ, and W9RE. Our DX advisors were very helpful in offering advice, providing information, and sorting out potential problems; they were CT1BOH, DL6RAI, EA3DU, G3SXW, I2UIY, JE1CKA, OH2KI, OH2MM, OK2FD, ON6TT, PY5EG, S50A, SM3SGP, UA9BA, and VE3EJ.

A special thanks to Dick, N6AA, who again spent countless hours to make the CQ WW database the best in contesting. The CQ WW uses the software developed by N6TR to create the database. John, K2MM, set up and managed the <CQWW.com> internet site and Larry, N6TW, was valuable in retrieving data from e-mail submissions. And thanks to John, K1AR, for his advice and hard work to make the CQ WW so successful.

Congratulations to all the winners. Try to get a fellow contesteer on for a local, friendly competition, and join us this year for the 50th running of the CQ WW.

73 and CU in '97, Bob, K3EST

DX QRM

Congratulations! This was my first contest in radio amateur bands and it's amazing! I really enjoyed it PU2NVC. Always a great opportunity to work new band points. Fifteen meters was great to the US and Asia. . . . LX1NO. 5 Ops = 76 Years! . . . 9A1CFZ. This is our first DXCC contest. We have met many rare stations, so we feel very excited! . . . BY4BZB. Was expecting more contacts on 3.7 and 7 MHz but conditions did not help. . . . AP2NK. Propagation seems to be getting better as 133 countries were worked. Fifteen meters was really open as over 1000 QSOs were made, but toooo much QRM on 40 meters. . . . SV1DKR. VE1ZZ QTH can hear!

Too bad propagation was terrible. Nice to be back to CQ WW after 10 year QRT. . . . VE3BMV (at CG1ZZ). No propagation to Asia. Heard W7's working Asia. Europe Sunday morning only. Fifty years of

contests here, 83 years young. . . . VE4RP. First contest from my new "contest QTH" in a mountain 1200m high, excellent place. See you next year. . . . ZX5J (Opr. PP5JR). It has been such a pleasure to participate in such a nice contest! . . . RZ6HX. Winter came too soon. Only antennas 80 meter quad and 160 meter vert. . . . VY1JA. Incredible conditions on 160. I worked 102 countries but 101 reply to my CQ! KL7, XM9, HS1, V85, ZL . . . each QSO was an intense emotion for me. Thanks to CQ WW contest. . . . IG9/IV3TAN.

All operators of our MS licensed since 1996. . . . IZ1AOE. Very nice contest but very hard to work with

40W. . . . UA1ZKZ. I chose 7 MHz because I was very busy during day time. Running barefoot among the European QRM, I was almost unreadable. It was fun. . . . 9K2/YO9HP. It was very nice to meet so many friends in Lampedusa this year. Tks to Antonello, IT9EQO, for the spare diodes I needed after my amp broke on Friday afternoon. . . . IG9/IT9GSF. A real rest on character, poor bands, but great team spirit. Better antennas on the low bands next year! . . . ZM2K. We did enjoy the contest from the beginning, but during the contest the boom of the 20 meter beam broke so we lost a lot of time to take it down. . . . PI4CC.



The WD6DJY contest gang standing on their snow-covered mountaintop.

TEAM CONTESTING

1. **Neiger's Tigers: 42,137,267.** By 9Y4H (Opr. K6NA), EA8AH (Opr. OH1RY), P40W (Opr. W2GD), P40E (Opr. CT1BOH), ZD8Z (Opr. N6TJ).
2. **Team Nippon: 19,645,052.** By JH7PKU, FG5BG (Opr. JF2DQJ), V85HG (Opr. JO1RUR), 6Y5XX (Opr. JE3MAS), 3DA0NX (Opr. JM1CAX).
3. **Yugoslavian Contest Team #1: 18,714,797.** By YU7AV, YU7BW, YU7CB, YT1AD, 3V8BB (Opr. YT1AD).
4. **Team Handkey: 14,955,781.** By K5ZD, K1IU, KM9P, W9RE, N2IC.
5. **Contest Club Finland: 14,799,408.** By 8R1K (Opr. OH0XX), CT3/OH6LI, OH0MM (Opr. OH2MM), OH1EH, OI6YF.
6. **Team Bravo: 7,525,868.** By YB9BV (Opr. AA7VB), N6BV, IT9BLB, AI7B, KB1GW.
7. **Team Slovenia: 6,152,488.** By S50A, S51FA, S59L.
8. **Team Commonwealth: 4,070,445.** By GW4BLE, GW0GEI, 8P6CV, VP2E (Opr. WB5CRG), G3WGN.
9. **Minolta-Ukraine: 3,934,620.** By UT4UZ, UX1UA, UX4UA, UX4UM.
10. **Over the Hill Gang: 2,394,850.** By W9KDX, K9BG, K9RN, AA9LX, N9ITX/7.
11. **Honk If You Love Contesting: 1,530,430.** By WA4ZXA, AA1EY.
12. **French CQ Gang: 1,418,268.** By TM6Z (Opr. F6JSZ), F5NBX, F5BSB, F6EEM, F5SJP.
13. **Yugoslavian 14 MHz Contest Team: 1,368,696.** By YT1BB, YU7BJ, YU1NR.
14. **Team Tennessee: 1,263,312.** By K0EJ, W4OGG, WA6KUI, KC4URW.
15. **Yugoslavian QRP Contest Team: 642,788.** By YU1LM, YZ1AA, YU1EA, YU1KN, YT0X.
16. **Hanging Judge Contest Team: 589,370.** By AB5SE, KG5NE, AC5BR.
17. **Yugoslavian Low Band Contest Team: 330,834.** By YU1ZZ, YZ1AU, YT0T (Opr. 4N1DXX), 4N1A (Opr. YU1UA).
18. **Number Thirteen: 88,400.** By EA1FAK, EA1FBO, EA1KK, EA1OT, EA1MK.

Japanese 75 meter phone band (3791-3805) is very crowded and many QRM. So please transmit outside of JA phone band and QSX JA frequency. On the other hand, 3747-3754, the additional new JA phone band, is not so crowded; please QSX this frequency. . . . JE1SPY. First contact on 28 MHz with North America this season. . . . JE7DOT. One-hundred watts maximum allowed for the YY category, novice. . . . YY4GLE. Unfortunately, due to terrible propagation and because we had just 100W we could not do as many QSOs as we would have liked. . . . 8Q7BT.

Heard many DX stations on 80 and 160 but 100W is tough on the low bands. . . . LP7N (Opr. LU2NI). No PC, no BBS, etc., only hands and ears. . . . SP5BB. A serious entry this time more than doubled last year's score. Conditions weren't wonderful, but added two new all-time new ones and heard but didn't work four more. . . . G3WGN. Best contest of my life. The new tower and monobanders worked like a dream. All the hard work to put them up paid off. . . . WA4ZXA. I am a student and have been a ham for two years. For someone getting to the hobby, now is a great time because there is only one way to go and that is up! . . . VE2SKA. This is my 25th CQ WW DX Contest entry and my 1865 contest log entry overall. . . .

YU7SF. We were located on the 6th floor, about 12 square meters, only one transceiver. . . . BY5WS.

My antenna is surrounded by buildings in Tokyo. But this time, because the propagation was extremely good, it was possible to contact a lot of stations. . . . JE1BDC. Fun, fun, fun! Despite no power for solid 6 hours. . . . DU9RG. My goal is to find new ones and to give a new multiplier to many guys! . . . Z32KV. My amp is not enough for surfing in the QRM. I lost my voice at 17 hrs. Hi. Nice competition in spite of the damage. . . . F2NH. I couldn't break the 3500 QSO barrier due to lack of JA's and two day electrical storm. Thanks to LU8DPM for lending me his fine station. . . . AY7D (Opr. LU7DW).

Many thanks for this high activity contest. I caught more than 1200 QSO and worked some new countries. . . . RU6BV. Conditions were good to Africa, the Far East, and South America, but could not hear any North America during the contest. . . . 4X1VF. I still need something better for 80 and 160. The M60 call helped but not as much as I as expected. . . . M6O (Opr. G4OJH). I had to fight to break into the incestuous triangle: USA-EU-CAR-JA to get QSOs. On many occasions, I could not break through! . . . VK8AV. Just starting the contest, one tube of the amp

goes QRT! But all is not negative, 500W instead of 1000 makes much more quiet TV, radio, telephone, and XYL! . . . EA3ALV.

I found 10 meters open all day here and on the second day even into the night! . . . EA6ZY. My first contest ever. I have been a ham for 6 years. I did not know they were so much fun. . . . VE9BL. It was unbelievable to work XX9X, VS6WO, and YB9BV on 10 meters. The "best of the best" happened on 15 meters. I still do not know how I broke the NH2C huge pileup running only 100W and 3-el Yagi. Incredible! It was sure one of the best DX's since I became a ham! I can't wait for next year. . . . CT1EAT. I really enjoyed this year's contest. At times the QRM was high, but overall I loved every minute of the contest. . . . ZS6H.

