

1981 CQ WORLD-WIDE DX CONTEST C.W. RESULTS

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

Just when you thought the conditions were retreating into the past, Mother Nature smiled on the C.W. weekend. The conditions were not just good, they were outstanding. Comments from around the world testified to sunspot maximum conditions.

The overall All Band winner was the result of a close competition between 9Y4VT and CT3BZ. These two fine operators set an example for others in their operating techniques and duplicate-free logs. This year Richard Norton, 9Y4VT, took the world crown. He was followed closely by Martti Laine, CT3BZ. HK3A operated by Fred Laun of HS1ABD fame was third in the world, and N6BT/AH0, who hopes to return to Saipan in 1982, was fourth.

The top USA All Band score was decided by less than a minute's operating time on a good band. K1GQ edged out K8LX for top place. The top five USA scores were better than the "old" 1980 record of 2.83 MEG points.

Four new continental record champions emerged: CT3BZ, Africa; N6BT/AH0, Oceania; UF6CR, Asia; & EA2IA, Europe.

Single band entrants were paced by LU8DQ's World Record 21 MHz score. Jorge's location and operating skills present a tough combination to challengers. The following stations set new records: EA8AK, Africa (1.8); 4X4NJ, Asia (1.8); UA9TS, Asia (3.5); JE3MCC, Asia (7); UA9ADQ, Asia (14); OH8SR, Europe (14); YU3ZV, Europe (21); KG6DX, Oceania (14); YV1DO South America (1.8).

In the USA, W1ZM (K1ZM op.) (3.5), K0RF (7), K6EWL (21), and N4ZC (28) all set new records.

In the Multi-Single category, P41E took the world top honors, thereby setting a new South American record. Second place winner, YU3EY and his crew, set a new European record in the highly competitive European Multi-Single division.

The new USA Multi-Op. Single Transmitter record holder was N4AR. The boys from Maine, N1AC, pushed Bill's crew to the wire before settling for second place. W3BGN rounded out the top three USA scores.

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Ibrahim, SU1IM, the Grand Old Man of Egypt, is still active daily. On the left is Ville, OH2MM, a visiting op at SU1AA.

In the battle of the Goliaths, W2PV captured the top world Multi-Multi score—no easy feat for a US station. They were followed closely by N2AA. W2PV beat the old US record by over a million points. In Europe the top honors went to the gang at OH3AA. They also set a new European record, and to finish off the Multi-Multi records way out on Niue, ZK2RU set a new Oceania record.

The contest is made more interesting by expeditions. The trophy for Single Operator expedition goes to SU1AA operated by OH2MM. This trip not only gave contestants an uncommon country multiplier, but also a rare zone. The expeditions of the following made the contest a pleasure: N6BT/AH0, ZK2RU, V3MS, K8CW/C6A, 8P6J, VP2VHX, HH2VP, VP2MEV, J6LZA, W4UY/PJ7, SU1AA, CT3BZ, C5AAU, 9K2DX, 8Q7BP, FC0FOO, YJ8RW, K3SA/PJ3, 9Y4VT, W4BPD/C6A, 6Y5JW, OH0AL, HB0AYZ,



Nigel, G3TXF (left), and Roger, G3SXW (right), arriving in Alderney (one of the three islands that make up GU3) for the 1981 CQ WW DX CW Contest—operation GU3SXW.

P41E, 9Y4KG, and FO0KP. Thanks for all your efforts.

The QRPP category is now well established. This year we had over 110 entrants. The All Band winner was AC2U. He beat out N3RS for the top World and USA position. In the future, if QRPP continues to grow, the committee will have to devise a better awards technique. Do you have any suggestions? If you do please write to the committee.

The World high club score goes to the Northern California Contest Club. This Club went from 9 MEG points in 1980 to over 160 MEG in 1981. Congratulations! Following in a very, very close second place was the Yankee Clipper Contest Club. One or two scores would have made the difference between first and



Chas, I0XXR, shown with FT-101 rig and TH3MK3 antenna.

second place. The Frankford Radio Club rounded out the top 3 club scores in the world. The top DX club score was the Lithuanian Contest Group, followed by the competitive scores of the Voroshilovgrad Radio Club (UB5) and the Kaunas Polytechnic Institute Radio Club.

The contest community around the world will remember this fall when the signals are strong and clear that a few of our friends are not present. W2PV, UI8LAG, and W3KT have become Silent Keys. Each one contributed to what the contest stands for: enjoyment and excellence. We will miss them.

The following people devoted much time and effort to verifying the results: Frank, W1WY; Terry, N6CW; Glenn, K6NA; John, K1AR; Jim, W7EJ; Dave, K2SS; John, K9DX; Fred, AD6C; Doug, KR2Q; Gene, N2AA; Reg, N6SV; and new committee members John, K2VV; Ed, N3ED; and Tree, N6TR.

We all wish you the best of a good contest season.

73, Bob, K3EST, and Larry, N6AR

U.S.A. QRM

Working ZK2RU for first contact with Niue in 47 years... **W4DGJ**. Thrill to work VQ9 & HZ long path, 7 MHz... **K4PI**. Best contest of them all. My first time for CQ WW CW; too bad it's always on Thanksgiving... **K5NW**. Precip static made me yearn for my old quads... **K6NA**. Lay down on Saturday night for 2 hours and wound up sleeping for 13 hours... **KD9E/6**. Tough using a KT-34 on 40/80... **WD6EWG**. My neighbor's new video-recorder did me in... **WB6EXW**. There is nothing quite like the "WW" for competitive sport... **W6US**.

Wait till next year!... **N1AC**. Worked CT3BZ on 5 bands—sure hope that bottle of wine comes in soon... **K1XA**. Hitting 100 QSO's/hr on 28 MHz, WAC on 7 MHz with the Butternut vertical... **KQ2O**. This still remains the premium DX contest of the year... **K2TD**. Next year we're going to use a beam and linear... **N4RJ**. FB8WG called me on 15... **W5RRR**. Got to be pretty good at replacing diode stacks in SB-220's during the contest... **NC6T**. This year HZ1HZ tail-ended a European, calling me... **W7IR**. Enjoyed the PREMIER CW Contest of all... **KD7H**. In Washington State we had only a brief 10 meter opening to Europe—a hint of the future... **W7WA** (Opr. of **K7RI**). It seems the rarer the DX station, the longer he takes to identify... **N7RO**. In the desert the heavy rain wiped out my balun... **K7NO**. Maybe it's time to reconsider the RST exchange for contests... **K7FC** and **N7ES**. A beam and Extra Class ticket sure help on 40!... **K7ABV**.

Along with my 160 meter log please find list of serious violators of the DX Window—request you start disqualifying those who take part... **K0PP/7**. New countries, lots of activity, antenna testing—that's the CQ WW... **KG7D**. Conditions so good it was hard to pick the right band to be on... **K8LX**. 48 straight is tough on the body... **N8II**. Caught the flu by preparing so frantically for the Test—just exhausted... **K8GL** and **W8UA**. My indoor dipole for 10 snagged 152 QSOs... **W8GOC**. Fun? Cracking some BIG pileups with 200 watts!... **N8BC**. A hot final amp helped in my unheated garage... **K8BA**. 250 QSOs with a straight key—whew!... **WD8IXE**.

When the amp blew, I drove 120 miles for tubes and got back in the Contest... **WD8AUB**. Simply, thanks to all for a great weekend... **W8LRL**. Zones 17 and 18 called me on 80 meters!... **K9BN**. First contest—I'm hooked!... **KC9T**. Finally got that Zone 34... **AK0M**. Really great runs to Europe on 40... **K0RF**. We were killed by severe line noise on all bands. It came up one-half hour before test... **N5RM**. JA signals at dawn on 3.5 MHz Sunday morning among loudest ever heard... **K1ZM**. Biggest thrill—no breakdowns!... **A1E**. Worked TG9AC for number 86 top band... **AA1K**. Are you sure 10 meters is on the way out?... **KA1CFC**. My Extra Class license came in the mail 7 hours before start of contest... **WA1FCN**. Worked CT3 as first DX on 80 meters... **KA1CZF/QRP**.

DX QRM

This is my swan-song contest, since I am entering the OTC this year... **OH2BH** (Opr. of **CT3BZ**). Best condx ever on CW weekend; ran out of stations on Sunday... **VE3BMV**. Lazy, tired and cold = me... **VE1AIH**. Great fun—CU next year... **VE6OU**. Lost rotator at 4 hours into contest and amplifier 10 hours later. Thanks a lot Murphy... **KH6ND**. I must have been popular. A lot of stations wanted to work me again and again... **VE1BEC**. Did enjoy your contest very much... **VE2DPO**. Bit confusing at first with stations using short figure "A" instead of "1" ... **VO1AW**. No time for full effort, but couldn't stay away entirely!... **VE1BCZ** (Opr. of **VE3UOT**). Not good propagation in Melilla... **EA9JV**. Extremely difficult working zones 6, 7, 10, 12, as these are completely blotted out by U.S.A. stations... **ZS2RM**. JT60UB QSO!... **VE2GCO**. Much less intensive contest effort this year after major efforts as 5W1BZ... **ZL1AIZ**.

U.S.A. beaming east while Europe beams west; no one beams south... **VK2AYD**. No permission for 3.5 or 7 MHz... **OH2MM** (Opr. of **SU1AA**). To those who did not get in the log, I will be back next year... **N6B7AH0**. Biggest thrill was having 8Q7BP answer my CQ... **4X6FY**. Vy nice condx first night (160 M)... **EA8AK**. Almost no CW activity from Africa, So. America, and Caribbean... **VE1TG**. Condx mediocre (3.5 MHz)... **KP4KK/DU2**. Condx much to be desired on 28.100–28.600 (Australian/Novice freq.)... **VK5NVV**. Conditions couldn't really have been better on 40 M... **VE3KRN**. The activity was tremendous overall with good condx into Europe (7 MHz)... **VO1QU**. Much more courtesy than discourtesy... **KH6JWK**. Surprised with 579 from VP8ANT (1.8 MHz)... **VE3INQ**. Hard to believe the multiplier on 7 MHz equal or greater than 21 and 28 MHz... **VE3IY**.

100 m.p.h. winds blew down 40/80 M inverted Vee on 2nd night and prevented turning the beam... **FC0FOO**. Fantastic contest; for the first time over 2000 QSO's and solid total score... **ON4FD**. My new antenna mounted late Friday afternoon... **OZ8AE**. Think the time has come to consider a bug-key... **G3X7T**. K9GL was audible at 0500 GMT

on 21 MHz... **G3RAU**. Band opening of 15 appeared like a sunrise. First a few weak signals, and within a few minutes the band was roaring... **DK3GI**. Made 17,000 points more than last year... **Y34SE**. Propagation was unexpectedly good... **TF3YH**. Confusing when **KP4KK/DU2** and **UK1PGO** both call on the same frequency (3.5 MHz)... **SM4CAN**. Was delighted to work **VP8ANT** for an all-time 1.8 MHz new country. Also made top band WAC for the first time... **GW3NYY**. First attempt and found the matchsticks in the eyes needed replacing often... **G3XKQ**.

