



IO5OYY with some contest graffiti in the background.



LU4F—the boys from LU put on quite a show for this contest!



FO0JO with W6GO at the mike.

1982 CQ WORLD-WIDE DX CONTEST PHONE RESULTS

BY BOB COX*, K3EST, AND LARRY BROCKMAN**, N6AR

The fates that control those radio waves decided to shake things up a bit in the 1982 CQ World-Wide S.S.B. Contest. After the dust had settled on the weekend it was clear that conditions on the low frequencies were excellent—probably the best they have ever been—while the higher frequencies were excellent, good, or poor, depending on where you were on the planet. Even though there was a disturbance which affected the polar routes, new world records were set on both 28 and 21 MHz. The conditions on 160 were exceptional, with over 80 countries in participants' logs! Many stations on the east coast of the U.S. commented on working a VK mobile on 160.

When it was all over and all the logs were checked, the overall Single-Operator winner was 9Y4VT operated by N6AA. Dick made over 7000 QSO's in the 48-hour period—Wow! HH2WW operated by N4WW made nearly as many, but had to settle for second place. Austin was followed by N1GL/6Y5. In the U.S.A. W1ZM operated by K1ZM pulled away from the pack and took away the high U.S.A. crown. He was followed by last year's winner, K1AR. Third place in the

states was hotly contested, and K1RX emerged as the winner.

Records broken other than those mentioned above were as follows: Single Operator All Band—Asia UF6CR, Europe YU3EY. World Record Single-Operator Single-Band winners were 7 MHz YU3BRF; 21 MHz AH0AB (Opr. JA3ODC); and 28 MHz YV2AMM. Continental Single Band records were set by EA8AK (1.8), 4X4NJ (1.8), N2BZQ/4X (14), YU3EF (1.8), YT3A (3.8), KH6XX (3.8), AH0AB (21), AH0B (28), YM3AZC (3.8), YV3BRF (7), CX4CR (21), YV2AMM (28). U.S.A. records were set by W8LRL (1.8), K0GU (7), and K1KI (14) who broke the longest standing U.S.A. record on the books set way back in 1970 by WA4PXP.

Eight stations broke the World Multi-Single record in 1982. The score of 9Y4W topped the list with 16.7M points. They were followed by NP4A and FM7CD, two well-manned efforts. The group from RG6G deserves special attention! They (UK2BAS) took down their entire station, towers and all, and drove it by truck to UG6 and put it up again on a mountain-top—quite a feat! The following stations set new Multi-Single records: 9Y4W (SA); NP4A (NA); RG6G (AS); CN8CX (AF).

In the U.S. three stations broke the old Multi-Single record. W4QAW's multiplier helped to edge out KR2N and KX4S for top honors.

The battle of the giants (i.e., Multi-

Multi) involved a careful check of the submitted logs. After it was all done, OH0W edged out EW6V for top honors. Both stations did not just happen to be on the air. Months of planning went into setting up these and other multi-op stations. To show you what is possible on 160, check out EW6V's breakdown in the band-by-band box! OH0W set a new multiplier record of 917—Wow! VP9AD finished third in their category. They almost pulled off a surprise victory. In South America the boys with the abbreviated call sign HC0 did quite a job and finished fourth. In the U.S., N2AA pulled out all the stops to beat runners-up W3LPL and K1OX to win the Multi-Multi hat.

When you have the right experience and location you can make 5 watts sound like a kw. That is exactly what TG9GI did in setting a new all-time QRPP record of over one million points! Germano looks to the sky in thanks in his photo. Both DF4RD and UB5UCJ finished second and third, respectively, in the world.

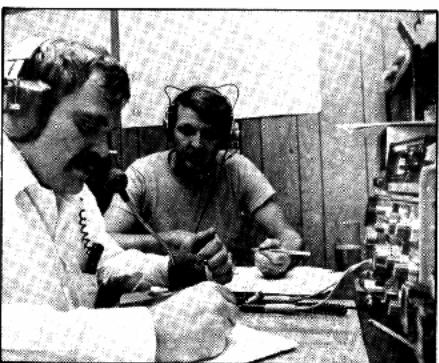
This year there were lots of rare places on the air. Those fellows who made the contest much more exciting by traveling far and interesting places were: OH0W, RG6G, EW6V, VP9AD, W8OK/VE2, 8P6KX, 8P6J, K6OJ/C6A, ZF2FL, HH2WW, N1GL/6Y5, VP5KP, K4IIF/KV4, DJ6QT/CT3, VS6DO (K7TI), 9K2BE, 9N1WW, 9Y4W, FO0JO, T32AF, AH0B, AH0AB, 9Y4VT, 5W5DM, 4T4O, VP2EC, V3DX, VP2VDH,

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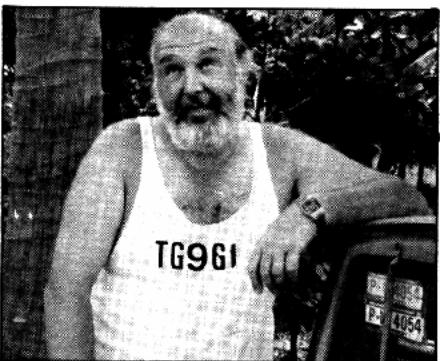
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OK2PBM, magazine in hand.



VE5GF and VE5MC (in the background).



TG9GI—new record QR^Pp!

ZF2GH, HH2CQ, FM7CD, NP4A, VP5B, J20DU, GD5CGV, 4U1ITU, GJ5EOV, and HB0BHA. We thank you one and all.

All of the logs were checked, and most scores were changed usually to a higher score. People still forget to count UK1N (UN1), IT9, GM (Shetland), and JW (Bear Island) as separate countries. Remember that the DXCC list plus the WAE country list are what we count. Remember to send in a check sheet if you make over 200 QSO's in a band. There is a new winner box this year: High Single Operator All Band by Zone; hope you like it!

The fellows you can thank for hours of hard work in tabulating the scores are: K1AR, K2SS, K2VV, KR2Q, N2AA, N3ED, AD6C, N6SV, K6NA, N6CW, N6AW (Jan, a new member), W7EJ, and K9DX. Thanks also to W1WY and K2MGA for their suggestions and help.

Congratulations to all the winners and we hope to see you all as entrants in 1983!

73, Bob, K3EST, and Larry, N6AR

PHONE TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BAND

World

HH2WW (Opr. Austin Regal, N4WW)

Donor: Bill Leonard, W2SKE

World QR^Pp

Germano Bezzina M., TG9GI

Donor: Adrian Weiss, K8EEG/O

U.S.A.

W1ZM (Opr. Jeffrey T. Briggs, K1ZM)

Donor: Potomac Valley Radio Club

Canada

David William Dudley, VE3BVD

Donor: Jack Baldwin, VE7RG

Carib./C.A.

William J. Ovca, Jr., N1GL/6Y5

Donor: Jim Nieger, N6TJ

Europe

Tine Brajnik, YU3EY

Donor: Thomas J. Peruzzi, Jr., W4BVV

Africa

Walter Skudlarek, DJ6QT/CT3

Donor: Gordon S. Marshall, W6RR

Asia

A.N. Karamyan, UF6CR

Donor: Japan CQ Magazine

Japan

Tadao Katsuta, JH7DNO

Donor: Palm Garden Contest Club

Oceania

R.M. Luther, VK4VU

Donor: Northern California DX Club

South America

Jorge Cangas, EA4LH/CE3

Donor: David Novoa, KP4AM

SINGLE OPERATOR, SINGLE BAND

World—14 MHz

Raymundo Rodriguez Diaz, YS1X

Donor: K2HLB Memorial

(No. Jersey DX Assoc.)

World—21 MHz

AHBAB (Opr. Masato Hata, JA30DC)

Donor: Lee Wical, KH6BZF

World—3.8 MHz

Randall F. Sobol, KH6XX

Donor: Fred Capossela, K6SSS

USA—14 MHz

Thomas Frenaye, K1KI

Donor: So. California DX Club

U.S.A.—28 MHz

W6YA (Opr. Thomas Hoyne, N6NI)

Donor: Donald Thomas, N6DT

U.S.A.—3.8 MHz

Clarke Greene, K1JX

Donor: Arnold Tamchin, W2HCW

Canada—21 MHz

John Sluymer, VE6OU

Donor: Gene Krehbiel, VE7KB

Carib./C.A.—21 MHz

Perry Brittain, VP2MR

Donor: KP4ES Memorial

(Pedro Piza, Jr., NP4A)

Europe—28 MHz (Zone 14)

Jorge Alemani Sanz, EA3AIN

Donor: A.G. Anderson, GM3BCI

Japan—21 MHz

Masanori Kawakami, JR1CBC

Donor: DX Family Foundation

South America—28 MHz

Sergio Giacomo Pontoni B, YV2AMM

Donor: Rafael Ponce de Leon, CX3BR

MULTI-OPERATOR SINGLE TRANSMITTER

World

9Y4W (Oprs. WA3LRO, N3ED, KA3E, KB2XZ)

Donor: Don Wallace, W6AM

U.S.A.

W4QAW (Oprs. W4QAW, K3EST, K3RV, W3ZZ, N4RP, W4BVV, Fara)

Donor: Theodore Pauck, Jr., K8NA

Canada

VE1DXA (Oprs. N1CIX, VE1AIH, VE1BSE, VE1CEG, VE1CER, VE1FH, VE1MX, VE1YX)

Donor: Calgary Amateur Radio Assoc.

MULTI-OPERATOR MULTI-TRANSMITTER

World

OH9W (Oprs. OH2BW, OH2BNP, OH2BQS, OH2JA, OH2BBM, OH2BU, OH2MM, OH2BH, OH2BAD, OH2BCP, OH2BBR, OH2BAZ, OH2BEJ, OH2KI, OH2VB, OH1MA, OH1XX, OH1NM, OH5UX, OH5LF, OH5NZ, OH5KS, OH3YI, OH3ZE, OH3UU, OH8SR, OH6DX, OH6UM, OH6JW)

Donor: Radio Club Venezolano

U.S.A.

N2AA (Oprs. K2GL, K2GM, K2SS, K2TT, K2TW, KR2J, KR2Q, K2NG, K2BQ, K5NA, W2RQ, N2CTV, KC2X, KR2W, KU2M, Greg.)

Donor: Dale Hoppe, K6UA

Europe

YT4I (Oprs. YU4GD, YU4CF, YU4VFF, YU4WCA, YU4WST, YU4WCW, YU4WMM, YU4WEU)

Donor: Bob Cox, K3EST

CONTEST EXPEDITIONS

World—Single Operator

VS6DO (Opr. Alastair N. Couper, K7TI)

Donor: Stuart Meyer, W2GHK

World—Multi-Operator

EW6V (Oprs. UP2OO, UP2OU, UP2BBT, UP2BCT, UP2BDF, UP2BFI, UP2BFL, UP2BFN, UP2BJK, UP2PAV, UP2PBW, UP2PCI, UP2NK, UP-038-1050)

Donor: "The YASME Award"

U.S.A. QRM

Another big year on 10 meters—band was fantastic for multipliers . . . K4GFH. Forty and 80 conditions were super, but other bands were a big disappointment . . . N4AJZ. Seventy-five meters sounded like 20 meters first nite . . . KD4UH. Is the legal limit 5 kw in some QTH's? . . . K4BAM. Working FB8WG on first call . . . WB4FTU. Best contest JA opening in years . . . KV4P. Did the woodpecker eat 10 meters Saturday nite? . . . WB5YOT. Too many of the DX stations not signing—working call areas, etc. . . . W5OB. A big kudo for nice turnout from CE gang . . . N5HB. First time in 10 years I've done a serious CQ WW. Great contest! . . . N6BV. Worked all telephones in Amador county . . . W6YKM. Very educational! Especially after 42 years out of ham radio and DX. Thanks! . . . NG6W. Geomagnetic storm blocked polar path from W6 on 10 meters. OH0W came crashing through anyway . . . WB6MBF. Please send JA some dupe sheets . . . NI6W.

Everything worked for a change—good Test . . . KR2N. Called CQ on quiet 10M band, then VU9, A4X, EI3, GI3 in less than 2 minutes . . . K2ITG. Way too many U.S. stations outside band on 40, 75 . . . KA2CDJ. Condx on 160 excellent . . . W4QAW. Murphy hit us this year. Lost SB220, MLA2500, plus bad line noise . . . N4ZC. Accidentally worked Canada on dummy load . . . N5DXQ. Duping computer crashed three times . . . KA7MDM. Not a bad effort for confirmed c.w. ops . . . KS8S. Wonder how other YLs did during the Test? . . . KM7E. European openings getting more spotty . . . W7FGT. Bands were great the week before the Contest—what happened? . . . K7LXC. The various "woodpeckers" make it challenging—ugh! . . . N7AM. Poor conditions especially over the Pole. Sign of the times? . . . W7KSA. Went from two to three elements on 40. Still not enough! . . . W7XN.

Biggest thrill? No TVI complaints! . . . WB8VPA. DX should I.D. more . . . KC8JH. By now the football fans at Ohio State are used to seeing our antennas rotating above the stadium during games! . . . W8LT. CQ WW—the world's most demanding contest . . . KB8FJ. After 58 years of radio there are no more "thrills," but the WW is always fun . . . W8YGR. No time to operate—getting ready for Heard Island . . . K8CW (Thanks, Al—ed.). The non-stop calling on 75 meters hurts all of us, fellows. Time to evaluate our methods? . . . K8MN (Amen—ed.). Snagged #161 on 160M. Thanks to all for another great Test . . . W8LRL. Conditions so poor on 10/15, even the woodpecker went to 40! . . . KE9A. Everything was normal—still connecting the beam coax when the Test started . . . K9GM.

Spent Friday putting up a new 75M vertical. Neither it nor I worked too well Friday night . . . K9QXY. Being a dentist, found myself giving advice to a Canadian DXer who was suffering from a toothache! . . . KC9MF. My computer dupe/QSL program was written by a 13-year-old student of mine . . . WA9BZW. As a policeman I'm usually too busy working Halloween to allow time for the Contest . . . K9YAX. As usual, CQ WW was "the greatest" . . . KK9A. Those "double multipliers" sure feel great . . . W0UA. Never heard OH0W. Where were they? . . . W0IYR. If you think it's tough from home, try it in your car! . . . KD0U/m. Refreshing to hear more courtesy this year . . . W0BWJ. Took a break Saturday long enough to pluck a BY1PK QSL out of the mailbox . . . W0ZV.