Thanks to LA7SL for QTH and hospitality. . . . LA9VDA. To just be present and distributing points is a pleasure, too! . . . DL8WCM. During the contest we made 404 QSOs, but unfortunately we lost 293 QSOs because of computer failure. The rest we send as a check log. . . . 4N7Z. Very enjoyed wrking ED9EA and OD5NJ on 1.8. This a new one! But no copy NA. Sri QRM. . . . UT1ZZ. My time limited this year, but definitely one of the most enjoyable CQ WW's yet! . . . VK2ARJ (ex-VK1RJ, P29RJ, VK9RY). Tried 40 meters for first time. Ground-mounted trapped vertical does not make the big signal. I'll be back next year with a better antenna. . . . VE3ZD.

We had a great time! Conditions on 15 better than 20 meters. The 2-el 4-10 meter quad was finished just days before the contest. . . . VK6LW. Operated in the same area as 4F5CM. We both were single band entries. Tried to get locals interested in a club entry but no go. . . . 4F5MW (Opr. WD5AAH). I am a contest man. My second hobby is collecting pins/badges on amateur radio. . . . UR8V (Opr. UX2VZ). I had a lot of fun as usual. I think I'm addicted to this crazy sport! 73's to all my friends. . . . VK5GN. Never worked so many new countries on 10 meters in a weekend before, let alone at the bottom of the sunspot cycle with low power and just a vertical. . . . ZDBEZ.

Amazing how many stations called me by name. So I have lots of friends or N6TR is really popular in Russia! . . . OH1NOA. I could spend the whole time with the contest because I went dancing! My age is 76 and this was my 410th contest. . . . VK2APK. Many thanks to LW8DXJ for your station. Without his help I cannot make this contest. . . . LW2DBM. Operated from the world's largest geothermal plant at Ormoc, Philippines. . . . 4F5CM (Opr. KK5CM). Low power on 80 meters means you cannot CQ! But even with my inverted-L, I managed to work about 60 countries. . . . SV1DET. Conditions raised again for the contest. Even 10 meters was well open to Far East. . . . OH6YF.

I could only work one African station, but it was great for my small antenna. WW contest is always exciting! . . . JL7PVR/1. Condx from northern Europe



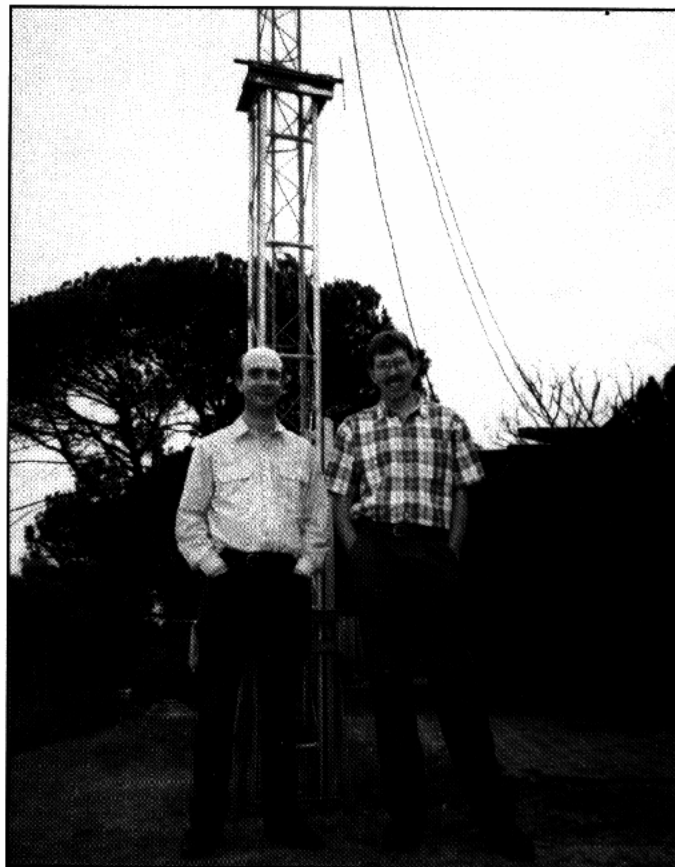
Team NK7U put Oregon in everyone's log.

ZONE LEADERS SINGLE OPERATOR

Zone	Call	Score	Zone	Call	Score
1	NL7DU	124,016	21	A71CW	3,081,843
2	VE2TVU	404,982	22	VU2PAI	1,041,074
3	N7AVK	1,766,721	23	JT7AA	83,349
4	KI3EJ	5,117,408	24	VR2RX	204,294
5	C5ZD/1	3,378,064	25	JA0QNJ	2,411,442
6	4A1FEC	723,040	26	No Entry	
7	V31MX	179,760	27	DU9RG	3,726,692
8	4V2A	6,857,970	28	V85HG	5,811,663
9	P40E	10,479,765	29	VK8AV	195,447
10	OA4EI	994,432	30	VK3TZ	439,825
11	ZX5J	2,976,190	31	AH7G	4,977,736
12	CE3F	1,091,249	32	AH8A	907,326
13	LT0A	2,719,360	33	3V8BB	8,529,972
14	GI0KOW	5,787,333	34	No Entry	
15	S50A	4,206,860	35	5N0MVE	5,458,896
16	UT7EZ	4,141,984	36	ZD8Z	11,253,304
17	UN5F	589,842	37	5X4F	676,436
18	RZ9UA	637,760	38	7P8/OE2VEL	4,935,550
19	RA0FA	126,430	39	FR5DX	4,843,744
20	TA4ZM	3,238,785	40	TF7/W4WET	55,200

TOP SCORES IN VERY ACTIVE ZONES

Zone 3		Zone 14	
N7AVK	1,766,721	GI0KOW	5,787,333
K6GX	1,027,650	DJ4PT	3,183,040
VA7A	933,660	GW4BLE	2,839,187
W7RM	701,590	EA3FQV	1,957,940
WK6V	685,926	DL8PC	1,911,420
*WA7BNM/6	663,300	DJ6QT	1,642,683
*KC6ETY	427,682	DL2DXX	1,547,686
K6HNZ	399,008	F6HLC	1,467,729
W7OM	397,365	M6X	1,329,310
K7LUH	360,960	EA3GHQ	1,316,616
Zone 4		Zone 15	
CI3EJ	5,117,408	S50A	4,206,860
W9RE	2,553,226	YT1AD	3,630,844
N2IC/0	2,292,796	IO4LEC	3,333,804
WZ4F	1,933,920	YU7AV	3,151,470
W5WMU	1,441,350	IO6F	2,810,119
KB8TI	1,259,440	YU7BW	2,749,918
K5NA	1,151,183	OH0MM	2,250,675
*VE3KZ	1,053,290	OH1EH	1,921,328
CI3XN	1,033,051	IT9STG	1,724,556
N5DX	990,192	S59ZA	1,610,240
Zone 5		Zone 25	
K5ZD/1	3,878,064	JA0QNJ	2,411,442
VP9ID	3,479,509	JA8RWU	1,924,296
KM9P/4	3,438,505	JH7DNO	1,126,762
N6BV/1	3,113,496	JH5FXP	854,501
K3ZO	3,021,699	*JE0UXR	714,696
VO1MP	2,836,984	J12UNR	547,630
K1IU	2,793,190	*JE3HDD	486,408
W3BGN	2,491,055	JF3CCN	456,240
K1RU	2,480,016	JF1OPL	439,971
KE9A/4	2,220,596	*JA6WFM	413,098



The Eastern Hills Contest Group (left to right): VK6VZ and VK6LW.

very poor, particularly for NA. Great contest as always. . . . *ES7RE*. Won't you be surprised to hear that we had no single breakdown this year? When you have to stop 3x3 hours that you realize that you are not a young boy any more. But age is wisdom they say! . . . *5N36T*. We felt that with our 100W we were QRP given the signals around on the bands. . . . *ZB2BU*.

Vy nice openings to JA both Sat and Sun mornings. Not good opening stateside. Even KC1XX and others were quite weak here. Quite difficult to work zone 4 from here. . . . *O11AF* (Opr. *OH1MDR*). Still same excitement since my first CQ WW 27 years ago! Tnx. . . . *TA2DS*. Lost my voice totally for two days due to heavy cold. Now considering buying a DVP. . . . *DK1FW*. Some hours before the contest the electrical company damaged a high-voltage transformer. Fortunately, they had a spare part so we lost only 15 minutes of contest time. Thanks to all who made this event possible. . . . *CT3BX*. Propagation was very good, but I still have problems from a high-voltage tower near my contest station. I must use other antennas for receiving. This the second WW with my call sign and I'm very happy to make more than 15 new countries for me! . . . *YZ7ED*.

Had to work on Saturday morning and had 7 hours of mains shortage. Not really good for a contest. . . . *J28JY*. The long path to Zone 8 area was open around 12z on 15 meters. Please check JA by turning antenna to the south. . . . *JL1MUT*. I really enjoyed the LU pileup on Sunday on 10 meters. Nice to have life coming back to 10. . . . *Z500* (Opr. *K3UOC*). First time to try a SSB contest running only 100 watts. A great challenge but tremendous fun! Maybe next I'll try QRP. . . . *E16FR*. CQ WW is the best contest in the world. . . . *PU7TDD*. I had a tube failure two hours before the end of the contest, but I was having so much fun that I didn't care! . . . *PY1CAS*.

