

Results of the 1988 CQ World-Wide DX CW Contest

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

It is well past midnight now, and Arnold has lost all sense of his original plan. The fingers are working feverishly to a frenzy of high-speed CW. QSOs, more QSOs per minute than Arnold thought were possible, are ringing in his ears. Indeed, Arnold plugs on with his tenth contact in just 5 minutes. What phenomenal conditions! Yes, he just can't afford to miss any of the *CQ WW* this year. Arnold has made his decision—it will be all 48 hours or bust.

He had told himself before the contest that this is just a hobby, and not to get lured into sitting at the radio all weekend. He could control himself, he was sure. Just listen for a while carefully, and then make a few select contacts; that was his plan. He would be in there like a frog on a bug—snag the good juicy stuff and then be out of it. Arnold was going to use the surgical approach. But in the first minutes of the contest he wavered. There was a 28 MHz opening the likes of which Arnold had never heard before; 3W8CW, BY4SZ, YB0ARA, HS0A, VS6UP, etc., and all of them were as loud as a local! And then there was the switch to 15 meters. Wow, what a crop of Pacific DX in amongst the Africans and South Americans. He couldn't just quit like that after a few minutes on 10. He had to at least try his luck on 15. Of course, it was the same way on 20, 40, and 80 later. And so, Arnold had faltered in his resolve. He had tasted a "hot fudge sundae." He had fallen prey once again to the mighty *CQ WW DX Contest*, the "Olympics" of all operating events.

Arnold continued on in his new found bliss with fantastic fingers flying on the key and headphones fused to his ears. As Arnold surrendered completely to this temptation, he shed the frustrations and pressures of his normal world and became consumed in an escape from reality. For in that 48 hours of contesting—no matter how exhausting the time spent, no matter how frustrating the pileups, no matter how belligerent it all seemed—Arnold truly forgot his troubles. What welcome therapy and terrific relief the *CQ WW Contest* is!

Actually, a huge contingent of Arnolds from all over the world rallied to the 1988 call for participation. Over 40,000 calls appeared in more than one log in our computerized data base, more than ten to one in ratio to the number of logs received. These congregated to do battle in a variety of categories. Yet everyone who entered was a sure winner due to the absolutely fabulous propagation conditions on all bands. Some of you winners do deserve special recognition, as 31 world-wide and 6 USA all-time records were set. Here are the details.

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This year's top worldwide single operator was FY5YE, operated by Ville, OH2MM (bottom), shown here with station owner Mario (top).

The All-Band Results

In an encore performance, FY5YE, operated by Ville Hiilesmaa, OH2MM, swept away his own 1987 World and South American records (8.2 M) with a phenomenal 9.6 M points. Ville was followed by Glenn Rattmann, K6NA, operating at HC5M. Glenn's 8.8 M was well above the old world record, and despite a 140 contact advantage, Ville carried the day with his fine multiplier total. Jim Neiger, N6TJ, returned again for guest operation at D44BC, and posted his best effort ever at 7.4 M for a third-place finish, followed closely at 7.3 M by John Laney, K4BAI, who did 8P9HT—good enough for a new North American All-Band record, too. Meanwhile, JE1JKL returned to KC6CS this year to earn a fine 4.9 M points and set a new Oceania Continental record, besting the seven-year-old mark of N6BT/AH0. Top honors in Europe went to Phil Goetz, N6ZZ, at CT2NH. Phil's 4.68 M eradicated I4IND's one-year-old European record, adding a second Continental All Band, all-time record to the 5B4TI Asian mark Phil set last year. Phil was followed by TF3WW, manned by OH4NRC. Iceland is such a tough place to compete from, too.

In the USA there was a complete sweep of the top six by the northeast, with Greg, W1KM, amassing an impressive 4.47 M points. Randy, K5ZD, was second from K3TUP. Randy's multiplier of 609 was 32 more than Greg's, but that wasn't enough to compensate for Greg's extra 200 contacts. The band-by-band breakdown tells us that the low bands were the difference in the QSO count.

Frank Bogataj, YU3BC, set a new QRP World record with a great 1.24 M. He was followed by some strong USA finishes by WA2HZR (890 K) and NX7K (865 K). Congratulations on all those tough QRP QSOs!

In the quest for the combined SSB/CW All-Band Single Operator trophy, it was a three-way race among Martti Laine, Jim Neiger, and Ville Hiilesmaa, but Martti Laine, troubled in the CW contest by a transceiver failure early on Sunday morning, pulled it out. Congratulations on two fantastic efforts from the Madeiras Islands, Martti.

Single Band Categories

An incredible 21 records fell this year in the single band categories, with new World records being set on all of the bands except 20 meters. In fact, balance was a key to this year's propagation, with all six bands providing great propagation over most of the world.

Bahri, TA2BK, led the low-band forces with 163 K on 160 meters, followed by HB9AMO (topping his own European record) with 111 K. The USA winner was K5UR once more, who squeeked out a tough 13 K, down from his earlier scores because of relatively poor stateside 160 meter conditions. KX6DC, operated by NZ8B, gave Oceania its new Continental record of 42 K, topping perennial 160 meter enthusiast KH6CC.

The standard for 3.5 MHz was set by Jeff Briggs, K1ZM, who hammered out 809 K from NP4A to capture a new World and North American record. He was followed by EA8XS at 546 K, good enough for a new African record. W1FV prevailed Stateside, with a fabulous 225 K, while Akim, YU1YV, using the call 4N1A, won the top European slot with 247 K. What a signal Akim has on 80 meters in the States!

Seven MHz top honors and World and South American records go to Jose, YV5ANT, for his YX5A effort, the first ever station to break the 1



Phil Goetz, N6ZZ, shown here, is the holder of two all-band continental records—Europe, for this year's CT2NH effort, and Asia, for last year's 5B4TI effort.

M point barrier on 7 MHz CW. OH7JT/CT9 was very close behind, as his 904 K topped the old 1983 African record set by EA7TL/9 by almost 3 to 1. Dov, 4Z4DX, has a new Asian record with a fine 859 K. Meanwhile, I3JSS led the Europeans with 582 K, followed closely by YT0A and LZ1V at 553 K and 509 K, respectively. Bill, K2EK, wiped out K1OX's old Stateside mark with a great 520 K effort, followed by N2DT and WB8JBM with strong Stateside single band scores.

Twenty meter scores were noticeably down this year on the international front, possibly an indication of the indecision all of us competitors faced with virtually every HF band open at

sunrise and sunset. Nevertheless, Chris Burger, ZS6BCR, found 832 K enough to win it world-wide. Chris was followed by NY2M/KH2 at 765 K, and Al Slater, G3FXB, at 709 K. The USA winners were Conrad, N5CR, with 474 K and Bob, K2HFX, with 411 K.

This year marked the return of long, lucrative 10 and 15 meter openings to just about everywhere. On 15 Jorge, CX8BBH, piled up a remarkable 1.496 M for new World and South American records, pressed by fellow South Americans ZY5ZBA and 9Y4VU. LZ1KDP, operated by Todar, LZ2AX, captured the European honors this year with 752 K, followed by three Yugoslavians—YT6AA, YT3AA, and

4N2E, in that order. K3RV/4 (682 K), and K4XS (615 K), operated by WC4E, finished in a tight one/two fashion in the USA. By the way, Aki, JA5DQH, captured a new Asian 21 MHz record with a 624 K score.

The 28 MHz competition was hot and heavy, with many folks taking advantage of the good conditions. YV7QP, using 4M7A, did it again this year for the second year in a row, with a fine 1.145 M and a new World and South American record. ZY5EG was second at 1.04 M, in a close race with new Oceania record-holder KD7P/KH2 (1.037 M). VS6UP was third and established a new Asian record with 712 K. The USA leader was ARRL's K1ZZ with 538 K, a

CW TROPHY WINNERS AND DONORS

SINGLE OPERATOR, ALL BAND

World

HC5M (Opr. Glenn Rattmann, K6NA)
Donor: W2AB Memorial (Albert Kahn, K4FW)

World QRPP

Frank Bogataj, YU3BC
Donor: Gene Walsh, N2AA

U.S.A.

Gregory M. Cronin, W1KM
Donor: Frankford Radio Club

Canada

John Sluymer, VE6OU/3
Donor: Canadian DX Association

Caribbean/Central America

8P9HT (Opr. John T. Laney, III, K4BAI)
Donor: Peter Monroe, WB1DQC

Europe

CT2NH (Opr. Philip Goetz, N6ZZ)
Donor: Edward Bissell, W3AU

Africa

D44BC (Opr. James Neiger, N6TJ)
Donor: Gordon Marshall, W6RR

Asia

Tatsuya Sasaki, JH7WKQ
Donor: Japan CQ Magazine

Japan

Akira Asai, JA8RWU
Donor: Japan Crazy Contesters Club

Oceania

Joel Chalmers, KG6DX
Donor: Maui Amateur Radio Club

South America

FY5YE (Opr. Ville Hilesmaa, OH2MM)
Donor: YV5AAZ Memorial (Venezuela DX Club)

SINGLE OPERATOR, SINGLE BAND

World—28 MHz

ZY5EG (Opr. Peter Sprengel, PY5CC)
Donor: Joel Chalmers, KG6DX

World—21 MHz

CW8B (Opr. Jorge Camboni, CX8BBH)
Donor: N5JJ Memorial
(Don Busick, K5AAD)

World—14 MHz

Chris R. Burger, ZS6BCR
Donor: W2JT Memorial
(New Jersey DX Association)

World—7 MHz

YX5A (Opr. Jose Castejon Lara, YV5ANT)
Donor: Alex M. Kasevich, VP2MM

World—3.5 MHz

NP4A (Opr. Jeff Briggs, K1ZM)
Donor: Fred Capossela, KGSSS

U.S.A.—14 MHz

Conrad Romberg, N5CR
Donor: Northern Illinois DX Association

U.S.A.—7 MHz

Bill Gioia, K2EK
Donor: Jan Perkins, N6AW

Canada (14 MHz)

Dave Goodwin, VE2ZP
Donor: Canadian Amateur Radio Federation

Europe

LZ1KDP (Opr. Todar Ivanov, LZ2AX)
Donor: Southern New England DX Club

Japan—21 MHz

Akito Nagi, JA5DQH
Donor: DX Family Foundation

MULTI-OPERATOR, SINGLE TRANSMITTER

World

VP2MW (Opr. AA5DX, KM5R, WQ5W)
Donor: Anthony Susen, W3AOH

USA

K1AR (Opr. K1AR, K1EA, K1GQ, K1VR, KC1F)
Donor: Doug Zwiebel, KR2Q

Canada

VE7ZZZ (Opr. VE7ARS, VE7AV, VE7DP,
VE7EME, VE7SK)
Donor: Eastern Canadian DX Association

Europe

HG5A (Opr. HA5AWH, HA5BNL, HA5FM,
HA5GF, HA5IW, HA5LN, HA5MK, HA5ML,
HA7RY, HA5WE)
Donor: K3AO Memorial (Friends of K3AO)

MULTI-OPERATOR MULTI-TRANSMITTER

World

PJ1B (Opr. K2SB, K2SS, K2TW, K3EST, K3VW,
KT3Y, N2AA, N3ED, N3RD, N4RV, PJ9EE,
W2GD, W3UM, WA3LRO)
Donor: Hazard Reeves, K2GL Memorial

USA

W3LPL (Opr. W3LPL, AI3M, K3RA, KA1GD,
KF3P, N8II, ND3A, NW5E, W3EKT, WA8MAZ,
WB3FSB, WB3JRU, WD4AXM)
Donor: Jim Rafferty, N6RJ

Europe

OL8A (Opr. OK2FD, OK3CBU, OK3CDV,
OK3CGP, OK3CMV, OK3CQR, OK3CSQ,
OK3CUM, OK3CZM, OK3EA, OK3EY, OK3GB,
OK3GI, OK3JW, OK3LU, OK3LZ, OK3NA,
OK3NY, OK3PA, OK3RM, OK3TAP, OK3TPV,
OK3YEC, OK3YX, OK3ZAF)
Donor: Finnish Amateur Radio League

CONTEST EXPEDITIONS

World—Single Operator

EL7U (Opr. Jorma Saloranta, OH2KI)
Donor: Yankee Clipper Contest Club

World—Multi-Operator

P48V (Opr. AI6V, AJ6V, K7RIE, K7SS, K7WA,
K7XX, KE7V, KQ2M, N6IG, N7NG, NB6G,
NV6Z, W4ETO, W7WJ, WA6AUE)
Donor: Bill Schneider, K2TT

SPECIAL SINGLE OPERATOR AWARDS

World—Single Band, Combined SSB/CW

Martti Laine, CT9BZ
Donor: Yuri Blanarovich, VE3BMV/W2

World—All Band, Most QSOs, CW

HC5M (Opr. Glenn Rattmann, K6NA)
Donor: KV4AA Memorial
(The 14270 kHz Group)

CLUB

World—SSB/CW

Frankford Radio Club
Donor: CQ Magazine

Non-USA—SSB/CW

Rhein-Ruhr DX Club
Donor: N6AUV Memorial
(Northern California Contest Club)

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
FV5YE	149/12/37	302/17/60	554/21/68	1403/30/88	1067/31/98	1993/31/91
HCSM	37/10/13	221/18/38	1089/29/71	1297/34/84	1292/33/85	1747/25/85
D44BC	163/12/31	164/16/42	477/26/69	1072/24/67	1269/30/88	1722/28/77
8P9HT	158/9/16	604/22/61	747/22/64	1203/27/70	1583/31/77	1295/28/68
EL7U	76/11/35	127/19/46	512/27/67	1248/33/83	704/31/83	1422/30/85
P40GO	44/13/20	280/16/45	527/20/54	814/33/69	1252/28/74	1698/29/78
SU1ER	7/4/6	395/11/40	910/19/56	617/32/80	1252/31/78	1338/27/72
PZ/N3JT	5/2/5	232/17/42	334/15/36	1107/32/74	1606/27/74	1549/27/70
5H1HK	—/—/—	102/12/24	559/24/55	1269/33/83	1036/34/73	1350/27/72
CT3BZ	207/12/40	416/14/52	904/21/60	898/29/65	585/24/62	961/23/62

WORLD TOP MULTI-OPERATOR SINGLE-TRANSMITTER

Station	160	80	40	20	15	10
VP2MW	99/9/20	232/18/53	1148/25/73	1533/36/107	1650/34/93	1306/29/80
PJ2X	40/9/14	682/20/66	905/24/69	1081/36/98	1546/32/94	1004/31/81
RL1P	167/10/48	382/18/60	1132/36/104	931/39/111	619/39/103	1260/34/107
UL8LYA	75/14/42	492/22/71	1013/36/100	1196/40/100	648/36/102	654/37/100
HG5A	353/12/54	931/21/72	873/36/103	842/40/118	908/40/114	1123/38/108
LZ9A	277/17/64	516/21/69	775/37/106	986/40/124	909/40/117	893/38/111

WORLD TOP MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
PJ1B	717/17/65	1447/24/82	3119/37/133	3791/40/140	2997/39/134	2850/37/117
P40V	317/16/42	1555/27/84	2867/33/113	3443/39/140	3382/39/142	2569/38/130
KP2A	608/20/63	1549/22/86	2905/36/117	3822/39/134	3743/40/124	2771/34/107
EA9EA	672/16/69	1466/24/88	2354/34/90	3572/40/136	2447/39/109	2694/37/115
HD8EX	389/17/30	1281/26/67	2324/33/84	2617/39/113	3638/38/116	3169/32/95
OL8A	702/17/70	1715/28/69	2047/38/124	2394/40/133	1896/38/119	1919/39/123

new USA high, followed by W4XJ and W0ZV. The European competition was close, with all top slots separated by less than 100 K. It was RB5VK, EA7TH, and YT7WW, in that order.

Bob Winters, KD7P, is the 1988 winner of the combined SSB/CW Single Band Trophy for his operations at KH2. Congratulations, Bob.

Multi-Operator Winners

The Multi-Single category continued to enjoy healthy growth this year. A Caribbean team at VP2MW led the way with 9 M, followed very closely by the team at PJ2X, which set a new South American record. Meanwhile, the boys at RL1P and UL8LYA fought it out from the Kazakh for third and fourth place with scores of about 8 M. In Europe the HG5A crew took the prize with 7.775 M, a new record. They were pressed by LZ9A at 7.455 M and IO4IND at 6.7 M. John Dorr's K1AR team blew away the Stateside competition with 7.37 M. A group of five in the 5 M region trailed them, including N3RS, N4WW, K8AZ, and K5NA/2.

The world-class Multi-Multi category provided us with a fierce competition of goliaths, as PJ1B (38.4 M), P40V (35.4 M), KP2A (32.3 M), EA9EA (31.8 M), and HD8EX (27.5 M) all wrangled incredible efforts, in that order. PJ1B emerged as the new all-time World and South American record holder, while KP2A captured a new North American record. Likewise, EA9EA set a new African mark. We almost forgot to mention the new European record set by OL8A in Multi-Multi, with a great 18 M. They were hotly pursued by UP8A. Both of these teams managed a zone multiplier in excess of 200. Wow!

