

Ralph, NQ4I, is shown here at 8R1Z. Ralph finished third worldwide in the all band category this year in a very close race.

Here's the antenna farm at JE2YRD, the #1 JA2 Multi-Single team this year.

# 1985 CQ WORLD-WIDE DX CONTEST PHONE RESULTS

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

Al is not quite sure what is wrong. It almost seems like backlash in his receiver, though. Every time he tunes across 7179, the needle on his S meter pins and stays there no matter which way he turns the knob. Not only that, it all sounds the same 5 kHz either side. Why does the SU station on 7070 say he's listening there anyway? All that's there is that AM station. "... Listening seven one seven *nize*, seven one seven *nize*, QRZ." In any event, Al just can't find that W3 station the SU answered in that mess. If he could *just* find that frequency, he'd get him for sure. This is no time for backlash, anyway. It's time to concentrate.

Actually, things haven't gone well for Al all night. It's 4 hours into the contest, and there are only 10 QSOs in the log. That new 3-element 40 looked so elegant piercing the sky at 60 feet. Al felt sure it would do the trick. Why, hadn't he worked everything on 40 phone the last several weeks? Everything was set, too. But the trouble began at 0000Z, right off the bat. First, there was that HZ, then the 4S7, the UF6, and that darned ST2, all with good signals. Al had called each of them for a half hour, thinking for sure they would hear his big signal above 7150 right through all the QRM and QRN. If *only* they would listen up. Al had yelled "listen up" a few times down on the low end; sneaking out of the band was OK for some-

thing like that anyway, you know. How else were those turkeys going to know how well they were being heard in the States? Al just couldn't understand that rude remark the K8 made on the repeater about the FCC. "Who needs it?" he thought. "I tried to do them all a favor, and this is the thanks I get."

But there's the SU again; "... Listening seven one seven *five*." What was that, 7175? "Not 20 minutes shot listening in the wrong spot, please no," thinks our hero. But the dial goes down to 7175 in a zip. Good grief! There's the W1 the SU just answered. Quick as a flash, our hero zeroes in on the W1. Now he's got the SU for sure.

Some time later Al is fit to be tied. Maybe he'd better listen up on 7175 again just to be sure. "... Thanks for that SU multiplier, OM. You're 5905, 5905 from N2 ump-de-ump," and the S meter falls gracefully to S3. What a break; a clear shot at the SU! But even as our hero is thinking of his "clear shot," the receiver meter takes an incredible jump. "ssSSSWISHHHHHH garble garble." What a pile-up! Our buddy Al is determined to prevail now. He screams into the microphone the melodious sounds of his call—over and over again. Indeed, Al has entered into a "contest stupor." Red-faced, jaw-snapping, hoarse and single-minded, our hero showers the mike with an incredible level of decibels of sound.

Then, an imposing-looking female figure hovers over Al and taps him on the shoulder. Al glances up and motions her to "bug off." His gestures are met with more assertive tapping.

As he looks up again he perceives that distinctly hostile scowl, the one he doesn't dare ignore. "Yes, dear," he says impatiently. "Al," she says, "the neighbor is on the phone for the fifth time tonight about TV! He wants to watch the Ed Sullivan reruns on Channel 2 and ..."

Cheer up, Al, there's always next year, especially for the 40 meter crossband effort. For all the non-Als out there, cheer up, too. Think how much better off you are than our friend Al. You actually managed to get through the contest in one piece and submit a score. Now the time has come to report the results, big winners and little winners alike.

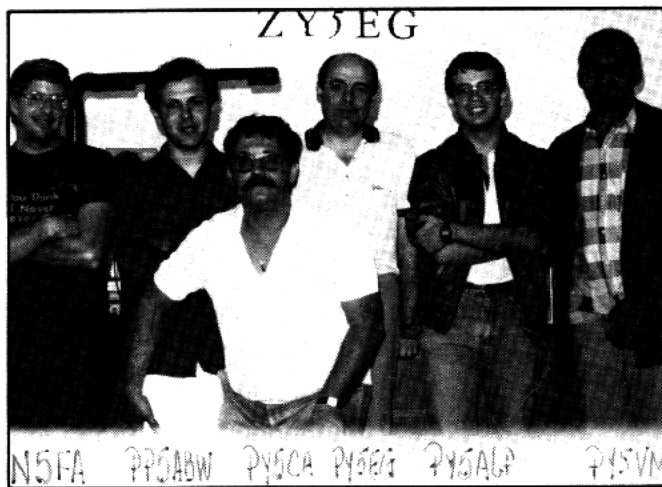
## The All Band Results

In one of the most hotly contested races in the history of the CQ WW, three South American stations battled it out for the top Single Operator, All Band spot, with only 350,000 points separating them out of 10 million. However, Rich Smith, N6KT, pulled it out for the third consecutive year with a fantastic 9.6 million, followed by Bill, N1GL, at P43A (9.4 M) and Ralph, NQ4I, at 8R1Z (9.3 M). Congratulations to all three gents on sunspot high-style scores in the middle of the sunspot low.

John Dorr managed to break the top 10 worldwide from the U.S.A., while shattering the old record of 3.7 M that Al6V set in 1983 with a masterful 4.0 M. John thus recaptures the top U.S. spot he once held. He was followed by K1DG and W3BGN, who were only 27 K apart from each other, but almost 1 M below

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Here's the crew at ZY5EG, third in the World in Multi-Single.



One of the truly faithful Brazilian single operators—PP2ZDD.

John. The difference was John's 20 and 15 meter QSO count, both of which ran over 1000 QSOs per band. Incidentally, all 10 top W scores were located in the northeast U.S.A. (W1, W2, W3), with Midwest and West Coast scores way down.

The Multi-Single category continued to flourish with more activity than ever. This year P44B amassed an impressive 11.3 M points to take the World high, followed by I5NPH at 9.7 M. Randy's KH6XX team set a new Oceania record at 7.6 M. The stateside honors go once again to KX4S with a fine 4.6 M effort, the new U.S.A. record. They were followed by Austin Regal's N4WW team at 3.8 M.

The "big station" category winner was the 18-member HC8X team with an impressive 22 M score. They were followed by two seasoned North American teams at VP2VCW and VP9AD (19.6 and 18.0 M, respectively). N2AA took the U.S.A. honors with 10.4 M. Their 733 multipliers were tops in the World, by the way. W3LPL was second at 8.1 M and only 9 multipliers off the N2AA pace.

Our QRP section winner was Angel, WP4G, with a fine 342 K, followed by K3WS at 315 K and K7RI with 271 K. Those are all tough QSOs at this time of the sunspot cycle. Congratulations to all the QRPers for their patience and perseverance.

### Single Band Categories

For the low band enthusiasts 1985 was a banner year, as might have been expected. Thirteen new world, U.S.A., or continental single band records were set, mostly on 160, 80, and 40 meters. In fact, there were no records set this year on 15 or 10 meters, yet conditions were a real treat on the high bands compared to the normal day-to-day activity heard this year, a real boon for the contest crowd.

On 160 it was Wally, LZ2CJ, who took the World high, finishing just shy of 90 K. He was followed by VE3NNR with a distant 47 K, but that was good enough to set a new North American record, one held for the last 10 years by Herb, KV4FZ. KH6CC was third with a fine 45 K, also a new Oceania mark. Indeed, the old mark of 5 K was just demolished. AA1K/3 took the top U.S.A. honors with 24 K, nosing out K1ZM at 20.5 K.

Eighty meters was alive with activity from well before sunset to well after sunrise. These fine conditions were used to advantage by Yuri, VE3BMV, who set new World and North American records with 383 K. Yuri was fol-

lowed by WB7RFA/V2 (339 K), T32AF's third-place finish was enough for a new Oceania record, and 4N3E's sixth-place score of 162 K set the new European mark. Bob, W6RJ, captured the U.S. high for the second year running with a fine 135 K.

Interspersed with all the usual garbage of teletype, jammers, AM broadcast, and the Woodpecker, 40 meter phone offered its yearly DX super challenge. VP2ET managed to pull out of it with a new World and North American record-setting pace of 850 K. He was followed closely by TI2CC at 823 K. Meanwhile, JA5BJC's 311 K set a new Asian record. Perennial multi-multi station W7RM was given an all band breather this year, as W7WA manned the 40 meter single band phone position. His resulting 243 K set an all-time U.S.A. record, beating the old 218 K standard set by N7DD just 2 years ago. With 31 zones, 71 countries, and 823 QSOs, the real possibilities of 40 meter phone shine forth for all the aspiring W crowd. Imagine, 800+ contacts on 40 phone crossband!

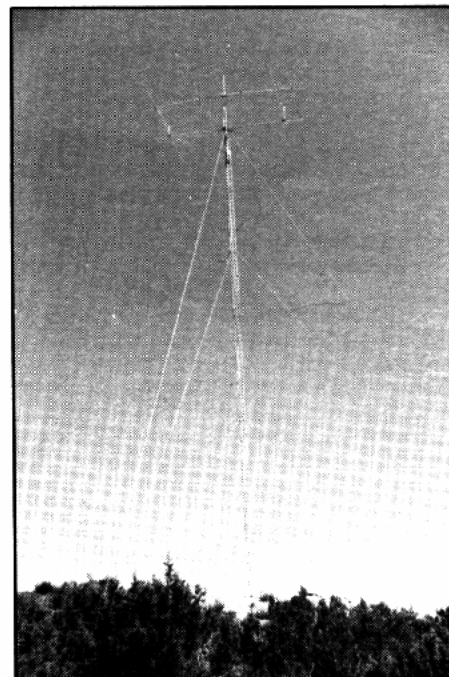
The premier DX band, 20 meters, offered almost 24-hour openings and topped the single band activity for this year. YZ9A's 1.29 M set a new European standard on 20, narrowly edging out G3FXB, who scored 1.22 M. However, it was K1OX and his third place worldwide that surprised everyone. Ted managed to post the first and only 7-figure score from the U.S.A. single band with an incredible 1.13 M. Congratulations, Ted, on breaking that barrier for the first time on any band or mode.

Carlos, TI2CF, took the World top spot on 15 meters with 1.34 M, the highest single band score in the 1985 contest. He was followed by KG6DX, LU6FDR, and CE6EZ, all of whom broke 1 M. K2EK ended as the U.S. master with 851 K, hotly pursued by Jeff, N8II. Many of the W's from east to west commented that Saturday's European opening to the States was the finest they had ever heard (see QRM), a surprising development for this time in the sunspot cycle.

The 10 meter band was a shadow of its peak form from previous years, but compared to the norm this year, it was a crackerjack. Latin America absolutely dominated the World on 10 with all 6 of the top scores in the World. TI2KD won the overall category with 549 K, just a tad above rivals LU1E and CX4HS. In fact, all the other top scores were in South America. KG1E ran away with the U.S. high with 71 K in 69 countries. And yes, both Japan



That big signal on 80 from Antigua this year was manned by none other than WB7RFA/V2.



Lots of planning and effort went into the new antennas at Jim Stevenson's, KM6B. Although first in 6-land, Jim finished down in the Single Operator category as the East Coast swept the top 10.

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20M5365 elem. 20 Mtr.	<b>\$635.00</b>
20M6466 elem. 20 Mtr.	<b>\$1075.00</b>
15M5325 elem. 15 Mtr.	<b>\$510.00</b>
15M8458 elem. 15 Mtr.	<b>\$1010.00</b>
10M5235 elem. 10 Mtr.	<b>\$340.00</b>
10M6366 elem. 10 Mtr.	<b>\$705.00</b>
2MVS814, 2 Mtr. phased	<b>\$269.00</b>

and Europe were worked by Stateside stations on 10 at the bottom of the cycle.

**Some Special News**

This year marked the first ever serious participation in the contest from mainland China. Kan, JA1BK, assisted the Chinese in planning and organizing a contest effort, resulting in the operation of special call BT1BK for the duration of the contest. We are honored and delighted to see the activity. Not only that, four other BY stations were worked on SSB, and even more activity was heard on CW, as we will report next month. This was a welcome and long overdue addition to the contest sport. Congratulations to the participants on a fine first-time effort, and we hope to see more next year.

On an unrelated matter, we are pleased to announce that John Dorr, K1AR, has agreed to handle all inquiries about certificate problems occurring over the last few years. John will also work on early forwarding of certificates for the 1985 contest. Our goal is to get the certificates in the mail about the time the results come out in print. Please direct any questions on certificates to John at his home QTH, 2 Baldwin St., Windham, NH 03087.

**A Matter of Ethics**

Every year the CQ Contest organization receives a dozen or so inquiries or complaints about contest operating practices. Some folks think some types of practices are unethical and want us to pass a rule prohibiting them. Others want us to pass a rule that clarifies what we do or do not allow. Some interpret an existing rule in a particular way and want us to act in a decisive manner on a complaint they have. Our rules are already fairly complicated, and we are reluctant to keep adding to them. Further, rules are sometimes hard to enforce when the complaints are singular and the complainant possesses little if any hard evidence. Yet the collage of correspondence we have gotten on these types of issues deserves a response. We will try to present our case here.