It is very clear that it is impossible to work much DX with poor antennas. See you next year with new "antenna farm"... **HA0DU**. Beautiful Contest, big QRM... **I2WDB**. In my Zone blackout in electricity for 6 hrs... **IS0MVE**. Vy interesting contest. First time on CW... **OH5OZ**. Copying code after 47 hours without sleep is a bit difficult. Duplicate problem is getting very bad... **OH8SR**. Propagation good this year. None of the usual power line or storm damage. Expect some low band record to be broken... **OK2BFN**. Hard work for 48 hrs; I vote for some rest period... **4N1U** (**YU1PKC**). Bad condx second day and linear amp went QRT... **YU3EW**.

We surely need a beam on 40; perhaps next year!... **F3TV**. Excellent QTH on the island of Alderney went somewhat in compensating for mediocre antennas... **GU3SXW**. Excellent band opening and activity from U.S.A. and Canada on 40 meters... **HG5A**. The signals from USA were better on 7 MHz than on any other bands—worked 22 states!... **I2UIY**. Wish we had 160 M!... **SM5GMG**. Biggest thrill—every QSO with my 3 watts and dipole only 2 meters up... **OK3CAAP** (QRP—160). Conditions were so FB on low bands that we forgot to look after multipliers... **OH7AB**. Many U.S.A. stations on all bands... **UR2RHF**. Thanks for nice contest. My first time entering single band 80 M, very FB!... **UR2QD**. Very FB conditions on 28 MHz... **UA1DF**. QRP power, QRP antennas, QRP time, but QRO fun!... **VE3KZ**.

STATION OPERATORS

Multi-Operator Single-Transmitter

AA3B & WA3NRU, **WB3DJF**, **AA4KT & AA4H**, **N4DW**, **AA6T & N6BSU**, Net. **AF6S & Net**, **AH6BK & K7TI**, **WB6SHD**, **AB7I**, **K8ND**, **K8HFO**, **WB8YS**, **WB8ALG**, **OK6SU**, **DF7TV**, **DL3AS**, **DL5TT**, **DL5TV**, **DL9SAL**, **DK0TU**, **DK5GB**, **DK5HH**, **DK6DL**, **DL7ZN**, **DF56G**, **DL7LP**, **DK2VQ**, **DK1PD**, **DL8JR**, **DL7AN**, **DL7ON**, **DL7SI**, **EA3CNY**, **DJ2YE**, **DK3KD**, **EA3MM**, **EA3BN**, **EA3BR**, **EA3CA**, **EA3CR**, **EA3CV**, **EA3DF**, **EA3AFM**, **EA3AT**, **EA3RCR**, **EA3AIR**, **EA3ALV**, **EA3ZY**, **EA3IH**, **EA3JA**, **EA3ON**, **F3TV**, **F5FN**, **F6ARC**, **F6BEE**, **F6KAW**, **F6ZQ**, **F6ASS**, **F6B80**, **F6BFX**, **F6AGN**, **F6DJB**, **F6DZS**, **F6E3B**, **F6E9P**, **F6FLV**, **F6GDK**, **F6GIF**, **F6GWV**, **F6HCU**, **F6HMO**.

G3SSO, **G3FXA**, **G3M2V**, **G3NKS**, **G4BEZ**, **G5EBU**, **GR0V**, **G6UW**, **G37AY**, **G37R**, **G4RU0**, **G4FAM**, **G4JC**, **G3NXX**, **G3RFL**, **G3TDD**, **G4KTV**, **G4AAL**, **G4NEC**, **G82MM**, **G3R2I**, **G3XVR**, **G4DSE**, **G4GXL**, **G8UIY**, **G03HFH**, **G03MBS**, **G04CHY**, **G04EDN**, **G03SXW**, **G3SXW**, **G3TFX**, **G3RRS**, **G3SJK**, **G3UKS**, **G3VPM**, **G4CEB**, **G5CMC**, **G5DQY**, **HA9KOL**, **HA9OL**, **HA9OT**, **HA9PG**, **HA9RC**, **HA9RS**, **HA9RQ**, **HA9KH**, **HA0HW**, **HA0F**, **HA0IR**, **HB9AJ**, **HB9AOF**, **HB9BAO**, **HB9BRW**, **HB9BWN**, **HB9CBT**, **HB9CCT**, **HB9CJO**, **HB9AYZ**: **Stoekci**, **Schuetz**, **HE9OZH**: **HB9RE**, **HB9Z**, **H65A**: **HA5FM**, **HA5FN**, **HA5GF**, **HA5J**, **HA5LN**, **HA5MK**, **HA5OM**, **HA5PP**, **HA7RY**, **Budai**, **HG6V**: **Laszlo**, **Laszlo**, **Geza**, **Lajos**, **Gyozo**, **Istvan**.

I2UIY & **I2PJA**, **JA3YEE** & **JA3JF**, **JA3WLF**, **JA6HFV**, **JA1YCL** & **JG16G**, **JK1JSS**, **JE2RQU**, **JH8MHZ**, **JABYAK** & **JABRWU**, **JA8TUJ**, **JA0CGH**, **JH7WUJ**, **JR7JLH**, **JH7ISE**, **JA1YAD** & **JA10GC**, **JK1AES**, **JE2QIZ**, **JA3XIS**, **JR6JQE**, **JH0DRT**, **K1EB** & **W1XK**, **K1GSK** & **W81PFP**, **K1RO** & **A1HS**, **KB1V**, **K1RU** & **K1YR**, **K1XA** & **W10D**, **AA2Z**, **K1XM** & **K1PR**, **N1EE**, **K2BA** & **K8BMF**, **K2TD** & **Net**, **K3QMR** & **W3YD**, **WB3KKX**, **K486C**, **K3ZUF** & **KF3R**, **K4EYB** & **K4YEP**, **K5KG** & **KD4M**, **WN4KKK**, **K5TU**, **K5VWV**, **N5DU**, **W5SG**, **K5RX** & **KM5R**, **K6ANP** & **K6LRN**, **KK6X**, **N6DCJ**, **K6DC** & **K6KCM**, **K6MA**, **N6ST**, **W6BJH**, **K6HH** & **K6AHC**, **K6SG** & **KV6H**, **K6XY** & **K6PY**, **N6JF**, **N6VV**, **K7CS/8** & **WA8ECN**, **K8AOM** & **AC8W**, **A18D**, **K8DD**, **K8MJZ**, **K8KQ**, **KJ8A**, **WA8AR**, **WA8MEC**, **W8BCRY**, **K8US** & **W8BJR**, **K8RWL** & **K8PFC**, **K8UAA**, **K8QB**, **K8OCL**, **K8ML**, **KJ8O**, **K83GX** & **WB3FZ**, **K8HJUZ** & **K8BHX**, **K82CR** & **KC2JX**, **K24HUJ**, **WB2CAA**, **K83MM** & **N3ARK**, **K6B6ST** & **K6CSL**, **N6CVX**, **K80FP** & **K80NR**, **K80H** & **W00EWD**, **KJ5W**: **AK5V**, **K5EE**, **KV5Y**, **N5WS**, **K17AF** & **AL7DH**, **KL7BK**, **KQ2D** & **K2BK**.

LA1H: **LA4KO**, **LA8UI**, **LA9OI**, **LZ1KKA**: **Mihova**, **Mihov**, **Dobrenov**, **LZ2KEF**: **LZ2CC**, **LZ2PD**, **LZ2HE**, **LZ2DF**, **LZ1A310**, **LZ2KLR**: **Marinow**, **Petrov**, **Zamtirow**, **LZ2KSO**: **Kirilov**, **Nikolov**, **NK1A** & **K1UO**, **W11HN**, **N1TZ** & **K1SF**, **K1DKX**, **K1FIR**, **K1IU**, **K1ERF**, **N1ACU**, **M2CG** & **N2KW**, **WA2BOT**, **W82RNT**, **N4AR** & **N1GL**, **K1NA**, **N4KG**, **W8KIC**, **WA8TBO**, **N4KE** & **AJ2E**, **KJ4V**, **W4FDA**, **W4QRT**, **WA4SGF**, **N4RU** & **N4HI**, **N4OL**, **N4PN**, **N4TZ**, **W8ZF**, **N4RV** & **N4RA**, **N4XM** & **KC4WQ**, **N4FA**, **N6CW** & **K1LL**, **K7V**, **N6DHW** & **K6RIR**, **N6IC**, **WA6TLA**, **N6IG** & **N6NE**, **N6MG** & **KD6PY**, **N6ND** & **N6SO**, **N6ZL**, **W6UQF**, **WA6DRC**, **N6RZ** & **W6NV**, **N04I** & **K44MNS**, **K54O**, **NC6T** & **NF6H**, **W6CPC**, **W6TSE**.

OE1NB & **OE10SA**, **OH2AA**: **OH2BNP**, **OH2BGS**, **OH2BU**, **OH2JA**, **OH2VY**, **OH2YV** & **OH2BAZ**, **OH2EN**, **OH3AC**: **OH3BJ**, **OH3ST**, **OH5BN** & **OH5BB**, **OH5LP**, **OH5UQ**, **OH7AB**: **OH7PF**, **OH7UJ**, **OH7VR**, **OH8AV**, **OH8FP**, **OH8SW**, **OH9PH** & **OH9UW**, **OH9AL**: **OH2PD**, **OH2FS**, **OH2LP**, **OK1KQJ**: **OK1AYP**, **OK1AZG**, **OK1BY**, **OK1DC**, **OK1DLE**, **OK1DVB**, **OK1ICM**, **OK1IMP**, **OK1IMR**, **OK1LAX**, **OK1KRB**, **OK1ALW**, **OK1AGW**, **OK1D1M**, **OK1DWA**, **OK1KSO**: **OK1AEZ**, **OK1AMF**, **OK1JWC**, **OK1JUB**, **OK1JKT**, **OK1JWA**, **OK1SF**, **OK1F7**, **OK1KTU**: **OK1ADU**, **OK1DKA**, **OK1MSN**, **OK1KUA**: **OK1ASQ**, **OK1-22317**, **OK1KYS**: **OK1DEY**, **OK1KRF**, **OK2KYC**: **OK2BSK**, **OK2BUC**, **OK2S0M**, **OK3KEE**: **OK3CGG**, **OK3CTL**, **OK3MB**, **OK3TKA**, **OK3KTD**: **OK3CES**, **OK3TBA**, **OK3TCF**, **OK3TCV**, **OK3RJB**: **OK3CKW**, **OK3CQD**, **OK3CCR**, **OK3SEM**, **OK3CTL**, **OK3TD0**, **OK3-26627**, **OK3RKA**: **OK3CPC**, **OK3TAM**, **OK3TDP**, **OK3-26016**, **OK3-27254**, **OK3-27256**, **OZ5EDR**: **OZ1HET**, **OZ30N**, **OZ9SN**.

PA6GN: **PA6ERA**, **PA6GAM**, **PA6GIN**, **PA6VAJ**, **PA1E**: **K800**, **K3NA**, **K4BAI**, **N4TD**, **W6OAT**, **R5I**: **Club**, **SK5AA**: **SM5ACD**, **SM5APS**, **SM5FUG**, **SM5KAS**, **SK5LIM**: **SM6CJU**, **SM6DRD**, **SM6FSK**, **SM2JUR** & **SM2JBE**, **SM6NGO** & **SM6GLC**, **SM6GNU**, **SP2ZJF**: **SP2ASJ**, **SP2PFA**, **SP202E**, **EL**, **SP3KCL**: **SP3CQC**, **SP3JUI**, **SP-1151**, **PO**, **SP5KTR**: **SP5DWE**, **SP6SA**, **SP0081UG**, **SP6PZA**, **SP6JG**, **SP6HEK**, **SP9PDC**: **SP9GSC**, **SP9-2291**, **UK1TBB**: **UA1TAI**, **UA1TDS**, **UA1UW**, **UK2AAP**: **Club**, **UK2AAQ**: **Club**, **UK2AAK**: **UC2AFC**, **UC2008-119**, **UC2009-522**, **UC2009-523**.