Club Competition

The club competition this year continued to



Jan, G3WVG, is shown operating GW4BLE, one of the top all-band European entries this year.

feature the battle between the Frankford Radio Club and the Yankee Clipper Contest Club. The FRC emerged as the winner with a fantastic 226 M compared to the YCCC's 204 M. The Potomac Valley Radio Club, the Southern California Contest Club, and the North Texas Club rounded out the top five domestic clubs. Two large West German clubs fought it out in the non-US club arena, with the Rhein-Ruhr DX Club taking the prize with 75 M compared to the Bavarian Contest Club's 65 M. The two large Lithuanian Clubs—Northern Lithuania DX Group and Kaunas Polytechnik Institute—and the Osaka University ARC rounded out the top five.

Only one entry was received in the Team Contesting area for the CW mode, and that was for "Team Japonica," consisting of 5H1HK (Opr. JE3MAS), KH0/JE1CKA, KC6CS (Opr. JE1JKL), JH7WKQ, and EL2FY (Opr.

USA TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
W1KM	39/12/30	402/22/60	617/31/79	590/37/98	579/28/79	410/26/75
K3TUP	38/13/30	143/22/60	410/28/74	528/37/107	547/34/85	759/33/86
K1CC	45/13/31	364/20/60	506/23/71	506/32/81	771/28/76	356/25/67
K1TO	48/13/37	220/17/54	292/28/73	590/40/102	736/33/96	359/26/70
N2LT	29/10/21	106/17/47	537/31/78	316/33/88	581/32/90	713/32/84
K3ZD	29/11/28	151/21/58	491/32/79	280/38/94	579/33/93	581/31/90
W9RE	25/10/21	96/19/50	343/28/67	405/37/93	623/34/89	659/31/77
N5AU	31/13/22	77/17/37	309/30/73	489/37/96	502/35/96	598/31/86
K300	46/11/28	253/20/60	294/24/57	365/32/81	589/30/87	514/28/83
N6BV/1	42/8/27	172/16/48	458/24/67	410/36/94	451/28/82	538/29/82

USA TOP MULTI-OPERATOR SINGLE-TRANSMITTER

Station	160	80	40	20	15	10
K1AR	44/14/42	407/26/76	931/35/107	741/40/135	630/35/111	571/35/105
N3RS	36/11/35	229/23/76	896/35/99	452/40/120	630/35/108	479/31/99
N4WW	35/12/33	287/18/61	413/29/77	918/39/117	699/36/99	460/34/95
K8AZ	34/15/31	165/20/60	421/34/87	650/40/128	719/34/110	502/34/105
K5NA/2	51/16/46	199/20/56	583/33/93	522/40/124	562/33/99	578/33/100
WM5G	25/12/18	106/24/51	451/34/103	443/40/127	489/39/128	571/33/111

USA TOP MULTI-OPERATOR MULTI-TRANSMITTER

Station	160	80	40	20	15	10
W3LPL	152/18/52	624/26/82	1205/35/107	1029/40/141	1212/37/119	1165/38/123
NR5M	69/20/31	291/27/59	794/36/100	1232/40/147	946/38/122	1021/35/117
K1ST	57/13/34	330/22/71	968/35/106	1085/40/136	831/35/102	519/34/98
K4JPD	58/16/35	322/26/68	683/32/98	804/40/132	783/36/105	1025/37/115
K4YX/0	55/16/30	189/23/62	660/36/100	1004/40/134	903/37/106	879/35/111
N1CQ	107/16/47	366/24/72	782/34/105	1082/39/124	867/34/94	512/29/90

JA1XAF). Congratulations on a fine 18 M total. How about some competition next year from the Finns and the Americans?

Some Special News

We did a lot of special checks on the top six in the Multi-Multi and Single Operator categories this year as part of our computerized log-checking process. The checks included determination of unique rates by band, and the analysis of the unique data, followed by cross-checks and other techniques. This special processing took many hours of our time, and was performed as fairly and equitably as we know how. It's particularly tough to do when some of the top entrants don't send us their log on a disk—even though they do send us a nice computerized printout of the log, thereby necessitating manual entry of the data. In some cases we had to enter 15,000 calls. It's interesting that some of the guys who have been talking the loudest about cooperation on log evaluations are the same guys who didn't send their log data on disks! However, the CQ organization is committed to the highest of standards, so we manually entered all the top logs if we had no other recourse. We wanted a uniform procedure applied just to make sure that nobody was hiding anything from us.

A careful comparison of the final results with the high-claimed scores will show that virtually all of the top logs were affected by the above process. Indeed, lots of potential errors were found, and many of these were confirmed with the crosschecks and other techniques, resulting in some significant score reductions. Despite all of this work, only one change in relative position was identified. For all those concerned, you can be assured that all of our findings will be held in the strictest confidence, as it should be.



The boys at LZ9A, also LZ2KTS, sported this fine set of antennas—6 elements each on 10, 15, and 20, and 4 elements on 40.

In order to minimize the problems in building our computerized data base for checking in future years, we have given more thought to the matter of disk submission than what we discussed last month. Although we can't process a rule change for 1989, we will process one for 1990. What we have decided on is a rule

change to the log submission requirement. The rule now states that an original or a photocopy of the original log is required, and that dupe (or crosscheck) sheets are required when more than 200 contacts are made on a band. Strictly speaking, computerized log listings do not comply with this rule anyway.

Therefore, a change is needed to allow for the submission of computer-generated logging data. The rule change will state that a computerized log listing and/or a computerized alphabetical sort of the log data will be accepted in lieu of a copy of the original or a dupe sheet provided the computerized listing is accompanied by a disk, and that ASCII format is required. Failure to submit the disk with a computerized log master will be grounds for disqualification. Of course, a copy of an original log will continue to be acceptable, provided it is accompanied by a manual crosscheck sheet as required.

Parting Comments

This year we expanded the contest committee significantly to account for increases in log submissions and the substantial computerized log-checking process that we initiated several years ago. Our hard-working crew deserves recognition from the participants for the tough job they do—burning lots of midnight oil long after most of you have forgotten about the contest except for the expectation of the results. That crew includes Pat, WA8YVR; Dave, K2SS; Doug, K1DG; John, K1AR; Bill, W2RQ; John, KE7V; Richard, K5NA/2; Ed, N3ED; Fred, AD6C; Jan, N6AW; Glenn, K6NA; Homer, K7RA; Jim, W7EJ; Gene, N2AA; Mike, W9RE; John, K2VV; and Doug, KR2Q.

The days are growing shorter here in the Northern Hemisphere. The bands are growing livelier and livelier. Rumors are rampant on plans for the big one—the 1989 CQ Worldwide DX Contest. As you read this magazine, the Phone event may even be upon us! See you all in the middle of it.

73, Larry, N6AR, and Bob, K3EST

USA QRM

Conditions not as good as on Phone . . . N2RM. We could have used more operators, but all had good fun . . . K4VX/0. Burned up the 40M beam; broke most everything else . . . W8BI. Lots of fun by all . . . K4JPD. Packet helped find multipliers and the computer duped well, at last . . . K6ZM. Very high noise from the power lines . . . WB8K. Working zone 34 on 40 M . . . WF4G. Worked VQ9QM on the second call . . . W4DEC. Wish I had more time for the contest . . . W4YN. Why not switch weekends each year . . . W4XJ. Where were all the VKs? . . . K4LTA. Wait till next year with a new beam and amp . . . KC4W. Operated with the beam stuck north . . . W4KM. No 2 M, no Packet, no Software—felt like John Henry . . . AA4S. I elected to operate the Senior Citizen's band—28 MHz; work all day, sleep all night . . . W4OO. Having a comfortable chair to sit in is contest happiness . . . KX4S.

Had a shot at WAZ but missed it . . . N4MO. Glad to see DX stations identifying more often . . . W3VT/4. First time in contest . . . K6ETM/4. First CQ WW with a decent antenna—great fun . . . N4ZR. FB propagation; too many dupes . . . W4WKQ. Extremely surprised to see LP open so well . . . K4PQL. Conditions were great—worked BY, YB, 3W8, and HSØ in 8 minutes . . . N4TO. Big thrill to work KH6AT on 160 . . . WA4CUG. Best CW contest conditions I've ever heard . . . N6AR. Almost 73 years old, but still enjoy it . . . W4GTS. This contest is really awesome—I love it . . . AD5Q. Many thanks to all the guys in Asia for the exciting multipliers . . . WM5K. Had 9 inches of rain during the first day . . . N5AU. First score over 1 meg, great contest . . . N5AW. Worked VQ9QM as my last contact in the test for number 231 . . . N6IBP. Working the 5H1 . . . W6MFC.

Worked Europe long path on 40 with a vertical . . . N6OM. Working a 9Q5 within the last half hour of the contest was my biggest thrill . . . KD6GC. Worked 3W8CW on a QRZ on 10 meters . . . W6MVW. Very happy to work SU1ER to complete my 15 M WAZ . . . W6JTI. The quality of operators seemed very good throughout . . . K6SIK. Sunday morning there was much long delayed echoing on Midwest signals . . . WA6TKT. Propagation was disappointing, especially following the Phone test . . .

WB6MBF. My last contest was as JY9RL—what a difference back as a W6 . . . W6RCL. Missed some good openings with limited time . . . AC6H. I didn't call CQ once . . . W6PM. Hospitalized Sunday but no contestee suites available at hospital . . . N6OU. Having a QTH on a 2000 foothill is worth 20 dB . . . W6PU. Great to work through the East Coast curtain . . . K6ZUR. First time to participate . . . W6IFC.

First real contest using great real time logging system (K1EA); weekends should be changed . . . W6YA. Excellent band conditions . . . NE6I. Contesting is no fun with the flu . . . K6CSL. Contest more enjoyable with computer logging (KT5X) . . . N1EE/6. Beat W6 old record . . . W6QHS. At 77 I'm getting too old for this . . . N6AN. All bands overcrowded, and more so this year . . . K6DR. Accomplished long-term goal—WAZ and DXCC in one weekend . . . N6GG. More zones active in CW than SSB—that's a switch . . . K1IU. Installed the tower, antenna, and rotor in the 9 hours prior to the contest . . . K1IR. On-line computing—the way to go . . . W3MA. The Northeast packet wins! Time to operate single op/single band or quit . . . N4WW. Worked SU1ER on 40 meters . . . W6BA. Next year bigger antennas up higher . . . N6IC. We smelled something burning for an hour; then the power supply died . . . W6REC.

Half way through the second day I discovered the traps had filled with water . . . WABLLY/6. Biggest thrill was not signing 3D2XX . . . W6SZN. Nothing closer than 20,000 miles was coming through on Sunday morning . . . KO7N. Had fun just playing around . . . WB9JKI. Lost many hours on Saturday due to multiple amplifier failures . . . KROU. Worked HSØA and 3W8CW in zone 26 but couldn't find zones 17 and 18! . . . K7QQ. Worked 4 BYs on 40 . . . W7AYY. Will return with real antennas next year . . . N0AX/7. WAZ in 48 hours and 116 DXCC countries . . . N7TT. The bloody woodpecker now pretty much wipes out 40 meters from midnight till an hour past sunrise . . . A17B. Should have done 20 meter single band—20 was great . . . WA7BPI. May the bird of paradise fly up the woodpecker's nose . . . K5MM/7. Just pileup fodder this weekend, but still had fun . . . K7LXC. JA's down and couldn't run Europe . . . K7GM.

How about a separate classification for low power? . . . N7HUS.

TOP SCORES

WORLD		USA		EUROPE	
Single Operator	All Band	Single Operator	All Band	Single Operator	All Band
FY5YE	9,574,096	W1KM	4,466,557	CT2NH	4,683,500
HC5M	8,849,300	K3TUP	4,311,720	TF3WW	3,606,304
D44BC	7,407,750	K1CC	3,915,620	F6BEE	3,312,240
8P9HT	7,323,030	K1TO	3,849,115	GW4BLE	2,788,668
EL7U	6,690,750	N2LT	3,757,462	UP3BP	2,697,081
P40GO	6,569,485	K3ZO	3,731,904	G3MXJ	2,513,302
SU1ER	6,134,568	W9RE	3,487,232	YU3BO	2,491,129
PZ/N3JT	6,013,985	N5AU	3,323,400	OZ1LO	2,412,775
5H1HK	5,627,686	K3OO	3,191,900	G4BUO	2,348,919
CT3BZ	5,495,616	N6BV/1	3,170,260	YT3L	2,205,198
28 MHz		28 MHz		28 MHz	
4M7A	1,145,375	K1ZZ	537,568	RB5VK	469,336
ZY5EG	1,041,054	W4XJ	340,445	EA7TH	455,259
KD7P/KH2	1,037,608	W0ZV	331,976	YT7WW	412,596
VS6UP	712,597	W6YA	293,591	YT3W	395,354
CE3DNP	671,574	W1WEF	277,815	YT2O	392,490
K1ZZ	537,568	W6QHS	268,125	G3LNS	375,777
21 MHz		21 MHz		21 MHz	
CW8B	1,496,556	K3RV/4	682,362	LZ1KDP	752,623
ZY5ZBA	1,045,304	K4XS	615,884	YT6AA	688,889
9Y4VU	1,001,607	W1RM	591,038	YT3AA	580,808
N7DF/NH2	983,268	KW8N	509,878	4N2E	501,552
HK1KXA	769,600	N2PP	470,304	OH6MCW	480,951
LZ1KDP	752,623	W1NG	449,536	EA7KW	477,195
14 MHz		14 MHz		14 MHz	
ZS6BCR	832,524	N5CR	474,084	G3FBX	708,724
NY6MKH2	765,872	K2HFX	411,300	OH7MA	534,691
G3FBX	708,724	N4MO	254,475	UR2RDO	510,416
EA8BPW	681,458	N6GG	243,036	YU7AV	496,987
PY5ZBA	573,144	W1RR	203,635	IT9GSF	484,846
OH7MA	534,691	WA1FCN	186,538	G3TXF	422,408
7 MHz		7 MHz		7 MHz	
YX5A	1,001,578	K2EK	520,086	I3JSS	582,250
OH7JT/CT9	904,038	N2DT	399,765	YT0A	553,833
P40R	874,240	WB8JBM	306,372	LZ1V	509,472
4Z4DX	859,392	KD2RD	282,535	RU1DZ	489,167
FM5BH	609,235	W6PU	190,060	YT7A	410,256
I3JSS	582,250	KB0G	176,624	HG3DXC	362,984
3.5 MHz		3.5 MHz		3.5 MHz	
NP4A	808,640	W1FV	225,150	4N1A	247,020
E4AXS	516,390	K1NA	140,192	YT3AW	121,595
4N1A	247,020	W0GD/8	90,748	YT3FO	118,940
W1FV	225,150	W4NL	45,982	DL3HAH	118,243
K1NA	140,192	W5WMU	39,250	UR2QD	117,728
YT3AW	121,595	W9WAQ	25,200	OH7UE	116,919
1.8 MHz		1.8 MHz		1.8 MHz	
TA2BK	163,605	K5UR	13,568	HB9AMO	111,245
HB9AMO	111,245	KG4W	12,213	SP3BQ	89,712
SP3BQ	89,712	K4TEA	10,266	IK2DVG	76,788
IK2DVG	76,788	KD9SV	6,800	CT1AOZ	66,439
CT1AOZ	66,439	NA2M	5,520	UR2RGN	59,520
UR2RGN	59,520	N6LL	5,430	OK1FCW	55,809
Multi-Operator Single Transmitter		Multi-Operator Single Transmitter		Multi-Operator Single Transmitter	
VP2MW	9,041,590	K1AR	7,370,285	HG5A	7,775,904
PJ2X	8,948,660	N3RS	5,648,296	LZ9A	7,455,056
RL1P	8,360,528	N4WW	5,277,350	IO4IND	6,719,762
UL8LYA	7,816,200	K8AZ	5,063,990	HG1S	6,678,636
HG5A	7,775,904	K5NA/2	5,013,162	OK5R	6,474,595
LZ9A	7,455,056	WM5G	4,341,104	UQ1GWW	6,434,300
Multi-Operator Multi-Transmitter		Multi-Operator Multi-Transmitter		Multi-Operator Multi-Transmitter	
PJ1B	38,415,760	W3LPL	12,804,154	OL8A	18,653,778
P40V	35,368,065	NR5M	9,796,680	LX8A	18,476,400
KP2A	32,325,150	K1ST	7,989,630	UP8A	13,750,580
EA9EA	31,764,460	K4JP	7,853,620	PA6DX	10,770,554
HD8EX	27,503,400	K4VX/0	7,785,450	Y34K	9,862,128
OL8A	18,653,778	N1CQ	7,623,036	YT2R	8,820,408

(Haven't you heard about our QRP category?—ed.). Had a great time until Murphy struck; where do you find 6146's on Sunday morning? ... K7RA. Called QRL and had 9Q5UN call me ... N7RO. Band conditions were very good except for VK/ZL ... K7UOT. Almost fell off my chair when FR4FA/J answered my CQ on 10 ... N8CXX. Big thrill having 9Q5UN and 9V1OK answer consecutive CQs near the end—both double multipliers ... K8CC. Good contest—only lost one amplifier and one keyer ... WD8LLD. 5U7/TU4BR called me in the contest on 80 ... W00CD/8. Next year send some of the redundant P4/PJ expeditions to someplace rare, like ZL ... K8MR. Nice to have decent conditions on 10 meters ... KF8K. Spent 2200–2350 just prior to the contest repairing the long wire ... N8AGU. Spent half the contest fixing my T4XB ... WB8YJF.