Finished DXCC on 40M . . . WB1EAZ. Great way to snag new ones for CQ DX Awards . . . K1VHS. No soap box, it is never printed anyway . . . K2NJ. Eleven trips up tower to turn beam (son cut cable with lawn mower!) . . . WA2SPL. Good Contest! Is it over already? . . . N1API. Working ZD9YL on first call . . . KB2WN. Having all equipment work for a full weekend . . . N2BLT. Hard to operate—expecting first baby this weekend. Potential DXer Christopher born 4 November . . . KT2M. My first! Great fun . . . WA2SSH. It's been a long time . . . N3RS. Contest theorem #101: antenna put up day before always works well . . . K3ZJ/1. I just followed N6RO around . . . K19A. Increased my total to 199 with one watt . . . K7BTB. 160 fabulous—worked 23 countries in two hours . . . K1ZM. Great 160M opening . . . AA2Z. Biggest thrill was working the KA's in zones 3, 4, and 5 during JA openings . . . N2LT. Being notified by EA7TH Friday night that I had won the Seville DX Contest . . . W3BGN.

DX QRM

Lots of fun and new countries—one of the best contests . . . DL0TR. We really enjoyed this contest. The greatest contest on earth . . . EA7TH. Really enjoyed our first try at Multi-Single CQ WW DX Phone; we'll be back next year! . . . GB2AL. This DXpedition was specially planned and made for the CQ WW DX Contest . . . GD5CGV. Enjoyed beer and propagation . . . HB9CAT. What a beautiful feeling when hard to copy JT1AN answered on 40! Bad condx and a lot, a lot of QRM! . . . YZ4M. First I ever worked a bicycle mobile (WA4YDR) . . . OA8CW. Being DX for a day . . . VE3CKR. A lot of smoke and fire, a lot of ice-up and broken antennas. Had a great time! . . . RG6G. The most equipment failures in my contest life . . . RK3ABO. Thanks for FB QSO's . . .

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CIRCLE 54 ON READER SERVICE CARD

September 1983 • CQ • 19

UP2BBF. Best wishes from Western Siberia . . . UK9UAA. We thank CQ for the good contest! . . . UK0AMM.

More than 100 watts only makes QRM on 160M . . . EA9EU. Where were the Africans? . . . ZS3HL. Never lose a good slot—elbowing your way back can be rough going . . . ZS6BRZ. Last contest operated was 1969 CQ WPX SSB from ZD8AR . . . ZS6WB. Scoring inequalities give little incentive for S.E. Asians to attempt any major efforts . . . VS6DO (Opr. K7T). VU9 was a special prefix to commemorate the 9th Asian Games in India . . . VU9AJ. Enjoyed listening to the great op at VP5B . . . N2BZQ/4X. Israeli amateurs now have permanent permission to work 160M . . . 4X4NJ. Now I know what it is like on the other side of the pile-up; Ruff!! . . . HL9AZ (Opr. KA4NCZ). Best we can do, as Sat./Sun. are working days . . . 9K2BE (Opr. G4BWP). My first time in any major contest . . . YK1AO. My latest antenna design gave me the best score in any contest I have entered . . . VE1TG.

Worked KX6OB at 8 AM local time (full daylight). Tnx for your patience OM . . . VE1LI. Coffee and aspirin stock must have gone up; I invested heavily . . . VE1BNN. Condx awful on 15M . . . VO2CW. Comments and queries regarding my VD prefix could fill a book, hi hi . . . VD3GCO. Thanks to W's for points . . . VE3BMV. Can't remember working so hard for so little results . . . VE4CCC. Artic path extremely poor for those of us in northern latitudes . . . VE7CVM. Never heard pileups like this on 160M before . . . VE7BS. This was my first "DXpedition." What fun! . . . FOOJO (Opr. W6GO). Big thrill having JT1AN call me in JA pileup . . . K6SVL/KH6.

The hurricane was a nuisance . . . AH6BK. My first CQ WW DX Contest; I will do better next year . . . YC2BSF. Fun for the first 24 hours, but not so the second day . . . T32AF (Opr. KH6UR). Experience of last year and this year gave me a conclusion that the maximum number of JA's workable from DX on one band during a contest is about 3500. JA's aren't a limitless resource . . . AH0AB (Opr. JA3ODC). Amateur radio contest operating should be considered for the Olympics . . . DU1CPL. I used an Echo II Voice Synthesizer and had no microphone hooked to the rig—quite an experience . . . KH6GMP. First fone contest for a dyed-in-the-wool CW operator . . . KH6JWK.

Could hear V3DX for hours on 40M but no contact . . . VK3SM. A long wire's a poor substitute for last year's 5el Yagi on 20M . . . VK1RJ. Went all weekend with only one TVI complaint—my own! . . . VE3EEW. My very first contest and did I learn lots! . . . ZS4GL. Amused to work an American station mobile on a bicycle . . . ZS5IV. Action-packed 48 hours . . . ZS6AF.

Contest conditions very poor first half of contest. QRM from snowmobiles terrible . . . VO2WL. Our participation in contest was to honor a distinguished local radio ham, XE2PL, Jose Podolsky, who passed away one year ago . . . XE2CNL. Had great fun. Contest QTH near lake in Africa; the bugs ate us alive at night . . . ZS6PT. The intensifying magnetic storm made this try a flop . . . JW5VAA. All stations were worked between 21,150–21,200 MHz because EC's (Novice operators) only can transmit on this part of 21 MHz . . . EC4AVC. Lots of fun from the other end . . . G5CFJK6PU. Sunday was frustration day with S1-2 signals from the USA; so you could just hear the pile-ups the guys in the Mediterranean had . . . DK1FW. We are only allowed to work on one single frequency on 160 SSB (1.835 MHz) . . . DK8NG. Very variable conditions, and you could find the craziest propagation paths . . . LA8DY. Very strong aurora Saturday and Sunday evenings; made it very difficult in long periods. Nevertheless, great fun! . . . LA7JO. My first CQ contest. I am in ham radio only eight months. Thirty-nine zones confirmed and about 185 countries . . . CT1BWY. A mere eight USA contacts is no fun . . . SM0BDS.

STATION OPERATORS

Multi-Operator Single-Transmitter

AE2E & KA2AN: KA2QJP, WA2KRO. **AIBS & KB8IZ**: KB8QS, KC8KO, W8CY. **AB0I & N7DF**, K0RWL, K0UAA, K0UR, KB0PR, KB0U, KB0WD, K0CL, KJ0D, KM0L, W8JLC, WA0TKJ. **AK0M & KB0V**: KC0RD. **CE2AA**: CE2MH, CE2HH, CE2BN, CE2MM, CE2DW, CE2CW, CE2CA, CE2DAM, CE2BMV, CE2D0V, CE2DC0N, CE2BN, CE2HN, CE2CM, CE2DW, CE2EO, CE2BY, CE2DQE, CE2BMM, CE2CAR, CE2DMZ, CE2OP, CE2HH. **CE2PA**: CE3RR, CE3CMW, CE3AJ3, CE3AQO, CE3CTF. **CE5CJA**: X05B1B, X05BVY, X05CFR, X05CIE, X05CNT, X05DVS, X05DRD, X05EOT, X05EMZ, X05SG, CN6CX: CN8CX (K4BF), CN8CY (G3GQJ), CN8CQ (W3EMH), CN8UE (WS4AXX), KE4XH.

DF0SI: DF6C2, DL1MAR, DL8MB5, DF3BY & DF3GN, DJ&U, DK5GV, DL2GBT. **DK0DL**: DF1NH, DK5QL, **DK0DX**: DL9NC, **DK0HX**: DF3OL, DF9YY, DK3RG, DL80M. **DK0MM**: DJ7K, DK9FS. **DL8DC & DL1VF**, DL8CH, DL8CM, DL8FR, DL8HA. **DL0ER**: DF2EY, DH1FE, DJ6QF, DJ600, DK8JL, DL1MT, DL8EAD, DL9EAP, DL9ON. **DL0HQ**: DJ7YY, DK2VO, DL7DA, DL7JP, DL7KT, DL7LA, DL7RT, DL7SP, DL7YC, DL7ZL, DL9GI. **DL0TR**: DF1AL, DF4P1, DF5PK, DF6PK, DF7PK, DF9PG. **DL1UE**: DF20A, DF3AV, DK1II, DJ5FT, DJ7MG, DL3LU, DL50L, DL7V1, DL8RL. **EAC2RCI & EA2AKC**: EA2AZW, EA2TH & EA5BRA, EA7CEC, EA7CFW, EA9EO, ED3CB: EA3BOW, EA3BOX, EA3CVA, EA3DDU. **ED6MDX**: EA6JW, EA6JZ, EA6KZ, EA6MQ, EA6MR, ED9CM: EA9FN, EA9GS, EA9HE, EA9HY, EA9IE, EA9JE, EA9JV, EA9KF, EA9KN, EA9QK, EA9SL, EA7BMZ.

F3TV: F6ARC, F6BEE, F6IE, F6CTT & F6HRP, F6BDN. **F6GDK-p & F1GHS**: F6ASS, F6BPX. **F6KAW**: F6B80, F6CWN, F6D2S, F6EBN, F6EPY, F6FLV, F6GWW, F6IFR. **F7MCD**: F7MCD, F50E, N6ZV, K6YRA, KJ6F, W6TJI. **G5YC**: G4GSP, G4GWR, G4JGX, G4LXT, G4MLM, G6IHA, GB2AL: GM3RAO, GM3WOJ, GM4BYF, GM4C0X, GM4CX, GM4FDM, GM4IGS, GM4NFC, GM4NFI, GM8YJU. **G05CGV**: DF7FH, DL4FF, D14MWA & G4B6H. **GJ5EDV**: WA3NGL, WA4WPO. **GW4BRS**: G4DZE, GW4JOG, GW4MOZ, GW610A, GW6LCU, GW6NVN, GW3ZY & SWL's.

GBJC: G3DEF, G3RMF, G3TQD, G3TZQ, G4FWR, G4TKW, G4LUB, G4NEC, G4NRD, G4OPD, G8AS0,

G8NWR, G8TIC. **HA1KZH**: HA1ZZ, HA1XO, HA1ZN, Mihaihy. Horwotz. Zdkalajai. **HA2KMR**: Kiss, Peli, Eder, Juhasz. **HA2KMK**: Istvan, Tibor, Szilard. **HA3KNA**: Szabo, Hudank, HA3NS, HA3NU, Kisantal. **HA5FK**: Janosi, Molnar, Hadamsik. **HA5KS**: HASKV, HASPI, HA5LC, Dezsi, Fekete, Koszegi. **HA5KKC**: HA5MA, HA5VL, HA5MD, HA5MO, HA5UM, HA5KP. **HA6KND**: HA6NO, HA6NF, HA600, HA6NN, HA6NQ, HA6NY, HA6ON. **HA7KRK**: Szekely, Taskal. **HA7KSR**: HA7PQ, HA7PL, HA7SH, HA7SQ, HA7UG, HA7V. **HA8KUC**: Szabo, Nemeth, Varga, Ceszki. **HA8KA**: HA8MF, HA8JM, HA8GF, HA5ML, HA5WE, HA5LN, HA5LZ, HA5HO, HA5UA, HA7SU, HA7RY. **HB6V**: Simon, Szuszler, Varga, Laki, Macsuga, Makrai. **H44R**: H44DX, H44SH. **HB9BHA**: DF9Q, DH9NAP, DJ2EH, DK7NM, DL5NP, DL8NBH, DL9NAP, HB9BHA. **HB9CAT**& HB9AGC: HB9LG, HB9ZL, HB9C2. **HMC2**: K4JPD, W5VUX, N4DVW, HH2MC.

I8N & I0IFG: I0RUM, I0VBT, I0ZOB, I0ZUT, I16JC & I1AHF, I1DIE, I1DSG, I1GUS, I1PCP, I1RBP, I1UUL, I1WWG. **I5MWP & I5KBS**: I5MPN, I5MXX, I5NPH, I5SDG. **I03MAU & I3BYT**: I3DYG, I3EVK, I3IFY, I3GNX, I3GOU, I3ON, I3VTO. **I04SS & I1JMF**: I4KJD, I4OUT, I4YNO, I4ZNU, I4WAPD. **I05OYY & I5NSR**, I5NXH, I5VXG. **I5YUJ & I5DTK**, I5BYR. **J2BDU**: W6K, W6Q. **J1AY1D**: JE2QIZ, JR6JOE, J9HADA. **JAY4FH**: JG3HC1, JG3J10, JR4TKR, JH4UD, JF3GPS. **J46YBR**: JE6FOE, JE6UXS, JF6BNH, JF6DEA, JF6DQ. **J46YCU**: JASUIM, JU6IQI, JF6FMZH, JH6XYR. **J46YD**: JA4YLW/6, J6EPSL, J6VFJ, JE1TAW/6, J6ESWF, J6RBZ, J6RGN, DR6PKJ, J6R0HK, JR6OPB, JE6LWM. **J47YAB**: JH7AJ, JH7CUU, JH7IHR, JH7MAJ, JH7XJN, JH7C0I, JH7SSJ, JE2D0C, JH7KJ, JH7YK: JE7HLZ, JH7HMS, J7R5ZJ, J7RTT. **J47YCO**: JH7IMX, JH7UGG, JH7M2C, JF2GJD. **J47YFB**: JI1GXJY, J7R0ZF, JH7XMO, J7R1CI, J7RJVO. **J48YCX**: JH8CLU, JH8DIY, JH8RTZ, JH8SN1. **J49YBA**: JK1PAO, JA9LNJ, JA9OTX, JA9OEE, JA9RJL, JA9UD. **J49VBW**, JH8HUU. **J61ZYU**: JG1ILF, JG1MM, JI1OOI, JR2UNY, JH7PKU, JA6-9330. **J3YJM**: JA3BAG, JA3MMQ, JA3XGF, JH3FJG. **JH7YJF**: JA7DWU, JH7NHE, JH7LRS, JH7PNL, JR7QKR, JH7FEK, JH7NV, JH7XWT, JH7GJL, JH1PYU: JA8CZW, JH1PHR, JE1RFP.