UK2ABC: **Gettmann**, **Novikov**, **Solobov**, **UK2ABN**: **UC2AAP**, **UC2009-575**, **UC2009-593**, **UK2BAG**: **UP28AD**, **UP28AE**, **UP28V**, **UP28Z**, **UP2DT**, **UK2BAP**: **Club**, **UK2BBB**: **UP2BJ**, **UP2MB**, **UP2PAJ**, **UP2PX**, **UP2038-727**, **UP2038-892**, **UP2038-938**, **UP2038-1036**, **UP2038-1052**, **UK2BBF**: **UP2BJ**, **UP2BV**, **UK2BBG**: **UP2BAT**, **UP2BFV**, **UP2BJA**, **UK2BBX**: **UP2BJU**, **UP2038-1051**, **UK2BCC**: **UP2BJK**, **UP2038-728**, **UP2BDW**, **UP2038-271**, **UK2BDCM**: **UP2BFU**, **UP2BKS**, **UK2BCO**: **UP2038-1050**, **UP2038-1049**, **UK2GDZ**: **UQ2GAE**, **UQ2GFM**, **UQ2037-168**, **UQ2037-261**, **UK2GJL**: **UQ2GEJ**, **UQ2037-91**, **UK2GKO**: **UQ2GCT**, **UQ2GFD**, **UQ2PP**, **UK2GKW**: **UQ2GKM**, **UQ20C**, **UQ20I**, **UQ2037-83**, **UK2PAM**: **RP28FU**, **UP2038-794**, **UK2PAO**: **UP2BHN**, **UP2BIC**.

UK2PAP: **UP2BCL**, **UP2BIM**, **UP2NV**, **UP2OX**, **UP2038-1665**, **Ptras**, **UK2PAT**: **UP2038-439**, **UP2BCW**, **UP2BCD**, **UK2PBR**: **UP2038-1541**, **UK2PCR**: **UP2BCT**, **UP2BGR**, **UP2BCT**, **UP2BDF**, **UP2BEY**, **UP2BFI**, **UP2BFL**, **UP2BIO**, **UP2PAV**, **UP2PCI**, **UP2038-1620**, **UK2PRC**: **UP2BBM**, **UP2BIL**, **Laimas**, **UK2RDX**: **Club**, **UK2TBC**: **Club**, **UK3ACM**: **Club**, **UK3APV**: **UK3ACW**, **UK3ADP**, **UK3BVR**, **UK30BV**: **UA3DFO**, **UA3142-1762**, **UA3142-1770**, **UK3TBF**: **Club**, **UK3XAB**: **UA3XAC**, **UA3127-200**, **UA3127-204**, **UA3127-216**, **UA3127-322**, **UA3127-348**.

UK4ACE: **Club**, **UK4FV**: **UA4FBL**, **UA4FCD**, **UA4FCM**, **UA4FDY**, **UA4148-273**, **UK4LAZ**: **UA4LJA**, **UA4LBE**, **UA4LBN**, **UA4LCL**, **UK4APNZ**: **Club**, **UK4WAA**: **UA4WBG**, **UA4WBG**, **UA4WBY**, **UA4095-510**, **UA4095-511**, **UK4WAB**: **Club**, **UK5AAZ**: **UB5AAL**, **UB5ABD**, **UB5ADN**, **UK5EST**: **Club**, **UK5FAB**: **UB5FCF**, **UB5FEL**, **UB5070-677**, **UK5GKW**: **Club**, **UK5HAB**: **EZ5HB0**, **UB5071-73**, **UK5IGL**: **Club**, **UK5MFA**: **R85MUV**, **UB5MDC**, **UB5MJX**, **UB5MNM**, **UB5MNX**, **UB5MOA**, **UY5LK**, **UK5MCO**: **UB5MRN**, **UB5MST**.

UK5MCP: UA8BDD, UB5MDJ, UB5MLV, UB5MPD, **UK5MCT:** UB5MRI, UB5MRM, **UK5MDI:** UB5MBM, UB5MJS, UB5059-5, UB5059-6, **UK5MVE:** RB5MHY, RB5MUQ, UB5MAQ, UB5MRB, **UK5NAJ:** UB5NBE, UB5NDA, UB5057-273, **UK5QBE:** UB5064-1353, UB5064-1362, UB5064-1528, **UK5QCI:** Club, **UK5UDX:** UA4LAR, UB5LAR, UB5RCA, UB5UCE, UB5UCF, UB5065-2, **UK5YAA:** UB5YAE, UB5YAH, UB5YAR, UB5YAW, UB5YBX.

UK6AJN: Club, **UK6APP:** E76ACB, E76ADW, UA6ARX, **UK6ARA:** UA6APL, UA6APU, **UK6FAA:** Club, **UK6FAB:** Club, **UK6LAA:** Kozadaev, Khanin, Korovkin, Liokumovich, Lariyonov, UB5073-1133, **UK6LAZ:** UA6LHK, UA6LIG, UA6150-1067, UA6150-1060, UA6150-1070, **UK6LEZ:** UA6LHO, UA6LJE, UB5LW, UB5MGZ, **UK6LTA:** UA6LAM, UA6LWD, UA6LYO, UA6150-621, UA6150-686, UA6150-688, **UK6PAA:** Club, **UK6QAA:** Club, **UK9AAN:** UA9AIS, UA9AJD, UA9AKI, UA9ALP, UA9QBS, **UK9ACP:** UA9AAP, UA9AAE, UA9ADY, UA9AFO, UA9AGY, UA9165-1635, **UK9ADS:** Club, **UK9ADY:** UW9AT, UA9AFZ, UA9AFH, UA9ADH, **UK9AEC:** Gordievskikh, Zaev, Kovalyov.

UK9FER: UA9FAR, UA9FAL, UA9FAJ, UA9FDW, UA9FGJ, **UK9OAZ:** Club, **UK9OBB:** UA9OCB, UA9ODH, UA9145-805, **UK9SBI:** UA9SGC, UA9SHU, UV9SA, UV9SG, UV9SG, **UK9WAT:** Club, **UK9QAA:** UA8ODL, UA8ODW, UA8ODN, UA8098-74, **V3MS:** W0CP, W0UN, **VE1DXA:** VE1BSB, VE1FH, VE1MX, VE1UG, VE1YX, **VE3MFA** & **VE3IUE,** VE3KTC, VE3LWL, VE3MFE, **VE3OCU:** VE3MHA, VE3MPX, **VE5DX** & **VE5AAD,** VE5RG, VE5XK, **VE7WJ:** VE7ZZ, W7XN, W7ZR.

W1BK & **N1BHI,** **W1BR,** **W1RM** & **K1JD,** KA1BUO, W1BIH, W1WEE, W1XX, **W2RQ** & **W2SQ,** **W2UI** & **N3KR,** **W3BGN** & **K2RMI,** KC2X, WA2ZKY, **W3KFO** & **K2JLT,** **W3NZ** & **KA1CQM,** KD3H, **W4BPD/C6A** & **KA3DAG,** **W4NL** & **K3A0,** K3KG, K4FJ, KA4S, KU4AW, N4TX, **W5RRR** & **K5GN,** KG5U, KN5F, KN5H, **W5WHR,** **W6BSY** & **Net,** **W6W0W** & **AG6D,** N6BV, N6BZA, **W6BDSV,** **W6B6RA,** **W6UA** & **W6UM,** **W6VYX:** N3ER, **W6BITV,** **W7NI** & **A17B,** **W7RX** & **K7XX,** W7YOZ, W7YFF, W7YFN & **AD8P,** **W8WE:** AJ8T, **KB8FO,** **KA8MDM,** **KB8MG,** **KC8AU,** **KC8NH,** **N8BAZ,** **N8CJR,** **W8FF** & **K8K,** **W8WYJ,** **W8NA** & **W8AR,** **W8CW,** **W8FNO,** **W8ICNM** & **N16VZ,** **W8BPF** & **K8RMM,** **N8CJD,** **W8PBS,** **W8ZK,** **W8XSN,** **W8VTS,** **W8MDG,** **WL7E** & **NL7K,** **KL7EC.**

XE2BC: N60P, N6TU, **Y23DL** & **Y23CL,** Y27DL, **Y32ZN:** Y32UQ, Y32WN, **Y41ZA:** Y23BA, Y41VA, Y41ZA, Y417F & Y21CF, **Y43ZK,** Y22BK, Y32YQ, **Y50ZA** & **Y45SA,** Y50YA, **Y0BKGA:** Y0BDD, Y0BDAY, Y0BRF, **Y0BKGH:** Y0BAIN, Y0B8M, **YU3EY** & **YU3BO,** YU3FK, YU3SO, YU3MY, YU3TVI, F50Q, **YU4EXA:** YU4WFT, YU4VRA, YU4WFN, **4A2D:** XE2AQ, XE1BGM, XE2GDD, **6Y5JW:** VE3DAP, VE3IYS, **9Y4KG:** W6KG, W6OL.

STATION OPERATORS Multi-Operator Multi-Transmitter

A16V & **N86G,** N6KT, K86F, W6MYP, W6UYKM, W6EEN, W6BFI, K6KLY, **DLOKF:** DJ8FR, DF3LP, DJ2BL, DJ4FZ, DK8LE, DF6LL, DJ7SW, DL5LC, DK8LD, DK7LJ, DF6LH, DJ4SO, DL22T, DF3LZ, DL2NF, DJ2LQ, DK9AV, **FO8KP:** W6SZN, N6TV, AAG6, **HZ1AB:** K0JJ, W7KJJ, W8BMOA, N6OL, **J11YAG:** J11OHP, JF2FDH, JH7NZU, JH8GG, **J11YHA:** JH4TS, J11AEB, J11SE, JA40YR, J11UEF, **J11YXP:** JH8NPR, JH40WG, JA7WFS, JA8WGG, JF2QHM, **JAZ2YF:** JR2PVI, JR2TPD, JR2TWA, JR2UWZ, JF2FRJ, JF2KIH, JF2RDI, JF2RWP, JF2UGT, JF2WBH, JF2WJB, JF2ACB, JF2ERH, JF2NFC, JF2NTV, JF2P5F, JF2VRV, JF2WMP, JF3EIT, JH4XV, JH9LW, **JAZ2YKA:** JG1GIF, J11BTA, JF2NOC, JF2ROT, JF2SRB, JH2QXG, JR2GMC, JH4VBQ, JH6RPZ, JA9NFO, JA9SSY.