The kilowatts thwarted my attempt at JT1T for zone 23, but I bagged 23 actual zones ... W8YGR. VQ9QM answered my CQ on 15 meters ... WB8HDD/4. Worked HS0A for a new one 2 minutes before the end of the contest ... WA8YTM. Some stations are stingy with their calls ... W9GXR. S7 to 40 over QRN level from the power company was on for over 30 hours ... K9QVB. Not a whole lot of activity from South America or the Pacific Isles—could have been really great with more participation ... WA9EKA. Never thought I'd see the day when I'd work a 3W in a contest and not have it count for a new one ... W9SC. My favorite contest; one of these days I'm going to operate the whole thing ... W9SU. Missing most of Saturday and Sunday mornings doesn't help ... NE9U. Great to get back into contesting after several years of other priorities ... N4RR/9. Great run of JAs on both 10 and 15 meters ... KA9OKH.

Found A35KK calling CQ with few takers, with a massive US pileup to Africa just a few kHz up ... NJ9Z. Extremely bad QRN the first night and heavy rain static the second night ... W9WAQ. Band kind of flat—not many DX stations on 160 meters ... KD9SV. Worked an HD8 on 80 meters—only during the CQ WW! ... WA0OUI. Worked first VK on 80 meters ... W0RXL. Lots of fun, but where did the South Americans go? ... KJ0B. Have worked with receiving loops for 10 years now—finally getting them to work well ... W0UO. Finally worked VU on 40 meters—that's tough from North Dakota ... WB0O. A lot of fun even if I'm not a big gun ... K9AY/0. Turned on the radio and amp Friday night to warm up and the whole room started to shake; thought I had an equipment problem but it was only an earthquake ... KQ1V. Gotta learn how to set those alarm clocks ... KM3T(Opr. K1VR). I am a Novice class operator—thanks to all who put up with my shaky attempt at high speed CW ... KA1RPQ.

Could hear Europe strong on 80 meters at 20 Z, but couldn't work them before 24 Z ... K1NA. Great fun with G5RV antenna ... W1WAI. 9Q5NW did not believe I was only using 5 watts ... W4DEC. 80 meters was slow, but managed 29 countries and 12 zones with 2.9 watts ... AA2U. Real QRPer don't own beam antennas ... W1HUE. Bringing DXCC total to 104 using 5 watts and a random wire ... W5TB. Making it through another 48 hours without any sleep ... K2HFX. "QRL?" means in 30 microseconds I'm going to call CQ here ... K2EK. Higher QSO rate with 200 watts in the Novice band than with a gallon below ... N2KW. Great way to sharpen skills after years of CW inactivity ... KM2P. Looks like I'll have to start learning to like computers for next year's test ... KD2RD. Worked China, Viet Nam, and Taiwan in the last half hour ... K2WK. 39 zones and 110 countries in a weekend with a vertical—wow! ... N2UN.

I found out that it is possible to operate on CW while holding my 3-month-old son ... KR2J. Felt like a wire man in a great forest of aluminum ... N2NT. Had a 3 AM backyard fire dance after the 160 meter tower matcher exploded ... NM2Y/3. A 3W8 on 15 calling CQ with no takers—the world has ended ... N3CXV. Why couldn't my illness wait until the contest was over? ... K3UA. Wasted 30 minutes and couldn't crack TK5EL pileup—5 minutes later he answered my CQ ... K3SA. The contest is a lot more fun from W1 than W6 ... N6BV/1. Hard to decide what to do when so many bands are open at the same time ... K3ZO.

DX QRM

Very fine contest ... YO2AQB. Conditions were not as good as in Phone ... OH6YF. The ground plane is not good enough to keep the pile ups ... OH4NSG. NP4A was 20 over 9 at 10 AM on 3.5 MHz ... 4N1A. At last worked zones 40 and 31 on 7 MHz ... YT7A. My first WW—working with a computer is very exciting ... YO3FBE. Nice to be called by VK6HD, YB8AX/0, and PY1RO on 160 ... SP3BQ. Although I had many things to do at home, I couldn't be out of the major contest of the year ... SV1NA. It sure helps to have an XYL that helps with the post contest duping ... W9LT/10. Poor conditions on 10 and 15 prevented us from breaking the Canadian MS record ... VE7ZZZ. The pileups were incredible ... VP2MW. First effort in Multi-Single in a CW contest—first time Murphy stayed away in a contest ... ATON. Heavy snow noise, so it was

no good on the low bands . . . JA8YBY. Hope to see you in the 1989 CQ WW from XW . . . 3W8CW.

After last year and this year we know where Murphy spends his vacations . . . PJ2X. Worked ten American districts . . . DU1KWT. Sorry so little time, but my horse died and I spent 12 hours digging the grave . . . KH6CC. Get those CBers off of 10 meters . . . 9Q5DX. Had good luck with some European DX on 160 . . . ZL1AIZ. Illegal use of 28 MHz, especially in VS6 and YB, will ruin our internationally exclusive allocations . . . VS6UP (Op. KB7G). Poor operating techniques by European operators caused me to QRT after 2 hours . . . TN4NW (Op. N4NW). Improving since last year, but not enough . . . EL7U. Set up the antenna a few minutes before the contest in a driving rain . . . TA2BK. Nothing special this trip; same room, same antenna, mounted to same tree after five years . . . ZK1TB (Op. W7TB). So many AC power failures I tried to use the car battery, but no way . . . EL2FY (Op. JA1XAF).

Never heard zones 1, 2, and 40 . . . ZS5S. Don't know why old men indulge in a racket like this . . . ZL1AYO. I returned to Belau as I announced in the '87 QRM . . . KC6CS (Op. JE1JKL). Any recognition for the most dopes on a single band? . . . VK5AGX. Still recovering from the

3D2XX operation . . . AX8XX. Ten meter conditions were too good! . . . KD7P/NH2. Thanks to all the Americans who did well to copy my dipole on 80 M . . . V85DA. Wonder if anyone else worked 3W8CW on five bands? . . . HL9JZ. Heard lots of Europe, but almost no answers . . . A35KK (Op. SM7PKK). 1958 was my first year in India; trying again in 1988 at 73 years of age . . . VU2AJ. Heard both VO2WL and TI2CF but couldn't work them for all zones . . . NY6M/KH2. Woodpecker was a real nuisance . . . YB3ASQ. QSO rate was so low my paddle bearing rusted solid . . . ZL1AIH. See you next year from Khartoum as 6T2EE . . . SU1EE (Op. WA9INK).

This was my 261st contest . . . VK2APK. Six percent dopes and I gave my call with every QSO! . . . N7DF/NH2. OM Murphy didn't show up . . . AT0Z (Op. VU2ZAP). I resisted the telephone—consequently, I didn't get a C3 multiplier on any band! . . . C31IJ. Found out after the contest that the antenna feed to the Yagi was loose . . . CT1DKG. I only made about 520 QSOs in the contest because the power supply for my power amp blew out on Sunday morning . . . DF1LX. I was surprised working DXCC on 10 M in 24 hours . . . DK5WL. This contest is the best in the World! . . . DL1TH. Although I'm no big gun, I had lots of fun . . . DL2OBF.

USA CLUB SCORES

Frankford Radio Club	225,948,064
Yankee Clipper Contest Club	204,223,888
Potomac Valley Radio Club	99,563,971
Southern California Contest Club	56,917,883
North Texas Contest Club	52,362,427
Dixie DXers	52,166,149
Mad River Radio Club	43,811,328
Southeastern DX Club	40,781,911
Northern California Contest Club	27,874,632
Central Florida DX Association	26,186,115
San Diego DX Club	23,154,650
Texas DX Society	19,308,360
Carolina DX Association	18,287,768
Western Washington DX Club	17,267,478
Society of Midwestern Contesters	15,589,025
Willamette Valley DX Club	14,827,585
Overlook Mountain ARC	14,254,910
Northern California DX Club	11,864,950
Hoosier Contesters	9,265,628
Mississippi Valley DX & Contest Club	8,847,000
Minnesota Wireless Association	8,596,218
Southern California DX Club	8,444,451
Kansas City DX Club	8,287,322
South Florida DX Association	8,110,171
Rochester DX Association	7,836,616
South Jersey Radio Association	7,224,357
Eastern Iowa DX Association	7,119,918
Legion of Indy DXers	6,789,680
Southwest Ohio DX Association	6,491,888
Grand Mesa Contesters	6,350,408
Boiled Owls of New York	4,751,493
Rubber Circle Contest Club	4,079,699
Western Pennsylvania DX Club	3,352,872
Meriden ARC	2,931,183
Redwood Empire DX Association	2,714,380
New Mexico Big River Contesters	2,708,212
Central Arizona DX Association	2,357,036
Mile High DX Association	2,325,068
Utah Contest Club	2,307,813
Colorado Contest Conspiracy	1,953,789
Long Island DX Association	1,877,180
Nashua Area ARC	1,758,883
Greater Milwaukee DX Association	1,603,272
Albany Radio Club	1,581,162
Fox Cities ARC	1,481,642
Woodbridge Wireless Inc	1,444,564
Western New York DX Association	1,167,354
Alamo DX Amigos	1,088,892
Metrocrest ARS	1,077,131
Murphy's Marauders	1,000,634
Metro DX Club	926,233
Ohio Valley ARA	855,462
North Florida DX Association	851,700

Florida West Coast DX Ring	713,790
Red "A" Rangers	684,762
Northern Illinois DX Association	599,169
Northern Ohio DX Association	582,756
Arrowhead Radio Amateur Club	541,508
Four Lakes ARC	466,412
Inland Empire DX Association	372,217
Calumet Amateur Radio Enthusiasts	367,973
Fox River Radio League	361,380
Utica ARC	348,206
DX Association of Connecticut	294,359
Dade Radio Club	152,964
Stark DX Association	114,912
Hamfesters RC	113,208
Fresno ARC	92,118
Tyler Amateur Radio Club	66,130
Congo Valley ARC	4,420

DX CLUB SCORES

Rhein-Ruhr DX Association	75,193,017
Bavarian Contest Club	65,340,168
Northern Lithuania DX Group	54,812,356
Kaunas Polytechnic Institute	26,517,551
Osaka University ARC	20,072,724
Araucaria DX Group	19,436,442
Viimsi Radio Club	10,164,535
Kiev ICAE Radio Club	7,968,836
CDXC Contest Team	7,847,677
OECU ARC	7,324,404
Maui Amateur Radio Club	6,671,970
Hokaido University ARC	6,505,458
SP DX Club	6,461,600
Hill Top Ham Club	5,585,248
Leningrad City Club	4,711,068
South German DX Group	4,356,178
U DX Club	3,694,464
YU DX Club	3,534,330
Fraser Valley DX Club	3,370,320
Lithuanian Contest Group	1,886,967
Tallinn Radio Club	1,804,543
Uruguay DX Club	1,650,381
Shakhty Radio Club	1,509,178
Winnipeg DX Club	1,274,918
Groupo Argentina de CW	1,243,562
Shizuoka DX Group	1,154,954
Kiev Radio Club	1,020,558
PZK	981,471
Ehime Radio Club	875,704
The Bullmertz	710,656
Riga Radio Club	444,069
Voroshilovgrad Radio Club	183,998
Les Nouvelles DX Group	89,543



Although amassing an impressive 3.16 M, K1RU placed just fifth in the tough W1 call area, not even enough for the USA top 10. Just what do you have to do?

3W8!! Unfortunately I had no chance on 80 M ... DL2HBX. First time I ever worked US stations on 80; great conditions on 10 ... DL3YBM. No problems with the station, no problems with the contest, and no problems with the wife ... DL9OE. Diaz metros—Lascondiciones fueron absolutamente fantásticas! ... EA3ALV.

The maximum score for me in this contest in many years, even with a quarter-wave antenna indoors ... EA4BV. I am now 72 years old and don't have the stamina for very long sessions ... EI4N. Wonderful contest, wonderful conditions ... F1JCB. More than 105 countries on 10 M in 12 hours—that's the WW test, thanks ... F6AUS. A good Saturday, a poor Sunday, but the best score ever for me ... F6IRF. Very enjoyable weekend ... G3ESF. Back to the drawing board on antennas ... G3GGS. Now have a beam, though only a duobander, but what a difference ... G3NKS. Great to get all 40 zones on 14 MHz ... G3TXF. Started dozing on Sunday morning when I should have been looking for multipliers ... G4BUO. It really made my day being called by 3W8CW ... G4CNY. Look, Mom, no pencil; real time computer logging was fun! ... NL7DU.

Had to knock ice off the antenna to bring the SWR down ... KL7UR. Eighteen consecutive years in the best CW contest ... HR1AT (*Thank you, Antonio.—ed.*) One big 48 hour continuous thrill ... VP5U (*Op. K3IPK*). Used a string tied to my amplifier's sticky antenna relay to "fix" it during stubborn operation ... VO1NA. Thanks for the good courtesy when I asked for directional calls ... VE2LJ. My last contact at 2359Z was 4S7EA for a zone sweep ... VE2ZP. Low bands were the worst in recent memory ... VE3IY. A few watts from the loaded, short dipole got me lots of DX from the apartment ... VE3SMA. Fun to warm up the old DX-100 and HQ-170 on 160 M ... VE3HCT. I'll be back ... VE6SWL. Operating portable from the Honeymoon Hotel for our 25th anniversary—not enough time for the radio ... W7DRA/VE7. We were amazed at the ultra-high CW speed of 3W8CW—we couldn't copy any letters for several minutes ... JH1YHS.

Good conditions on all bands ... PA6DX. We tried a new antenna for this contest; will try much better antennas in 1989 ... JA0ZRY. Fine contest; big score; hope good enough for #1 in Japan ... JA6YCU. We were located on the east side of the rock at sea level, so we could only work North America via long path ... ZB2/GW3NYY. We enjoyed it very much ... JR1ZTT. It's hard to reclaim the wasted effort of over 1000 duplicate QSOs ... HD8EX. (*What's your call?—ed.*) Biggest thrill was learning we were close in score to W3LPL ... NL7G. Nice to work 5BDXCC in one weekend ... LX8A. We almost gave up on the Thursday before when the wind tore down the 20 M and 40 M beams and 7 operators could not reach Ceuta due to the terrific storm ... EA9EA. Good activity on 28 MHz ... RZ3DZ. Conditions were very, very bad ... UA1PAO. Bad propagation, I believe ... RV6AF.

See you next year ... RC2AR. Enjoyed operating from my own shack—lots of fans, DXers, QRM ... RW3AH. Many USA stations made fine DXpeditions, but getting QSLs from them is a big problem ... UP2BZ. Snow and strong QRN on 80 ... RR2RW. Ten was really open! Seven new countries; hope to meet you in the next contest ... UR2RHF. First test to run at 79 QSOs in one hour ... G4UOL. It was great; 28 MHz was open for the first time since I became a ham 4 years ago ... G4ZME. Had 46 years QRT from 1937 to 1983, so I'm relatively a novice in contest terms ... G6QQ. Found that it helped to disconnect the doorbell and telephone ... G0CGV. My arm got tired; I must be getting old (what

will they think down at the pub?) ... GI4BBV. My first single op CQ contest. I learned a lot! Great fun! ... GW4BLE (*Op. G3WVG*). The contest got me back onto the code speed which I had to use to get my license a few years ago ... HB9DCQ.

It was funny, on a CQ call, a KH0 came in ... HB9KC. My antenna, a Telrex TM30, is 25 years old and still doing well ... HB9ZY. Very high QRM, but it was fun ... OY9JD. Bad luck—worked 3W8CW twice on the same band; what a dupe ... OZ1BIZ. Tried my new antenna and found it OK (7 MHz vertical on supermarket metal roof) ... PA3BNT. Exciting contest this time: entered the contest with no children but with a chance of finishing with a son or daughter. "It" happened the weekend after the contest ... PA3BUD. First time I ever made over 1000 QSOs in the contest ... PA3CWL. First contest and I'm definitely infected by the "contest-kick-virus" forever; during the last few hours my fingers started to "tap dance" ... PA3FCD. I left my heart in TF ... TF3WW (*Op. OH4NRC*). Spent 30 minutes calling W's long path on 40, but no replies ... ZB2/G4FRE. No more all band efforts for me—way too much work for one guy ... 4U1ITU (*Op. WA2TMP*).

