

Results of The 1990 CQ World-Wide DX SSB Contest

BY BOB COX*, K3EST/6, AND LARRY BROCKMAN**, N6AR/4

Looking back over the last year with dramatic change and turmoil in the world almost every day, it is hard to imagine what else lies around the corner. As I sit and write this article, the moon is eclipsing the sun in northern California. Everyone along its path has temporarily forgotten their troubles, and they are focused on a common event. Just like last year, we are all forgetting about our troubles and are joined in a worldwide engrossing event.

Here are a few comments that stand out: "Never had more fun in my whole life" . . . 9M6HF. "Ham radio is like golf. You don't have to be good at it to have fun" . . . K16PG. "Anyone who doesn't work this contest is brain dead!" . . . N6VMS. Thanks for a once-in-a-lifetime contest. CQ WW is the best! . . . KR0Y. "Over 100 countries on one band in a contest for the first time" . . . N2UN. "This was my first contest 'without pencil'" . . . OH1BV. "Many hams, much QRM, big pleasure" . . . YO3DCO.

Everyone was hoping that cycle 22 would hold on long enough for the 1990 fall season. It looked like the cycle was declining slowly and that great conditions on the high bands would soon be put to bed for another 11 years. Contesters from Novices to old timers kept their fingers crossed. DXpeditions were heading out to the far corners of the world, the result of months of planning by American, Japanese, Finnish, French, German, Hungarian, and English hams. As the clock ticked toward 0000Z, anyone who tuned the bands could hear the encouraging number of stations from all over the world testing out their signals. "CQ, this is CN0A. Anyone copy?" The roar on the frequency was encouraging. CQ, this is it. This is the fun that novices and experts both share. Stay tuned for the results.

All-Band Results

If it's true as K16PG commented that ham radio is like golf, then this year's winner finished far under par. Martti Laine, OH2BH, operating from CT3BH, talked his way to a new world record that makes everyone take notice. Martti asked, "Where is the world's best location? Many people go too far out for fishing." Martti sure found the best fishing for the 1990 contest, reeling in over 7000 QSOs. Combining good multipliers on the low bands because of his proximity to Europe with high rates on the high bands, he broke his old record by 2 million points.

Over in the Pacific Ocean, Rich, N6KT, was also looking for that same special location. He traveled down to HC8A, where after a week of hard work rebuilding antennas, he finished

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The operators of PJ1B, new holders of the world multi-multi record. Left to right standing K2EK, W3HHG, N4RV, KB2XZ, NL7GP, WW2Y, K2SS, K3EST, W3BSY; kneeling N3ED, N7ZZ, WA3LRO.

second in a close race with FG5R operated by Jim, W7EJ.

Go west, young man. That is exactly what the USA top scorer did. Hitting the ground running after his fine finish in the Goodwill Games, Jeff, KR0Y, steered WM5G to the USA championship. Combining the best of JAs and Europe openings made for a Texas-sized score.

Before the European signals made it to Texas, they had to pass through K300's QTH. Rick caught enough of them to take second-place honors. As Yugoslavia tries to sort out its problems, our man in Slovenia, YT3AA, had no trouble in setting his sights on establishing a new European record. He did just that. Tine handed out YT90A enough times to walk away with 7 million points and the European crown. Second place goes to Steve, GW4BLE.

High-Band Results

"Very nice to work CQ WW like inside a mosquito cloud. Hi!Hi!" . . . L4D. Well, that about sums up the activity on 28 MHz this year. From 300 to 900, the band was humming. A new world record was established by ZP0Y operated by Luis, ZP5JCY. Putting 5400 QSOs in the log is not an easy task even for an all band entry. That is just what Luis did to end up on top of PQ5C and LS6T. In the US, NR5M from Texas ran away from the pack to take top 28 MHz honors. The scores on 10 reflect the widespread band opening from 1- to 7-land in the USA top six. Bill, W0ZV, from Colorado, finished second over Doug, K1DG, from New Hampshire. Except for 4N3AA, 28 MHz was a North/South American contest. He just edged out LZ1KOZ for the high European score.

Fifteen meters was greatly improved over the previous year. Three stations broke the 2 million point barrier. K4UEE operating from P40R set a new world record. He sure likes to set new records. Every year he seems to set another one. Frank, 9Y4VU, pushed the gas-line pedal down and finished second with a fine 2.2 million points. In the US it was a northeast competition for top honors. The spot goes to NG2X, who ran away from the pack. NB2P finished second with a fine effort. Reflecting the worldwide great conditions on 21 MHz, CQ4A operated by CT1BOP finished the test with 1.7 M points for a new European record. YU3PV operating from a mountain in Slovenia drew a second-place finish.

Looking at the results on 14 MHz does not show the hard work it takes to stick with the effort in spite of the continuous QRM. Sometimes the band was open to every continent at once. If you called CQ, a JA, SV, KP4, and ZS might call you at the same time! After the dust settled, the world winner was YV3A operated by YV5IVB. Not far behind was CQ Contest Hall of Famer, Al, G3FXB. He finished as top score in Europe. Second in Europe was the famous club station YU1EXY operated by YU6AR. Finishing first in the US but just missing the US record was John, W1RR. John finished ahead of another John, K2VV.

Low-Band Results

This was quite a year. Not only were the conditions on the high bands great, but the conditions on the low were also outstanding. Over 150 countries were available on 7 MHz if you could have worked them all. The single op who



Always a big signal by the boys from RT1U, the #1 UB-score. Left to right: UT4UZ, UA9CSS, UT5UGR, UV9CP, UT3UA; front UB5CGN.

put together the best combination of QSOs and countries was ZF2JR operated by N6RJ. Jim set a new world record. In his log you could see where he checked into daytime nets to work strings of Cubans and other Caribbean stations. Second place goes 4000 miles farther east to IK5BAF, who took the European title. Second in Europe goes to avid contester DL3OI. KV0Q was doing something right. It is not easy to win this band from the west, but that is just what he did. NQ2D and W2SC/1 finished second and third, respectively.

Wow! The scores on 3.7 went through the ceiling. HA8IE was not satisfied with just breaking the European record. He set a new all-time world record as well. GW4OFQ took both second in the world and Europe. In the States, Bob, W6RJ, continued to astound the competition by finishing third in the world and number one in the USA—quite an effort from the west coast. The long-path opening to Europe must have been good. Moving up to fourth in the world and second in the US was N2KK.

Taking advantage of good top-band conditions and looking into Europe. UG6GAW more than tripled the next highest score. Of course, it is not so easy to get multipliers and QSOs from Nova Scotia. That is where VE1ZZ took second place. Once again the US's outstanding 160 meter operator is Rick, K5UR. He sure appears as the first W in a lot of DX logs. He was followed by W2FCR. In Europe UT5DK took the top-band honors by beating OM6JDX.

Multi-Op Categories

In a year with so much activity from everywhere it was not surprising to see so many high-scoring multi-single scores. The top four teams were from four different continents. The Italian team of IQ4A out-distanced the rest with an outstanding score of 17 M. Finishing second was 8P9X, a bunch of great ops who every year go on their "fishing trip" to catch the big one—the CQ WW. A joint Hungarian and Turkish team made everyone happy with YM5KA. Finishing second in Europe was the familiar club call of LZ9A.

In the USA the team of K1AR set a new US record. They did not just set the record, they exploded the old record. Using K1EA to its highest efficiency, they racked up an unbelievable multiplier. Look at their band-by-band breakdown and compare that against the multi-multis!

The multi-multi category was unbelievably fought over. All the top six world scores have a special story to tell. They brought out the best in contesting with hard work. The two South American giants, PJ1B and PJ9W, fought it out in true contesting style. Both stations were erected just for the contest. All the antennas, cabling, and electrical supply had to be put up just before the test. And these were not just little stations. PJ9W erected a station which might have been the largest ham radio installation anywhere just for the two CQ WW test weekends! For example, 24 elements on 28 MHz was just the main antenna. PJ1B was not far behind with 8 elements on 14 through 10. All PJ9W's antennas as well as their towers were homebrew!

The team of KH0AM carried all their antennas and equipment to Saipan the week before the test. After setting up on the roof of a hotel, this all-Japanese team waited to see how they would do against the Southern California Contest Club's effort at 5W1.

Meanwhile in the States, N2RM was getting ready in a small room in eastern New Jersey to try to break W3LPL's record. N5AU and W3LPL both tried to assemble the best operators they could find to operate their well-planned stations. Out in the far northwest W7XR was taking up the tradition from the Seattle area trying to win or put a scare into the east coast boys.

As the contest approached, strategy at all the multi-multis was kept very secret. What was the advantage of each of the other's band setups? Who were the other teams' operators? What were their weaknesses? How can we take advantage of the team's weak points? ... and then the contest began. After the test was finished, the new world champion was PJ1B, setting a world record that may last until the next sunspot maximum. Their 57M+ points involved great skill in passing multipliers from band to band. If you look at their multipliers, you may wonder how such a large multiplier can happen. It doesn't happen just by looking for mults or calling CQ. It means that everyone operating must know at all times which mults are needed on another band and they must know to pass them at the right time.

Fifty miles away PJ9W settled for second place in the world with 51 M points. Setting a new Oceania record was KH0AM. Trying to get as many QSOs as possible, they were even working JAs on 10 meter FM! In the US N2RM apparently found their cramped QTH to their



Where are all the young hams? They have a good foothold on Cyprus. All the operators at 5B30ES were 17 years old. Left to right: 5B4WN, 5B4XF, 5B4XN, 5B4WS.

liking by setting a new US record. Second place went to the boys from Texas. The number one score from Europe was IQ3A on a mountaintop in northern Italy.

QRP Results

Three stations topped a million points this year. Some of the operators could run stations at 60/hour for a while. The QRP category also had the lowest unique rate of anyone in the contest—less than 1%. It shows that when you call someone, you probably will have their call right. The number one score in the world this year goes to Doug, KR2Q. Operating from northern New Jersey, he operated almost the full 48 hours to edge out 4M1G. Number-three K5RX had the largest QRP multiplier in the world.

Assisted

This category continues to grow each year. Participation from Europe and Japan is growing. It appears as if the Yankee Clipper Contest Club packet system is very effective. Almost all the top ten scores are from that area. The winner of the world crown is Jeff, K1ZM, who was followed closely by K1TO. The top non-W score comes from Ulli, DJ2YA.

New Records

The following stations enter the All-Time Records list found in the October issue of CQ.

World. All Band: CT3BH (Opr. OH2BH); 28 MHz: ZP0Y (Opr. ZP5JCY); 21 MHz: P40R (Opr. K4UEE); 7 MHz: ZF2JR (Opr. N6RJ); 3.7 MHz: HA8IE; Multi-Multi: PJ1B.

North America. All Band: FG5R; 7 MHz: ZF2JR (Opr. N6RJ); Multi-Single: 8P9X.

Europe. All Band: YT90A (Opr. YT3AA); 21 MHz: CQ4A (Opr. CT1BOP); 7 MHz: IK5BAF; 3.7 MHz: HA8IE; Multi-Single: IQ4A.

Asia. 21 MHz: 7L1GVE; 7 MHz: JA8IXM; Multi-Single: YM5KA.

Africa. All Band: CT3BH (Opr. OH2BH); 14 MHz: EA9LZ.

South America. 28 MHz: ZP0Y (Opr. ZP5JCY); 21 MHz: P40R (Opr. K4UEE); Multi-Multi: PJ1B.

Oceania. All Band: YJ1A (Opr. OH1RY); Multi-Multi: KH0AM.

USA. Multi-Single: K1AR; Multi-Multi: N2RM.

Congratulations to these fine operators.

Comments

It should be remembered that the CQ WW multipliers are determined by the DXCC and WAE country lists. Last year after the SSB test the ARRL decided that East and West Germany count as one country, Germany. The new German country was credited before the SSB test! However, when the contest took place, there were two Germanys. When the contest begins the list is the list. I guess someday we will have to face the problem of a new country occurring during a CQ WW test.

Please take a careful look at the rules this year. After receiving letters and through conversations with hams from around the world, it has been decided to start a new low-power cat-

TROPHY WINNERS AND DONORS

Single Operator, All Band World

CT3BH (Opr. Martti Laine, OH2BH)
Donor: Dave Rosen, K2GM
WA2RAU Memorial

U.S.A.

WM5G (Opr. Jeffrey Steinman, KR0Y)
Donor: Potomac Valley Radio Club
KC8C Memorial

Carib./C.A.

FG5R (Opr. Jim Sullivan, W7EJ)
Donor: Alex M. Kasevich, VP2MM

Europe

YT90A (Opr. Tine Brajnik, YT3AA)
Donor: Potomac Valley Radio Club
W4BVV Memorial

Africa

ZD8Z (Opr. Jim Neiger, N6TJ)
Donor: Gordon Marshall, W6RR

Asia

L.V. Welikanov, RL80
Donor: Japan CQ Publishing Company Ltd.

Oceania

YJ1A (Opr. Pekka Kolehmainen, OH1RY)
Donor: Northern California DX Club

South America

HC8A (Opr. Richard Smith, N6KT)
Donor: CQ Magazine

Japan

Akira Asai, JA8RWU
Donor: Japan Crazy Contesters

World—Single Operator Assisted

Jeffrey Briggs, K1ZM
Donor: Pavillion Software

World QRP

Doug Zwiebel, KR2Q
Donor: Milliwatt Books, W0RSP

SINGLE OPERATOR, SINGLE BAND

World—28 MHz

ZP8Y (Opr. Luis Kemper, ZP5JCY)
Donor: Joel Chalmers, KG6DX

World—21 MHz

P48R (Opr. Robert Allphin, K4UEE)
Donor: Peter R.D. Munroe, WB1DQC

World—14 MHz

YV3A (Opr. Pablo Alonso, YV5IVB)
Donor: North Jersey DX Assn.
K2HLB Memorial

World—7 MHz

ZF2JR (Opr. James Rafferty, N6RJ)
Donor: Fred Laun, K3ZO
K7ZZ Memorial

World—3.7 MHz

Ferenc Deim, HABIE
Donor: Fred Capossela, K6SSS

U.S.A.—28 MHz

George A. De Montmond III, NR5M
Donor: Donald Thomas, N6DT

U.S.A.—21 MHz

Bradley Peterson, NG2X
Donor: Bill Gioia, K2EK

U.S.A.—14 MHz

John Kenny, W1RR
Donor: Southern California DX Club

U.S.A.—7 MHz

William Johnson, KV0Q
Donor: Stanley Cohen, WD8QDQ

U.S.A.—3.7 MHz

Robert Ferrero, W6RJ
Donor: Arnold Tamchin, W2HCW

Caribbean/Central America (21 MHz)

Franklin Brooker, 9Y4VU
Donor: Pedro Piza, Jr., NP4A
KP4ES Memorial

Europe—28 MHz Zone 14

DF8SSB (Opr. Hans-Joachim Burger, DF9ZP)
Donor: A.G. Anderson, GM3BCL

Japan—28 MHz

Tadao Katsuta, JH7DNO
Donor: Take Yokoyama, JL1BLW

Japan—21 MHz

Hiro Shiozawa, 7L1GVE
Donor: DX Family Foundation

MULTI-OPERATOR, SINGLE TRANSMITTER

World

IQ4A (I4AVG, I4EAT, I4EWH, I4IKW, I4IND, I4LCK, I4LEC, I4TJE, I4VEQ, I4K4UY, I4K4CZF, I4K4DCT, I4K4EWK, I4K4JSI, I4K4NPD, I4W4ANU)
Donor: Southern California DX Club
W6AM Memorial

U.S.A.

K1AR (K1AR, K1EA, KM3T, N2IC, N6BV)
Donor: Carolina DX Assn.

Europe

LZ9A (LZ2BE, LZ2CC, LZ2DF, LZ2ES, LZ2HE, LZ2II, LZ2PO, LZ2PS, LZ2TT, LZ2UA, LZ2UU, LZ2WM, LZ2XA, LZ2-E-41, LZ2-E-72)
Donor: Bob Cox, K3EST

MULTI-OPERATOR, MULTI-TRANSMITTER

World

PJ1B (WV2Y, N3ED, WA3LRO, K2EK, N7ZZ, K3EST, N4RV, KP2XZ, K28S, KT3Y, W3FHG, K1KI, NLZGP, W3DM, PJ9EE, K28B)
Donor: CQ Magazine
W1WY Memorial

U.S.A.

N2RM (N2RM, N4HY, WM2H, KZ2S, N2AA, K2TW, KQ2M, N2NT, K3UA, W2RQ)
Donor: K4VX/0 Operators

Europe

IQ3A (I3MAU, I3EVK, I3ON, I3JSS, I3QJZ, I3KVV, I3FIY, I3VHO, I3VJW, I3VRD, I3HRZ, I3FCG, I3K2BHX, I3K2NCJ, I3POR, I3K1RX, I3FLD, I3NOA, I3K3NXF, I3V3PRK, I3V3YK, I3W3WMP, I3V3ZCS, I3V3TQE, I3N3BYV)
Donor: Finnish Amateur Radio League

Japan

JL1ZCG (JO1BMV, JO1RUR, JF2IWL, JN3PYQ, JH0NZN, JH0SPE, JR0IRZ, JA9VDA, JS1INN, JQ1UXN, JI1UTP, JK3GRR, JP1OGL, JK1JEO, JR0JFM, JR5KDR)
Donor: Nippon Television Network Corp.

CONTEST EXPEDITIONS

World—Single Operator

V63DX (Opr. Shoji Igawa, JA7HMZ)
Donor: Stuart Meyer, W2GHK

World—Multi-Operator

YM5KA (HA0LC, HA0MM, HA0NNN, HA5PP, TA5B, TA5C)
Donor: The German CDXG & SDXG
(DJ3NG & DJ4EI Memorial)

CQ Special Recognition Trophy

PJ9W (OH6NU, OH6MW, OH6RM, OH6FT, OH6JW, OH5BM, OH6YF, OH6DO, OH2MM, OH5NZ, OH2BAD, OH6XY, OH3UU, OH2KK, OH1XX, OH6IG, OH3NJZ, OH1MA, OH3XA)
Donor: CQ Magazine

egory. This new category allows 100 watts out. It is hoped that this new category will encourage activity. Also note that we require a paper log from you. When you send us a disk, please don't forget to send a paper log. Most of the computer contest software forgot to include club affiliation on the cover sheet. Remember to add your club name if you want credit for your club. The new categories of assisted and low power have not yet been added to the cover sheet for this year. If you enter the assisted category, you can help us a lot by adding the word "assisted" next to your call. Please add

the letters "LP" next to your call for the low-power category.

It is with sadness that we report the passing of several famous contesters over the past year. One of our committee members, Homer, K7RA, always had a vision of what contesting could become, and his thoughtful comments and hard work will be missed by all of us. George, UA1DZ, became a Silent Key late last year. Besides being the RadioSport champion of the USSR, he was always very active in contests. Phil, K6ZM, was an inspiration to all the operators who passed through his station. We

will miss their signals on the air.

Our experts who scored and submitted the results you see on these pages are W9RE, N3ED, AD6C, K4XS, K6NA, W2RQ, K1DG, K2VV, N6AW, KR2Q, N2AA, W7EJ, K5NA, K5ZD, WA8YVR, and KE7V. A special thanks also goes to KB3MM, who helped develop software to read your disks, and I2UIY who helped with Italian data bases. Also DX members of the committee YT3AA and JE1CKA contributed information for the grading of the scores. Congratulations to all the winners.

73, Bob, K3EST/6, and Larry, N6AR/4

DX QRM

We enjoyed working many stations, especially with W's...JA5EXW. I was testing the K1EA log program for the first time in CQ WW. It was GREAT!...OH1MDR. Every contest should have Assisted category...SM3SGP. Lost my quad in storm. My first contest...PY2NY. Really good propagation on especially the South Pacific...LP3F. First contest, wonderful propagation...YV5JDP. Need a category for South America minus the Caribbean islands; it's so difficult to compete with them...OA4ZV. My last QSO in the test was my father, WR9X...AL7KS. Usually 40 meters goes to sleep; this time the operator went to sleep...KL7U. After 45 years off the air, it was a challenge to face the pile-ups from Antigua. Hope to return next year!...V2/G6QQ.

My first contest. Had a ball with my special prefix...VO7TM (Opr. VO2TM). My age is catching up. The new guys are taking over...VO6AW (Opr. VO1AW). The old Drake B-Line did it again, trouble-free...XM31Y. Still like CQ WW best of all...VE3FJX. Fun trying to get the last "thank you" with a Japanese operator; he won, 3 to 2...VE3OMU. WOW, 5W1JJ on 160...VE3DO. Good thing it rained; no noise the second night...ZF2JR. Rig problems again this year...TI2OB. Enjoyed my first contest. (Check his score listing, a super job—ed.)...XE2BEU. My great pleasure to work on 40 meters with my special call...6GQV (Opr. XE2GV). Too many parties and weddings, but got on 160 for a while at least...XE1VIC. Operating table was 25 feet from mats where a karate meet was held. Couldn't tell the difference between the yells, howls, and grunts with the headphones off or on...4U45UN.

First CQ WW DX contest. Very happy and we hope next year to have more operators with more experience...CE2GVM. Only one word—fantastic!...CN0A. Only our second contest and first with computer logging—very nice. We would really like to have the full reciprocity and full French calls, as we are residents of French Guiana. This call quite a mouthful for contesting...FY/KD3FK. Thanks, Pedro (my brother) for your fantastic antenna work...CQ4A (Opr. CT1BOP). Thanks a lot, guys! Next year I will be there again, with all my power...CT1CLR. Bad QRM, best band for me was 28 MHz. ARS since 1937. My age is 77 years old. Best 73...CT1QF. Thrilling contest. Considering the antennas I was highly surprised about the score. It takes a very long time to see the contest results...DF1IK/p. Can't compete with DF0SSB...DA2AA.

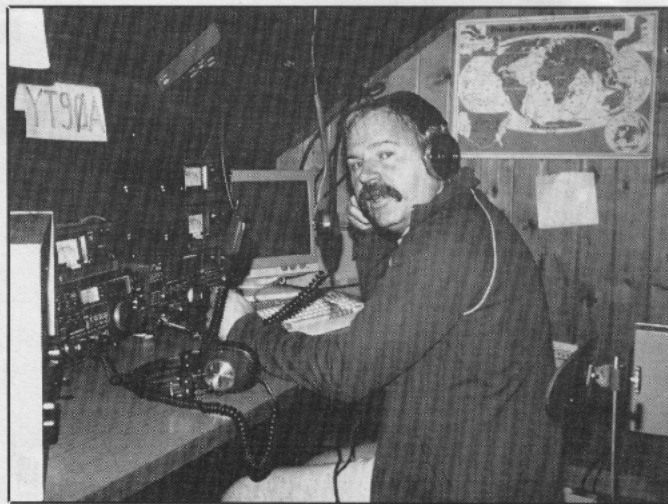
What a great contest. Using club radio station I was hunted instead of the hunter...DA2CF (Opr. VE2UJE). To all of you Merry X-mas and specially a very healthy, happy, and peaceful New Year 1991 in prosperity...DJ2UU. My power and antenna were too poor to break through the pile-up around KH0AM, KH2/N3EMA, and TY2FG, who would have been new countries for me...DJ3DE. In spite of a hoarse voice after the contest I enjoyed my 40 meter single op so much...DL3OI. Three weeks before the contest started the new 6 over 6 quad was ready for new motivation...DJ4PT. Output 12 volts from car battery; antenna was mounted with magnet on the roof of my car...DL6AM/M. I had some visitors. Therefore, no more time to work, but very good conditions on 10 meters...DJ6TK.