When I could not copy USA with the beam at 320 any more, there were the ZS and LU stations. I could work Europe only after their sunset. . . . *VP2VF*. I never called CQ. Only answered the calling station. I like to be in a contest this way. . . . *F6GKQ*. I got my ticket

late Nov. 95. My first CQ WW. It's been one of the high-lights of my one year ham career. . . . *ON4CAS*. Rig "died" after only three QSOs! Screaming stopped after noticing the "timer button" had been accidentally depressed! . . . *G4KIV*. The PB0 calls have their license for the entire HF bands since 4 Oct. 96. There are only 300 calls at most. For me it was quite an experience to do an HF contest. Really enjoyed it. . . . *PB0ANR*.

Station was aboard the Alaska State ferry M/V Malaspina which was moored at Ketchikan, Alaska in shipyard status. . . . *KL7IWC*. I had only limited time for the contest this year, but still had great time. Very good propagation on 15 meters and on low bands. Hope to be more active in CW part (from 9A1A). . . . *9A2EU*. Murphy attacked me very early in the contest and left me with no DVK, the computer failed on several occasions, the antennas performed poorly, while the direction indicator of the rotator was not working. But this is what contesting is all about anyway! . . . *C40M* (Opr. *5B4AFM*).

Thanks to the 5th Signals Company of the Portuguese Army in Luanda to make participation in this contest so much fun by letting me use their 10-element log periodic array. Signals from Africa CAN be loud! . . . *D25L* (Opr. *PA3DZN*). To stay competitive, and like almost ALL other participants, I had to work stations, which were listening below 7.040 MHz (including some very well known contesters, even members of the CQ WW DX Contest Committee!) If you like to disqualify me for this, please feel free to do so, as you will have to do then with almost all other participants! Something need to be done about this in next year's contest, otherwise the fun will be again much more less. Single ops can anyway just S&P due to extremely high participation of too many M/M and M/S super power stations, which occupy all available bandwidth. . . . *DF2RG*. The "tailend" of Hurricane Lily passed the south coast of EI, with gusts of 100 mph+ which wrecked our 15 meter beam and also damaged the 20 meter beam. There is now a job list as long as your arm to be completed in time for the CW leg. . . . *E17M*.

The "queen of the bands" gave me again the fun I

hoped! Same QSO and Zone, and some Countries more than the 1995's edition, having same rig and fun. Hoping in a rising solar activity: see you in next pileup! . . . *IT9BLB*. Top band has changed dramatically during last 10 years I have been missing from the band. European QRM is now as strong as Russians QRM I have experienced in the past above 1840 kHz. Due to the relative weakness of the DX signals on 160 meters it is a great challenge now for one to be able to pick up the DXes, if he is not having beverages and top hill countryside location. Had to QRT for 7 hours because of terrible flu. Still great fun. Congrats to the OLD MAN JIM (N6TJ) for a great win. . . . *P40E* (Opr. *CT1BOH*).

The call sign was changed from PJ9B to PJ9E to honor PJ9EE who went silent key two days before the contest. Chet was instrumental in building the contest station on Bonaire. Over the years he helped many contesters set record-breaking scores through his engineering skill, gracious hosting, and lifelong love of our hobby. . . . *PJ9E* (ex-*PJ9B*, *PJ1B*). Strange—the entire contest passed without one single hardware failure. Let's hope things stay that way for the CW test in November. Well, we could use a bit better propagation, of course—hi. . . . *SL3ZV*.

Used the first major worldwide contest from this location mostly for monitoring of conditions and openings. Interesting findings (e.g., 10 meter openings into Caribbean at local midnight). Nearly lost the voice totally after two thirds of the contest (never SSB without CQ machine again). Despite the good condx on 15 and 10 the 20 meter band was nearly dead the first day. Next goal: Good antennas for 400, 160. . . . *YB1AQ5*.

USA QRM

I moved back to New Hampshire from Kansas. This contest allowed me to learn the ways of propagation from NH. I also learned the weakness and strengths of my station. Lots of fun. . . . *WQ1H*. Loved it! Worked J3A on five bands. Enjoyed Europe and Africa on 40. . . . *KD4CDB*. Thanks to VE/Canada for making this

score possible. . . . *K1ZM*. Great contest! Nice to have 15 meters back, but did miss the polar path to Asia. . . . *A12C/4*. Thanks to N5NMX for the use of his station. . . . *KB5ZF0*. WD6DJY operated from Frazier Mt, California at 8800 asl. Our last contact was with VK4UA on 15 meters: "VK4UA qsl 5930 you are 5903 . . . It's snowing up here! (Maria, KC6ABM). . . I don't believe you (VK4UA)!! We'll send you a QSL card that proves it! . . . *WD6DJY*.

Thanks to K0KE for using his station. How many others endured the brain damage to do 40 meter QRP? . . . *W0KEA*. First contest in over ten years. My, how the country prefixes have changed. . . . *K6SE*. The 15 meter beam I wrote up for CQ worked great! Thrill working FK5DX and VR6MW with it. . . . *NZ5A*. I had a good time working the 32 countries which I was able to hear on 28 MHz. At least I beat last year's score. . . . *KC3PZ*. This is my second CQ WW SSB. With 50 watts and 2-el X-beam fixed-pointed east in a town house attic, or a metal chimney liner loaded as a vertical, SSB DX takes more patience than CW. Exciting to catch CY0 on SSB. . . . *N3UMA*.

QRP, a local S-9 noise level, and the worst propagation of cycle 22 made for a memorable weekend! . . . *W8QZA/6*. KF4LBD got a chance to see what contesting is all about. Think we can expect him to upgrade soon and get into these frays. . . . *K4UK*. IR4T telling me that I had the strongest signal he'd ever heard from California on 40 meters. . . . *K6GX*. Glad I didn't quit on Saturday because of poor conditions. This was my first CQ WW SSB, but not my last. Hope to make a million next year. . . . *NR0X*. I believe this to be my first ever entry into the CQ WW and my first somewhat serious contest participation in years. I learned a lot and hope to be back again next year. . . . *K1TW*. Finally working 9Y4H through the pileup for a new one. . . . *WA2OCG*.

What an excuse to get the non-ham OM to do the laundry. It was fun. . . . *AA9TB (YL)*. We got our G5RV up to 25 feet this year instead of last year's 15 feet. So the good lord willing and the creek don't rise, we

will see ya'll next year at the Lo End of the MS scores. . . . *W4TMN*. This was my first contest ever entered. I declare that I had immense amount of fun and excitement even though 10 meters was open only for a few hours during the contest. I'm hooked and will return! . . . *N3WUE*. Thanks to LU's for mullets and points especially on 10 meters! . . . *W0MHK/1*.

Working DU9RG after chasing for years with a vertical. . . . *N4TJ*. Worked 12 new countries to bring my total up to 89 for this year. I can't imagine how easy it will be to work them when the sunspots cooperate. . . . *KF9YR*. Finding 10 meters open and working VR6! . . . *W7HUY*. At age 80 it was difficult working with low power on a ground-mounted vertical antenna. . . . *W2FGY*. We all had a great time breaking in all the new antennas here. Never did get any decent runs going no matter how much we called. Can't wait till the cycle comes up again. . . . *N2GQS*. My thanks to all the DX community when they give a clear frequency when the DX station comes back to a pip-squeak station like mine. . . . *WJ2R*.

Thanks to everyone for being in such a great contest. I lost 2 hours Saturday morning due to rain static but made up for it Sunday. Fifty percent of my contacts were with Europe. . . . *K4JYO*. I miss those things called sunspots. Twenty meters barely open past sunset. . . . *KC6X*. Used beam and antenna that used to belong to the Hammarlund Co. for DXpeditions. . . . *WD4CNZ*. I had a blast! My first contest as a Tech plus. I sure was glad 10 meters was open. . . . *WB9WFR*. Wow! I had fun again but can't believe I forgot to log a W on 4 out of 5 bands! . . . *K1DWQ*.

I made a decision not to operate "full time. I think I made a mistake. Fifteen meters was like the "old days"—wide open. . . . *KJ0B*. My first CQ WW. I worked 11 new countries and enjoyed the challenge. . . . *KQ6ES*. I am 15 years old; this was my first CQ WW. You have a great contest going. I am already planning for next year. . . . *AA8UP*. Eighty meters not as good here as last year but still solid for QRP work. . . . *WA2ASQ*. Great turnout but many could not copy

many peanut whistle. CQ WW is still the best of the tests. Continue the good work. Next year back to 15p—Hooray! . . . *N4MO*.

Thirty-six days without a sunspot reminds me just how far away the other side of the world is! . . . *KF0IA*. As usual this is *The Contest*. Had fun even though 10 was gone, gone, gone! . . . *K7ABV*. Despite marginal conditions, I was able to beat last year's score, add four new countries on 160, and have a great time. . . . *W5CWQ*. This test is fun! Wish I had more time, but taking care of grandchildren makes for no time for contesting, but was fun. . . . *NW8F*. Tower collapsed two weeks before test forcing single band 89. Was great to get some sleep for a change. Where were the Africans? . . . *N6AR/4*. Getting into eastern Europe with 5 watts SSB was great. QRM on 20 was very bad. . . . *N4EUK*.