Some of the issues identified on operating ethics are as follows: use of nets or lists during a contest, use of a repeater alert system for the single operator category, use of telephones to line up contacts either before or during the contest, out-of-band operation or operating in a section of the band not allowed by your license, not having a proper license, asking people to "listen up," excess power, accepting help from others with maintenance problems during the contest, logging help, guest operators, hogging the DX window on 160 or 80, trying to "steal" someone's run frequency, asking someone to pass on a DX station when they are running on a frequency, passing information over the air on openings or stations active elsewhere on the band or on another band, rubber clocking in Multi-Single, operating two transmitters simultaneously in Multi-Single, not logging reports or other data, logging all reports as 59 or 599, using a Multi-Operator station for multiple single band entries, sending two entries in for the same station in different categories, etc. Let's go on record as saying that the good operators know where to draw the line. They know what is ethical and what isn't. We don't have a rule that covers all of these cases, and we don't have a way to enforce rules to the letter of the law without a lot of information to back up a complaint. We depend on your honesty to keep the contest clean.

On the other hand, perhaps it wouldn't hurt

to be more specific about some of these ethical areas. Certainly anything that is a direct violation of the license, rules, or law is unethical. That means excess power, operating out of the band (even for one contact), operating in the Extra class segment with a General or Advanced ticket, operating without a bona fide license, rubber clocking, using a spotting repeater consistently and claiming single operator status, not logging the report actually sent or received, using two transmitters simultaneously in Multi-Single. These things are all unethical. We may not be able to prove them. We may not even suspect they were done. But they are unethical and are a form of cheating.

Other areas—such as operating in lists or nets, accepting any kind of help during the contest, using telephones to line up contacts during the contest, hogging the 80 meter JA window, using the 160 meter DX window, etc.—are also unethical when done by intent, or to an excess degree. What does that mean? Well, if you operated for an hour on 80 meter phone and basically ran a net operation during the contest the whole while, that's unethical. If it happened once or twice that someone wanted to sneak in on your run frequency and work something, that's another matter. Somehow you should be able to tell where to draw the line.

Incidentally, it would be just as unethical to sit in the middle of the 5 kHz JA window on 80 meters with a big signal all night long and run JA's for 6 hours running, thereby making it nearly impossible for anyone else to work the JAs. Yet there is absolutely nothing in the rules to cover that case, nor can there be. It's just a matter of common sense.

Enforcing ethical conduct is much more difficult. We cannot act on hearsay or isolated complaints. We also can't legislate hard and fixed penalties. Yet we sometimes can perceive that something is wrong. Often our approach is to be ready to respond to that suspicion the next time. That's really all we can do. So please, we ask all of you to watch your own act. Deep down, you already know what is unethical and what isn't. Even if an unethical effort is rewarded (like the guy who uses the 160 meter window all contest long and then finishes high), we would hope that the vast majority of the contesters would respect the spirit and intent of the rules. The windows are there for the benefit of all of us, not for a select few. General respect for the intent of the rules and gentlemen's agreements are what keep our hobby from degenerating to the citizen band mess.

**Parting Comments**

We would like to welcome John Kiesel, KE7V, to the CQ DX Contest Committee. John joined us this year as a replacement for Terry Baxter, N6CW, who faithfully served us for a good many years. Our thanks to Terry for his dedication and help. Of course, we shouldn't forget the other members of our committee—John Battin, K9DX; Rick Craig, N6ND; Dave Donnelly, K2SS; John Dorr, K1AR; Ed Moody, N3ED; Fred Morris, AD6C; Jan Perkins, N6AW; Glenn Rattmann, K6NA; Jim Sullivan, W7EJ; Gene Walsh, N2AA; John Yodis, K2VV; and Doug Zwiebel, KR2Q. These folks spend weeks on end pouring over all the logs, running checks, duping logs, and tabulating all the results. We are indeed indebted to them.

And now, the time has come to prepare for the 1986 CQ WW Phone Contest. Our friend AI is all set again. Best of luck to everyone.

73, Larry, N6AR, and Bob, K3EST



## 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
PJ2FR	117/10/19	614/20/67	1206/25/88	1265/22/77	1926/27/83	1204/20/59
PA3A	46/11/22	501/20/66	768/23/71	1372/34/88	2567/33/101	574/19/62
8R1Z	161/9/22	284/15/38	747/23/76	1312/32/100	2050/28/96	1226/21/83
EA9IE	2/2/2	235/19/57	458/26/84	1628/35/98	1633/30/105	100/20/57
J87DX	31/5/13	304/16/57	753/27/90	1195/29/94	1339/29/97	997/20/69
Y24JK	—	484/17/66	353/21/79	1953/31/90	1670/32/98	194/17/39
6Y3M	113/10/25	689/19/52	1002/27/85	1518/28/84	1500/25/71	194/17/39
OH1RY/C56	5/3/3	362/16/24	512/20/58	637/22/70	1294/22/81	803/23/56
CE3FIP	6/3/5	192/16/24	238/21/40	1056/30/97	990/25/74	787/21/68
K1AR	27/8/19	168/24/80	97/22/67	1073/34/116	1007/28/109	98/13/36

### WORLD TOP MULTI-OPERATOR SINGLE TRANSMITTER

P44B	61/11/25	532/16/59	1158/27/88	2046/30/108	2281/26/86	807/22/63
ISNPH	37/8/30	612/26/87	700/30/106	2171/39/126	1678/34/101	102/23/76
ZY5EG	10/10/9	28/18/27	622/30/83	1192/33/121	2679/31/122	785/24/70
KY6EX	126/11/15	233/22/31	1649/31/67	838/34/90	2545/33/68	266/18/37
KP4BZ	134/9/26	950/19/68	260/20/73	1827/27/96	2259/28/108	116/17/53
YZ1EXY	42/8/36	400/19/71	434/23/88	1739/38/128	1489/37/112	187/25/71

### WORLD TOP MULTI-OPERATOR MULTI-TRANSMITTER

HC8X	132/12/21	871/20/59	1989/26/93	2610/35/135	4213/35/141	1388/22/78
VP2VCW	672/13/36	1464/21/87	1718/28/100	3734/36/118	3601/31/99	953/20/76
VP9AD	680/10/28	1583/21/75	1682/28/93	3652/37/127	3259/32/124	450/20/65
VP2MW	733/14/33	1257/23/79	2296/27/100	3129/29/109	3086/25/90	1072/15/45
N2AA	182/16/52	666/27/96	445/31/106	2026/36/138	1670/28/135	182/16/52
IC3MAU	192/9/40	576/18/60	1325/31/97	2205/36/122	1756/35/117	450/22/64

### USA TOP SINGLE OPERATOR—ALL BAND

Station	160	80	40	20	15	10
K1AR	27/8/19	168/24/80	97/22/67	1073/34/116	1007/28/109	98/13/36
K1DG	42/12/29	151/20/69	124/24/68	811/29/104	743/24/100	76/19/41
W3BGN	58/15/40	150/17/62	87/22/51	999/32/102	663/25/89	77/14/36
W3GRF	23/7/15	138/19/69	135/25/72	626/35/108	773/28/107	77/14/36
K3ZO	25/9/17	290/24/75	95/22/49	1061/27/91	362/28/94	52/15/37
N2LT	20/8/11	107/18/60	93/23/61	744/32/92	776/25/101	49/14/30
W2RQ	21/7/12	161/21/71	95/22/53	933/30/96	444/25/99	48/13/34
N2FB/3	26/11/16	145/20/66	81/22/48	765/24/88	689/27/92	46/15/28
KE2C	20/8/12	108/21/61	64/21/46	487/34/105	694/29/113	113/16/55
AKIA	6/4/4	81/17/49	58/21/45	1089/33/100	665/22/75	18/8/13

### USA TOP MULTI-OPERATOR SINGLE TRANSMITTER

KX4S	34/14/30	208/24/30	222/30/101	1167/34/134	769/31/118	41/15/40
N4WW	41/14/37	224/26/83	162/26/80	855/35/111	852/32/113	74/19/60
K3TUP	27/14/22	186/24/80	116/29/82	934/35/112	893/27/116	48/16/47
K4VX/Ø	28/13/23	110/23/66	195/30/84	829/32/111	937/31/127	49/16/47
KS9K	26/11/21	123/24/75	153/28/89	958/34/110	718/29/114	30/12/30
W8UA	21/9/16	129/24/75	139/28/81	808/37/115	826/30/118	76/14/44

### USA TOP MULTI-OPERATOR MULTI-TRANSMITTER

N2AA	182/16/52	666/27/96	445/31/106	2026/36/138	1670/28/135	182/16/52
W3LPL	105/9/41	469/26/92	359/30/102	1562/36/134	1282/30/135	200/19/60
N5AU	105/20/44	278/26/76	356/30/100	1490/36/141	1348/33/130	215/20/64
NR5M	153/12/26	255/23/68	247/31/82	1222/37/130	1249/33/127	268/21/61
AD8P	51/30/47	280/25/81	217/29/82	1289/33/126	946/28/118	142/16/47
N4RJ	80/17/37	358/25/87	276/31/96	804/35/124	1021/33/133	149/18/52

## DX QRM

Propagation was just as poor as it was last year, but I enjoyed working the contest very much. . . LU1E (Opr. LU3AJW). How does one handle a pileup when the family cat sits on the dupe sheet? . . . PP2ZDD. Last few hours the throat gave out. . . CX8BBH. Was a pleasure having good conditions once again. . . AL7CQ. No JA runs, short stateside runs. . . KL7RA. I never thought I could make 2000 contacts with 100 watts! . . . DF9ZPVP9. Power went out Saturday 1330Z, came back on at 1730Z. Had a lot of catching up to do. . . PJ2FR. Lots of competition this year within North America. . . J87DX. I hope I don't get beat this time. . . VP2ET. We had to make a new dipole in a short time with bad weather conditions. . . TA1C. I need more power and better conditions. . . JA7YFB. The 14 MHz Yagi was put together the first day in the dark. . . JA3YCT. Wish we could move Bermuda 1000 miles further south for the contest. . . VP9AD. If 10 meters had been open, we would have thought we were riding a sunspot peak. . . VE7ZZZ. Working so many Europeans and Africans on the low bands is lots of fun for West coast hams. . . 8P9AG. Antenna theory doesn't work on a mountain top—80, 40, and 160 antennas failed us. . . 3D6DX.

Having BT1BK call us in a pileup of JA's! . . . VE4AA. We claim the lowest score for the most operators. . . VE3JW. All contacts made while travelling on highway 401 from a fleamarket. . . VE3FEA/m. We hope to repeat this FUNNY experience in the 1986 contest. . . CE8DX. This is the first time to join the WW contest from China. . . BT1BK (Welcome, and hope to see you often—ed.). Contesting is on the way up in VK. . . VK2KL. H5AY called me out of the blue for my only zone 38 contact. . . VK3SM. Spent most of the weekend listening to the hiss of a dead 160 meter band. . . VK6HD. Bag containing my equipment and logs was stolen; only my logs were recovered. . . 3D2EE (Opr. WØJE). It's hard to believe the sunspot cycle is going down; conditions seemed better than last year. . . KG6DX. Luckily, the airline lost the linear on the way home. . . WB6FCR/KH6. Didn't expect such good conditions on the high bands. . . WH6W. Didn't even plan to enter; it just started out so good I kept going. . . KH6CC. Where are all these countries when there is no contest? . . . YCØDPZ.

Conditions on 40 meters were very poor this year. . . ZL1AAS. Many thanks to all the FB ops who worked me during the contest. . . KA3DRR/DV2. I fixed my antenna 3 times during the week before the contest due to high winds. . . 4X5NM. Moving van arrived with rig and furniture from W6 Saturday afternoon; was on that evening. . . JY9RL. It was a disappointment to go to a DXpedition to a rare one and hear the Europeans and the Americans only working each other. . . DF2RG/4S7. Worked 5X5GK and 75 more DXCC on 28 MHz near the sunspot minimum. . . VE1BNN. Excellent sportsmanship; no Murphy; fantastic. . . VE1LI. It's when you operate 24 hours a day that you learn the neighbors have a new video player. . . VE2FU. CQ's yielded ON7IP/ST2,

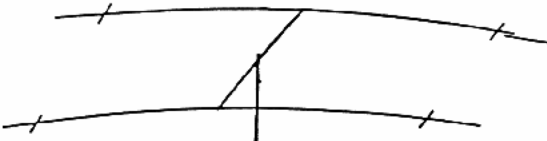
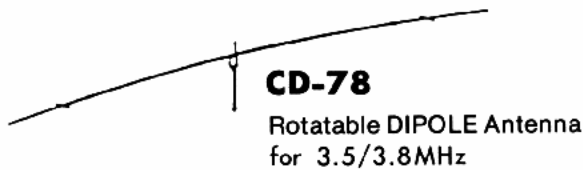
DF2RG/4S7, and 5H3HM . . . VE3XN. Real treat to work VK5BC on 160 meters. . . VE3NNR. You will see more of me. . . VE5AFY. The first contest without CEØAE. We miss you Father Dave. . . EA9IE. Fantastic propagation on all bands at all times; ideal for multi-multi. . . TR8JLD. First time working CQ WW from the DX side. Believe me, it is fantastic. . . TU4BR. 100 watts and a dipole will never outrun anybody. . . EL8E/7.