K1CC & K1GX: K1TO, W1GNC. **K1NG & K1IG**, K1IAW, KJ1N, N1VH, WA1TF. **K1GG & K1KJ**, W1KM, WA1OEZ. **K1RE & N3MC**: K1B0 & K1DD, K1NYK, KA1VC. **K2CC & K1WZ**, WB1AFZ, AB2L, AD2Y, KA2KD, K12H, K2F1 & W3S0H. **K2ITB**: N2DEM. **K2CK & K2PZ**, KW2D, W2AUYM, **K2D** & **K2B**, K2K2N & K1EB, KITA, KB1H, N1EE, N1XZ, K02M, WB2WH, WB21TR, WB2PVW, K3H & K3B3E. **K3TP & K3USC**: KB3A, KB3X, KJ3M, K3B3J, K3B3L, WA3UCS. **K3BIX & W3F1Z**, **K3AJ & W3B3JU**, K13I & K1CQM, K3B3V, KD3H, K13K, K3S, N3ANW, N3BPF. **KX4S & K3RZK**, K4W4N, N4ND, W4D4R, W4MYA, WA4HOT, WB4BUY, WB4IMC. **K5WY & K5DBI**, K5WY & W6V00, K5MK5, KM5R, KY5VN, K5P6, N5B05, K6SG & KV6H. **K6P0D & K6Z2A**, K6P0D & W6V00. **K7GE** & W7BPN, **K7M0M** & W7RTPR. **KC7EY & K7ZSD**, **KBEPV**: AC8W, K8DD, K8JLB, K8AMX, K8APL, K8KBN, K8JA, N8BKO, N8CJX, N8D8I, WB8SS. **K4BLF & N8BYV**. **KF8X**: WD80FQD, WD8QWD, K58S & AD8P, K8NZ, N8ABL, W8CAR, W8FN, W8SAE, K9B1L & N9CPW, WB8N0V, K9CJG & K9LWT, KB8US, N9BQ, SM7DZT, WB9AU, WB9UAI, WB9UAI, K9EC & K9CQF, KB9Q, KC9NN, WA9PAM, WB9YUH, KB9K & WB8GU, KB9Z, KI9U, KN9C, WB9RCI. **K08M/B & K0C9N**, K9C9Q. **K0FU/9 & K9HWU**, N9BYL, WD9SS. **KJ03Y & W8WP**. **K0PKP** & WA2HFI. **K0UK & K9MW**, KABBAD, K0LRW, N0AFO, W0KEA, WA0BBL, W0B0F0R, WB0ITG, WD0ASB. **K0BF& K0IRN**, K0CKK & W0EAN. **KL7Y**: AL7ON, AL7H, KL7EC, KL7Y, NL7G, NL7P, WL7E. **KM0P & KM0R**, N0DWC, W0BHB, WA0LT. **LA1K**: LA1JJ, LA6IBA, LA6JBA, LA6MP, LA6MV, LA7VV, LA9MW, LA9UX. **LA5C**: LA1JBA, LA2G9, LA9GX, LA9ZV. **L65LG**, LA1WQ, LA4DC, LA8UO, LA8WU. **L6U4D**: LU4DP, LU1DFO, LU4DCK, LU4UF: LU5FGG, LU2FFD, LU8FEU, LU1FJH, LU1FJU, LU6FDK, LU2FA0, LU8FP, LU4FDV, LU5FBG, LU8FDZ, LU9FFJ, LU2FDR, LU1FK1. **LZ1K0Z**: Mishi, Stefan. **LZ2KSB**: Metin, Lyubomir.

N3ARK & KB3MM, **M4BS & KA4ADF**, KA4ZKI, KA4ZRS, KC4TX, N4ERR, WA4GHO, WA4UIV, KA4TFC. **N4KG & K4JN**, N4BZ & N4AS, N4AV, K4NNY, K4NVE, N4UU, NSTR. **N04I & W1UA**, N4OK, KA4KMH, KA4MNS, N4DPI, N4UY & W3AUBA, KA4JMU, KF4S, KW1W, N4GPN, N4HCR, N4HGB, N4UF, N4F, N0J, WB4KSP. **N5DX0 & N5EI**, N6SE8 & WDE6WE. **N5OJ & A6EH**, AF6F, K6ANP, KA6JHM, KB6HT, K6DG, K6KX, N6LBN, N6CJ1, WB6NBR. **N7R0 & A17P**, KATAUH, W7EKM, WA7ZWG, WB7CLU. **N8CSL & K4BMLA**, KB8WC, N8BDM, W8DVL. **N9AKE & K9QBL**, K9LUW, K9AHC, K9AKDZ, K9LDS, KC9J, KC9LP, N9AG, WB9YR, WB9GIG. **N9GB & K9SKD**, KB9Y/W, KC90A, W9QD, WB9RGA. **N9EEN & K4G6LS**, KAB9O, KAB9U, KAB9MZN. **N9XA & X08A**, AE8K, K0CS, KB0X, WB0UXI. **N9PA**: K5ZD, K5TM, K5GN, NP4A, N4T0, KP4CC, KP40, WP4CB.

OH1AF: OH1S, OH1CN, OH1HE, OH1HS, OH1LA, OH1XM. **OH3AC**: OH3BO, OH3SF, OH3ST, OH8MV. **OH4MI**: Kari, Seppo, Risto. **Risto**, OH5BM & OH4NB, OH5LP, OH5UQ. **OH6AC**: OH6CS, OH6SM, OH6WZ. **OH7AB**: OH7PF, OH7UE, OH7VR, OH7XI, OH7XW, OH7YH. **OH9AB**: OH9NV, OH9PH, OH9UW. **DK1KPX**: OK1FKA, OK1TA, OK1TN, OK1-19668. **DK1KRB**: OK1AD, OK1ALW, OK1AWZ, OK1DWA. **OK1KS0**: OK1EZ, OK1JCW, OK1JB, OK1JWA, OK1WT. **OK2KYC**: OK2BSK, OK2BUC, OK2SMO. **ON4AWC**: ON4BB, ON5JE, ON5KH, ON6K, DN6DK, ON6TG, ON6Y. **022PZ/A & 025K6**, RG66: UG5AI, UP2BAU, UP2BHW, UP2BPK, UP2-038-794. **UK2BXB**: UP2BCO, UP2BCW, UP2-038-1643, Shal. **UK2BBC**: UP2BDW, UP2BHK, UP2-038-346. **UK2FAA**: Club, UP2BDL, UP2BPL, UP2B2P, UP2B3P, UP2B4P, Alex, Slav. **PI1GOE**: School pupils. **UK3ABO**: RA3ANG, UA1ODP, UA3AGW, UA3AMB, UA3AP, UA3ANG, UA3DME, UA3MDO, UA3MDS, UA3MDS, UA3NG, UK3TB: Andrei, Sergei. **UK3WAF**: Club, **UK3XAB**: Club, **UK4ACE**: Club, **UK4CCC**: EZ4CCB, UA4CCB, UA4CCB, UA4CHU, UA4CIB, UA4-152-416, UA4-152-1069.

UK4HAW: UA4HAD, UA4HBR, UA4HCV. **UK4LAA**: RA4LBZ, UA4LBE, UA4-164-259. **UK4SAM**: Club, **UK4WAA**: Club, **UK4WAB**: Club, **UK5CAO**: Club, **UK5EA**: UB5EDX, UB5-080-86, UB5-060-2518. **UK5EEA**: Club, **UK5EW**: Club, **UK5GW**: Club, **UK5HAB**: UB5HEW, UB5-071-73. **UK5IBB**: UB5JK, UB5INI, UB5IML, UB5IOM, UB5IP, UB5IQS. **UK5ICX**: Club, **UK5LAS**: Club, **UK5LAX**: Club, **UK5LB**: UB5LNS, UB5LNU, UB5LPZ. **UK5MFA**: UB5EC, UB5EM, UB5MB, UB5MBY, UB5MCD, UB5MNO, UB5MOP. **UK5MFB**: UA3ZIL, UB5MEI, UB5MLX, UB5MNN, UB5MNY, UB5MNM, UB5MNO, UB5MUV, UB5LK. **UK5MBO**: Club, **UK5MCK**: UB5MMG, UB5MSF, UB5MS, UB5MTB, UB5-059-454. **UB5-059-456**, **UK5MCO**: UB5MPN, UB5MRO, UB5MTS, UB5-059-11. **UK5MCP**: EZ5MDL, RB5MST, UB5MPD, UB5-059-197. **UK5MD**: Club, **UK5MEG**: RB5MVB, UB5MAQ, UB5MRB, Victor. **UK5QB**: Club, **UK5UDX**: UB5XC, UB5-065-734. **UK5VAT**: RB5VDK, UB5VQAQ, UB5-066-391. **UK5WBG**: UB5MBW, UB5MCW. **UM8PAC**, UMB-036-141. **UK9ADS**: Club, **UK9ADT**: UA9AIS, UA9AJD, UA9ALP, UA9AMU, UA9AOA. **UK9CA**: UA9CCT, UA9CLT, UA9CNF, UA9C00, UA9-154-21. **UK9CEA**: UATAC, UA4WBV, UA9CTW. **UK9FER**: UA9FAJ, UA9FAL, UA9FAR, UA9FGJ, UA9FGR, UA9-140-121. **UK9FF**: UA9FAT, UA9FDL, UA9-140-1109. **UK9LEZ**: Serge, Sam, Gary. **UK9OA**: UF6-014-74, UF6-014-91, UF6-014-100. **UK9XAA**: Club, **UK9FAP**: UA9AKO, UL7FAF, UL7FCB, **UK1LAA**: EZ7LAA, UL7LEG, UL7LEN, UL7LER. **UK7NAO**: UL7NAC, UL7NAJ, UL7NCF. **UK7PAL**: UL7PAE, UL7PLB, UL7PYB, UL7PCZ, UL7PEZ, UL7-023-202, UL7-023-434. **UK7RAB**: Club, **UK8MAF**: UM8MBW, UM8CWQ, UM8PAC, UMB-036-141. **UK9ADS**: Club, **UK9ADT**: UA9AIS, UA9AJD, UA9ALP, UA9AMU, UA9AOA. **UK9CA**: UA9CCT, UA9CLT, UA9CNF, UA9C00, UA9-154-21. **UK9CEA**: UATAC, UA4WBV, UA9CTW. **UK9FER**: UA9FAJ, UA9FAL, UA9FAR, UA9FGJ, UA9FGR, UA9-140-121. **UK9FF**: UA9FAT, UA9FDL, UA9-140-1109. **UK9LEZ**: Serge, Sam, Gary. **UK9OA**: UF6-014-74, UF6-014-91, UF6-014-100. **UK9XAA**: Club, **UK9FAP**: UA9AKO, UL7FAF, UL7FCB, **UK1LAA**: EZ7LAA, UL7LEG, UL7LEN, UL7LER. **UK7NAO**: UL7NAC, UL7NAJ, UL7NCF. **UK7PAL**: UL7PAE, UL7PLB, UL7PYB, UL7PCZ, UL7PEZ, UL7-023-202, UL7-023-434. **UK7RAB**: Club, **UK8MAF**: UM8MBW, UM8CWQ, UM8PAC, UMB-036-141. **UK9ADS**: Club, **UK9ADT**: UA9AIS, UA9AJD, UA9ALP, UA9AMU, UA9AOA. **UA8QBB**, UA8QCA. **UA8SAV**: UA8SMM, UA8-124-490, UA8-124-491, UA8-124-502.

V3DX: V3DX (N6AD1), V3CQ (WA6VNR), V3J (KA7EST), V3C, V3JHK. **VE1DXA**: N1C1X, VE1AIH, VE1BSE, VE1CEG, VE1CER, VE1FH, VE1MX, VE1YX. **VE3CYX**: VE3CKF, VE3CY, VE3FRA, VE3ICR, VE3MMB, VE3MFP, VE3WT. **VE3PCA**: VE3MHI, VE3JDO, VE3CRG, VE3KK, VE3ZP. **VE56F**: VE5ADA, VE5AE, VE5AEJ, VE5AGA, VE5ACM, VE5MC, VE5GF, VE5OY, VE5XK. **VE6AO**: VE6AMR, VE6CH, VE6CCX, VE6COG. **WB2VHD**: NP4CC, PK4BZ, N6CW. **WB2WV**: N4KE, N4CC, N4BAA, W4FAB, W4BEYX, WA4DRU. **WP9IB**: WP9IB, N5UR, K5PP. **WB1ELC & K1FWE**: W2BHK & K2ZSY, KD2T, W2NM. **W2H0 & W2LOG**, WA2PH, W2U1 & N3KR. **W2VJN & K2BZM**: N2BA, WA2ZKY, N6BZA. **W2YC & N2CQ**, W2VY & K2EK, K2XA, N2NT, K3UA. **WB3DJF & A3AB**: W4QAW & K3EST, K3RV, W3ZZ, N4RP, W4BVW. **Fara**, WA4MOJ & WA4MOJ.

KC4ZD, JW4I, WA4L, WB4TVQ, WC4E. WA4QQV & N4AOC, WA4QMQ, WB4FLB, WD4MDY, WD4PAJ & WD4RAD.

WB5COV & WA5IPS. WB6B & WA6IOM. W6BIP & WA6DJJ. W6OAT & WB6GFJ. W6UA & W6UM. WB6GFJ W6DAT. W7RZ & K7XX. KE7V, WB7Y0Z, WB7FFF. W8UA & K8GL. K8NA, K8SS, N8AJF, W8LU. WA8YVR. **W9UM: KC6ES, KM8C, KT8K, NBCA, WD8PDA, WBDFPS. **WBAMTX**: KABLAQ, KASLR, KCBK, KKBK*, W8YBZ, W8VYZ, WA8VPU, W8SEZB, WB8OKJ, WB8QDM, WB9DUB & K9BN, K9JF, K9UWA, KA9KAS, KB9J, N9AU, N9AW, W9RN. **WB9UFL** & KABJUJ. **WB9VFN**: WA4CHI, KC8KO. **WB9CHW** & WA9PCM. KB8KK, N9BGS, N9DBS.**

Y5CNH: YE5A2RA, YE5E1M, YE5AGH, YE5A0C, YE5GDP, YE5O9, YE5XK, YE5D1, YE5V1.