First time on west coast, first time on 40 meters. Different! . . . *W6UDX*. My first contest. Learned how it works. Really enjoyed it. Will be back for more. . . . *KB2WZY*. My first contest in 20 years and had a great time. Goal was to work 100 countries and I just made it. . . . *WD0E*. Conditions at the start of the contest got me excited about getting my new beam on line to improve the operation over the dipoles. So I spent Saturday, in the rain, getting the antenna up. On Sunday I hit a nice opening to LU on 10 meters with the beam. That was the farthest I have ever talked on 10 meters in my brief ham career. . . . *KE4OAR*. Great contest. My first CQ WW. KC5WEG is a 17 year old who made his first HF contact just minutes before the test. . . . *AC5CT*.

How did you get 20 open almost all day, and 15 and 10 for a good part of the day? Glad I became active for this. . . . *W1EWN*. JA runs were disappointing. Too many DX stations not willing to listen up due to QRM in US portion of the band. Heard 15 countries that never seemed to listen up! MUF too low for the NW this year! . . . *A17B*. I was surprised to work much of anything with this antenna. I think it is more of a tribute to the other ops. Best moment was hav-

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V56W0 & 9V1YC: VR2NR, VR2GO. **VY2CR:** VY2SA, VY2GJ, VY2R0B, VY2GWM, VY2RB. **W1BK & W1NR:** K1TXH. **W1FY:** W1EQW, N1L00, N1JFO, K1KTK, WN1A, KE1BG, N1BFG, N1XYC, AA1Z, N1SMS, N1XAN, N1MCG, WA1R, KA1HIA, N1FXC, N1DGT, N1ECI. **W4ATC:** KS4XG, N3QYE4, K4L4D. **W4NC:** N4VHK, WB4KQ, N0KTY, K4D4RG, KE4TES, KE4JCY, K4TKV. **W4PRO & K4MR:** WD0CNO. **W4TMN & K4MU:** KA4VGF, KE4GWW, W3WFF. **W5HTK:** N5HEL, KA0RNY, KM5DH, KA7GLA, N2MNC, KC5TEZ. **W5KFT & K5TSQ:** N5KA, K5TR. **W6EEN & K6XC:** K17WX, W60RD. **W9JZ:** K9IMM, WB9NOV, KE9ET, KF9AF, N9CIN, N9CCK, K9KVA, N99V, AA9OC. **WABPUJ & KC0ZC:** WB00. **WA2SYN & WM2V:** KS2G, N2LSK, KA2GWM, WA2NYY. **WA2VUY & N02R:** WD0DJY: AE0P, AB6FG, AC6RF, AC6TQ, K6BF, KC6ABM, KC6MQL, KC6YJ, KD6VYY, KM6AX, KO6DM, KO6GX, N6JFC, N6VBW, N6YSU, WA6LUS, WJ1P, AB6FH, AB6RD, KC6AAO, KC6ACI, KC6BCV, KC6BURG, KK9QY, KN6GB, N6YTB, N6YTA.

WX1M & WS1Y: WX0B/5 & W5GN, WA5YOM. **WX6M & WB6YRN:** N6UUG. **XE2DV & K7LXC:** WA2TMP, KN6DW, KE6VWV. **XR8S:** X08ABF, CE8SFG, CE8DGO. **XY1U:** JA8RUZ, JA8CDG, JP1TRJ. **YL1ZF:** Uziacs, Legzdins. **Y09KPD:** Y09IF, Y09BGV. **YU1L:** Club. **Z37FCA:** Club. **ZB2BU:** ZB2CF, ZB2BI, ZB2IF. **ZP0R:** ZP5XF, ZP5VAY, ZP5AZL, ZP5CGL, ZP5XHM, ZP5WBM, JA7AYC, ZP6VT. **ZS5NK:** Daniel, Gary, Edwin. **ZW0B:** PS6ET, PS6PY, PS6DX, PS6GW, PS6NF. **ZX6F:** PY5EG, PY5CC, N5FA, PY0FF. **Z52E:** PY2EK, PY26W, PY2RO.

Station Operators Multi-Op Multi-Transmitter

9A1A: WA4IMC, 9A5W, 9A9A, 9A2DQ, 9A3NR, 9A40M, S51D, 9A3SC, 9A2R, 9A3ZA. **9A800OS:** 9A1AA, 9A2DG, 9A2DI, 9A20M, 9A2CY, 9A2VR, 9A2IN, 9A2TR, 9A4LA, 9A3CB, 9A20U, 9A2NY, 9A5I, 9A2LX, 9A3IQ. **AA1AS & KY1H:** K1MBO, WA1ZAM, NT2X, AA2MF, AB2AS, WJ1R, AA6MC, WM1K, AB2AP, WT2Q. **CQ1A:** CT1ASU, CT1ERY, CT1EXC, CT1FBQ, CT1GFJ, CT1GFK. **CY8XX:** WA4DAN, AA4NC, K2B2EX, V73C, AH9B. **DF0DX:** DK3DM, DF8AE, DK4OT, DL1YDI, DJ1QQ, DK50N, DL1YAW, DF8XC, DL8EY, DL6OK, DL3YEL, DJ2QV, DB5QU, DG4YDR, DL9YC. **DF30G & DL1DCA:** DL5DLX. **DK5EZ & DK4TP:** DK8EY, DL4EBA, DL6EAD. **E33FP:** EA3AA, EA3AIR, EA3AJM, EA3CCN, EA3CKX, EA3EJL, EA3ESJ, EA3EZO, EA3KU, EA3UJ. **ED7VB:** EA7BJV, EA7ESH, EC7ADD, EC7AHN. **EM2I:** UT2IA, UT2ID, UT2IG, UT2II, UT2IJ, UT2IM, UT2IO, UT2IS, UT2IV, UT2IW, UT2IZ, UX2IX, US2IR, US2IZ, US-1-00Z, US-1-700.

GM6V: GM3W0J, GM4YX, GM4AFF, GM0NAL, GM4TXX, GM4BAP, GM4CXM, GM4IGS. **HB0/HB9A0N:** DF1JC, DL8DAW, DL8EAQ, DJ2YE, HB9CRV. **HC0E:** HC1HC, HC1PF, HC1JQ, HC1HN, HC1GZ, HC1BI, HC1DAZ, HC1WW, HC1CN, HC1NS, HC1NG, HC1JSH, HC1JEV, HC1H, HC6XF, HC4MZ, HC2DZ, CO6CD, CM2SD. **HS1AZ:** AB6BH, K17Y, N6AA, N6ZZ, OH2KI, W6MKB, W6XD. **IK3SSJ & IK3STG:** IK3NLK, IK2IDR. **IR30:** IK30RD, IK30II. **J3A:** W8KKF, W8BGCX, WA8LOW, W9IXX, N9NS, IV3NVH, WZ8D, WA8NJR, IV3TMV. **JA1YDU:** JH0NZN, JF7TFK, JP1CWJ, JG3AXP, JQ2NJ, JE0BK, 7-1ETP, 7K2BLP, JA9DA, JK3GAD, N3NQL, JP10GL, JH0LEF, JK2XXK, JI2UYK, JK1JHU, JQ1BRW, JL7MYL, Mizuno. **JA3YK:** JP2BZE, JH3RHQ, JL3HEY, JO3PPD, JO3UGI, JP3PZD, JP3SMB, JS3QGO, JG4LSR, JL4CWB, JL6BMJ, JP6RBN, JO6CUT. **JA7YRR:** JA7FDY, JA7JUD, JA7LBY, JA7MSQ, JA7OZW, JH7VHZ, JH7VXM, JR7LYA, JJ7EKH, JJ1XGF, JQ1NBV.

JA9YAA: JG2KKG, JH9KVF, JN2QCV, JM2FCJ, JE0ACV, JQ2HDS. **JH5ZJS:** JA5BJC, JA5FDJ, JA5JCC, JA5THU, JH5RXS, JR5JAO, JR5VHU. **JO1YAO:** JA1ATK, JA1OYY, JA1PEJ, JA1QJK, JH1AEP, JH1AZO, JR1RWJ, JL1TXC, JM1NKT. **K1GW & K1ART:** W6PH, **K1KI & K1CC:** KA1TAF, K1PI, KF2XK, KM1P, K1TI, W2EQ. **K3ANS & N3RCA:** NY3C, N3MTU, WF3H, N2KJM, N2BJM, WB6OKK, N3IYX, K3ZTJ. **K3II & N3BDA:** WB3ESS, **K3LR & N3RA:** N3BJ, N9RV, K8GL, K8GG0, N9HZQ, K3DR, W8JV, N8SW, K8CX, ND8L. **K7FR & W7WMD:** N7AU, XX7R. **KC1XX & KM3T:** KC1F, AD1C, WZ1R, K1DG, KB1AWE, K1EA, AA1ND, PL1JTE. **KG6LF & WA6QG:** **KS9K & KA9FOX:** K9GS, K9PW, NB9C, N9AU, WB9TIY/W9RM, WE9V. **KY3N & W3FV:** WB3FZ, K3WJV, KQ2M, WB3LFZ, K3OX. **LA1K:** LA5GIA, LA5NJA, LA70JA, LA9QIA, LA8UGA, LA3JJA, LA8VJA, LA1BFA.