Oh, for a better 160 meter antenna. . . GW4BLE. The mountains up to 1000 m all around us make it difficult to work the North Atlantic and the States from Monaco. . . 3A5F (Opr. 3A2LF). Logs sent by first helicopter after the contest. . . JWØA. Couldn't keep up with the southern Europeans, but enjoyed it anyway. . . G3RRS. A fine and pleasant single-op contest. . . F6BEE. It was certainly a pleasure to be called by VR6JR. . . F6BBJ. Nice to see all bands coming alive—even 10 meters. . . EI4DW. Want to thank the WVE operators for good behavior in the pile-ups. . . DK8NG. I was amazed at how well some hear QRP and others don't. . . ZL1BIL. Best contest for QRPs. . . EA4CFN. One year of waiting for the contest and I end up ill for the weekend. . . EA2SN. Fun as always in the CQ WW. . . SK6TW. Our highest score in the CQ WW so far. . . 4U1VIC. Conditions a lot better. . . GM4GPN. UFB conditions on 40 meters crossband. . . HG9R. Never had so many DX stations. . . PA3CEF. American stations were booming in on 14 MHz. . . P1GOE. Thanks for the extra sunspots. . . ON6NL. Hard work, good fun, fair conditions—even our contest manager was happy. . . GMØBRS. It was good to be back in the big one again. . . GW8GT. Biggest thrill was getting a camper full of electronic gear across three borders. . . HBØ/ØE3YEA.

The new 3-element full-size on 80 really works. . . ISNPH (Tell us about it—ed.). As usual, N2AA is the beacon on all bands. . . G3VZT. Enjoyed using DLØVHF in the only 3 kHz wide West German 160 meter phone band. . . DLØVHF. Back on the air after 3 years of absolute QRT. . . IV3PRK. Propagation like 1980. Thank you, sun; thank you, CQ. . . I4RYC. Band very crowded. . . I4EWH. I am sorry but I lost my voice after only 12 hours. . . IK4CFV. Nice to meet China in the contest. . . IT9GCQ. Nice to hear the big signal still coming from the W6AM rhombic farm thanks to N6AW. . . ØHØS. Being this far north brings some interesting propagation phenomena. . . K8MN/ØH2. First contact with my 8 watt transmitter. . . YO6DJG. A fine contest; all the best to CQ magazine. . . YO5BQ. I had more QSOs on Saturday than all of last year. . . YU3EA. Call given after each QSO still resulted in 6% dupes. . . YZ9A. TVI problems; had to stop both days when the band was best to the USA. . . YU7XX. Hope to be QRV from D2 next year. . . YU3NA. Heavy storm damaged my quad during the contest. . . ØH2BAH. Pleasure hearing old friends still playing around. . . ØB5WE. Multipliers might be better if stations listened below 3.650 MHz. . . ØP2BIM. Thanks for heating the ionosphere up; contacted W and VE on 10 meters. . . UA6LQ. Many stations were 59 + 30. . . RR2RR. This CQ WW

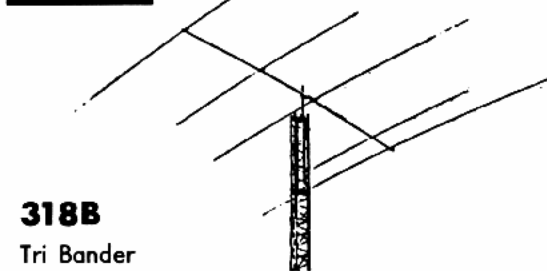


# Creative Design Co., Ltd.



Frequency MHz	3.8	Impedance	50ohms
Front Gain dB Avg.	4-6	Element Length Max.	79ft
F/B Ratio dB Avg.	18	Boom Length	30ft
F/S Ratio dB	30	Weight	148 pound
VSWR	MAX 1.8	Wind Survival Rate	80mil/h
Power Capability			
CW/PEP KW	2/4		
CW: 50% Duty			

## NEW



Frequency MHz	14 21 28	Element Length Max	28ft
Front Gain dB Avg.	7.5 9 9.5	Boom Length	21ft
F/B Ratio dB Avg.	20 18 20	Mast Diameter	2" - 2 3/8"
Power Capability		Weight	49 pound
CW/PEP KW	1/2 1/2 1/2	Wind Survival Rate	90mil/h
CW: 50% Duty		Rotational Radius	17.4ft
Impedance			50ohms

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was wonderful indeed... *UZ9AKT*. The 7 MHz band was best because of our new 4-el Yagi on a 26 meter boom... *RL8PYL*.

## USA QRM

Worked 30CE and 47 LU stations... *KG1E/QRpp*. Would love to see an all QRP CQ WW contest, big ears and small mouths... *K7SS*. Thunderstorms Saturday night forced us off the air for 2 hours of prime time on the low bands with 2 hours more of QRM as they moved on... *WBNGO*. Such great conditions into Europe on 15... *N6TU*. Great being called by *Y11BGD*... *KS1L*. Finally worked *BY*... *W1GD*. I really didn't mean to dupe *BT1BK*; honest, it was an accident... *W3BGN* (*Shame, shame, Steve—ed.*). Ten meters—what a nice surprise... *KA1DWX*. I couldn't work Radio Tirana either night... *K1MM*. Working *KH6XX* on 160 meters—what a signal... *KK2B*. Frustrating waiting for high-scoring ops to ID... *KT2M*. The hardest part was climbing the roof every hour to turn the beam... *N2DUB*. *BT1BK* working *JA*'s on 7073 and never listening Stateside; I almost went nuts... *K2UU*. Worked *UC1AWC* on a shortened vertical on 75 meters when it was still daylight outside... *WB2ITR*. Power outages can certainly stop a good European run... *K1UO*.

Finding *BT1BK* under the QRM and no one answering him... *AD8J/3*. Took off 7 hours to attend law school reunion—scored many points there... *K1VR*. One tube in amp went out... *K1KI* (*Op. K5ZD*). Nothing broke... *K4JPD*. Still a thrill after 30 years... *N4JF*. Trying to find a 5 amp fuse at 5 AM on Sunday morning and being successful... *W4UNP*. Too many stations with the callsign of *QRZ*... *N4MM*. After 20 years as a *W6*, I finally got to see what 80 meters can really be like as a *W4*. NO comparison... *N6AR/4*. Old sol must read *CQ*... *KF4CI*. 20 meters barefoot with a vertical equals frustration... *WA51YX*. My first weekend *DXCC*... *K5BDX*. *CQ WW* still the king of the Contests... *W6PU*. *DX IS* but *CONTESTS ARE*... *W6US*. We all know "You can't work them if you can't hear them," but the QRPer's lament is "You can't work them if they can't hear you"... *W6CN*. TVI during the World Series and football games QRTed me... *W8AKS/6*. Raspberries to Hurricane Gloria... *K1NG*.

Final adjustments made to 20 meter beam by moonlight at 50 feet, 0000 UTC... *NB1H*. Amazed to work Europe on 10 meters... *K3TUP*. Unbelievable conditions for this time of the cycle... *K6LY*. Relay problems caused loss of 7 rhombics first night... *N6AW*. The antenna is not everything—the power company is... *KM9L*. Let the big guns from the East Coast come to the Midwest and see how they score... *KZ0C*. Licensed since 1924. Just getting on the air is a thrill... *W7RIR*. Wow! Four *BY*'s in the first two hours!... *N7TT* (*DX hog—ed.*). Thanks, *CQ*, for another great one... *W7FP*. Hey guys, Montana is in zone 4 not zone 3... *K7ABV*. After 25 years off the air, what a way to get involved again... *W8JRK*. The greatest 15 meter opening to Europe I've ever heard... *N8II* (and others). Even low power and a dipole can be fun... *N9DMG*. Cooperative round-table monopoly of *DX* stations on 75 should be stopped... *N9CIW*. Sunspots may be low but enthusiasm is still high... *K9BN*. Power failures are rough on computer logging... *AC0N*. Just starting; every country was a new one for me... *KA0TMW*.

## Station Operators

### Multi-Operator Single Transmitter

**BT1BK:** JA1BK, JK10PL, Yuan Bo, Li Gouzhun, Wang Gouxiang, Sheng Yongjian. **BY4AA:** Xie Di-Hua, Xuru. **CE3PA:** CE3AQ, CE3AOV, CE3CTF, CE3CBA, CE3HBA, CE3HFA, CE3IBQ, CE3JIB, CE3JIC, CE3RR, CE3WE. **CE4ETZ:** Club. **CE5CJA:** CE5BYF, CE5EMZ, CE5GTH, CE5SG, X05BIB, X05CFR. **CE8DYX** & **CE8EAC,** **CE8FGC,** **CE8PD.** **CH4ALO:** VE4ALO, VE4VV. **CN8MC:** CN8EJ, CN8LF, CN8LN, CN8MK. **DA1WA:** DA10S, DA1VD, DA2AB, DA2DG, DA2HS, DA2ZD, DJ0AW, DJ0KS, DJ0LC, DJ0SI. **DF0BV:** DL6MAO, DL1MAJ, DJ1DJ & DL5MAE, DL7MAT. **DL0BI:** DK1GH, DF9YG, DL3YBP. **DL0JK:** DK1DU, DK2XX, DL1FAK, DL2ZBK, DL2ZBM, DL2ZBP, DL2ZBR, DL2ZBS, DL3ZBA, DL3ZBC, Thomas. **DL1KOT & DL1KDS,** **DJ6UP.** **DL0JS:** DK4EC, DL7AMH, DL7ZQ, DL7AND, DL7AAZ. **DL0RBW:** DF6QV, DJ8CR, DL9NC. **DL0SS:** DL1AAR, DL6AAA, DL8AAT. **DL0UE:** DF20A, DJ5FT, DL3LU, DL7BI. **DL0UM:** DG1ZB, Club. **DL0WU:** DJ8SV, DJ8UV, DJ9YI, DL8EBN, DJ5PN. **EA1RCQ:** EA1BCF, EA1CXL. **EA3MM:** EA3EDV, EA3DIF, EA3DMQ, EC3CJG. **E6GNP** & **E6GVQ,** **E6GSX,** **E6GTC,** **E6GUO.**

**E80Z** & **E8A8B,** **E8A8OM,** **E8A8ON.** **ED3CRE:** EA3BOW, EA3BOV, EA3CVA, EA3DDV, EA3DGO, EA3EIO. **ED6MDX:** EA6KZ, EA6MR, EA6JW, EA6MO, EA6JZ, EA6WA. **ED7BB:** EA9EO, EA7TL, EA7BU, EA7EL, EA7TH, EA7FFA, EA7CEC, EA7CFW, Jose, Angel. **F6IFR** & **F6CWN,** **F6BPX,** **FD1JVZ,** **F6GWV.** **F08KS** & **F081W,** **G3LNS** & **G3KDB.** **G3YMH** & **G6LOS,** **G6LOT.** **GB2AA:** G4PWA, G4TNB. **G4MWA** & **G4B8H.** **G4JUV:** G4JVG, G4FRE, G4JYHU, G4DIC. **G00BRS:** G1FFF, G3HDT, G3MRK, G3YOG, G0AVU, G01JFF, G03KAJ, G04HKH, G04VJV, G04WDO, G04ZJX, G08BDX, G08JIC, G08BP. **G0B/P2AFAS** & **P3AWW,** **P3CJF,** **PA0TUK,** **PE1FNB.** **GW8GT:** GW3NWS, GW3KYA, GW4TTU, GW4ZUL, GW08IC, GW5NF, GW4XLQ, GW08RG, GW08CID, G3DAY, G4BXE. **H5AY:** VE3FXT, ZS4JB, ZS4KK, ZS4NS. **HA1KRR:** Jozsef, Zsolt, Janos, Jozsef, Jozsef, Sandor, Janos. **HA2KMR:** Jozsef, Attila, Gabor, Gaba, Julios, Laszlo. **HA2KRP:** HA2RP, HA2VG, HA2E00, HA2E01, HA2PP. **HA3KGC:** Attila, Tamas, Pal, Jozsef, Istvan. **HA3KA:** HA3FTA, HA3NS, HA3NU. **HA5KDB:** HA5AIY, HA5XA, HA5NP, HA5CP, HA5MY, HA3RC. **HA5KDX:** HA5LN, HA5VJ, HA5FM.

**HA5KC:** HA5LV, HA5MA, HA5MO, HA5OG, HA5WU, HA5MO. **HA7KLB:** HA7MY, HA7LD, Aniko. **HA7KMP:** Tamas, Janos, Alexandrosz. **HA8KA:** HA8LKB, HA8LKC, HA8IG. **HA8KUC:** HA8VX, HA8GB, HA8GZ, HA8ZQ, Hubicskai. **HA8KZC:** HA8ZC, HA8XF. **HA8KDA:** ?bert, Zsolt, Istvan, Gyorgy. **HB9ACA:** HB9ADD, HB9BNJ, HB9CHR, HB9B0U, HB9CJG, HB9BQP, HB9CYF. **HB9AUS** & **HB9SFL,** **HB9ASD,** **HB9EEX,** **Allesandro,** **Emanuele.** **HB9GT/:** HB9BTI, HB9CKL, HB9CWP, HB9CWU, HB9CMX. **HB9H:** HB9AGC, HB9BLQ, HB9ALM, HB9CIP, HB9CXZ, HB9AIB, HB9CAT. **HB0/0E3YEA** & **0E5VBL.** **HB0BHA:** DJ2EH, DL5NP, DL8NBH, DL9NAP, DH9HAP, DL4NN, DL4NAC, DK7NM, DL8NBJ, DK6NN, HB9BHA.

**HG1S:** Gyula, Laszlo, Tibor, Ferenc, Kazoly, Laszlo. **HG5A:** HA5WE, HA5GF, HA5MK, HA5UA, HA7RY, HA7SU, HASLN, HA5OM, HA5HO. **HG6N:** HA6ND, HA6NY, HA6ON, HA6NG, HA6OQ, HA6NF. **HG6V:** Laszlo, Laszlo, Sander, Laszlo, Jozsef, Zoltan.