JAZ3YF: JE3PAS, JE3PED, JF3KKO, JF3PGA, JG3GKK, JG3G0B, JG3IUG, J13RPF, J1KQWZ, JH4CES, JH4IFF, JR4AGT, JH5BIT, JH5JKH, JA9TAF, JA9TOZ, JA3-3035E, **JAZ3YK:** JE3BLA, JASTDH, JR4BSM, JR3FRR, JH3PKS, JF3PMM, JH3PRR, JA5M0U, JF3RAL, JE3MXX, JH4PAM, JG3IOU, JH6JNF, JE3MAS, JH4WER, JG3LLB, JF3SFP, JH3VOT, JR3KEG, JA5GZB, JA3ODL, **JA4YEB:** JR2EVI, JH4AQA, JH4MBE, JH4NJC, JR4CJ, JR4M0D, **JA6YDH:** JE6DSG, JA4JYL, JF6ASN, JH6MWG, JH6NLY, JH6RAD, JH6SWF, JE6LFG, JEGSAY, JG1TAW, Kamito, **JA7YAA:** JG1IGW, JR2NKG, JH7AEF, JH7CUO, JH7GFO, JH7HWR, JH7LIS, JH7JUN, JH7WTC, JR70MD, JR7SEI, JF7AWM, JH88ME, **JA9YBA:** JA9DZS, JA9LJI, JA9LJN, JA9LWB, JA9OXT, JA9AUD, JH8CAZ, JH8HHU, JF1YPF, JH10GC, JR1MTS, JR1UTC, JG16GF, JF10DD, J11AJT, J11K1Z, J11KYN, **J11YDT:** JF1EAL, J11CPG, J11FLU, JH6UUN, JA8VSH, JH8HNI.

K1OX & **N1RC,** **WB8BH,** K1VR, K1RX, W1VF, K1CF, K81T, **K1ZZ** & **K1BW,** K1CC, K1GX, K1TC, W1GNC, AK4L, **K2TR** & **K2WR,** K1CO, **K2UA** & **W3XU,** N3RD, N2ME, N2BA, WA2GHM, WA2SFB, **K6XO** & **W1ARR,** N6AU, AA4KB, KD6ZL, **K6ZM** & **K2PV,** AK6T, N86I, WA6JZ, K9GL & **K9BG,** **WB9TIV,** K9RS, W9D1C, W9DFV, K9NO, K9J9, K9HMB, **WB9CAS,** K9PV, A69A, **KD6NH** & **N6KB,** **KN6M** & **AH6Z,** A6DX.



Operators of YW5A: (standing, left to right) John, YV5AAQ; Ray, DL2GG; Billy, YV5ANE; Edwin, YV5HUJ; Mike, YV5AAZ; Hermes, YV5DFI; Piti, YV5NN; Mauricio, YV3BDQ; (front, left to right) Jorge, YV4BMV, and son; Ali, YV2BE; Napo, YV5BNN; and Joe, YV5ANT.

KD6T, KJ6V, KB6YF, N6PC, W6MFE, N6DN, KB6XN, N6RPL, WA6AVS, WB6KNU, Betty, Sonya, **N2AA** & **K2GL,** K2BO, K2NG, K2GM, K2TW, K2SS, K2TT, KR2J, KR2O, KR2W, KU2M, K5NA, **N2RM** & **N2ATX,** N2MM, KB3TN, **N3RW** & **W3YFV,** **N5RM** & **NS4M,** AA5C, K5U, K5MM, KM5X, N5BQQ, **N6RO** & **N6XI,** N6CN, WA6DII, WA6WEQ, K6XM, K9LB, K87SC, **N9MM** & **K9UWA,** W9LT, N9NC, K9CC, K9FN, N9NS, K89AF, K9JF, **WB9STD,** W9RE, **WB9POH,** W9ZRX, W99BF.

OH1AA: OH1LF, OH1LQ, OH1MD, OH1NH, OH1O, OH1OG, OH1RM, OH1SV, OH1SW, OH1SY, OH1TV, OH1W, OH2PQ, OH3OM, OH3ZE, OH5NG, **OH2AW:** OH2BNP, OH2BPN, OH2BOS, OH2JA, OH2BBH, OH2BEQ, OH2JG, OH2EE, OH5UX, OH5XL, OH6UM, **OH3AA:** OH2CR, OH2DT, OH3JU, OH3JR, OH3XT, OH3WS, OH3XS, OH3TO, OH3VI, OH3EQ, OH3WZ, OH3KS, OH3RF, OH3IQ, OH3XZ, **OK1KPU:** OK1AXA, OK1JAX, OK1JDX, OK1DL, OK1MMW, **PA6WV:** PA3ABA, PA3ADJ, PA3ADM, PA3BFM, PA3BFX, PA3BIL, PA3BTH, PA2DYX, PA2PMF, PA8AAJ, PA8MA, PA8JWK, PA8LV, PA8SKP, PA8VDV, PA8PSK, PA8KCR, F6DXE, **U2R:** UR2FU, UR2HU, UR2IG, UR2HB, UR2JW, UR2MS, UR2RAM, UR2RC, UR2RF, UR2RM, UR2TAB, UR2-083-910, **Y1BR:** YU1EW, YU1UU, YU1DF, YU7OC, YU7OZ, YU7OB, YU7OFK, **YU3APR:** YU3FR, YU3FK, YU3DM, YU3BO, YU3SO, YU3TUX, YU3EO, YU3TV, YU3EY, **W1YN** & **AG1C,** AK1A, KA1O, **W2PV** & **K1DG,** K1JX, KA1R, KC1D, N2NT, WA2SPL, K2SX, K2XA, K3UA, WA3ZAS, **W3GM** & **K3GM,** K3DA, K3ND, K3DF, W3VF, N3VV, N3AMK, **WB2YCF,** **KB3GJ,** **W3LPL** & **A13M,** K3DI, K3RA, K3EST, W4AXM, K3RV, K4TW, WA3UXU, **W3NX** & **AD3V,** N8NA, **W6XJ** & **W6TPH,** A6EU, N6OW, 4X4WN, N6TH, K6TBM, N6DCK, W6CF, K6HZZ, **WB4IH** & **WA0RBW,** K0FVF, N0NO, K0TG, N0BIH, K0BO, W0RIF, **ZK2RU:** K6RU, A6AD, W6VG.

U.S.A. Club Scores

Northern California Contest Club	160,376,446
Yankee Clipper Contest Club	159,837,851
Frankford Radio Club	155,503,310
Potomac Valley Radio Club	70,587,887
North Texas Contest Club	27,056,996
San Diego DX Club	19,767,727
Murphys Marauders	19,726,822
Mad River Radio Club	19,030,623
Ill-Wind Contesters	15,278,585
Southern California DX Club	14,818,780
Southeastern DX Club	14,578,462
Northern Illinois DX Association	10,981,070
Texas DX Society	10,102,624
Williamette Valley DX Club	8,654,889
Eastern Iowa DX Association	8,418,034
Rubber Circle Contest Club	8,322,335
Greater Milwaukee DX Association	7,407,480
Kansas City DX Club	5,146,050
Central Virginia Contest Club	5,049,640
Northern Ohio A.R.S.	4,989,705
Albuquerque DX Association	3,661,073
Michigan DX Association	3,608,046
Northern California DX Club	3,554,105
Vulcan DX Club	3,364,102
Central Arizona DX Association	3,287,775
Northern Ohio DX Association	3,138,514
Colorado Contest Conspiracy	2,994,662
Alamo DX Amigos	2,962,474
Western Washington DX Club	2,753,681
Neenah-Menasha A.R.C.	2,478,717
Rochester DX Association	2,270,349
Sheboygan County DX Association	2,047,596
Gloucester County A.R.C.	1,931,336
Lynchburg A.R.C.	1,908,092
Northern Florida A.R.S.	1,829,554
Mississippi Valley DX and Contest Club	1,735,452
DX Association of Connecticut	1,333,377
Meridan A.R.C.	1,311,858
Hart House A.R.C.	1,305,985
Southwest Ohio DX Association	1,286,995
Northern Florida DX Association	1,027,598
Montgomery A.R.C. (MD.)	882,283
Long Island DX Association	784,397

DX Club Scores

Lithuanian Contest Group	22,685,926
Voroshilovgrad Radio Club	19,432,964
Kaunas Polytechnic Institute R.C.	19,336,688
Southern German DX Group	17,578,259
YU DX Club	14,258,804
Halifax A.R.C.	10,708,702
Rhein Ruhr DX Association	9,649,907
Alaska DX Association	9,213,800
The Bullmertz (Sweden)	8,769,208
Ontario Contest Club	8,469,309
Tallinn Radio Club	7,731,089
Fraser Valley DX Club	7,379,093
CW YV Club	5,625,000
Israel DX Club	4,199,232
Marianas Amateur Radio Club	2,932,220
Northern Lithuania DX Group	2,851,453
Saar Pfalz DX Club	2,386,318
Danish DX Group	1,924,050
A.S. Filaret DX (Romania)	1,782,274
Grupo Argentino de Radiotelegrafia	1,771,479
SP DX Club	685,857
ES DX Club (Poland)	268,447
ZSTC (Ukraine)	143,728
Szkolny Club (Poland)	107,739
SP6PAZ Club	53,390
"Iskra" Krzeszowice (Poland)	52,770

Addendum: The Kansas City DX Club in the 1980 Contest was credited with a score of 2.9 MEG points, but actually the score should have been 8.1 MEG due to the omission of the Multi-Phone score from AB0I. We apologize for this mistake.

C.W. TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BAND

World
Martti Laine, CT3BZ
 *Donor: Albert Kahn, K4FW (W2AB Memorial)

World—QRPP
Ted van Beek, AC2U
 Donor: Gene Walsh, N2AA

U.S.A.
Willard L. Myers, K1GQ
 Donor: Frankford Radio Club

Canada
Jim Roberts, VE3IY
 Donor: Canadian DX Association

Carib./C. A.
Ivan R. Belvis, Jr., WP4BDS
 Donor: Jim Neiger, N6TJ

Europe
Al Slater, G3FXB
 Donor: Edward Bissell, W3AU

Africa
FR0GGL
 Donor: Gordon S. Marshall, W6RR

Asia
Alexander Nicolaevich Karamian, UF6CR
 Donor: Japan CQ Magazine

Japan
T. Aoyama, JA1IDY
 Donor: Palm Garden Contest Club

Oceania
Thomas H. Schiller, N6BT/AH0
 Donor: Maui Amateur Radio Club

SINGLE OPERATOR, SINGLE BAND

World
Jorge Humberto Bozzo, LU8DQ (21 MHz)
 Donor: W2JT Memorial, No. Jersey DX Assoc.