LU4FM: LU1FOW, LU1FZR, LU4FPZ, LU5FYR, LU5FYV, LU9FDG, LU9FIO, LU9FOT, AZ8FAG, LU2FYU, SM0JHF. **LY7A:** LY1EE, LY2AO, LY2BMX, LY2BUE, LY2KZ, LY2NK, LY2UF, LY3DA, LYR346, LYR728, Toleikis, Jasiluis. **M6T:** G4BAH, G4IFB, K1XX, G0W0CW, G4VMM, G4WFR, G3V4B, G4BUJ, G4BWP, G4PQ, G0AEV, G0KRL, G0AFI, G0HSS, G7ABQ, G4SWX, G4AXX, G4KNO. **N0UEI & KE0MF:** KB0NUY. **N2RM & KA2AEV:** KZ2S, K3UA, N2AA, N2NT, N7B5, W2R0, KE2PF, W8ZK, WM2H, KB2POP, N2BCC. **N4ZC & K2SD:** KB2LH, AA4SQ, K4HA, K4MA, K4MQG, K4UHL, K4ZA, K4UAV, N4VLQ, W4WV, WA4UNZ, WD4BTF, W65M. **N6AW & W6AM:** W6HT, K6HMS, KEWS, K7JYE, KC6CNV, N6NU, N7QQ, N6FH. **NQ4I & W4IR:** N23I, K04HC, K4MZU, K14FW, KM4HH, KF4CI, K4BAI. **OK1KIR:** OK1PG, OK1AWH, OK1IPN, OK1IMC. **OL5T:** OK1NR, OK1DNR, OK1DXF, OK1HSK, OK1AMM, OK1MUJ, OK1TVA, OK1FX.

OT6A: DB6JG, DF3TJ, DK3JE, DL2GR, DL3EBM, DL8SCJ, OE2GN, OE8MON, ON1AEI, ON1AFF, ON1AWB, ON1BCJ, ON1CIM, ON1DAL, ON1DEK, ON1DHI, ON1GL, ON1MCI, ON2AIM, ON2BDD, ON4AJV, ON4AML, ON4ASB, ON4AWH, ON4AWU, ON4AWV, ON4ABG, ON4BAW, ON4BBL, ON4BI, ON4CBP, ON4CDD, ON4CDE, ON4CDK, ON4DB, ON4FG, ON4FI, ON4VT, ON5CD, ON5DH, ON5GO, ON5OT, ON5UM, ON6DN, ON6HP, ON6HZ, CN6MR, ON6PU, ON7AV, ON7HU, ON7NB, ON7NQ, ON7SF, ON7VU, ON7YZ, ON7ZM, ON9CFB, ONL481, PA3ET, PA3EVL, PA3GOJ, VE5WQ, Anouk, Jeaninne.

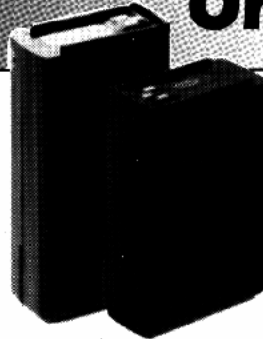
Nathalie. **PJ9E:** K32XZ, N3ED, K3EST, WA3LRO, W3UM, N4RV, NL7GP, N7ZZ. **R3AA:** RZ3BW, RA3CC, RA3CW, RX3APM, UA3BL, UA3-170-79. **S53M:** S54AA, S51DB, S53WV, S510I, S59KW, S5120, S51RJ, S51DM, S57C, S5320, S51RS, S51FB, S51ZX.

TK1A: DL4MCF, DL1MAJ, D9LJ, DK6WL, DL4MEH, TK5NN, TK5EP, DF9RX, TK5MH, TK1BI, DK4VW, DL6RAI, V26B: AB2E, N3ADL, WB2P, KR2J, WA2UDT, K3MCH, KF3P, K4VUD, WT3Q. **VB9DH:** K2NJ, KB2VIE, NR2H, NS2K, WA2ASM, WU3A, VE1RM, VE2ZP, VE9AO, VE9DQ, VE9GJ, VE9MY, VE9WH, VE9XX. **VP5T:** N2VW, WA2VYA, WB2YDF. **W0AH/9:** N0AXL, AA0VQ, N9TFC, N9EU, N9QY, DL1QQ. **W1FJ & W1KM:** N1BB, K1XM, NB1B, K1CB, K2AJ, WB2DND, WT10, WA1KSY, W1PH, KA1ZAK, WA1QGC. **W2AX1 & K2LE:** N2UN, VE1XT, VE1AL, NA2M, K2SX, N2FF. **W2VP:** K2TR, K2XA, K2ONP, NQ2D, KD2RD, WA2SPL, NJ1F. **W3GN0 & W3ZZ:** K3SKE,

AA6DC, WA3WJD, WR3Z, WI2T. **W3PL & K1HTV:** K1RZ, N3AHA, ND3F, N3KTV, K3RA, W3UR, K3ZZ, W4ZY, N5OKR. **W4IY:** WD4KXB, KJ4VG, K04FM, WB4NFS, WB4RMJ, KC2ZHQ, AE4DG, AC4XT, KC4RFM, N8NEU, KA4RRU, AA3KX, KU3M, N4DXS, KT4SC.

W4MYA & N4EHJ: AD4TS, WA4DAI, KD4JXY, WA4QDM, KS4RX, KC4AUF, WU4G, WK4Y, WB8GAU, AD4KE, WB4GVZ, KB4DI. **WH6R & KH6HF:** KH6FN, AH6MZ, K1ER, NHEUV, NH6XO, KH5JAT, NH6YK, KH6U, KH6IR, WH6KA, KH6HKL, WH6EU, WH6XR, KH7BM, AH6HU. **WP2AHW:** K04GC, AB4NS, K06VW, WX8N, AE4FY, AE4SJ. **XX9X:** OH1KAG, OH2BH, OH2BV, OH2PM, OH6DO, XX9AL, XX9XC, XX9MD. **ZM2K:** ZL2AHC, ZL2AMI, ZL2BHS, ZL2BI, ZL2BSJ, ZL2DX, ZL2IC, ZL2IF, ZL2MF, ZL2TB, ZL2TJG, ZL2TYD, ZL2UDF, ZL4SS. **ZV2EPA:** PY2PA, PY2NMA, PY2ASA, PY2BW, PF5LL, PY2YV, PY2AH, PY2AQW, PY2EVW.

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PB25S/26S	8.4 1200ma NiCd	FNB-41M	9.6 900ma NiMH
PB-7S	7.2 1200ma NiCd	PB-13SM	7.2 1300ma NiMH

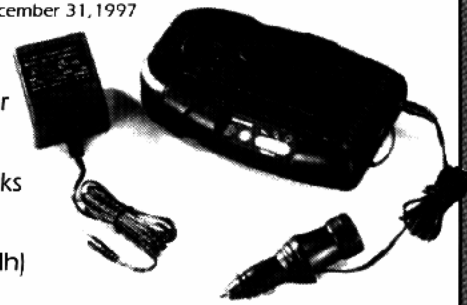
Above NiCd battery packs are warranted for 12 months from date of purchase.

Above NiMH battery packs are warranted for 6 months from date of purchase.

PERIPHEx REPLACEMENT BATTERIES

Policies and prices subject to change without notice.
Offer expires December 31, 1997

- For: Communications, Laptop, Camcorders & Many Other Applications
- Charges 4.8V, 6.0V, 7.2V, 8.4V, 9.6V, 10.8V, 12.0 Volt Packs
- Chemistries:
Nickel Cadmium (Ni-Cd)
Nickel Metal Hydride (NiMH)
- Discharges (Conditions)
- Rapid Charges (with Polarity Protection)
- Can be used in your Vehicle (Except for 10.8V & 12.0V Packs)



Advanced Battery Systems, Inc., 300 Centre Street, Holbrook, MA 02343
(800) 634-8132 • (617) 767-5516 • Fax: (617) 767-4599
<http://home.navisoft.com/periphex>

Contest Results (from page 24)

Table with columns for country/region, call sign, and scores. Includes entries like *W9IL, *WA9CCQ, *N9THK, etc.

Table with columns for country/region, call sign, and scores. Includes entries like N2IC/O, W3GRW/B, NX0I, etc.

Table with columns for country/region, call sign, and scores. Includes entries like KV0Q, K62TO, K6CS, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ALASKA, WL7MA, *NL7DU, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ANGUILLA, VP2E, *VP2E, etc.

Table with columns for country/region, call sign, and scores. Includes entries like BAHAMAS, *C6AHU, etc.

Table with columns for country/region, call sign, and scores. Includes entries like BARBADOS, *8P9GU, etc.