XE0DX called us in the last minute of the contest for our 40th zone on 40 meters ... UR1RWX. Operators were all school children ages 13–15 ... UZ3AYT. Very fine propagation on 7 and 28 MHz; even with our special call we still had lots of duplicates ... RL1P. We'll grow bigger for the next one—much more fun from UL7 than plain UA9 ... UL8LYA (*Op. UW9AR*). Conditions not so good ... JF1SEK. It was a nice exercise for my fist and ears ... JH1QDB. Wonderful world on 21 MHz ... JE1CTA. It was just a warmup for the next CQ WW ... JH3PRR/1. Many DX stations picked up my weak 20 watt signal ... JA4ENN/1. The band conditions were excellent, so I enjoyed it much in spite of my dipole antenna ... JH1NHY. My first operation with my left hand; until now I sent code with my right hand ... JA1YWG. Used homebrew electronic keyer ... JH1AOU. I could hear USSR zones and other signals, but I couldn't get QSOs ... JK1ZIL.

Top band QSOs are very difficult from Japan ... JR1EBE. Very exciting, will operate again ... JA2ODV. My home call is W1END; be here for the '89 test also ... 7J2AAF. My business kept me very busy, so there was no time for the competition ... JA2WZ. I got sick during the contest and was in the hospital for 6 hours ... JF2HPA. Thanks to HP1AC, 9Q5VM, and 5H1HK ... JE3ZFS. I over-rested—the CQ WW contest requires 48 hours continuous operation, and that is so hard for me ... JH4NMT. I had a QSO with zone 34 for the first time and made WAZ ... JE4CIL. Big blocks of W's against the Caribbean—a little window is requested by many, many JAs ... JA4ATV. The first day conditions were very good, but the second day was not so good ... JA4CUU. I got a new JA record—see you next year on all bands ... JA5DQH. I really enjoyed the big CQ WW Contest, as usual ... JE6JRY.

November 27 was poor for Europe ... JA6WHC. I like the low bands—thanks for the contest ... JA6GGD. My home call is KD7H; I enjoyed working the contest from this side of the Pacific ... 7J7AAM. Nothing especially! ... JG7JBZ. It was the first time I was ever called on 160 by North American stations ... JA7UMT. Enjoyed this test with my GP antenna ... JA8AJE. 3W8DX was not so hard to QSO ... JH8RGQ. Good conditions, but very tired ... JH8YCT.

STATION OPERATORS Multi-Operator Single Transmitter

A1K & K1A. AX3VT: VK3VT, VK3COH. **AT0N:** VU2JX, VU2NTA, VU2WAP. **BY1PK:** Wang Guo Xiang, Gong Ke Lu, Chen Ping, Yon Pi Dong, Chen Si Dong, Tong Xia Yong. **BY4SZ:** Xu Gennan, Zhao Jiren, Gao Jun, Ji Qingfen, Chen Shwei. **CT3FN:** DK3KD, DL1TEK. **DF0RR:** DL7APU, DL7AEAN, DL7AKC, DL7UX, DI7ON, DL7SI, DL6YCG, DJ4GK. **DK2OY & DL6MAO:** DK0MM: DJ9CB, DL4FJ, DJ7IK, DJ8WL. **DK8TZ:** DJ5AI, DL1SBF, DF3SV. **DL4B80 & DJ8RR:** DJ2YA. **DL8ER & DL1EFD:** DF5EN, DL7FP, DL9XY. **DL8LR:** DJ5LE, DF4PM, DJ7PT, DL8RE, DF4WY, DJ3ZX. **DL8WU:** DJ4AX, DL8DAS, DL1HX, DJ8BSW, DJ2YE. **DX1CW:** DU1CJC, DU1CW, DU1EFS, 4F1ARC, 4F1BYN, 4F1DMO, 4F1FP, 4F1FZ. **E43RCL:** Club. **FSIN & F6ARC:** F61WW, FD1LGE. **F6ENY:** Club. **FF6KPQ:** F6DZD, F6ETI, F6EUX, F6FIF, F6IPW. **GW8GT:** GW8BIC, GW4J8Q, GW3KYA, GW4LXO, GW5NF, GW5NN, G3OAY, G4PKT, G3SDX, GW4TTU. **H41KRR:** HA1ZZ, HA1DR, HA1XU, HA1XO, HA1ZV, HA1ZN. **H43KHC:** Nemeth, Tardi, Nemeth. **H45KGT/7:** HA7XD, HA6BMS, HA5WU. **H46KNG:** HA6IOB, HA6OA, HA6NG, HA6OO, HA6OI, Dekany. **H46KXN:** HA6OD, HA6NW, Szucs, Lcssei. **H46KV:** Bosczi, Dienes, Guylas, Virág, Nagy, Péter. **H46KCK:** Lukacs, HA8ZD, HA8VK. **H46KLE:** HaölM, HaölM, HaölM, Ha0MM, HA0NNN, HA0OB, HA0VN. **H46FE:** HB9APJ, HB9BEY, HB9CHY, HB9IQC, HB9MPU, HB9PJM. **H49CIN & H49ALM:** HB9BLQ, HB9CAT, HB9DDY, HB9YC. **H49GT:** HB9BTI, HB9CKL, HB9CMX, HB9C9H, HB9CVQ. **HG11S:** HA1AG, HA1AH, HA1DAC, HA1DAE, HA1SV, HA1TD, HA1TJ, Szabolcsi. **HGS4:** HA5AWH, HA5BNL, HA5FM, HA5GF, HA5IW, HA5LN, HA5MK, HA5ML, HA7RY, HA5WE. **HG6N:** HA6ND, HA6NF, HA6NO, HA6NY, HA6ON, HA6OO, HA6PX, HA6YD. **HG6O:** HA8IE, HA8JP, HA8JV, HA8KQX, HA8LKE, HA8PG. **HG9R:** HA9OA, HA9PP, HA9PV, HA9RU, HA9SU, HA9TA. **HG8D:** HA0DU, HA0DR, HA0HG, HA0NR, HA0IP, HA0HV, HA0IL, HA0ER. **HSBA:** JA0JCJ, JK1RQ, JR2BNF, K2BA, N9TG, SP5DDJ. **I2WVJ & I1XPQ:** I1ZEU, IKA8DZ, IKA2GL, K2VJ. **I04IND:** I4LEC, I4TJE, I4VEQ, I4YRW, I4CFZ, I4EAT, I4EWK, I4IND, I4LCK. **J43YBF:** JF4UF, JI2ICA, J3IMX, KGS, JN1PL, J03VU. **J43YCA:** JF3VXV, JG3MRT, JG3WDN, JG6VTM, JI3ERV, J3KGAD, JI3HEY, JRSPDJ. **J44YJA:** JG6PAF, J3LIU, JM3LJL, JK4KTO, J03PGL. **J45YAV:** JA5MVU, JH5PHC, JI2FCL, JG3UBE. **J47YAA:** JF7HLZ, JH0ORW, JJ3CNL, JN1VY. **J48YBY:** JE8BRO, JH8GFB, JH8PNE, JH8WBR, J01DFG, JR8DHA, JR80FE. **JE2YH:** JA2OLJ, JA2XZL, JE2WWB, JF2KPH, JF2POF, JG2NUD, JI2XUT, JI2CEE, JF2JVR. **JE2YRD:** JA7RHJ, JF3EOC, JF3VZU, JH1KRC, JI2KVV, JI3JGJ, JR2SCJ, JR2SQU. **JE6ZIH:** JA6QJG,

JF6DEA, JF6TMH, JG6CVO, JR6GKT, Narum. **JH8ZCD**: JE8DGG, JF8HOP, JF8MZL, JR8DHA, JR8OXT. JT1T: JT1B, Khosbayar. **K1AR** & K1EA, K1GO, K1VR, KC1F. **K2SG** & WA2SRQ. **K3PA** & K3YL. **K5NA** & K5KG, KU2Q, NJ2L, WB2Q. **K6VI** & W6OVO. **K8AZ** & K3TPU, K8NZ, N8AA, N8ATR, NM0NN, W8CAR, W8KIC, WB8XIE. **KBNN**/**B** & NC0CP. **K9UWA** & K9LA, KA9A, KR9U, KR9V, N09H. **K9HLB** & N81M, W9MHS. **K93HH** & NG1W. **K93MM** & K3IE, N3ARK. **KL7RA** & AL7CQ, AL7HC, AL7IF, K07N & K7DBV, NBXX, W7L, WA7TDZ, WJ7R, WJ7S. **KRB** & KT3M, W1XE, W8KEA. **KX8F** & NE3F. **KX8O** & KX6GL, KX6HE. **L1ZIA**: LZ1FLA, LZ1FLZ, LZ1RF. **L1ZKNP**: Ilia, Vlado. **L1ZKPG**: Club. **L1ZKRC**: Kasmir, Asen, Vasil. **L1ZKSF**: Club. **L1ZKWF**: Club. **L1ZKVZ**: LZ1GC, LZ1NK, LZ2KSD: Steve, Lubo, Zlatko. **LZ9A**: L22CC, LZ2DF, LZ2HE, LZ2II, LZ2PO, LZ2UA, LZ2UU, LZ1P-54, LZ2-E-41, LZ2-E-72. **N2BA** & K8HVT, N2AZS, W2VJN. **N3BNA** & K03CN, N3ENR. **N3HW** & N3RW. **N3RS** & K3JG, N3NA, W3XU. **N4MW** & A4ANA, K0LUZ. **NG1C** & AD6C, KJ6HC, NG8UL, NGVR. **NG6V** & K6PJY, KG6XV. **NA3K** & K3NL, NM3W.

NF6S & KF6VU, NGSKF. **OH1AF:** OH1CN, OH1EB, OH1EH, OH1HS, OH6LI, OH1MDR, OH1NOA, OH1NSJ, OH1XT. **OH2AQ:** OH2BKI, OH2BQW, OH2BUQ, OH2MAZ, OH2MEF, OH2NRV. **OH2BAH:** Club. **OH3AT:** OH3MP, DH3NXN, **OH6AP:** OH6NJO, OH6XKA. **OH8TA:** OH8DQ, OH8MCT, OH8NR, OH8UP, OH8WM, OH8ZZ. **OK1KHK:** Club. **OK1KLV:** Club. **OK1KQJ:** OK1AYP, OK1DC, OK1DXS, OK1CM, OK1IMP, OK1MR, OK1RR. **OK1KSL:** Club. **OK1KSZ:** Club. **OK1KZD:** Club. **OK1OFK:** Club. **OK10FM:** Club. **OK10RA:** Club. **OK10SPB:** OK1DPF, OK1DXK, OK1FOU, OK1FUW, OK2KDS: Club. **OK2KL1:** Club. **OK2KD0:** OK2BDI, OK2BGR. **OK2KUB:** Club. **OK3KGQ:** Club. **OK3KUN:** Club. **OK3KYH:** Club. **OK5R:** OK1ADM, OK1ADS, OK1ALW, OK1AWZ, OK1DM, OK1RI. **OK4A:** OK1AAU, OK1AEZ, OK1AI, OK1APJ, OK1CF, OK1WC, OK1WT. **ON6AH & ON4GO:** ON5IQ, ON6MH, ON7PC, ON6OR, ON7ZV. **PA3ACJA & PA3ALP:** PA3BLU, PA3BWD, PA3CAL, PA3ELX, PA3ERC, PD0MCL, PE1LWN, PE1LZZ, NL-9447. **PABKHS & PA3ADJ:** PA3ENJ, PA3EYZ. **PJ2K:** K1XM, K2WR, K2DHE, KQ1F. **R84EXF:** A. Berezhnjoi, J. Urchenko, V. Antonovich, R. Dashko. **RB4IWU:** S. Topolnik, V. Goltzman. **RL1P:** UL7PL, UL7PAE, UL7PCZ, UL7PEZ, RL7PKN, RL8PY, RL8PZ. **RL26AY0:** RA6AUS, UA6-101-355, UA6B6G. **SK5DB:** SMSAPI, SM5CRV, SM5CXM, SM5DGA, SM5IRV, SM5LRM, SM5PAX, SM5PEY.

SK5EU: SM0BDRD, SM0GLC, SM4WKO, SM5L5U, SM5UDU, SM5PH0, SP3GEM: Club, SP5KW: SP5XPS, SP5OAU, SP5RDN, **SP5PBP:** SP5ANJ, SP5ELE, SP5PKV, SP5QGK, SP5SLCT, **SP5PKW:** SP5AUC, SP5LXT, SP5BYF, SP5GMK, **SP9PDF:** Club, **SP9PZF:** SP9JZT, SP9MAL, SP9MZU, SP9MZW, SP9MZY, SP9MZS, SP9LAS, SP9LAB, **UB13WA:** UB15FZ, UB15IM, UB15OK, **UB4IZA:** UB3IJ3, UB5TC, UB5ILM, UB5-073-342, **UB3JWW:** UB3J3M, UB4JCFF, UB5J5M, UB4JD, UB4JR, **UB4EXN:** D. Zakharenko, S. Kireev, V. Tunduk, **UB4EZA:** V. Bubleniuk, V. Rozshko, A. Cherginets, **UB4FWC:** Club, **UB4FWH:** RB5FH, UB5FDG, **UB4FXX:** A. Sorokin, W. Kurales, **UB4IWI:** UBSIH5, RB5IG0, RB5IRG, **UB4IZH:** UB4IQI, UB5IDG, **UB4LYW:** UR5-077-1960, UB5LJC, UB5-077-1989, **UB4LZA:** UY5DV, UB5LEE, UB5LSL, **UB4MWU:** UB5MBM, UB5-059-431, **UB4NWA:** UB5-057-558, UB5NCO, **UB4OYA:** Club, **UB4SWB:** UB5NO, RB5X, RB5SS, **UB4TWL:** Club, **UB4VWM:** S. Kassov, A. Manannikov, A. Zhurakov, **UB4WZA:** UB5WCX, UB5WGR, **UB4WZB:** Petrenko, Pozigun, **UB4XWB:** UB5XB8, UB5QG, UB5-062-33, **UC1AWL:** RC2AZ, UC2AA, UC2AAX, UC2ADX, UC2AAV, UC2AJB, A. Kosarev, **UC1AWC:** A. Kabask, L. Burdin, W. Gorbski, O. Kiryanow.

U1C1CWB: U2C2EF, UC2CBV, DC-02-99-23. **U1C2WW:** I. Linskikh, A. Chernikov, A. Sanilov. **ULBWWB:** UL7B, UL7BB, UL7BN, UL7BU, UL7BL, UL7BW, UL7BO, UL7-016-389. **UL8CWC:** V. Korshunov, R. Ismailev. **UL8CWW:** UL7CT, UL7CD, UL7-028-270. **UL8GWB:** Y. Ivanov, I. Goncharenko, V. Pilcyn. **UL8LYA:** UL7LEN, UL7LER, UL7LEZ, UL7LD, RA9AD, UL7LT, UW9AR. **UP1BXF:** Club. **UP1BXL:** RP2BFEL, R. Zoderka. **UP1BXH:** UP2BON, UP2-038-1172. **UP1BYC:** UP2BTA, UP2CY, UP2-038-2504. **UP1BYK:** UP2BFY, UP2BJV. **UP1BYL:** Club. **UP1BZG:** UP2BCO, UP2OA, UP2BCW, UP2BCT, UP2BRJ, UP2-038-439. **U01GWU:** U02AG, U02DC, U02GJR, R02GG, U02GDW, U02-037-116, U02-037-531. **U01GWZ:** U02-037-290, U02-037-531. **U0BA:** U02GL, U02GM, RG2CN, U02GID, U02-037-466. **UR1RWX:** UR2RR, UR2RJ, UR2RDJ, UR2RH, UE2RMC, UR2RNG, UR2RME, UR2RNA, UR2RNT, UR2RNX. **UT4UWL:** UT5UKE, UT5ULL. **UT4UXW:** UT4UZ, UT5UGR, U5BCGN. **U1ZIAW0:** UA-169-2394, UA-169-2391, UA-169-2418. **U1ZIAWQ:** A. Timofeev, E. Onistenko, S. Dolzenkov. **U1ZIAWT:** UA1ALZ, UA-169-010, UA1ANA, V. Michalow. **U1ZINWF:** UN1-088-302, UN1BNB, UN1-088-24. **U1ZITWB:** RA1TE, UA1TAF, U2ZFWFA: U02PP, UA2CY, UA2FF. **U2ZFWHN:** M. Struk, I. Struk. **U2ZAXY:** P23DR, PW3DD, HA3-170-79, HA3ACW, HA3DSP, RA3DII.