Always a joy, but a lot of QRM. Best contest...DL8PC. Problems with my rotator—antenna mounted on a living tree...DJ8UV/p. Started a new rig in the middle of the test and it did well...DF8WS. We had an emergency-power engine which powered the battery. It was old army stuff and smoked like a broken oven, hi. We had too much beer, too much company, no drinking water, no electric power. Great hobby...DL0SG. Good conditions on 40, 80, and 160...EA1CON. Amazing, lots of new ones to me!! Ole!!...EA1DCQ. QSL 100%...EA1IF. This is my first contest. I've been licensed for 2 months...EC2AUS. Very happy to be in contest! Many zones and good participation...EA3GCJ. Please be here in the next contest, see ya...EA3NY. Computer problems...EA4DX.

Enjoyed the contest very much, fantastic propagation and activity...F1HWW. A great contest as usual...F1JDG. Many thanks for this contest...FE1JND. I am 16 years old and this is the second WW contest. Very fine...FB1OMN. Always a pleasure. I hope to be better than last year...F2EE. Big TVI troubles with my neighbor. Next year I'll have a new location and a new antenna...F6FGZ. Very happy to QSO three BY stations during the contest...FE6FNA. First try on mono-band—fun...FF6KAW. If I'm really 59, how come so many get my call sign wrong? An honest report conveys the need to take care in transmitting information. I'm sure there were lots of incomplete QSOs. Or is it ESP?...G3JKY. This is the first contest I've entered as single op. I even managed to get rid of the family for the weekend...G3XSU.

Lost delta loop on Saturday night in high winds, if found in USSR, I'm OK in Callbook!...G4PKP. Biggest thrill—having 78 QSOs on 15 in 1 hour. Best propagation ever...G4XKR. My first SSB contest since 1980. Made more QSOs during contest than on SSB during last 10 years...GB0DX (Opr. G4BUE). DX stations should give their call sign a little more often. I enjoyed the contest as always...GJ3XZE. Some stations use up to 10.5 Kc of band and call without listening. This gives QRP stations little hope. This Shetland Islands station was called by some 300–400 high-power bad-signal stations none of which were answered. Why not monitor this contest and disqualify any bad operators for bad use of equipment, etc.?...GM0AVR. K1EA should get a medal...GM3BCL. Condx quite good except to Asia. Wish some DX stns would send their calls more frequently...GM3CFS.

Antenna was "dipole of delight"...GM4HQF. Rotator damaged in gales...GM4WEW. My first-ever entry, but much reduced score due to serious laryngitis coming on 48 hours earlier...GM4XTA. My first-ever attempt at all band single op. Wait til next year when I get it all sorted out. Best fun I've had for weeks...GM0ECO. Sorry to have missed last year's. Thanks for great contest...GM0DBW. Had to wind down tower at 4 PM local time Sunday due to strong winds...GW4BLE. First CQ WW contest I have entered. Became ill near the end. Will try again next year...GW4OFQ. Nice to work US pile-up...HB9CJG. Great con-



Here is a voice everyone has worked, Tine, YT3AA, with his special call YT90A on his way to a new European record.

test—always look forward to CQ WW contests...E14DW. Excellent condx. The CQ contests certainly bring the DX out of the woodwork. Really enjoyed myself...E19FK.

First time in this contest. Old Atlas 210 still doing a fine job...HB0DL4ZBC/P. My first contest ever...LA4PHA. Nice to be in this test again! Nissed some multipliers because it didn't make it through the pile-up. I wish I had more power...LA9DFA. My best result in CQ WW contest—one month preparation, mental, physical, technical, hi...LX9DX. Very poor condx on 10. My time was too short. Better next year...ON4ACB. Wish I worked everything I've heard—enjoyed it!...ON4APU. My first participation in this contest. It was very nice. See you in 1991...ON7RN. Hope you will soon change points so we have same rules as for CQ WW RTTY Contest...OY9JD. It's not always easy with 100 watts and dipole on 40 meters. CU AGN next year...OZ3ABE. I worked my first zone 5 (CY9CF) on 160 meters...OZ3SK.

Many thanks for another FB DX contest. Very happy to work 4U45UN and CY9CF for new countries...OZ6PI. Part time only, but I enjoyed participating...OZ7AX. First time I use K1EA log program. It's a great help. Condx the best ever...OZ7HT. Again FB! Worked DXCC within 30 hours...PA3ELD. I enjoyed the contest greatly despite a breakdown in the 21 mc dipole which resulted in no activity on that band...PA0DOM. I could only partly participate due to our national annual amateur meeting on Saturday...PA0HML. Condx good, JAs on 7 mc, fine test, hope better next year...PA0KDM. A lot of QRM on 15 and 40 meter bands but 10 was clean, so I worked some nice stations and new countries...PA0MVW. Contesting remains an enjoyable aspect of our hobby. Keep organizing them...PA0YN.

Nice contest. See you next year...PA0ZH. Thanks for the contest, CU AGN...SK3AH. My first big test ever...SM3EDF. Got my license only 6 months ago and it was very nice to work many new countries...SM3TLG. Good condx but there are many better QTHs for the contest...SM0SAJU. Sorry could only spend a few hours on the contest...SM7TV. Found the CW contest more rewarding as per QSOs with a beam up again instead of dipoles...SM0BDS. I propose two new classes: 160, 80, 40 and 20, 15, 10. This would make a station with only a triband Yagi more competitive...TF1MM. Still using a new prefix for each CQ contest. 3A90 prefix was used for first time...3A90F (Opr. 3A2LF). First try in this category. Wish propagation had been better. Will be there next year...HC0E.

We must stay in same grace of school next year on account of this contest...JA3YBF. Wish we could QRV for 48 hours...JA5ZBI. Very enjoyable contest. Our low-band antenna is not so good...JJ3YBB. Thanks again for lots of fun. Did have a good time even if 10 meters goes dead at seven and 75 never opens to anywhere but lower 48...KL7TG. Very nice to work CQ WW like in a Field Day, of course inside a mosquito cloud Hi!Hi!...L4D. Need bigger antennas...P40T. Really missed out on mults on 10 meters...V31K. First try at multi-op contesting. Had great fun and will be back next year...VE1AUE/1. Good conditions for a change...VE6AO. New location, new call sign, new group of operators—and next year better score!...VE6SV. Loved tuning the 160 antenna at 3 AM with a flashlight in the rain...VE7GFC.

Amplifier died twice the first day, then dumped the keyboard and lost 150–200 QSOs from 0001–0800 on 28th...VQ9CQ. Our pet peeve: The KL7 who refused to log us because "Sure your call is VY2CA, all VY's are in zone 2, not zone 5!" Everyone loved Prince Edward Island's new prefix. Next year bigger antennas and more efficient use of our multiplier station...VY2CA. Kicking computer for lost Q's with six power outages during test...XE2N6IC. First CQ WW with this special call. Problems on 80 and 160 meters with bad propagation and bad antennas. For next year better antennas and we will ask God for good propagation on 80 and 160...ZW0JR. It was very fine propagation on 10 meters and I got a new country (TY2FG)...JO1DFG/8. My first contest. Only 10 watts and antenna is homemade 4-element Yagi...JK6ISK.

If I had a big antenna and power...JG1BPS. What fun! I'm writing this in HB9 before being QRV from 6W1 in CQ WW CW...JA8RWU. Biggest problem was

TOP SCORES

WORLD Single Operator All Band			UNITED STATES Single Operator All Band			EUROPE Single Operator All Band		
CT3BH	14,892,102	WM5G	6,308,064	YT90A	7,120,204			
HC8A	12,199,477	K3OO	5,706,990	GW4BLE	6,329,120			
FG5R	12,192,368	K5ZD/3	4,922,856	ON4UN	5,494,159			
9Y4H	10,908,869	N4RJ	4,683,448	CQ0N	5,432,952			
KP2A	10,677,460	K1RU	4,664,400	LY3BA	5,001,768			
YJ1A	9,516,731	K3ZO	4,561,608	IA8A	4,449,648			
ZD8Z	8,852,625	W9RE	4,525,010	GM0ECO	4,254,678			
P40V	8,627,385	K8PO/1	4,129,521	EA3NY	4,192,650			
AH3C	7,999,209	W3BGN	3,959,928	OY9JD	3,963,984			
YT90A	7,120,204	N2LT	3,892,876	DL8PC	3,944,192			
28 MHz								
ZP0Y	2,961,295	NR5M	1,116,390	4N3AA	1,363,425			
PQ5C	2,658,240	W0ZV	975,175	LZ1KOZ	1,328,041			
LS6T	2,648,018	K1DG	932,696	IR9R	1,325,835			
FM5DN	1,805,089	N1G	915,399	DF0SSB	1,256,266			
CX8BBH	1,604,536	N7BG	913,674	IT9BLB	1,225,194			
4N3AA	1,363,425	KM1C	912,560	IO0MNI	1,123,981			
21 MHz								
P40R	2,719,336	NG2X	943,578	CQ4A	1,757,780			
9Y4VU	2,231,037	NB2P	685,542	YU3PV	1,127,829			
PR5T	2,096,680	K2SX/1	600,483	OM7DX	1,122,108			
CQ4A	1,757,780	N6VV	502,366	OH1AD	1,086,534			
N7DF/NH2	1,751,272	W5WMU	487,139	YT3M	1,035,045			
CE3FIP	1,726,812	KD0ZR	381,312	OH0MAM	879,712			
14 MHz								
YV3A	1,529,500	W1RR	1,028,020	G9FXB	1,423,450			
G3FXB	1,423,450	K2VV	939,624	YU1EXY	1,229,680			
EA9LZ	1,244,340	NB1H	902,275	F2EE	1,102,887			
YU1EXY	1,229,680	WO0G	734,290	YT3M	1,035,045			
F2EE	1,102,887	K2HFX	689,095	G4CNY	1,029,908			
G4CNY	1,029,908	KV4F	439,520	YU1KQ	936,320			
7 MHz								
ZF2JR	870,480	KV0Q	181,252	IK5BAF	687,040			
IK5BAF	687,040	NQ2D	146,875	DL3OI	493,626			
4M3X	622,251	W2SC/1	130,625	GB0DX	392,160			
YV5JDF	534,936	WQ2M	130,161	IG8R	263,128			
DL3OI	493,626	N4ZC	120,832	OZ4MD	204,753			
HC1HC	492,833	K8MJZ	102,368	OZ1FTE	203,574			
3.7 MHz								
HA8IE	361,343	W6RJ	105,343	HA8IE	361,343			
GW4OFO	135,590	N2KK	102,390	GW4OFO	135,590			
W6RJ	105,343	KZ3H	74,700	LY1BZG	91,368			
N2KK	102,390	W2VP	63,597	SP5MXZ	90,300			
YV1CP	96,640	AD1G	62,392	OH4BEN	56,643			
LY1BZG	91,368	KE5FI	59,486	DL8QS	54,556			
1.8 MHz								
UG6GAW	119,955	K5UR	14,152	UT5DK	26,880			
VE1ZZ	31,974	W2FCR	4,719	OM6JDX	21,774			
UT5DK	26,880	K5WXZ	1,914	UC2ABC	20,515			
OM6JDX	21,774	K4TEA	1,856	SM5AOD	19,588			
UC2ABC	20,515	K8CFU/4	1,300	OZ3SK	19,500			
OZ3SK	19,500	W2VO	1,288	CT1AOZ	16,473			
Multi-Operator Single Transmitter								
IQ4A	17,255,700	K1AR	11,193,606	IQ4A	17,255,700			
8P9X	15,388,604	N3RS	7,752,168	LZ9A	13,224,200			
YM5KA	15,056,664	KS9K	7,190,746	GU6UW	13,155,792			
EA8AGD	14,796,344	K5NA/2	6,194,342	HG5A	12,400,080			
CN0A	14,008,363	K0RF	6,124,248	OM5W	10,249,516			
LZ9A	13,234,208	K1YR	6,066,750	HG1S	9,544,185			
Multi-Operator Multi-Transmitter								
PJ1B	57,610,400	N2RM	18,146,246	IQ3A	25,214,252			
PJ9W	51,388,610	N5AU	16,736,436	R6L	14,948,868			
KH0AM	35,730,600	W3LPL	16,517,214	DA0BY	13,628,376			
IQ3A	24,875,479	W7XR	12,232,124	ON7LR	10,398,388			
5W1JJ	22,285,168	KY1H	11,468,292	YT2B	10,268,253			
N2RM	18,146,246	K8CC	9,785,580	LY2ZO	9,544,185			

splatter for nearby multi-multi club station... JA3LDH. Dipole was built on Friday night and made the contest fun for me (but why couldn't I work zone 5?)... JR4PMX/1. Many USA stations called me; thanks a lot!... JF1SEK. Worked over 900 stations for the first time... JE7DOT. Static level was very high on 80 meters... JE2LPC. Never saw such good conditions before... 7L1GVV/8. I was called on TVI on second day so could not operate fully, hi... JA6COW. I wanted to sleep at night but good conditions to Africa didn't permit... JA1YFG. Very good conditions of 10 meters... JA8YBY. I got two new countries, PJ and 9Y... JP1SRG.

Tnx for my three new countries on 15 meters... SP4EEZ. Good conditions, but not too much JAs calling me!... I2PJA. First time over 3,000 QSO in test... 4N3AA. Very interesting DX stations active... IK0DWN. It was nice contest, but I had strong problem with my neighbors for TVI!... YO6OBH. It was big fun to work 1,000 W's on 10 meters... OE2VEL. Unbelievable propagation! One new country (YS0YS) after trying many times in abt 4 hours... OH3MIG. Big condition for USA. I see them next year... IT9HBT. Got the missing zone on 10 meters at last... OE1TKW. It was really enjoyable contest. Lot of good DX active on 20 meters... YT3T. Tired? I slept my JA chances on Sunday morning... OH6NIO. My first CQ WW DX SSB contest with home call... LZ3YY.

Big fun. Many thanks to XM2ZP, WL7E, TF1MM, VK6HD, BY8AA, and KH6CF, the only stations worked from their zones... IT9GSF. It was my first WW SSB contest... SV3AQR. I think that more important is working new countries and bet better paper than last time and I get it... EA1DDU. Yeah!! BIG CONTEST... I3BQC. First in single all band because I got married a month ago, so I could say one more time "I'm a single!"... IK2GSN. Many stations on air. I'm happy to take part to yours tests... IK2IKW. Finally worked BY's for first time, herd em last year but cudn't get my beam off stateside... SV0AB. Had unexpected visit first few hours of contest by DL4NAC. It made my day!... YT90A (Opr. YT3AA). Best contest, but I lost my voice! Next year I will be on CW!... LZ1KOZ. First night was excellent on 20 meters... YU1EXY. No better contest then CQ WW DX. 73 for CQ magazine... SP5OAU.

This was my first contest "without pencil"... OH1BV. Next year, new antennas, new score!... IK8DUI. So many Finnish contesters in Curacao that OH had become rare?... OH1WZ. It's hard to make two nights up in radio, but contest is contest!... IN3ZNR. Many hams, much QRM, big pleasure... YO3DCO. I didn't lose my voice this time!!... OH3OJ. Worked KL7 20 minutes before the contest, none during. Fell out with XYL due to a newly acquired beard after 42 hours solid!! Best contest I've ever entered... ZC4BS. Murphy struck with a sore throat the day before the contest... VU2NBT (Opr. AA4U). 10 meters + popular QTH + local evening/night hours = Awesome DX!... VQ9FM (Opr. NH6UJ). Thought all the Europeans were crocodiles until I discovered my antenna was stuck in the wrong direction a day after the contest. Will be back next year and the next and the next... Never had more fun in my whole life... 9M6HF.

Thanks to Alex, 9V1XR. At his presence I could show him what contests are all about... 9V1XR (Opr. SP5DDJ). Had a great time as usual, great cndx... VK3PU. Listening to W's wrking JA's all Saturday and being able to wrk either... ZM1IM. Tnx to all for a grand contest. Aloha till next year... KH6FKG. I've followed this contest since 1988 and 1989 with my previous call, YC8RFF... YB8RB. Frustrating is the only way I can describe my first time in the CQ WW from 4X. Newly installed G5RV would not load properly. Waited until it got tight to put up my "miracle antenna"—a 31' foot random wire... AA4KD/4X. Somebody recorded me while calling CQ and then played it back. When he stopped, people started calling!!... ZS6WPX. Tnx vy much to boys in Senegal... YU5AD/6W.

Good time had. Missed a few hours at the start. Gained a few new zones and countries. Next year I will not have to look after my 2-year-old son... VK2PWS. This is a great contest when I'm Stateside and a fantastic contest when I'm DX. Tnx for another super contest... HL9RY (Opr. KG5EG). It was great fun to wrk so mni stations in my first effort in the phone contest... VU2PTT. Really enjoyed using 5 watts with some contacts, only possible via long path (with less QRM). Tnx for a very nice contest, can't wait till next year... DU1CHD/6. Only could operate about 15 hrs, but I will be back!... CU3LF. Just got the station set up at new in time for this GREAT contest. New call is VK2KS. CU next year... VK8XX/2. A complete new team joined us, so the old rats made QSOs and the Novices searched for multipliers! That's why this is a great contest... ON6NL.

We had a very good operation in the CQ WW. First major contest using our 2 element quad and it performed very well... OZ7HVI. Stormy weather as usual, but great fun... G0KPW. Best results ever... DL0WU. No rain on Guernsey for six months, then we get five days of it... GU6UW. First OK contest expedition to ITU HQ Geneva. It was big fun. We were tired but lucky... 4U1ITU. Where were all the JA's on 10 and 15? Why is it always necessary that it rains during a contest when you have to build your station? It is sure an experience and we will be there again next year... PI4COM. K1EA's Contest Program performs VFB! Very nice conditions on 10 both days. This is our best score in 20 years... HB9CIP. Gale-force winds forecast for Sunday, threatening a repeat of 1989, did not materialize... GW8GT. At last, no aurora for 48 hrs... KL7RA.

Nice pile-ups from the 140m high building in Vienna... 4U1VIC. Six hours of QRT appeared to be only handicap. Very glad to set new JA record at first try. We will be back next year... JL1ZCG. Another VE record falls... VE7ZZZ. Ambiente favoloso tra "vecchi" OMs... HB9AJM. Much better way to spend election weekend than watching political TV! Really enjoyed 1990's CQ WW. Can't wait for 1991 and a big score... ZM2K. You guys didn't print our soapbox last year, so we had to go back again! We set a new father-son record, breaking our last year's score. (Maybe we shouldn't print this again so you will go back and make a lot of people happy—ed)... FS/KC1F.

USA QRM

Heard 35 zones on 75, missed 3... W6RJ. Very little time for contest this year due

to other commitments. Bands seem to be wide open! ... *WW60*. Is there a low score award? ... *N6TPT*. Great to work XUBDX barefoot on 10 meters with antenna only 5 feet above roof! ... *NE6I*. This was my second CQ WW DX Contest. I more than quadrupled my score from last year! Anyone who doesn't work this contest is brain dead! ... *N6VMS*. Overall, the best-ever CQ WW phone conditions! ... *N6AW*. Condx were very good, and so were the computers. (*We all will miss Phil's call on the bands—ed.*) ... *K6ZM*. At 16 years old, I was more concerned with just having fun, than how many points I scored ... *KC6FZU*. Op WA2MKM collapsed a folding chair while operating—didn't miss a beat! ... *KQ2O*.

Nice to have 10 meters as biggest point getter ... *N7RO*. This was the club's first contest. We all had fun watching the neon lights modulate to our voices ... *W5KS*. First serious attempt for most of us. Great time. Looking forward to next year ... *N7QQ*. Biggest thrill was working JT1CO barefoot on a vertical ... *WA6SDM*. Very glad the woodpecker died! ... *WC6H*. Europe tough from U.S.A. west coast with low power ... *KB6RMN*. Thanks for a once-in-a-lifetime contest. CQ WW is the best! ... *KR0Y*. Search and pounce is the only way to go with 100 watts into a vertical! ... *KO9Y5*. Because of similar calls, having NI4M and NR5M in the contest makes life interesting! ... *NI5M*. Working D68GA on two bands cost lots of time, but was a great thrill ... *W5QZ*. With a couple of exceptions, the efficiency of DX operators and courtesy of U.S. ops seemed better this year ... *W5AE*.

Worked all continents in less than 21 hrs. It took 11 months to get WAC last year! ... *W9CNF4*. Over 100 countries on one band in a contest for the first time ... *N2UN*. You know it's getting too easy when you start thinking about getting a faster printer because it takes 30 minutes to print the logs ... *AB4RU*. Always have a backup rig—lost 16 hours of operation ... *WB2ULI*. First contest with new stn design, new team. Wait til next year ... *K1NG*. Five Soviet hams operated as members of our team ... *W1AF*. Our first contest where nothing broke—the only way to fly ... *W1BK*. Finally nothing broke, FB test ... *K2OWE*. Great fun. First contest ever. Will be back ... *KE2TW*. Murphy stayed away. The amplifier kept the shack warm ... *WB2JTE*. One YL has about 40 dB gain. "The YL go ahead" ... *K3YL*.

Let's all pay homage to K1EA ... *K3NZ*. Biggest Plus: K1EA. Biggest Dud: 10 meter antennas at 100 feet ... *W4PRO*. Pile-up after pile-up—WOW what a weekend! ... *W4AQL*. This was our first attempt at CQ WW. We are hooked ... *W9NQ*. Worked 7Z and XZ after looking for them for 10 years ... *NO7F*. Too many relatives and interruptions. When JA's in we had a big reunion of family and friends ... *K7ABV*. Still trying to build antenna system that works ... *K9UWA*. Glad to meet JF1SEK, JR3NZC, and KH6BZF ... *KA7FEF*. Great time. Next year will have antenna for low band ... *N7MVX*. Just starting to work on 5BDXCC, and this looked like a way to do it ... *WK7Z*. Conditions better than I had expected. Only thing missing was Eastern Europeans and Scandinavians ... *W7FP*. One-and-a-half-hour power failure one hour into contest ... *NN7L*.

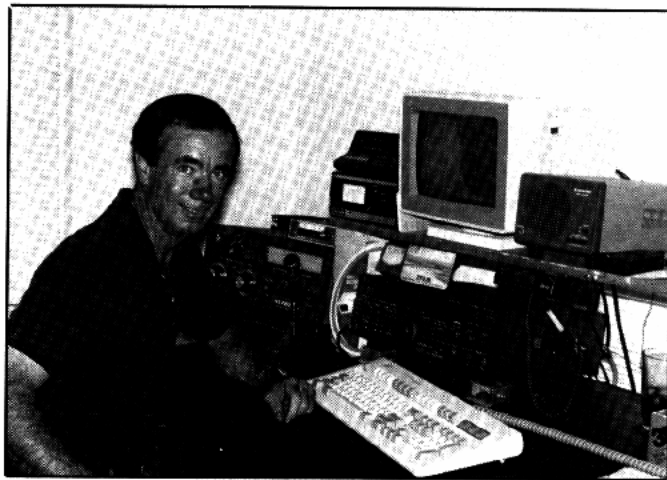
My first entry into CQ WW. Couldn't get going on 10 meters calling CQ Contest when Stateside stations called for QSO for WAS ... *W7CFL*. Down 3 dB in power and down 3 dB in antennas didn't prevent me from having a blast ... *K7LXC*. Great conditions for the contest this year ... *N7MPS*. Big problem with equipment this year—standby light in linear burned out ... *WA7FAB*. My very first SSB contest ... *K7JYE*. Band conditions good ... *W7QN*. Seemed like fewer multipliers this year ... *WG7A*. My 10-year-old son insisted on sending in this log—my first one ... *KY7H*. Tried to break pile-up to TF for 30 minutes with no luck ... *NW7Q*. Great fun. My first CQ WW and certainly not my last ... *KE7UH*. Missed VQ9CQ AND D68GA Saturday only to wake up and work both on Sunday ... *K7FD*.