Table with columns for country/region, call sign, and scores. Includes entries like BELIZE, *V31MX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like BERMUDA, VP9ID, etc.

Table with columns for country/region, call sign, and scores. Includes entries like BRITISH VIRGIN ISLANDS, *VP2VF, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CANADA, VO1MP, VY2LI, etc.

Table with columns for country/region, call sign, and scores. Includes entries like VE2AYU, VE2VTU, VA3ZC2, etc.

Table with columns for country/region, call sign, and scores. Includes entries like C13EJ, A 5,117,408, etc.

Table with columns for country/region, call sign, and scores. Includes entries like C13XN, VE3KPU, VA35WG, etc.

Table with columns for country/region, call sign, and scores. Includes entries like VE3ZTH, VE3DNR, VE3HX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like VE4RP, *VE4COZ, etc.

Table with columns for country/region, call sign, and scores. Includes entries like VE6NAO, VE6LB, *VA6JO, etc.

Table with columns for country/region, call sign, and scores. Includes entries like VE7BQM, VE7XO, VA7A, etc.

Table with columns for country/region, call sign, and scores. Includes entries like VE7EME, VE7IN, *XK7CFD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like VE7GKI, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CAYMAN ISLANDS, *ZF2DR, etc.

Table with columns for country/region, call sign, and scores. Includes entries like COSTA RICA, T17DBS, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CUBA, CO2KG, *CMRDC, etc.

Table with columns for country/region, call sign, and scores. Includes entries like GUADELOUPE, FG5BG, etc.

Table with columns for country/region, call sign, and scores. Includes entries like HAITI, 4V2A, etc.

Table with columns for country/region, call sign, and scores. Includes entries like JAMAICA, 6Y5XX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like MARTINIQUE, FM5BH, etc.

Table with columns for country/region, call sign, and scores. Includes entries like MEXICO, XE1VV, *XE/WA2C, etc.

Table with columns for country/region, call sign, and scores. Includes entries like PANAMA, *HP1BYS, etc.

Table with columns for country/region, call sign, and scores. Includes entries like PUERTO RICO, *WP4NHM, etc.

Table with columns for country/region, call sign, and scores. Includes entries like SAN ANDREAS & PROVIDENCIA, *HK0TCN, etc.

Table with columns for country/region, call sign, and scores. Includes entries like SAINT MAARTEN, *PJ8CW, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ST. KITTS & NEVIS, V47KP, *V44NK, etc.

Table with columns for country/region, call sign, and scores. Includes entries like AFRICA, AFRICAN ITALY, IG9/IT9NUE, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ANGOLA, D25L, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ASCENSION ISLAND, ZD8Z, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CANARY ISLANDS, FA8RVX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *EA8AHE, *EA8AHG, *EA8BGO, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *EA8AD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CENTRAL AMERICA REPUBLIC, TL8MS, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CEUTA & MELILLA, EA9IE, etc.

Table with columns for country/region, call sign, and scores. Includes entries like DJIBOUTI, J28JY, etc.

Table with columns for country/region, call sign, and scores. Includes entries like GABON, *TR8IG, etc.

Table with columns for country/region, call sign, and scores. Includes entries like GHANA, *9G1BJ, etc.

Table with columns for country/region, call sign, and scores. Includes entries like GUINEA-BISSAU, J52IM, etc.

Table with columns for country/region, call sign, and scores. Includes entries like IVORY COAST, TU2XZ, etc.

Table with columns for country/region, call sign, and scores. Includes entries like LESOTHO, 7P8, etc.

Table with columns for country/region, call sign, and scores. Includes entries like MADEIRA ISLANDS, CT3DL, etc.

Table with columns for country/region, call sign, and scores. Includes entries like PRINCE EDWARD & MARION ISLAND, Z58IR, etc.

Table with columns for country/region, call sign, and scores. Includes entries like MOROCCO, *CN8NK, etc.

Table with columns for country/region, call sign, and scores. Includes entries like MOZAMBIQUE, C91CO, etc.

Table with columns for country/region, call sign, and scores. Includes entries like NIGERIA, 5N0MVE, etc.

Table with columns for country/region, call sign, and scores. Includes entries like REUNION, FR5DX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like RWANDA, *9X4WW, etc.

Table with columns for country/region, call sign, and scores. Includes entries like SEYCHELLES, S79MAO, etc.

Table with columns for country/region, call sign, and scores. Includes entries like SIERRA LEONE, *9L1MA, etc.

Table with columns for country/region, call sign, and scores. Includes entries like SOUTH AFRICA, ZS6SA, etc.

Table with columns for country/region, call sign, and scores. Includes entries like SWAZILAND, 3DA0NX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like TUNISIA, 3V88B, etc.

Table with columns for country/region, call sign, and scores. Includes entries like UGANDA, *5X4F, etc.

Table with columns for country/region, call sign, and scores. Includes entries like WESTERN SAHARA, *S01M, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ZAMBIA, J92FR, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ZIMBABWE, *Z23JO, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ASIA, ARMENIA, *EK4GK, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ASIATIC TURKEY, YM2ZM, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *TA4ZM, *TA3J, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ASIATIC RUSSIA, RM9RX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL1MUT, *JE1XCZ, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL1YVH, *JL1MUT, etc.

Table with columns for country/region, call sign, and scores. Includes entries like UAB5J, UAB9Y, etc.

Table with columns for country/region, call sign, and scores. Includes entries like AZERBAIJAN, *4K9W, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CHINA, *BY1K1VWL, etc.

Table with columns for country/region, call sign, and scores. Includes entries like CYPRUS, C40M, etc.

Table with columns for country/region, call sign, and scores. Includes entries like HONG KONG, VR2RX, etc.

Table with columns for country/region, call sign, and scores. Includes entries like INDIA, *VU2PAI, etc.

Table with columns for country/region, call sign, and scores. Includes entries like ISRAEL, 4X/OK1JR, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *4Z5FW, etc.

Table with columns for country/region, call sign, and scores. Includes entries like JAPAN, JF10PL, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country/region, call sign, and scores. Includes entries like *JL7IABD, etc.

Table with columns for country codes, values, and additional codes. Includes entries for *Y07ARY, *Y08BCE, *Y03NL, *Y09IAL, *Y02QY, *Y03JF, *Y04FRF, *Y09AHX, *Y02CJX.

SAN MARINO

Table with columns for country codes, values, and additional codes. Includes entry T77WI.

SARDINIA

Table with columns for country codes, values, and additional codes. Includes entries IS0QDV, *IS0NHT, *IS0WBT, *IS0LLJ.

SCOTLAND

Table with columns for country codes, values, and additional codes. Includes entries GM3BCL, GM0EG1, *GM06X, *GM0FET, *GM0TGF, *GMK6GAO.

SICILY

Table with columns for country codes, values, and additional codes. Includes entries IT9STG, IT9SBL, *IT9ALP, *IT9DAA, *IT900Y, *IT9ORA, *IT9B, *IT9CML, *IT9THD.

SLOVAK REPUBLIC

Table with columns for country codes, values, and additional codes. Includes entries OM8A, OM3A, OM8WR, *OM3PK, *OM3YK, *OM2SN, *OM3NTP, *OM5FA, *OM5YB, *OM5KM, *OM7V, *OM4WW.

SLOVENIA

Table with columns for country codes, values, and additional codes. Includes entries S50A, S59ZA, S59L, S55A, S59AA, S51NY, S51AY, S59A, S50U, S53R, S57DX, S56A, S50C, S53EA, S57AL, S51VM, S58WW, S57D, S51Z, S53FO, S54DL, *S51FA, *S51TX, *S51T, *S53CX, *S57J, *S53BM, *S57T, *S57U, *S50L, *S54ZZ, *S50D, *S54A, *S57CBS, *S58J, *S52SK, *S57MRG, *S57PWI, *S57NPR, *S57KAA, *S54E.

SPAIN

Table with columns for country codes, values, and additional codes. Includes entries EA3FQV, EA5GRC.

Table with columns for country codes, values, and additional codes. Includes entries EA3GBU, EA5GRB, EA1J0, CA1EVN, EA1MV, EA5EYJ, EA4AJB, EA7AKK, EA5AEN, EA3WTV, EA3GKF, FA1HP, EA3AQQ, EA5GJM, EA5GOZ, EA1EXY, EA5G10, EA5AKR, EA2ARW, EA5FME, EA7CWA, EA7BR, EA5KK, EA7EZ.

Table with columns for country codes, values, and additional codes. Includes entries EA7BA, EA2BP, EA1FDJ, EA2RW, EC3AJY, EA2IA, EA5GMB, EA3APS, EA1DLU, EA7DHP, EA1BCK, *EA3BK1, *EA3ELZ, *EA7RU, *EA1DA, *EA1ABM, *EA1BLX, *EA7AFM, *EA4AV, *EA5EYJ, *FA1AW, *EA3NA, *EA5AFH, *EA5EOC, *EA4BL, *EA1J, *EA1FAD, *EA1BAF, *EA3ADM, *EA3KT, *FA1GFZ, *EA5JC1, *EA5FWW, *EC5CFQ, *EA1ET, *EA5AML, *EA5XN, *EA5XX, *EA4BHK, *EA5ANY, *EA4EIS, *EA1APS, *EA1RZP, *EA1AEG, *EA3OP, *EA4AQ, *EA1J, *EA7GX, *EA7EWW, *EA7D, *EA5GHI, *EA3ATH, *EA5ABN, *EA5CRU, *EA3AUM, *EA3AIM, *EA1BAW, *EC5CWA, *EA7CWW, *EA3ASX, *EC5AJW, *EA1AUT, *EA1DPP, *EA1ASC, *EA23DR, *FC1ANZ, *EC5AAK, *EA1FY, *EA4DJ, *EA3FFE, *EA7TG, *EA3AM, *EA2CR, *EA3EAN, *EA7BYM, *EA3AQL, *EC1DFA, *FA3TA, *EC1AGL.