**HG7B:** HA7UO, HA7UG, HA5WA, HA5MY, HA5PP, HA5KQ. **HG9R:** HA9PP, HA9PV, HA9RB, HA9RP, HA9RU, HA9RX. **HK3MAE** & **HK3KME**, **HK3XJ**, **HK3KRU**, **HK7HHW**. **HL9TX:** HL9AA, HL9CW, HL9JM, HL9KW, **I2UBI** & **I2A0X**, **I2CZO**, **I2VRN**, **IK2DVG**. **ISNPH** & **IK5BAF**, **ISSDG**, **ISMPK**, **ISMPN**, **I6JX**. **AA4VK/J6L** & **WA4TLI**. **J1AYBK:** J1MUT, J1M1UP, JG2CLS, JI2CLF, JI3QJF, JH0LFE. **JA2YDC:** JE2EVX, JE2EZO, JF2KZO, JF2TZG, JJ3BKM. **JA3YBF:** JN1DPL, JG3LZG, JF4BME, JR4AGT, JR4IZK, JE6BXJ, JR8DHE, JA9TOZ, JA9UXW, JH9GRM, K, Yamai. **JA4YPE:** JF3MOK, JI3VOH, JE4VWA, JF4FAM, Agochan, Kodama. **JA6YBR:** JH5GLL, JF6DEA, JG6CVO. **JA7YAA:** JJ1MNV, JJ1PEU, JG3URM, JE7HLZ, JR7PGL, JH0MRP, JH0ORW. **JA7YAB:** JJ1NNJ, JG3ENB, JF7SVH, JR7CDI, JR7IQS, JA1-31800, JA8-3801. **JA7YWD:** JQ1ENT, JE7XGQ, JQ1TIO. **JA8YBY:** JE3XWH, JH50NJ, JH8JG, JR8DGB. **JA8YK:** JA9VSX, JH9JUC, JH0ELL, JH0GAT, JH0GOW, JH0MVU, JH0NUX, JH0CPX, JH0SDA, JH0SQJ, JH0TJU, JH0EUD, JH0XUP, JR0CDR. **JE1YVP:** JF1JQD, JF1KOB, JI1BNX, JM1LZT, J01CRA, JR7DZB. **JE2YRD:** JA2EZD, JE2LQX, JF2EZA, JF2XJE, JI2KVV, JR2SCJ, JR20DO, JI3JGJ.

**JH1YTX** & **Fumio Yagasaki**. **JH0ZHH:** JA6CSY, JE6JRY, JF6JAE, JF60JS, JG6FQR, JH6NTL. **JH7YJF:** JA7DWW, JH7DNO, JH7XWT, JR7QKR. **K1NG** & **K1IG**, **WA1TFF**. **K1XM** & **K1T0**. **N1DRJ**. **K1YR** & **K1RU**. **K2BU** & **KB2XZ**, **WA2HGM**. **K2NJ** & **K20JM**, **KD2EL**, **KQ20**, **KU2C**, **KY20**, **KY2P**, **K2BK**. **K3KG** & **K3ZR**, **K4FJ**, **K4AS**, **N4TX**, **W4NL**. **K3NZ** & **K3YD**, **KJ3R**, **KU3K**, **KW3W**. **K3TUP** & **K3LR**, **KJ3L**, **N3BJ**, **AIBS**, **K8BIZ**, **W8CY**. **K3WJV** & **WA3ZTR**. **K5RVK** & **K5GB**, **KC5M**, **W5ASP**, **WA9VLI**. **KGLY** & **WA1NHP**, **WB4VZC**, **KA6HV0**, **K86DNE**, **K86GGN**, **KF6CC**, **NA6JG**. **N6ALS**, **N6MLO**, **NK6H**, **W6TMG**, **WB6ZSB**, **KA9NLX**. **K8EJ**. **K6TQ** & **WABEJL**, **WA5TBO**. **K8VVY** & **N8EKK**. **K4VX/0** & **KM9P**, **K9BGL**, **KR0Y**, **N8SS**, **W80UN**. **KA1X** & **AK1L**, **KA1FBY**, **KA1MI**, **KC1X**. **KA6V** & **AA6BB**, **WA7CGR**. **KABCEH** & **N8GQB**. **KB4LN** & **Net**. **K80KK** & **K80D0**, **KC5DX** & **NN5E**. **KD5WR** & **KA5B00**, **KA5DLU**, **KA5VUU**. **KD8AM** & **N8FEB**. **KD8JN** & **NM8K**. **KE6WL** & **KDENT**. **KAR6VS/KH2** & **NY6M**. **KH6WD** & **K7GM**, **N7NR**. **KH6XX** & **KH6ND**. **KIGT** & **N8MNB**. **KM9L** & **K9ZO**, **WB9JKI**, **Max**. **KP4BZ** & **NP4A**, **NP4CC**, **WP4C**, **WP4J**, **WP4K**. **KR0B** & **AF9T**, **KA8JZV**, **KJ0B**, **N86KL**, **N8BKY**. **K99K** & **K9CJ**, **KD9J**, **KJ9I**, **N9AW**, **SM7DZT**, **WB7DZN**, **WB9AUK**, **WB90JE**. **KX4S** &

AA4D, KG4W, N4BLX, N4EHJ, NK4J, W4DR, W4MYA, W4XR, WB4BVM, WK4Y, WU4G. **KZBC** & **KF0H**.

**LA2AB:** LA2HFA, LA4DCA, LA8SDA. **LA7JO** & **LA2T0**, **LA1BFA**, **LA9TCA**, **LA1UI**, **LA3WAA**, **LA8GV**. **LU1DUJ** & **LU1NCO**, **LU3EZA**, **LU7DEE**, **LU8ESU**, **LU8EWD**. **LU1VZ** & **CX6RF**, **LU1VD**, **LU1VJR**, **LU1VNE**, **LU2VAU**, **LU3DXL**, **LU5VD**, **LU7VCA**, **LU9VAB**. **LZ1KNP:** Iliu, Iliu. **LZ1KVZ:** LZ1-F-194, LZ1-F-192. **LZKZTS:** LZ2CC, LZ2PO, LZ2HE, LZ2DF, LZ1-A-310/2. **N1AU** & **W1FJ**. **N2MM** & **WB2Y0F**. **N3EC** & **KA3NEZ**. **N4BS** & **KB4FDK**, **N4ERR**, **WA4GHO**, **WB4FOT**. **N4WW** & **K8LUZ**, **KA4VXT**, **NX4N**, **WA4SV0**, **WY4A**. **N4XM** & **KD4U**, **KI4DC**, **NU4R**. **N4ZC** & **K2SD**, **AA4S**, **KA4M0G**, **KD4RH**, **WA4UNZ**, **W6NWS**, **WB8MAZ**. **N6CCL** & **N6IYI**. **N6IC** & **NY6I**. **N6ND** & **KM6K**. **N6W**. **N6CX** & **N8B7**, **N8DEI**, **N8ET**, **N8TH** & **K1FEW**. **N8GL** & **K4UVT/6**, **N6EK**, **WB6MZO**. **NCTK** & **NP7F**, **N7FEM**, **K1CD**. **NF9S** & **KM9W**, **N9ADN**, **N9CPW**, **N9EJL**, **N9FCA**, **NA9M**, **NB9C**, **WB9NOV**. **NK7U** & **Ni7T**. **NW5E** & **NW5F**, **NY5B**. **OH7AI:** OH7UV, OH7HK, OH7BY, OH7EU. **OH8BA:** OH2JA, OH1JT, OH1XN, OH2BA, OH2BH, OH2MM, OH8UM. **OK10RA:** OK1-21622, OK1-22310, OK1DHP, OK1AYD. **OK3KK:** OK3CEI, OK3CAW, OK3DCV, OK3CTM. **OK3VZ:** OK3ZAF, OK3-27736. **OK5R:** OK1ADM, OK1AS, OK1ALW, OK1AWZ, OK1DM, OK1RM, OK1IS.

**OK5SSM:** OK1AYE, OK1DDU, OK1DRI, OK1DRT, OK1FRI. **OK5W:** OK1AEZ, OK1JCV, OK1APJ, OK1WT, OK1JUB, OK1JKT. **ON6AH** & **ON5AV**, **ON5IO**, **ON6MH**, **ON6OR**, **ON6VL**, **ON7KL**, **ON7VZ**. **ON6NL** & **ON6MP**. **PA8MPN**, **ON18BZ**, **ONL6Z**, **ON6JZ**, **ON1ANK**, **ON1BCS**. **OZ1KZC** & **OZ1BQA**. **P44B:** N3ED, WA3LRO, K3EST, N2ZZ. **P48K:** IBMPD, IBUZA, IBULL. **PA3CEF** & **PA6C0R**, **PA3DDW**. **PA8KHS** & **PA8ADP**, **PA8VYH**, **PA3ADJ**, **PA3DDW**, **PA3DYA**, **PE1LX**. **PI16E:** Pupils of Christely Lyceum Voor Zeeland. **PI4TTC:** **PA8FMA**, **PA2JMK**, **PA3CKY**, **PA3D0X**, **PA3DUC**, **PA3DZP**, **PA3EBC**, **PE1LEZ**, **P000EK**, **P000PC**, **P000RP**, **NL8421**. **RB4IXL:** **UB4IHV**, **UB4IRC**, **UB5II**. **RL8PYL:** **RL7PAV**, **RL7PHI**, **RL7PHO**, **RL8BA**, **RL8BY**, **UL7PAE**, **UL7PCZ**. **RZ6AWH:** **UA6-101-1628**, **UA6-101-1629**. **RZ6AWP:** **UV6AGF**, **UA6-101-1632**. **SK6TW:** **SM6A0U**, **SM6CPY**, **SM6DER**, **SM6DOI**. **SM5AZN:** **SM6MC**, **SM8ATN**, **SM58GM**, **SM5AZU**. **SP3PKK:** **SP3DAH**, **SP3MIW**, **SP3MZ**. **SP5PBE:** **SP5ANJ**, **SP5EJL**, **SP5FKW**, **SP5LCT**, **SP5GIC**, **SP5JIM**. **SP9PR0:** **SP9JLD**, **SP93110-KA**. **SP9KJT:** Club. **UB4AXA:** **UB5AKA**, **UB5-075-1076**. **UB4EWB:** **UB5-060-1376**, **UB5-060-1727**, **UB5-060-2630**. **UB4IZA:** Club. **UB4MWU:** **UB5M8M**, **Eugene, Sten**, **Yulja, Ela**. **UB4MXA:** Club. **UB4QXU:** Club. **UB4TWL:** Club. **UB4VVA:** Club. **UB4WYA:** Club. **UB4WZA:** **UB5WBY**, **UB5WCX**.

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World QRPp

**Angel N. Padilla, WP4G**

Donor: Adrian Weiss, K8EEG/0

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World—21 MHz

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**Yuri Blannarovich, VE3BMV**

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Canada

**Earl A. R. Dery, VE7IN**

Donor: Gene Krehbiel, VE7KB

Caribbean/Central America

**Carlos A. Paez, TI2CC**

Donor: Pedro Piza, Jr., NP4A (KP4ES Memorial)

Europe—28 MHz, Zone 14

**Artur M. B. Gomes, CT1DIA**

Donor: A.G. Anderson, GM3BCL

Japan—21 MHz

**Yoshifumi J. Kotaki, JI1CBF**

Donor: DX Family Foundation

### MULTI-OPERATOR

#### SINGLE TRANSMITTER

World

**P44B** (Oprs. N3ED, WA3LRO, K3EST, N7ZZ)

Donor: Southern California DX Club (W6AM Memorial)

U.S.A.

**KX4S** (Oprs. KX4S, W4DR, WB4BVM, WK4Y, W4MYA, W4XR, KG4W, WU4G, N4EHJ, NK4J, AA4D)

Donor: Carolina DX Association

### Europe

**YZ1EXY** (Oprs. YU1EW, YU1FS, YU1RL, YU3IW, YU1PKC, YU1PKB, YU1PAW, YU1LA, YU1WR, Vel, Dragon)

Donor: Bob Cox, K3EST

### Canada\*

**VE3BVD** (Opr. VE3BVD, VE3CDX, VE3FRA, VE3OZB)

Donor: CQ Special Plaque

### Canada

**VE3X0** (Opr. VE3XO, VE3CKF, VE3CPU, VE3ICR, VE3LWJ, VE3MFA, VE3MFP, VE3MMB, VE3WT)

Donor: Calgary Amateur Radio Association

### MULTI-OPERATOR

#### MULTI-TRANSMITTER

World

**HC8X** (Oprs. AB8K, K2XM, K8CV, K8CW, K8MA, K9AJ, KA8TKB, KA9RHK, KP2A, KQ1F, N2IC, NE8Z, W0RLX, W6CDR, W8KKF, W8PBO, WA8YST, WD8ATP)

Donor: Radio Club Venezolano

U.S.A.\*

**N2AA** (Oprs. N2AA, K2BQ, K2GL, K2GM, K2NG, K2SS, K2TT, K2TW, K2UR, K5NA, KA2MXO, KC2X, KR2J, KR2Q, KU2M, KU2Q, N2WT)

Donor: CQ Special Plaque

U.S.A.