XE2ZKL: XE2AUA, XE2AFL, XE2AGH, XE2AQ, XE2GD, XE2QP, XE2XX, YI2YK; YI2DK, YI2YK, YI2EK, YI2UK, YI29AK, **UY66AH:** UY2RKN, UY3FK, UY70DA, Gile, UY76TE & YU7MAT, UY7PEE, **Y4M:** Dubo, Ferid, Edin, Nedim, Necko, Ifan, Sandy, Goran, UY4SA, UY4VGT, Deny, UI1TF, Mladen, Davor, Rade, Nedo, **YT1AWW:** YT2YU, YT70RS, YT7UMLC, UY7XPX, Voja, ZF2GI; W4W0Y, W4GIW, W4HR, **ZL2AH:** ZL2AH, ZL2IR, ZL2PV, ZL2AEW, ZL2AOE, ZL2OA, **ZS6BPL:** ZS6BPL, ZS6BIM, ZS6BTY, **ZS6PT:** ZS6PT, ZS6Y0, ZS6BY1.

4D1AU: 4D1AU, 4D1FDY, **4T40:** N6KT, WA6UEF, N6BT, **4U1ITU:** K1DG, K3NA, **4U1VIC:** OE2VEL, WA4EWN, **5W5DM:** KB6JK, SW1DO, **5Y1TU:** 524GM, 524NO, 524CS, YU3TCB, W4KM, **6DV5YC:** XE1VIC, XE1A2E, **6SE5BE:** AA6DP, W6TSE, WL6EN, **6ES5KM:** K6NA, N6ND, **8Y4W:** WA3LR0, N3ED, KA3E, KB2XZ,

STATION OPERATORS

AD3V & W3N3X, W3DRD, W3HB, A16V & WB6EXW, N6KB, AA4KB, EA1YY & EA1EY, EA1KV, EA1PI, EA1XR, EA1ZQ, EA1APY, EA1ASG, EA1ASZ, EA1AXG, EA1BEP, EA1BLQ, EA1BTC, EC1AOW, EC1AWJ, EC1BCG, EW6V; UP200, UP200, UP2B8T, UP2BCT, UP2BDP, UP2BP1, UP2BP2, UP2BP3, UP2BP4, UP2BP5, UP2AV, UP2PBW, UP2PC1, UP2NK, UP-203B-1050, GB4ANT; G3JOC, G3MPN, G3LDI, G3VZT, G3XLL, G3ZIG, G3XBY, GB4TY, G4BAH, G4FNL, G4GVW, G4DRS, G4JOL, G4CSU, G5E6C, G8LBS, G8NGD, G8VLL, HCK: HC5CE, HC5CNW, HC5CW, HC1HY, HC1GZ, HC1EE, HC1JO, HC1RE, HC1PS, HC1HC, HC1EA, HC1SK, HC1RF, HC1H, HC1HN, HC1BI, HC1C, HZ1AB: W7KJQ, K8JJ, WA3MOA, W7SE, W5UJF, W5VYAH, K0SV, VK3BSX, G4FTC, W5J1Z, N6GTK, YI4FGM; J4TJE, I4UFH, I4UXL, I4UYN, I4UYN, I4ZG1, IK4AUY, JA1YNE: JA1CG, JA1BAL, JA1IAM, JA1KGW, JA1VNA, JR1QOG, JA2UGX, JR2BJE, JA3MID, JA4WVW, JA6QDQ, JA1TYXP: R6NJD, JD4H0WC, JJ1OHJ, JL1ROT, JA2YKA, JG16F, JJ1BT, JA1BT, JH2XG, JR2GM, JE2ROT, JE2SRB, JE2TEM, JE2VVM, JF2DQJ, JG2BR, JA4UDP, JH4BVQ, JH6RPZ, JE6GT, JA9FNQ, JA9SSY, JA9XXS, Tam-San, JA3YKC, JA3PRR, JA3VOT, JR3KEG, JE3BLA, JE3MAS, JE3MXA, JF3PMM, JF3RAL, JF3SPF, JF3UNO, JG3EME, JG3IQJ, JG3LLB, JI3ANR, JA4RHF, JH4UIM, JH4WER, JA4BSM, JA5GZB, JA5M0U, JA5THD, JA5XQJ, JH5ML, JR4JNF.

JAY4EB: JA5POE, JH4LGI, JH4NJC, JH4WAT, JH4WEK, JR4CBL, JR4IWE, JR6JZT, **JATYRR**: JA7CEC, JA7CFB, JA7CLN, JA7CLX, JA7CVX, JA7FDY, JA7JUD, JA7LBV, JA7WSC, JA7ZW, JA7RQE, JH7MEV, JH7VHZ, JR7LVA, **JF1ZRD**: JH1CNT, JH1NRC, JH1VPP, JR1NC, JF1CYV, JI1PYD, JH1YTD: JE10MV, JF1EA, JK1COG, JK1DLQ, JK1FLU, JL1GPQ, JL1NNC, JP1AIE, JH4UTP, JE6CEK, JE6HIC, JH0HNI, K10X & K1XX, K1GQ, K1VR, KA1R, KA1VQ, KC1F, KA1UA, W1HZN, W1FJ, WB8BHH, **K1SA** & W100, N1AF, KB1U, KA1GU, **K1XM** & KA1GRH, **K2UA** & N3AD, N3DY, **K3II** & K3NL, WA3IMY, K3JKL, K3JG, **K3ON** & K3ZZ, WA3EK1L, KA3GSN, W3FG, KA3KZB, W83HMX, N3SB, **K3ZFJ** & K3NF, N3BFH, **K4B4I** & K4B4I, N4BGH, WF4F, N4EZB, WG4F, **K4VX** & K8D90, N0SS, KR8Y, WB1IJN, WB8GEV, KABDI, K800, **K6RU** & A6AD, W6WQO, WB8DSV, N6XI, K6XO, **K6ZM** & AK6T, KC6D, NB6L, K9GL & K9NO, K9RS, K9DX, K9HMB, K9PW, K9PPY, WA6DGX, WD9IIC, WB9TY, WA9EYY, WB9CAS, **K6B1** & WB6OTU, A6RXR, N6TR, **KCBSD** & N8PDQ, **KL7CQ** & KL7AP, KL7L0, KL7IW, KL7HFQ, KL7LL, KL7SL, KL7X0, KL7PU, KL7DU, KL7EB, KL7JM, KL7OY, KL7FK, KL7PQ, KL7VB, KL7SA, KL7VC, KL7VT, KL7SV, KL7FS, KL7VN, KL7FB, KL7O6, KL7SE, KL7ZK, KL7H0, W4IGM, WL7AX1, WL7OAF, AL7AW, KL7RA & KL7RN, KL7IEH, KL7LX, NL7M, NL7V, AL7CG, AL7AF, AL7QO, AL7AU, **KP4B0** & WP4CEQ, N2AA & K2GL, K2GM, K2SS, K2TT, K2TW, KR2J, KR2O, K2NG, K2BQ, M5A, W2RQ, N2CTV, KCX2, Greg, KR2W, KM2U, **N2MR**, N2MM, N2ATX, KB3TN, **N3AW** & WA3NH0, **N4RJ** & A4AGA, K4EWG, K4KKJ, K4MX5, K4UEE, KD4VK, N4HH, N4HU, N4OL, N4PN, N4VZ, W4GTS, W4LVM, W4MGX, W8ZF, WA4QOE, WD4AHN.

N5AU: K9MK, K9LA, K8CC, K5TSQ, K5FUV, K5MM, K5HM, K5AQ, K5MR, K5MX, K5QD, N5CR, WB5VSL, WB5WHR, WN4KNN, G4CEB, G3UKS, **N6RD** & N6AUV, N6IG, N6NE, N6OW, N16D, N4ID, K6TMB, K9LBO, K7TW, KN6K, WA6DIL, AA6G, **N6RZ** & WA6OVC, WB5CBI, N6IG, N6VV & K6XV, K6PJY.

W4UCW, W7RM & W7XR, W7ZR, W7TJ, N7ZB, K7GF, K7GD, W7EJ, VE7VS, W8NGO & K8ZE, W8MNL, W8NQA, CK8HX, W8OK/VE & N8BQJ, WBK9F, W9SWM, KB0U, WB5KBZ & K6GSS, YT1: YU4GD, YU4CF, YU4VF, YU4WCA, YU4WST, Y4WCW, YU4WMM, YU4WEU, ZY1E: YU1EW, YU1FW, YU10PI, YU10LO, YU10YA, YU1PKC, YU1UU, YU1PAW, YU2MM, YU7QZC, YU7DQT, File: PY3ZZ: PY3ZZ, PY3CDL, PY3CMC.

WORLD TOP 10 QRPs (5w input)

1. TG9GI	1,035,693
2. DF4RD	431,547
3. UB5UCJ	387,416
4. K8IA	337,666
5. UP2BIM	315,563
6. OA8CW	288,674
7. W8UVZ	248,256
8. ON6NL	246,749
9. K4LTA	233,122
10. G3FTQ	122,570

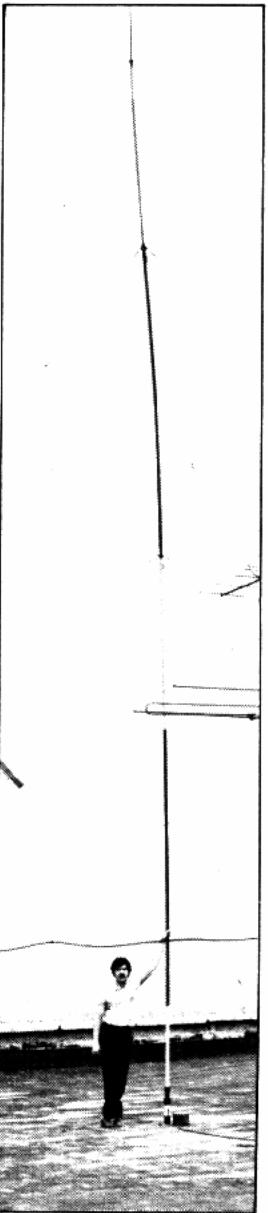
Number groups after call letters denote the following: Band (A = all), Final Score, Number of QSOs, Zones, and Countries. Contests indicate winners are listed in Bold Face.

SINGLE OPERATOR NORTH AMERICA

UNITED STATES

W1ZM	A	3,182,460	1790	150	470
(Opr. K1ZM)					
K1AR	"	2,510,235	1501	141	444
K1RK	"	2,431,136	1611	138	406
AA22/1	"	2,085,270	1379	130	404
W1RR	"	2,037,000	1423	128	397
K1UO	"	1,991,236	1363	129	385
K3JZ/1	"	1,771,056	1426	112	329
KG1E	"	1,651,779	1292	121	346
K1EA	"	1,377,000	1067	119	340
N1API	"	691,224	736	84	248
K1BW	"	663,012	632	107	271
KA1FGH	"	553,521	627	83	224
W1ZK	"	515,822	553	96	253
W1BWS	"	510,719	588	94	225
W1WHN	"	409,590	441	92	241
K1VDF	"	379,172	496	70	178
K1EFI	"	352,768	487	64	192
KB1W	"	346,320	519	69	171
N1AU	"	317,566	424	85	189
W1CWU	"	304,842	423	78	204
K1IK	"	179,428	506	28	96
W1ICH	"	174,097	312	63	146
N1BEY	"	171,785	299	68	147
W1FM	"	109,826	230	58	120
KA1CLV	"	80,352	197	52	110
KE1E	"	66,132	181	43	89
K1ZZJ	"	54,249	182	33	74
KA1EKR	"	44,486	134	38	80
N1CW	"	31,625	107	44	71
AE1X	"	11,880	50	22	44
W1WY	"	8,890	51	29	41
K1JYM	"	3,149	33	23	24
AA1M	"	1,736	27	13	15
W1WEF	28	378,533	826	32	127
W1HJF	"	53,227	189	26	75
W1BWH	"	45,600	174	32	95
N1BPJ	"	7,436	50	16	36
K1RB	"	5,117	45	15	28