Biggest thrill was working the TY station ... *WB7VUB*. K1EA program crashed and ate my log ... *K7LZJ*. My score was over a million for the first time—thanks to all the DX stations that were on ... *K7WK*. The whole event was very exciting as my first contest; been in radio one month ... *KA8UBK*. First DX contest. Can't wait till next one ... *KB8HMA*. Don't know how the real contesters do it ... *KD8EU*. Must be getting old. XYL said I looked like a zombie Sunday ... *N9CIC*. Very happy to work BY4SZ with 42 minutes left in test for a new one ... *WG8Y*. Realized I had a chance to meet my goal of 1 meg, given my modest station and fact that 98% of QSOs were hunting and pounce ... *KC8FS*. My first contest. Can't wait till next year ... *KF8IF*. Nothing broke ... *NB8XS*.

Couldn't believe I worked BY1PK then turned around and worked a 5N ... *KE8FO*. It's fun to work enough countries for DXCC in a few hours ... *NC8V*. First time I ever kept score and submitted a log. Have to admit I had a blast ... *KE8OQ*. My first contest. Was a lot of fun ... *N8MMB*. Hate having to ask for a call ... *WZ8T*. Good propagation. Sorry I couldn't work all 48 hours ... *KE8NH*. I had hoped to work the whole period, but got sicker than a dog. Still had a great time ... *N8KSO*. Enjoyed the contest and great conditions on 21 MHz ... *KF8K*. Like to say thank you all for the fun and all the nice contacts. See you next year ... *KA8VPL*. My first ever CQ WW and really enjoyed it, but next year I hope to have an amplifier so TF1DD in zone 40 will hear me ... *NW8F*. Worked 9 new countries ... *WB8MKO*.

Erected 40 and 160 dipoles Saturday during test then had to repair wind damage on Sunday. This isn't good for single op ... *K3ZJ/8*. Beat last year's score by 1.5 times ... *WD8EOL*. Fun digging out contacts in mess of kws. At age 83 don't burn the midnight oil any more. (*Always a pleasure to hear you.—ed.*) ... *W8YGR*. Had a ball this year with the good conditions. Looking forward to next year ... *WA8NDE*. Working DXCC in less than 48 hours ... *W19H*. First time I worked contest. Wished I had more time for it ... *N9IHW*. You can't lose when you're having that much fun. TNX for a great contest ... *KA9WBX*. Had my best contest. Can't wait til next year ... *KD9MF*. Last year without a computer ... *KK9L*. First time I worked over 200 contacts. Worked 10 new countries ... *KB9CRJ*.

Nothing broke for a change ... *K9QVB*. Too many stations not identifying ... *WU9D*. My first contest. Wish I had a filter for QRM from XYL ... *N4XMV/9*. Multipliers from dawn until midnight—from one end of the band to the other ... *N9AG*.



Jim, N6RJ, decided to try 40 meters from ZF2JR. He now owns the new world 40 meter SSB record.

Station that said I was loudest station on band, I was barefoot ... *WD9DYR*. Used my new voicebox ... *WD9GGY*. Ten meter contest are always terminated by the Chicago Bears football games ... *K9MDO*. Had a good time. Wish I could spend more time at it ... *NI9C*. Too much machine operation ... *W9GIL*. Beam went bad after 12 hours. Finished with dipole ... *K9CLO*. Fortunately my neighbor waited til 15 minutes before end of test to tell me I had been wiping out his TV all weekend ... *KK9L*. Low power and low antenna make for low score still had most fun in years ... *N9RO*.

Thanks to KD8PQ and WS8Q for all the antenna help that made it possible ... *W0CG*. The JA pile-up working the station in ND and one op asking if he was an expedition ... *KA0ZPP*. More than doubling my country count ... *KA0ZIA*. Never enjoyed a contest so much—thanks to band conditions and K1EA software ... *W0YA*. Have been working CQ WW since 1976 and love it more each year ... *WA0DCB*. Catching CE and HC on first call for two new ones ... *N0LYK*. ST2SA called me. First CQ WW and should have done better ... *K4VX/0* (*Opr. WX9E*). I'll be back next year for serious try ... *KA0KHE*. Computers don't like special calls any more than humans do ... *WB0YWO*. BY1QH and UJ8JCO and about 95 percent of all calls were from my CQ ... *W0ACT*. Awesome contest ... *KA3DRR/0*.

Best effort yet and still got two good night's sleep ... *WK0F*. Really glad to hear a lot of stations on this year. Hope they continue ... *K9BQL*. First contest ... *N0HCH*. While running JA's 9L1US called me on 10 meters for a new one ... *KA0ZFX*. Smoked linear and limited time equal low score ... *KM0L*. Happiness is beating last year's score by 400 Q's and 146K ... *KD0ZR*. I just couldn't find a frequency to call CQ! ... *K1VR*. Got computer two days before the contest. Loved it! ... *K3ND*. After years of meaningless 59 signal reports, decided to give out meaningless 57 signal reports. Fun screwing up all those computers that assume a 59 report! ... *K8MR*. What a great way to learn the controls on a new radio ... *K9OSH*. Used CT program and packet for the first time—WOW! ... *KB8FJ*.

Would have broken million but some unwanted RF in the shack late Sunday morning wiped out about 100K ... *KF2U*. Used CT and packet for first time & had a ball. Tnx to K1EA ... *K13L/5*. This was my first contest attempt. Worked 28 new DX countries ... *K15GX*. Ham radio is like golf—you don't have to be good to enjoy it ... *K16PG*. Was going to multi-op with XYL but she got busy so ended up running single op with her call ... *N0IDR/5* (*Opr. W0VX*). My first CQ WW ... I'm hooked ... *N4GVF*. PJ9W was everywhere ... *N4XMX*. The CT software takes the drudgery out of keeping the log ... *N6ST*. XYL didn't let me know of neighbor's TVI problem until after test—that's love ... *N7IRR*. Operating this contest barefoot with a dipole is an experience in being ignored ... *N7KZN*. My first try with packet. Lots more mults available ... *NB8JQ*.

My biggest score and I even slept 8 hours a night and watched softball Sunday afternoon! ... *NE9U*. Packet + Computer logging + Superb conditions = One great contest ... *W2GD*. Hats off to the YCCC Packetcluster ... *W2HG*. Too bad I had to paint the garage on Sunday ... *W4ACTC*. Simply incredible! Nothing broke and the neighbors waited until after the contest to complain ... *WB2K*. Power outage spoiled my Saturday AM run—reset the electronic alarm clock ... *WE9R*. Doubled last year's score using CT for first time. Wow! Throw away the pencils ... *WG2E*. What other hobby marries all of man's obsessions? Now I can play on the computer, contest, chase DX, and watch packet all at once! ... *WK6V*. Working CY9CF on 40 meters with only 110 watts for a brand spanking "new one" ... *WM2D*. This was my first contest ... *WV9Q*.

STATION OPERATORS Multi-Op Single Transmitter

4D1P: DU1CEY, DU1DDP, DU1EGA, DU1E1B, DU1ELB, DU1ELI, DU1EUV, DU1FMG, DU1MSD, DU1NGE.
4N4U: YU4ENS, YU4NS, YU4RS-4000, Dado, Danny. 4N7M: A, Bob, Gaby, Zoran. 4U1ITU: OK3JW, OK3LZ, OK3PC. 4U45UN: JA6TIT, K2GM, NA2K, W6ISQ. 4Z7M: 4X10M, 4X4YM, 4Z4KM, 4X6MI, 4X6UT, 4X6ZI. 5B30ES: 5B4WN, 5B4WS, 5B4XF, 5B4XN, Charalambides, Georgiou. 6D2X:

BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSO's/Zones/Countries on each band.

WORLD TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
CT3BH	136/11/43	371/20/64	686/29/82	1877/38/115	2212/35/118	1895/33/109
HC8A	52/8/13	311/21/61	586/22/74	1180/33/99	1638/31/102	3120/28/111
FG5R	100/8/18	430/20/69	721/26/89	1055/31/99	1624/35/121	3076/34/114
9Y4H	183/11/26	426/23/70	852/26/83	1154/31/95	1060/30/73	2603/29/87
KP2A	145/11/28	394/15/60	570/23/75	1190/26/95	1086/33/102	3837/33/113
YJ1A	11/4/6	162/22/31	710/32/76	1385/36/95	1546/33/87	2601/33/85
ZD8Z	7/5/7	101/21/37	301/29/77	795/36/107	1316/35/124	2132/38/129
P40V	33/6/13	123/8/15	592/19/61	1968/28/85	1135/30/67	2651/29/92
AH3C	54/12/16	329/18/27	480/29/59	786/37/89	1305/32/82	2500/30/73
YT90A	84/8/26	128/13/54	516/30/82	880/31/99	1032/36/102	1603/36/103

USA TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
WIM5G	15/7/11	67/18/43	127/25/72	897/36/129	427/37/124	1733/36/134
K300	21/7/15	129/15/53	105/20/62	992/36/115	624/36/110	1333/34/118
K5ZD/3	20/8/13	73/14/42	179/22/78	656/35/119	753/34/121	988/33/120
N4RJ	18/7/16	77/15/52	80/17/59	540/36/106	508/36/115	1420/34/123
K1RU	13/7/7	100/13/48	116/20/62	552/36/108	730/33/106	1216/34/124
K3Z0	14/6/6	118/18/54	112/22/67	716/33/91	575/34/91	1258/36/110
W9RE	26/11/18	68/16/45	108/24/71	566/37/113	713/32/114	1002/35/119
K8PO/1	13/7/10	156/16/53	66/18/39	634/37/112	747/32/96	986/30/111
W3BG6	25/9/18	108/14/52	100/20/54	560/30/91	632/36/106	967/31/106
N2LT	12/7/10	70/12/36	99/21/64	486/31/100	609/33/96	1117/33/116

WORLD TOP MULTI-OPERATOR, SINGLE TRANSMITTER

Station	160	80	40	20	15	10
IQ4A	56/11/56	108/22/75	768/34/112	2188/39/166	1822/39/153	2311/38/155
8P9X	86/11/27	334/17/56	817/29/103	1544/34/122	2715/37/140	2230/37/135
YM5KA	75/8/34	144/15/63	744/27/92	1376/38/119	1509/37/114	3761/39/126
EABAGD	16/5/17	135/15/60	493/25/82	2062/35/127	1597/32/129	2901/35/130
CH9A	29/7/29	47/9/46	397/21/70	2111/36/122	2181/33/125	2369/33/116
6D2X	17/9/15	79/15/38	760/31/88	2179/35/120	1624/36/124	3510/34/122

USA TOP MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
K1AR	32/12/30	197/18/76	154/26/95	1370/39/167	1167/38/165	1517/37/170
N3RS	21/10/20	114/18/69	215/26/92	1204/39/158	766/37/144	1046/37/154
K59K	27/12/25	63/26/60	168/31/97	653/38/152	1229/36/158	893/35/160
K5NA/2	28/13/25	121/18/70	122/24/85	1000/38/145	598/37/152	846/36/160
K0RF	23/11/21	76/25/60	318/27/79	460/38/126	791/36/130	1349/34/140
K1YR	16/8/15	70/16/56	107/26/78	733/37/146	807/36/144	1088/37/151

WORLD TOP MULTI-OPERATOR, MULTI-TRANSMITTER

Station	160	80	40	20	15	10
PJ1B	531/19/50	1335/24/99	2104/31/117	4860/38/179	5395/38/176	5430/39/182
PJ9W	377/15/46	1275/22/88	2275/30/123	4925/37/159	5329/38/166	4959/37/149
KH0AM	4/3/4	679/27/54	1935/34/95	3501/39/142	5279/39/131	4911/37/139
IQ3A	305/10/55	935/24/85	1945/37/126	2937/39/166	2707/38/139	3010/38/151
5W1JJ	35/8/11	476/21/36	1203/31/76	2145/39/121	4158/37/132	3473/37/115
N2RM	80/13/26	531/19/82	466/24/95	2216/40/170	2082/39/172	1046/36/171

USA TOP MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
N2RM	80/13/26	531/19/82	466/24/95	2216/40/170	2082/39/172	1046/36/171
N5AU	53/12/27	192/27/73	583/30/94	1793/40/152	2211/39/167	1916/39/168
W3PL	92/16/37	483/21/83	545/28/102	1779/39/164	1821/39/157	1857/36/160
W7XR	95/11/14	307/26/60	663/32/91	1509/39/158	1882/39/151	1229/38/131
KY1H	133/14/28	445/17/75	338/26/90	1321/40/158	1797/40/164	1023/38/159
N04I	89/11/27	112/24/59	198/26/88	1235/39/150	1401/37/150	1367/36/148

AASVC, K5TSD, K05GY, K15G0, N5KEV, N5NYK, NA5C, XE2NU, XE2YNE, XE2YNS, W5VX. 612A: XE2AF, XE2AO, XE2CRT, XE2DRM, XE2FU, XE2IR, XE2KB, XE2LV, XE2TX. 8P9X: K3KG, K3ZR, K4FJ, W4NL. AA1K & K3WJ, K03UC, N8NA, AA4LH & N4NDL, WA4NAT. AA6TD & N6ST. AA9A & K89XG, WAGSRW, W89SAU, WJ9W. AB4RU & AA4GA. AC8N & K8UCN, K8BGGT, K8BKSU, K8F8R.

AG6D & KJ6L, N1EE, N6BIS. BY1PK, BZ1A, BZ1AL, BZ1AL, BZ1DX, BZ1HAM. BY1QH: Chin, Huntgr. Jan. BY3CC: KU6T, Fu Hao, Li Zhao, Sun Hong-Qi, Tian Hai-Ping, Wang Y., Zhang Jie. BY4AA: BZ4AA, BZ4AYL, BZ4CBC, BZ4COP, BZ4CPU, BZ4DAB, BZ4DDL, DJ7BU. BY4RSA: BZ4RA, BZ4RBC, BZ4RC, BZ4RDX, BZ4ROM. BY4SZ: BZ4SAA, BZ4SAB, BZ4SBC, BZ4SDB, BZ4SGB, BZ4SGB, BZ4SGB. C9QL: W6KG, W6GL. CE2AA: CE2EPB, CE2FME, CE2FTF, CE2GVO, CE2HI, CE2HKK, CE2LZN, CE2MH, CE2NHV, CE2NHW, CE2NU, CE2W0, CE2BVS, CE2EMZ, CE2GVW, CE2BFR, CE2GLR, CE2OXG. CN8A: CN8AR, CN8GI, CN8LU, CN8MK, F1L8L, F1NY0, F2CW, F6AT0, F6EEM, F6FYP, F6GKQ, F6IM5, CR3M: CT3BD, CT3BM, CT3DL, CT3DZ. CZ7SZ: VE7CO, VE7ON, VE7SZ. DABFDX: Club. DA1RF: DA2BA, DA2Q0, DA2QX, DA2RZ, DA2VA, DC7OU, DJ0HO, DL7UR, DL/F11KW. DFBAT: DF6VO, DJ8CR, DL4YA0, DL9NC.

DF0PK: DL2ECU, DL3EBM, DL5J0. DFRN: DK1IT, DL3YJ. DFRR: DH7AEI, DL7AEN, DL7AKC, DL7ALM, DL7APU, DL7ON, DL7SI. DK0IN: DA2JV, DL4DAW, DL4FBU, DL4FBW, DL4Z9G. DK0KX: DF9VJ, DF9VV, DF9XV, DJ8CG, DL4QE, Y24CD, Y62SD, DL1DAS & DK4D0. DL0ER: DF2EY, DK7FP, DK8JL, DL1EFD, DL5EA. DL8JU: DL7ANR, DL7ANW, Y28FO, Y37J0, Y46T0. DL8OH & DF4R, DK6ND, DL3NCI. DL8TD: DF1FJ, DG8FGA, DHSIAE, DL2ZBN, DL3FCE, DL5ZBI, DL8AAM, DL8AAU, DL80BC, Y41FL. DL8HW: DF2IC, DF4ZK, DF6IH, DF7IT. DL8UW: DJ4AX, DK4PT, DK5EZ, DL3EBX, DL4BE. DU3/N2HEV & DU3/KAL0LN, DU3/K8FUE. DX1L: DU1EUI, DU1J0H, DU1TH, DX1LUST. EA2BRK & EA2BSJ, EA2CFZ, EA2CGA, EA2ADR. EA3CUQ & EA3EBN, EA3FBJ, EC3CWX. EA3RKO: EA3FHP, EA3FZO, EA3G6H, EA3GDH.

EA6ARM: EA6AAY, EA6KZ, EA6MQ, EA6MR, EA6MS, EA6WA, EA6YP. EA6FB: EA3ADW, EA3CCN, EA3ZED, EA3X0, EA6FO, EA6PZ, EA6QB, EA6TG, EC6PJ. EA8AGD: OH1BE, OH1HE, OH1NO, OH1EE, OH8PF. ED1DD: EA1AGE, EA1AX, EA1BK, EA1DC, EA1EGZ, EA1MC. ED1SML: EA1EVO, EA1EVR, EA1EVS, EC1CXP. ED3IN: EA3CCI, EA3CUC, EA3DMN, EA3GEO, EA3IN. ED3MM: EA3CAC, EA3PFR, EA3G6V, EA3G6F, EA3G6M, EA3G6P, EA3G6Q, EC3CTU, EC3CUP, EC3CVD. ED3DD: EA3BOA, EA3BOX, EA3DGO, EA3EIO. ED5TD: EA4KR, EA5BA, EC7DMU, EA7LL, EA9E, EA5TD. ED5WS: EA5EVC, EA5FYT, EA5WX. E17M: E13PD, E14BZ, E15FT, E16BT, E17DNB, E17Q0, E17DPB.

F6BGC & F6BNH, F6HYE, F6IC0, F6IRF, H89AM0. F6HLC & F6BSJ, F6EYP, F6EZV, F61HQ, F61PW. Club. F61PBT: F61PFP, F61PGP, F61PXT, F61M0N. F6FKRC: F6GLH, F6GLI, F6GYT, F61LH, F61LT. F6KTF: F61MYT, F61OHW. F6GRSM: F6BLM, F6IUI. F6BAA: F60IGS, F65DB, F65IW, F65LQ, K8JRK, N6VO. FY/K03FK & FY/N40DX. G3NAS & G3NLY. G6RKP: G4BAM, G4FSG, G4PIQ, G4VMM, G4WFR, G7AB0. G4JVG, G4MSYOR, G6U0J, 5B4LP, 5B4MF. G6WGT: G3OAY, G4BIK, G3ZAY, G4BU0, G4DQW, G4DSE, G4J3G, G4MSYOR, G6U0J, 5B4LP, 5B4MF. G6WGT: G3OAY, G4BIK, G4VXE, G6WMAW, G6W3KYA, G6W3NWS, G6W4JQ, G6W4LX0, G6W4TTJ, G6W5NF. G6X0BS: G6M2M, G6KYM, G1MLK, G4JYE, G4SEA. HA8BCK: HA8FM, HA8FT, HA8FW, HA8KK.

H80/H89A0N: DF1JC, DJ2YE, DL1EJ, DL6EA0, DL8EA0. H89GT: H89BT, H89CM, H89CO, H89C0B, H89AFI, H89AYX, H89B8L, H89CAT, H89CCT, H89CXZ, H89D0D, H89SFD, H89STL, H89Y0C. H89E: HC1BI, HC1DD, HC1GZ, HC1H, HC1HN, HC1HT, HC1JQ, HC1PS, HC1RF. H61S: HA1AH, HA1DAC, HA1DAE, HA1SV, HA1TD, HA1TJ, HA1TW. H65A: HA5AWH, HA5BNL, HA5FM, HA5FG, HA5IV, HA1DL, HA5MK, HA5ML, HA5OM, HA5UA, HA5VE, HA6VW, HA7RY. H66N: HA6ND, HA6NF, HA6NQ, HA6NY, HA6NO, HA6OQ, HA6PN, HA6PX. I46AD & I4AUM, I4GAS, I4VOS. IC8SD & I5WFT, IC8BNK, IC8BWI, IC8WIC, I8LFS. IK1LBO & I1HJT. I1X0I, I1AIF, I1KHJR, I1K1ZE, I1K1NAG, I1K1NEZ, I1K1OUJ, I1K1OUK, I1-1666/GE. I04A: I4AVG, I4EAT, I4EWH, I4IKW, I4IND, I4LCK, I4LEC, I4TJE, I4VEQ, I4K4UY, I4K4ZF, I4K4DCT, I4K4EWH, I4K4SI, I4K4NP, I4W4AN. IY2A: I1J0J, I2M0P, I2UYI, I2YSB, I1K16P.

J1Y1XK: JA1RPK, JA40WG, JH9JFH, JL1STM, J01VVT, J01VNM. JA2YDC: S. Hirooka, Kimata, Moroto, Sakakibara, Torai. UNO. JA2YKA: JF2PZH, JZ2CKV, JK1GRI, JK2CZL, JK2ZRA, JM2FP, JN2SGJ, JR0IRB. JA3YBF: JE1TND, JFAFUV, JG4CLV, JZ2CIA, JZ3IMX, JZ3KGS, JZ3VUS. JA3YDQ: JA3BCG, JS3FYR. JA3Y0I: Kakuta, Kita, Myomoto, Tamura. JA3Y0D: J66MYI, JF0MLM, J03JYE, J03SEN. JA5ZBI: JG4DDN, JG30CP, Tsunoda. JAYCL: J66EKC, J66UWK, JF4CZL, J66RWS, J66MYI, J66XNC. JA6YJS: JF4ETK, JG4SVN, JQ3BAM, JS1PWW. JAT7AA: J66AWL, J66CSW, J66ZHL, JH00R: J66CNL. JAT7AL: J66NKK, JH7VXM, JRT7RW, M. Ohkido. J8YAY: J89FNN, J89-3017. J8YAK: J66DUA, J67JMO, JH0YVG, JH9P0U, J70ED, JK2PVL, JR0VDM, JR0FOM, JR0HTY, JR0JW, JR9EMM, JR0KPO, JS1PTU.

JABYMU: JA8N00, JR0GJX. JABYPB: JA0NFP, JH00BL, JABZJR: JP1NOM, JR0B0D, JR0TGT, JZ2YRD, JA2EZO, JA2KVO, JF2E0C, JF2XJE, JH10RL, JH2BNL, JH4RHF, JI2KVM, JI3GAD, JR2C0J, JA9-10148. JEGZIH: JF1DMS, JF6DEA, JG6CVO, JG6GNN, JG6GFE, JG6GZC, JH5GLL, JI6BRR, JR2GKT, NARMI. JH1YDT: JH0VMJ, J01DL, 7K1BWM. JH1YHS: JF1MIA, JM1NKT, JR7GGO. JJ3YB: JA3AHL, JA3CZY, JA3FHI, JA3HI, JA3PJ, JA3PJL, JH3F0F, JH3LLV, JH3UHG, Koyama. JL1Y0E: JH8WJY, JI1CMZ, JT1T: JT1BX, JT1-183. K0BJ & K0FM. K0CS & K0BU, N8DVG, W8TN, W0U0. K0GAS & K0J0, W800W, K0RF & K0RF, W0UN, W0UA, W1ZG, K1AR & K1EA, KM3T, N2IC, N6BV, K1NG & K1IG, WA1S, WD1N, WF1B. K1SSN & K1WCG, KA1WGF, KA9WHZ, KC4SLZ, KD3HN, W6BJM, W6EZO, WD5CFX. K1YR & K61WY, KC1SL, WA1U, WJ1U. K20WE & W2GSM. K2S6 & N2EA. K2TR & N1CC, K2WR, K2XA, WA2SPL, W82KM. K3ANS & AJ3H, K3YD, KJ3K, NU3L, W3TB. K3DI & K3BH, W3ICM, WD4IEH. K3IV0: K3H0I, K3YDX, KA3BHP, KA3SCY, KA4RHS, N2GAR, N3CJ, NN30, W3IF, WA3KZ, WA3TD, W83EVS, W83H0L, WA7NTF, W86VGI. K3NZ & KA3MND, KU3X. K3YL & K3OX, K3A. K5NA/2 & K2U0, KY2J, N2EK, N2GOS, W82Q. K5BDA & W5PWG, W5EP. K5QHD: K5JC, K5YN, N5QLO, W5TGP. K6BR & K6KLY, WC6I. K6SSS & Kate, Thomas. K7ABV & K7LGV. K80UA & K8BFLY, W8JRC. K9MA & W9IX, K9UWA & K9VFE, KA9A, KC9LA, KE9AG, KR9U, KR9V, W9D9GA. KA8B80 & KA8BAT, K8B0D, N80LD, N80CG, W80YJ. KA16G & K1KJT, N1AVA, N1HBF, N1ZE, W1KM. KA1X & AK1I, KA1FEY, WB1H.