**W3LPL** (Oprs. W3LPL, AI3M, KA1GD, K1RZ, K3DI, KF3P, KM3T, KX3Q, KC8C)

Donor: Dale Hoppe, K6UA

Europe

**IO3MAU** (Oprs. I3JOS, I3BYT, IV3TOE, I3JTE, I3MAU, I3FIY, I3ON, I3EVK, IK3BTK)

Donor: OH-DX-RING (OH2AM)

### CONTEST EXPEDITIONS

World—Single Operator

**8R1Z** (Opr. Ralph A. Dougherty, Jr., NQ4I)

Donor: Stuart Meyer, W2GHK

World—Multi-Operator

**VP2VCW** (Oprs. K1EA, K1RX, KQ2M, N6AA, N6CW, N6ZZ)

Donor: The German CDXG & SDXG (DJ3NG & DJ4EI Memorial)

\*Winner from previous year. See rules.



**UC1AWC:** Leonid, Roman, Natalija. **UC1CWC:** Serge, Vlad, Ivan. **UC1LWN:** Club. **UD70WZ:** Club. **UG76WL:** UG6GAF, UG6LO, Aram. **UL6LWA:** RL7LEP, UL7LER, UL7-026-577, UL7-026-587. **UL8LWZ:** RL7LA, UL7LE, UL7-026-177. **UM6MWO:** RM8MA, UM8MAA, UM8MKO. **UM9MZD:** Club. **UO40WX:** Club. **UP1BWX:** UP2BZ, UP2DT, UP2BA, UP2BN. **UP1BYT:** UP2-038-1757, UP2-038-1758. **UP1BZD:** UP3BU, UP2BOA, UP2BFN, UP2BDW, UP2BNC, UP2-038-346, UP3BO. **UP1BZ:** UP2BG, UP2BN, UP2PA. **UQ1GWT:** UQ26FB, UQ26JW, UQ2-037-341. **UQ1GXJ:** UQ2-037-436, UQ2-037-437. **UQ1GXN:** UQ2GM, UQ2GD. **UR1RWW:** UR2RKM, UR2RMZ, UR2TAX. **UR1RXL:** UR2ED, UR2RLK. **UR1RY:** UR1RO, UR2RMR, UR2-083-914. **UT4UW:** UT5UCU, UT5UDU, UT5-186149. **UZ1TWW:** RA:TAD, UA:1TA, UA:1TE. **UZ3AWH:** UA3ARI, UA3-102-1132, UO5-039-166. **UZ3AXH:** Club. **UZ3PWJ:** UA3PLS, UA3PHN, UA3PQF. **UZ3QVA:** Club. **UZ3TWT:** Andrei, Serge. **UZ3XWV:** UA3XBB, UA3XCC, UA3XEF. **UZ4AWB:** Club. **UZ4FWE:** UA4FU. UA4-148-573, UA4-148-599. **UZ4XWO:** UA4FZ, UA4FAO, UA4FEF, UA4FER, UA4-148-473.

**UZ4HWZ:** UA4HA, UA4HAK, UA4HID, UA4HJA, UA4HOV. **UZ4WWS:** Club. **UZ4WWC:** Club. **UZ4WVF:** UA4WCF, UA4-095-420. **UZ6AWX:** Club. **UZ6HXX:** Alex, Oleg, Serge. **UZ6HZN:** Club. **UZ9AXT:** UA9ABV, UA9AML. **UZ9CWW:** UA1TAC, UA9CPB, UA9CTI. **UZ9CYB:** Club. **UZ9CYP:** UA9CKF, UA9CON, UA9CUA. **UZ9OWD:** UA9-130-122, UA9-145-168, UA9-103-554. **UZ9XG:** Club. **UZ9OXI:** UA9-145-205, UA9-145-206, UA9-145-207. **UZ9UWN:** Club. **UZ9XWH:** UA9XBY, UA9XFY, UA9-090-964. **UZ9AWB:** UA9ABK, UA9AFQ, UA9BDX, UA9BGI, UA9-103-239, UA9-103-347, UA9-103-712. **UZ9CWA:** UA9BCA, UA9CB, UV0EX, UW0CA, UW0CN, UW0CM, UA9OCD, UA9-110-297. **UZ9LW:** UA9LD, UA9LN, UW0LT, UW0MF. **UZ9LW:** Club. **UZ9OWF:** UA9OFR, UA9OGX, UA9-098-130. **UZ9OWT:** RB5EDJ, RB5IMK, UA9OHP. **UZ9QXM:** UA9QBZ, UA9QDD, UA9QHK. **VE3BVD & VE3CDX, VE3FRA, VE3OZB, VE3EFA/m & VE3JW.** VE3JW: VE3BHA, VE3ATJ, VE3BAJ, VE3CDS, VE3DCI, VE3FUB, VE3JPC, VE3JRF, VE3JZT, VE3LNH, VE3JNU, VE3QAO, VE3OAE, VE3CWL, VE3OWV, VE3PDR, VE3POK, VE3PFX. **VE3UOT:** VE1BCZ, VE1BLG, VE1CJP, VE3HTT. **VE3XO & VE3CKF, VE3CPU, VE3ICR, VE3LWJ, VE3MFA, VE3MFP, VE3MMB, VE3WT.**

**VE4AA:** VE4ADV, VE4AGR, VE4BJ, VE4IM, VE4LS. **VP2MU & K6XM, W6RC, W2HPF & N2PP, W2UI & N3KR, W3AP & Net, W4PRO & N3NA, W4VM & Net, W4PR0 & KA2IM, AA4NG, W8B4U, W640, Y4VHA, N7FMB, W6BIP & WA6AU, WA6PYN, W6TMD & NW6S, N6GU, AB6R, KB6UF, W6VLD & K5KT, KB6EKL, KR6U, N6KN, WA6DPQ, WA6HJK. W6XJ:** N2KKV/6, K6JYO, WA6DBC, W660KK, W6BWC & WA4MAT, N8DCJ, W8CZN, W8JGU, W8DXB, W8DXG, W8BRN, W8UA & K8GL, K8NA, W8LU, W8TA. **WA3EUL & W83EKV, WA3SPJ & K3SF, WA4LSM & KA8QY, KA8TDI, K07E, W85E & KA5IFP, KE5BJ, KA5TL, K05CN, K5HJ, KA5MAY, NM5F, W0DFDQ, K5L5V, KA5ROJ, KA5PMA. W880G:** Club. **W06DJZ:** KH6WZ, KR6T, N6MLL, W6BLMN, WS4E & N2AWM, WA4CLP, Net. **XQ2ZFZ:** CE3BFZ, EA4LH/CE3, Y3ZB & Y3BT, Y330B. **Y4ZFF:** Y33FP, YU9SF, YU9RF. **YO8KH/p:** YO8ME, YO8MI, YO8YG, YO8PB. **YO8KOD:** YO8CHI, YO8EB, YO8DDP. **YT2R:** YU2MM, YU2DQ, YU2LJ, YU2MY, YU2OH, YU2OG.

**YT6M:** YU1ZZ, YU10WB, YU6ZBG, YU6ZCF, YU6ZAR, YU6AUV, YU6EZA, YU6AD, YU2AKL: Suno, Boro, Zlatko, Ozren, Lorenzo & Comp. **YU3GH:** Minovic, YU3GZ, Mario. **YU4FE:** YU4WYM, YU4WZM, Miraz, Drago. **YU1EZY:** YU1EY, YU1FL, YU1RL, YU3UY, YU1PKC, YU1PKB, YU1PAW, YU1LA, YU1WR, Vel, Dragan. **ZP5JCY & LU8DPM, ZP5JAL, JPSZR, ZS6BPL & ZS6BRZ, ZS6BIM, W6KGZ/S & W6LW, ZY5BE:** NSFA, PPSABW, PY5ALP, PY5CA, PY5GE, PY5TT, PY5VM. **306DX:** ZS6BRZ, 306BQ. **4N2D:** YU2LQ, Erceg, Ivo. **4N4C:** YU4EJC, YU4EDV, YU4JLM. **4U1VIC:** OE2VEL, OE3GSA, K7AWD, OE3WWB, OE4SZW, KA0VHK, OE3OLW, OE1ZUS, WA7GFS. **8P9AG:** AK6T, K6ZM, N6AUV.

### Station Operators Multi-Operator Multi-Transmitter

**AD0P & AD8C, K3JT, K0BNS, K0BE, KS8S, NZ4K, W8FN, W0BIKE, EA1DOB & EA1DZW, EA1CCG, EA1DOK, EC1BBU, EC1CLL, HB0AON:** DF1JC, DJ2YE, DK5EZ, DK8EY, DL6EAQ, DL8EAQ. **HC8X:** AB8K, K2XM, K8CV, K8CW, K8MA, K9AJ, K8BTB, K8RKH, K2PA, KQ1F, N2IC, NE8Z, W8RFX, W6CDR, W8KFF, W8BPB, WA8YT, W0B8ATP. **IZM0P & IZ9KX, I03M3L & I3BTK, I3BTK, I3BTK, I3FJV, I3J7C, I3ON, I3JSS, I3NDYQ, I3V3QE, JA1YAO:** JA9UFS, JH5GHH, JH5MXM, JH9ADA, JH9AMJ, JP1DMX, JR6JQE, JS1PAQ, JS1WMD. **JAIYXP:** JF10LY, J110HJ, J1A1QJ, J1N10TG, J1R4CV. **JAZ2YC:** JG2GWO, JG2OGT, JG2RAP, JG2RNB, J1R1JI. **JAZ2YA:** J11BCT, J12JCV, J12VYM, J12DQJ, J12PFO, J12U7L, J12MTC, J12VTD, J12J0ET, J14V8Q, J12JXR, J12WYI, J12JNF, J12R2MC, J12R3MC, J12R3Y, J12R3Y, J12R3Y. **JAZ3YC:** JK3J7J, J13CLB, J13HEV, J13M3UT, J13M0HJ, Misuzu, Deguchi. **JA9XK, JA9YK:** JG3CPC, JG3HJG, JG3HLV, JG3MRT, JG3WON, J13ERV, J13SRU, J13GRR, J13MCM, J14RHF, J14RIMK, J14RPMX, J14SEM, J14SAR, J14LPM, J14R6NM, J14R6TM. **JA4ZQ:** JA3EJG, JA4CUU, JA4CJJ, JA4FXL, JA4KLO. **JAGYCL:** JE6EKC, JE6PPW, JG6DZY, JH5ODR, JR6CUM.

**JAZ7YB:** JETJWB, JETMOY, JETAAD, JF7GQ, JF7TOD, JH7XKI, JH7XMO, JN1R0N, JN1R0N, JN1R0N, JR7GYC, JR7JLU, JR7JVO, JR7LCL, JR7OEF, JR7OYV, JR7RLB, JR7WFH, JH00NT, JR0ASV. **JAT7YF:** JET7AF, JET7DBH, JET7ENK, JET7HMC, JET7JWU, JET7MTI, JET7RUC, JET7WOL, JET7XTQ, JET7YLN, JET7YUD, JET7YUJ, JET7YBY, JET7YF, JET7OPP, JET7MPT, JET7MRQ, JET7SOA, JR7UOL. **JAT7YR:** JS7CLN, JAT7FDY, JAT7JWD, JAT7LBF, JAT7MQM, JAT7MQJ, JAT7OZV, JAT7ROE, JAT7W5C, JH7VHZ, JR7LVA. **JA9YBA:** JET7BZ, JAS9LN, JAS9NF, JAS9OTX, JAS9PPC, JAS9QCE, JAS9QW, JAS9VW, JAS9VA, JH9GAT, JH9YCT: JAE80M, JEB8FO, JH8JQP, JH8WAK, JH8WAH, K. Fukuoaka, K. Yano. **JW5E:** LA5NM, LA7FD, K3II & K8BOI, WA3IMY, K3ZZ & WA3EKL, N3AOE, K3CEK, KL7Y & KL7HFA, KL7U, NL7GP, NL7P, WL7E. **LX98V:** DK1FW, DK2OY, DK8MZ, DL6RAI, DL7NAG, LX1RQ, LX1VW, LX1MK, LX1BI, LX1R, LX1MC, LX1SL, Gunther. **N2AA & K2BZ, K2GL, K2GM, K2NG, K2SS, K2TT, K2TW, K2UR, K5NA, KAZMXO, KC2X, KR2J, KR2D, KU2M, KU2D, N2WT, WA2BFW, WB2BCH, N3ARK & K3IE, K83MM, W83FZ, W83LZ, N4RJ & AA4GA, AA4NC, KAPHE, K4PI, K46R, KN4B, KN4X, N4DX, N4NX, W8ZF, WA4OZT, W4D4C.**