U2ZFWN: N. Stryuk, I. Stryuk. **ZU3AXX:** R3DR, RW3DD, JA-170-79, U3ACW, U3ADSP, RA3DUO, UA3-170-210. **U3ZAYT:** Club. **UZ3DXC:** K01AGE/U3A, U3K2BWY, Q3JA, RD3X, FW3DP, SXP5MNP. **U3ZQYA:** Alexey, Alex. **U3ZXWB:** RA3XA, UA-3-127-200, UA-3-127-216, UA-3-127-204. **U3ZXWM:** UA3XFL, UA3CXO, UA3XCW. **U4AX4N:** UA4ADG, UA4ABS, UA4AHT, UA4AGF. **U4ZFXA:** UA4PMO, UA-248-666, UA4-148-723, UA4-148-473. **U4ZFWB:** B. Baranov, I. Gabitov, A. Nekrosov, A. Korotaev. **U5ZHWA:** U6HSV, UW6HSI, UA6-108-3033. **U6HXXW:** V. Chernetschenko, L. Belopolskotov, I. Kovajalov. **U6ZLWL:** Club. **U29QWM:** UA9QD, UA-134-128, UA9OFN. **U29SWY:** UA9SA, UA9SAW, UA9SDR, UA9SDW, UA9SCJ, UA9SJY, UA9SM, UA9TS, UA9TX, UA9TZ. **U29UWK:** Club. **Uz9UZL:** UA9UR, RA9UCK, RV9UER. **U39WWB:** UA9WQK, UA-084-2031, UV9WR, UA9-084-1535, UA9-084-2007. **U29XWV:** UA9-090-1053, UA9-090-747, UA9-090-1088, UA9-090-1058, UA9XC. **U29YXI:** A. Putincev, D. Selivanov, A. Firsov. **U29YXL:** Club. **U29AWB:** RA0AFI, UA-103-9, UA-103-73. **U29KWI:** UA0KK, UA0KKB. **U29QWB:** UA0QDL, UA0BN, UA0BBB, UA0QAS. **U29WBT:** UA0-038-1621, Stepan, UA0QEJ. **U29SXF:** UA-124-404, UA0NSR, UA0-124-044.

UZB-SWA: UAF-124-044, UABSWN, DAF-124-044.
UZBUWE: UW00U, UABVF, UABUY, UABUS, RA0UAR. **UZBWWP:** RW0WR, UA0WWFA. **VE2UMS:** VE2AKZ, VE2BLX, VE2FFE, VE2GDA, VE2GKS, VE2HMB, VE2ICU, VE2LIB, VE2LPS, VE2MPM, **VE3SPC:** VE3CUI, VE3ERT, VE3GND, VE3KQN, VE3KZM, VE3MVK, VE3MV, VE3PUA, **VE6AO:** VE6ANR, VE6CIZ, VE6CJZ, VE6CTY, VE6EY, VE6JO, VE6KC, VEGLES, VE6PY. **VE7ZZZ:** VE7ARS, VE7AV, VE7DP, VE7EME, VE7SK. **V02WL:** K3TM, NB30. **VP2MW:** AA5DX, KMSR, W05W. **VU2II:** VU2MAD, VU2TER, VU2TEC, VU2TEL, VU2WXZ, VU2WZY, VU2ZMZ, W2U1 & N3KR, **W3GG** & K3VGYU, KD3JH, KS1G. **W5ASP** & K5MA, K5RKV, K5VWW, N5CQJ, N5EA, V5VAH, V5WWN. **WE5HN** & A45BT, KG5KI. **W6BA** & N6AV, N6AW. **W6DAT** & W6X5. **W6REC** & N6TIB. **W7DG**: K7WF, KA7BLA, K7DZ, N7XJ, N7XD, WA7ILC. **W7TJ** & K7GS, NG7P, NQ7M, WA7EGA. **W7ZR** & Vladimir. **WBRLX** & K0KR, N00I. **WA4CTC** & K8UNP. **WBPH** & K3JJ, W8JSU. **WB8PAF**, **WB9JKI** & K5MF. **WM5G** & K5MR, K5RX, K5SXO, K09Y, KR8Y, NJ5N. **WJ60** & W6GP. **XE0BD**: K5JX, K5TS0, W5VX. **Y35L**: Y26IL, Y33TL, Y33UL, Y33VL, Y26WL, Y33ZL. **YB8ARA** & K5VT, N7BG. **YT2D** & YT2HX, YT2SW, Dario, Gal, Goran, Zronka. **YT3T**: YT3AM, YU3BQ, YU3DE, YT3EW, YU3HP, YT3NA.

YU2CCJ: Mike, Pero, Zlatko. **YU3AI** & **YU3BM**, YU3EO, YU3MM. **YU3DRL:** YT3FF, YU3VS. **ZC4ZR:** W6KG, W6QL. **3WBWCW:** HASMY, HA5PP, HA5WA. **4N1W:** YT7DR, YU2EU, YT7FN, YU7LL, YU1MM, YU1NZV, YU1SV. **4N2D:** YU2CQ, YT2DU, YU2DZ, YU2FK, YT2VM, YU2WQ, Bodo, Dado, Lee, Lukša, Mato, Tomy, Vido. **4N4D:** Boris, Edi, Salih, Tom. **4N4K:** YU4MH, YU4MV, YU4RS-4776, YU4XA.

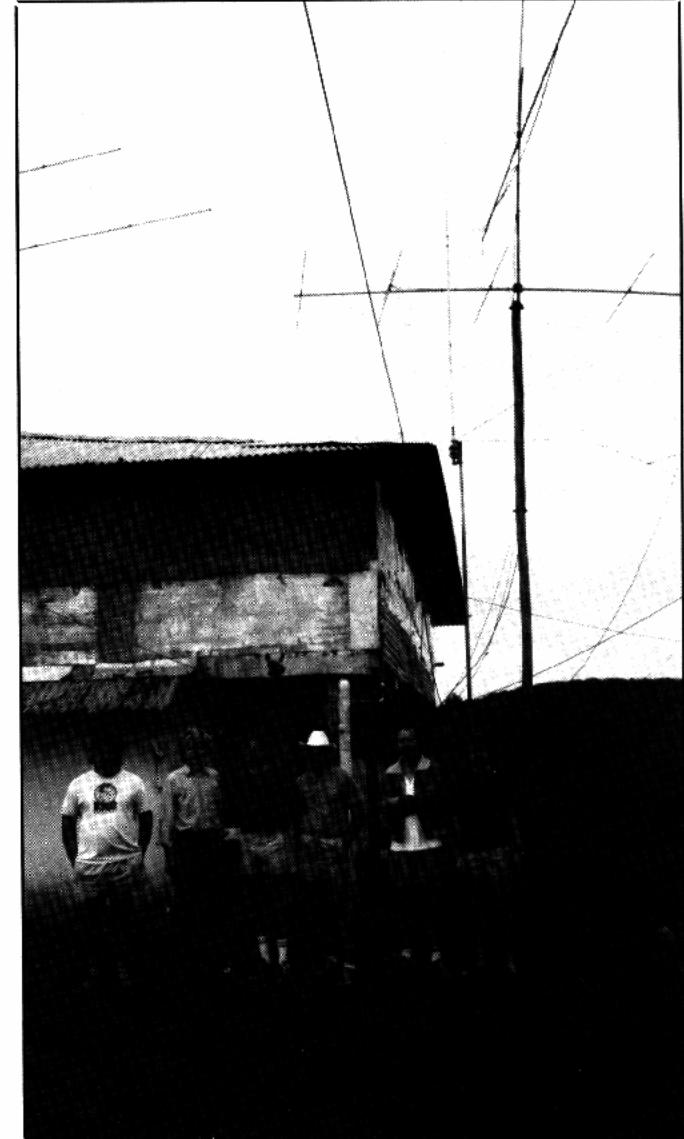
Multi-Operator Multi-Transmitter

DF2RG & DF7MV, DJ1OJ, DJ4YS, DL7MAE. **DF0DX**: DF4EN, DF8AE, DF9VB, DK2ZD, DK4OK, DL1SBR, DL1YAW, DL2SAK, DL4YBM, DL6YDE. **DL0KF**: DF3LZ, DL1DI, DJ2V, DJ3UL, DJ4FZ, DJ6TN, DJ7WS, DJ8HB, DK9AV, DL4LBK, DL8PY. **EA9EA**: EA1AK, EA3KU, EA4ADE, EA4ADS, EA4EFK, EA4KR, EA4MY, EA5BM, EA5BRA, EA5FWU, EA7ALG, EA7TL, EA9EO, EA9EU, EA9GK. **HD8EX**: AA6T, DL7AV, N6RZ, N6TU, W6NVN, WB6SHD. **JAY1DA**: JH0LFE, JH0NZN, JH0SP, JH5GHM, JH9AMJ, JI2GUT, JO1BWMV, JO1DIL, JO1RUR, JP1JPG, JP1NWZ. **JAY2YKA**: JE2JCU, JE2VZB, JE4LIK, JE7BIZ, JF2DJU, JF2PZH, JF2PZH, JF2UTI, JG2VTD, JI2FAU, JI2JBZ, JK1GRI, JK2CZL, JK2GYO, JL2KRD, JL2TC, JM2CVT, JM2FD, JM2RBB, JR0IPB, JR2GMC, JR70MD. **JAY4JUC**: JA6BXA, JA6CNO, JA6VBZ, JE6IGP, JE6UWJ, JE6UWU, JF6MND, JF6TAC, JH6SR, JI6DUE, JI6EDY, JI6GPX, JI6XZG, JKL6CY, JR1QI, **JAY8BA**, JA9LNU, JA9OTX, JA9QWJ, JA9VDA, JH0CAZ, JH9VSF, JA9-10148. **JAY2RY**: JH0ILL, JH5XDD, JH9CQD, JP1GOQ, JP1NOM, JO10TD, JR8BQD, JR10GI, JA4LIL, N Inukai, **JE1YEM**: JA0OPG, JH1IZR, JI1MUG, JH1YHS, JF1WHA, JH1UA, JR6GG, **JR12T**: JE7PN, JF3NRI, JF7WED, JN1MSO, JO1CEA, JP1MWB, JP1NIR, JR4WKV, JR5PMI, JR5RMWB. **K1RX** & Packet.

K1ST & K1FWE, K1MNS, N1ATN, NB1H, NK1K, N1BL, Q1IHN, WA1TFH, K2TD & WB2R, WB2YDF

K4JPD & **AA4LU**, K4XR, KB4HZ, N4FD, **N6BFM**, NQ4I, W6CNL, **K4VX/H** & K4XU, KB6GL, K9FD, NJ9J, NSBZ, N4CC, **W6OG**, **K5BM** & **K6MT**, K16EZ, N6OP, N6BL, N4PIW, **W6R**, **K4KPH** & **N6UCO**, **Packet**, **K2P** & **A6ARX**, K0RF, K2NA, K6XDO, **KC9SD**, KC7V, KY7M, N2IC, N6DX, N6VI, NP2E, W0JLC, W6RRG, **KQ20** & K2NJ, KU2C, NR2H, **KY1H** & **KW1B**, KR1R, KS1N, KT10, NB1Y, NJ1F, NJ1T, NS1M, NT2X, W1BS, **LX8A**; DC3FB, DF4RD, DF6RI, DF7RX, DJ0IP, DJ1US, DJ2BW, DJ3TF, DK5PD, DK7PE, DK8ED, DK8FD, DK9IP, DL1HCM, DL1MAJ, DL1VJ, DL2NBZ, DL3NC1, DL4NAC, DL5B2KH, DL5MAE, DL5RDU, DL5UD, DL6FBL, DL6RAI, DL7MAT, DL8NB8J, DL8WH, DL9RDL, LA1PBA, LA4DCA, LX1JP, LX1MK, LX1RQ, LX1WW, Angela, Thomas, **MN3Q** & **DL7AEY**, K1BW, K8GL, KC10, KD2SX, K1P, KM2P, NS1I, W1CJK, **N2RM** & **N2MR**, **WM2H**, **N6ND** & **K6JYQ**, K6STI, K6ASR, K16MS, K17KM, K26E, N6CW, N16W, W6KUT, WA6OTU, **NB4A** & **AB8X**, K0UAA, K8VBU, KB0U, NX0I, **NF2L** & **K2BU**, KY2T, N3RG, **NK1F** & **Packet**, **NL7G** & **KL7DM**, KL7FH, KL7HKA, KL7PJ, KL7U, KL7Y, NL7GP, WL7E, **NR5M** & **AD8O**, AK5B, K2TNO, K2UA, K5GA, K5GN, K5LZ0, K5RC, K5VIF, KG5U, KN5H, K25M, N5IVF, NT5D, W5XZ, WB5N.

OH1AA: OH1CO, OH1LD, OH1LF, OH1G, OH1HD, OH1JD, OH1KO, OH1SV, OH1SY, OH1WR, OH1WZ,
OL8A: OK2FD, DC3CB, DK3CDV, OK3CGP, OK3KM, DK3CQR, OK3CSQ, OK3CU, OK3CZM, OK3EA,
OK3EV, OK3GB, OK3GU, OK3JW, OK3LU, OK3LZ, OK3NA, OK3NY, OK3PA, OK3RM, OK3TAP, OK3TPV,
OK3YEC, OK3XY, OK3ZAF, **PAGDX:** PA0CLN, PA0COR, PA0JMH, PA0LB, PA0VAJ, PA3AAV, PA3ABA,
PA3ABAS, PA3BFM, PA3CEE, PA3CEF, PA3CTM, PA3CWM, PA3DFT, PA3DQW, PA3DWD, PA3ETY, **PABV:**
A16V, AJ6V, K7RIE, K7SS, K7WA, K7XK, KE7V, K02B, N61G, N7NG, NB6G, NV6Z, W4ETO, W7WJ,
W6AUE, **PJB1:** K2SB, K2SS, K2TW, K3EST, K3VW, KT3Y, N2AA, N3ED, N3RD, N4RV, PJ9EE, W2GD,
W3UJ, WA3LRO, **UP1BZ0:** UP2BFN, UP2BKZ, UP2BMT, UP2BMX, UP2BNC, UP2BQ, UP2OO, UP2NK,
UC1AP, UP2-038-346, UP2-038-728, UP2-038-1751, **UPBA:** UP2BAM, UP2BIP, UP2BIL, UP2BRF,
UP2PAJ, UW3AA, **W3GM** & AA4II, K3ND, K3OA, KG6AN, N2EA, N2ZR, WB3GN, W3FV, **W3LPL** & A13M,
K3RA, KA1GD, KF3P, NL8I, ND3A, NW5E, W3EK, WA8MA, WB3FSB, WB3JRU, WD4AXM, **W8BI:**
KABOKC, NB8JO, N9AG, W8DN, W8FN, W8BL, W8OK, WD9CNF, **W8AH/9** & K0FVF, KM80, NB8SH,
NB9C, W8UJC, WA0RBW, WA8WSR, **W8BB** & K6YSE, N8DQJ, W8CZN, W8JGU, WA8RCN, Y34K: Y23EK,
Y23FK, Y24UK, Y25ZQ, Y27FN, Y37Y, Y42LK, Y42MK, **YT2R:** YU2DQ, YU2HO, YU2IQ, YU2MP, YU2MY,
YU2NJ, YU2OG, YU2OH, YT2FI, **ZB/ZGW3NY** & K1RBY.



Don Guido, HC8GR, of the Association DX-ED, provided a rustic volcano-top QTH for the gang at HD8EX. The tough hombres behind the key were (left to right) Lloyd, AA6T; Tom, DL7AV; Oliver, W6NV; Bruce, N6TU; Dave, N6RZ; and Rob, WB6SHD.