World—3.5 MHz
Francesco Chiodini, I4IND
 Donor: Fred Capossela, K6SSS

U.S.A.
Stephen F. Biddle, K6EWL (21 MHz)
 Donor: No. Illinois DX Association

Canada
Kari Korhonen, VE1BRB (14 MHz)
 Donor: Canadian Amateur Radio Federation

Carib./C.A.
Isaac Novoa-Lopez, NP4DA (21 MHz)
 Donor: DX Club of Puerto Rico

Europe—14 MHz
Markku Nyssonen, OH8SR
 Donor: G2LB Memorial (From Friends)

South America
Franklyn Brooker, 9Y4VU (28 MHz)
 Donor: Rafael Ponce de Leon, CX3BR

MULTI-OPERATOR, SINGLE TRANSMITTER

World
P41E (Oprs. K4BAI, N4TO, W6OAT, K3NA, K00O)
 Donor: Anthony Susen, W3AOH

U.S.A.
N1AC (Oprs. N1AC, W1IHN, K1UO)
 Donor: Douglas Zwiebel, KR2Q

MULTI-OPERATOR, MULTI-TRANSMITTER

World
W2PV (Oprs. K1DG, K1JX, KA1R, KC1Q, N2NT, WA2SPL, K2SX, K2XA, K3UA, WA3ZAS)
 Donor: Hazard Reeves, K2GL

U.S.A.
N2AA (Oprs. K2GL, K2BQ, K2NG, K2GM, K2TW, K2SS, K2TT, KR2J, KR2Q, KR2W, KU2M, K5NA)
 Donor: James Rafferty, N6RJ

CONTEST EXPEDITIONS

World—Single Operator
SU1AA (Opr. Ville Hiilesmaa, OH2MM)
 Donor: Yankee Clipper Contest Club

World—Multi-Operator
ZK2RU (Oprs. K6RU, AA6AD, W6VG)
 Donor: Bill Schneider, K2TT

SINGLE OPERATOR—ALL BAND

World—Phone/CW Combined
Martti Laine, OH0BH/CT3BZ
 Donor: John Knight, W6YY

CLUB TROPHIES
World—Phone/CW
Northern California Contest Club 160,376,446
 Donor: CQ Magazine

MOST IMPROVED—PHONE/CW

Northern California Contest Club
 Donor: Southeastern DX Club

WORLD TOP 10 QRPP

(5w input)

All Band

1.	AC2U	591,856
2.	N3RS	577,205
3.	UP2BFC	441,881
4.	OK2PDL	321,984
5.	K4LTA	281,082
6.	N4BP	268,832
7.	AJ7S	267,544
8.	VE3KZ	261,632
9.	HP1XAT	253,215
10.	DF4RD	220,712

Number groups after call letters denote following: Band (A = all), Final Score, Number of QSO's, Zones, and Countries. Certificate winners are listed in Bold Face.

C.W. RESULTS

SINGLE OPERATOR NORTH AMERICA

UNITED STATES

K1GQ	A	3,276,768	2111	138	390
K1KI	"	3,169,751	2044	132	401
K1AR	"	2,916,822	2003	130	371
W1KM	"	2,528,120	2034	121	319
W1DA	"	1,748,810	1442	116	299
W1PH	"	1,581,306	1298	105	314
W1ZT	"	1,323,084	1177	110	289
W1RR	"	1,289,148	1093	115	297
K1SA	"	1,178,532	1208	96	246
W1FJ	"	947,076	973	89	249
KG1E	"	851,390	922	93	223
A1E	"	548,386	740	76	178
AB1U	"	480,896	589	83	208
K1K	"	368,460	468	89	187
W1NG	"	368,368	448	105	194
K1JB	"	344,796	544	72	164

W0MH/K/1	"	258,120	434	68	148
K1BV	"	227,664	514	45	108
W1CNU	"	175,062	300	52	127
W1LOQ	"	162,985	340	54	131
K1FWF	"	157,094	166	68	161
AD1F	"	132,396	267	54	123
W1IUU	"	117,465	228	60	131
N1AU	"	107,200	234	52	108
W1HUE	"	89,708	205	52	112
KA1FGH	"	86,394	255	32	87
W1NRT	"	81,515	210	41	96
W1HX	"	77,832	151	61	123
KA1CLV	"	70,795	176	48	95
KD1U	"	56,529	201	27	72
KB1U	"	45,864	152	35	69
KA1CY	"	37,922	102	51	83
K1VHS	"	27,141	92	37	72
W10PJ	"	11,350	76	15	35
W1PLJ	"	6,216	53	15	27
W1WAI	28	292,125	801	30	95
W1GNR	21	217,002	636	32	86
KA1FCF	"	201,135	605	27	88
W10PJ	"	113,500	76	15	35
N1EHL	"	57,482	245	22	60
KA1EHR	"	3,136	44	11	21
W10NR	21	217,002	636	32	86
W1AFCN	"	191,646	557	30	87
W1END	"	50,072	198	28	60
K1IWL	"	39,809	185	23	54
K1E1F	14	172,099	526	31	82
KA1BTF	"	10,971	74	16	37

K1MA	7	215,424	719	24	78
AA1M	"	37,530	197	17	53
W1BWS	"	9,374	77	10	33
W1ZM	3.5	151,497	610	22	71
K1PBW	1.8	6,160	61	17	27
K1MEM	"	5,964	65	14	28
W1BB/1	"	1,533	25	8	13
K2VV	A	2,783,920	2079	118	342
W2REH	"	2,777,236	1857	135	373
N2LT	"	2,768,157	2135	118	323
W2VUN	"	2,374,930	1554	142	388
A2EA	"	2,227,357	1653	123	350
W2GD	"	2,171,310	1630	126	335
W2IB	"	2,128,475	1560	127	348
K02M	"	1,784,727	1427	120	321
K2BU	"	1,692,186	1399	112	305
W2TA	"	1,517,820	1278	112	298
W2VC	"	1,217,200	1067	104	296
W2GGE	"	951,709	915	90	269
K2NJ	"	921,284	882	103	261
N2JJ	"	850,698	897	95	239
W2TZ	"	752,740	858	82	223
K2QF	"	738,390	796	105	221
N2UN	"	708,671	761	91	240
N2DT	"	701,244	774	87	215
K2FO	"	567,056	613	89	243
N2MR	"	473,224	569	88	210
K2PA	"	470,470	599	84	202
W2FTY	"	393,104	444	96	215
K2KE	"	351,671	540	80	163
W2IY	"	301,158	388	85	201
W2GK	"	291,510	434	72	174
W2AYJ	"	281,441	438	69	159
K2GHV	"	270,572	535	53	120
K2BZ	"	222,768	344	72	166
N2AIF	"	212,898	336	68	154
AC2L	"	173,880	459	38	97
K2SH	"	159,960	329	51	121
K2SHL	"	154,470	294	58	132
W2AORX	"	148,887	256	75	138
W2GUP	"	142,677	251	48	143
W2ZLJM	"	141,328	277	56	120
K02N	"	132,129	297	49	110
W2PHT	"	114,924	242	52	105
K2RD	"	111,540	237	54	115
K22NU	"	67,045	200	37	78
W2WDM	"	56,980	147	52	68
K2YGM	"	47,946	151	44	78
K2ZRR	"	45,632	198	43	61
K2ZL	"	35,518	119	45	73
K2CZ	"	24,656	98	40	52
W2HD	"	20,460	82	32	61
N2DNB	"	20,460	82	32	61

KA21BT	"	18,392	88	26	50
W2XQ	"	9,246	48	28	41
KA2FEW	"	4,005	95	20	25
N2AWH	"	2,143	50	15	13
KA2IWK	"	1,674	50	17	14
N2IN	"	900	17	8	12
K2MFY	28	89,001	327	26	67
KA2MNU	"	27,090	135	21	49
N2AU	21	406,640	1021	35	101
W2AZHR	"	195,536	560	33	88
W2ALOG	"	105,576	348	29	77
W2RZF	"	33,884	141	28	58
KA2LEB	"	29,260	133	25	52
K2MM	14	2,212	27	9	19
W2KHQ	7	23,323	129	17	47
W2ASQY	"	18,240	112	17	43
K2LP	3.5	12,960	88	14	40
N3AD	A	2,481,507	1943	119	322
K4PDL/3	"	2,250,039	1711	121	330
N3BB	"	2,168,530	1641	123	332
K300	"	2,046,268	1641	119	309
W3AF	"	1,736,954	1346	125	321
N3ED	"	1,564,620	1214	118	327
K3VW	"	1,398,768	1313	101	267
K3VJV	"	1,328,601	1396	88	239
K3VW	"	1,277,684	1148	108	280
N3R3	"	1,160,220	1092	105	261
W3MA	"	981,120	996	91	245
K3ZZ	"	898,068	787	107	295
N3AM	"	824,250	857	100	250
W3AJ	"	797,816	801	101	242
W3GN	"	761,560	850	94	222
K3TC	"	743,566	730	102	256
W3GU	"	723,142	764	99	230
K3II	"	717,570	750	92	243
N3HW	"	572,460	852	65	170
W3ARK	"	539,939	721	75	188
W3AZ	"	534,786	628	85	209
W3KT	"	469,500	529	93	220
K30X	"	442,380	539	81	211
KAJLD/3	"	421,627	511	91	202
K3CH	"	414,187	611	76	163
W3EJV	"	393,900	435	108	217
W3VK	"	354,006	454	83	194
W3GK	"	335,652	471	73	176
KA3R	"	318,586	421	85	193
W3GL	"	315,018	428	71	187
W3OM	"	296,144	461	65	158
W3GJ	"	277,777	459	78	151
W3FG	"	260,967	373	75	182
K3NZ	"	260,447	433	65	144
W3GRS	"	249,760	319	80	200
K3UC	"	205,252	365	59	135

K3JGJ	"	195,620	326	64	144
W3F5L	"	178,020	307	63	144
WA3SZY	"	147,573	309	53	118
N2MA/3	"	146,848	241	83	125
W3HDH	"	130,640	252	61	123
K3IE	"	118,192	234	54	124
WA3IMY	"	110,230	267	48	103
KA3CRC	"	106,386	253	45	104
W3GNC	"	100,080	210	56	124
W3HVM	"	99,593	223	54	109
N3NA	"	98,436	233	54	102
A3JH	"	52,138	143	46	85
K3KHN	"	49,176	181	41	85
W3BJRU	"	40,770	153	48	87
W3BCAC	"	26,712	109	32	52
W3BKIL	"	3,577	35	22	27</

TOP SCORES

WORLD

Single Op All Band

9Y4VT	5,803,776
CT3BZ	5,701,590
HK3A	4,478,204
N6BT/AH0	4,241,746
UF6CR	4,101,936
8P6J	3,868,716
K1GQ	3,276,768
K8LX	3,270,780
K1KI	3,169,751
EA2IA	3,057,204

Single Op Single Band 28 MHz

YJ8RW	612,255
OH3XZ	546,360
DL1BU	509,878
YT3L	484,120
YU3EW	466,570
JH1EDD	462,070

21 MHz

LU8DQ	1,359,711
YU3ZV	732,096
DK3GI	714,280
VE38MV	653,856
YU7OCV	459,801
K6EWL	454,648

14 MHz

OH8SR	672,600
SM0AJU	560,324
KG6DX	525,420
SM2CEW	479,820
UA9ADQ	447,874
W8UVZ	368,382

7 MHz

UA1DZ	339,532
K0RF	337,280
AB0I	335,775
YU4AW	287,538
UB5JMR	241,440
JE3MCC	240,700

3.5 MHz

I4IND	172,782
W1ZM	151,497
UC2ACA	136,394
DJ2BW	130,974
UA9TS	122,567
YU2RA	109,755

1.8 MHz

EA8AK	41,470
YV1OB	25,806
GW3NYY	21,320
OK3KFF	19,764
4X4N3	18,252
UA9SAX	17,480

Multi-Op Single Transmitter

P41E	8,059,296
YU3EY	7,674,190
YU5A	5,481,975
R5I	4,892,184
N4AR	4,564,350
UK2PCR	4,512,285

Multi-Op Multi-Transmitter

W2PV	10,431,729
N2AA	10,147,820
W3LPL	9,628,026
OH3AA	9,301,635
K2UA	9,210,792
N9MM	8,884,400

USA

Single Op All Band

K1GQ	3,276,768
K8LX	3,270,780
K1KI	3,169,751
N5AU	2,977,424
K1AR	2,916,822
K2VV	2,783,920
W2REH	2,777,236
N2LT	2,768,157
W1KM	2,628,120
K9DX	2,624,064