K3PIT & ABZE, KC3NE, NU3Y, W83X. K8BKK & A2EA, K6Y0, KM0R, W0HBH, W0DCHW, W0DFPY, W0D0DK, W0F0. K81H & K1GH, KA1LMN, KA1NUJ, KA2CIV, K02SX, K1TU, WA1HYN, WA10EH, WA1RL, K87IMC & N1LGT. K89EC & N9IFM. K8CLX & K8QNS. K8X1 & KR1T. K8SQ & KA8YNN, Jim, Buff. KE2TW & N2LCT, WR2I. KE6WL & K6NT. KE2UZ & KE2VI. K65VY & N500D. K6R8S: K6GSS, K16G, AH6KI, K16EZ. KLT7G & N7RE. KN4PE & KC4AF, KM4ON, WB4NXX. KR8B & A9FJ, K0II, K0JL, K0JB, K0ST, N0BIL, N0BKL, W0JM. K9JK & K9CJL, K9GS, N9AU, N9GN, N9G0K, KP2A, N9BC, N9U, N9QI, N9OF, N9RN, W9V0, KZ0C & K0HY. KZ1M & K81RI, WJ1P. L4D: LU1EYW, LU5EEK, LU7ADN, LU7DW, LU9EWD. LA1H: LA2MV, LASNM, LA6DA, LA6VA.

LA1K: LA1BEA, LA1BFA, LA2RY, LA3BHA, LA40FA, LA4UEA, LA6MG, LA6PA, LA7VV, LA8RG, LA8UGA, LA91Y, LA9PU. LA2AB: LA8SDA, LA9EEA, LA9SEA. LA2T: LA2AD, LA2FA, LA8NC. LY1BK: Yukna, Tautydas, Freyus, Okas, Yukna. LY2WV: LY2BJ, LY2BK, LY2BM, Barusevicius. LY1KPT: Club. LZ6W: LZ3DX, LZ2F20, Hubenov. LZ9A: LZ2BE, LZ2CC, LZ2DF, LZ2ES, LZ2HE, LZ2II, LZ2PD, LZ2PS, LZ2TT, LZ2UA, LZ2UW, LZ2WM, LZ2XA, LZ2E-41. LZ2-E72. N2NU & G4FRE, K2W1, WA2D, N2SS & W2GMA. N3HW & N3RW. N3RS & N3RD, N3B3, N3Z0. N4AA & AB4ZL, KN4HW. NAUMI & KC4FJX, KC4GK, N4XCV, W83A. N6TY & N3AHA. N7JTS & WA7CYP. NA3K & K3IE, NM3W. N86NG & AA8AW, AA8ZE, KA8JZV, K80LC, N8HHB, VE3KRP, VE3MOE. N8LS & N80S.

N8CP & K0AM, W80THC, W00V, W80G. N8FS & KF6V0. N2JL & KR1S. N9JC & N40KX, W84ZF0. N9J2 & K89F, D. NKTU & K87JWM, K6BFL, KH6W, N7GPO, N7I. N7LTD & AL7KT. NN30 & KB3W. N07F & KF7DQ, K67K0, NUPP & K0AL, K0JGH, N0CI, N8BH, N8CO, N8V0, WA0FYG, W83ZRL, W60M. N82K & W82A0. OE368 & OE3GEA, OE5VLB. OE3XCW: OE3MDO, OE3PUW. O67NTM: OH7BNK, OH7MHL, OH7PI, OH7VW. OH1MCK: Club. OH2BR & UA10K, UA1D0. OH4AB: OH4EA, OH4MDY, OH4SE, OH4TY, OH4YR. OH4YC & OH4JK, OH4MI, OH4NZI, OH4ZS. OK1K0U: OK1APP, OK1BY, OK1DLE, OK1CM, OK1IMR. OK1ORA: Club. OK2KET: Club. OK2KUJ: Club. OK2KD: OK2BDI, OK2B8M, OK2WAZ. OK2KV: Club.

OK2KYC: Club. OK2RAB: OK2HBY, OK2PDK, OK2PEM. OK2K0U: Club. OK5SML: Club. OK7ZJ: Club. ONSW: OK1AEZ, OK1CF, OK1JJB, OK1JKT, OK1TA, OK1TN, OK1WT, OK2FD, OK2HBY, OK2PDK. ONAKRW & ONSEU. ON6AH & ON5AV, ON5JO, ON6MH, ON6GR, ON6VL, ON7CP, ON9CMB. ON6NL & ON1AZY, ON1ANK, ON1AUE, ON1AWS, ON1AYW, ON1BCA, ON1CFQ, ON1AEK, ON1AKL, ON1ASL, ON1JZ, ON6MP, OR5BEP, ON16680, ON1480L, ON14638, Jaccous. ON7UN & ON1CGX, ON5H0, ON6SK, ON7YU, ON1741. VP8EC: DF3TJ, ON5GA, ON8BK. OZ1ADL & OZ1XJ, OZ6VW. OZ4HAM & OZ2JZ. OZ7HVI: OZ1AXG, OZ1HDF, OZ1JRF, OZ1KGS, OZ1TV. P4SD: K4PI, W3BXT, W4XG. P1ACDM: PAD3MH, PA3ERC, PA3EWP. P19ICR: N57RU, PA3EWM, PA3EVL. P5PJ & P5MCB, P5Y2Y, P5Y3F. P7TF: P7TAQ, P7TLB, P7TBZ, P7TNK, P7TSY, P7TVB, P7TWA, P7TWZ.

RB4EXN: Vailo, Pervyj, Krivoruchko. RB4IWM: Nikituk, Pood, Izvek0v. RB4IYJ: UB5-073-3972, UB5-073-4364, UB5IAN. RL0L: UW9AR, UL7LE, UL7LE, UL7-026-177, ex-RA6XA. R90W: U02-037-116, U02-037-83, Y2LAG, 3W3RR. RT1U: UT4UZ, UT5UGR, UT3UA, UA9C8S, UV9CP, UT3UZ, UB5CGN, UT4UX, UL8GBK. RW4LYL: UA4LU, UA4LY, UA4LYD, UA4LCH, UA4LFN, UA4

SM0TQX. SK3LH: SM20DB, SM3JLA, SM3PZG, SM3RJJ. SK5SE: SM5PAX, SM5SPK, SM5SYO. SM5TNF, SM5TNL, SM5TQC, SM5TQL, SM5TST. SK5WB: SM5BCO, SM5INC, SM5NUZ, SM5NWJ, SM5PPS. SL0CB: SM4QSR, SM5NZY, SM7TFS. SM8SNI & SM5KWS.

SP1PBW: SP1AMU, SP1BZZ, SP1MVZ. SP3KVE: SP3UOA, SP3UOC, SP3UOD. SP3PLD: SP3IBM, SP3SBB. SP3ZAT: Club. SP4KTO: Club. SP9ZHR: Club. T30F: OH6ZS, OH8NFR. T60AA: TG9AJR, TG9CXM, TG9GI. TMOE: Club. TMSA: F6CWN, F6GWW, F6HMC, F6IFR. UB4MWW: UB5BMB, UB5MRE, UB5MVR, UB5MVK, UB4MLP, UB4MLD, UB5-059-61. UB4QWW: RB5QW, RB5QRD, RB5QRW, UB1MM, UB0QO, UB5-064-866. UB4VWW: Samulyak, Panas. UB4WZA: UB5WCV, UB5WCX, UB5WGR, UB5XE, UB5WAD, UB5-4468-996, UB5-068-997. UB4XWK: Club. UB4IWI: Club. UC21WF: UC2XW, UC2-006-27, UC2WY. UF7FWM: UF6FM, UF6AW, UF6FJD. UF7DWW: Pavluhenko, Leonovich, Kurski. UF7YWA: UB5IOK, RB5IJ, RB5II, UB5IIL, UF6FBZ, UB5-073-1151, UB5IKW, UB3IDV.

UL8LWA: UL7LEN, UL7LER, UL7-026-587, RL7LFW. U040XU: U050OC, U05-039-537. U00A: YL2KL, YL2GM, YL3GN, U02GID, U02GTW. UT4JWB: Wodensky, Visich, Beilkov. UW2F: UA2FF, UA2FJ, UA2FM, UA2FX, UA2FZ. UZ1AWQ: Timofeev, Onischenko, Doeszenkov. UZ1TWC: UA11AN, UA1TFG, UA1-144-1068. UZ2FWN: Club. UZ3AWR: UV3AEV, UA3ABJ, UA3-170-1169. UZ3DWZ: RA3DRA, UA3DNR, UA3-142-291. UZ3DXS: Titov, Muchin, Secal. UZ3DYU: Club. UZ3DZD: RV3DA, UA3-142-1896. UZ3DYM: UA3GMM, RV3GJ, RA3GDU, UA3GCH, RA3GAX, RA3GCJ. UZ3OYA: UA3-121-1644, UA3-121-2158. UZ4AYT: Club. UZ4HXK: UA4HVX, UA4HOX, Syamrikov. UZ4PWW: RA4PO, UA4-094-976, UA4-094-705, UA4PBZ. UZ5LWB: RA6LW, UV6LMK.

UZ6LWL: RW6LB, RA6LNG, UA6-150-1360, Levakin. UZ9FZD: Izergin, Arsenkov. UZ9QWA: UA9QA, UW9QA, UW9QR, UA9QGX, UA9RQ. UZ9XWV: UA9-090-1053, UA9-090-1088. UZ0BCD: UA0CR, UA0CID, UA0-110-775. UZ0LWQ: Club. UZ0QWZ: UA0QFR, Orlov, Chikachev, Sherstukov. UZ0SXF: UW0SN, UA0-124-494, UA0-124-44. UZ0VWL: Golubev, Doronin, Chernopilisikiy. V31K: K5GA, W5ASP, W5N. V63BD: VE3RMM, VE3SMA. V73AZ: V73AS, V73AT, V73BN. VE1AUE/1 & VE1BAN, VE1JON, VE5FX & VE5GX, VE5MX, VE5RJR, VE5SWR. VE6AO: VE6AMR, VE6BSA, VE6CG, VE6GLR, VE6KC, VE6KZ, VE6LB, VE6LP, VE6TFM, VE6UUG. VE6SV & VE6AKY, VE6BOS, VE6GAS, VE6VY. VE6GFC & VE7GFS. VK2BUV & JM1CAX, VK2FUL. VK3VT & VK3BMV. VK3CHR, VK3CRA, VK6MCV, VK3MZ, VK3MZ, VK3VR.

VP2V/N6LL & N6DLU. VP9AD & N8ET, W3MA. VQ9CQ & VQ9HW. VY2CA: VY2AC, VY2AZ, VY2BM, VY2DM, VY2RB, VY2UA, VY2VN, VY2ZV, Linda. W0CP & WY8J. W0RA & K5LVP, W0TVNF. W1AF: K3UOC, K1SW, K1SY, K1WY, K14PR, K010, N1R, N21W, WD1Y, UA1ABR, UA1AIU, UA1ALZ, UA1CFL, UV1AA. W1BK & WA1UAR. W1FY: G4DZC, KA1USL, KA1UUD, N1BRM, N1DLW, N1HSE. W1GIH & NK1Z. W1K00 & K1WGH, KD1R, N1HRD, N1HRP, N1IAG, NV1Y, W1CTM, WA1SVR, WB2JSJ. WE1E. W2HPF & KB2SG. W2UI & N3KR. W3KWH: K3RYA, N3EOP. W3XU & N3FDL, NW3Y. WA4QL: K8DI, K4JAY, N4VMD, N9HZD, WD4DWM. W4MYA & K4BAM, K4GHY, K4D1, K4XS, N4LSP, W4DR, W4APGM, W4BYV, W4Y, WU4G, VICKY. W4NC & KB2FEX, KB4WJA, K4HEN, KF4ZS, KI4TB, KJ4IC, N1DRI, N4UGS, N4VHK, WA4IAM.

W4PRO & AA4NG, KB4WYR, K8DR, N4PUV, N4RKO, WA4BRL, WA4OHX, WB8HDD. W5WX: KA5VOZ, WA4NXI, WB5EUC, WD5BWR, WZ5C. W60AT & N6BT. W6DHS & K6GOM, W6XB, W0ZZ. W6YX: KA4OYF, KJ2B, KX6E, N5PEE, N6BDE, N6UOK, N6VYT, N6YWI, N8JUF, N9FZX, W2FRT, W2AHD, W6AZP. W6/W1FEA & K2BA. W6/W9NQ & K16CV, WB6RXC. W7TSQ & AA7FT, N7JGS, N7LOX. W7ZR & AA7CM. W9EBN & K9MWU, KA9TBM, KB9CZD, N9FBB, N9GTL, W59C. W9JZ & K9JMM, K99ASQ, N9CHN, N9IOG, N9GV, W9NOCV, W9VX. WA4CUG & K2UFT, KA4GUM, KC4EWK, K54D, N4REE, N4VCY. WA6AHF & W6RSY. WA6IE & N6NMI, W2KYA, W6KVF, W6OUL. WA6ISP & N6AV, N6TLP. WB2JTE & Johnny. WB2CJU & KA3PCX, WB2ULI & N280W. WB3FIZ & KA3GIK, K83AM, N3ARK, WB3HZA, WB3LFX. WB8K & K8YSE, W8CZM, W8GMH, W8JGU, W8XD, WA8BIN.

WD4Z & KE4QL, N4NSL. W09INF & KB8HAE, WA8ZJA. WE2K & KB2HYR. WF2A & AA2AP, K1MEQ, K2MFB, KB2LD, K22DN, N2BLX, N2HR, N2KIV, N2WB, NK2H, NX90, WB2GHH, WE2K, WS2U. W3FM &

Zone Leaders Single Operator

Zone	Call	Score	Zone	Call	Score
1	WL7E	3,048,430	21	RF6FO	1,058,050
2	XM2ZZ	3,790,320	22	VU2NBT	404,995
3	WC6H	3,002,830	23	JT1CO	1,735,798
4	WM5G	6,308,064	24	V6WV	762,550
5	K3OO	5,706,990	25	JA8RWU	3,869,760
6	XE2BEU	993,568	26	No entrant	
7	TI2YO	450,840	27	KG6DX	6,009,018
8	F65F	12,192,368	28	YB2FRR	983,066
9	9Y4H	10,908,869	29	VK6ANC	83,990
10	HC8A	12,199,477	30	VK8XX/2	681,876
11	ZP0Y	2,961,295	31	AH3C	7,999,209
12	XC3BFZ	2,917,068	32	YJ1A	9,516,731
13	LU9DBK	1,702,008	33	CT3BH	14,892,102
14	GW4BLE	6,329,120	34	No entrant	
15	YT90A	7,120,204	35	TY2FG	551,078
16	RC2AZ	1,835,526	36	ZD2F	8,852,625
17	RL0O	3,900,480	37	SZ4BI	1,818,357
18	RA0BR	211,692	38	ZS6WPX	887,220
19	UA00S	502,756	39	FT5XA	1,501,056
20	ZC4BS	2,537,447	40	TF1MM	1,949,184

WF3L. W09Z & WR9R. W57V & KB7ILC, KF7TF, WI7R. WZ2B & AA2AG, AA2AY, K1JUL, KA2RDO, KA2YVU, N1ATN, N2KKB, N2KTJ, WZ2B. XE2N6IC & NY6J. XM1DX: K2NJ, NR2H, VE1CH, VE1DX, VE1VJ, VE1W, VE1JCI, VE1PBM, VE1ZJ. XM3JE: VE3EJ, VE3OZB, VE3KN. Y22YD & Y24YH. Y3BI: DK9FE, Y21J, Y23WI, Y27WI, Y31WI, Y54UI. Y5MKA: HA0LC, HA0MM, HA0NNN, HA5PP, TA5B, TA5C. Y07KAJ: Y07CK, Y07LBU, Y07KJAS: Y07CEG, Y07ALG. Y7ZR: Y72FI, Y72GW, YU2DQ, YU2EU, YU2HO, YU2KM, YU2NM, YU2NP, YU2MY, YU2NJ, YU2OG. Y74T: YJ4AV, YU4AY, Mirzo. Y75R: YU5FK, YU5GB, YU5GX, YU5JA, YU5PK, 4N5BFC.

Y77A: YU7BJ, YU7GQ, YU7NW, YU70A, Eddy, Ivan. YU2CFL: Denis Vincek, Ana Vincek. YU3AI & Y3T0T, YU3BM, YU3EO. YZ4Z: 4N4AE, 4N4CX, 4N4EX, 4N4MX, YU4AX, YU4EX, YU4FF, YU4NW, YU4SA, YU4SR, YU4TB, YU4MI, YU4RC, YU4PZ, YU4NR, YU4BK, YZ4NCS, YZ4DMN, Cera, Dave, Amelica, Samir, Jasmin. ZWBUR: P55JR, P55WG.

Station Operators Multi-Operator Multi-Transmitter

4D3HSP: 4F3AAL, 4F3BAA, DU3MY, DU3CWF, DU3WPX, DU3CWM, DU3FBB, DU3FSK, Crisostomo. 4N4C: YU4MA, YU4ZC, 4N4DXZ, Suad, Cedo, Vacko, Bob. YU4KM. 4U1VIC: DL1SCQ, DL2SCQ, DL4NAC, DL6FAL, HS1ANV, DL4MFM, NK4N, DK7ZT, DK7ZH, DF5BM. 5W1JJ: N6AA, N6ZZ, W6MKB, W6XD, W6B0KK, 5W1AT, 5W1AU. DABBV: DB6QS, DF2RG, DG6MGP, DH5MBB, DJ9IF, DJ1QJ, DK6WL, DL1MAY, DL1MFL, DL3MAA, DL4MEH, DL4MLF, DL5MAE, DL5RBK, DL5RBB, DL6RAI, DL7AV, DL7MAT, DL8RBR, DL11I, Y21RM. DF30G & DJ1FC. DL0CS: DC0LR, DD7LO, DG7LAK, DF7RX, DF9LJ, DK7FW, DK2OY, DK9VW, DL1AA, DL2LBP, DL2NBU, DL3LAB, DL4RJJ, DL6FEM, DL6LBB. EA1KI & EA1DOK, EA1DQB. FS/KC1F & N1AU. GB2AA: G3GAF, G4TNB. HB9AJM & HB9AGC, HB9ALV, HB9FAA, HB9B1A, HB9CVN. IQ3A: I3MAU, I3EVK, I3ON, I3JSS, I3QJZ, I3KVV, I3FIV, I3VJW, I3VRD, I3HRZ, I3W3FC, IK2BHX, IK2NJK, I1POR, K1RX, 16FLD, 16NOA, IK3NFX, IY3PRK, IY3YK, IY3WMP, IY3ZCS, IY3TQE, IN3BYV.

J37DC: W8KKF, W8BATS, K8CV, NY8E, WA8LOW, WA2ICE, KP2A, KJ4VH. JA1YXP: JJ1WYS, JM1BYR, JI7QPV/1, JE1BHV, JI2KRK/1, JG1TNX, JG2QHO, JL1SXX, Sakurai, Ogata. JA3YKC: JH4PAM, JG6MRT, JG3WDM, JG3CPF, JR5ARQ, JG6VTM, JF3VXV, JL3MCM, JL3HEY, LK1CDS, JP3AIK, JM3FVL, JO3UGI, Ken. JA6YFL: JL6F9F, JE4VXZ, Shinokawa. JA7YRR: JA7FDY, JA7JUD, JA7LBY, JA7MOM, JA7OZW, JH7MEV, JH7VHZ, JR7LVA, JH8YCT: JR8XWU, JE8JZX, JE8URM, JG6QMM, JF7LGH, JM3GZO, JH8WAH. JL1ZCG: JO1BMV, JO1RUR, JF2IWL, JN3PYQ, JH0EZN, JH0SEP, JR9JFZ, JA9VDA, JS1INN, JO1UXN, JI1UTP, JK3GRR, JP10GL, JK1JEO, JR0JFM, JR5KDR. K6ZM & AK6T, K1GYB, N86L, NP4IV, WB6MZQ. KH0AM: JE1CKA, JL1BLW, JI10PJ, JG2MCL, JA9SSY, JR7MD, JI3ERV, JH0GHR, JI2GUT, JR2IOU. JH4UTP, JR6PGB, JH7PKU, JA0DXG, JA0QNJ, JH0LFE, JH0USD. K6CC & AC8W, K5GO, K8DD, KUBE, KT8X, KE8OC, N8COA, NZ4K, W8UA, WA8RRR, W8BJP.

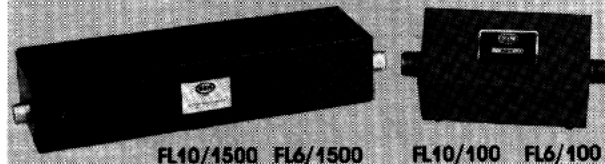
KL7RA & KL7TC, KL7XD, AL7AF, AL7QC, AL7HC, AL7KC. NL7V, NL7PH, AA6DX. KQ20 & WA2MKM, KB2HZ, K2BK. KY1H & WA1ZAM, KR1R, NJ1F, N2MG, KB1W, NT2X, N18L, KM1P, KA1XN, NU1P, KA1CI, KA1RE. LA3BL & LA9ML. LY2ZO: LY2NJK, LY2BFN, LY2BKZ, LY2BMX, LY2BOA, LY2BD, LY3BN, LYR346, LYR72B, LYR1751, LYR1853. N2RM & N4HY, WM2H, K2ZS, N2AA, K2TW, KQ2M, N2NT, K3UA, W2RQ. N5AU: WB5VZL, KN6M, W5XZ, N5CR, KM5X, WN4KKN, NM5M, AA5B, K5TA, K5IG, N5TR, N5RZ, N5KCA, N5OAO. N6ND & N6CW, N6BU, N16W, KM6K, K6JYO, K9VV, W6YA, W6B0RX, N6LRW. N6RO & N6IG, N6TIB, A06E, K6TMB, W6GM, W6RGG. N7QO & N0AFW, N6NU, N6UU, KJ6QE, W6BCNR, WA2FJL. N7RO & W7EKM, N7MMH, K7CGX, WA7ZWG, W87CLU. N8JMN & K8AQM, K8BECG, K0DPF, N8IVQ, NE3F & K3SF, W3AP, KY3N, N23G, NK3Z, NT3V. N2FL & KY2T, K2TCK, WY2X.