Table with columns for country codes, values, and additional codes. Includes entries *EC3AEP, *EA1RLF, *EA1CLN, *EA1BXG, *EC5A1H, *EA7HBP, *EA7FU, *EA3FCQ, *EA4DXP, *EA7ALN, *EA3TI, *EA7AKB, *EA7GR, *EA4DXY, *EA7GT, *EC3AIC, *EA3ANE, *CA7ANM, *EA3GJH, *EC3AHT, *EC1DKD, *EA7A, *EC3AKF, *EA1BTK, *EA7GGP, *EA7ACV, *EC5ADY, *EC2AFD, *EC5CMQ, *EC5AL, *EC3AJF, *EC3GMT, *EC5ABY, *EC4AEK, *EC1AOD, *EA3GHZ, *EA1AK, *EA1AJV, *EA4BFK, *EA1CE, *EA3AJP, *EA4ELA, *EA1FK, *EA3BD, *EA5EOR, *EA1DGT, *EA3CJ, *EA3DNC.

SWEDEN

Table with columns for country codes, values, and additional codes. Includes entries SM5AOE, SM3BIZ, SM7DXQ, SM3AF, SM5OK, SM7AIL, TS0MG, SK0UX, SM5LPO, SM6DER, SM2DMU, SM6DOI, *SM3PZG, *SM0BDS, *SM2IEO, *SM7BZV, *SM7FTG, *SM4TIY, *SM0DFM, *SM7SHF, *SK0PR, *SM7BHM, *SM4HEJ, *SM5BDA, *SM5DUT, *SM5FUY, *SM5AHU, *SK7BQ, *SK4UW, *SM7VZX.

SWITZERLAND

Table with columns for country codes, values, and additional codes. Includes entries H89HFN, H89DX, *H89BT1, *H89ARF, *H89BN, *H89QA, *H89HFD, *H89HFN, H89DX, *H89BT1, *H89ARF, *H89BN, *H89QA, *H89HFD, *H89HFN, H89DX, *H89BT1, *H89ARF, *H89BN, *H89QA, *H89HFD.

SWITZERLAND

Table with columns for country codes, values, and additional codes. Includes entries H89HFN, H89DX, *H89BT1, *H89ARF, *H89BN, *H89QA, *H89HFD, *H89HFN, H89DX, *H89BT1, *H89ARF, *H89BN, *H89QA, *H89HFD.

UKRAINE

Table with columns for country codes, values, and additional codes. Includes entries UT7EZ, UT4UZ, UT0D, UX1UA, UX5UO, UT8IM, UT4FK.

Table with columns for country codes, values, and additional codes. Includes entries UY2ZA, UR4QHJ, UY3CW, UX1HV, UT1IA, *UX4UM, UT7LA, USSORW, UT5UOC, E06F, UX0HA, UX9V, EM7Q, JUSSEHY, JY5TE, EN6Q, UR7E, UX4CW, UX0KN, UR5WAL, US1I, *UY5ZZ, UX0UM, UR8V, UT2QT, UX4UA, US77J, UT1CZ, UT1WZ, *UX3M, *UX5EF, *URSIAE, *UR4IAY, *URS2OK, *USWF, *UR4MS, *UT7EG, *UT9IR, *UT1WW, *USSZE, *UR7TA, *UR7TZ, *UT4T, *UR7UL, *UR4QF, *UT1ZZ, *URSTZ, *URSZAQ.

WALES

Table with columns for country codes, values, and additional codes. Includes entries GW4BLE, GW4BVJ, *GW0GE1, *GW3SYL, *GW0MHK, *GW6J, YU7AD, YU7AV, YU7BW, YU7SF, YU8DX, YU1KB, YU1BB, YU7E, YU7A, 404D, YU7T, YU4WU, YU1ZZ, YU2IAU, *YU7CB, *YT0E, *4NISM, *YU7KM, *YU7BJ, *4N1A, *YU1BL, *YU1AST.

YUGOSLAVIA

Table with columns for country codes, values, and additional codes. Includes entries YU7AD, YU7AV, YU7BW, YU7SF, YU8DX, YU1KB, YU1BB, YU7E, YU7A, 404D, YU7T, YU4WU, YU1ZZ, YU2IAU, *YU7CB, *YT0E, *4NISM, *YU7KM, *YU7BJ, *4N1A, *YU1BL, *YU1AST.

YUGOSLAVIA

Table with columns for country codes, values, and additional codes. Includes entries YU7AD, YU7AV, YU7BW, YU7SF, YU8DX, YU1KB, YU1BB, YU7E, YU7A, 404D, YU7T, YU4WU, YU1ZZ, YU2IAU, *YU7CB, *YT0E, *4NISM, *YU7KM, *YU7BJ, *4N1A, *YU1BL, *YU1AST.

YUGOSLAVIA

Table with columns for country codes, values, and additional codes. Includes entries YU7AD, YU7AV, YU7BW, YU7SF, YU8DX, YU1KB, YU1BB, YU7E, YU7A, 404D, YU7T, YU4WU, YU1ZZ, YU2IAU, *YU7CB, *YT0E, *4NISM, *YU7KM, *YU7BJ, *4N1A, *YU1BL, *YU1AST.

YUGOSLAVIA

Table with columns for country codes, values, and additional codes. Includes entries YU7AD, YU7AV, YU7BW, YU7SF, YU8DX, YU1KB, YU1BB, YU7E, YU7A, 404D, YU7T, YU4WU, YU1ZZ, YU2IAU, *YU7CB, *YT0E, *4NISM, *YU7KM, *YU7BJ, *4N1A, *YU1BL, *YU1AST.

YUGOSLAVIA

Table with columns for country codes, values, and additional codes. Includes entries YU7AD, YU7AV, YU7BW, YU7SF, YU8DX, YU1KB, YU1BB, YU7E, YU7A, 404D, YU7T, YU4WU, YU1ZZ, YU2IAU, *YU7CB, *YT0E, *4NISM, *YU7KM, *YU7BJ, *4N1A, *YU1BL, *YU1AST.

Table with columns for country codes, values, and additional codes. Includes entries AUSTRALIA, VK3TZ, VK8AV, VK1MJ, *VK2APK, VK5DE, VK8BE, *VK2ARJ, *VK2VM, *VK1KV.

AUSTRALIA

Table with columns for country codes, values, and additional codes. Includes entries AUSTRALIA, VK3TZ, VK8AV, VK1MJ, *VK2APK, VK5DE, VK8BE, *VK2ARJ, *VK2VM, *VK1KV.

BELAU

Table with columns for country codes, values, and additional codes. Includes entries T8/KCDD, V85HG.

BRUNEI

Table with columns for country codes, values, and additional codes. Includes entries BRUNEI, V85HG.

EASTERN MALAYSIA

Table with columns for country codes, values, and additional codes. Includes entries 9M8R.

HAWAII

Table with columns for country codes, values, and additional codes. Includes entries AH7G, WH6CQH, KH6FG, KH6CC, *KH6, *FH7FS, *KH6, *KGSS.

INDONESIA

Table with columns for country codes, values, and additional codes. Includes entries YB1AQS, YB9BV, YB5QZ, YB2UDH, *YB6INU, *YB7XTJ, *YB9CGC, *YB9WGA, *YB9ZEE, *YB0HD, *YB6PUP.

NEW ZEALAND

Table with columns for country codes, values, and additional codes. Includes entries ZL1AXQ, *TX8FU.

NEW CALEDONIA

Table with columns for country codes, values, and additional codes. Includes entries TX8FU.

MARIANA ISLANDS

Table with columns for country codes, values, and additional codes. Includes entries KH0I, WH0AAV, KH6CG, KH6BX, *KH0CE.

PHILIPPINES

Table with columns for country codes, values, and additional codes. Includes entries DU9RG, 4F4IX, *DU1SAN, *DU1NYC, *4F5MW, *4F5CM, *DU3WPX, *DU1C0D, *DU3RCM, TONGA, *A35SQ, SOUTH AMERICA, ARGENTINA, LR3F, LU8FDZ, LU7MAX, LU7ETB, LU4HAW, LU3FZA, LU1MA, LU2UDW, LU4VZ, LU3FMR, LW8EXF, AY7D, LU2QC, LU9MBY, LU2HADO.