WORLD TOP 10 QRP

(5 W Input)

All Band

1. YU3BC	1,241,286	6. KR2Q	565,128
2. WA2HZR	889,913	7. JI1CBF	549,917
3. NX7K	865,171	8. HA1XR	480,690
4. VP2EQ	808,920	9. G4ELZ	466,272
5. RB5IU	797,056	10. UD6DFF	421,553

TEAM CONTESTING

Team Japonica by 5H1HK (Opr. JE3MAS), KH0/JE1CKA, KC6CS (Opr. JE1JKL), JH7WKQ, and EL2FY (Opr. JA1XAF) **18,154,582.**

CW RESULTS SINGLE OPERATOR NORTH AMERICA

United States

W1KM A 4,466,557 2632 156 421

K1CC " 3,915,610 2548 141 366

K1TD " 3,849,115 2245 157 432

N6BV/1 " 3,170,260 2071 141 400

K1RU " 3,166,800 2016 144 402

K1VR " 2,564,992 1893 121 333

(Opr. KM3T)

KG1D " 1,483,299 1245 111 300

W1WAI " 1,446,192 1057 126 358

N4XR/1 " 1,378,236 929 139 377

W1FJ " 1,331,512 987 127 345

K2SX/1 " 1,037,700 818 123 327

W1MX " 989,825 812 121 304

W1MK " 982,620 1065 94 224

K1WJL " 903,260 814 109 271

W1BIH " 851,160 861 106 240

K3FN/1 " 848,331 669 128 323

W1AX " 751,729 643 112 295

N1ELN " 710,073 715 101 250

W1BR " 672,920 665 116 244

W2AX/1 " 595,296 590 95 255

KA1DWX " 588,245 600 99 244

W1XN " 355,911 471 85 182

K1CLN " 295,960 387 86 194

AB1U " 236,903 348 75 166

N1RC " 202,725 329 63 160

W1FM " 145,036 266 72 130

K1VKO " 142,606 233 76 150

K1YRP " 130,134 323 39 99

K1SA " 115,564 232 94 98

WA1UAR " 95,228 193 61 118

N1DC " 94,308 199 51 123

N011 " 79,520 175 52 108

N1AU " 78,120 156 64 116

K1ZZJ " 59,360 149 48 92

W3WDX/1 " 32,450 103 46 72

W0RSG/1 " 19,646 81 36 58

W1CNU " 7,024 76 15 35

W1GG " 6,954 42 22 39

K1ZZ " 537,568 1235 34 123

W1WEF " 277,815 731 31 92

K1UO " 219,252 617 30 91

W1PH " 60,705 221 26 69

K1IK " 58,824 160 24 62

K01V " 29,241 130 21 60

KA1RPO " 22,605 156 18 37

W1RM " 591,038 1235 36 127

W1NG " 449,526 1013 37 117

K1XA " 417,745 1021 36 109

KM1X " 315,392 855 33 95

K1EFI " 215,560 545 34 102

WB1DXD " 187,000 639 26 74

W1RR " 203,635 510 38 101

WA1FCN " 186,538 458 39 100

W1YN " 107,210 263 40 102

K1K1 " 18,312 117 21 35

K2MN/1 " 6,248 49 12 32

W1PLJ " 319 10 4 7

W1GH " 82,062 292 25 72

AA1M " 12,750 89 10 41

WB1AEL " 12,320 79 16 39

W1FV " 3.5 225,150 691 30 84

K1NA " 140,192 468 27 77

W1AB " 1.8 2,146 30 9 20

N2LT " A 3,757,462 2289 155 408

N2MM " 2,705,547 1819 143 376

NY2L " 2,358,240 1856 150 360

N2NT " 2,161,905 1500 132 373

K22S " 2,140,000 1707 116 312

N6CO/3

W3UJ

A43B

W3GU

N3CX

NM2Y/3

K3ZJ

W3GRF

A4A3B

W3FGB

N4JW

W4BD

K4TE

W4JX

W4WJ

K4PR

W4XJ

W4WJ

N6CO/3

W4WJ

NE9U	359,094	448	98	193	VE3HCT	"	2,025	121	5	4	OH7JT	/CT9	7	904,038	2195	35	103	JA1GO	"	14,440	69	27	49	JA6ODU	"	1,008	24	7	7							
W9KTP	298,704	409	79	175	VE4IM	A	300,384	452	90	162	VE4MF	28	9,261	64	18	31	JH1BUB	"	13,936	98	20	32	JA6YCL	21	184,264	525	36	88								
NJ9Z	235,161	332	87	174	VE5DZ	A	258,700	524	74	125	VE6BMX	"	155,925	287	85	140	Mayotte	FH5EF	A	1,012,813	1297	35	103	(Opn. JE6EKC)												
KSLJN	185,808	290	82	155	VE6SWL	"	9,048	90	21	18	VE6BF	21	107,476	474	28	69	Morocco					JH6TNH	14	5,168	48	11	27									
W9NA	174,270	283	77	145	VE7CR	"	155,925	287	85	140	VE7CR	21	228,420	974	29	55	JA1AOU	"	10,340	71	21	34	JA6GGD	3.5	1,875	28	8	17								
W9HE	164,495	290	66	131	VE7CR	"	9,048	90	21	18	VE7CR	14	268,500	873	38	87	JA1DXC	"	7,068	42	21	36	JH7WKD	A	2,398,674	2124	139	258								
NT9O	133,672	239	77	119	VE7CR	"	9,048	90	21	18	VE7CR	"	9,048	90	21	18	(Opn. VE6BPM)					JA7YAB	"	1,086,540	1383	98	175									
N9BL	133,216	260	60	124	VE7CR	21	107,476	474	28	69	VE7CR	21	107,476	474	28	69	(Opn. WA4UAZ)	CN8FC	28	433,818	1464	25	74	(Opn. JE36363)												
K9MD0	133,131	242	92	107	VE7CR	A	766,303	1259	95	156	VE7CR	"	163,386	231	105	156	Nigeria					JA7JHT	"	337,008	506	95	141									
K9UQN	125,800	265	58	112	VE7CR	"	163,386	231	105	156	VE7CR	21	228,420	974	29	55	JA1NLX	"	72,420	253	34	68	JA7ASD	"	175,778	330	67	112								
K9HCX	110,152	205	72	124	VE7CR	14	268,500	873	38	87	VE7CR	"	21,417	125	20	39	JA1BHZ	"	10,940	86	22	26	7J7AAM	"	28,782	95	49	68								
W9VA	82,390	187	58	96	VE7CR	"	21,417	125	20	39	VE7CR	"	21,417	125	20	39	JA1VAH	"	4,484	28	16	22	JA7AXP	"	10,465	64	25	40								
WA9NPM	73,140	186	48	90	VE7CR	"	21,417	125	20	39	VE7CR	"	21,417	125	20	39	JA1AT	"	3,698	60	12	15	JA7YAB	"	1,086,540	1383	98	175								
K9OSH	51,852	131	63	86	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JE36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
W9NNE	47,334	114	57	90	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
N9AZD	39,270	135	36	69	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
WB9OCY	38,325	128	43	62	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
KR9Z	27,538	97	42	56	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
K9AIMX	26,967	100	42	59	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
K9ACD	26,048	110	31	57	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
K9CC	9,577	57	21	40	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
WA9VGY	8,640	50	21	39	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
KB9OD	7,729	47	22	37	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
KB9OE	2,178	25	12	21	W7DRA						VE7CR	14	250,632	746	38	80	(Opn. JA-36363)	JR1XFS	14	250,632	746	38	80	(Opn. JA-36363)												
N9RD	28	165,750	437	32	98	KG4XO	A	943,542	2183	63	139	Honduras																								
KO9Q	29,008	142	25	49	KG4XO	A	943,542	2183	63	139	Honduras																									
N4RR/9	21	389,002	989	36	98	JA6WFM						JA6WFM	28	20,265	253	11	24	Sudan																		
KC9T	306,084	780	35	103	JA6WFM	28	20,265	253	11	24	Tanzania																									
K9DV	296,259	645	38	119	JA6WFM	28	20,265	253	11	24	JA6WFM	28	184,652	638	33	73	Zaire																			
KK9V	208,978	609	29	89	JA6WFM	28	20,265	253	11	24	JA6WFM	28	184,652	638	33	73	Zaire																			
W9SC	71,344	236	33	71	JA6WFM	28	20,265	253	11	24	JA6WFM	28	184,652	638	33	73	Zaire																			
K9CLO	14	143,000	395	38	92	JA6WFM	28	20,265	253	11	24	JA6WFM	28	184,652	638	33	73	Zaire																		
KK9A	80,190	279	30	69	JA6WFM	28	20,265	253	11	24	JA6WFM	28	184,652	638	33	73	Zaire																			
WA9EKA	7	100,182	300	31	87	FM5BH	7	609,235	1948	29	92	JA6WFM	28	184,652	638	33	73	Zaire																		
W9WAO	3.5	25,200	124	21	54	FM5BH	7	609,235	1948	29	92	JA6WFM	28	184,652	638	33	73	Zaire																		
KD9SV	1.8	5,800	57	15	35	XE10H	A	1,356,005	1984	108	193	Mexico																								
KE9I	1.8	1,482	26	10	16	XE10H	A	1,356,005	1984	108	193	Mexico																								
W9WP	A	1,527,110	120	132	304	XE2GCK	"	202,500	748	54	71	Montserrat																								
KF9B	A	1,389,968	1125	140	296	XE2GCK	"	202,500	748	54	71	Montserrat																								
N0AT	740,925	794	113	220	XE2GCK	"	202,500	748	54	71	Montserrat																									
KV9V	531,806	243	89	164	XE2GCK	"	202,500	748	54	71	Montserrat																									
N0ZA	402,590	589	98	156	XE2GCK	"	202,500	748	54	71	Montserrat																									
K0II	182,664	384	54	118	XE2GCK	"	202,500	748	54	71	Montserrat																									
K0TLM	166,391	255	79	148	XE2GCK	"	202,500	748	54	71	Montserrat																									
KF9T	154,790	224	84	146	VP2MDC	A	1,163,160	1743	77	193	VP2MDC	A	1,163,160	1743	77	193	Asia																			
W9RXL	111,720	219	66	124	VP2MDC	A	1,163,160	1743	77	193	VP2MDC	A	1,163,160	1743	77	193	Asia																			
N0B0H	34,980	95	53	79	VP2MDC	A	1,163,160	1743	77	193	VP2MDC	A	1,163,160	1743	77	193	Asia																			
K0GT	13,728	55	39	49	VP2MDC	A	1,163,160	1743	77	193	VP2MDC	A	1,163,160	1743	77	193	Asia																			
KA0YXI	96	96	8	7	5	VP2MDC	A	1,163,160	1743	77	193	VP2MDC	A	1,163,160	1743	77	193	Asia																		
WB9ZV	28	331,975	834	33	103	VPSU	A	4,509,262	4200	115	318	VPSU	A	4,509,262	4200	115	318	Asia																		
N0JR	96,099	323	28	75	VPSU	A	4,509,262	4200	115	318	VPSU	A	4,509,262	4200	115	318	Asia																			
KJ9JB	92,288	309	27	76	VPSU	A	4,509,262	4200	115	318	VPSU	A	4,509,262	4200	115	318	Asia																			
K9WYI/0	70,176	261	29	67	VPSU	A	4,509,262	4200	115	318	VPSU	A	4,509,262	4200	115	318	Asia																			
K1BE	21	49,210	253	24	45	VPSU	A	4,509,262	4200	115	318	VPSU	A	4,509,262	4200	115	318	Asia																		
K1BE	21	17,737	253	24	45	VPSU	A	4,509,262																												

UA9MHV	"	11,178	89	15	31	OE3RE	"	245,729	556	74	177	DK2BVH	ZI	329,328	979	38	106	G3GGS	"	250,008	418	71	193	OH7NW	"	46,125	306	46	129
UA9LT	"	2,830	61	8	8	OE3JS	"	140,140	304	67	129	OK1ZL	"	184,125	670	34	91	G4ZFE	"	200,665	550	56	139	OH2VZ	"	47,376	140	54	84
UV9CC	7	18,536	148	17	39	OE3OLW	"	30,328	223	50	86	OK1AXV	"	99,298	355	35	81	G4XTM	"	81,048	614	36	96	OH2BYS	"	18,012	66	49	65
UA9ND	"	16,002	130	11	31	OE1NB/3	28	311,148	872	37	97	OK1DRR	"	94,503	382	30	79	G5MK	"	12,882	141	17	21	OH9RR	"	13,728	59	41	47
UA9CBM	3.5	105,999	471	22	67	OE5KE	"	259,749	720	33	100	OK1FFU	"	93,112	404	31	72	G4ZME	"	11,283	183	36	66	OH1PY	"	9,300	52	26	49
LA9OA	"	91,589	556	15	52	OE3GSA	7	319,000	1200	33	92	OK1CDZ	"	71,730	354	29	61	G3LNS	28	375,777	1303	35	94	OH7SM	"	8,280	110	26	43
UA9SGN	"	85,775	431	16	57	OE1FTW	"	65,968	224	22	63	OK1DZJ	"	62,127	300	28	53	G6CKP	"	91,512	329	34	89	OH9RP	"	7,871	242	40	53
RA9AE	"	66,072	430	15	49	OE1WNR	"	29,392	244	9	35	OK2BTP	"	35,036	194	25	51	G4UZN	"	79,540	319	27	70	OH2RL	"	7,314	62	14	51
UA9XCH	"	1116	35	7	11	EA6GP	A	186,592	632	52	144	OK2VX	"	23,912	152	23	38	G60Q	"	48,585	259	24	55	OH2TI	28	167,255	560	35	193
UA9AQN	1.8	54,780	334	11	49	EA6VQ	28	149,316	739	28	64	OK3R	"	21,000	122	27	48	G4CNY	21	361,800	1175	37	98	OH6RC	"	55,818	201	33	93
UW9CO	"	50,930	336	11	44	ON4KFM	A	55,424	245	38	90	OK2BHE	"	8,456	59	19	37	G3SXW	"	380,720	1105	37	107	OH9UW	"	52,325	260	30	85
UA9FAR	"	27,047	222	8	35	ON4XG	14	125,215	607	30	78	OK1DIL	14	78,880	295	33	82	G3FXB	14	708,724	1836	39	124	OH8RV	"	10,812	81	24	44
UA0LH	A	489,311	780	102	167	ON6LO	"	22,326	206	16	45	OK1SZ	"	60,442	354	28	66	G3TXF	"	422,408	1332	40	112	OH5MQ	"	2,418	59	8	23
UA9WM	"	139,245	456	71	114	UA0WQ	"	109,040	300	48	97	OK2PAJ	"	58,042	337	32	74	G3KDB	7	196,440	846	32	88	OH5MX	"	2,054	43	9	17
UA0SR	"	91,980	274	46	94	UA0LCZ	"	91,840	211	66	98	OK1FKW	"	54,805	343	25	71	G3IGW	"	13C,074	631	28	82	OH6RM	"	283,155	1010	38	91
UA0DA	"	81,726	359	41	65	LZ2TU	A	625,809	935	94	243	OK1DHJ	"	37,584	270	21	60	G4ARI	3.5	18,864	285	9	39	OH8LC	"	14,054	544	34	88
UA0SPB	"	75,992	320	42	76	LZ1CW	"	260,592	479	83	184	OK3CAB	"	33,375	288	20	55	OH3MP	"	17,909	358	29	68	OH8NC	"	18,662	167	20	42
UA0SY	"	65,241	257	38	61	LZ2QV	"	239,365	577	74	171	OK3CMW/P'	"	33,022	251	24	55	OH7EU	"	14,080	143	17	38	OH1FQ	"	14,080	143	17	38
UA0UAG	"	40,641	270	41	62	LZ1BJ	"	40,255	204	29	68	OK2BEM	"	26,832	141	23	70	OH3WD	"	31,773	135	29	60	OH6MBQ	"	20,043	228	13	38
UA0FDX	"	12,802	270	16	21	LZ2RM	"	2,916	29	15	19	OK3CAY	"	26,462	148	34	67	OH8NL	"	18,662	167	20	42	OH3MP	"	17,728	64	6	18
UA0KCL	"	3,876	28	24	27	LZ1ZP	28	62,775	270	31	62	OK2BPB	"	9,360	164	10	35	OH7D/F	"	1,034	35	6	16	OH7MA	14	534,691	1501	39	112
UA0KAT	"	2,548	46	26	34	LZ1AZ	"	53,126	232	31	70	OK3CSX	"	4,512	71	10	37	OH7MA	14	534,691	1501	39	112	OH1FQ	"	14,080	143	17	38
UA0AG	28	144,550	8529	27	71	LZ1KD	21	752,623	2101	37	110	OK1HR	"	4,095	102	7	31	OH7NU	"	9,160	153	10	30	OH7VU	"	127,050	908	23	52
UA0YO	"	127,696	245	65	76	(Op. LZ2AX)	"	375,235	1092	39	112	OK1FSW	"	3,116	64	10	28	OH3RD	"	46,614	315	29	73	OH6LQ	"	127,050	908	23	52
RW0AM	"	56,636	260	27	69	LZ1KOZ	"	375,235	1092	39	112	OK1DLS	"	1,620	53	7	20	OH3RO	"	27,740	219	21	52	OH6LQ	"	127,050	908	23	52
UA0LAF	"	32,508	261	21	42	LZ1KXA	"	339,712	1296	35	93	OK1DFF	7	98,307	600	24	75	OH7D/F	"	1,034	35	6	16	OH4NSG	7	94,653	462	31	86
UA0LS	"	27,633	253	23	38	LZ1KBL	"	96,336	244	32	75	OK1DFF	7	98,307	600	24	75	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0OCZ	21	66,528	424	18	54	LZ1QD	14	65,208	456	26	62	OK1ABP	"	69,960	330	26	80	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0CQ	"	27,552	122	26	58	LZ1TF	"	19,220	201	21	41	OK1XJ	"	65,268	404	22	62	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0SCL	"	4,800	123	20	20	LZ1V	7	509,472	2388	34	82	OK1AJY	"	40,448	311	24	55	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
RA0UJ	14	187,924	738	34	77	LZ1KC	"	120,582	609	29	70	OK1DLF	"	26,715	192	17	48	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
RA0SP	"	47,512	254	23	45	SV9ADH	14	100,584	895	26	62	OK1DOH	"	16,170	192	14	41	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0FAD	"	39,193	254	29	48	Czechoslovakia	"	29,370	389	10	56	OK1DOR	"	16,170	192	14	41	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0BCK	"	31,722	112	34	68	OK1DMN	"	249,645	1136	119	319	OK1DOR	"	13,850	237	10	39	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0UAU	"	23,055	164	21	32	OK1DCE	"	200,200	586	59	161	OK1DOR	"	12,204	132	12	42	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0CF	"	4,160	34	24	28	OK2PCF	"	364,455	70	70	197	OK1FCW	1.8	55,809	543	15	66	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UA0JA	7	7,854	90	7	26	OK2KPS	"	131,410	425	46	145	OK1FUA	"	7,172	155	8	36	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
Kazakh	"	2,547	131	26	51	OK1MZD	"	130,453	418	46	145	OK1FUA	"	5,175	96	7	38	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
RL7AB	A	2,333,558	2044	109	302	OK1KJG	"	116,700	338	48	102	OK1FZM	"	3,762	107	6	32	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UL7JW	"	225,212	826	34	88	OK1KJG	"	257,754	594	61	177	OK1OPT	"	21,960	235	14	58	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UL7JGX	"	72,210	380	25	58	OK1KMU	"	249,645	380	87	180	OK1DOR	"	17,550	281	10	44	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UL8GBV	"	36,654	261	33	55	OK1KDMQ	"	67,776	141	69	123	OK1DOR	"	10,620	138	12	47	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UL7PGT	14	98,394	378	29	64	OK1KIFM	"	61,776	180	48	84	OK1BVR	"	561	37	14	55	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UL7PFH	7	5,244	72	12	26	OK1IAWF	"	60,690	240	34	68	OK1BVR	"	272	9	7	9	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
UL7EA	3.5	8,064	98	9	27	OK1DOW	"	50,336	258	35	108	OK1BVR	"	240	22	3	12	OH7MA	14	534,691	1501	39	112	OH4NSG	7	94,653	462	31	86
Kirghiz	"	46,747	232	32	94	OK1FBH	"	47,6																					