Single Op Single Band 28 MHz

N4ZC	382,782
W0UA	376,248
W0ZV	347,520
W8WPC	324,324
K0ZZ	323,342
N4ZZ	315,126

21 MHz

K6EWL	454,648
N2AU	406,640
K4VX/0	397,764
K8CX	358,912
K9QVB	337,410
W0KEA	306,125

14 MHz

W8UVZ	368,382
K9PPY	350,908
K0ZX	327,228
W9OA	315,315
N8CC	280,250
W9NUD	277,536

7 MHz

K0RF	337,280
AB0I	335,775
W9VNE/8	230,690
K1MA	215,424
K4PI	181,888
WD9IIX	133,118

3.5 MHz

W1ZM	151,497
N4UM	35,440
K3FN	34,100
N5CR	30,355
K3TG	18,282
WD9AHJ	13,851
N7RM	13,604

1.8 MHz

W8LRL	8,234
K1PBW	6,160
K1MEM	5,964
N4IN	5,418
K5UR	4,477
K6SE	3,496

Multi-Op Single Transmitter

N4AR	4,564,350
N1AC	4,149,032
W3BGN	3,930,997
K1XA	3,444,246
N4RJ	3,362,446
W4NL	3,253,040

Multi-Op Multi-Transmitter

W2PV	10,431,729
N2AA	10,147,820
W3LPL	9,628,026
K2UA	9,210,792
N9MM	8,884,400
K1ZZ	8,758,260

W4YN	56,682	150	46	88
N4FGF	52,200	173	42	78
W4ADR	41,580	117	41	91
W9TS/4	34,963	111	48	76
K4FPP	24,459	92	32	61
W4CGG	22,714	100	33	49
W4DGJ	17,225	99	20	45
N4ZC	382,782	1018	32	99
N4ZZ	315,126	922	32	91
WB4TDH	223,971	636	31	90
AA4AK	201,662	590	30	88
K4JSI	56,494	211	23	71
K4GPN	24,600	136	21	54
W4GTS	20,230	106	21	49
K4II/4	5,670	54	14	31
W4IO	3,168	36	11	21
N4BU	217,695	686	31	84
K4XL	174,585	534	30	83
K4HCV	89,670	324	28	70
W4JD	54,472	217	26	62
K4ARLP	12,103	97	20	29
W3Y1/4	176,292	533	32	85
W4AAV	152,460	460	33	88
N4WQ	109,545	387	30	79
N4CT	60,290	230	25	67
W4KMS	23,870	111	20	57
W4NM	4,440	44	13	24
K4PI	181,888	556	28	88
KG4W	93,177	379	24	63
W4YQ	56,430	219	23	67
W4SVO	53,222	231	23	66
N4OT	22,997	137	15	46
N4UM	35,440	175	20	60
N4SU	10,945	72	16	39
N4IN	5,418	57	14	29
W4DR	3,298	45	13	21
W4PZ	1,200	25	9	12
N4ARO	700	19	8	15
N5AU	2,977,424	2089	142	354

K5GA	2,434,864	1697	142	354
N5JJ	2,042,482	1618	130	312
K5KU	1,591,370	1432	121	288
K5NW	1,375,617	1186	123	288
N5JB	1,161,981	1084	116	256
A0SQ	776,298	851	101	223
K5LP	706,982	825	92	210
W5DV	620,366	714	99	214
K5SW	568,176	667	95	209
W5SSOG	493,190	601	97	201
K5KLA	464,648	684	73	168
K5DB	347,415	504	100	165
W5BE	273,969	440	74	145
W5OSJ	271,508	478	72	134
K5SA	240,189	495	59	118
K0QA	164,630	349	48	115
W5TEQ	118,475	246	61	114
K5MG	99,116	255	43	99
W5OF	73,304	194	46	88
W5JC	47,570	134	46	86
W5EJ	40,208	142	42	70
K5AQ	30,530	130	27	59
W5YH	27,590	93	34	43
N5UA	14,076	74	25	43
W5XZ	308,238	889	30	93
N5JW	296,582	839	30	92
N5TP	264,125	750	27	98
AF5M	225,459	653	32	91
W5YOT	117,484	449	25	67
N5CDO	95,772	365	43	68
K5RF	31,350	149	19	56
W5ASP	22,081	113	20	51
W5DDI	137,690	554	28	70
K5SF	116,674	359	33	81
AC5R	22,011	114	23	46
K5YV	16,744	114	18	34
W5FO	236,423	628	34	103
K2SCU/5	3,842	39	12	22
K5MCR	40,068	178	24	60
N5V/5	30,355	182	19	48
N8U/5	6,600	64	15	25
K5BZ	2,697	42	10	19
K5UR	4,477	72	15	22

K6NA	1,639,820	1268	141	314
N6GG	1,078,836	1039	110	263
N6AR	903,033	856	119	264
W6MSF	847,658	935	100	217
N6ZZ	809,723	792	110	251
W6SX	772,740	1016	86	184
W6KUT	728,466	848	09	208
N6JV	695,872	746	114	218
W6SQK	675,272	784	09	203
W6ISQ	651,002	703	102	224
N2YQ/6	634,644	778	103	186
N6AN	592,764	742	96	186
N6OR	498,645	571	102	213
W6NKR	416,295	458	102	217
K09E/6	416,245	515	95	200
K6PU	379,490	495	106	174
W6JMS	364,694	412	78	176
W6DEW	283,504	512	72	136
W6FDQ	258,056	432	82	134
W6WB	242,644	440	73	123
K0SM/AE	224,928	369	74	139
AD6D	221,832	366	79	137
W6BWH	208,458	316	73	149
N6ZB	207,336	460	63	100
W6LFF	200,026	237	72	134
N6NF	171,437	452	50	83
N6HK	170,753	285	69	140
KG6D	152,471	273	65	102
K6DR	131,520	344	52	85
K6LAN	122,472	271	59	103
W6KCBZ	117,735	309	52	89
N6HR	117,096	211	72	132
N6OZ	115,456	251	58	106

N6UW	107,008	264	63	89
W5FL/6	89,206	221	55	91
K6MA	81,760	221	60	86
W6MFC	78,736	248	40	72
K6SH	76,608	278	50	64
N6JM	76,038	201	57	81
W6UOL	69,960	208	47	85
W6BEXW	69,580	184	58	82
K6YRA	56,696	119	54	98
N6ESV	44,322	191	31	52
AA6DP	40,870	148	41	57
W6EYL	33,957	160	29	48
W6EYC	32,926	113	36	65
AC6H	27,528	141	34	40
W6TKT	26,329	92	51	62
N6CT	20,995	112	22	43
N6EZN	17,613	120	22	35
K6SMH	15,680	77	37	43
W6SZ	15,124	69	26	50
W6QDE	11,210	68	25	34
K6GNG	4,140	39	23	22
K6BZA	1,032	22	11	13
W6HAD	836	50	10	9
K6GXG	297	13	6	5
K6OZL	207,805	634	31	84
W6TMD	84,300	293	27	73
K6EVL	454,648	1440	35	101
N6TO	96,642	385	27	64
K6VL	76,512	278	29	67
K9WYI/6	30,060	173	21	39
W6VNR	20,764	129	21	37
W6PU	154,488	436	33	90
K6GDSW	56,052	247	24	56
K6XT	25,488	122	26	46
W6HJ	19,924	106	23	46
W6YA	133,038	408	31	83
W6AM	126,222	492	29	80
N6FS	53,448	285	22	46
W6US	9,288	110	14	22
K6SE	3,496	92	11	12
K6MO	1,020	51	8	7
W6RR/7	1,780,900	1488	129	291
W6TR	1,304,784	1035	128	314
K7ZA	844,474	936	104	209
K7YI	576,104	979	73	129
W7JYW	358,234</			

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
9Y4VT	116/9/16	385/17/43	553/23/61	1220/29/66	874/27/68	1140/28/71
CT3BZ	385/17/44	643/18/52	1324/29/72	1279/25/68	1075/22/58	
HK3A	328/14/40	320/18/51	938/24/68	925/25/67	1312/26/71	
N6BT/AH0	18/2/2	238/15/27	497/19/30	522/29/56	1587/28/60	1228/28/53
UF6CR	83/8/22	183/9/33	509/15/49	970/27/65	787/21/53	1130/20/65
8P6J	25/5/8	154/9/15	256/12/30	1457/26/57	1450/29/68	1323/26/63
K1GQ	8/7/8	208/18/61	425/24/76	576/32/85	438/31/80	473/26/80
K8LX	10/6/8	88/15/46	366/22/65	636/29/81	559/28/78	436/27/81
K1K1	17/7/11	119/17/58	311/17/67	604/32/96	464/31/84	529/28/85
EA2IA	582/15/51	659/19/58	368/25/70	591/25/66	878/26/73	

WORLD TOP MULTI-OPERATOR SINGLE TRANSMITTER

P41E	16/7/14	375/16/40	534/23/63	1636/35/97	1010/36/91	1484/31/83
YU3EY	27/6/26	89/10/55	479/31/95	618/35/131	780/36/125	2058/32/113
YW5A	9/7/6	348/16/41	580/24/66	1083/29/88	888/29/69	981/29/69
RS1	65/10/32	653/19/62	626/24/75	684/34/86	1381/31/90	1001/35/96
N4AR	17/9/16	67/16/62	461/28/92	755/34/110	499/33/101	686/32/97
UK2PCR	104/8/34	266/18/60	439/25/86	1034/32/85	780/33/88	609/33/89

WORLD TOP MULTI-OPERATOR MULTI-TRANSMITTER

W2PV	72/14/27	427/18/70	1101/30/103	1389/35/118	1228/35/103	1050/34/106
N2AA	49/12/15	461/21/70	803/26/85	1475/37/115	1314/35/113	1051/33/108
W3LPL	53/12/20	263/18/65	1012/29/106	1323/38/123	1179/35/111	875/33/110
OH3AA	250/9/36	596/17/56	941/24/81	1823/34/92	1632/31/86	1440/33/96
K2UA	41/11/17	380/18/65	1161/29/91	1051/36/119	1129/35/109	1006/33/106
N9MM	83/16/25	223/21/56	870/29/96	1253/39/115	1157/35/103	1072/33/100

USA TOP SINGLE OPERATOR—ALL BAND

Station	160	80	40	20	15	10
K1GQ	8/7/8	208/18/61	425/24/76	576/32/85	438/31/80	473/26/80
K8LX	10/6/8	88/15/46	366/22/65	636/29/81	559/28/78	636/27/81
K1K1	17/7/11	119/17/58	311/17/67	604/32/96	464/31/84	529/28/85
N5AU	15/10/11	97/15/33	386/27/68	511/33/82	538/31/73	542/26/82
K1AR	4/4/3	134/14/50	226/33/64	447/30/85	587/31/80	605/28/89
K2VV	9/3/5	109/12/38	365/19/63	584/28/83	531/29/76	481/27/77
W2REH	6/5/13	88/14/42	371/22/64	374/34/93	377/31/82	468/29/87
N2LT	3/2/1	129/12/40	434/20/66	490/28/69	445/31/69	634/25/78
W1KM	3/2/2	274/19/56	414/23/68	460/24/60	360/29/66	523/24/67
K9DX	13/7/6	89/12/41	315/22/66	464/30/78	523/30/78	509/25/79