IP 10 QRPs input)	1,035,693	KA2MNJ	88,088	232	41	102	W3EVW	250,832	370	79	178
	431,547	W2TZ	83,622	204	51	103	W3KV	235,445	344	66	179
	387,416	W2FTY	67,070	136	66	124	W3JPT	225,364	401	62	144
	337,666	W2PHT	62,967	178	45	94	K3KP	204,166	387	64	114
	315,563	W2GKZ	51,500	158	40	85	K3VW	135,790	267	55	130
	288,674	KT2M	29,480	128	29	59	W3HVM	135,100	261	63	130
	248,256	WB2BBA	27,090	109	29	61	K3TC	129,256	228	73	141
	246,749	WA2WVU	16,224	86	31	47	K3OX	122,760	250	58	129
	233,122	KB2GW	13,662	68	23	46	W3RJ	112,868	279	37	102
	122,570	KS2C	13,575	70	29	46	W3INK	107,326	227	62	144
KA1CDC	21	185,770	477	28	93	W3GRF	97,696	207	60	112	
WA1FCN	"	130,875	366	30	95	W3EAN	96,075	212	61	114	
K1BV	"	33,774	155	22	56	K3BNQ	91,806	227	51	112	
W1PLJ	"	3,782	43	7	24	W3IDT	67,160	188	47	99	
K1KI	14	695,453	1287	39	148	K3MBF	66,229	227	28	75	
W1GG	"	254,185	606	35	110	K3UC	60,060	203	34	71	
K1WJL	"	100,056	270	33	99	WB3CAC	57,164	165	45	79	
AB1U	"	77,367	251	27	84	K3JGU	53,352	168	46	68	
K8UR/1	7	10,856	69	18	41	K3LWJ	48,314	151	42	77	
KA1XN	"	91,304	307	29	84	W3FQE	48,178	175	37	72	
WB1FSW	"	49,900	212	25	75	K3YL	47,880	158	41	79	
WA1AER	"	40,568	176	21	67	WA3YTI	23,200	92	38	62	
WB1EAZ	"	18,720	97	21	51	KF3C	17,848	69	35	57	
WA1ZAM	"	8,690	63	18	37	WA3YJA	14,514	78	34	48	
K1JX	3.8	99,645	391	22	83	K3GVS	10,804	66	28	46	
K1PT	"	77,322	329	25	73	WA3YOB	9,776	72	31	51	
AB1A	"	63,112	250	25	73	N3CWB	136,424	386	31	97	
W1HX	"	3,280	34	13	27	K3ZD	71,788	246	27	75	
KE1F	"	3,060	49	12	18	WA2QNW	67,650	219	28	82	
K1VHS	"	1,728	30	10	17	WB2TKD	45,600	166	26	74	
K2VV	A	2,395,848	1570	132	414	W2AYJ	36,120	154	22	62	
K2BU	"	2,368,314	1590	130	392	WB2SZY	34,656	157	21	55	
N2LT	"	2,320,122	1565	134	384	K2LQJ	31,540	147	21	55	
K2DM	"	1,604,697	1219	125	346	W2KHO	25,308	120	18	58	
N2SS	"	1,559,948	1221	115	343	W2DW	18,768	103	19	49	
W1GD/2	"	1,076,277	936	108	309	K2RD	14	315,296	574	38	128
WA200S	"	933,812	804	112	306	K2SF	60,614	155	34	105	
K2OF	"	806,053	795	102	271	N2BK	2,430	27	12	23	
K2F0	"	649,440	645	106	263	WB2CUZ	1,416	27	9	15	
N2MR	"	610,720	638	101	251	K2BXRH	198	8	4	5	
K2NJ	"	586,496	658	88	228	K2IGW	7	84,184	280	27	79
WA2SPL	"	585,453	663	93	246	N2KK	3.8	77,056	269	27	86
K2TR	"	532,004	871	65	159	K2LP	"	6,820	62	12	32
KB2CR	"	499,728	515	102	257	WA2IFS	"	2,070	32	12	18
N2WV	"	483,644	548	90	232	K4CEF	A	928,884	793	122	332
N2J2	"	382,230	516	83	191	K4CG	"	887,616	797	119	283
K2SNK	"	293,776	429	72	172						(Op. K7SV)
W2GD	"	291,959	393	86	195	W3BGN	A	2,414,458	1556	138	409
W2BTU	"	238,000	349	72	166	N2FB/3	"	1,989,184	1441	125	361
K2SHL	"	195,294	311	80	162	K300	"	1,955,792	1409	130	372
N2LT	"	164,528	274	73	153	K3NZ	"	1,348,758	1074	118	334
W2BLT	"	153,846	257	74	148	N3RS	"	1,123,339	1050	97	286
K2SE	"	152,250	279	68	142	K3KNH	"	1,117,770	1070	107	264
W2FGY	"	144,664	257	70	144	K3JLT	"	1,058,471	813	132	351
N2AI	"	133,525	279	54	121	W3AP	"	988,582	778	127	312
K2KA	"	122,061	236	63	120	K3L3	"	883,184	848	111	271
KB2WN	"	118,300	261	52	117	W3RL	"	849,464	776	114	280
W2NC	"	114,072	216	59	137	K3FN	"	805,566	700	123	303
K2QIL	"	99,360	227	46	114	W3XU	"	748,525	698	112	267
W2SDO	"	95,040	182	62	118	N3HW	"	652,720	726	93	235
					WB3CIW	"	649,486	667	95	254	
					K3WW	"	618,436	627	98	266	
					N4Q0/3	"	594,384	635	91	245	
					N3NA	"	583,044	663	89	219	
					K3WJV	"	561,824	577	109	253	
					W3CM	"	532,062	564	103	251	
					K4JLD/3	"	526,071	595	94	235	
					W3GK	"	458,128	588	74	200	
					W3ARK	"	377,655	539	64	191	
					W3DHM	"	345,690	383	97	248	
					W3UJ	"	344,652	410	93	215	
					K3WJ	"	308,992	447	82	174	
					W3GR	"	306,464	374	103	211	
					W3GL	"	292,640	371	96	199	
					K3AV	"	288,510	356	81	214	
					WB3KIL	"	275,028	393	74	184	



UY5XE with the 80 meter vertical.

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
9Y4V	39/7/9	404/17/57	748/25/78	1620/32/89	1476/34/96	2795/31/93
HH2WW	138/6/16	315/15/50	624/21/62	974/33/88	1093/27/80	3490/32/100
N1GL/6YS	57/9/18	213/16/48	459/25/57	814/30/88	1689/28/92	2350/28/88
DJ6QT/CT3	20/7/14	296/16/64	332/19/67	697/32/89	1229/31/92	1363/31/105
UF6CR	37/5/14	171/9/35	629/13/67	1742/31/102	1231/30/88	855/21/65
YU3EY	24/6/23	136/12/60	469/22/77	576/34/102	889/30/94	1076/32/99
FR0FLO		118/19/25	140/22/39	733/34/91	1017/35/97	1317/32/97
DK3GI	9/2/8	318/13/59	191/16/57	750/36/108	949/37/107	959/34/105
ZF2FL	1/1/1	498/16/41	560/11/26	1804/36/98	843/25/61	1086/21/53
VP5KP	31/3/6	134/7/15	573/17/26	1294/25/93	1408/26/56	2399/24/60

WORLD TOP MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
9Y4W	124/8/25	296/17/59	594/27/86	1953/35/127	2104/35/121	3026/36/122
NP4A	153/15/36	579/25/82	537/28/87	1759/36/125	1969/36/127	3794/34/128
FM7CD	16/6/14	258/17/59	739/30/96	2134/38/137	2738/38/135	2388/36/135
4T40	10/8/8	213/17/36	689/25/58	939/35/106	2258/34/121	3564/33/102
RGGG	151/13/49	385/16/70	446/26/83	1653/36/128	1349/33/116	2028/32/112
VP2EC	163/6/15	356/16/58	537/22/73	818/30/95	2198/34/102	4240/33/125

WORLD TOP MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
OH8W	575/10/44	1294/24/92	1394/35/109	2423/40/168	2716/40/162	2371/39/154
EW6V	1092/9/36	1212/11/58	973/18/68	2020/36/134	2415/35/125	2388/33/123
VPS9D	366/8/18	1002/16/49	877/23/69	2624/36/124	3095/33/120	2732/32/109
HC0	107/7/11	561/19/40	895/22/54	1842/37/113	2159/36/108	3059/34/106
N2AA	102/15/39	401/24/84	445/31/94	1148/38/137	1246/34/137	1029/33/140
YT4I	39/4/17	447/11/50	892/25/89	2161/38/142	1657/35/115	1623/34/117

USA TOP SINGLE OPERATOR—ALL BAND

Station	160	80	40	20	15	10
W1ZM	36/10/26	155/18/59	110/23/59	388/34/108	504/33/106	597/32/112
K1AR	8/5/7	99/18/52	85/20/60	327/35/102	470/30/109	512/33/112
K1RX	16/6/8	98/16/48	116/21/56	390/37/96	397/29/90	594/29/108
W3BGN	27/10/20	117/19/57	114/19/53	399/32/90	316/28/89	583/30/100
K2VY	27/8/17	77/15/43	77/19/47	270/30/93	389/29/99	730/31/115
K2BU	1/1/1	104/16/51	102/33/49	323/33/95	379/27/93	681/30/103
N2LT	16/8/12	79/14/42	93/19/47	363/36/97	423/28/86	591/29/100
N6BV		34/12/15	408/26/41	196/30/69	924/32/79	477/25/63
K6HNZ	16/8/7	74/15/19	315/21/32	130/27/66	915/27/68	604/25/61
KM6B		82/17/29	214/27/47	132/25/61	1024/29/80	368/27/70

USA TOP MULTI-OPERATOR SINGLE TRANSMITTER

Station	160	80	40	20	15	10
W4QAW	23/11/20	105/21/65	197/28/80	438/38/135	1001/37/122	394/32/129
KR2N	19/9/17	132/22/68	111/26/73	682/36/124	575/31/115	793/35/121
KX4S	18/9/16	85/24/66	105/29/78	676/36/126	657/33/117	579/33/134
K1CC	18/7/11	93/20/60	136/23/71	493/33/113	469/31/113	589/30/119
N4ZC	17/9/15	51/17/43	150/28/79	504/37/126	468/31/105	542/32/123
W2YV	43/12/28	127/22/72	184/25/72	322/33/101	568/33/115	435/31/109

USA TOP MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
N2AA	102/15/39	401/24/84	445/31/94	1148/38/137	1246/34/137	1029/33/140
W3LPL	53/12/25	213/22/75	353/31/95	929/38/147	1136/36/138	1170/34/148
K10X	100/9/29	313/24/84	305/29/86	918/34/123	1300/34/144	976/33/132
W7RM	83/13/16	400/26/50	549/30/88	604/36/115	1993/36/115	791/31/85
N5AU	158/10/19	175/25/57	513/31/89	915/39/150	1135/34/114	877/33/128
K9GL	59/15/25	219/25/69	264/27/83	844/39/145	923/34/131	654/33/126

WB4FTU	73,315	182	63	92	WA4SYO	3.8	58,104	215	29	79	W5WMU	14	305,660	713	36	117	YV4CYV	3.8	9,744	74	21	37	W7LGG	"	53,888	151	41	87
N4RA	69,454	171	49	105	K0TPF/4	"	17,284	118	15	43	AF5K	"	123,195	374	31	98	/W6	"	19,344	107	33	45	N7AME	"	53,436	171	52	70
N4AD	68,396	328	26	45	K4WHN	"	5,985	51	13	32	N5NC	"	4,050	36	18	27	K6EDO	"	18,810	74	35	60	K7CV	"	51,184	192	47	65
N4JAT	61,662	182	39	90	W4BA	"	4,056	46	13	26	KB5AS	7	73,100	302	24	61	K6EPO	"	16,030	86	32	38	AG7P	"	43,771	169	30	61
WC4E	58,653	166	45	88	N4IN	1.8	4,305	46	13	26	K5RMR	"	54,624	206	25	71	W6FLB	"	5,096	78	34	40	N7AM	"	36,540	143	35	55
K4B4Y	53,448	152	44	87	N4SU	"	4,066	61	12	26	WA5IHS	"	34,188	157	27	57	K6OS	"	14,630	77	29	41	K7UO	"	34,574	112	47	71
K4STE	49,896	147	79	79	W4PZV	"	2,592	39	10	22	WB5ZKR	"	2,542	33	14	17	W6KBD	"	5,910	78	15	15	K7AA	"	19,796	74	37	64
WB4MAI	49,540	131	54	92	W5GN	"	625,974	792	98	225	K5BZU	3.8	9,744	74	21	37	K6EPK	"	5,828	47	21	37	K7CRN	"	17,955	112	28	29
KD4PP	40,832	144	42	74	W5XZ	A	1,832,827	1300	140	359	W8BDB	"	4,258,704	2039	125	267	W6DBC	"	433,331	1157	32	105	W7LGR	"	53,888	151	41	87
W4ZRW	40,005	117	38	91	K5RX	"	1,390,512	1065	130	342	W6HNZ	"	2,211,256	2054	123	253	W6HMB	"	450,570	760	34	60	K7RDG	"	53,436	171	52	70
K4XO	37,023	109	50	79	K5DX	"	1,028,360	1037	122	254	W6MSF	"	2,123,448	1820	125	287	W6LFB	"	45,570	760	34	60	W7FDQ	"	141,065	621	27	62
WD4PVI	36,594	131	31	76	K5NW	"	919,996	855	121	285	W7CBB/6	"	1,199,556	1186	112	236	W6AUE	"	69,417	309	24	44	K7RQD	"	155,800	344	29	91
N4T2	36,300	124	38	72	N5JB	"	747,574	729	122	260	W7CBB/6	"	1,197,441	1204	128	243	W6JW	"	42,240	232	22	44	K7IDX	"	56,584	228	24	64
W4OGG	34,692	114	44	75	W5GN	"	625,974	792	98	225	W6MSF	"	1,061,812	1511	121	243	W6HJ	"	69,417	309	24	44	W7AYY	"	49,284	237	22	52
WD4XT	30,135	112	48	75	K5ID	"	518,295	605	104	223	W6HMB	"	1,221,256	2054	123	253	W7KRN	"	49,284	322	22	52	W7TGR	"	17,806	116	27	31
W4KMS	26,786	96	47	71	K5LP	"	475,760	576	99	205	W6MSF	"	1,631,812	1511	121	243	W6KACU	"	45,570	760	34	60	W7WQE	"	46,575	224	22	53
WB5YL/T/4	26,724	142	19	49	N5CM	"	355,667	516	83	168	W6MSF	"	1,621,448	1820	125	287	W6KACU	"	45,570	760	34	60	W7WQE	"	46,575	224	22	53
W4TGS	24,024	104	36	52	W5ZPA	"	311,480	464	77	183	W6MSF	"	1,631,812	1511	121	243	W6KACU	"	45,570	760	34	60	W7WQE	"	46,575	224	22	53
W4TGS</																												