NQ4I & N4FD, KB4HZ, W14R, K4BAI, WB4FLB, KM4HH, DF3CB. ON7LR: Club. PJ1B: WY2Y, N3ED, WA3LRO, K2EK, N7ZZ, K3EST, N4RV, KB2XZ, K2SS, KT3Y, W3HHG, K1KI, NL7GP, W3UM, PJ9EE, K2SB. PJ9W: OH6NU, OH6MW, OH6RM, OH6FT, OH6JW, OH6BM, OH6YF, OH6DD, OH2MM, OH5N, OH2BAO, OH6XY, OH3UU, OH2KK, OH1XX, OH6IG, DH3MJZ, OH1MA, OH3XA. R6L: UA6LO, UA6LV, UA6LW, UA6LX, UA6LZ, UA6-150-1104, UV6LPL, UA6-150-1060, UA6-150-1070. SK8UJ: SM9HVB, SM0GZT, SM8NZB, SM8MRQ, SM8AVK, SM8NEJ. VE3SWA: VE3MAH, VE3NOM. VE7ZZZ: VE6BPP, VE6EZ, VE6SF, VE6VP, VE7ARS, VE7AY, VE7CV, VE7DRS, VE7EME, VE7HBO, VE7KD, VE7NHN, VE7RBL, VE7RK, VE7ST, VE7SSS, VE7WGT, VE7XYL. W3KV & W3GU. W3LPL & W12T, N03A, K3CEK, W3EKT, N3GB, W3IDT, F3P, K3RA, K3RV, K3SO, N3JU, KA3UBJ, WD4AXM, KN5H, WA8MAZ, N8II, K0JR. W5KS: KF5DA, KG5TO, N5PYD, KD5RO, N5NVQ, K85IYB, N5OQN, K85OIP. W7XR & W7AWA, K7IDK, W57I, N7L7, VE7NKI, K7RI, K7SS, W7TJ, N7UA, KE7V, WA6VEF, W7WA.

WB4IH/9 & N9KAU, KA9PVY, KA9FOX, N8BSH, K8FVY, AC0W. WB2YOF & K2TD, WB2R, K3GYS. W03V & N3LR, NTF3. W09I & Crew. Y72B: YU2NK, YU2VR, YU2NY, Y72LG, Y72NM, Y72IW, Y72JB, Pero, Sae, Ica, Zajo, Zvone, Braco, Alexandara, Sandra. ZF2MZ: K3IPK, WB2F. ZX4V: PY4DY, PY4NL, PY4BH, PY4BA, PU4WHO.

T.V.I. problems?

Low pass T.V.I. filters from
Barker & Williamson



Model	Power (Watts)	Cut Off Frequency	Frequency of Maximum Attenuation	Minimum Attenuation	Frequency Range	Price
FL10/1500	1000	34 MHz	52 MHz	70 db	1.8 - 30 MHz	\$41.50*
FL10/100	100	44 MHz	57 MHz	60 db	1.8 - 30 MHz	\$32.75*
FL6/1500	1000	55 MHz	63 MHz	70 db	6 meter	\$55.00*
FL6/100	100	55 MHz	63 MHz	50 db	6 meter	\$38.50*

All above to match
50ohm transmitters
and antennas.

*Add \$2 shipping
and handling

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**WORLD TOP TEN QRPp
All Band**

1. KR2Q	1,248,207	6. WA2UUK	584,684
2. 4M1G	1,144,827	7. F1BEG	556,920
3. K5RX	1,103,513	8. KD2TT	531,286
4. YU2TY	739,112	9. W5VGX	498,980
5. KN1M	606,816	10. K2WK	422,177

Number groups after call letters denote following: Band (A = all), Final Score, Number of QSDs, Zones, and Countries. Certificate winners are listed in boldface.

**SSB RESULTS
SINGLE OPERATOR
NORTH AMERICA**

UNITED STATES

K1RU	A	4,664,400	2727	143	455
K8P0/1		4,129,521	2602	140	421
W1WEF		3,434,291	2669	137	444
W1PH		3,323,895	2031	132	433
K1ST		2,574,000	1728	139	389
W1GD		2,297,350	1461	124	426
K8L7/1		2,191,140	1675	117	353
W1NG		1,689,120	1123	129	423
N1API		1,548,052	1162	109	357
K592/1		1,264,224	1084	101	315
K01Y		1,190,280	1299	103	271
K1CLN		998,580	936	100	264
K5MA/1		885,870	1138	63	207
K41HGY		771,907	975	67	214
K1TN		725,400	701	98	274
W1OP		707,544	769	95	222
K41DWX		629,300	627	83	267
K1V5J		616,383	645	83	250
K41DWX		603,018	604	97	254
W6KRS		577,709	635	85	234
W6GG/1		522,636	633	72	219
W1FM		491,550	606	78	212
K1JKS		479,214	504	83	254
NY1L		463,404	583	66	210
NU1G		411,876	567	81	225
W1FJ		352,836	513	66	176
W1BIH		316,008	377	90	207
W1C3		314,534	361	81	238
NC1W		244,647	406	68	158
KW5G		216,295	333	68	171
NU1E		201,596	345	55	147
N4XR/1		201,201	271	82	191
W1IHN		164,700	264	62	163
NF1J		162,162	312	44	133
W1MK		155,124	304	51	135
W1RM		133,397	258	52	129
W1WC		122,265	250	42	129
K41A1R		114,729	309	45	122
N1DX		89,090	212	47	104
W41LXP		86,394	214	48	106
W1AX		81,432	195	42	105
WC1D		78,590	200	40	98
KV1J		55,948	143	50	92
K1JBS		51,744	158	28	84
W1T5J		44,004	139	34	80
W41IE		21,725	100	20	59
WM1G		18,480	110	21	45
K456IS/1		14,833	61	33	58
K1F1R		14,161	98	10	39
W1FV		14,144	73	18	50
N1RC		13,937	67	32	49
WK1P		13,162	91	16	41
NA1O		5,980	40	19	33
W1OPZ		4,165	41	11	24
K1DG	28	932,696	1739	35	149
K5L1		915,399	1647	37	156
KM1C		912,560	1761	38	149
NX1H		779,365	1594	35	138
K1VLT		633,368	1418	33	131
NX1P		382,298	812	34	132
W2AX/1		165,490	428	30	104
K41RL1		121,968	358	28	98
K41SSU		82,455	250	25	90
K1VWL		78,438	284	24	78
W1OPB		58,446	209	26	76
N1FWC		58,045	227	27	68
N1FHR		36,271	155	21	62
N1FUS		23,112	117	20	52
K41UGO		16,140	108	10	46
K41VMG		15,128	89	14	43
A41M		12,566	75	14	47
N1GPy		8,601	68	17	30
K41UKR		4,140	35	16	29
K41RRX		2,220	26	8	22
K41SVV		1,140	15	5	15
K25X/1	21	600,483	1227	35	137
N8RA/1		376,200	906	34	118
K1DWQ		250,308	568	33	120
W1XN		150,027	405	32	97

K41IOR		148,592	92	16	37
K1WNT		104,995	320	27	86
K41GTR		52,689	217	24	67
W1RR	14	1,028,020	1804	39	157
N81H		902,275	1650	38	155
NY1E		163,080	447	32	103
W2SC/1	7	130,625	368	28	97
K41DZP		3,102	33	8	25
AD1G	3.7	62,392	288	18	70
N2LT	A	3,892,876	2393	137	422
K2DM		3,700,578	2258	132	414
K2MP		3,537,720	2233	145	413
K2PS		2,414,000	1704	123	377
K2PH		1,496,480	1131	116	354
N2WK		1,485,562	1190	108	334
WB2UEY		1,272,312	1039	106	325
KF2O		1,259,650	1048	104	323
N2VW		1,200,284	1051	100	304
W2W		1,170,448	1070	104	279
W2AC		1,076,901	966	109	290
K2JLA		860,079	785	104	285
N2MR		765,808	738	101	267
K82SE		718,680	743	92	247
W2A2DT		683,296	738	87	239
NW2J		676,800	744	86	234
K2FL		674,424	689	91	251
KB2NW		643,104	679	85	251
W2JGR		628,064	733	79	225
K2ZJ		570,505	617	94	241
K2ZWK		551,286	773	69	180
N2BJX		365,160	580	58	146
K2JUF		334,881	464	64	173
N2ZR		305,640	1132	82	188
K2B2W		295,929	420	65	186
WJ2O		294,998	419	72	181
NQ2O		287,028	429	68	170
W2TZ		268,840	402	64	171
K2B0W		238,320	572	72	121
K2ONP		212,184	306	77	175
N2CFD		208,075	366	61	142
N2KA		201,552	316	70	158
K2SM		199,916	332	56	156
K2ZHSK		170,321	325	53	128
N2EIK		150,775	291	45	140
W2SDO		129,720	250	63	121
W2MY		126,248	259	52	120
N2AGO		114,736	211	63	139
N2FF		112,944	250	39	117
WB2MRX		98,340	243	42	107
KB2DE		87,731	211	50	101
K2JF		79,316	187	15	38
N2DUB		77,103	381	71	172
AA2Z		76,254	197	46	96
WM2U		69,662	198	36	86
K2AJY		64,400	168	44	96
W5KJ/2		57,528	147	55	98
W2KN		50,181	165	42	87
W2KHQ		48,910	136	42	92
W2EAR		44,778	162	33	89
W2FR		40,068	125	40	86
W2HCA		39,078	133	38	79
N2RO		34,216	119	33	71
K1JUL/2		31,233	124	25	62
KB4VL/2		26,864	102	27	65
W2OKJ		25,564	231	39	97
KB2UW		25,284	102	40	58
K2MNV		23,970	103	21	64
N2G2T		22,422	82	39	62
K2A2OV		16,260	85	25	47
W2A0Y		15,104	89	17	42
W2LU		12,142	80	26	52
AA2Q		11,115	61	20	45
K2TZ		10,362	56	21	45
W2YZZ		6,909	59	21	26
K2B2M1		6,204	45	16	31
W2EBF/2		2,072	41	17	20
W2YZE		1,701	26	21	24
N2KLO		672	15	11	10
K2Z1	28	327,408	653	34	118
K2MFY		305,788	663	34	129
K2GTY/2		151,500	516	24	80
K2LE		111,544	272	34	112
N2BCF		77,010	269	25	77
N2AUV		68,338	252	23	71
KA2AWE		62,310	232	32	61
N2KBE		47,642	202	20	63
N2JTW		40,140	168	21	69
N2JHO		38,590	160	23	62
KB21UA		36,225	171	18	57
N2LDU		25,205	141	20	51
K2PFP		23,004	116	23	48
K2SWZ		22,032	112	22	50
N2JNZ		17,400	101	17	43
K2MXZ		13,224	83	16	41
KB2KXC		10,950	81	15	35
WF2B		4,095	42	14	25
K2SKO		561	17	5	6
N2GX	21	943,578	1806	38	140
NB2P		685,542	1261	38	149
WB2DND		133,280	336	33	103
KA2RGI		4,905	39	7	38
K2VY	14	939,624	1771	38	150
K2HFX		689,095	1372	38	149
K2MGA		247,940	624	32	108
KB2BF		147,500	1180	32	93
W2A2UJ		122,580	319	33	102
N2SW		68,013	244	22	77
W2ASQ		24,222	131	12	54
W2B		3,955	40	11	24
NQ2D	7	146,875	447	28	97
W2PM		130,161	352	28	101
W2VP	3.7	63,597			

KG6AO	231,352	360	89	153	N7KJE	8,874	63	22	29	KF9P	269,115	428	62	171	K0GT	21,976	101	21	61	T12YO	21	450,840	1361	34	102		
N6IBP	221,840	348	81	155	N7BG	28	913,674	1807	36	138	W9BCV	223,608	330	77	165	K00D	3.7	23,532	136	21	53	T16FLM	21	20,368	138	24	52
W6SDM	182,405	338	67	124	K7Q0	588,141	1321	36	123	K9BUM	199,684	350	67	165	K0XX	19,125	105	21	54	DOMINICAN REPUBLIC							
NE6I	180,268	340	60	127	NX7K	569,328	1285	40	134	W9BUD	189,294	350	61	143	ALASKA												
NE6AN	137,268	293	61	103	NW7D	354,672	898	32	112	K9DUN	184,894	345	54	139	WL7E	A	3,048,430	3368	129	256	H18LUZ	A	759,120	1343	69	171	
W6KXG	133,020	263	60	120	N87N	303,778	807	32	107	K9UQN	176,961	339	52	131	NL7FA	290,250	1031	52	77	H18A	173,505	633	45	84			
K6SG	125,493	250	71	106	W7FP	219,834	574	33	105	K9CRJ	166,428	295	64	143	KL7AF	97,350	396	43	67	H150UD	37,230	229	29	44			
W6REC	123,200	411	53	101	W7AYY	143,010	469	28	77	W9DGY	148,608	281	57	135	NL7KB	28	409,915	2396	26	56	(Opr. H13AMF)						
(Opr. KB6UNC)																											
K6UO	113,367	240	73	86	K071	129,108	425	29	77	N19C	128,040	249	63	153	NL7KJ	171,864	1008	28	49	H13LR	28	41,272	333	20	36		
W6EEN	100,989	244	48	99	W67VUB	76,154	269	26	75	W9KVF	115,878	231	53	125	KL7FAP	88,893	772	22	6	H13LFE	22,747	221	14	29			
W6BZSO	9,512	216	65	99	KX7J	21,975	103	23	52	AJ9C	115,866	267	52	105	NL7EL	1,738	63	2	9	H18DMX	21	148,167	636	26	75		
W6RNF	79,800	174	60	108	N07Q	12,834	77	20	42	W9BCY	108,770	266	38	108	AL7KS	21	76,304	425	24	52	(Opr. JP1DMX)						
W6LUFY	69,138	184	58	80	W7TZO	6,327	63	16	21	K9WBX	107,000	225	75	125	NL7HT	12,284	131	17	20	GUADELOUPE							
W6GSD	66,882	162	61	96	W7UPF	21	189,040	569	28	108	W9RZW	90,628	237	41	98	KL7HA	3.7	11,550	212	12	13	FG5R	A	12,192,368	7006	154	510
N6HE	48,160	166	45	67	K7LZJ	154,542	419	31	98	N9XX	70,091	185	43	90	ANGUILLA												
W6GFT	42,228	146	39	62	K67RT	34,432	186	20	44	W9NA	61,600	146	49	91	VP2E	1.8	6,936	143	6	18	JAMAICA						
K6JUD	35,056	131	33	62	W7VIH	6,012	60	17	19	W9GON	53,066	123	44	113	6Y5X	A	876,384	2013	62	142	(Opr. KN5X)						
AA6EE	25,026	109	33	53	K7LR	14	315,068	708	36	130	W9DYR	49,920	151	36	84	MARTINIQUE											
W6VVO	24,650	103	36	49	W7FAB	120,708	345	31	95	W9FEN	25,927	137	33	78	FM5DN	28	1,805,089	4247	36	133	(Opr. N65X)						
W6V60	23,634	112	35	43	K7FD	101,964	330	32	84	KASHDN	25,839	115	24	57	MEXICO												
N69FN	22,496	109	32	44	W7LGG	48,706	176	27	71	WU9B	23,594	98	35	59	XE2BU	A	993,568	1665	93	151	XE2UG	220,977	1713	54	75		
N6TDC	2,170	30	15	16	W6W7Q	48,100	117	35	113	KB50D	21,538	112	32	57	XE2M	90,628	273	53	86	XE2HW	47,644	255	33	53			
W6NV	28	877,389	1917	39	38	KW7Z	7	12,958	78	20	42	N9IUM	16,881	115	58	104	XE1AVM	23,384	133	36	43	(Opr. XE2GV)					
(Opr. W6GSHD)																											
W6PU	447,216	914	39	129	K3ZJ/R	A	2,460,025	1833	122	353	W9CA	10,940	65	16	42	BRITISH VIRGIN ISLANDS											
W6UOF	268,826	674	32	107	W83KX	1,000,416	884	99	309	N9AG	28	585,820	1221	34	136	VP2V	A	2,266,520	3381	74	206	VE1CBF	A	401,157	683	69	192
W6SIP	252,044	592	33	115	/8	2,123,985	1359	139	416	K9MDO	501,858	1168	32	115	XM1MQ	369,036	794	54	150	VE2M	90,628	273	53	86			
W6MBF	197,169	563	30	93	K8CF8	988,000	883	10	290	KK5L	449,280	1148	33	111	VE1I1	309,308	518	50	62	XE1ABA	3.7	23,808	387	11	20		
K6SIK	150,398	382	33	106	N8E8B	741,354	823	83	231	K9CAL	210,343	505	34	117	V06AW	4,725	50	9	26	XE1VIC	1.8	3,168	98	7	9		
K6PJY	147,034	410	31	90	N8E5H	726,024	806	85	227	K9JS	190,138	466	29	113	VE1CGF	14	76,145	274	29	66	(Opr. XE2GV)						
N6CDA	138,096	427	32	80	NC8V	457,478	564	75	212	K9BA1	143,190	408	28	101	V06V6	21	4,725	50	9	26	(Opr. XE2GV)						
A16Z	130,290	347	32	97	W8EOL	426,162	660	71	171	N9HW	53,385	49	14	31	VE1Z3	1.8	31,974	201	20	53	(Opr. XE2GV)						
W6FGV	99,130	302	30	85	K1BW	382,436	498	73	195	N4MXV/9	51,975	234	24	53	XM2ZP	A	3,790,320	3818	102	306	(Opr. XE2GV)						
W6RCL	88,608	301	24	80	K8CKE	382,436	498	73	195	N9BD	50,400	221	23	57	VE2AYU	1,132,047	1210	87	270	(Opr. N8MK)							
W6BIP	72,657	220	30	87	K8ABD	381,299	518	81	168	K9PNG	12,768	81	18	39	V07TM	565,980	1541	50	116	(Opr. N8MK)							
W6W1F	48,450	199	25	60	W4A0RG	338,766	461	74	188	/8I	21	177,141	450	32	105	VE2TAE	142,232	320	60	124	(Opr. N8MK)						
W6BNM	40,204	189	22	54	K8CLA	316,416	412	67	189	W9ZRZ	100,116	334	28	80	V07TA	142,232	320	60	124	(Opr. N8MK)							
W60PVN	39,530	204	22	45	K8KCG	275,334	448	62	156	K9NFC	116,459	313	33	98	XM2GSX	28	206,584	601	29	95	(Opr. N8MK)						
W6RMN	35,968	193	20	44	K8OQL	235,176	340	73	173	W9LNO	14,740	80	15	52	VE2MRP	86,655	300	24	85	(Opr. N8MK)							
W6MWW	18,966	118	22	36	W8PUS	208,075	364	58	147	K9CLO	14	176,808	460	32	103	VE2QK	64,600	293	24	61	(Opr. N8MK)						
W6X6M	18,836	106	24	44	W8RSA	164,358	296	62	145	W1SH	116,640	287	33	111	VE2EW	21	97,790	317	25	85	(Opr. N8MK)						
W6KXN	15,964	107	20	32	NW8F	144,255	311	47	116	K9YFN	116,459	313	33	98	VE2BMC	41,728	279	17	47	(Opr. N8MK)							
N6IFW	13,824	101	16	32	K8E0Q	137,741	274	51	130	N9C10	70,296	215	31	85	VE2	25,680	294	13	27	(Opr. N8MK)							
K6BGK	11,515	84	17	32	K8B0Q	134,872	270	55	129	K9DST	55,752	199	25	76	/VK2DXI	25,680	294	13	27	(Opr. N8MK)							
W6SVU	7,965	62	20	25	N8LM	120,204	232	52	137	W9CH	55,263	220	24	85	XM2PJ	14	847,207	1869	39	140	(Opr. N8MK)						
K6GZU	4,788	50	16	26	N8CF	109,251	224	60	123	K9DO	12,508	75	19	40	VE2GVZ	31,806	227	20	42	(Opr. N8MK)							
K6GZP	924	24	4	66	W8CW	107,910	348	30	80	KE9U	3.7	4,972	49	15	XM3IY	A	4,802,364	3673	137	395	(Opr. N8MK)						
N6TPT	864	22	8	8	W8LNC	99,012	244	43	105	W8EJ	A	2,039,342	1544	129	353	XM3AT	2,138,142	2063	87	280	(Opr. N8MK)						
N6VV	502,266	1076	38	125	W8URM	65,750	184	39	86	W8CQ	A	2,014,830	1635	115	326	XM3ZD	758,542	899	92	255	(Opr. N8MK)						
N6HR	279,260	889	36	111	KE8FO	50,460	159	35	81	W8CSM	A	1,676,896	1427	107	309	VE30TL	476,012	789	66	170	(Opr. N8MK)						
N6YKL	224,436	672	34	84	W8OK	50,127	126	53	94	W8PUJ	A	1,556,688	1174	134	358	VE3E3U	114,760	305	49	102	(Opr. N8MK)						
W8BND	87,792	261	26	92	W8OVTN	48,375	143	45	84	N8ZA	1,238,297	1125	120	271	VE3FJX	102,721	238	42	97	(Opr. N8MK)							
W8WPG	75,735	264	28	71	/8	48,375	143	45	84	K0KE	891,624	821	120	263	VE30MU	64,638	183	42	84	(Opr. N8MK)							
N6HK	37,444	141	25	67	NE8T	44,196	133	41	75	W4ETO/0	814,576	759	112	280	VE3	63,535	174	42	89	(Opr. N8MK)							
W8BDA	21,515	121	25	40	W8R8	43,911	146	40	78	W80F	749,634	864	83	226	VE3ST	18,430	69	41	56	(Opr. N8MK)							
W6PM	18,971	109	14	47	W8JRK	35,182	124	27	71	W8RXL	536,239	610	93	226	VE3ACB	3,465	29	17	28	(Opr. N8MK)							
K6SVL	14	285,576	652	37	N8M8B	34,768	125	39	67	W8MJN	530,658	678	74	205	VE3F3V	102,721	238	42	97	(Opr. N8MK)							
N6TU	109,650	299	34	95	AF8C	19,980	79	32	58	K8ZCFZ	432,408	678	81	177	VE3	63,535	174	42	89	(Opr. N8MK)							
W6FRZ	80,645	222	32	95	W8YGR	8,436	41	37	39	N8KN	383,736	501	75	196	/OZ1DRK	63,535	174	42	89	(Opr. N8MK)							
W6OK	41,041	161	25	66	W8IAZ	8,357	51	19	42	W8YA	348,948	535	69	174	VE3ST	18,430	69	41	56	(Opr. N8MK)							
AA6TT	7	38,948	156	26	KB0Z	28	697,363	1413	34	139	K8M0L	305,280	417	83	182	VE3ACB	3,465	29	17	28	(Opr. N8MK)						
K5KT/6	27,489	130	21	56	N8CXF	628,830	1281	35	135	K8DNB	251,304	413	71	151	VE3F3V	28	438,051	1140	31	120	(Opr. N8MK)						
W6R	105,343	450	32	69	N8M8S	292,699	927	30	91	N8SB	244,530	378	67														