**NS4U & K5MR, KESCV, KM5X, KY5N, N5CR, N5RZ, N5TR, WA0TKJ, W85VZL, N6R0 & N6BV, K6TMB, K6XI, KA6W, N6VZ, W6RGG, W7MAP, N6BI, N6TU & A6UO, K5XO, N6RZ, W6NV, WA6OLV, W86SHD, N6VR & N6ADI, N6GUC, N6HK, AC6T, N6JWU, AL7J, WA6FGV, N6JK, W8R0 & K7GL, W7EKM, WA7ZGW, W87LU. **N8E & K9MMW, K10C, K2VNB, W0KEA, W8LSD, W8R0G, W8R0G, N6FL & AG2S, K3JLT, W8ZNP. N8SM & AK3B, NS5J, K7KO, K5GN, K5LZO, KD5SP, K5IV, K5TF, K5U, K2SM, NSDU, N5EA, NM5M, NT5D, W9AGH. T1C & Tuncer, Iopdemir. VE7ZZZ:** VE7AJP, VE7AV, VE7DLM, VE7DP, VE7DS, VE7EQG, VE7IG, VE7RQ, VE7SK, VE7VX, VE7WVV, VE8Z, VE83CR, VP2NM: A16V, N6BT, N6UG, WA6DQX, WA6VEF. **VP2VCW:** K1EA, K1RX, K02M, N6AA, N6CW, N6ZZ, VP6AD & G4CNY, N3RD, N8ET, VP9J, W3MA. **W3GM & K3GM, K3ND, K3VW, N3VY, W3FY, W3PL & A13M, KA16D, K1RZ, K3DI, KF3P, KM3T, KX3Q, KC8C, W8NGO & K8ZZ, W8ONA. WA7RDJ & N7HOE, YT2D:** YU2OB, YU2OM, YU2SA, YU2TR, YU2S2L. **YU3IUP:** YV3BVG, YV3BWI, YV1ACO, YV3BUL, YV3BJH, YV3ADR. **4U1ITU:** D16QT, D148BQ, DL6FAW, DL6FBL, K41IF.**

1. WP4G	342,382	6. YU1NR	114,912
2. K3WS	315,205	7. OH3GD	98,192
3. K7RI	271,122	8. OK3IAG	95,996
4. K7BTB	176,860	9. SM5CCT	78,892
5. JA1WSK	115,062	10. UY5XE	78,859

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

### SINGLE OPERATOR NORTH AMERICA

#### UNITED STATES

K1AR	A	4,007,648	2465	129	427
K1DG	"	3,030,797	1947	128	411
AK1A	"	2,181,780	1917	105	286
KS1L	"	2,059,176	1735	103	309
W1WEF	"	1,927,791	1607	105	312
K1KI	"	1,798,004	1290	120	367
		(Opr. K5ZD)			
KM1C	"	1,561,782	1402	108	285
		(Opr. W8B8TH)			
K1VR	"	1,469,286	1235	106	308
W1YK	"	910,000	1280	74	186
K8HVT/1	"	747,609	839	86	235
W1CWU	"	723,711	799	87	230
KY1H	"	455,840	672	76	183
AG1C	"	375,570	553	59	175
W1PH	"	348,505	524	61	174
KB1W	"	326,474	589	69	170
W1HN	"	316,675	465	62	177
KA1DWB	"	266,060	380	74	177
K5MA/1	"	265,650	439	55	155
K1KJT	"	197,823	474	35	106
AA2Z/1	"	191,301	358	48	139
W1FM	"	183,300	349	54	141
KB1H	"	159,980	296	51	139
W1BIB	"	154,860	223	78	189
N1AFC	"	140,760	297	45	125
KA1ON	"	131,028	250	50	133
KA1LZR	"	128,140	256	43	129
KA1EKR	"	121,278	244	58	116
W81DXX	"	81,760	107	41	99
W1AX	"	75,076	192	34	103
AB1U	"	75,000	229	33	87

KA1MI	"	57,300	139	37	113
K1CC	"	54,705	180	22	83
K81BP	"	44,232	137	33	81
KA1CB	"	39,168	142	29	73
W1FV	"	29,568	125	22	66
N1DLS	"	29,072	119	29	63
KB1GN	"	17,301	82	23	50
N1CC	"	12,960	92	20	59
W1PLJ	"	8,466	60	14	37
K81BZ	"	7,293	51	13	38
WA1YZV	"	6,016	48	17	30
K1SA	"	4,788	47	6	30
W1LUG	"	104	13	6	6
K61E	28	71,688	300	18	69
KR1R	"	12,083	102	11	32
W1BSW	"	5,994	77	13	24
KA1LJZ	"	5,544	44	11	31
K01V	"	1,134	22	7	11
K1VUT	21	204,820	634	22	88
K1EPI	"	113,870	333	24	94
K1KNQ	"	3,150	35	9	21
K1DX	14	1,131,328	2176	36	140
K1UO	"	878,472	1781	33	133
KA1GG	"	565,136	1279	33	110
W1GF	"	118,473	403	24	77
WA1FCN	"	109,096	360	23	81
W1MGP	"	100,419	176	21	60
NB1B	7	60,424	210	25	79
K1MM	"	25,112	106	24	62
K1TR	"	1,144	19	8	14
K2RR/1	3.8	46,640	197	19	69
WA1ZAM	"	6,708	53	15	37
K1ZM	1.8	20,502	125	19	48
KA1SR	"	2,210	45	8	18
N2LT	A	2,468,575	1789	120	365
W2RD	"	2,365,251	1702	118	355
KE2C	"	2,211,978	1486	127	382
K2TR	"	1,896,102	1387	123	358
N2RM	"	1,526,408	1564	83	255
K2VY	"	1,051,085	124	81	214
WA200S	"	740,144	781	89	245
K2FL	"	494,982	559	87	234
W2VW	"	407,936	573	73	223
K2QF	"	427,944	576	71	193
K2JLA	"	425,290	540	83	207
KY2J	"	342,210	487	67	188
NG2X	"	322,588	414	79	202
N2MR	"	317,338	431	73	193
NA2G	"	303,160	501	53	159
N2AIF	"	258,390	421	43	146
K2QIL	"	228,501	421	43	146
K2XA	"	227,504	351	72	167
K2SHZ	"	171,600	271	52	148
KB2WN	"	143,352	284	46	135
KR2J	"	135,136	296	43	121
WA2VEE	"	110,967	281	35	106
K2RD	"	109,005	211	61	135
W2KHQ	"	97,636	227	47	107
W2PHT	"	97,439	334	38	101
KB2ZQ	"	74,750	208	31	94
KA2PQ	"	74,292	210	29	84
KA2MFY	"	71,240	219	35	95
KT2M	"	65,637	204	34	83
KD2BW	"	61,523	191	36	83
KK2B	"	54,924	153	43	93
NC2Q	"	50,456	175	35	86
W2FU	"	49,950	153	37	84
NA2Q	"	44,268	152	35	79
W2TZ	"	43,296	110	31	57
NM2V	"	31,080	143	28	56
W2WD	"	24,462	114	25	56
KT2D	"	19,488	87	27	60
W2PHW	"	12,544	87	20	36
K2TM	"	11,895	64	18	43
WA2UDT	"	11,711	80	9	40
WA2FCS	"	4,704	36	18	30
W2NC	"	2,124	24	16	20
W2KEE	28	4,020	48	11	

**TOP SCORES**

WORLD		USA	
Single Op	All Band	Single Op	All Band
PJ2FR	9,613,615	K1AR	4,007,648
P43A	9,441,850	K1DG	3,030,797
8R1Z	9,268,467	W3BGN	3,003,235
EA9IE	6,409,300	N2LT	2,468,575
J87DX	5,826,912	W2RQ	2,365,251
Y24UK	5,594,564	W3GRF	2,715,125
6Y3M	5,308,266	K3ZO	2,612,752
OH1RY/C56	4,315,806	N2FB/3	2,321,560
CE3FIP	4,019,520	KE2C	2,211,978
K1AR	4,007,648	AK1A	2,181,780

28 MHz		28 MHz	
TI2KD	549,275	KG1E	71,688
LU1E	548,488	WC4E	30,456
CX4HS	528,110	KR9G	13,052
LU1FOW	289,616	KR1R	12,083
LU4MEE	182,268	K7QQ	10,726
YV5JEM/6	155,316	WB5CRG	10,120

21 MHz		21 MHz	
TI2CF	1,341,642	K2EK	851,196
KG6DX	1,262,655	N8II	729,964
LU2FDR	1,028,170	W6YA	490,314
CE6EZ	1,009,355	KE5FI	470,444
YT3L	934,486	W5VX	396,582
K2EK	851,196	K6SVL	347,996

14 MHz		14 MHz	
YZ9A	1,286,126	K1OX	1,131,328
G3FXB	1,217,178	K1UO	878,472
K1OX	1,131,328	NB2P	702,966
LU6ETB	999,192	KA1GG	565,136
OH8OS	987,408	K2HFX	553,660
DL8NQ	895,685	K3ZJ/4	484,700

7 MHz		7 MHz	
VP2ET	850,795	W7RM	243,270
TI2CC	823,072	K6HNZ	162,800
J87A	578,060	KV0Q	89,232
IT9GSF/G9	335,088	KA5W	70,567
JA5BJC	310,985	NB1G	60,424
CE8ABF	304,400	W8SH	52,164

3.8 MHz		3.8 MHz	
VE3BMV	383,040	W6RJ	135,340
WB7RFA/V2A	339,404	W5MKB	75,060
T32AF	222,403	WB2ITR	66,256
J87J	212,403	N8ATR	56,500
YW5A	200,261	N6AR/4	49,728
4N3E	162,828	K2RR/1	46,640

1.8 MHz		1.8 MHz	
LZ2CJ	89,902	AA1K/3	24,633
VE3NNR	47,390	K1ZM	20,502
KH6CC	45,984	N0XA	11,880
IO4YSS	26,794	K5UR	11,760
VE3OME	26,375	AA4MM	6,705
AA1K/3	24,633	W2FCR	3,751

Multi-Op		Multi-Op	
Single Transmitter	All Band	Single Transmitter	All Band
P44B	11,315,931	KX4S	4,603,120
ISNPB	9,689,750	N4WW	3,820,452
ZY5EG	8,982,698	K3TUP	3,816,676
KH6XX	7,632,357	K4VX/0	3,736,791
KP4BZ	6,981,152	W8UA	3,368,700
YZ1EXY	6,877,504	KS9K	3,354,678

Multi-Op		Multi-Op	
Multi-Transmitter	All Band	Multi-Transmitter	All Band
HC8X	21,995,053	N2AA	10,838,871
VP2VCW	19,589,570	W3LPL	8,164,548
VP9AD	18,029,220	N5AU	7,745,040
VP2MW	15,142,012	NR5M	6,010,683
N2AA	10,838,871	AD8P	5,592,856
IO3MAU	9,556,680	N4RJ	5,135,920

K3ZJ/4	14	484,700	1115	36	112
N4MO		392,821	937	33	109
KV4P		323,180	849	30	100
WB4FLB		234,112	685	28	90
W4ZTW		102,608	345	26	80
W4JD		39,360	170	21	61
KN4B		38,584	153	24	67
WB4VQO		29,432	122	15	41
W4WMO		11,058	67	15	42
K4OD		9,792	72	15	33
W6AP		6,076	51	14	35
W4YN		615	15	7	8
K4RIG	7	48,513	171	26	77
K4LTA		26,292	118	25	59
N04Y		25,800	138	23	52
W4MGX		12,928	74	20	44
N6AR/4	3.8	49,728	199	25	71
KA2CDJ/4		10,788	78	15	43
W4PZV		8,512	66	17	39
AA4MM	1.8	6,705	66	11	34
W4UW		1,375	30	7	18
K4XO		1,012	21	10	13

K13L/5	A	873,722	1034	92	215
K5DX		780,213	752	108	263
K5BDX		562,320	625	98	232
N15M		379,161	490	83	196
KG0E		259,716	350	85	191
K5FUV		253,402	371	74	183
K5LP		179,154	289	79	143
KC5UC		173,880	302	76	154
N5UA		135,915	249	72	133
KV5E		132,268	258	71	130
N5AW		98,365	200	64	127
WASIVX		92,800	238	46	99
N3BB/5		77,454	244	40	77
W50SR		70,022	176	58	99
W51YR		63,168	163	44	97
N5EPA		60,030	159	52	86
W50B		58,286	146	53	98
K2SCJ/5		38,760	121	45	75
W5EJ		19,481	97	22	55
KA5UDL		180	17	8	7
WB5CRG	28	10,120	85	13	31
KE5FI	21	470,444	1011	33	128
W5VX		396,582	880	32	125
			(Opr. NASC)		
AD5Q		67,877	237	26	77
K5TSQ	14	275,880	598	36	126
W5FO		57,195	222	25	68
W5RO		9,500	67	14	36
KA5W	7	70,567	216	31	88
WBSYLT		6,669	69	14	25
K5UR	1.8	11,760	128	19	37

KM6B	A	1,520,532	1510	115	246
N6VI		853,113	1023	114	215
K6EID		924,092	963	108	230
W6PU		763,587	917	100	197
W6FSJ		361,899	542	87	150
N6MB		359,950	550	75	155
N6ICV		319,324	589	75	119
W7CB/6		316,318	519	75	143
W6BSY		301,392	433	86	166
W6KLY		265,104	385	89	163
K6DR		210,156	356	80	131
N6DJ		198,919	405	68	113
KG7O		195,692	310	85	156
N8BJO/6		185,079	356	72	119
K6DT		164,650	323	53	125
K8BGG		163,410	315	65	130
K6SJK		153,266	293	76	121
N6OU		123,760	267	65	115
K6HII		122,060	261	64	106
WB6FDQ		121,852	265	59	105
W6FCF		105,150	246	52	98
W6HT		96,048	297	46	70
N6ADK		94,300	210	60	104
W6DAT		86,877	160	71	126
W6AUFY		82,169	231	46	81
W6VG		81,482	219	43	88
N6JM		80,370	209	55	86
W6GKT		78,276	180	47	85
KE6KT		75,705	203	58	89
KG6AR		74,980	209	54	90
K6PU		73,964	167	62	102
W6SZN		69,230	221	45	70
N6UW		65,844	198	52	72
K6SSX		63,665	224	40	67
N6BFE		60,957	193	45	72
AA6EE		59,760	167	52	92
W6ATLA		58,424	160	45	89
K6OS		52,680	153	44	76
K2ITG/6		49,166	149	50	72
W6WB		49,147	150	43	76
W6AKS/6		48,204	148	53	64
KEUO		33,488	115	36	68
W6EJL		31,714	114	39	62
KA6L/6		30,959	135	37	46
N6EK		30,702	130	34	52
N6GG		28,820	96	42	68
W6BYH		28,560	102	43	62
NC6H		25,560	113	42	53
W6EG		25,256	125	32	45
W6BZE		23,751	100	33	54
K6DMN		22,630	111	29	44
K6LRN		20,140	98	32	44
K6BHW		16,536	78	32	46
N6DTB		15,057	83	24	39
WA6JRB/6		14,553	73	35	42