Single Op All Band Zone Winners												ASIA												
1. KL7D												HONG KONG												
2. No Entrant												INDIA												
3. N6BV												ISRAEL												
4. VE3BVD												JAPAN												
5. W1ZM												KOREA												
6. 6D5ZZA												LAOS												
7. No Entrant												LEBANON												
8. HH2WW (N4WW)												LIBYA												
9. 9Y4VT (N6AA)												LITHUANIA												
10. No Entrant												LODZ												
11. PP2ZDD												MOLDOVA												
12. EA4LH/CE3												MONTSERRAT												
13. LU1VK												NEPAL												
14. DK3GI												PALESTINE												
15. YU3EY												PAKISTAN												
16. UBS5MBP												PALESTINE												
17. UL7LAW												PALESTINE												
18. UV9PP												PALESTINE												
19. UA0LCZ												PALESTINE												
20. LZ2AB												PALESTINE												
21. UF6CR												PALESTINE												
22. 9N1WW (JA8BMK)												PALESTINE												
23. No Entrant												PALESTINE												
24. VS6DO (K7TI)												PALESTINE												
25. JA1ELY												PALESTINE												
26. No Entrant												PALESTINE												
27. KG6FAE												PALESTINE												
28. 9V1VP												PALESTINE												
29. VK6AJW												PALESTINE												
30. VK4VU												PALESTINE												
31. AH6J												PALESTINE												
32. FO0JO (W6GO)												PALESTINE												
33. DJ6QT/CT3												PALESTINE												
34. No Entrant												PALESTINE												
35. No Entrant												PALESTINE												
36. ZD7BW												PALESTINE												
37. 5Y4DE (N4VV)												PALESTINE												
38. ZS3HL												PALESTINE												
39. FR0FLO												PALESTINE												
40. JW1UW												PALESTINE												
N8TN	..	28,025	117	33	62	K9JI	..	10,065	58	20	41	KW0YUC	..	15,616	90	20	41	TG9EW	21	270,860	897	28	88	ASIA
K4BHJG	..	26,226	119	33	60	WD9FEN	..	6,210	48	24	30	W0ZV	21	631,331	1429	37	114	HAIKU	VS6DD	A	2,783,572	3918	146	305
K8RSH	..	24,820	107	33	52	K9KVA	..	4,801	43	16	27	N0AFL	..	39,783	155	23	66	JAH0TNE	VS6DD	A	4,091,093	3251	27	51
A18W	..	23,553	86	46	63	K9GDF	..	460	13	10	10	N0CKN	..	39,548	176	25	59	JAH3HTT	VS6DD	A	2,042,866	3251	109	185
K8KUH	..	20,202	103	24	50	W9YCV	..	234	11	7	11	K0LJ	7	195,624	587	32	82	JAH4VRR	VS6DD	A	3,530,488	3747	112	26
KV8E	..	17,024	95	19	45	K9CLQ	28	127,002	381	31	91	VE1AW	..	65,575	88	25	50	JAH5RDX	VS6DD	A	3,412,256	538	86	150
KC8NR	..	15,106	78	33	50	K9MDQ	..	124,572	341	30	98	VE1TG	21	275,561	808	30	113	JAH6CNU	VS6DD	A	3,414,600	3000	87	201
N8NBD	..	12,264	59	35	49	WB9IVC	..	90,720	300	29	79	VE1CAN	14	81,969	405	24	65	JAH7DZU	VS6DD	A	3,415,200	3000	87	193
W8YGR	..	9,804	47	34	42	KA9D000	..	87,285	275	30	85	VE1CV	7	131,860	594	22	73	JAH8JYV	VS6DD	A	3,416,200	3000	87	182
WB8YEW	..	7,259	55	24	37	W90A	..	76,014	226	28	30	VE1ALH	..	5,883	56	10	31	JAH9JYV	VS6DD	A	3,417,000	3000	87	181
K9AIIH	..	5,192	43	16	23	W9NCF	..	63,023	215	21	80	VE1AH	..	24,886	374	12	34	JAH10WV	VS6DD	A	3,418,000	3000	87	180
K8HFE	..	5,192	19	9	13	W9ZRI	1.8	3,366	52	12	21	VE2FU	3.8	64,790	527	18	44	JAH11PK	VS6DD	A	3,419,600	3000	87	179
K9GMG	..	582,978	589	15	24	W8FR/9	..	66,352	245	29	75	VE3BD	3.8	2,918,826	243	12	37	JAH12WV	VS6DD	A	3,420,200	3000	87	178
N9AFV	..	570,032	571	108	260	K9RF	..	2,079,660	1491	148	342	VE3CD	14	74,008</td										

TOP SCORES

WORLD	USA
Single Op All Band	Single Op All Band
9Y4VT 11,954,696	W1ZM 3,182,460
HH2WW 8,079,850	K1AR 2,510,235
N1GL/6Y5 6,873,661	K1RX 2,431,136
DJ6QT/CT3 6,417,306	W3BGN 2,414,458
UF6CR 5,898,240	K2VV 2,395,848
YU3EY 4,913,574	K2BU 2,368,314
FR0FLO 4,739,132	N2LT 2,320,122
DK3GI 4,735,162	N6BV 2,258,704
ZF2FL 4,262,180	K6HNZ 2,211,256
VP5KP 3,903,548	KM6B 2,123,448

Single Op Single Band 28 MHz	Single Op Single Band 28 MHz
YV2AMM 1,839,004	W6YA 537,774
AH0B 1,788,430	K5RC 457,867
4M3AGT 1,579,888	WA6DBC 433,331
KB7IJ/KH2 1,441,158	N8II 423,680
CE6EZ 1,324,790	N4ZZ 388,755
IO4EAT 900,473	W1WEF 379,533

21 MHz	21 MHz
AH0AB 1,923,840	W0ZV 631,331
CX4CR 1,602,120	K5GA 495,021
KG6DX 1,455,214	K4ISV 428,730
VP2MR 996,303	N4MM 371,790
4X0U 900,303	N8UM 362,666
LZ2KTS 835,380	N2PP 346,500

14 MHz	14 MHz
YS1X 1,176,400	K1KI 695,453
N2BZQ/4X 1,142,964	K3KG/4 389,064
VE3BMV 895,712	K2RD 315,296
YV5ANE 869,632	W5WMU 305,660
CX7BY 863,211	KK9A 286,728
ZS6A00 769,272	W1GG 254,185

7 MHz	7 MHz
YV3BRF 528,193	K0GU 195,624
ZY5EG 232,603	W6AM 163,317
OH1IJ 199,440	N6SV 121,056
K0GU 195,624	K8UR/1 91,304
ZL4BO 186,684	K2IGW 84,164
LA7JO 185,096	K4PI 76,986

3.8 MHz	3.8 MHz
4M3AZC 203,280	K1JX 99,645
KH6XX 161,622	K1PT 77,322
YT3A 154,972	N2KK 77,066
LZ1KDP 143,022	A19J 67,068
YU4BR 130,205	AB1A 63,112
IO6NOA 126,324	WA4SVO 58,104

1.8 MHz	1.8 MHz
EA8AK 34,220	W8LRL 16,191
YU3EF 27,956	AE6U 5,005
EA9EU 25,080	N4IN 4,305
VE1BNN 24,886	N4SU 4,066
W8LRL 16,191	K5YY 3,366
I4RYC 13,932	W9ZR 3,366

Multi-Op Single Transmitter	Multi-Op Single Transmitter
9Y4W 16,775,034	W4QAW 4,455,190
NP4A 14,953,818	KR2N 4,371,389
FM7CD 14,481,363	KX4S 4,237,545
4T4O 13,494,118	K1CC 3,244,602
RG6G 12,276,352	N4ZC 3,148,890
VP2EC 11,754,309	W2YV 3,061,264

Multi-Op Multi-Transmitter	Multi-Op Multi-Transmitter
OH0W 19,030,501	N2AA 10,003,266
EW6V 18,746,136	W3LPL 8,806,995
VP9AD 15,929,459	K1OX 8,393,616
HC0 14,994,328	W7RM 7,518,720
N2AA 10,003,266	N5AU 7,424,865
YT4I 9,948,515	K9GL 6,191,968

The Spider™ Maritimer™ Antenna

U.S. PAT. 4349825



The only multi-band amateur radio antenna designed specifically for use on ocean-going boats and in areas close to the ocean.

- Non-magnetic stainless steel mast with nickel-chrome plated fittings give the best protection against salt water corrosion.
- No switches of any kind—no moving contacts to corrode, ever!
- Four amateur bands without changing coils—10, 15, 20 and 40 meters. **PLUS**, add the Spider™ Adapter collar and special resonators for commercial marine frequencies and you have **SEVEN** bands at your command at all times without any switching or changing coils.
- Less than six feet high so it can be stern-mounted on the transom for an easy installation.
- Approximately 50 ohm base impedance—requires no antenna tuner in the transmission line.
- SWR is approximately 1:1 at all selected resonant frequencies.
- Each resonator is tuned to the desired portion of the band by a tuning sleeve which slides over the outside of the resonator.
- **Accessories for Marine Use**—Stainless steel and corrosion-resistant ball mounts, angle mounting brackets, stud mounts and quick disconnects. RG58C/U coaxial cable with non-contaminating jacket. Coaxial fittings. Copper foil ground strapping.
- *A note or phone call will get you full information and prices—include phone number.*

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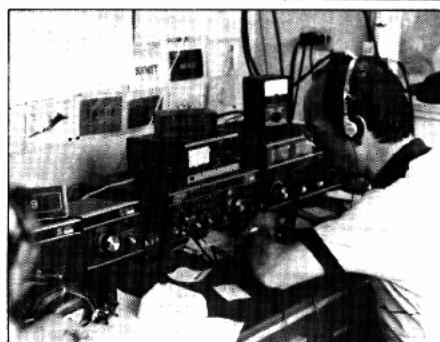
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CE6COR on 80 meters.



**ZY3ZZ Multi-Operator Multi-Transmitter.
Left is PY3CDL, and right is ZY3ZZ.**



CE2AA working hard during the contest.

JA1JGH	"	42,375	227	24	51	JH7CUO	"	34,030	162	28	54	UA9CSS	"	172,458	523	30	87	OK2TBC	"	41,000	275	26	74		
JA7FFY	"	39,680	178	27	53	JASBAB	"	30,495	125	33	62	UA9CTL	"	54,600	273	19	56	OK1AJY	"	31,200	279	19	59		
JR2CFD	"	38,290	193	26	44	JA4CVJ	"	21,138	98	28	50	UA9FBZ	"	52,020	424	23	45	OK3YK	"	23,874	255	16	53		
JA4AYU	"	34,009	160	26	45	JA3AOL	"	19,338	113	25	41	UA9QEP	"	50,728	308	17	51	OK3CLD	"	10,692	152	13	41		
J13BFG	"	33,609	176	25	44	JR3BOT	"	18,590	109	24	41	UA9GCR	"	30,840	200	13	47	OK1MIZ	"	7,434	152	9	33		
JA6XGQ	"	31,990	170	23	47	JABAGA	"	16,874	106	16	43	UA9UCU	"	27,930	176	13	44	SP5IXI	"	141,000	454	41	79		
JR70MD	"	31,872	179	17	47	JATRXU	"	15,860	93	21	40	UA9SKL	"	24,596	203	11	41	OE1EHS	A	260,036	512	71	180		
JH8ALB	"	30,810	171	22	43	JH2CJW	"	9,780	60	24	36	RA9UNN	"	24,221	192	12	41	OE6HZG	"	52,826	310	25	88		
JH7UJU	"	27,824	201	19	28	JAY9YE	"	5,980	48	22	30	UA9ACO	"	23,968	163	12	44	OE1ZES	"	8,550	70	27	48		
JE1PJR	"	24,282	149	23	34	JE1ILP	"	3,268	32	19	19	UA9CMS	"	21,335	95	21	64	OE1MKW	"	4,104	41	22	35		
J11JQJ	"	24,080	122	23	47	JE1GZB	"	1,296	22	11	13	UA9YBR	"	6,264	102	12	24	OE1MPW	"	3/	28	327,744	924	32	112
J8LYV	"	23,700	159	20	30	JK1M7T	"	828	14	10	13	RA9CDM	"	5,984	48	14	30	0ESCWL	"	630	28	5	16		
JA1FO	"	22,701	120	21	48	JA2BAY	7	172,992	629	30	66	UA9OGF	"	3,724	133	10	18	OK2TBR	"	41,000	275	26	74		
JF3KNO	"	21,390	125	19	43	JA6AGX	"	52,780	268	27	43	UA9EU	"	243	17	4	5	OK1AJY	"	31,200	279	19	59		
JAYAA	"	21,200	295	12	13	JF1EEK	"	46,200	252	26	40	UA9WCO	21	123,119	455	29	72	OK3YK	"	23,874	255	16	53		
JA4KWW	"	20,640	96	28	52	JH4AG	"	26,600	150	30	35	UA9YBQ	"	69,479	512	19	48	OK1CLD	"	10,692	152	13	41		
JA1AAT	"	19,521	88	34	47	JA5PUL	"	4,218	45	17	21	UA9ZBF	"	65,162	621	25	37	OK1MIZ	"	7,434	152	9	33		
JE4BTE	"	17,976	121	20	36	JG5OP	"	3,565	45	15	16	UA9AUP	14	321,540	890	36	102	SP5IXI	"	616	19	7	7		
J01RFR	"	13,724	104	19	28	JG3RPL	"	2,470	44	14	12	UA9XWR	"	125,757	530	27	62	OE1ZES	"	52,826	310	25	88		
J4A4QR	"	12,299	90	19	30	JH4MTE	"	2,070	35	12	11	UA9OS	"	18,988	143	12	35	OE1MKW	"	4,104	41	22	35		
JE6JVJ	"	11,954	96	18	25	JH3LFE	"	1,540	30	10	10	UA9VD	"	13,740	88	19	41	0E1MPW	"	3/	28	327,744	924	32	112
JR2NTC	"	11,128	75	17	35	JG3KWV	"	1,184	31	9	7	UA9SGL	7	4,650	126	11	19	0ESCWL	"	630	28	5	16		
JA1AAV	"	7,661	58	20	27	JA6IEF	3.8	14,892	108	23	28	UA9CCW	"	1,134	17	12	15	OK3XR	"	8,740	182	6	40		
JH2ORJ	"	8,642	54	18	23	JA6PL	"	5,808	46	16	28	UA9OIE	"	435	20	5	10	OK1MGW	"	5,289	128	6	35		
JR7WAY	"	5,328	56	13	24	JG3RPL	"	5,328	32	10	21	UA9CBW	"	30,052	240	13	50	OK2BRZ	"	1,830	61	5	25		
JA6ADA	"	2,604	93	21	21	HL9AZ	A	2,043,596	2321	116	387	UA9SHU	"	20,951	187	8	33	EAGFS	A	106,533	337	44	89		
JH8RGQ	"	558	11	8	20	(Op. KA4NCZ)	"	2,043,596	2321	116	387	UA9ZDD	"	15,184	223	12	14	EAGET	28	812,640	2200	37	123		
JL1CCX	"	528	11	5	10	HL9KE	21	247,101	1368	29	64	UA9CBM	"	8,871	115	9	28	EAGLA	21	14,630	142	19	51		
JA5DQH	"	287	15	4	3	HL9KE	21	247,101	1368	29	64	UA9SJJ	1.8	5,208	80	8	16	BALEARIC ISLANDS							
JA2APX	21	395,351	1091	35	92	KUWAIT						ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JR1CBC	"	356,574	915	35	99							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JR1WHW	"	321,480	908	34	86							ON7DR	"	128,164	380	58	121	BALEARIC ISLANDS							
JA1USO	"	310,905	757	38	103							ON4JJ	"	360	18	7	13	BALEARIC ISLANDS							
JF3NLQ	"	164,192	499	33	79							ON4AWB	28	104,112	436	25	83	BALEARIC ISLANDS							
JL1TVV	"	127,102	439	34	69							ONBBK	21	209,697	825	31	96	BALEARIC ISLANDS							
JF6IWU	"	116,300	410	30	70							ON4XG	"	44,368	294	27	67	BALEARIC ISLANDS							
JR1DZA	"	69,048	287	29	55							ON6RM	A	311,008	850	61	163	BALEARIC ISLANDS							
JA8UJY	"	65,570	273	28	55							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JJ3AIO	"	64,034	225	33	68							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
J3AYKMB	"	63,336	262	25	61							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JH7NAB	"	62,568	309	24	48							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JH6HYL	"	56,722	239	27	50							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JA5IMB	"	48,772	195	30	59							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JA1DCO	"	48,676	199	26	60							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
J10QLB	"	46,056	213	26	50							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JR4DF0	"	45,980	209	25	51							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JF1ASB/4	"	43,650	205	26	46							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
J1LLD	"	41,001	175	26	53							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JH5EV0	"	40,040	185	27	50							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JA7GYR	"	37,587	206	23	44							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JK1WBN	"	37,520	191	26	44							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JR7OKK/1	"	36,936	163	29	52							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JH3EQG	"	28,365	116	38	55							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JR3EGT	"	26,975	146	23	42							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
J6GZJD	"	25,193	144	22	39							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JR4ISK	"	22,862	117	26	45							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
J49CJW	"	20,940	120	21	39							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JA8UMV	"	18,113	110	21	38							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JM1JAL	"	17,574	121	20	38							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JE7DTT	"	16,050	114	21	29							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
JN1UZU	"	14,711	115	20	27							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS							
J2ASP	"	7,257	65	18	23							ON4KST	"	161,142	655	30	77	BALEARIC ISLANDS					</		