KENYA			JA10XC	38,350	119	32	86	JASEXW	28	581,856	1319	37	115	JORDAN			UI8ADR	45,510	168	37	74				
52481	A	1,818,357	2832	64	155			JA5PDS	28	32,227	184	22	45	JY9SR	14	39,644	265	12	41	UI8ZAA	3.7	13,552	122	11	33
5240U	21	382,750	1030	34	91			JA5EO	28	15,704	106	18	34	KOREA			AALAND ISLANDS								
KERGUELEN ISLAND			JG1TVK	9,936	67	21	33	JESXVT	21	16,402	104	22	37	HL9RY	A	1,342,884	1787	97	185	AUSTRIA					
FT5XA	A	1,501,056	1771	84	204			JEGZIH	A	3,745,987	3106	131	308	(Opr. KG5EG)			OHMMAM	21	879,712	2591	35	113			
MADEIRA ISLANDS			JJ1NUJ	2,430	29	12	18	JJBLDD	28	1,454,037	1684	103	196	HL9FY	28	2,904	36	14	19	OH8BCI	3.7	52,950	555	16	59
CT38H	A	14,892,102	7177	166	531			JJACVV	28	1,086,288	1142	103	233	(Opr. KA00FY)			EUROPE								
MALAWI			JG1TVK	952	25	7	10	JJABWH	28	86,944	178	57	119	MONGOLIA			BALEAREN ISLANDS								
707JA	28	86,130	276	30	80			JJSGIM	28	73,144	160	62	102	JT1CO	A	1,735,798	3246	107	227	DE6MBG	A	3,274,089	2637	122	415
MOROCCO			JR1JWJ	518	22	3	5	JJH6TJ	28	48,285	194	35	52	JT7KAA	28	155,248	626	37	87	DE6CLD	28	1,113,984	1211	93	291
CN8MC	A	241,200	660	29	105			JJF6JM	28	47,066	172	33	68	JT1BR	21	101,550	902	25	50	DE6XXL	28	1,071,600	1286	100	280
MAURITIUS			JA1LBZ	372	11	5	7	JJF6KAC	28	5,763	40	17	34	JT5AA	14	18,556	169	15	31	/500	28	1,071,600	1286	100	280
3880B	28	126,000	509	25	59			JJH6JVS	28	342,357	918	36	103	JT1CS	28	10,718	141	17	29	OE2BZL	28	908,694	1193	93	249
REPUBLIC OF SOUTH AFRICA			JA1VBU	40,859	157	31	60	JJH6ZHV	28	170,016	437	36	102	REPUBLIC OF CHINA			OE1WEU	28	597,135	1171	85	244			
ZS6HO	A	295,040	620	49	111			JJG6EFT	28	90,404	332	29	69	BV2WA	A	100,001	415	24	43	OE5CWL	28	65,505	238	50	115
ZS6WPX	28	887,220	1927	38	117			JJG6ODU	28	60,344	277	26	50	(Opr. SP5DDJ)			OE1TKW	28	27,945	94	38	57			
SENEGAL			JR4PMX	22,996	104	29	55	JJG6PJA	28	51,282	181	33	66	ZZ1AB	21	1,016,715	2339	39	122	OE3HCS	28	23,084	85	42	74
6W	/YU5AD	285,100	968	27	73			JJG6RXL	28	42,000	186	26	54	SAUDI ARABIA			OE	4,559	56	16	31				
TANZANIA			JH1LAI	4,180	35	17	27	JJG6TDO	28	658,550	947	84	161	SINGAPORE			OE2LXAC	28	911,267	1922	37	145			
5H3RF	A	54	6	3	3			JJG6HFL	28	604,032	1081	64	128	9V1XR	21	42,735	400	30	47	OF1DH	28	502,203	1222	35	128
ZAIRE			JR1WGW	3,102	53	9	12	JJG6MXX	28	858	18	11	15	SOVEREIGN BASES OF CYPRUS			OE6GND	28	167,195	570	28	91			
9T5E	A	319,736	789	47	89			JJG6NPF	28	419,796	862	62	107	WESTERN MALAYSIA			AZORES								
ZAMBIA			JH2HFD	34,270	119	43	72	JJG6RVS	28	45,409	179	32	59	9M2MG	A	340,158	586	91	182	CU3LF	A	310,200	811	45	143
9J2FR	28	778,950	2003	35	100			JJG6TSD	28	12,992	76	25	33	9M2HG	28	59,787	873	27	36	CU2AF	21	32,706	235	17	52
ASIA			JH2BCN	405,720	1116	36	90	JJG6VSD	28	1,143,807	2547	36	111	U.S.S.R			BALEAREN ISLANDS								
HONG KONG			JH10A1/2	282,625	774	33	92	JJG6WSD	28	252,519	708	33	76	U66LJ	A	249,124	730	76	168	EA6ZS	A	49,067	198	42	97
VS6WV	28	762,550	2111	37	114			JJG6XSD	28	239,146	755	32	76	EA6AX	28	148,302	671	31	95	EA6LA	28	110,682	601	26	60
VS6	/W4WET	49,364	114	24	48			JJG6YSD	28	141,456	453	31	81	EA6WY	28	5,535	59	13	28	EA6ZT	21	241,440	1060	30	90
VS6BG	3.7	15,540	170	16	26			JJG6ZSD	28	37,654	132	29	78	ARMENIA			BELGIUM								
INDIA			JH2PXB	7,400	76	15	22	JJG6ASD	28	6,072	50	18	26	U66J	28	117,040	520	22	54	ON4UN	A	5,494,159	4050	134	382
AT8T	A	369,736	627	59	167			JJG6BSD	28	2,346	36	6	17	U66J	1.8	119,955	805	10	45	ON4ACB	28	438,669	826	68	143
U2N8T	28	404,995	1382	28	79			JJG6CSD	28	398,607	983	35	106	U66GAW	28	59,787	873	27	36	ON7RN	28	36,482	172	26	48
U2P2T	14	81,900	310	37	80			JJG6DSD	28	327,240	868	37	98	ASIANIC RUSSIA			ON5CZ	28	29,000	175	27	73			
ISRAEL			JH2MGG	6,804	57	16	26	JJG6ESD	28	291,992	888	31	82	RW9AB	A	240,669	632	33	110	ON4ZD	28	149,776	584	27	65
4X	/AA4KD	98,000	276	33	92			JJG6FSD	28	5,547	56	18	25	UW9CH	28	144,672	416	47	87	ON4APU	28	81,968	349	27	67
4Z4UT	A	325,663	660	46	123			JJG6GSD	28	110	5	5	2	UA9XC	28	22,725	90	35	66	ON4ZT	28	28,944	169	22	50
JAPAN			JG2TSL	8,917	135	28	53	JJG6HSD	28	75	5	2	3	UA9YNC	28	10,184	65	25	42	ON4XG	21	105,392	436	27	85
JF1SEK	A	2,907,024	2335	131	295			JJG6ISD	28	594,528	1187	39	137	UA9XAC	28	107,835	418	23	68	ON7CC	28	8,100	66	17	33
JH1AEP	28	2,779,343	2253	141	286			JJG6JSD	28	122,515	410	31	76	UA9LFLN	28	72,624	629	25	77	ON5KL	14	63,648	300	26	78
JATXAF	28	2,260,940	1829	140	290			JJG6KSD	28	97,110	290	33	84	UA9SCUA	28	33,672	161	26	66	BULGARIA					
JR1GSE	28	863,328	1105	99	177			JJG6LSD	28	57,685	152	37	102	UA9UJ	28	11,972	143	8	33	LZ1ZD	A	304,470	995	85	221
JA1PUK	28	675,880	841	96	181			JJG6MSD	28	3,666	39	18	21	UA9XNLN	28	1,224	17	9	15	LZ3ZY	28	210,336	630	53	171
JH1DAG	28	585,964	785	93	170			JJG6NSD	28	6,840	65	17	23	UA9MBSL	21	16,932	127	18	33	LZ1KYF	28	26,884	98	43	69
JA1BUI	28	284,820	505	69	133			JJG6OSD	28	7,640	65	17	23	RA9XSL	28	15,386	124	17	32	LZ6Z	28	7,938	88	19	44
JA1LZR	28	254,800	430	67	141			JJG6PSD	28	3,666	39	18	21	UW9AG	14	41,705	169	26	69	(Opr. LZ20E)					
JH1UUT	28	249,482	545	58	100			JJG6QSD	28	3,666	39	18	21	UW9CYA	3.7	73,320	423	12	48	LZ2OR	28	7,424	40	26	36
JA1IFB	28	206,400	345	80	135			JJG6RSD	28	3,666	39	18	21	UW9D0	A	502,756	759	107	209	LZ1K0Z	28	1,328,041	2851	38	142
JP1SRG	28	179,892	375	62	109			JJG6S	28	3,666	39	18	21	UW9E9	A	470,220	1185	59	111	(Opr. LZ1-1-244)					
JL1MWI	28	120,632	299	52	84			JJG6T	28	3,666	39	18	21	UW9FA	28	350,875	1245	56	69	LZ5N	28	953,403	2246	38	134
JR1TLA	28	58,995	216	44	51			JJG6U	28	3,666	39	18	21	UW9GB	28	238,741	572	72	121	(Opr. LZ1N6)					
JA1ASO	28	56,496	153	52	80			JJG6V	28	3,666	39	18	21	UW9HR	28	211,692	552	42	114	LZ5M	28	387,840	1022	37	123
JR1MRG	28	56,049	193	50	69			JJG6W	28	3,666	39	18	21	UW9IS	28	112,307	267	57	106	(Opr. LZ1PM)					
JH1HGF	28	42,952	151	48	66			JJG6X	28	3,666	39	18	21	UW9JG	28	23,166	115	42	57	LZ1HA	28	271,803	670	37	110
JH1YFC	28	41,093	145	44	65			JJG6Y	28	3,666	39	18	21	UW9KF	28	11,935	62	29	48	LZ1CW	28	80,444	395	27	64
JH1RMH	28	35,945	162	32	47			JJG6Z	28	3,666	39	18	21	LZ2JZ	14	37,701	309	21	38	LZ1OR	28	21,903	123	19	60
JAT1AA	28	33,672	172	30	62			JJG6A	28	3,666	39	18	21	LZ2JZ	14	37,701	309	21	38	LZ1M1	28	13,524	105	18	

OM6ADS	**	565,692	1464	36	105
OM2PAY	**	560,880	1486	35	109
OK3CFA	**	539,968	1391	37	106
OK3CAP	**	231,424	744	31	97
OK1VAM	**	206,886	642	33	90
OK1XW	**	142,830	435	34	104
OK3PO	**	43,659	196	24	57
OK2PAX	**	19,323	127	21	36
OK1DHL	**	12,508	92	17	36
OK3CEL	**	7,552	92	13	25
OM7DX	21	1,122,188	3067	37	157
		(Opr. OK3DX)			
OM1DIG	**	238,572	721	34	107
OK2PMA	**	151,032	553	29	95
OK3YK	**	101,964	503	30	86
OK3IA	**	14,558	109	16	42
OK2BPK	**	1,825	27	11	14
OK1FFG	14	7,954	107	10	31
OK1JRW	**	7,310	139	10	33
OK3THU	**	3,850	68	11	24
OK2PEL	**	3,750	99	9	21
OK2PPM	**	2,970	62	7	24
OK1MKI	**	2,542	76	7	24
OK3YCL	3.7	13,552	308	6	38
OK1UGA	**	2,040	22	5	17
OM6JDX	1.8	21,774	382	9	48
		(Opr. OK1JDX)			

DENMARK					
OZ3ABE	A	239,465	629	63	172
OZ6PI	**	80,475	308	44	141
OZ1ASP	**	56,682	240	39	95
OZ1FHX	**	55,860	190	43	70
OZ7DX	**	50,699	225	31	91
OZ7AX	**	43,044	233	35	67
OZ6ABL	**	23,808	114	30	63
OZ8ND	**	9,945	80	23	28
OZ8T	**	2,024	32	10	12
OZ4ABH	**	2,144	29	14	18
OZ5EV	28	319,992	873	33	101
OZ1KWC	**	300,265	1039	34	81
OZ1INN	**	122,969	590	23	54
OZ1ACB	**	82,618	340	29	72
OZ8AE	**	39,995	167	29	66
OZ9NH	**	11,550	115	16	19
OZ8UW	**	6,579	63	18	33
OZ4VW	**	4,128	65	13	11
OZ1LBT	21	216,370	810	29	81
OZ3ACZ	**	50,778	254	25	66
OZ7HT	14	514,794	1613	33	114
OZ1LRT	**	71,820	361	28	77
OZ6EI	**	1,134	24	8	19
OZ4MD	7	204,753	755	30	101
OZ1FTE	**	203,574	785	31	100
OZ3SK	1.8	19,500	300	10	50

ENGLAND					
G4XKR	A	334,884	595	66	170
G0KTN	**	154,959	415	49	108
G5LPL	**	83,584	461	29	99
G4MZJ	**	33,352	181	27	61
G3JKY	**	21,406	203	26	51
G4NXX/M	**	11,501	73	21	32
G0LMLX	28	54,815	246	25	70
G3TFF	21	218,790	622	36	117
G3XSV	**	108,288	532	26	70
G3FXB	14	1,423,450	3242	38	137
G4CNY	**	1,029,908	2402	38	140
G8BDX	7	392,160	1484	28	92
		(Opr. G4BUE)			
G4PKP	3.7	40,870	513	13	54

FAROE ISLANDS					
OY9JD	A	3,963,984	2845	140	474

FEDERAL REP. OF GERMANY					
DL9PC	A	3,944,192	3049	126	373
DK2XZ	**	2,828,540	2254	123	383
DF1N/P	**	1,280,268	1345	104	292
DL3LU	**	1,233,960	1150	118	337
DJ5FT	**	1,000,991	1030	109	310
DJ8UW/P	**	532,008	924	84	240
DJ5AV/A	**	393,221	654	72	199
DK5WO	**	387,247	600	87	256
DL5ZBA	**	308,465	704	57	134
DL80BL	**	274,188	557	64	155
DK9K	**	218,772	469	58	148
DJ2UU	**	217,560	442	66	156
DK3YD	**	200,932	498	48	143
DL5XB	**	178,620	389	67	128
DL1IAO	**	162,806	310	57	146
DF2KD	**	143,178	464	46	101
DL8SDC	**	143,040	412	48	101
DL2BAY	**	103,161	257	50	87
DF3IS	**	94,248	350	43	89
DL7YS	**	79,517	249	46	85
DL8AAE	**	67,640	255	46	106
DL8NBJ	**	57,645	164	52	83
DL9NCR	**	38,533	127	43	70
DL2GBB	**	30,392	126	42	74
DL20BN	**	16,200	115	24	57
DK9IP	**	13,694	82	30	52
DL4YBP	**	8,415	51	23	32
DL9VDQ	**	3,478	31	21	26
DL3YDY	**	630	28	10	11
DF8SB	28	1,256,266	2463	39	148
		(Opr. DF9ZP)			
DF8WS	**	666,995	1830	37	96

FRANCE					
F6AOJ	A	2,022,272	1704	113	335
HX0U	**	1,830,080	2589	90	254
		(Opr. F6DZU)			
F8WE	**	541,150	1202	76	198
F8EXQ	**	407,700	656	80	222
F1VW	**	295,032	613	66	162
F3HX	**	159,030	399	53	137
F9LX	**	142,528	388	41	201
FD10PW	**	112,161	231	71	68
F2RO	**	101,728	299	47	89
TM2A	**	67,167	201	55	98
		(Opr. F6HAC)			
F6FHA	**	40,848	161	38	73
FE6DRP	**	32,240	259	23	57

TOP TEN SINGLE OP ASSISTED					
All Band					
1. K1ZM/2	4,405,350	6. WB2K	2,805,712		
2. K1TO	4,088,154	7. W2GD	2,744,946		
3. AG1C	3,700,400	8. K1VR	2,625,952		
4. K3WW	3,580,653	9. K1CC	2,392,590		
5. K8MR	2,853,600	10. K4JPD	2,332,934		

FE1JND	**	4,747	63	19	28
FSJY	28	416,070	1189	32	102
FD1LFY	**	265,776	904	29	83
F1JJD	**	79,566	418	23	66
F810MN	**	5,220	59	14	22
F6AXD	**	1,815	26	13	20
F81PQG	**	783	31	5	4
FU1X	21	787,314	2168	37	114
		(Opr. F66MB)			
FF6K6F	**	725,712	1840	35	121
FF6KAW	**	432,790	1590	31	82
F6FJE	**	67,773	353	22	85
F6FGZ	**	8,507	111	14	33
F6ZEE	14	1,102,887	2842	39	138
F6FNA	**	59,421	425	23	64
F6ASS	**	17,580	199	16	44
F6BVB	3.7	18,480	302	9	46
F6AML	1.8	8,415	161	7	48

ICELAND					
TF1MM	A	1,949,184	2883	76	206

ITALY					
I8A	A	4,449,648	3348	136	396
		(Opr. I8CZW)			
I2SVA	**	3,228,120	2581	123	381
IK2GSN	**	2,144,240	1585	130	417
I08JQ	**	1,713,582	1392	97	254
IK5AO	**	1,032,004	1258	99	268
I3BOC	**	977,112	1364	102	267
I7L3	**	425,538	764	81	201
I05Q	**	425,538	764	81	201
		(Opr. I5VXG)			
IK1NDB	**	419,468	639	79	205
IK2LCY	**	312,127	583	68	161
IK1NPH	**	244,555	523	63	142
IK8LWA	**	206,492	427	60	149
I0YGV	**	131,760	301	52	131
IK3XUG	**	128,575	528	44	95
I03EJ	**	82,935	201	61	110
		(Opr. I3EJ)			
IK8NSR	**	80,088	281	51	90
I2FUM	**	75,110	163	68	135
IK2KFW	**	68,076	193	53	133
IK4FN	**	63,900	213	44	94
IK4CP	**	56,610	133	45	125
IK4JQJ	**	50,179	171	56	83
IK2IAR	**	47,867	152	49	102
IK1NPH	**	30,030	121	40	70
IK3HMD	**	28,208	165	28	58
I2HWI	**	21,840	103	33	58
IK0HTM	**	15,925	167	24	41
IK8IFW	**	12,994	99	26	47
IK4CBM	**	12,342	187	22	44
I08MMI	28	1,123,981	2510	37	136
		(Opr. IK8MMI)			
I2PJA	**	926,649	1999	37	134
I2HVE	**	702,560	1595	36	124
I4RPH	**	548,856	1413	36	118
IK5MES	**	536,380	1476	32	98
I5JHW	**	418,215	1052	35	112
IK2AEQ	**	411,944	1182	36	100
IK3BMV	**	397,785	1203	33	82
I43A	**	271,128	764	32	100
		(Opr. I43TAN)			
IK2HTW	**	214,272	641	33	95
IK3SCR	**	197,245	757	28	75
IK3NVN	**	190,280	539	33	101
IK8DUI	**	74,152	352	23	69
IK1MTT	**	29,792	392	24	52
IK5BDG	**	19,404	159	16	33
I0BI	**	6,448	80	13	18
I04FY	21	533,088	1464	37	112
IK3QBR	**	244,250	856	32	93
I8RS	14	312,984	1003	31	95
IK5NAW	**	251,600	1140	28	72
IK1JUL	**	16,592	184	14	47
IK1DML	**	13,395	146	16	41
IK5BAF	7	687,040	1809	37	123
I8GR	**	263,128	1243	31	93
		(Opr. I8RZ)			
IK3ZNR	**	164,391	874	26	85
I8IQM	**	6,750	111	11	39
I8VQP	**	5,658	101	12	34
I8VYY	3.7	36,896	502	126	54
IK8DWN	**	27,020	294	13	57
I8SAT	1.8	40	8	5	8

GERMAN DEMOCRATIC REP.					
Y58IO	A	2,556,659	2683	109	300
Z3ZFV	**	287,245	415	83	200
Y21XC	**	206,070	494	59	171
Z31EM	**	179,361	512	63	166
Y67UL	**	178,868	474	52	142
Y48PJ	**	121,260	347	51	121
Y250F	**	110,953	304	55	126
Y41NK	**	94,215	247	50	115
Y25KA	**	93,010	309	43	99
Y41YM	**	84,987	405	29	42
Y48GN/P	**	77,620	320	46	115
Y63SI	**	75,020	249	37	84
Z21YT	**	64,233	199	49	134
Y31NB	**	49,006	233	25	82
Y25JA	**	44,733	217	34	77
Y23GB	**	44,288	228	37	91
Y23JR	**	40,348	208	36	95
Y51TO	**	40,296	127	51	95
Y25PE	**	35,638	158	34	69
Y33UL	**	30,525	107	37	74
Y23CM	**	28,431	116	29	78
Y32ZF	**	19,008	109	25	39
Y24SH	**	13,747	90	24	35
Y59JL	**	11,055	89	21	46