SINGLE OP ZONE WINNERS															
Zone		Call		Score				Zone		Call		Score			
ZB2		7	/B4FRE	22,649	251	14	57	1	NL7DU	139,555	21	HZ1HZ	1,914,938		
Gibraltar								2	VE2LJ	438,840	22	AT0Z	425,024		
Greece								3	K5MM/7	2,160,000	23	JT1BR	215,968		
Hungary								4	W9RE	3,487,232	24	VS6UP	712,597		
A0HW	A	724,850	1103	109	241			5	W1KM	4,466,557	25	JH7WKQ	2,398,674		
HA0DD	"	235,848	432	82	166			6	XE1OH	1,356,005	26	No Entry			
HA1SL	"	204,102	502	59	148			7	K0KJ/HP1	484,133	27	KC6CS	4,906,470		
HA3FO/1	"	111,045	259	62	103			8	8P9HT	7,323,030	28	YC3HVM	1,064,350		
HA7ML	"	88,543	346	38	41			9	FY5YE	9,574,096	29	VK8AV	803,400		
HA8IR	"	62,491	210	45	98			10	HC5M	8,849,300	30	VK2APK	452,228		
HA9YK	"	36,207	264	19	62			11	ZY5ZBA	1,045,354	31	AH6AZ	1,655,970		
HABRJ	28	162,261	598	32	89			12	CE1IDM	1,208,704	32	ZL3GQ	2,286,384		
HABUD	"	145,034	431	37	90			13	CW8B	1,496,556	33	CT3BZ	5,495,616		
HA2GJ	"	27,722	34	14	19			14	CT2NH	4,683,500	34	SU1ER	6,134,568		
HA4XX	21	215,586	783	35	91			15	UP3BP	2,697,081	35	D44BC	7,407,750		
HA7UI	"	151,690	647	30	80			16	UA3RAR	1,886,624	36	9Q5DX	1,853,697		
HA1CC	"	63,665	355	26	59			17	RL7AB	2,333,658	37	5H1HK	5,627,686		
HA1TC	"	63,665	355	26	59			18	UA9MX	858,942	38	ZS6BCR	832,524		
HA2D	"	63,665	355	26	59			19	UA0LH	489,311	39	FH5EF	1,012,813		
HA6PX	1.8	31,806	486	13	49			20	4Z4DX	859,342	40	TF3WW	3,606,304		
Iceland															
TF3WW	A	3,606,304	4102	105	311										
(Opn. OH4NRC)															
TF3SD	21	23,332	143	20	56										
OH4NS/TF	14	64,859	448	23	56										
Ireland															
E14N	A	85,560	307	37	87										
Isle of Man															
GD4UOL/A	A	615,600	1431	74	226										
(Opn. G4UOL)															
Italy															
I0ZUY	A	936,540	1410	99	231										
I0KEJN	"	211,370	919	67	163										
I0K2AHB	"	207,045	472	71	144										
I0K0FEC	"	69,913	213	49	102										
I0K2AIT	"	65,219	263	42	79										
I0K3HHY	"	37,080	108	37	53										
I0K3HXF	"	12,240	88	25	26										
I0K4GNK	"	10,150	116	17	53										
I0V3JWR	28	197,768	1040	34	84										
I1BAY	"	174,915	645	31	86										
I1B0Y	"	128,592	571	30	80										
I03VJW	21	304,051	1022	33	98										
I2KGSN	"	289,845	1019	35	96										
I2K2LE	"	12,128	174	28	74										
I2Y3TD	14	12,668	164	15	46										
I3JSS	7	582,259	1860	32	105										
I0K2DVG	1.8	76,788	728	16	63										
I3VHO	"	36,499	482	15	50										
ITU Geneva															
4U1ITU	A	739,53	1298	84	213										
Luxembourg															
LX2PA	A	44,660	164	50	90										
LX2AA	14	34,804	282	19	58										
The Netherlands															
PABINA	A	840,708	1059	97	266										
PA3CWL	"	528,699	1016	86	223										
PABUV	"	223,960	490	67	153										
PA3CJP	"	2,126,476	461	63	159										
PA3ACC	"	153,900	426	51	129										
PA3BUD	"	132,867	312	56	133										
PA0SKP	"	58,344	203	44	99										
PA3BTH	"	30,952	118	51	77										
PA3BNH	"	26,544	177	29	55										
PA3BBP	"	14,418	63	40	49										
PA3CAU	"	10,907	126	25	48										
PA0YNN	"	8,322	98	16	22										
PA3OKX	"	6,630	57	38	58										
PA3CCF	"	6,120	36	24	36										
PA3CNI	"	3,850	77	22	38										
PA3CXG	28	111,996	473	31	77										
PA3FCD	"	63,080	310	27	88										
PA3EVW	"	56,727	235	31	68										
PA2REH	21	163,448	730	29	75										
PA0PLN	14	7,152	97	12	36										
PA3BNT	7	20,033	164	67	299										
PA3EOP	"	8,883	92	11	36										
PA0TA	3.5	7,089	87	12	39										
PA0DIN	"	6,063	124	8	35										
Northern Ireland															
GI4BBV	A	350,208	562	71	217										
Norway															
LA7MFA	A	843,557	1326	95	252										
LA6YN	"	254,978	425	80	161										
LA9HFA	"	193,578	365	71	160										
LA1T	"	140,579	359	68	135										
(Opn. LA4BO)															
Portugal															
CT2NH	A	4,683,500	4081	146	405										
(Opn. N6ZZ)															
CT1DKG	28	126,656	871	23	60										
CT4DX	7	12,204	122	12	42										
CT1AO2	1.8	66,439	436	18	81										
Romania															
YO3NL	A	704,970	991	103	270										
YO7DO	"	244,256	489	76	194										
YO2DFA	"	165,765	417	67	148										
YO7BGA	"	63,688	220	37	148										
YO8WG	"	52,353	267	45	83										
YO2AW	"	12,254	26	25	55										
YO4BQV	"	12,840	94	24	36										
YO2BLP	"	11,781	85	19	44										
YO3BWK	"	8,448	65	16	50										
YO2BKK	"	7,134	83	19	59										
YO5AVN/3	"	2,440	22	19	21										
YO3RXC	"	1,073	15	8	9										
YO2BB	28	122,757	561	27	50										
YO2ZG	21	40,908	217	24	80										
YO8BOI	"	16,328	174	20	44										
YO3FBE	7	180,144	992	27	81										
YO8KOS	"	86,112	828	26	78										
YO8CDQ	"	52,584	354	21	53										
YO5KTB	"	26,649	197	17	46										
YO5CUU	"	18,981	159	15	42										
YO3RK	"	10,340	108	15	40										
YO4KLC	"	1,950	42	7	23										
YO4AAC	"	648	27	6	18										
YO4FJG	3.5	1,352	45	7	19										
YO6BTY	"	48	6	3	5										
YO8BPP	1.8	5,688	155	6	36										
Sardinia															
IS0OMH	A	155,819	633	45	94										
IS0YEV	"	40,131	198	33	58										
Scotland															
GM4CXM	21	244,577	973	36	95										
GM3CFS	"	52,870	336	21</td											

Wales		GW4BLE	A	2,788,668 2592 117 336	UA1AFM	"	221,490 665 59 155	UO2GN	21	65,326 360 25 54	UY5JC	"	39,438 164 43 83	YB6ZES	"	441,097 817 64 117
	(Opn. 63WVG)	GW3GXW	1.8	4,551 101 7 34	UA3AO	"	156,800 402 60 164	UQ2CR	"	28,850 223 19 46	UT4UW	"	39,114 134 48 75	YB0ATB	/3	(Opn. PA6LOU)
Yugoslavia		YU3BD	A	2,491,129 2058 139 388	UA3AH	"	156,615 572 48 149	UQ1GXY	"	24,417 220 19 42	R85IF	"	38,482 119 56 86	YB0ATB		387,072 614 76 140
	" 2,205,198 1752 156 426	YT3L		(Opn. YU3EA)	UA4NZ	"	151,998 373 158	UQ2EC	14	15,028 100 22 46	R85HT	"	36,630 145 46 47	YB0ATB		(Opn. PA6LOU)
	YU7BJ	"	958,665 1183 110 285	RA3VA	"	105,120 321 53 127	UQ2IP	7	40,255 273 22 51	U84LAT	"	36,344 138 44 74	YB2FEA	"	213,447 459 66 103	
	YU3QI	"	858,648 846 131 325	UA4ANZ	"	104,580 304 53 113	UQ2GNL	3.5	40,235 469 15 50	R85FN	"	34,870 125 43 67	YC6TSU	28	94,050 363 45 59	
	YT7KW	"	435,200 819 93 227	UA6HSN	"	90,147 286 56 143	UQ2GE	"	31,868 400 12 50	U85SDP	"	31,707 147 37 80	YC6UNC		21,050 199 20 30	
	YT7SF	"	370,077 680 83 198	UA4NBH	"	87,531 321 47 116	UQ2GFU	1.8	9,856 200 7 37	U860Z	"	28,220 160 32 51	YB7HB	21	28,644 124 31 46	
	YU1WR	"	321,966 606 199	RW3DC	"	79,296 254 62 106	Lithuania			U85MPD	"	17,112 108 30 63	YB3ASQ	7	87,192 411 26 46	
	YU7LS	"	129,355 320 65 140	UA3LAR	"	95,885 289 48 103	UQ2GP	"	17,355 166 13 52	U85RMD	"	15,664 118 27 61	YB7KD	"	5,520 63 17 23	
	YU3SB	"	48,620 303 22 46	RA4HW	"	94,168 395 42 116	UQ2GU	"	10,017 145 12 41	U86EL	"	23,426 93 41 65	Mariana Islands			
	YU1PJ	"	45,347 135 52 85	UA3RE	"	63,063 268 44 99	UQ2GV	"	4,747 60 12 35	U860Z	"	17,112 108 30 63				
	YT7WW	28	412,596 1049 38 119	UA3ICJ	"	58,842 177 58 104	UQ2GW	1.8	9,856 200 7 37	U85MPD	"	15,664 118 27 61				
	YT3W		395,354 1051 38 109	UA4AO	"	55,624 227 45 91	UP3BP	A	2,697,081 2208 152 391	U85EIT	"	14,440 92 29 66	KHB			
	(Opn. YU3EF)	YU2NW	"	393,120 1048 38 102	UA10FT	"	54,020 222 43 105	UP2SP	"	1,123,005 1273 112 331	U85SFB	"	5,390 34 23 32	/JE1CKA	A	3,581,912 3112 128 261
	YT20	"	392,490 1038 38 109	RV6AF	"	48,160 204 43 97	UP2SP	"	1,044,100 1313 109 285	U84RWVW	"	3,318 35 18 24	Marshall Islands			
	(Opn. YU2OB)	4N4C	"	311,190 944 36 102	UA6LFQ	"	40,504 192 34 88	UP3BU	"	784,824 1019 111 313	R85ICY	"	1,344 32 10 18	KX6DC	1.8	42,723 297 22 25
	YU3BU	"	271,054 797 38 95	UA3DGA	"	40,135 207 34 81	UP2BO	"	717,649 1167 95 258	U85VK	28	469,336 1484 36 100	(Opn. NZ8B)			
	YU3M	"	232,050 730 37 93	UA3RN	"	39,445 206 32 83	UP2BO	"	521,300 757 97 228	U85ZAL	"	253,400 811 35 105	New Zealand			
	YU3QU	"	99,408 343 34 80	UA6HPK	"	27,804 147 21 63	UP2BW	"	447,888 762 80 204	U82VA	"	253,368 781 36 100	ZL3GO	A	2,286,384 1716 149 307	
	YT6AA	21	688,889 1857 38 120	UA3UCD	"	23,875 167 40 85	UP2BF	"	6,494 268 42 104	U85BZ	"	59,800 267 31 73	ZL1AYO	28	455,464 552 108 181	
	YT3AA	"	580,808 1495 39 119	UA3VLO	"	23,230 128 36 79	UP2BLA	"	61,244 350 40 34	U85RZF	"	40,392 164 32 70	ZL1AYO	28	52,500 294 21 39	
	4N2E	"	501,552 1577 35 109	RA10AK	"	22,425 120 27 48	UP2BMA	"	85,544 440 47 131	U85V	"	3,300 26 10 9	ZL1BSG	21	58,504 283 24 47	
	YU1DW	"	331,680 1189 33 87	UA3OPA	"	15,810 104 30 55	UP2BM	"	67,080 374 34 96	U85EAZ	"	175,232 674 37 91	ZL2MM	"	6,372 165 20 16	
	4N2B	"	13,281 102 17 40	UA3XCT	"	15,130 72 33 52	UP2BR	"	6,576 91 16 32	U85VB	"	98,070 496 30 75	ZL1IH	3.5	5,226 51 17 22	
	(Opn. YT2IK)	YT3AW	"	496,987 1408 35 124	UA4OK	"	14,045 163 14 39	UP2BZ	"	395,459 747 82 209	U85RF	"	92,208 399 29 73	Philippines		
	YU3VQ	"	180,933 770 33 90	RA3QR	"	9,575 53 32 43	UP2BU	28	138,250 439 33 92	U85RZ	"	32,572 250 21 47	DU3AA	28	34,202 238 19 30	
	YU3TW	"	22,792 180 22 52	RA3WZ	"	8,268 101 17 36	UP2BV	"	82,806 333 30 81	U85T	"	35,198 140 20 49	DU3BA	21	37,418 408 25 28	
	YU4CYL	"	3,648 114 12 20	UA3TAG	"	8,175 69 22 34	UP2BW	"	16,660 100 24 44	U85INT	"	13,545 109 16 29	DU1KWT	14	9,639 122 13 14	
	YT8A	7	553,833 1733 37 112	UA6YHR	"	7,502 45 26 36	UP2BH	21	120,375 410 33 92	R85IV	"	57,009 354 25 68	K4SXT	/DU3	7 123,487 468 29 62	
	YT3MM	"	410,256 1543 35 109	UA3TC	"	3,672 40 14 25	UP2BM	"	70,215 353 26 67	U85R	"	53,530 223 29 77	Southern Cook Islands	ZK1TB	A 595,002 889 105 157	
	(Opn. YT0UA)	YU3JZ	"	109,150 473 30 88	UA4CN	"	2,025 32 12 15	UP2BT	"	47,104 236 28 64	U85V	"	34,204 212 18 50	Tonga Islands	A35KK	A 516,272 1100 72 92
	YU5FU	"	86,104 472 26 68	RA3QA	"	363 16 4 11	UP2BU	"	42,328 220 21 61	U85W	"	32,261 171 20 47	(Opn. SM7PKK)			
	YZ1Z	"	50,320 491 18 56	UA3DJY	28	110,660 417 30 80	UP2BV	"	82,806 333 30 81	U85X	"	25,716 239 31 61	Western Caroline Islands	KC5CS	A 4,906,470 4053 137 273	
	YU7FT	"	31,608 238 20 52	UA3LB	"	99,066 425 31 83	UP2BW	"	10,054 200 32 104	U85Y	"	14,361 270 29 64	(Opn. JE1JKL)			
	YU4E2C	"	28,224 448 15 48	UA6BPM	"	79,388 498 25 64	UP2BX	"	10,854 858 18 36	U85Z	"	12,825 123 16 29	Argentina	LU1EWL	A 409,696 512 85 151	
	4N1A	3.5	247,020 1170 26 89	RA6LE	"	16,720 131 18 42	UP2BY	"	10,854 858 18 36	U85Z	"	1,917 25 13 14	AY4F	28	431,664 1576 26 66	
	(Opn. YU1YY)	YT3AW	"	121,595 1464 19 64	UA3ABT	"	100,233 502 29 82	UP2BZ	"	10,854 858 18 36	U85Z	"	1,482 32 8 11	LU4AE		127,010 658 20 45
	(Opn. YT3AW)	YT3FO	"	118,940 755 21 74	RA4PBN	"	78,106 414 31 67	UP2CA	"	26,226 305 12 50	U85Z	"	1,482 32 8 11	LU1CX	21	216,535 583 34 93
	YU3OJ	"	105,340 733 20 72	UA3YAQ	"	59,787 320 29 62	UP2CB	"	20,191 227 15 46	U85Z	"	1,482 32 8 11	LU2FFV	"	47,871 204 25 56	
	YU5RU	"	92,316 649 18 66	UA4POC	"	49,610 350 23 59	UP2CD	"	16,758 236 13 44	U85Z	"	1,482 32 8 11	LU1DHI	"	14,041 97 13 36	
	YT2ER	"	59,080 565 16 56	UA4CPM	"	17,038 179 20 38	UP2CE	"	5,049 121 7 26	U85Z	"	1,482 32 8 11	LU6DLK	"	5,958 77 13 26	
	YT3FF	"	1,378 53 5 21	UA3ZFT	"	1,600 37 8 17	UP2CF	"	3,531 43 11 22	U85Z	"	1,482 32 8 11	LUBEIN	14	65,934 336 20 46	
	YU3MM	1.8	42,075 421 14 61	UA6LMW	14	170,624 818 35 89	UP2CL	"	2,158 80 5 21	U85Z	"	1,482 32 8 11	Aruba	P4#GO	A 6,569,485 4615 139 340	
				RW3AH	"	140,608 611 32 72	UP2CM	"	1,294,000 119 32 72	U85Z	"	1,482 32 8 11	(Op. K560)	P4#R	7 874,240 2290 33 95	
				RA3UC	"	72,128 340 32 80	UP2CN	A	1,260,430 1349 133 349	U85Z	"	1,482 32 8 11	(Op. K4UEE)			
				UA10BV	"	57,800 364 29 71	UP2CO	"	75,432 322 48 120	U85Z	"	1,482 32 8 11				
				UA6HJF	"	39,520 196 31 94	UP2CP	"	36,630 156 31 79	U85Z	"	1,482 32 8 11				
				UA3RLZ	"	38,429 254 23 60	UP2CQ	21	113,928 612 25 69	U85Z	"	1,482 32 8 11				
				UA1CE	"	35,195 270 23 61	UP2CR	"	47,040 281 24 59	U85Z	"	1,482 32 8 11				
				UA1DTR	"	4,545 71 31 61	UP2CS	"	29,524 370 12 49	U85Z	"	1,482 32 8 11				
				UA6E6D	3.5	52,920 561 16 54	UP2CT	"	887,372 1500 75 219	U85Z	"	1,482 32 8 11				
				UA6HJF	"	35,256 251 20 58	UP2CU	"	660,857 1145 74 263	U85Z	"	1,482 32 8 11				
				UA3W3D	"	28,798 217 19 58	UP2CV	"	587,608 857 102 242	U85Z	"	1,482 32 8 11				
				UA6HFK	"	5,510 76 13 25	UP2CW	"	587,608 857 102 242	U85Z	"	1,482 32 8 11				
				UA3TDR	"	4,545 71 12 33	UP2CX	"	174,382 400 67 180	U85Z	"	1,482 32 8 11				
				UA6E6D	3.5	52,920 561 16 54	UP2CY	"	160,378 576 41 137	U85Z	"	1,482 32 8 11				
				UA6HPW	"	51,600 476 15 60	UP2CZ	"	587,608 857 102 242	U85Z	"	1,482 32 8 11				
				UA6WAC	"	44,118 331 22 44	UP2D	"	401,132 805 76 213	U85Z	"	1,482 32 8 11				
				UA3XAW	"	29,748 325 16 51	UP2D	"	336,667 682 80 213	U85Z	"	1,482 32 8 11				
				RA3PP	"	28,500 328 12 48	UP2D	"	288,526 723 69 190	U85Z	"	1,482 32 8 11				
				UA1PAO	"	27,930 277 13 44	UP2D	"	286,900 461 96 206	U85Z	"	1,482 32 8 11				
				UA6BJQ	"	26,412 337 11 51	UP2D	"	281,511 613 74 205	U85Z	"	1,482 32 8 11				
				RA3PPP	"	10,152 173 10 37	UP2D	"	256,632 448 83 213	U85Z	"	1,482 32 8 11				
				UA3YBJ	"	6,715 111 10 36	UP2D	"	184,295 489 60 145	U85Z	"	1,482 32 8 11				
				RA1NA	"	6,262 64 9 22										