OH2JQ	"	53,846	210	40	134	Y47XF	"	202,692	480	61	193	IK2BXH	"	42,080	372	20	60	SARDINIA	SM5GA	"	7,410	131	15	39		
OH6MM	"	49,416	247	35	107	Y67XL	"	172,032	577	51	173	IK3AWP	"	7,371	113	12	39		SM5CBM	"	2,160	32	11	25		
OH2BSX	"	46,116	287	40	68	Y38YE	"	141,382	358	56	167	IN3OBR	7	37,656	365	12	60		SM5GNU	7	100,626	608	22	71		
OH2VZ	"	41,230	145	43	112	Y22HF	"	107,800	328	52	144	IO1ZH	"	11,592	155	11	52		64JVG							
OH1PY	"	40,917	227	26	43	Y48YA	"	106,741	422	40	133	IO6NOA	3.8	126,324	838	29	87	SCOTLAND	/SM0	"	10,207	146	"	48		
OH2BHG	"	39,000	212	33	92	Y47UC	"	94,667	465	38	99	I4RYC	1.8	13,832	233	10	42		SM5CAK	3.8	13,776	250	10	38		
OH6CD	"	24,990	204	21	77	Y36YM	"	86,573	308	44	123	LEICHENSTEIN						SWITZERLAND								
OH5UL	"	24,411	113	33	70	Y23DG	"	79,567	334	36	97	H8B0E	A	513,000	959	66	234		HB9AAA	A	814,345	904	88	283		
OH1OR	"	19,966	104	38	96	Y87XL	"	51,891	208	40	107							HB9AUS	"	608,882	827	83	251			
OH2DN	"	5,422	56	18	40	Y57TH	"	49,300	243	45	144							HB9ZY	28	112,426	312	31	103			
OH5PA	"	5,244	43	19	38	Y22WD/P	"	45,843	289	38	73							HB9DX	21	26,596	99	28	94			
CH1KO	"	1,804	29	16	28	Y43ZI	"	43,484	137	49	123															
CH1ED	"	1,770	26	14	16	Y33TA	"	32,922	118	44	74															
OH1PY	"	167	88	26	60	Y33VL	"	31,892	108	44	75															
OH500	"	76	7	5	7	Y26PH	"	29,274	123	46	73															
OH1BA	"	50	5	5	5	Y23VB	"	26,950	101	39	59															
OH1BV	28	35,214	205	34	103	Y35RK	"	26,832	243	20	84	PA0KHS	"	421,167	820	54	257		U.S.S.R. EUROPEAN							
OH2BFS	"	814	35	6	16	Y23ZF	"	24,700	129	30	70	PA0QD	"	610,025	940	85	240	SICILY	UC2DAJ	A	137,632	465	53	131		
OH6AM	21	596,167	1745	34	109	Y34UF	"	22,311	107	36	75	PA0DUO	"	70,350	182	61	149		UC2WBL	"	32,625	167	40	87		
OH5TS	"	559,986	1778	32	102	Y23YL	"	19,530	118	26	64	PA0ADCR	"	27,608	146	32	84		UC2ACI	28	33,726	228	20	57		
OH3AA	14	351,648	1308	36	108	Y24SK/A	"	19,075	104	33	76	PA0BVM	"	27,324	157	24	68		UC2AAF	"	24,674	192	21	52		
OH3RF	"	203,680	865	35	99	Y79WN	"	17,955	118	32	63	PA0CJP	"	20,956	165	17	35		UC2WAZ	14	16,965	154	16	49		
OH4ML	"	78,881	455	26	75	Y21JH	"	15,928	109	28	60	PA0BDK	"	17,919	99	35	65		UC2BA	7	2,660	50	7	28		
OH2I0	"	76,160	350	35	83	Y24GF/A	"	14,196	72	25	53	PA0LIE	"	14,760	98	36	54	ESTONIA								
OH6DU	"	26,880	266	17	53	Y54UA	"	11,682	95	22	44	PA0INE	"	14,290	83	24	50		UR2RHF	A	271,216	581	66	187		
OH1IJ	7	199,440	1232	27	93	Y34XF	"	6,572	71	17	36	PA0KDM	"	11,376	63	25	49		UR2RMI	28	121,452	509	26	90		
OH2BWL	"	682	27	4	18	Y54ZI	"	6,554	82	19	39	PA0BVM	"	5,772	67	20	32		UR2RII	"	32,470	174	25	60		
OH4PW	3.8	4,800	120	7	33	Y62ZH	"	6,237	93	14	49	PA0RBS	"	5,335	39	20	35		UR2RGJ	"	19,558	115	22	55		
OH5NG	1.8	7,449	191	6	33	Y79VN	"	6,188	51	25	43	PA0ADR	28	70,848	656	25	83		UR2RMZ	"	18,975	164	16	53		
OH2BO	"	3,267	91	7	26	Y71WN	"	5,589	71	17	52	PA0AAN	"	30,914	229	14	44		UR2RC	"	13,515	76	23	62		
OH3TQ	"	815	35	5	18	Y38WI	"	2,958	49	15	36	PI1PT	"	14,016	75	21	52		UR2RN0	"	13,134	142	19	43		
(Opn. OH3RF)														Y44WA	"	2,142	29	9	25	SPAIN	EA3ABJ	"	5,632	78	9	23
FRANCE														Y37ZE	28	51,352	247	24	74		UR2RLZ	"	3,731	34	15	26
F9GL	A	2,099,580	1898	98	322	Y53ZF	"	47,960	227	25	63	PA0IJM	3.8	24,681	408	8	49		UR2RBN	"	3,465	30	19	26		
FW8FE	"	404,926	942	68	225	Y22CC/A	"	29,546	215	22	64	PA0JNE	"	14,290	83	24	50		UR2RFL	"	1,800	33	9	16		
F6EXQ	"	255,500	551	70	222	Y25MG/A	"	15,712	103	19	48	LA1HCA	A	108,850	350	49	126		UR2RIF	14	126,408	928	22	70		
F6FHA	"	49,046	168	42	95	Y67WG	"	10,845	110	14	31	LA2AD	"	103,805	391	44	114		UR2FQ	"	88,368	429	33	79		
F6API	"	9,960	53	31	52	Y23GB	"	8,548	96	16	30	LA2AS	"	69,052	282	41	81		UR2FM	7	49,200	460	16	59		
F2SI	21	720,940	1932	35	110	Y53WL	"	8,538	84	15	29	LA7UAA	"	44,940	300	28	79		UR2KB	3.8	17,664	338	7	39		
F6KRC	"	599,379	1866	31	92	Y34YE	"	4,410	40	15	34	LA2TO	"	33,630	157	31	81		UR2RHK	"	15,974	307	7	42		
F6FNA	"	18,786	129	20	42	Y62XG	"	570	16	8	11	LA2CBA	"	26,335	140	29	86	ESTONIA								
F6BBJ	7	14,553	162	11	52	Y33XB	21	327,206	1095	35	124	LA1MCA	"	19,240	190	18	56		UV3GZ	A	1,813,322	2100	104	297		
GERMANY (FRG)														Y28AL	"	20,545	109	20	70		UA6ALL	"	1,094,052	1524	102	270
DK3GI	A	4,735,162	3176	138	444	Y78XL	"	202,565	781	33	94	LA2CB	"	19,240	190	18	56		UA3ODW	"	541,620	1093	81	214		
DL8PC	"	1,999,107	1844	119	358	Y24SG	"	40,568	203	22	66	LA1JCA	"	19,240	190	18	56		UA3RK	"	371,579	803	75	208		
DK5AD	"	1,030,446	1088	101	336	Y55WH	"	7,105	91	8	27	LA2DT	"	14,427	133	19	44		UA4NA	"	345,239	647	77	236		
DJ3HJ	"	865,555	1349	76	213	Y68SG	"	5,332	77	11	32	LA1E	"	4,688	9	6	9		UA3DRB	"	340,744	466	98	284		
DF4ZL	"	685,620	963	93	297	Y26KL/A	"	3,219	33	13	24	LA1IE	"	5,894	70	15	32		UA3ABI	"	333,733	736	75	210		
DL2UH	"	567,768	866	27	241	Y57WG	14	137,588	624	31	87	LA1RN	28	11,448	144	15	36		UA3TZN	"	194,768	424	79	190		
DL3PN	"	453,083	753	80	133	Y55XG	"	36,432	258	21	67	LA8DY	14	77,425	455	24	71		UA1CAX	"	192,416	561	57	167		
DF2RC	"	345,450	589	69	225	Y65XW	"	17,526	199	14	55	LA2ZK	"	34,944	305	22	62		UA1CMB	"	120,241	457	48	139		
DK5PE	"	323,505	661	67	206	Y76VN	"	11,340	93	18	45	LA2ACA	"	29,358	337	18	45		UA3GEA	"	38,500	292	19	91		
DK5DS	"	259,461	561	68	159	Y24DF	"	4,056	104	6	27	LA7JD	7	185,096	948	34	102		UA4NB	"	21,131	83	40	73		
DA10V	"	255,231	694	49	158	Y25DE	"	1,944	48	7	20	LA5QK	"	10,044	173	7	47		UA3FNL	"	19,040	115	36	76		
DJ4PI	"	172,017	326	11	44	Y32KE	7	31,027	366	11	60	PORTUGAL						UA4APP	"	15,222	103	25	61			
DL1AM	"	19,980	333	19	41	Y43ZI	"	87,633	356	26	81	CT1BKY	A	650,818	1170	66	163		UA1ZWW	"	9,522	92	21	48		
DL3ME	"	10,422	100	14	40	Y65XW	"	38,136	237	21	63	CT1AHU	"	19,240	190	18	56		UA3Q0Q	"	9,024	100	15	33		
DH3SAX	"	5,280	52	17	31	Y48ZB	21	372,120	1103	36	104	CT4MS	"	88,902	358	30	69									