W6YMB		14,400	80	26	38
W6YO		13,200	66	25	50
N6OT		10,919	66	29	32
W6IV		10,836	68	28	35
N6JMV		10,710	67	28	35
W6JZ		9,890	74	26	26
W6NNV		7,784	50	22	34
NS6B		7,392	51	23	33
KG6IP		7,371	45	26	37
W6MVF		7,296	53	25	35
KD6LV		6,096	45	17	31
W6QDE		4,968	39	21	25
W6BVM		4,092	33	18	26
K6YT		2,400	30	15	17
NE6I		2,139	27	14	17
W6YVK		640	27	4	4
W6YA	21	490,314	1207	36	108
K6SVL		347,996	1001	32	89
NG6W		75,205	295	25	64
N6HNY		14,450	104	18	32
N6HR	14	114,950	339	30	91
W6FRZ		67,450	247	27	68
W6DK		65,472	256	25	63
W6HXW		35,174	142	25	61
NM6L		23,205	129	21	44
W6GLD		13,968	71	22	50
N6LTN		10,816	95	18	34
W6BJC		1,003	20	9	9
			(Opr. KV6W)		
K6HNZ	7	162,080	886	28	52
W6BJS		7,740	89	15	28
W6RJ	3.8	135,340	567	27	74



## SINGLE OP ZONE WINNERS

Zone Call	Score				
1 AL7CQ	482,450	21	RF0FWW	1,895,674	
2 VE8RCS	236,829	22	DF2RG/4S7	484,155	
3 KM6B	1,520,532	23	No Entry		
4 W0JLC	1,363,635	24	VS6CT	163,818	
5 K1AR	4,007,648	25	JH7LRS	1,773,772	
6 XF2ADY	186,333	26	No Entry		
7 TI2CF	1,341,642	27	KG6DX	1,262,655	
8 J87DX	5,826,912	28	YB4FW	562,770	
9 PJ2FR	9,613,615	29	VK6NAK	150,765	
10 OA4SS	894,075	30	VK2KL	379,324	
11 PP2ZDD	1,628,805	31	WB6FCR/KH6	3,057,162	
12 CE3FIP	4,019,520	32	ZM8OY	382,044	
13 LU1BR	2,373,693	33	EA9IE	6,409,300	
14 Y24UK	5,594,564	34	No Entry		
15 IO6FLD	2,445,490	35	OH1RY/C56	4,315,806	
16 UB5MZ	1,069,348	36	9U5JB	2,841,720	
17 UW9WK	876,537	37	No Entry		
18 UZ9UZ	156,793	38	ZS3IL	1,689,395	
19 RF0FA	552,258	39	3B8DB	213,815	
20 YO9VI	284,200	40	TF3CW	162,960	

KA0TMW	32,485	149	29	60
W8FO	28,912	106	32	72
K0UKO	24,605	102	33	62
A60X	23,250	98	38	55
K0JL	20,915	91	35	54
W0NGB	19,671	87	28	55
W0PPF	17,580	131	20	54
W0FSJ	16,356	63	31	63
AK0M	6,102	51	20	34
N1WE	257,175	694	29	98
N0BSH	64,640	224	23	68
N10G	27,552	119	21	63
N0DI	11,500	79	14	36
K0RWL	182,625	514	32	93
N2BVJ/B	56,593	232	24	65
KV00	89,232	380	31	73
K0BU	42,400	155	31	69
K0XA	46,410	174	26	76
N0XA	11,880	97	16	39
K0CS	1,357	29	9	14

### ALASKA

AL7CQ	14	482,450	1450	37	100
NL7L	73,516	348	26	60	
KL7RA	7	157,157	734	28	63
KL7AF	1.8	1,820	64	7	7

### ANGUILLA

VP2ET	7	850,795	2295	31	124
			(Opr. K5RX)		

### ANTIGUA

W87RFA /V2A	3.8	339,404	1287	26	96
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### BAHAMAS

WSWNU /C6A	A	1,687,437	2919	77	192
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### BERMUDA

DF9ZP /VP9	A	892,980	1978	58	140
VP9LD	3.8	6,024	123	8	16

### CANADA

VE1NG	A	1,443,456	1510	90	294
VE1CBE	839,540	1165	68	192	
VE1CGV	234,962	478	54	128	
VE1BNN	210,638	408	18	76	
VE1AGZ	2,581	30	11	18	
VE1LI	92,956	679	16	52	
VE1AIH	68,619	348	19	70	
VE2AYU	801,975	1069	78	211	
VE2FJH	145,299	472	34	85	
VE2PJ	238,204	723	23	90	
VE2MR	27,158	146	20	54	
VE2FU	122,006	499	27	79	
VE20V1	3,906	56	3	6	
VE60U/3	A	3,161,239	2734	119	320
VE3XN	2,118,869	1841	116	327	
VE3EXA	170,177	396	41	110	
VE3EZX	23,814	90	33	65	
VE2AEJ/3	576	14	7	9	
VE3NBE	241,839	708	24	93	
VE3NYT	3,268	33	13	25	
VE3BMV	383,040	1629	25	89	
VE3NRR	47,390	672	15	21	
VE30ME	26,375	526	10	15	
CH4AIY	A	151,043	436	40	35
CH4AKN	16,944	157	13	35	
VE5RA	A	601,445	973	87	160

VE5AFY	158,760	1257	25	38
VE5ADA	97,281	490	20	61
VE5XS	73,510	324	24	61
VE6VV	44,064	273	25	56
VE7CWN	83,426	318	40	78
VE7FC	61,732	237	33	59
VE7HMS	39,449	151	41	62
VE7IQ	7,686	54	27	36
VE7IN	294,314	1166	29	72
VE7EIK	219,100	865	30	70
VE7GDX	21,976	110	24	58
VE7JW	15,283	210	15	14
VE8RCS	236,829	1000	23	66
		(Opr. V01PJ)		

### COSTA RICA

TI2ANL	A	220,780	742	53	80
TI2KD	28	549,275	1944	28	99
TI2CF	21	1,341,642	3491	31	128
TI2SAJ	14	9,176	134	12	19
TI2CC	7	823,072	2456	31	106

### DOMINICAN REPUBLIC

H8WRE	A	4,635	71	19	26
H8LC	14	132,686	1194	29	90

### GUATEMALA

TG9VT	A	695,544	996	90	202
TG9XVZ	7	2,380	69	6	11

### HAITI

HH2WL /V2A	A	542,590	1732	45	100
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### HONDURAS

HR1FC	3.8	11,592	134	11	31
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### JAMAICA

6Y3M	A	5,308,266	5016	126	356
		(Opr. KT3M)			

### MEXICO

XE2ADY	A	186,333	831	61	72
XE2MX	7	54,646	251	34	55
XE2PQ	7	84,544	633	19	45
XE1VIC	3.8	112,192	878	19	45

### PANAMA

HP1XKR	A	59,160	345	45	75
HP6AHF	7	7,350	74	19	30
HP2BMO	14	5,246	65	12	25

### PUERTO RICO

WP4L	1.8	3,770	70	8	26
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### ST. VINCENT

J87DX	A	5,826,912	4619	126	420
		(Opr. K1KI)			
J87A	7	578,060	1694	32	108
		(Opr. N4PN)			
J87J	3.8	212,403	965	22	79
		(Opr. K4UEE)			

### U.S. VIRGIN ISLANDS

0A1A /KP2	A	89,376	382	40	72
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ZS6P	28	64,480	272	21	59
ZS6G	7	164,154	513	30	79
ZS6PT		27,805	149	25	42

### ZIMBABWE

Z21JE	A	108,032	298	42	86
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### ASIA

#### HONG KONG

VS6CT	A	163,818	554	69	102
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#### INDIA

VU2ZAP	14	30,415	159	26	51
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#### ISRAEL

4X5NM	21	275,994	839	32	82
		(Opr. 4X6NM)			

#### JAPAN

JA1YFG	A	1,516,626	1608	116	211
		(Opr. JL18LW)			

JF1SEK	462,112	725	83	141	
JK1KNE	451,486	666	93	145	
JG1RKN	281,112	481	79	125	
JA1YAG	125,538	320	60	87	
JA1BNW	95,493	245	52	87	
JH1NHY	41,904	160	41	56	
JA1IRO	10,302	68	25	26	
JN1ENK	8,460	74	21	24	
JH1AWN	2,576	38	11	12	
JO1MCC	1,825	27	13	12	
JA1AAV	86	7	3	4	
JO1NZT	19,032	121	23	37	
JA1MYW	18,204	106	23	40	
JM1SMY	6,552	63	15	24	
JA1AAT	2,816	33	12	20	
JO1XDC	1,425	16	10	15	
JR1OYL	1,190	24	7	10	
JA1FO	60	4	2	3	
J11CBF	598,560	1428	38	107	
JO1HSX	205,370	665	36	74	
JK1KRS	54,180	234	30	54	
JF1UMQ	42,573	222	26	43	
JH1UUT	36,312	195	26	42	
JR1LGG	29,169	186	23	40	
JA1JUG	22,400	125	24	40	
JP1SRG	15,953	111	21	32	
JA1YAC	6,800	58	15	25	
JF1OWO	5,814	57	16	22	
JA1GYO	4,995	45	18	19	
JR1BPO	2,872	38	4	14	
JA1KTH	2,673	37	15	12	
JN1TEO	420	10	6	9	
JO1RYX	351	9	7	6	
JH1NXU	204	17	3	1	
JF1RVB	147	7	4	3	
JE1TTO	6	1	1	1	
JK1MAZ	538,965	1299	37	108	
JH1AEP	375,264	893	37	107	
JH1IED	96,390	255	37	98	
JA1NLX	86,860	306	30	71	
JA1BUN	25,326	138	25	42	
JA1BUI	23,760	141	24	36	
JA1GO	18,792	83	27	54	
JA1WOW	15,180	85	27	39	
JL1KRA	8,400	75	19	23	
JH1MTR	8,184	73	19	25	
JO1ABC	6,300	65	19	26	
JA1JBP	3,712	40	11	21	
JP1BPG	3,706	49	15	19	
JJ1JHJ	1,324	18	12	12	
JA1OYB	1,255	33	15	15	
JH1FJK	64	4	4	4	
JH1YDT	112,623	428	30	63	
JE1KDM					
/8	324	14	5	4	
JA1XAF	35,392	194	28	36	
JA2BNN	201,292	396			