Peru		WX6M	20,909 86 44 59	EUROPE	GW8GT	Wales	SOUTH AMERICA
OA4ZV A 1,414,446 1529 104 215		W6SZN	17,672 66 39 55	Belgium	3,044,352 3172 135 377		
OA4BR " 42,297 107 14 11		K07N	3,405,324 2386 156 342	DONGAH	1,653,624 2220 103 283	Yugoslavia	Curacao
Surinam		W7TJ	1,557,936 1649 120 229	L29A	4,335,267 3277 170 483	PJ2X	8,948,660 5257 152 422
PZ/N3JT A 6,013,965 4833 120 301		W7DG	630,294 886 100 158	Bulgaria	2,928,168 2439 146 390		MULTI-OPERATOR
Trinidad & Tobago		WA7G	391,210 480 111 179	LZ1KVZ	2,071,380 2002 145 425	MULTI-TRANSMITTER	
9Y4VU 21,100,607 2465 34 103		W7ZR	273,735 416 95 142	LZ1KSQ	2,368,586 2103 134 372	NORTH AMERICA	
Uruguay		W7ZI	109,416 200 76 118	4N1W	1,787,226 2068 102 247	United States	
CW8B 21,1,496,556 3112 40 122		KA7CSE	34,254 173 43 56	YT3T	2,707,621 558 72 185	K1ST	7,988,630 3790 179 547
(Opn. CX8BH)		N7OT	3,496 30 19 19	YU3AI	1,113,435 1559 88 239	N1C0	7,623,036 3716 176 532
CX8CG 14 290,577 986 33 68		K8AZ	5,063,999 2491 177 521	4N2D	1,136,037 1672 96 233	KY1H	7,029,450 3639 169 506
K9UWA		W8PHI	897,600 831 113 261	YT2D	2,094,400 2585 125 315	K1RX	2,374,655 1665 142 352
CX8CG 14 290,577 986 33 68		W8FN	200,353 263 91 190	4N4D	207,776 901 45 106	KN1F	1,069,964 896 120 292
K9UWA		W89JKI	615,092 593 114 253	LZ1KRC	649,295 1077 103 252	KAIKPH	1,065,933 911 115 292
KK9V		555,895 519 101 206	LZ1KPG	178,135 839 32 83	N2RM	5,493,000 3170 159 441	
4M7A 28 1,145,375 3073 36 89		555,264 1023 36 116	LZ1KVF	110,047 283 63 136	NF2L	3,589,272 2130 159 417	
(Opn. YV7QP)		KK8U	1,488,278 1307 134 279	UR1RWX	50,224 140 54 118	K2O	3,470,635 2005 151 444
YV5HVS " 68,880 421 15 40		W8RLX	1,368,425 1161 140 291	4,365,016 3339 175 509	K2TD	1,144,896 977 111 292	
YV4ABR 21 267,256 1027 26 62		K8NN/0	549,814 611 108 206	Byelo Russia	12,804,154 5387 194 624		
YX5A 7 1,000,578 2506 33 101		W8CP	297,910 351 114 196	UC1AWB	2,474,450 2515 148 402	W3LPL	6,137,600 3068 174 511
(Opn. YV5ANT)		KL7RA	3,465,605 3401 132 275	UC1AWC	972,868 1509 100 253	W3GM	7,853,620 3670 187 553
YV1OB 1.8 34,959 278 14 29		Canada	1,318,900 2168 88 187	UC1CWB	486,024 1025 84 224	K4PDJ	9,796,680 4353 196 576
MULTI-OPERATOR		VE2UMS	199,356 601 58 90	UC1CWE	3,581 88 4 17	NR5M	6,353,593 3498 182 459
SINGLE TRANSMITTER		VE3SPS	205,254 473 61 120	Alaska	1,276,992 1436 113 319	N6ND	1,684,192 1313 145 303
NORTH AMERICA		VE6AO	391,428 1053 64 102	OK1KQJ	964,781 1210 116 287	W8BI	2,737,408 1724 151 417
United States		VE7ZZZ	3,295,416 2802 155 337	OK1KSL	643,680 971 97 263	W8BK	1,791,504 1178 153 375
K1AR 7,370,285 3324 185 576		Mexico	548,098 788 103 255	K1OKF	548,098 788 103 255	WBAIH	
K1DG 3,499,624 1956 162 455		VP2MW	199,420,040 4909 140 325	OK1KLV	348,920 751 75 169	/9	
K1IU 1,525,510 1025 148 370		Montserrat	248,477 571 80 161	OK1KZD	240,329 668 61 150	K4VX/#	4,911,218 2974 172 439
AK1A 1,397,045 1114 111 317		VP2MW	9,041,590 5968 151 426	OK3KGD	240,329 668 61 150	7,785,450 3690 187 543	
K1IR 1,304,384 1003 125 333		CT3FN	2,586,418 2770 88 225	OK2KUB	151,200 307 71 181	N0XA	2,444,961 1642 157 380
AK1L 812,000 807 99 251		Madieras Islands	132,864 341 55 118	OK1ORA	132,864 341 55 118	Alaska	
K1TR 614,505 621 112 243		2,586,418 2770 88 225	OK3KUN	37,534 196 33 65	UR1RWX	12,804,154 5387 194 624	
KA1CB 503,923 473 111 262		2,586,418 2770 88 225	OK1OKF	32,200 196 36 64	European Russia		
W1XS 427,200 429 106 250		5,420,040 4909 140 325	OK1KLV	30,622 188 26 35	UZ3AXX	2,877,000 3107 151 390	
NC1M 415,496 482 88 223		5,420,040 4909 140 325	OK1OSB/P	25,272,151 24 60	UZ1AWT	2,668,440 2214 151 390	
N1TZ 134,216 216 71 151		XE8DX	24,948 134 38 61	DK0MM	2,325,887 1865 153 424	UZ4WB	1,644,920 1769 133 339
KA1CLV 73,748 146 56 123		VP2MW	13,184 104 23 31	OK2KDS	1,362,618 1940 111 327	UZ1AWO	1,362,618 1940 111 327
KT10 22,550 82 41 69		BY1PK	1,950 42 14 25	OK1KHK	1,078,924 1346 120 324	RZ6ZYQ	1,078,924 1346 120 324
W1JR 14,976 59 41 55		BY4SZ	1,950 42 14 25	OK3KYH	961,532 1235 126 325	UZ3DXC	961,532 1235 126 325
K5NA/2 5,013,162 2495 175 518		BY1PK	1,924,790 2687 100 210	DK0PB/P	25,272,151 24 60	UZ1AWQ	953,064 2322 110 317
N2BA 4 328,164 2394 163 463		BY4SZ	438,102 1104 81 102	DK0BW	24,948 134 38 61	UZ3AYT	655,802 1087 84 253
K2SP 1,905,080 1364 135 350		ZC4ZR	1,345,274 1494 86 227	OK1HMK	1,049,852 1546 92 242	UZ4AXN	504,896 874 86 257
W82P 929,040 590 155 404		ATON	1,208,546 1501 101 210	OK3AT	38,460 196 41 89	UZ3XWB	442,233 714 91 206
W2UI 542,724 530 93 231		VU2HT	441,512 782 88 153	DK0ER	1,011,752 1299 91 265	UZ6HXW	278,752 1124 75 173
N2EA 45,628 140 43 79		VU2TEC	165,912 473 43 81	DL0LR	870,495 1114 108 285	UZ6HWA	145,024 725 71 177
N3RS 5,648,298 1765 157 537		Japan	156,342 345 68 145	DK0TZ	156,342 345 68 145	UZ7FWN	53,632 354 30 98
K3WW 3,193,697 1798 164 447		JE2YRD	1,924,790 2687 100 210	OH1AF	4,082,238 2976 165 504	UZ7FWA	22,336 155 21 43
W3GG 2,591,372 1690 149 383		JE2YHS	790,050 1209 91 138	OH2AO	2,313,290 2237 132 358	UZ1NWF	560,224 1308 71 173
K3PA 2,546,171 1606 147 404		JA3YBF	2,468,626 2039 140 289	OH2BAH	2,256,390 2218 141 408	Karelo-Finnish SSR	
KB3MM 1,520,694 1091 131 355		JA3YKC	2,362,262 1920 147 287	OH6AP	1,238,720 1508 113 282	UZ1NWF	
W3MA 1,502,961 1107 132 339		JA4YJA	1,535,694 1514 116 245	F5IN	5,673,122 4090 167 470	Karelo-Finnish SSR	
N3BNA 1,021,380 835 124 311		JA4YAV	447,640 534 95 165	FF6KPO	889,840 1835 66 179	UZ1NWF	
K23H 1,005,784 718 144 350		JA4YJC	2,036,953 1953 129 244	F6ENV	18,291 101 22 45	UZ1NWF	
N3RR 869,415 705 139 308		JA4YJA	1,345,274 1494 86 227	OH3AT	38,460 196 41 89	UZ1NWF	
K3UEI 858,912 810 109 295		JA4YJC	1,535,694 1514 116 245	OH4PA	7,775,904 5030 187 570	UZ1NWF	
NM3Q 854,904 835 106 252		JE2YRD	447,640 534 95 165	OH5A	7,775,904 5030 187 570	UZ1NWF	
W3UJ 822,906 775 108 270		JE2YHS	504,961 835 124 311	OH1AF	4,082,238 2976 165 504	UZ1NWF	
W3NX 760,158 701 116 262		JA3YBF	2,468,626 2039 140 289	OH2AO	2,313,290 2237 132 358	UZ1NWF	
K3YU 751,320 732 106 254		JA3YKC	2,362,262 1920 147 287	OH2BAH	2,256,390 2218 141 408	UZ1NWF	
NA3K 600,402 588 107 256		JA4YJA	1,535,694 1514 116 245	OH6AP	1,238,720 1508 113 282	UZ1NWF	
A13E 521,284 500 104 257		JA4YAV	447,640 534 95 165	OH8CK	1,232,777 2216 132 365	UZ1NWF	
W3GN 513,360 493 124 244		JA4YJC	2,036,953 1953 129 244	JA0KLE	1,049,852 1546 92 242	UZ1NWF	
W3KV 497,710 493 106 262		JA4YJC	3,241,051 2181 170 357	HA9KQ	5,085,829 3718 182 313	UZ1NWF	
KS3F 497,274 254 123 279		JA4YBY	3,187,698 1763 164 334	HA9KNG	3,925,628 3324 163 468	UZ1NWF	
KB3MH 475,160 625 83 197		JH8ZCD	17,582 103 28 31	HA9KRC	3,545,076 2668 170 498	UZ1NWF	
K3ND 360,360 354 128 248		JA4YJC	1,208,546 1501 101 210	HA1KRR	2,279,506 2575 122 324	UZ1NWF	
N13P 242,784 308 91 197		JA4YJC	441,512 782 88 153	HA8CK	1,777,227 1961 132 365	UZ1NWF	
N3HW 211,792 342 63 154		JA4YJC	160,360 400 48 104	HA8KVK	1,598,400 1882 188 219	UZ1NWF	
N3GB 133,977 219 71 142		JA4YJC	160,360 400 48 104	HA6KVB	1,029,889 1510 99 242	UZ1NWF	
K3RL 125,442 212 73 134		JA4YJC	160,360 400 48 104	HA6KNG	872,400 1408 88 212	UZ1NWF	
WA3LJZ 120,170 215 65 132		HS8A	403,788 1020 62 169	HA3KHC	403,788 1020 62 169	UZ1NWF	
N4WW 5,277,350 2812 168 482		3W8CW	32,150 341 43 92	HA6KNX	329,061 577 78 173	UZ1NWF	
WA4CTC 1,851,568 1312 139 357		YI04IND	1,058 45 6 17	HA5KGT/7	23,150 341 43 92	UZ1NWF	
W3ZF/4 1,783,520 1092 159 409		I2VXJ	3,886,300 3048 147 403	The Netherlands		UZ1NWF	
K4P1 1,649,700 1036 162 402		YI04IND	1,297,800 2030 96 254	The Netherlands		UZ1NWF	
N4VZ 1,515,000 1048 132 368		I2VXJ	669,080 1098 92 252	The Netherlands		UZ1NWF	
K4MF 1,192,480 885 134 330		SP3DEM	4,943,857 3245 179 530	The Netherlands		UZ1NWF	
K0HLB/4 877,680 728 115 299		SP5PBE	1,794,043 2353 112 285	The Netherlands		UZ1NWF	
WA4LVM 463,335 464 107 238		SP5KVV	1,388,244 1611 123 306	The Netherlands		UZ1NWF	
AA4DO 186,534 273 94 164		SP5PZPZ	578,798 1067 91 203	The Netherlands		UZ1NWF	
W54G 121,636 237 71 117		SP9PDF	264,000 460 86 530	The Netherlands		UZ1NWF	
AK0M/4 28,808 95 38 66		SP5PWK	61,576 665 79 184	The Netherlands		UZ1NWF	