USA TOP MULTI-OPERATOR SINGLE TRANSMITTER

N4AR	17/9/16	67/16/62	461/28/92	755/34/110	499/33/101	686/32/97
N1AC	5/4/5	104/15/53	333/27/72	1008/35/95	622/32/77	638/27/86
W3BGN	14/9/12	111/17/61	390/25/74	566/35/100	441/35/94	793/31/100
K1XA	1/1/1	73/15/56	481/23/72	757/35/95	424/34/88	489/27/86
N4RJ	6/6/5	46/15/45	388/27/77	701/35/106	569/35/98	363/28/85
W4NL	13/11/12	70/16/57	283/24/71	785/35/106	502/31/91	357/27/79

USA TOP MULTI-OPERATOR MULTI-TRANSMITTER

W2PV	72/14/27	427/18/70	1101/30/103	1389/35/118	1228/35/103	1050/34/106
N2AA	49/12/15	461/21/70	803/26/85	1475/37/115	1314/35/113	1051/33/108
W3LPL	53/12/20	263/18/65	1012/29/106	1323/38/123	1179/35/111	875/33/110
K2UA	41/11/17	380/18/65	1161/29/91	1051/36/119	1129/35/109	1006/33/106
N9MM	83/16/25	223/21/56	870/29/96	1253/39/115	1157/35/103	1072/33/100
K1ZZ	50/13/18	353/20/67	909/28/89	1173/36/119	1049/34/97	1005/33/108

W8SR	79,170	267	29	76		
K4VX/0	21	397,764	1066	34	93	
W0KEA	306,125	864	34	91		
W0AMHJ	244,488	727	34	88		
N0BCN	116,202	377	30	77		
N9BD/0	33,900	161	22	53		
K0ZK	14	327,228	850	36	98	
AC0S	121,680	404	27	77		
W0SA	60,426	253	27	54		
W0FO	12,212	96	12	31		
K0FA	4,309	48	12	19		
K0RF	7	337,280	949	31	93	
AB01	335,775	1080	26	85		
		(Opr. K0XR)				
KJ0D	42,600	319	23	52		
W0JW	3.5	10,836	95	15	28	
W0RT	3,128	41	12	22		
W0BCNM	1.8	3,276	65	13	15	
K0ZK	1,520	39	10	9		

ALASKA

AL7H	A	2,078,352	2683	107	199	
KL7RA	2	2,015,026	3340	85	162	
KL7Y	108,102	363	57	72		
AL7X	28	75,460	747	21	23	

BAHAMAS

K0CW/C6A	7	85,572	609	16	51	
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BARBADOS

8P6J	A	3,868,716	4665	107	241	
		(Opr. N6TJ)				

BRITISH VIRGIN ISLANDS

VP2VHX	A	308,924	917	50	104	
		(Opr. N6OM)				

CANADA

VE1AH	A	774,080	922	86	242	
VE1ANU	462,735	603	85	230		
V01AW	172,142	423	53	113		
VE1CAN	129,628	556	26	66		
VE1TG	21	89,440	465	24	56	
VE1BRB	14	167,132	772	26	68	
VE1CEG	56,225	333	18	47		
V010U	7	14,112	124	13	35	
VE1BEC	1.8	472	65	2	2	
VE2AYU	A	935,668	1209	88	224	
VE2DPO	121,268	369	46	96		
VE2AH	14	138,753	644	22	59	
VE2WA	4,810	50	14	23		
V02CW	7	25,393	158	20	47	
VE3IY	A	2,607,795	2563	113	292	
VE3DZV	470,880	624	87	201		
VE3HD	411,808	537	89	183		
VE3GCO	393,476	596	78	178		
VE3UOT	275,317	410	70	182		
		(Opr. VE1BC2)				
VE3GCE	158,498	310	66	128		
VE3NBW	27,010	135	29	45		
VE3MKJ	17,160	155	20	32		
VE3BMV	21	653,856	1665	35	112	
VE3DUS	14	73,206	334	25	58	
VE3KRN	7	113,119	557	23	66	
VE3INQ	1.8	10,944	238	11	13	
VE4AIY	A	195,917	861	39	68	

VE4MF	69,550	186	45	85		
VE6DU	A	1,839,702	2302	119	217	
VE6COC	12,264	122	16	26		
VE7BTV	A	885,720	1687	82	138	
VE7QC	28	1,340	139	14	21	
VE7DLM	14	62,083	236	19	62	
VY1DD	21	960	28	9	11	

DOMINICA

J73D	1.8	184	10	3	5	
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DOMINICAN REPUBLIC

H1BLC	3.5	12,298	278	8	14	
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HAITI

HH2VP	A	1,666,224	2425	89	215	
		(Opr. N4XR)				

HONDURAS

HRIAT	14	38,125	294	21	40	
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JAMAICA

6Y5HN	A	349,168	967	46	111	
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MEXICO

XE2MX	A	715,009	1814	65	108	
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MONTERRAT

VP2MEV	A	1,138,671	2197	70	163	
		(Opr. AJ6V)				

PUERTO RICO

WP4BDS	A	607,506	1915	49	97	
K6BR/KP4	32,940	252	27	34		
NP4DA	21	57,816	321	21	45	

ST. LUCIA

J6LZA	A	2,855,358	3463	109	254	
		(Opr. W6W6F)				

ST. MAARTEN

P47A	A	1,748,700	2831	79	182	
		(Opr. KF1V)				
W4UJY/RJ7	543,864	900	77	171		

U.S. VIRGIN ISLANDS

WB3JRU	A	3,348	38	14	22	
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AFRICA

BURUNDI

9U5WR

JABDNV	30,120	182	22	38
JA21NS	28,187	142	25	46
JH7LVK	23,540	165	21	34
JA2LA	10,023	89	14	25
JA6E1F	8,262	95	13	21
JA7GAX	3,330	65	10	8
JA5DQH	4,293	62	11	16
JA7NI	4,158	67	12	15
JR1AHH	1,008	23	8	10
JA9EOH	584	22	5	4

KUWAIT

9K2DX	A	2,263,494	2453	92	235
			(Dpr. N6NI)		

MALDIV REPUBLIC

807BP	A	69,870	316	25	60
			(Dpr. C5ABH)		

MONGOLIA

JT6BUB	A	17,338	269	19	37
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OMAN

A4XJO	A	875,368	1335	73	174
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QATAR

A71AE	7	26,936	204	15	37
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SAUDI ARABIA

H21HZ	A	923,616	1107	77	211
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SRI LANKA

457MX	21	407,565	1279	35	100
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ASIATIC U.S.S.R.

ASIATIC RUSSIA

UY9AX	A	2,299,443	2022	103	290
UA9UAX		716,274	1293	69	165
UA9ABF		238,581	644	44	103
UA9BLF		95,232	317	53	71
UA9LZC		68,272	202	58	78
UA9UGA		65,058	517	17	25
UA9AFG		63,246	177	46	79
UA9ANN		42,075	102	59	94
UA9ACU		20,280	123	18	42
UA9OCU		11,750	52	23	24
UA9ZDE		10,908	144	21	22
UA9PP		9,568	80	19	27
UA9OHV		2,552	39	11	19
UW9AF	28	190,198	843	26	73
UA9QBE		141,480	524	29	79
UA9QBT		136,148	520	27	74
UA9XS		106,128	243	24	75
UA9AFY		25,668	434	11	14
UA9QBE		25,200	150	13	28
UA9CCR		20,090	171	18	23
UA9SAU	21	316,825	1094	29	86
UA9CIG		245,000	904	30	70
UA9SGJ		32,232	193	25	43
UA9ADM	14	447,874	1412	34	88
UA9WDM		13,025	137	16	17
UA9SGL	7	29,680	317	17	36
UA9UJ		23,001	230	19	32
UA9TS	3.5	122,567	622	17	56
UA9AJO		58,023	371	16	47
UA9CBM		51,904	300	13	51
UA9O0		27,387	185	11	40
UW9LI		14,070	190	15	27
UA9SAX	1.8	17,480	179	9	29

AZERBAIJAN

UD6DKW	A	151,632	473	34	83
UD6DLL	28	44,622	256	23	51
UD6CN	7	14,308	102	15	34
UD6DMV	3.5	45,720	391	9	36

GEORGIA

UF6CR	A	4,101,936	3634	182	286
UF6FFX	28	74,053	396	20	51
UF6FER		38,610	278	19	35
UF6FBX	21	3,780	105	13	23
UF6FFF	14	233,280	864	29	69
UF6FFJ		80,818	450	17	30
UF6QAN		33,088	246	13	34
UF6FDR	7	181,931	609	15	46

KAZAKH

UL7CCI	A	163,310	412	39	92
UL7CFB	28	160,860	724	22	62
UL7CGB	14	78,868	376	21	55
UL7GDB		42,581	305	17	32
UL7GAL	7	105,436	471	24	62
UL7JAW		101,166	540	19	59
UL7TBM		83,266	425	20	59
UL7TEH	3.5	63,278	461	17	41
UL7PBY		33,432	246	12	44
UL7GAD	1.8	6,214	87	9	17

KIRGHIZ

UW8MCC	28	61,530	371	21	47
UW8MBA	7	44,370	310	13	45
UW8PAC	3.5	25,360	249	9	31
UW8MAZ	1.8	3,894	72	6	16

TURKOMAN

UH8DC	A	1,651,674	2129	78	204
UH8HBR		47,616	282	19	45
UH8EAA	7	231,595	977	25	66

UZBEK

UI8BI	A	1,225,430	1546	89	221
UI8ADR	28	90,744	474	21	55

EUROPE

AALAND ISLANDS

OH0XX	A	2,490,540	2547	115	297
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AUSTRIA

OE6KZ	A	381,220	728	63	182
OE3RE		321,353	790	57	154
OE1JJB		8,760	93	22	38
OE3GSA	28	298,507	995	32	89
OE1WO	21	615	18	6	9

AZORES ISLANDS

CT2CY	14	168,345	840	25	62
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BELGIUM

ON4FD	A	1,553,140	2293	86	230
ON4XG		439,064	891	59	139
ON5JM	7	202,730	1110	22	73
ON5WL	3.5	27,636	475	9	38

BULGARIA

LZ2BR	A	159,796	613	50	132
LZ1NJ		109,005	376	45	84
LZ1GZ		41,310	277	26	59
LZ1RN		29,862	355	12	30
LZ1YE	28	181,940	717	32	78
LZ1TW	14	70,012	355	30	82
LZ1LW		65,807	461	22	57
LZ1GJ		4,118	59	11	18
LZ1DX	7	106,776	671	20	56
LZ1WJ		37,572	404	15	47
LZ1DQ		19,350	246	11	39
LZ1PP	3.5	101,964	870	21	87
LZ1ZF	1.8	10,962	234	9	33
LZ2CW		3,078	110	5	22

CORSICA

FC9FOO	A	1,094,940	1693	81	235
			(Dpr. N6RA)		

CZECHOSLOVAKIA

OK2BLG	A	1,493,736	1530	115	321
OK3DM		1,231,460	1667	91	244
OK2BHV		1,045,044	1389	99	278
OK1FCW		903,420	1474	74	178
OK1AYD		797,000	1512	86	239
OK1AD		636,744	1040	79	179
OK2TBC		605,745	947	90	225
OK3YX		563,654	839	92	234
OK1FCA		389,301	855	65	186
OK2QX		343,808	534	84	232
OK3PO		335,175	804	55	150
OK2YN		278,600	603	57	142
OK1ZP		247,736	691	54	125
OK1KZ		215,055	612	50	127
OK1DKV		201,122	433	68	159
OK1AUF		196,206	567	48	111
OK3IF		179,136	448	54	138
OK3YCA		155,730	435	51	94
OK1AWC		143,075	551	34	79
OK3FON		141,888	330	58	134
OK3CEG		129,990	299	61	149
OK1MKU		124,998	361	44	122
OK3BA		112,144	384	46	117
OK3KYR		111,200	369	42	97