UT7W	2,224,651	1870	122	489
UT7L	1,207,458	1475	113	405
UR4EYN	567,029	1274	65	242
UR4MWW	151,490	545	46	164
UT4UWC	141,464	628	44	119

WALES
GW8GT 4,190,774 3651 116 458

YUGOSLAVIA
YU1L 234,960 756 51 189
Z37FCA 928 20 6 17

OCEANIA
AMERICAN SAMOA
KH8 /N50LS 4,033,341 4015 122 229

AUSTRALIA
VK4HZ 2,111,170 2190 107 228
VK6LW 1,326,808 1567 91 210
VK1CX 743,052 1154 58 170
VK4XY 566,196 1141 65 109
VK6ANC 421,440 632 74 166

BELAU
T88T 3,143,232 3432 105 201

GUAM
NH2C 6,766,810 4500 145 369

MARIANAS
KH8A 3,336,610 3460 105 221

NEW CALEDONIA
FK5DX 2,203,140 2668 90 202

PHILIPPINES
DX1CW 776,606 1271 69 145

SOUTH AMERICA
ARGENTINA
LU4HH 2,630,040 2453 104 268
LU7HLF 2,423,574 2512 101 232
LU1UM 2,006,136 2336 86 212
LR3Y 1,247,819 1913 61 166
LU1NF 908,208 1069 98 208
LU4DD 530,796 1034 56 122

BRAZIL
ZZZE 2,201,633 2085 99 268
PR5M 923,436 1024 98 241
ZW8B 201,448 465 43 106

CHILE
XR8S 4,774,714 3913 116 311
CE5JA 41,006 204 40 61

FERNANDO de NORONHA
ZX0F 20,167,146 8120 171 678

FRENCH GUIANA
FY5KE 6,921,091 4566 120 407

GALAPAGOS ISLANDS
HC8N 17,715,256 8288 157 575

NETHERLAND ANTILLES
PJ9T 7,953,660 4649 134 451

PARAGUAY
ZP0R 4,001,256 2868 133 371

URUGUAY
CV1T 1,204,803 1655 73 190

VENEZUELA
4M5X 8,336,121 5093 142 539

**MULTI-OPERATOR
MULTI-TRANSMITTER
NORTH AMERICA**

UNITED STATES
KC1XX 10,773,260 5299 151 621
N2RM 10,653,600 4865 160 640
K3LR 10,332,618 5015 156 622
W3LPL 10,113,178 4766 159 635
W2PV 7,975,702 4229 146 575
K1KI 6,937,164 3578 152 580

W1FJ	6,340,609	3333	42	555
N4ZC	5,930,184	3264	146	541
KY3N	5,924,019	3498	44	537
AA1AS	5,887,080	3462	47	543
W4MYA	5,228,605	3036	46	539
K59K	4,561,557	2779	141	510
N04I	4,291,728	2862	46	490
N6AW	3,939,562	2622	145	396
W4IY	3,843,203	2458	134	483
W2AX/1	3,762,654	2467	135	471
K3ANS	3,261,734	2080	131	450
W3GNO	2,676,416	1671	128	461
W0AII/9	2,341,865	1850	126	419
K3II	2,115,225	1387	119	434
K1GW	1,978,590	1391	110	395
K81BQZ	979,464	821	100	344
KG6LF	688,564	810	97	219
K7FR	489,552	637	89	193
N0UEI	262,656	399	74	182

ANTIGUA
V26B 25,249,032 13301 155 673

CANADA
V89DH 12,277,488 7919 133 543

GRENADA
J3A 11,393,317 8122 139 504

SABLE ISLAND
CY0XX 5,616,065 5173 99 356

TURKS & CAICOS
VP5T 7,967,565 7100 116 399

ASIA
JAPAN
JH5ZJS 9,266,992 5214 171 508
JA1YOU 3,901,478 2630 161 413
JA7YR 2,889,087 2329 143 318
JA3YKC 2,465,728 1930 140 332
JO1YAO 1,865,427 1552 44 319
JA9YAA 804,816 861 119 249

MACAO
XX9X 9,529,912 8226 162 482

THAILAND
HS1AZ 5,658,598 5498 154 429

EUROPE
BELGIUM
OT6A 12,604,410 8456 163 556

CORSICA
TK1A 17,035,667 11422 169 744

CROATIA
9A1A 14,725,445 9042 191 768
9A8000S 7,865,676 7146 51 535

CZECH REPUBLIC
OL5T 1,559,718 2135 98 340
OK1KIR 45,424 201 40 127

ENGLAND
M6T 12,777,856 9048 164 732

EUROPEAN RUSSIA
R3AA 5,377,848 4650 159 555

GERMANY
DF0DX 4,711,680 4085 142 578
DK5E 2,847,733 2519 121 502
DF3QG 670,320 841 98 322

ITALY
IR30 929,448 1093 103 365
IK3SSJ 460,736 859 80 233

LEICHTENSTEIN
HB8 /HB9AON 3,839,562 4640 99 420

LITHUANIA
LY7A 2,986,368 4297 124 492

NORWAY
LA1K 250,206 788 43 180

PORTUGAL
CQ1A 1,025,308 1829 71 203

SCOTLAND
GM6V 6,305,760 6088 129 591

SLOVENIA
S53M 8,521,296 6295 160 624

SPAIN
EA3FP 4,560,523 3981 141 508
ED7VG 632,872 1088 75 256

UKRAINE
EM2I 9,003,738 7526 154 617

OCEANIA
HAWAII
WH6R 7,203,307 5528 145 304

NEW ZEALAND
ZM2K 2,657,844 2537 112 259

SOUTH AMERICA
ECUADOR
HC0E 10,157,134 6423 130 421

ARGENTINA
LU4FM 8,150,208 6007 132 412

BRAZIL
ZV2EPA 570,456 950 68 160

NETHERLAND ANTILLES
PJ9E 32,588,850 13546 167 694

CHECK LOGS

Our thanks to the following stations who sent in check logs:
4N7Z 4Z5GV, AA30C, CP*FF, DJ0SH, DK5CS, DL1ASF, DL1HSF, DL2RTL, DL4HRH, DL5AMF, DL5ANS, DL5JWW, DL8AXJ, DL8UAJ, EA1ASB, EA1ATL, EA1CBX, EA1CXY, EA1FAE, EA10B, EA2AGB, EA2BAP, EA2COP, EA3AFD, EA3AH, EA3ALV, EA3AYQ, EA3FYD, EA4AFI, EA4AYB, EA4EER, EA4EOI, EA4HR, EA5ANG, EA5DIT, EA5FNE, EA5FUF, EA5GXC, EA5GMA, EA5GRN, EA5SM, EA6ACF, EA6IB, EA7CP, FA7DNF, FA7GVW, FA8AM, FA9TO, FC1APA, FC1CC, FC2AGW, FC3AGC, FC3AJW, EC4AJV, EC5AGD, EC5AHZ, EC5AIA, EC5CXI, EC7AIR, EC7EAN, ES5RW, EU2MM, EW3LN, EW8CM, EW8VD, EW8WH, F5 DB, G0WAZ, HB9JQH, IK2VUC, IK2WJT, K6FM, K7EFB, K8RF, KA9IMX, KB9NMU, KR0I, KX7J, LA2MJA, LA2OH, LA3JHA, LA4OGA, LA5ZC, LA6HHA, LA7CL, LA7XIA, LA8CD, LA8HGA, LA8NC, LA8XM, LA8ZJA, LA9LO, LA9NM, LA9VGA, LU7DW, LW2DLS, LZ1CW, LZ1GU, LZ2KVV, OE7SEL, CH*LLH, OH1MCX, OH1TV, OH1XX, CH2BMH, OH3TY, OH3WR, OH6TS, OK1RV, ON7YP, PA3BTH, PA3EXI, PU3WPA, PW2S (Dpr. PY26JR), PY2XT, PY2NQ, PY2NW, PY2ZZ, PY3PT, PY3TD, PY5IP, RA4LAH, RU3RR, RV4LC, SM0BNK, SM0BXT, SM0CSX, SM0NJO, SM3MHD, SM5ARL, SM5BFJ, SM5CCH, SM6PVB, SP-0189-GD, SP2LTK, SP2UUU, SP3EY, SP3GK/p, SP3MEP, SP3VAU, SP4AS, SP4CMW, SP4DZT, SP4GDC, SP4GFG, SP4SFA, SP4WRF, SP5AHZ, SP5GKN, SP5MXY, SP6BEN, SP6CES, SP6CYX, SP6EJY, SP6FIB, SP6FRQ, SP6FVF, SP6JZB, SP6NVK, SP6OJG, SP7AWG, SP7JQQ, SP8FHM, SP8HKT, SP9CLO, SP9MDY, SP9MCH, SP9WJZ, SP9WZA, SP9YEA, SQ4CTM, UA0AOZ, UA3VVE, UA3WCW, UA6BS, UN7TX, UN9PO, UR5F, UR5HSC, UTSUAG, UJ9J, VE3BR, VE4JB, W1PCD, W7LBN, YL2IP, YL3BZ, YQ2KJW, YQ3*WC, YQ6AHP, YQ7KFX, YQ7LKW, YQ8AII, YQ8ATT, YV5NTP, YV6DBX.

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