KALININGRADSK										
UA2EC	A	248,704	566	64	204	YU20M	100,562	276	49 105	
UA2FFC	28	12,540	137	13	42	YU1AHX	65,315	284	36 111	
UA2FCW	"	1,176	53	5	16	YU7SF	32,452	196	31 102	
LATVIA										
UQ2GCN	A	1,645,893	2157	113	310	LU1VK	A	944,628	1452	
UQ2GLW	"	47,200	229	28	90	LU4M	28	305,952	1080	
UQ2DZ	21	135,939	550	29	84	LU6ADS	"	159,268	950	
UQ2BDQ	14	433,552	1429	38	120	LU1ABT	"	127,170	577	
RQ2GFN	1.8	"	193	13	3	YU7NZ	"	21	25	
LITHUANIA										
UP2BXB	A	1,184,910	1865	76	235	YU3TE	"	3,731	26	
UP2BAR	"	845,392	1125	86	293	YU7BB	28	322,200	1394	
UP2DM	"	409,460	794	66	170	YU3DRW	"	33 116	30	
UP2PAW	"	294,745	770	65	188	YU1NR	"	477,600	1150	
UP2BF	"	253,101	761	62	177	YU3VM	"	391,105	1175	
UP2BA3	"	219,936	698	54	183	YU3URV	"	310,649	1086	
UP2NO	"	74,939	345	34	103	YU5RK	"	8,634	103	
UP2PCB	"	71,145	326	39	96	YU7AV	21	797,742	2015	
UP2PBM	"	66,792	395	29	103	YU9W	"	663,661	1986	
UP2BD0	"	44,544	219	35	92	YU3SO	"	600,102	1620	
UP2QO	"	41,308	197	24	68	YU1DW	"	586,880	1865	
UP2PAE	"	38,704	219	33	85	YU7BJ	"	416,845	1237	
UP2NA	"	38,556	181	38	81	YU3TWT	14	753,118	1874	
UP2BCL	"	26,136	309	18	48	YU73L	"	722,360	1846	
UP2PK	"	24,089	181	25	84	(Op. YU3EA)	"	40 154	21	
UP2BBD	"	13,826	171	21	41	YU3DGG	"	366,750	1016	
UP2BHI	"	2,730	52	10	32	YU4DIJ	"	17,745	151	
UP2BIS	28	29,043	228	15	48	YU70RR	7	130,034	641	
UP2ND	"	8,370	99	15	39	YU73A	3.8	154,972	806	
UP2BLE	"	5,103	180	6	21	(Op. YU3DM)	"	28 84	21	
UP2AV	21	23,520	213	19	51	YU4BR	"	130,305	770	
UP2BEX	3.8	30,132	500	11	43	YU4EJC	"	66,750	605	
UP2BDX	"	7,448	171	7	31	YU2RVS	"	1,392	49	
UP2BKF	1.8	12,518	421	5	23	YU3EF	1.8	27,956	383	
UP2BCG	"	4,970	132	6	29	OCEANIA				
MOLDAVIA										
UO5OWN	A	152,675	542	62	135	AUSTRALIA				
UO5OIO	28	15,606	292	9	42	YK4VU	A	3,462,200	3341	
UO5OIE	"	9,812	223	11	33	107	243	3,691,500	3614	
UO5OCL	14	21,271	124	24	65	CE6EZ	28	1,324,790	3245	
UO5OHD	7	32,913	412	14	55	CE5CFR	"	25,358	277	
UO5SSA	"	7,800	101	9	41	CE5BS5	"	10,695	160	
UO5GR	3.8	10,715	165	9	38	CE3AM	"	1,815	41	
UKRAINE										
UB5MBP	A	2,006,040	2173	114	324	VK1RJ	"	108,808	326	
UB5ILD	"	1,018,412	1402	108	315	VK2AYK	"	108,237	343	
UB5EDU	"	778,824	1307	88	260	VK1LF	"	11,475	77	
UB5VAZ	"	616,641	1107	80	241	VK5NH	"	6,025	82	
UB5MFY	"	384,411	860	72	219	VK3VZY	"	3,140	55	
UB5KAN	"	381,824	670	79	225	VK7KDD/4	28	86,850	583	
UB5UKO	"	277,668	451	89	235	VK6AJW	"	566,352	716	
UT5RY	"	179,928	420	58	146	VK3PU	"	153,612	351	
UB5MSQ	"	179,422	712	42	111	VK1RJ	"	108,808	326	
UY5TE	"	157,872	570	45	163	VK2AYK	"	108,237	343	
UB5JBW	"	99,185	393	43	118	VK1LF	"	11,475	77	
UB5MFR	"	98,592	426	39	119	VK5NH	"	6,025	82	
UY5OO	"	75,999	471	57	112	VK3VZY	"	3,140	55	
UB5MZ	"	78,408	474	27	94	VK7KDD/4	28	86,850	583	
UB5WJ	"	53,100	173	49	128	VK6NCW	"	22,230	132	
UB5IC	"	44,144	240	36	88	VK8BE	"	8,534	85	
UB5QFE	"	29,197	184	26	71	VK3SM	14	36,000	178	
UB5II0	"	24,552	232	26	80	VK6FS	"	17,928	86	
UB5IPJ	"	7,722	89	15	51	YK4VU	A	3,174,717	3952	
UB5LU	"	363	11	6	9	FRENCH POLYNESIA				
UB5YCD	28	170,434	571	32	90	FO1JO	A	104,040	209	
UB5EJA	"	77,804	417	30	76	110	(Op. W6GO)	88 175	98 175	
UB5MHY	"	74,256	409	22	80	YK6FAE	A	809,088	1449	
UB5IET	"	39,770	274	22	60	81	111	107	243	
UB5ELE	"	34,075	293	15	32	VK7LJ/KH2	28	1,441,158	3440	
RB5GCE	"	31,244	218	19	53	CE6DX	21	1,455,214	3583	
UB5ZAB	"	25,920	165	20	44	HAWAII				
RB5MCW	"	25,150	352	16	44	AH6J	A	551,088	1309	
UB5FDT	"	17,632	178	16	42	KH6J	"	42,804	249	
UB5UBI	"	3,552	56	11	26	KH6JK	"	37,536	141	
UB5HY	21	67,140	320	27	63	KH6JKW	"	9,504	102	
UB5MLP	"	30,810	252	20	58	KH6GMP	"	9,504	102	
UB5UKW	14	160,776	770	29	103	KH5VL	"	1,144,158	3440	
UB5MGV	"	56,320	391	25	63	YK6XX	3.8	426,466	1060	
UB5MDD	"	14,238	185	14	44	YK6XX	"	161,622	773	
UB5WAF	"	9,780	117	14	46	YK6XX	"	27	46	
UY5CE	3.8	27,192	348	12	54	INDONESIA				
UB5VRY	"	15,232	220	11	45	YB4AEP	A	104,040	209	
UB5EGK	"	4,608	110	6	26	YB2CR	28	424,119	1310	
UB5EEP	"	4,495	118	7	24	YB0ACL	"	359,446	1161	
UB5VFG	"	3,432	84	6	27	YC2BSF	21	426,466	1060	
UB5FDF	1.8	6,510	133	8	34	YK2AF	14	643,560	1810	
WALES										
GW3MPB	A	33,835	335	26	75	ZL4AS	28	130,680	620	
YUGOSLAVIA										
YU3EY	A	4,913,574	3170	136	455	ZL2RY	"	105,920	560	
YU20B	"	1,454,795	1578	98	289	ZL4BO	7	186,684	680	
YU7AF	"	230,096	568	53	144	YK4VU	"	21	230,280	780
YU3DEM	"	211,928	570	56	180	YK4VU	"	21	230,280	780
YU3HAM	"	173,840	472	51	161	YK4VU	"	21	230,280	780
YU1NZW	"	148,416	367	53	139	YK4VU	"	21	230,280	780
4N6HN	"	130,020	450	37	89	YK4VU	"	21	230,280	780
(Op. YU6ZAN)	"	29,328	215	21	26	YK4VU	"	21	230,280	780
SOUTH AMERICA										
ANTARCTICA										
YU8PMI	A	29,328	215	21	26	YK4VU	"	21	230,280	780
PHILIPPINES										
YU3TE	A	33,835	335	26	75	YK4VU	"	21	230,280	780
YU3MB	A	33,835	335	26	75	YK4VU	"	21	230,280	780
UNITED STATES										
K1CC	"	3,244,602	1798	144	487	K1NG	"	2,365,792	1476	
K1NG	"	2,365,792	1476	138	434	KA1GG	"	1,570,167	1216	
KA1GG	"	1,570,167	1216	117	347	KG1D	"	1,425,892	1161	
KG1D	"	1,425,892	1161	110	332	WB1ELC	1,044,030	914	104	
WB1ELC	"	1,044,030	914	104	286	KA1RE	"	237,132	339	
KA1RE	"	237,132	339	69	152	K1WW	"	207,564	516	
K1WW	"	207,564	516	30	117	KR2N	4,371,389	2312		
KR2N	"	4,371,389	2312	159	518	W2YY	3,061,264	1679		
W2YY	"	3,061,264	1679	156	497	W2VJN	2,983,672	1688		
W2VJN	"	2,983,672	1688	155	477	VE3CYX	3,256,120	215		
VE3CYX	"	3,256,120	215	180	430	VE5GF	1,268,730	1808		
VE5GF	"	1,268,730	1808	106	227	YK7NAQ	21,225	491		
ARGENTINA										
KQ2O	"	883,584	768	111	305	W2BHK	871,250	755		
W2BHK	"	871,250	755	123	302	K2CC	792,246	836		
K2CC	"	792,246	836	101	255	K2TD	751,124	685		
K2TD	"	751,124	685	106	291	WA2DPU	637,738	593		
WA2DPU	"	637,738	593	110	272	N3ARK	718,185	601		
N3ARK	"	718,185	601	108	281	K3HP	603,872	602		
K3HP	"	603,872	602	105	271	K13I	488,133	591		
K13I	"	488,133	591	89	214	KC3AJ	330,480	430		
KC3AJ	"	330,480	430	96	210	KA3GIK				



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Prices and Availability Subject to Change

AEA	
CP-1 New Computer Interface.....	\$189.00
AMT-1 Amtor Terminal.....	475.00
144 Isopole Antenna.....	40.00
ALLIANCE	
HD73 (10.7 sq ft) Rotator.....	\$99.00
U-110 Small Rotator.....	49.00
ASTRON	
R57A 5-7 Amp Power Supply.....	\$49.00
RS12A 9-12 Amp Power Supply.....	69.00
RS20A 16-20 Amp Power Supply.....	89.00
RS20M 16-20 Amp w/meter.....	109.00
RS35A 25-35 Amp.....	135.00
RS35M 25-35 Amp w/meter.....	149.00
RS50A 37-50 Amp.....	199.00
RS50M 37-50 Amp w/meter.....	225.00
VS-20M Variable w/meter.....	125.00
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VS-50M Variable w/meter.....	249.00

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ZA-1A Balun..... 16.50

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CUSHCRAFT

A3 Tribander 3EL..... \$179.00
A4 Tribander 4EL..... 229.00

214FB

Boomer 14EL FM..... 69.00
32-19 Super Boomer 19EL 2M..... 83.00

ARX-2B

Ringo Ranger II 2M..... 39.00
416-TB..... 65.00

DAIWA

CN-520 1.8-60 MHz SWR/Pwr Mtr..... \$63.00
CN-620B 1.8-150 MHz SWR/Pwr Mtr..... 110.00

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TR7A Xcvr w/PS7..... \$1,435.00
TR7A Receiver..... 1,225.00

TR5

Xcvr w/PS7..... 675.00

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.... 39.00

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941C Tuner/Meter/Ant. Switch/Balun..... \$81.00

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313 VHF Conv for HT..... 36.00

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B1016 10/160 Preamp..... \$245.00
B3016 30/160 Preamp..... 199.00

ROHN

25G..... \$42.00

SHURE

444D Desk Mic/414A Hand Mic..... \$50.00/36.00
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HL30V 2/30W Amp..... \$63.00
HL160V 3 or 10/160W Preamp..... 295.00

HC2000 2KW Tuner..... 295.00

HL82V 10/80W Preamp..... 145.00

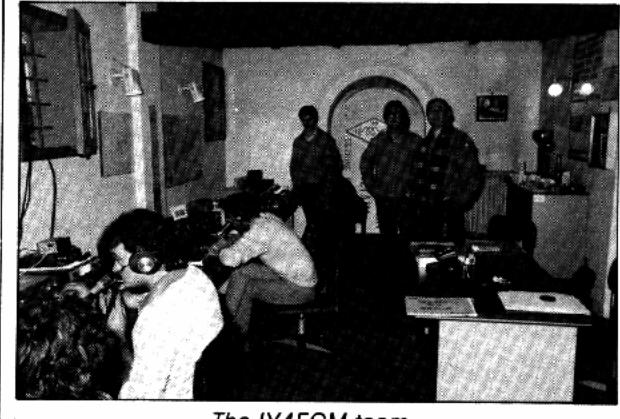
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Say You Saw It in CQ

EUROPEAN S.S.R.

UK6LAZ	3,969,133	2930 147 476
UK6LAA	3,071,110	2837 126 385
UK6XAA	1,563,618	2096 102 337
UK4CCC	1,389,782	1720 98 311
UK4WAB	1,176,814	777 70 199
UK6LEZ	1,048,240	1222 90 270
RK3ABO	987,138	1411 87 259
UK6LBM	933,032	1551 100 264
UK6HCZ	774,877	1229 80 243
UK3WAF	726,362	1306 81 257
UK4CBL	327,107	777 70 199
UK4LAA	181,653	741 70 181
UK4SAM	140,113	609 44 123
UK3XAB	37,800	198 28 62
UK3MAA	10,080	124 21 49
UK3DBW	9,075	106 15 40
UK3TBF	3,081	71 10 29

KALININGRADSK

UK2FAA	1,770,444	1748 115 353
UK2FAD	38,121	243 30 67

KARELO-FINNISH

UK1NAD	444,066	1130 67 224
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LATVIA

UK2GKO	1,488,800	1965 95 305
UK2GAB	1,287,616	1474 119 377
UK2GAZ	185,895	463 95 148
UK2GJW	19,000	219 18 58

LITHUANIA

UK2BBB	3,266,312	2657 135 449

<tbl_r cells="3" ix

SOUTH AMERICA			
ARGENTINA			
LU4F	8,507,235	5517 145 372	
LU4DQ	2,836,666	2605 112 259	
CHILE			
CE5CJA	2,064,170	2344 91 210	
CE2AA	2,047,680	1208 89 199	
CE3PA	1,172,360	1863 68 136	
PERU			
4T40	13,494,118	7869 152 431	
TRINIDAD & TOBAGO			
9Y4W	16,775,034	8,097 158 540	
MULTI-OPERATOR			
MULTI-TRANSMITTER			
NORTH AMERICA			
UNITED STATES			
N2AA	10,003,266	4371 175 631	
W3LPL	8,806,995	3854 173 628	
K10X	8,393,616	3912 163 594	
W7RM	7,518,720	4420 172 468	
N5AU	7,424,885	3773 172 557	
K9GL	6,191,968	2963 173 579	
N6R0	5,713,852	3607 162 434	
M4RJ	4,370,076	2436 165 518	
K4VX/8	3,987,462	2292 166 475	
W3GM	3,776,299	2068 152 501	
K2UA	3,512,054	2130 141 457	
A16V	3,478,548	2730 138 316	
W1YN	3,462,000	2101 141 459	
K6RU	3,419,323	2372 140 381	
KB6I	3,176,855	2591 131 314	
N2RM	3,090,550	1937 127 438	
N6RZ	1,948,536	1805 116 272	
K4VHC	1,679,115	1319 123 348	
K3ON	1,630,496	1210 122 380	
N6VV	1,605,955	1395 116 288	
W4XJ	1,553,112	1195 126 351	
K3II	1,460,830	1048 134 375	
K3ZUF	1,453,200	1012 133 386	
K6ZM	1,326,200	1260 118 262	
W8NGO	1,107,004	924 124 312	
K1SA	1,060,064	918 110 312	
N7BIT/2	936,169	824 105 298	
AD3V	723,240	648 122 298	
W6KBZ	702,506	946 95 183	
K1XM	488,305	579 88 217	
N3AW	367,500	550 85 209	
W3YFV	257,370	415 71 159	
N9BZR	232,200	390 71 145	
KC8SD	215,528	335 72 160	
ALASKA			
KL7RA	3,004,600	4046 105 227	
KL7CQ	428,778	1005 62 104	
BERMUDA			
VP9AD	15,929,459	10696 148 489	
CANADA			
VE7ZZZ	3,036,195	4202 110 217	
W8OK/VE2	2,097,822	3369 93 205	
VE3UM	345,060	520 79 164	
PUERTO RICO			
KP4BO	1,225,200	2839 62 138	
ASIA			
GEORGIA S.S.R.			
EW6V	19,181,932	10100 142 544	
JAPAN			
JA2YKA	5,953,860	3591 157 425	
JA3YKC	3,748,110	2616 147 358	
JA7JRR	2,592,760	2157 128 296	
JF1ZRO	2,522,550	2182 127 275	
JA1YXP	1,574,856	1722 112 205	
JA1YNE	1,456,070	1503 114 227	
JH1YDT	1,383,084	1590 97 212	
JA1YDU	692,624	852 102 190	
JA4YEB	408,576	579 85 171	
JA2YDC	197,758	409 65 112	
SAUDI ARABIA			
HZ1AB	7,691,938	5138 133 408	
EUROPE			
AALAND ISLANDS			
OH8W	19,030,501	10,773 188 729	

Dismalized: 4Z4DX—duplicates and unverifiable contacts; and 1YB—duplicates and unverifiable contacts.

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