OK3CAQ		90,770	269	45	100
OK1AOR		74,930	241	50	77
OK1AYN		60,424	174	51	131
OK1DMM		49,692	211	39	84
OK1FAM		49,456	249	28	60
OK2PBG		48,392	214	28	64
OK1APJ		46,550	169	41	57
OK1OFA		43,056	222	49	43
OK3KAP		40,313	208	29	62
OK2BB		38,250	181	43	82
OK1MIN		31,595	126	37	53
OK1MWN		30,736	178	24	64
OK1DRY		28,800	166	33	95
OK1MZD		27,051	175	31	96
OK1OAU		22,050	131	29	34
OK1IAGV		21,120	166	22	62
OK1JJD		20,826	202	17	61
OK1DGN		16,947	131	19	44
OK2KHS		13,952	172	16	48
OK2SGW		12,546	115	16	25
OK3BRK		8,288	117	11	45
OK1DMS		7,239	103	16	54
OK1APS		6,156	66	18	39
OK2SWD		2,368	64	9	28
OK1AEH		648	23	8	16
OK1ORA		216	11	4	4
OK1DCU	28	320,679	1257	30	77
OK1ZL		229,416	739	33	88
OK2BJU		32,040	202	21	39
OK3IAG		26,568	147	32	49
OK3CFP		25,704	150	22	46

OK1AVI		19,551	142	20	37
OK1MSP		10,859	77	20	31
OK1JIM		5,617	51	18	23
OK1AYQ		2,567	55	9	12
OK3KSO		609	30	9	8
OK3ZWX		180	12	6	9

OK1TN	21	257,255	950	30	85
OK3CDP		171,348	556	34	97
OK1MG		160,121	586	30	83
OK3KAG		150,282	654	25	74
OK2SAT		100,260	504	25	65
OK2BUW		98,200	418	28	78
OK1AES		83,265	373	27	63
OK1JVQ		65,110	347	22	63
OK3KEX		48,174	319	22	52
OK1DZD		8,700	139	13	16
OK3KGQ		1,178	22	6	13
OK1ASQ		1,037	23	8	9

OK3CLA	14	80,256	602	20	56
OK1FV		76,540	371	29	60
OK2BUJ		69,222	341	24	59
OK2BGR		48,818	312	23	54
OK1JPH		32,770	268	16	42
OK1DDW		22,491	266	11	38
OK1ZY		8,880	91	15	33
OK3CDN		6,806	116	9	32
OK1JZZ		5,543	87	10	13
OK1FRJ		3,220	51	11	12
OK2BFN	7	167,295	891	21	74
OK3CAU		4,950	23	9	10
OK1XG		1,488	30	8	16
OK2SPS		462	16	6	8

OK3CEI	3.5	28,520	419	9	45
OK1DKR		22,740	300	9	51
OK1DEC		16,422			

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UP2AG	21	36,984	253	21	48
UP2AV	..	13,340	142	13	33
UP2BA0	14	326,920	1777	24	64
UP2BE1	..	161,280	712	30	75
UP2BB	..	43,080	403	15	45
UP2BJM	7	11,370	152	14	37
UP2BEZ	..	4,592	107	9	19
UP2CT	3.5	34,314	492	11	46
UP2BEW	..	20,538	413	8	34
UP2BIF	..	7,210	197	6	29
UP2BCX	..	1,197	55	4	17
UP2BAW	1.8	16,785	354	9	36
UP2BCG	..	5,735	180	6	25

MOLDAVIA

U050AL	A	210,673	362	54	137
U050DT	..	66,528	171	36	96
U050WC	28	30,736	216	20	48
U050BD	14	83,292	722	22	61
U050GR	3.5	4,134	68	7	32
U050DB	1.8	4,131	141	6	21
U05AP	..	325	22	4	9

UKRAINE

UB5LAW	A	1,978,291	2010	112	315
UB5EC	..	1,690,812	2104	105	297
UB5MBP	..	1,322,010	1656	100	270
UT5HP	..	813,054	1257	92	289
UB5MFT	..	493,450	967	74	219
UB5UKW	..	435,870	865	65	196
UB5ICS	..	430,660	721	81	224
UB5UKO	..	205,368	411	75	183
UB5MNR	..	181,390	622	49	145
UB5MEH	..	131,036	400	44	120
UY5TE	..	123,120	472	47	133
UB5MLP	..	96,117	308	45	116
UB5QCK	..	74,534	240	49	117
UB5VK	..	68,707	354	31	96
UB5TR	..	58,984	258	36	110
UB5MVCV	..	50,850	340	21	69
UB5RCA	..	29,068	160	30	56
UB5FDG	..	21,528	133	24	54
UB5UWM	..	11,448	76	25	29
UB5DAV	..	11,194	163	20	38
UB5MMF	..	7,486	63	6	9
UB5ZBM	28	52,954	272	27	56
UB5RCH	..	20,295	199	13	32
UB5UKJ	..	10,336	112	10	28
UB5SEK	..	3,570	68	8	22
UB5UAU	..	2,760	54	8	22
UB5UWZ	..	1,785	35	9	12
RB5EGT	..	572	33	4	9
RB5IOV	..	6	1	1	1
UB5HIA	21	208,488	865	30	89
UB5WCW	..	161,332	689	29	77
UB5GBN	..	58,794	356	23	59
UB5SG	..	22,880	200	17	38
UB5UCJ	14	216,783	881	34	77
UB5LCK	..	181,272	1069	25	58
UB5ZEL	..	176,952	910	27	74
UB5CE	..	175,489	711	32	81
UB5MBN	..	157,337	469	21	52
UB5BZ	..	52,920	430	18	42
UB5KAF	..	48,300	397	20	40
UB5IAN	..	44,992	413	18	46
UB5WCV	..	16,695	206	14	39
UB5CEM	..	7,550	145	11	27
UT5HZ	..	1,932	84	10	13
UB5EEP	..	1,904	34	9	19
UB5JMR	7	241,440	1192	31	89
UB5UCR	..	55,476	362	18	49
UB5GAY	..	36,102	305	15	51
UB5FJ	..	20,511	190	13	40
UB5WCJ	..	15,808	152	12	33
UB5KAK	..	6,688	69	11	30
UB5KAU	..	6,075	104	9	16
UB5OCR	..	1,008	24	8	16
UB5NCV	3.5	48,500	595	14	53
UB5NO	..	44,086	562	12	55
UB5HAF	..	23,608	382	11	41
UB5KBE	..	20,539	372	9	38
UB5UFJ	..	11,844	226	12	30
UB5UFO	..	8,619	105	7	32
UB5FDF	..	5,511	171	7	26
UB5VAW	..	5,130	99	7	31
UB5QEB	..	1,020	44	6	14
UB5ZAL	1.8	10,260	203	10	35
UB5WF	..	9,320	215	8	32
E25WAB	..	4,030	127	6	25
UB5MFY	..	3,025	100	6	19
UB5ECQ	..	1,168	61	5	14
UB5AAF	..	931	43	4	15

WALES

GW4BR5	A	887,285	1587	72	179
GW3KYA	21	84,656	532	21	53
GW3MPB	14	41,920	276	20	60
GW3NYY	1.8	21,320	341	11	41

YUGOSLAVIA

4N1U	A	2,458,920	2325	116	349
YU7AF	..	613,326	1294	69	169
YU1BM	..	420,716	800	72	197
YU7NGO	..	334,633	719	64	163
YU1N2W	..	131,217	367	52	139
YU7WW	..	89,324	282	52	111
YU2QU	..	1,920	138	35	81

YU1RA	..	224	8	8	8
YU1Y3L	28	484,120	1412	33	97
YU3EW	..	466,570	1336	35	95
YU2SD	..	308,792	927	33	88
YU1EFG	..	284,400	856	33	80
YU2CTU	..	243,432	842	29	79
YU3CAB	..	240,468	792	31	85
YU7PWN	..	98,622	433	27	59
YU7BPQ	..	57,154	262	27	55
YU3VZ	21	732,096	1957	37	107
YU7OCV	..	459,801	1301	36	105
YU1DX	..	325,376	1189	33	91
YU2OG	..	304,420	1028	32	92
YU7PEF	14	295,550	1196	32	83
YU1KQ	..	129,160	666	23	38
YU5FKO	..	16,920	229	14	33
YU4AW	7	287,538	1393	23	79
YU4EGZ	..	115,056	633	24	78
YU2ACF	..	98,490	758	16	54
YU7AZ	..	26,733	275	14	43
YU3IXY	..	20,935	395	13	40
YU7QDT	..	15,963	150	13	38
YU2RA	3.5	109,755	816	19	62
YU4VBR	..	74,008	618	22	66
Y29HDE	..	56,305	660	17	52
YU7SF	..	21,756	370	8	41
YU3USB	..	9,061	202	8	33
YU3TB6	1.8	9,890	196	9	37

OCEANIA

AUSTRALIA

VK2800	A	735,294	868	103	191
VK2AYD	..	629,251	905	91	150
VK2APK	..	542,059	880	83	128
VK2WG	..	182,826	498	55	71
VK6FS	..	129,362	308	48	94
VK5KL	..	814	13	11	11
VK4LX	28	407,868	1121	33	90
VK4XA	..	264,880	1014	27	61
VK6AJ	..	169,446	621	28	65
VK5NVV	..	14,174	126	15	23
VK2DID	21	13,050	100	19	26

FRENCH POLYNESIA

F08DF	A	143,200	609	38	42
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GUAM

KG6DX	14	525,420	1289	37	102
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HAWAII

KH6ND	A	1,801,331	2206	109	168
KH6HJ	..	4,875	43	20	19
KH6X	28	392,574	1452	34	57
KH6JWK	21	46,696	304	21	31
KH6CC	1.8	13,481	266	9	8

INDONESIA

Y8AEG	A	370,176	666	76	116
Y8BVM	21	95,745	495	27	38

MARIANA ISLANDS

N68T/AH	A	4,241,746	4083	121	228
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MARSHALL ISLANDS

KX6PI	7	167,144	839	27	41
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NEW HEBRIDES

YJ8RW	28	612,255	2136	31	66
			(Opr. ZL1AM0)		

NEW ZEALAND

ZL1AIZ	7	19,133	125	20	33
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OGASAWARA

JD1ABX	21	4,301	71	12	11
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PAPUA-NEW GUINEA

P29NPL	28	6,680	114	11	9
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PHILIPPINES

KP4KK/DU2	3.5	55,328	339	20	36
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SOUTH KIRIBATI

T44AA	A	6,228	115	10	8
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SOUTH AMERICA

ANTARTICA

KC4USV	21	290,829	1259	28	49
			(Opr. N6WT)		
VP9ANT	1.8	594	18	4	7

ARGENTINA

LU1EWL	A	411,768	839	58	110
LU800	21	1,359,711	2993	37	116

BRAZIL

PY2DLK	A	649,440	1325	56	108
PY7ZZ	..	384,150	669	72	123
PY2EXD	..	362,310	631	65	130
PY1BUY	..	121,720	480	32	53
PY2CAR	..	17			