SP9ADV	1,044	22	10	19	IT9LPN	150,772	411	52	135	SWITZERLAND	YL2KO	114,576	483	42	134	YU3	9,720	87	19	53					
SP3LPR	1,012	16	9	14	IR9R	1,325,835	2930	38	145	H99DLE	1,169,570	1323	99	271	YL2CP	32,873	416	20	51	/DLANAC	28	1,363,426	2850	38	137
SN60	582,484	1578	38	104	(Opr. IT96SF)					H99AAA	817,225	1088	90	247	YL2DX	16,430	83	40	74	4N3AA	718,865	1607	36	125	
SP5PBE	201,008	581	33	103	IT9BLB	1,225,194	2703	39	138	H99QA	8,008	57	28	49	UQ26N	125,541	600	28	83	YT3L	715,266	1791	37	121	
(Opr. SP6PVD)					IT9HBT	949,074	2087	38	139	H99CQC	166,944	551	32	109	YL2SM	113,322	491	25	77	YU3QM	504,942	1406	34	104	
SP5KVV	125,944	445	29	75	IT9RYJ	446,710	1325	38	117	H99CJG	86,112	404	26	52	YL2CR	21,750	612	12	46	4N2V	468,000	1435	34	86	
(Opr. SP5OAU)					IO9BCC	40,092	263	22	56	H99ARF	38,582	215	22	42	YL2H	4,991	63	12	19	YU4AR	331,903	956	33	110	
SP8UFO	74,883	305	30	79	IT9NTT	248,875	1024	31	94	H99DX	27,798	101	29	94	YL2PJ	76,806	427	27	75	YU2QU	128,760	463	29	87	
SP6EIV	45,279	216	25	56	SPAIN					YL3AD	44,484	111	6	32	YU7FT	17,220	148	13	29	YU1POI	5,434	71	11	15	
SP9RVD	28,413	173	20	43	EA3NY	4,192,650	3524	111	351	RCZAZ	1,835,526	1862	118	344	YU3PV	1,127,829	2329	39	144	YZ3A	584,913	1534	37	110	
SP9EML	5,850	52	17	22	ED7TV	1,823,430	1893	106	293	UC2ICD	153,608	538	46	136	LY3BA	5,001,768	3768	129	418	YU3XU	535,841	1424	36	121	
SP5ML	2,288	38	11	15	EA3BK1	1,453,072	1465	97	297	UC2SDJ	90,364	361	38	126	LY3BS	2,327,160	2310	115	326	YZ9S	417,240	1490	34	88	
SP5GIQ/7	550,530	1695	33	102	EA3GBU	1,198,570	1689	79	211	UC2OT	23,900	121	34	66	LY3BR	548,163	755	94	245	YT3SW	402,600	1269	31	101	
SP4EEZ	327,094	1120	33	101	EA4DX	859,420	879	99	289	UC2WEV	26,620	218	13	42	LY2BNC	484,428	961	74	242	YU1EYX	1,229,680	2763	39	151	
SP3EQE	43,134	226	22	56	EA1CON	598,780	1009	67	178	UC2OM	24,192	215	15	39	LY3BO	429,408	654	90	246	(Opr. YU6AR)					
SP8BJH	25,792	253	16	46	EA1IF	369,610	769	61	169	UC2OB8	41,292	326	19	55	LY2BIS	401,268	808	58	146	YT3M	1,035,045	2251	39	148	
SP3RNF	17,500	108	24	46	EA3GJ	342,717	732	64	194	UC2LR	83,500	309	32	93	LY2PAQ	364,180	760	65	197	(Opr. YT3ZW)					
SP9MRP	12,236	128	15	31	EA1JO	337,080	640	71	149	UC2IO	22,914	192	17	50	LY3BX	272,104	874	66	175	YU1KQ	936,320	2494	37	123	
SP9ZD	2,072	27	10	18	EASCHT	277,130	593	62	152	UC2ABC	181,290	313	11	44	LY2PW	259,308	549	69	215	YT3T	920,975	2272	39	148	
SP3GRQ	493	14	8	9	EASDCL	271,400	611	57	143	ES5RY	781,550	1293	93	292	LY3BU	197,588	524	50	138	YU1JW	533,520	794	39	132	
SP5BWO	124,079	503	32	71	EA3EJ	184,475	472	56	179	ES4NG	99,396	280	51	147	LY2BQJ	159,528	533	40	144	YU3QI	12,985	237	8	45	
SP9GDB	44,232	247	26	71	EA1AW	179,900	417	56	119	ES6WN	47,059	737	43	123	LY3BH	117,304	484	41	131	4U—GENEVA					
SP7MJL	7,697	132	8	35	EA3DNC	178,791	492	51	132	ES4RLF	10,858	162	15	46	LY3BP	48,576	189	42	54	4U					
SP6DHH	6,321	122	10	33	EA5FJ	173,346	417	55	112	ES1RX	1,785	32	10	9	LY2YU	21,437	99	37	60	/DLANAC 3.7	8	4	1	1	
SP3CMA	6,144	83	11	34	EA1EYV	157,914	405	53	133	ES10X	63,270	313	22	73	LY1VV	8,642	69	25	33	OCEANIA					
SP6CXH	5,920	110	11	29	EA3CZR	144,364	356	54	138	ES7FU	178,999	619	34	113	LY2BAA	261,422	629	35	107	AUSTRALIA					
SP5GRU	26,151	271	14	56	EA1BOR	142,848	385	48	133	ES4LB	1,029	17	8	13 </td <td>LY2DM</td> <td>244,790</td> <td>745</td> <td>35</td> <td>95</td> <td>VK3JAL</td> <td>228,879</td> <td>543</td> <td>50</td> <td>97</td>	LY2DM	244,790	745	35	95	VK3JAL	228,879	543	50	97	
SP3RNX	17,272	204	15	53	EASJC	141,570	316	57	124	ES7AM	25,428	214	20	58	LY2BOC	126,784	479	27	85	VK3PU	190,298	334	74	119	
SP5MXX	90,300	521	14	56	EASJG	106,944	211	64	128	EUROPEAN RUSSIA					LY2BKA	8,319	53	19	40	VK3KP	140,580	353	54	88	
SP9AHB	22,568	411	8	44	EASJG	98,532	269	53	108	RA1AA	849,771	1415	88	263	LY2BN	36,736	257	22	60	VK2AYK	84,216	221	46	86	
PORTUGAL					EATDKR	78,078	270	41	102	UA1ANA	837,892	1207	96	292	LY2B1	155,640	735	30	90	VK6ANC	83,990	220	44	85	
CQ9N	5,432,952	4072	135	449	EATEBL	77,597	262	46	81	UA4NC	468,707	676	97	252	LY2B2	35,828	719	19	75	VK5AKY	6,800	70	17	17	
(Opr. CT4NH)					EASEQ	73,625	286	39	86	UA4HV	354,273	920	81	188	LY2B3	4,636	104	7	31	VK2CJH	3,375	38	18	27	
CT1CLR	751,226	1093	82	240	EA2CR	54,000	241	37	88	UA3AB	240,279	335	97	206	LY200	500	25	3	17	VK4NEF	218,712	718	29	75	
CT8D	695,020	1595	81	229	EA1ETO	52,151	185	44	77	RA1AG	160,740	311	64	164	LY2BUE	1.8	500	25	3	VK3TZ	184,240	702	31	67	
(Opr. CT1DI2)					EA2CZC	52,003	170	40	93	UA4CJ	136,479	427	55	146	MOLDAVIA					VK2PWS	93,366	500	21	42	
CT1QF	113,007	332	42	97	EA7BYM	46,534	189	35	71	UA6ED	264,880	639	69	211	UO40F	618,840	1182	78	192	VK5AKY	6,800	70	17	17	
CT4KQ	452,340	1600	30	96	EA3NA	37,120	143	38	90	UA3DPX	251,160	558	73	207	UO50L	149,625	427	62	163	VK4NEF	218,712	718	29	75	
CT1					EA3FKM	36,354	207	34	64	UA3AB	240,279	335	97	206	UO50A	21,480	111	26	44	VK2CCK	85,652	306	23	53	
/G0AEV	145,077	640	26	85	EA5GJM	34,338	148	33	64	RA1AG	160,740	311	64	164	UO50B	23,904	113	22	61	VK8BE	8,073	69	18	21	
CQ5AHU	142,848	673	25	71	EA3GEG	30,992	132	42	64	UA4A4A	136,382	520	45	150	UO50R	10,000	154	9	41	VK3AOR	101,460	355	31	58	
(Opr. CT1AHU)					EAC2PK	30,016	170	30	82	UA3DRB	120,643	219	75	148	UKRAINE					VK3SM	43,830	187	28	62	
CT1BBJ	133,084	689	25	73	EA7CP	30,012	118	41	81	RZ5AB	120,546	428	53	128	UBSMD0	590,208	1010	82	236	EASTERN MALAYSIA					
CT1EEB	15,444	213	11	28	EA7CA	27,972	133	41	85	RA3AUU	107,866	204	61	141	RB4JL	461,295	811	74	171	9M6HF	428,940	831	72	108	
CQ4A	1,757,780	3912	38	141	EA1CNL	25,641	153	23	40	UA3AGW	51,925	125	61	94	UB5UJ	147,889	258	79	180	FEDERATED STATES OF					
(Opr. CT1B0P)					EA3EKT	22,428	185	33	56	RV1AW	86,817	441	35	94	UB5MLP	88,624	231	54	137	MICRONESIA					
CT1AZS	18,468	116	20	61	EA1DCQ	21,210	119	26	44	UA3AGW	51,925	125	61	94	UB5EPV	35,361	162	35	76	V63DX	3,097,748	3343	112	204	
CT1AZC	14,494,720	1549	34	94	EA5DSG	11,952	99	23	49	UV3DTP	46,512	202	34	77	UB5SWE	997,752	2183	37	131	(Opr. JA7HMZ)					
CT1DVV	433,720	1389	33	107	EA4DDE	5,406	65	16	37	RA4RF	35,480	161	19	46	RB5SHO	115,876	423	32	86	GUAM					
CT1A0Z	1.8	16,359	190	11	46	EA3DBO	3,500	34	16	19	UA4YJ	28,615	203	34	101	UB5BFF	65,000	277	25	75	VK6DX	6,009,018	4405	146	325
RHODES					EA4AK	28	1,039,487	2413	37	120	UA6LAY	8,023	64	23	48	UB5XCU	31,915	238	15	40	KH2				
SV5AZA	210,779	1117	35	95	EA3ELZ	100,062	415	27	75	UA6HRZ	167,902	669	34	100	UB5MKD	9,976	162	11	32	NH3					
ROMANIA					EA2LY/4	83,961	536	22	35	RA3DEV	65,706	376	27	67	UB5TDI	1,336	57	4	4	NH2					
Y020FA	359,078	700	80	222	EA1DDU	48,705	309	24	61	RA3DQP	64,386	331	25	73	RB5QF	679,055	2003	36	119	/N7DF	21,751,272	3669	38	125	
Y06VZ	211,536	877	30	74	EA1BFX	42,925	198	31	67	UA3XAL	59,122	256	28	75	UB5JCK	285,264	958	31	113	KN2D	7	248,965	873	29	72
Y04CIS	282,048	753	49	115	EA5GIG	67,230	414	22	61	UA3MDV	40,796	228	26	68	RB5IN	137,484	648	30	84	HAWAII					
Y06JN	178,504	458	58	174	EA1DFH	40,480	253	22	70	UV3AHM	28,600	200	19	46	UB4ME	122,094	533	30	89						

WESTERN SOMOA

SW1JD A 11,907 79 32 31

SOUTH AMERICA

ARGENTINA

LU9DBK A 1,702,008 2179 78 186
LR2D " 222,880 533 52 96
(LPr. LU1YU)
LU7MAD " 30,495 105 33 74
LS6T 28 2,648,018 4440 39 163
(Opr. LU6ETB)
LU4MEE " 1,089,288 2987 33 90
LU9FDG " 863,272 1990 33 116
LP3F " 806,036 1771 37 117
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L2Q " 418,560 1508 34 62
(Opr. LU1HM)
LS1H " 394,758 1069 32 94
LU8EGO " 393,240 1200 29 84
LU2NI " 270,972 850 31 86
LU1CXC 21 501,480 1233 34 106
LU1DF " 261,602 741 33 81
LU1MFK " 86,702 303 25 52
AY9F 14 55,796 399 25 41
(Opr. LU7FD)
LU1IV 7 196,773 670 31 76

ARUBA

P48V A 8,627,385 6440 120 333
P48R 21 2,719,336 4972 37 147
(Opr. K4UEE)

BOLIVIA

CP1FF A 90,489 245 49 90
CP5AK " 20,520 103 18 39

BRAZIL

PP5IA A 265,930 506 68 135
PY3HLM " 132,132 344 47 96
PY2NY " 9,268 75 23 29
PP5WG " 32 4 4 4
P05C 28 2,658,240 4611 39 156
PY2ETR " 104,940 287 26 73
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ZW40D " 1,351,679 3065 35 114
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PPIAAX " 1,292 25 10 9
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CHILE

CE3BFZ A 2,917,068 2731 112 251
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CE4MVK " 618,600 1028 71 139
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CE5BPE " 44,781 231 21 48
CE3AEZ " 24,764 205 17 48
CE3FIP 21 1,726,812 3294 38 139
CE5EZ 14 1,805,620 2217 36 118
CE3ZI 7 29,325 193 25 50

COLOMBIA

HK7MQC A 56,932 128 55 117
HK6IUI " 17,010 133 19 35
HK3MAH " 8,976 71 25 41
HK3JHH 28 601,825 1525 31 102
HK3MKQ " 50,850 215 23 67
HK3MRU 21 67,165 248 25 77
HK6LNO " 12,296 80 20 38
HJ4QIM 7 67,915 279 22 63

EASTER ISLAND

CEBZU 14 587,142 1554 29 102

ECUADOR

HD1T 21 1,486,188 3113 33 129
HC1HC 7 492,833 1407 31 90

GALAPAGOS ISLANDS

HC8A A 12,276,477 6887 143 460
(Opr. N6KT)

PARAGUAY

ZP5M A 1,182,008 1411 89 195
(Opr. ZP5XHM)
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(Opr. ZP5MSC)
ZP8Y 28 2,961,295 5409 36 149
(Opr. ZP5JCY)
ZP6B 21 501,385 1170 35 114
(Opr. ZP6ARB)
ZP7CO 14 3,570 55 13 21
ZP5FSS 7 105,074 360 31 76

PERU

0A4ZY A 1,991,000 1924 101 261
0A4ANR 28 604,800 1807 30 90
0A4QR 14 291,264 901 30 81
0A4CRK 7 77,742 493 22 41

TRINIDAD & TOBAGO

9Y4H A 10,908,869 6278 150 439
(Opr. K6NA)
9Y4BU " 138,610 308 54 113
9Y4VU 21 2,231,037 4387 36 135

URUGUAY

CX8BBH 26 1,604,536 3230 37 130
CX6BZ 21 94,094 365 25 66

VENEZUELA

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YV5CLK " 129,008 272 58 118
4M5Y 28 803,845 2401 31 85
(Opr. YV5LAS)
YW3A " 677,264 2066 29 83
YW6W " 291,382 1076 23 68
(Opr. YV6CAX)
YV6DNP " 247,104 822 30 74
4M5T 21 1,055,694 2198 37 126
(Opr. YV5JBI)
4M3BC " 293,384 951 26 78
(Opr. YV3BC)
4M5KWS " 26,000 241 18 32
YW3A 14 1,529,500 2947 35 140
(Opr. YV5IVB)
4M5VP " 288,672 1022 22 74
YV1EQW " 33,908 405 11 17
4M3X 7 622,251 1521 33 114
(Opr. YV5LIX)
YV5JDP " 534,936 1461 26 98
YV1CP 3.7 96,640 524 20 44
4M5E " 48,363 335 13 34
(Opr. YV5MBX)
YV4ABR " 4,160 58 8 18
YV1DRK 1.8 9,666 127 8 19

MULTI-OPERATOR SINGLE TRANSMITTER NORTH AMERICA

UNITED STATES

K1AR 11,193,606 4437 170 703
K1YR 6,066,750 2821 160 590
KING 5,803,684 2651 163 610
AA1K 5,293,096 2668 159 559
KA1GG 5,269,363 2716 146 525
KB1H 4,138,416 2112 148 548
W1AF 3,490,830 1998 141 489
K12M 2,864,550 1779 128 437
W1GHI 2,722,820 1765 134 411
N1TZ 1,664,327 1152 128 383
W1BK 1,481,722 1027 124 393
W1K00 1,039,308 1088 87 250
KA1X 819,549 778 92 277
K1SSN 695,565 507 110 267
W1FY 386,370 710 72 198
K1CXK 91,635 229 43 106
K5NA/2 6,194,342 2715 166 637
K2TR 5,787,315 2603 169 620
N2NU 4,446,720 2154 161 559
K2SG 3,590,194 1962 143 510
W2HPF 3,458,650 1893 147 503
WF2A 3,294,400 2027 138 442
N2JL 2,508,550 1606 131 419
N2SS 1,832,250 1254 122 403
K20WE 1,320,948 939 116 370
W2ZB 1,160,492 936 114 332
KE2TW 1,106,921 971 95 296
N52K 1,000,500 956 90 285
W2UI 458,122 533 85 216
WE2T 252,704 406 58 154
W2BJTE 55,245 159 45 82
KE2UZ 30,660 187 20 40
N3RS 7,752,168 3366 167 637
W3XU 5,034,101 2687 143 516
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K3YL 3,071,236 1710 141 444
N20E 2,506,208 1529 134 403
W3PFI 1,742,976 1162 127 407
W43PT 1,531,132 1088 122 381
NA3K 1,456,773 1159 108 339
K3ANS 1,322,178 944 125 381
K3DI 1,228,938 920 118 360
K3IVO 953,520 843 109 302
N3HW 459,131 548 73 220
WF3M 404,184 544 69 195
W3CJU 58,377 671 20 67
W3KWH 6,084 57 14 25
W4MYA 5,269,550 2550 161 576
AB4RU 2,403,522 1572 145 404
W4AQQV 2,116,836 1483 131 377
N4AA 2,018,862 1349 131 400
W4PRO 1,397,322 980 119 402
W4AOL 1,144,000 825 138 382
W4ACUG 875,292 749 108 310
NA4UM 620,194 772 69 220
AA4LH 521,640 609 85 230
WD4Z 508,592 602 77 227
KN4FC 205,920 322 68 172
W4NC 118,560 323 35 95
W82UL/5 2,136,582 1390 155 392
W85E 1,083,643 865 125 348
K5BDA 702,145 697 101 260
K5QHD 667,998 773 80 226
K5VSK 599,394 632 102 251
W5WX 462,132 641 89 208
W6QHS 3,509,271 2017 159 462
N6TV 2,841,332 1909 144 397
W1FEA/6 2,804,736 1914 138 390

W9NQ/6

A6GD 1,414,776 1112 124 342
A6GD 1,272,180 1086 130 325
NF6S 1,248,148 1061 123 291
W60AT 1,134,480 947 124 311
W6AIE 1,124,024 990 126 298
W6AGH 969,025 811 121 294
KE6WL 956,449 913 112 265
K6BR 724,632 820 112 215
W6YX 721,088 876 101 203
AA6TD 678,500 538 134 326
W6AISP 252,044 592 33 115
K6SSS 2,108 22 14 20
NK7U 3,550,130 2347 144 401
W7ZR 1,386,512 1172 124 325
W7TSQ 1,314,800 1300 122 258
N07F 863,753 947 109 232
WS7V 485,030 609 90 197
K7ABV 346,542 481 85 174
N7JTS 158,775 267 72 147
KB7IRF 140,097 414 29 94
KB7IM 47,970 243 24 54
W8BK 2,977,058 1656 154 477
K0BSQ 246,856 384 65 171
K8QUA 155,215 300 49 136
AC8N 96,739 240 47 112
K89K 7,190,746 3033 177 652
AA8A 2,229,210 1437 143 415
K9UWA 1,924,032 1294 147 381
W09Z 1,159,600 933 121 325
W9JZ 1,005,311 808 119 330
W9UUI 995,820 856 110 310
N9JC 935,445 833 114 299
W9BINF 623,917 648 96 227
515,145 602 85 220
W9EBN 449,224 636 65 176
K9MA 167,200 306 74 146
N9JZ 167,200 306 74 146
K9ECC 35,030 122 36 77
K0RF 6,124,248 3017 171 556
K0CS 2,877,462 1838 142 432
K0RB 2,810,760 1720 145 445
K2BC 2,468,268 1738 134 372
W0CP 1,897,967 1364 135 388
N0PQ 1,552,526 1314 126 320
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N0BNG 1,108,188 1060 100 272
N0LS 874,494 902 93 249
K0BLX 716,688 777 93 243
K0GAS 654,126 790 99 219
K0BK 563,332 631 101 240
W0RA 185,400 531 50 100
K0BJ 129,325 263 63 112
129,192 301 52 116

BARBADOS

8P9X 15,388,604 7726 165 583

BERMUDA

VP9AD 11,040,968 7426 155 497

BELIZE

V31K 8,282,335 6146 131 434

CANADA

XM1DX 11,159,888 6497 160 552
XM3EJ 10,663,008 5247 172 614
CZ7S 6,051,772 5867 127 327
Y7ZCA 3,189,064 3443 87 271
VE6SV 3,051,279 3090 311 310
VE5FX 2,905,770 3137 118 293
VE7GFC 1,131,174 1580 110 209
VE6AG 648,945 1176 89 164
VE1AUE/1 466,084 882 64 154

GUATEMALA

TG8AA 2,250,417 3082 64 183

MEXICO

6D2X 13,380,887 8169 160 507
6I2A 2,040,194 3697 86 174
XE2/N6IC 1,179,152 2503 82 126

4U-NEW YORK

4U45UN 3,759,035 4786 86 249

AFRICA

CANARY ISLANDS

E8AGD 14,796,344 7204 147 545

DIEGO GARCIA

VQ9CQ 1,670,664 1844 90 212

MADEIRA ISLANDS

CR3M 11,698,470 6539 143 456

MOROCCO

CN8A 14,008,363 7134 139 508

MOZAMBIQUE

C9QL 344,805 639 63 118

ASIA

ISRAEL

4Z7M 5,184,036 3756 115 362

JAPAN

JEZYRD 7,938,128 4663 158 434

JATYAA 4,908,800 3285 145 375
J3YBB 4,172,720 3347 131 299
JA3YBF 4,114,816 2667 149 395
JA6YJS 3,451,014 3033 130 297
JA1YKX 2,252,104 1997 121 273
JH1YHS 2,188,750 1837 129 297
JA6YCL 1,991,608 1707 126 286
JH1YDT 1,746,176 1690 116 293
JA2YKA 1,428,800 1547 11 209
JA8ZY 1,023,252 1261 97 187
JA2YDC 370,640 598 79 147
JA5ZBI 155,210 335 58 112
150,980 785 69 113
JA9YAV 136,498 350 56 83
JL1YOE 112,008 254 68 88
JA0YPB 68,226 194 65 72
JA3YOI 9,240 81 18 28
JA0YMU 1,449 25 9 14
JA3YDH 1,026 16 11 16

KOREA

HL8D 507,800 1023 76 124

MONGOLIA

JT1T 427,392 940 57 135

PEOPLES REPUBLIC OF CHINA

BY4SZ 2,899,554 3192 113 244
BY1PK 2,445,933 2989 114 229
BY4RSA 1,896,630 2452 107 224
BY4SZ 1,333,420 2108 97 193
BY4AA 755,712 1586 92 154
BY1QH 750,738 1379 76 135
BY3CC 71,804 873 58 58

TURKEY

YM5KA 15,056,964 7609 164 548

U.S.S.R.

ASIATIC RUSSIA

RW9HZZ 5,399,016 3544 157 431
UZ9QWA 2,356,584 1668 118 329
UZ9WNL 565,488 901 76 176
UZ0CXD 203,100 1202 56 94
UZ9XWV 159,873 368 80 131
UZ9FZD 97,584 350 45 107
UZ0LWQ 58,170 300 39 66
UZ0QWZ 25,438 168 32 47
UZ0SXF 12,025 68 30 35

GEORGIA

UF7VVA 8,243,453 4426 150 517
UF7QWV 1,480,734 1639 73 233
UF7FWM 63,002 241 28 81

KAZAKH

RL8L 8,947,440 4454 188 552
UL8LWA 3,896,472 2621 144 396

EUROPE

AUSTRIA

OE3GBB 837,162 1263 87 246
OE3XCW 356,128 607 68 180

BALEARIC ISLANDS

E66FM 4,892,876 4052 121 407
E66AR 827,966 1820 61 153

BELGIUM

ON6NL 7,440,552 4890 136 452
ON6AH 3,214,450 2731 135 395
ON7UN 3,019,410 2550 126 351
OR5EC 1,733,816 1999 99 293
ON4KRC 176,754 466 51 127

BULGARIA

LZ9A 13,234,208 5884 202 726
LZ6W 1,134,112 1587 104 228
LZ1KNP 630,180 1021 84 240

CZECHOSLOVAKIA

OM5W 10,249,516 5128 164 624
OK7ZZ 8,371,500 4670 151 589
OK1KQJ 1,489,158 1692 100 314
OK2RAB 755,764 1301 79 173
OK2KOD 699,776 961 90 262
OK5SWL 547,722 986 76 218
OK1ORA 506,506 758 77 209
OK2KET 311,589 722 64 203
OK2KYC 287,718 552 60 177
OK2JUC 105,078 409 47 119
OK3KUN 91,884 412 46 110
OK2KVI 6,912 79 17 37

DENMARK

OZ7HVI 1,445,393 1948 88 249
OZ1ADL 390,488 735 68 198
OZ4HAM 12,064 100 20 38

ENGLAND

G0KPV 7,135,320 4797 135 447
G3NAS 5,304,933 3912 122 391
GX0OBS 1,851,390 2827 77 193

FEDERAL REP. OF GERMANY

DL0WU 6,236,890 4021 136 454
DFWAT 4,854,891 2233 135 458

DL80H 4,654,188 2866 142 515
DL0WH 3,024,868 2366 128 378
DL1DAS 2,782,695 2491 114 321
DF0RR 2,716,968 2395 119 355
DK0IN 2,631,435 2363 122 343
DK0XX 2,535,610 2197 123 395
DL0DT 2,444,883 2298 116 345
DL0FDX 2,445,869 2446 102 271
DF0PK 1,188,618 1459 96 301
DL0JU 1,103,356 1265 96 262
DF0RN 568,512 900 82 247
DL0ER 461,338 743 67 184
DA1RF 362,278 776 69 160

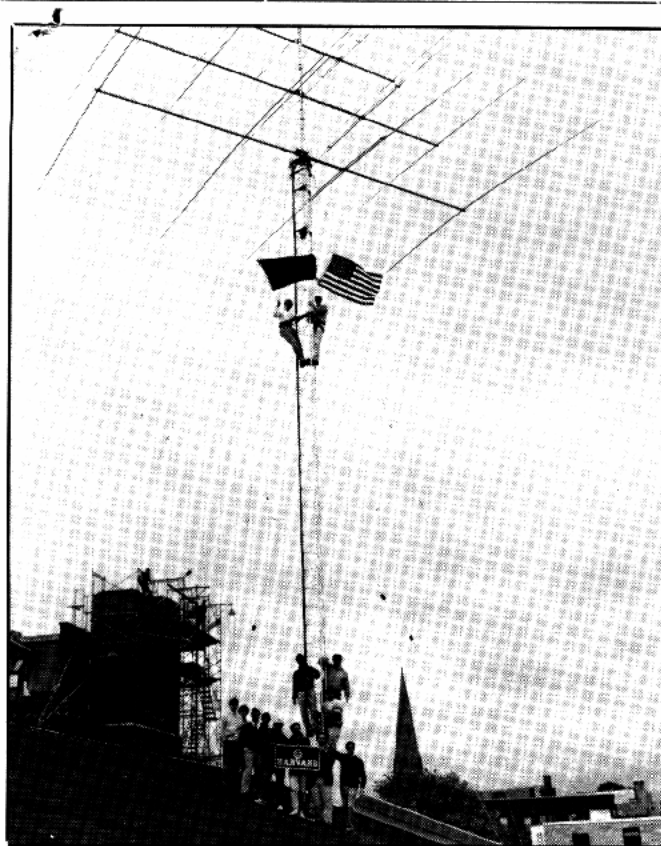
FINLAND

OH4YC 3,854,025 3141 135 390
OH2BR 1,674,844 2166 116 317
OG7NTM 1,244,490 1589 101 289
OH4AB 845,250 1091 94 281
OH1MCX 390 10 7 8

FRANCE

F6HLG 7,164,960 4824 128 424
FF6KRC 5,825,449 4498 119 350
TM5A 4,713,390 4273 124 382
F6CQU 4,123,563 4055 99 282
F6BGC 2,934,502 2356

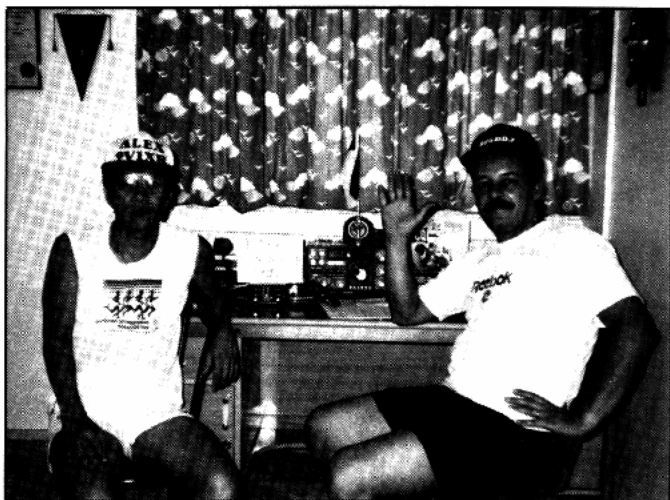
SWITZERLAND		BELAU		NORWAY		K3VW		K88FJ	
HB9H	7,063,672 4818 144 472	V838D	3,097,536 3869 88 184	LA3BL	193,584 527 53 169	K3ND	1,492,619 990 134 407	NR8Z	27,966 86 48 70
HB9GT	1,978,152 2141 98 283	HAWAII		SPAIN		KQ3F	1,453,078 1002 124 390	KK9V	A 1,943,470 1303 133 412
U.S.S.R.		PHILIPPINES		SWEDEN		W3UM	1,249,755 900 126 367	K9SD	1,587,720 1116 136 388
BYELO-RUSSIA		WESTERN KIRABATI		SWITZERLAND		N3II	1,204,231 871 114 383	WW90	1,352,070 998 131 367
UC1WWF	236,720 555 58 162	T30F	11,000 85 23 32	YUGOSLAVIA		N3RR	1,198,080 849 131 381	WE9R	1,338,818 1032 113 353
EUROPEAN RUSSIA		MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA		NEW ZEALAND		AA3B	1,084,810 931 100 315	NE9U	850,773 799 108 273
RW4LYL	3,639,336 2857 144 408	UNITED STATES		PHILIPPINES		K3ZA	1,033,406 884 106 333	WW9L	769,519 708 112 289
UZ1APWV	1,334,928 1658 109 302	N2RM	18,146,246 7321 171 716	SAIPAN		NK3U	946,542 769 109 328	WW9Q	601,852 614 104 275
UZ1AWQ	1,139,424 1605 99 317	N5AU	16,736,436 6746 187 691	WESTERN SOMOA		AD&J/3	856,639 850 99 272	K9EC	520,026 554 102 237
RZ6AXO	1,042,797 117 274	W3LPL	16,517,214 6577 179 703	SOUTH AMERICA		N3BN	719,946 668 111 312	NF9S	429,286 535 73 213
UZ4HXX	1,030,264 1418 100 256	W7XR	12,232,124 5627 185 603	BRAZIL		KD3CN	715,884 731 80 273	WD9GIG	406,363 398 96 287
UZ3GYM	894,219 1327 91 256	KY1H	11,468,292 5058 175 674	BRAZIL		N3NA	597,498 593 102 261	K89AIT	393,056 437 104 242
UZ1TWC	712,347 1074 89 278	K8CC	9,785,580 4671 180 625	BRAZIL		K3RL	593,580 566 105 285	KE9I	357,161 492 88 171
UZ30YA	316,260 751 72 179	NQ4I	9,532,050 4402 173 622	BRAZIL		N1SP	570,064 615 90 238	KD9BC	77,714 155 58 124
UZ3DXS	177,122 484 59 135	N6ND	8,483,628 4045 180 581	BRAZIL		WB3CIW	431,745 573 68 201	K9PAJ	65,760 174 44 93
UZ3DZW	137,685 464 56 145	NE3F	7,087,960 3554 154 558	BRAZIL		AD3Z	427,936 470 103 241	WB9T	721,130 1382 34 151
UZ3AWR	61,596 539 66 140	ALASKA		BRAZIL		NC3C	402,034 478 95 263	WB9GPF	242,392 523 35 129
UZ26LW	352,692 675 80 223	KL7RA	17,130,631 11386 157 466	BRAZIL		W3EVW	348,440 420 117 193	K9JS	186,730 464 29 113
UZ30YA	316,260 751 72 179	CANADA		BRAZIL		W3AZ	301,176 467 68 199	K8BF9/9	14,756 61 18 50
UZ3DXS	177,122 484 59 135	CAYMAN ISLANDS		BRAZIL		W3NX	295,812 380 87 210	WB9T/9	21 456,790 986 36 134
UZ3DZW	137,685 464 56 145	FRENCH SAINT MARTIN		BRAZIL		KA3PLS	267,244 366 85 199	K90SH	124,352 335 33 101
UZ3AWR	61,596 539 66 140	GRENADA		BRAZIL		K3TLP	254,650 330 83 192	K9FN	14 132,354 298 37 125
UZ26LW	352,692 675 80 223	ASIA		BRAZIL		N3RC	162,540 273 64 146	N8AT	A 1,486,414 1012 135 386
UZ4AYT	18,200 161 25 75	JAPAN		BRAZIL		KX3Q	123,200 203 66 154	WB9RLX	A 1,331,304 1087 126 317
UZ3DZO	15,756 102 21 57	JAPAN		BRAZIL		K4JPD	A 2,332,934 1597 146 405	NT0H	1,024,320 952 101 287
UZ3DYU	3,880 65 12 28	JAPAN		BRAZIL		KB4RE	1,167,276 943 118 326	WB0SK	710,040 693 113 275
KALININGRADSK		ALASKA		BRAZIL		WA4CTE	815,652 719 117 300	/0	230,972 290 93 199
UW2F	9,296,331 5579 151 530	CANADA		BRAZIL		K8UNP/4	663,705 721 86 257	WB0ZKG	66,000 151 57 108
UZ2FWN	208 17 4 9	CAYMAN ISLANDS		BRAZIL		KM4EX	573,144 622 92 242	K9CAL/0	203,832 501 34 115
LATVIA		FRENCH SAINT MARTIN		BRAZIL		K0LUZ/4	514,386 504 97 272	CANADA	
RQ9W	8,893,779 5207 161 583	GRENADA		BRAZIL		KD40M	182,880 274 74 166	VE3VET	A 531,810 657 83 228
UQ0A	5,209,225 3973 147 448	ASIA		BRAZIL		WA4WTG	138,250 291 55 120	ASIA	
LITHUANIA		JAPAN		BRAZIL		N4XMM	121,584 222 67 137	JAPAN	
LY2WW	4,453,610 3158 144 466	JAPAN		BRAZIL		W4TMM	114,444 225 51 136	JH6AXY	A 46,336 132 50 78
LY1BXT	170,798 590 44 114	JAPAN		BRAZIL		WA4KL	58,826 162 46 88	JJ1HTT	A 34,689 128 41 52
MOLDAVIA		JAPAN		BRAZIL		W4LVM	40,608 146 39 69	JH1DWM	28 990,234 1948 37 137
UO40XU	107,520 309 53 139	JAPAN		BRAZIL		KB4SSS	40,414 133 37 84	JA5EXW	581,856 1319 37 115
UKRAINE		JAPAN		BRAZIL		K4KUZ	23,028 77 45 69	JA8VH	97,152 369 26 66
RT1U	6,636,312 4747 164 568	JAPAN		BRAZIL		K4I4Z	28 154,800 370 33 115	JA8VPO	21 12,931 76 33 34
UB4WZA	3,768,992 2751 138 470	JAPAN		BRAZIL		N4WVH	83,566 240 28 99	JF2BNG	7 6,100 47 19 31
RB4IWM	2,064,951 2271 109 340	JAPAN		BRAZIL		N4G6V	21 748,028 1532 36 136	EUROPE	
UB4QWV	1,991,250 2296 115 335	JAPAN		BRAZIL		N4H0H	7 45,732 162 26 77	ENGLAND	
UT4JWB	1,077,648 1500 96 218	JAPAN		BRAZIL		KC4GR	3.7 6,165 60 11 34	ENGLAND	
UB4MXR	772,272 1195 89 257	JAPAN		BRAZIL		K05GD	A 1,453,938 1295 116 316	ENGLAND	
UB4HWU	179,300 451 65 155	JAPAN		BRAZIL		K13L/5	1,433,244 1090 131 367	ENGLAND	
UB4XWK	191,520 545 55 125	JAPAN		BRAZIL		WF5E	828,036 793 114 282	ENGLAND	
RB4EXN	160,993 492 54 157	JAPAN		BRAZIL		N0IDR/5	527,459 601 81 242	ENGLAND	
UB4IWI	24,820 126 31 54	JAPAN		BRAZIL		K15GX	216,923 359 68 165	ENGLAND	
UB4WVVW	15,680 117 25 55	JAPAN		BRAZIL		W8NSA	/5 210,429 352 71 156	ENGLAND	
RB4IYJ	5,950 75 23 37	JAPAN		BRAZIL		N5ERC	28 100,700 361 24 76	ENGLAND	
WALES		JAPAN		BRAZIL		N50GX	82,602 318 26 91	ENGLAND	
GW8GT	7,200,496 4,911 134 458	JAPAN		BRAZIL		KA5ZG/5	64,542 357 25 68	ENGLAND	
YUGOSLAVIA		JAPAN		BRAZIL		N4M/5	21 347,442 781 36 122	ENGLAND	
YT7A	6,207,540 3,799 152 522	JAPAN		BRAZIL		W85UDX	323,974 783 33 113	ENGLAND	
YT2P	5,840,076 3,919 134 470	JAPAN		BRAZIL		N5I2Y	66,875 245 26 81	ENGLAND	
YZ4Z	5,011,345 4043 123 429	JAPAN		BRAZIL		N5IM0	52,234 232 24 67	ENGLAND	
YU3AI	3,858,724 3,553 103 349	JAPAN		BRAZIL		KB5JJB	35,588 229 25 57	ENGLAND	
YT5R	2,171,787 1,483 93 292	JAPAN		BRAZIL		A 1,168,458 985 136 311	ENGLAND		
YT4T	1,253,109 1,640 83 216	JAPAN		BRAZIL		N6ST	1,083,350 846 127 343	ENGLAND	
4N7M	1,089,652 1,410 93 238	JAPAN		BRAZIL		KT6V	1,058,049 855 126 321	ENGLAND	
4N4U	542,430 886 79 236	JAPAN		BRAZIL		VE3SUN	755,790 787 100 254	ENGLAND	
YU2CFL	30,700 222 35 65	JAPAN		BRAZIL		/WG	605,578 600 121 273	ENGLAND	
SOUTH AMERICA		JAPAN		BRAZIL		AA6GX	556,110 648 98 235	ENGLAND	
ARGENTINA		JAPAN		BRAZIL		N6CC	371,188 472 86 198	ENGLAND	
L4D	2,299,884 2298 110 234	JAPAN		BRAZIL		K6HHD	300,125 314 102 241	ENGLAND	
ARUBA		JAPAN		BRAZIL		N6IP	205,572 339 75 147	ENGLAND	
P48T	12,491,478 6996 142 464	JAPAN		BRAZIL		N6OU	196,588 317 81 157	ENGLAND	
BRAZIL		JAPAN		BRAZIL		KK6GN	194,423 367 64 135	ENGLAND	
PT7FX	5,072,256 3714 14 330	JAPAN		BRAZIL		N6SRT	190,414 347 72 131	ENGLAND	
ZW6JR	3,809,548 3125 126 293	JAPAN		BRAZIL		WB2CHO	/6 189,696 276 80 167	ENGLAND	
PP5JD	3,741,000 3397 103 272	JAPAN		BRAZIL		WABLLY	168,036 284 66 143	ENGLAND	
CHILE		JAPAN		BRAZIL		/6	135,103 315 52 115	ENGLAND	
CE2AA	2,611,474 2498 108 253	JAPAN		BRAZIL		WAGAUE	109,004 186 89 140	ENGLAND	
CE2GVM	55,948 416 50 67	JAPAN		BRAZIL		K16X	70,623 151 68 103	ENGLAND	
ECUADOR		JAPAN		BRAZIL		AJ6V	31,696 117 45 67	ENGLAND	
HC8E	4,500,936 3484 121 325	JAPAN		BRAZIL		K16GP	19,840 94 31 49	ENGLAND	
FRENCH GUYANA		JAPAN		BRAZIL		N6AHV	2,090 22 17 21	ENGLAND	
FY/KD3FK	1,516,880 1854 69 214	JAPAN		BRAZIL		KA6ING	89,211 290 32 99	ENGLAND	
OCEANIA		JAPAN		BRAZIL		K6GYR	84,162 188 37 132	ENGLAND	
FEDERATION OF MICRONESIA		JAPAN		BRAZIL		W6HXW	65,169 197 29 88	ENGLAND	
V73AZ	7,018,640 5084 155 317	JAPAN		BRAZIL		K16ZH	21 96,878 288 29 89	ENGLAND	
FRENCH POLYNESIA		JAPAN		BRAZIL		W8AEF	/6 14 64,148 223 29 87	ENGLAND	
F08AA	4,115,669 4915 98 185	JAPAN		BRAZIL		K13V/7	A 2,299,142 1501 143 419	ENGLAND	
AUSTRALIA		JAPAN		BRAZIL		KY7M	1,504,244 1267 124 310	ENGLAND	
VK3VT	2,992,626 2937 109 242	JAPAN		BRAZIL		N7PJM	939,780 1005 100 245	ENGLAND	
VK2BUV	2,535,414 2446 107 250	JAPAN		BRAZIL		KCV7	698,442 727 120 234	ENGLAND	



Harvard, that center of knowledge, teaches cooperation between the USSR and the USA as a joint team made up of Soviet and US amateurs fired up W1AF.



JA2JSF's QRP effort gets some special help from Mt. Fuji in the background.



Guest operator SP5DDJ (right) found an interested new contester in Alex, 9V1XR.

IS0LYN	90,270	243	52	110
IK0CPS	67,326	267	30	68
XE2HWB	66,660	260	40	70
KG1RS	53,856	159	35	97
VK3RF	51,620	169	51	65
IK3NAA	50,048	279	27	65
YU1KN	46,960	211	42	100
UA9UDV	45,540	232	35	76
NM1K	43,865	130	42	81
UB3MP	42,462	244	34	92
W8QZA/6	38,413	126	40	67
UA1WFP	34,762	259	24	67
RB5QW	26,736	140	35	69
WB0JOC	24,817	124	28	55
RW3AH	21,614	83	45	56
VE7HR	21,168	392	28	26
SM0BYD	18,909	95	34	65
Y62JD	18,768	152	23	46
YU4XA	18,000	91	29	43
SP2GUC	17,466	94	29	42
Y23TL	9,660	139	14	56
Y22XC	8,250	134	9	46
G4SNR	4,995	49	21	24
Y22BT	4,430	99	20	23
W22T	1,280	50	16	16
PY2IAX	1,000	45	13	15
N6BFM/4	327,928	633	34	145
JR3RWB	274,052	747	33	98
F8BX	201,240	661	33	96
(Opr. FB1MUX)				
K7GEX	197,694	547	34	92
N4KG	197,424	481	31	113
JA1TLK	181,104	564	32	80
EA3FVQ	168,302	731	25	78
GJ3YHU	163,511	522	28	85
KD2UF	129,735	337	32	103
JF2L0P	119,600	377	33	82
UA9NJV	105,472	158	8	32
UA0FZ	101,673	381	32	67
RB5CC	100,540	423	29	81
UA3ADN	77,062	378	28	78
GM4ELV	69,68	332	24	67
UA3NHJ	66,834	506	24	55
SP5FKW	56,515	294	22	67
RA3DX	52,170	224	23	65
Q4MET	50,745	271	24	61
ED1EPB	44,822	269	20	53
UV3DPP	34,160	300	21	41
EA3FHT	32,214	200	21	38
RB50PS	27,792	250	20	52
UB5VDA	23,777	195	22	52
UM6MAA	22,480	107	23	57
LU2DW	21,978	125	22	44
UV3DMZ	21,828	182	20	45
NL7PJ	13,497	155	13	20
K9PNG	12,768	81	18	39
I3MDU	12,599	112	12	31
PY2ORF	10,800	113	11	13
UP2BSD	10,721	67	19	52
RA6ASB	8,836	80	17	45
Y03AIS	7,254	83	15	44
VE7EKS	7,101	111	11	16
UB5FBG	4,788	86	10	18
UB5ZME	4,284	62	9	19
WA7NWL	1,495	23	10	13
PA3FDW	1,488	124	12	16
RA3LDF	1,300	134	10	15
K6KKB	52,608	212	29	75
EA3DXD	58,712	324	19	63
UB4IM	52,432	229	30	83
SP2UOU	40,896	264	20	52
SM5CCT	40,887	300	18	59
W6CN	39,442	171	27	55
YT1T	37,620	346	14	52
KB5CTQ	15,687	98	20	43
LY3PBG	14,076	147	16	35
DU1CHD	/6			
U9MT	13,509	87	22	35
U9MT	5,890	74	13	25
KA1UJ	66,761	235	23	78
VE6SH	53,037	268	23	60
RV3DS	23,364	214	17	49
SP5CJQ	20,631	205	16	53
IK6PK	20,085	187	14	51
KA1CFZ	13,572	84	17	41
DK7H	13,166	85	15	43
JA2JSF	12,155	82	21	34
EA2BTO	8,235	102	10	35
Y05CUQ	6,095	77	10	32
SP9JCN	3,344	83	7	31
ZP5HHS	1,824	42	10	14
UA4LC	76,131	395	29	79
Y050BA	8,250	138	11	39
JG7LBN	12	2	2	2
SP4FGI	5,217	131	13	25
J17GBI	230	12	5	5
YU4AU	4,847	129	5	32
UM8MDX	1,449	25	7	16
KI0G	1,008	17	6	6
UV6LRW	285	11	5	10

CHECK LOGS

Our thanks to the following stations who sent in checklogs: 905TE, A1GZ, CE1Y1, CE3Z1, CS0CP, CT1BY, CT1DJE, CX2PI, DJ8MBF, DJ3VC, DL2SDC, EA1CYL, EA1DXY, EA2BOT, EA2BXJ, EA3CVI, EA3DKF, EA3FIM, EA3FYD, EA3GCV, EA5BZS, EA5EGT, EA5SS, EA5UB, EA7/EA5EGD, EA7DLC, EA7DL, EA7DLD, EA7DUD, EA7FZR, EA7TK, EA8YG, EC1CZU, EC5CON, ED5CGU, ED5CXL, E51RRM, E52RMP, E56EA, E56W/YU5AU, F11COA, F6GGS, G/0Z7SM, G30BB, GM0AVR, HL9TY, IT9ZGY, JA9B0H, JF15QC, JT1-184, JY9SR, K1ER/0, K6FM, K6FM, K9PNG, KA0KHE, KG7AY, KJ4EK, KT2D/0, LA08X, LA1FW, LA1HCA, LA1DDA, LA2I, LA20G, LA20H, LA2PC, LA3JT, LA3WBA, LA4BQ, LA40GA, LA4RD, LA50GA, LA5RBA, LA6PBA, LA8LA, LA8XM, LA9FFA, LA9HF, LA9NM, LA9OI, LY1BYK, LY2BAG, LY2BPO, LZ1KBG, LZ1KVZ, LZ10Q, LZ3BS, N0GOS, N4XPE, N5QIL, N8LBI, O61MD, OH0MLG, OH0NJ, OH1PY, OH2/ES2RR, OH2AA, OH2BNP, OH2DW, OH2FU, OH2KU, OH2NC, OH2VO, OH3RI, OH3HF, OH3HS, OH3TT, OH3WR, OH2AD/5, OH5FA, OH5MMG, OH5PT, OH5WL, OH7AA, OH7TO, OK1ALW, OK1TW, OK2PLH, OK2SG, OK2BJR, OK5AD, ON5FV, OZ18UR, OZ1LEE, OZ2TH, OZ6IC, OZ7BH, OZ7FI, OZ7J, OZ9RU, PA0CYW, PA6RVS, PA6ZGD, PA2NUN, PA2SWL, PA3CWR, FT2NP, PY3BD, PY4KB, RA1AI, RA1WO, RA3AGN, RA3ALA, RA3DDU, RA3BJA, RA3DP, RA3DSK, RA3GJ, RA3NU, RA3OC, RA3ZM, RA4PI0, RA4PKA, RA4PKI, RA4PKL, RA4YM, RA6LA, RA9JB, RB5CL, RB5DX, RB5YH, RB5LX, RB5UU, RL7AC, RV6AF, RV6LD, RW3DM, RZ4PWO, RZ9UWH, SK4BLM, SL5ZYB, SM0CSX, SM0MC, SM4PDD, SM4SE1, SM5CVC, SM5DAC, SM5EMR, SM5GA, SM5SVL, SM5UF, SM6BSK, SM6BWQ, SM6NJK, SM7CNA, SM7EJ, SP2AHD/A, SP2BWA, SP2ERZ, SP3BVI, SP3CDQ, SP3KCK, SP3RAV, SP4AS, SP4GC, SP4PIN, SP5ENA, SP5ILO, SP5N0G, SP5UAF, SP6CZ, SP6FIB, SP6HTO, SP6TGD, SP7-1248-LD, SP9AAB, SP9DFH, SP9JMA, SP9PRO, UA0BBS, UA0QBQ, UA0QCA, UA0ZDD, UA2FEA, UA2FGG, UA3AHA, UA3MFY, UA3PB, UA3QLJ, UA300D, UA3SEJ, UA3XBB, UA4ATB, UA4CDL, UA4HRZ, UA4PKN, UA4UCD, UA4ZA, UA6HON, UA6LBP, UA6LQ, UA6WCO, UA9AKV, UA9JFR, UA9LIP, UA9LFI, UA9OS, UB4CO, UB4LWC, UB4LYD, UB4MKE, UB4QZ, UB5CE, UB5ID, UB5LPC, UB5LO, UB5FJ, UB5QA, UB5VAP, UB5XAN, UC1AWZ, UC2AJW, UC2CEI, UC2LB, UL7FCW, UL7JHP, UL8BWC, U050DC, U02GR/A, U4TUH, UV3DRU, UV3DTH, UV3NB, UV6HFG, UV6HP, UV9FG, UV9CF, UV9RR, UV9BHP, UV9CL, UV9JU, UV9UE, UV9YM, UZ1AWT, UZ10WZ, UZ3MWO, UZ3OZR, UZ3RZZ, UZ3SWX, UZ4AXN, UZ4FWJ, UZ4HWS, UZ4YWF, UZ6HWE, UZ6HXK, UZ6LWV, UZ9FZO, UZ9LWE, UZ9SWR, UZ9YWA, VE1RJ, VE2LJ, VE3WAJ, VE3XO, VE4AAU, VK5AKY, VP8ON, W5CWO, W6BMP, W7EYR, W7WHY, WB4HJH, WB4RUA, WL7AFD, Y22XF/P, Y23AC, Y25SA, Y26XF, Y28WG, Y35WF, Y53YN, Y54TO, Y54WM, Y66YF, Y670G, Y75YL, Y02QY, Y06ADM, Y07LCD, Y08AI, Y08RO, YU3XU, YZ90S, Z21BL, ZP5XHM.