JABFL	13,878	93	21	33	C310F	5,884	42	23	46	OZ1ZE/A	16,715	122	36	101	DL3PN	25,920	133	24	56	Y54XL	13,695	126	23	60
JABCIY	22,718	125	28	46	C31MC	4,949	79	16	33	OZ1NF	13,095	104	24	73	DJ4YV	12,490	80	23	37	Y47WJ/P	12,551	104	22	55
JABGZ	204	9	7	5	<b>AUSTRIA</b>					OZ1ZACB	11,618	145	17	57	DL8AAE	8,762	70	15	31	Y21ID/A	11,820	148	14	54
<b>JORDAN</b>					OZ1A1A	2,624	57	9	23	DL8NQ	895,685	2222	37	120	DF7GK	46,197	233	21	66	Y66YF	10,545	91	27	45
JY9RL	5,740	49	12	29	OZ1AIR	3,900	55	12	27	DL1KCI	41,340	284	19	59	DL1KCI	32,802	202	19	58	Y22DM/A	9,504	60	27	45
<b>KOREA</b>					OZ1XST	2,784	56	9	23	DL4RX	20,604	119	20	48	DL3AH	16,128	153	21	43	Y49XN	8,525	159	11	44
HL2AM	81,120	422	38	66	OZ1CFV	216	6	6	6	DL3AF	5,109	90	10	29	DLK8J	2,442	55	8	29	Y330N	7,847	136	15	44
HL1ABR	8,621	88	15	22	OZ1BTE	454,528	1407	32	102	DK8FD	2,442	55	8	29	DK8JF	5,109	90	10	29	Y26WM	7,812	52	22	41
<b>SAUDI ARABIA</b>					OZ1BCT	71,505	405	27	78	DL4RBR	2,442	55	8	29	DK8JF	5,109	90	10	29	Y47SF	7,296	64	18	39
HZ1HZ	684,913	904	74	207	OZ1FTE	7,722	103	10	44	DL4RJR	35,604	270	18	68	DK8NG	132,613	817	22	79	Y540L	6,426	58	19	32
<b>SRI LANKA</b>					<b>ENGLAND</b>					DL8LW	65,910	721	15	63	Y24HB	6,380	82	15	40					
DF2RB /4ST	484,155	801	78	187	<b>BALEARIC ISLANDS</b>					DK8NG	132,613	817	22	79	Y22HF	6,350	55	24	26					
<b>U.S.S.R.</b>					EAGFD	311,112	868	56	176	DL8LW	65,910	721	15	63	Y63YF	5,628	57	13	29					
<b>ARMENIA</b>					EAGPQ	137,376	472	35	157	DL8LW	65,910	721	15	63	Y59ZF	5,406	60	19	32					
UG6JJ	1,560	40	2	11	EAGLA	81,507	461	30	71	DL8LW	65,910	721	15	63	Y32DN	5,390	40	22	33					
UG6GAW	17,202	140	10	37	EAGOA	51,216	582	24	64	DL8LW	65,910	721	15	63	Y21XC	5,341	59	16	33					
<b>ASIATIC RUSSIA</b>					EAGPK	10,050	118	12	38	DL8LW	65,910	721	15	63	Y23K/A	5,324	43	18	26					
UW9WK	876,537	1018	95	242	<b>BELGIUM</b>					OH2PM	959,850	1322	97	308	Y24ND	4,554	39	21	25					
RU9WA	632,213	845	74	223	DN4AMR	689,545	1321	58	149	OH2LU	233,836	605	54	158	Y5ANL	4,059	45	21	32					
UA9MR	544,275	819	85	210	DN4AVG	56,840	300	31	85	OH2BJG	106,755	371	38	127	Y42HA	3,828	80	12	32					
UV9WW	162,027	407	39	114	DN4KST	246,285	788	30	87	OH7NW	58,692	270	34	112	Y42WB	2,485	41	10	25					
UV9UWM	70,784	311	39	73	DN4ZZ	21,700	157	16	42	OH5JJ	47,085	236	35	94	Y250F/A	2,021	35	13	30					
UA9CE	18,971	115	20	41	DN4XG	28,148	256	16	46	OH6YF	33,600	169	30	60	Y72ZG	1,269	25	12	15					
UA9FZ	15,422	187	17	38	DN4KA	42,966	270	12	54	OH2LP	22,776	137	28	76	Y440F	1,015	31	8	21					
UV9WR	5,978	51	19	30	<b>BULGARIA</b>					OH1EB	18,360	121	25	47	Y45VJ	528	22	6	16					
RA9QA	4,171	42	11	32	LZ1CW	299,871	673	62	171	OH9PN	14,718	108	21	45	Y26YM	528	14	10	14					
UA9CRR	58,826	347	16	47	LZ1HA	106,964	274	53	139	OH2FS	12,988	191	28	40	Y35TE	9,168	99	15	33					
UA9GA	18,630	152	12	25	LZ1KBL	10,614	113	26	66	OH1PY	10,540	76	20	42	Y25OE	3,388	37	16	28					
UA9WB	14,726	142	12	25	LZ1QV	9,516	80	19	42	OH5QY	7,645	106	15	40	Y39TF	1,820	57	8	20					
RA9UAD	8,550	225	14	24	LZ1RZ	4,257	41	15	28	OH8LP	6,400	100	15	35	Y24SG	30,537	174	21	60					
UA9XSJ	3,340	61	6	14	LZ22A	4,477	53	14	23	OH2BR	462,985	1290	35	120	Y23LG	6,705	55	17	28					
UZ9UZ	156,793	864	22	69	LZ2RS	115,362	472	31	86	OH8VJ	323,584	960	32	96	Y36SG	5,922	50	14	28					
UA9FAR	35,926	210	18	53	LZ1NS	71,638	339	26	60	OH2BMP	13,884	125	15	30	Y23DL	442,068	1474	36	96					
UA9MA	484,155	1321	36	109	LZ1YE	16,480	92	29	51	OH5RZ	6,825	105	18	47	Y320C	20,468	821	34	98					
UA9XR	175,373	611	30	77	LZ2BE	131,560	787	28	87	OH8OS	987,408	2775	35	109	Y23DG	65,856	293	26	72					
UA9QO	18,448	153	25	50	LZ2DU	6,764	179	9	6	OH8PF	779,086	2104	37	117	Y26KN	33,132	269	17	42					
RW9UR	41,109	261	17	54	LZ1BJ	80	10	2	6	OH1AF	730,296	1942	38	124	Y54WE	7,744	78	12	39					
UA9SF	5,568	83	10	13	LZ2CJ	89,902	993	15	64	OH1AA	659,680	1829	36	104	Y23ZL	5,480	80	12	28					
UA9OJT	29,464	206	13	45	<b>CZECHOSLAVAKIA</b>					OH8OS	987,408	2775	35	109	Y31ZE	4,309	49	13	18					
UW9SW	752	21	6	10	OK2FD	2,001,774	2215	96	330	OH1AA	659,680	1829	36	104	Y32WH	2,952	64	8	28					
RA9FA	552,258	1381	73	116	OK2RU	774,872	1107	90	271	K8MN /OHZ	577,752	1590	36	116	Y63VN	969	27	8	17					
UW0CF	117,038	307	52	87	OK1AJN	319,500	693	73	211	OH2WJ	270,018	820	34	105	Y73XH	713	21	7	16					
UA9ADO	38,038	324	29	48	OK3YCA	140,238	381	53	136	OH3JO	195,510	1035	28	73	Y49RO	12,939	227	10	47					
UA9SG	48,930	420	20	50	OK1KZ	121,038	522	39	136	OH8LQ	118,170	746	28	70	Y24YH	10,584	131	11	45					
UA9OF	37,092	276	21	45	OK2ABU	115,740	431	41	139	OH2BD	51,825	292	25	50	Y54VA	6,477	57	12	39					
UA9SS	57,312	353	21	51	OK1EP	104,016	260	53	144	OH2BYS	45,045	230	27	64	Y46KF	132	11	3	9					
UA9FEP	29,568	165	25	43	OK1BB	74,543	311	47	114	OH1AM	12,144	159	13	35	Y41RH	3,904	93	4	29					
UA9R	86,436	565	25	59	OK2SPJ	51,972	232	36	86	OH6CD	10,542	185	12	30	<b>GREECE</b>									
UA9SR	42,918	368	21	48	OK1DBM	43,884	121	55	83	OH9UW	285	13	5	10	SV1PL	136,800	468	45	126					
UW9CW	10,092	98	24	34	OK1AOT	42,506	180	52	86	OH9JR	27,528	169	22	71	SV1MO	17,875	211	13	52					
UA9FEO	2,680	100	10	10	OK3FON	41,664	141	44	80	OH2HE	3,652	67	11	33	SV1RP	10,564	274	9	39					
UA9ZDD	17,894	300	11	12	OK1DPC	39,250	284	26	99	OH3UU	13,872	162	13	55	<b>HUNGARY</b>									
UA9FDX	6,354	145	6	12	OK1DIX	33,876	320	18	66	<b>FRANCE</b>					HA8MM	920,040	1238	103	271					
<b>AZERBAIJAN</b>					OK29HO	30,016	185	28	84	F68EE	2,873,136	2214	118	385	HG19HB	805,920	1117	96	249					
RD6DJ	121,429	545	18	65	OK3CTX	22,468	130	21	61	F68AJ	1,047,188	1197	86	303	HA8XX	230,544	534	60	158					
UD6DR	1,200	20	6	18	OK3KJ	21,008	196	31	70	F8WE	674,240	792	57	203	HA4XX	182,466	532	59	159					
<b>GEORGIA</b>					OK2KX	20,586	161	27	67	F68ZU	648,261	1317	53	118	HA8KV	38,907	187	43	96					
RF0FW	1,892,109	1764	100	257	OK3YK	17,286	166	20	47	F68AW	144,102	513	43	98	HA4XG	17,428	138	23	50					
RF6AI	1,288	20	8	15	OK3KH	14,964	234	13	45	F68FN	41,724	173	36	76	HA1UC	6,048	76	15	39					
UF6VB	113,129	509	17	66	OK1MH	14,798	154	19	62	F68ML	33,702	114	39	84	HG5AA	23,450	221	18	49					
UA3IT	65,148	288	24	65	OK2PCL	11,623	87	25	34	F68CL	19,840	134	21	59	HG8KC	12,800	139	18	32					
UF	48,348	304	15	53	OK2BXA	9,333	140	39	83	F68V	4,428	74	14	40	HA8HQ	4,056	73	11	28					
RF6FR	65,148	288	24	65	OK3TJ	8,694	104	15	39	F68CP	15,163	112	13	46	HA5HH	4,889	124	11	38					
<b>KAZAKH</b>					OK1ZTW	7,198	80	19	40	F68JS	116,608	369	28	100	HA9RE	273,130	1342	29	101					
RL7GBS	7,104	90	14	23	OK1ANS	4,028	52	17	36	FF6LCT	363,770	1510	28	82	<b>ICELAND</b>									
UL7CT	62,652	257	28	64	OK1AMB	2,698	26	15	23	F90K	54,048	332	18	78	TF3CW	142,960	943	24	56					
UL7TT	99	8	3	8	OK2BBI	22,274	185	18	56	F6FYD	43,932	298	23	61	<b>IRELAND</b>									
<b>KIRGHIZ</b>					OK3CM	16,500	129	20	46	F6KJU	19,654	197	17	45	EI4DW	155,244	572	45	159					
UM9MRC	3,276	72	8	13	OK2BZR	39,757	201	25	58	F9XE	48	4	2	2	EI10H	112,185	653	19	66					
UM9MIG	14,820	200	11	27	OK2XA	35,604	142	28	64	F68BJ	75,755	516	22	87	EI1AA	559,797	1940	31	102					
UM9M	22,400	197	11	39	OK2BSG	31,320	136	27	63	F68V	29,680	282	10	43	EI7CC	34,881	237	20	52</					

<b>JERSEY ISLAND</b>			SP6AYP	2,960	29	14	26	EA5FCO	76,270	279	42	103	<b>WALES</b>																						
GA4TXB	A	9,798	70	27	44	SP3GEM	3.8	93,480	682	22	73	EA5CXL	71,050	191	50	125	EW4BLE	A	3,221,380	2549	105	365	<b>KALININGRAD DISTRICT</b>												
<b>LUXEMBOURG</b>			SP3GXH	10,080	245	5	37	EA5FCH	60,776	224	45	97	EA5GHT	44,838	150	32	74	RA2FC	A	120,791	654	38	101	<b>KARELIA</b>											
LX1EA	A	332,618	772	66	220	SP9HML	7,278	141	6	37	EA3DZJ	44,802	238	35	79	UA2EC	3.8	12,195	221	8	37	<b>LATVIA</b>													
LX1GQ	"	197,664	629	49	164	SPALXE	2,480	79	5	26	EA7EHE	41,776	208	32	80	<b>RATNA</b>			A	261,790	762	60	175	<b>LITHUANIA</b>											
NBFOT	"					SP7MUZ	1,421	48	5	24	EA4BJD	35,520	200	28	92	UG2GLW	A	88,057	313	46	127	<b>MOLDAVIA</b>													
/LX	"	31,476	176	16	48	SP9EEE	940	48	4	16	EA5FCS	27,984	131	39	67	UQ2GAB	A	15,744	285	10	38	<b>UKRAINE</b>													
LX2QR	"	20,032	213	16	48	SP3NGB	910	73	3	7	EA2BMA	26,983	118	40	81	UQ2BGL	A	60,736	300	26	76	<b>ESTONIA</b>													
<b>MONACO</b>			SPSINO	11,825	204	9	40	EA3EMY	26,860	207	20	65	EA4EJC	11,571	116	17	40	UQ2ZG	A	4,400	48	14	26	<b>BYELO RUSSIA</b>											
3A5F	A	66,740	370	41	101	SP9DH	80	9	2	8	EA5DWO	26,096	171	27	85	UQ2GCP	3.8	3,780	116	6	29	<b>EUROPEAN RUSSIA</b>													
<b>NETHERLANDS</b>			<b>PORTUGAL</b>					<b>ROMANIA</b>					<b>SWEDEN</b>					<b>SWITZERLAND</b>																	
PA8AGA	A	1,020,970	1587	88	298	CO8NH	A	2,654,405	2537	100	312	EA3NA	23,190	259	68	155	HB9AAA	A	481,320	913	58	152	<b>YUGOSLAVIA</b>												
PA2SWL	"	228,060	709	45	165	CT4KQ	"	912,396	992	75	203	EA2GZM	22,866	105	30	52	HB9CWA	"	63,928	230	43	79	YU3VM	A	545,436	970	81	197	YU3QI	"	262,766	507	80	194	
PA0DUO	"	161,644	338	71	180	CT1AUW	"	379,312	1100	46	111	EA1BZI	18,601	115	27	62	HB9CDB	"	36,332	135	45	81	YU3QF	"	30,081	170	32	79	YU3GJ	"	30,081	170	32	79	
PA3AIK	"	111,150	399	37	93	CT1ATF	"	104,368	253	54	122	EA7EVL	16,600	127	22	61	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA0KDM	"	58,724	229	31	75	CT1AIV	"	88,305	279	33	95	EA5EFV	16,524	112	30	51	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA0ZM	"	35,862	210	33	96	CT1AIE	"	88,305	279	33	95	EA7DXR	15,145	108	23	46	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA3AM0	"	16,280	158	21	53	CRD7J	"	72,468	266	41	81	EA3EXW	10,430	80	21	49	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA3CZP	"	16,038	127	22	32	CT1AE8	"	65,486	243	43	94	EA4CCK	8,100	53	17	43	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA2REH	"	12,558	94	27	42	CT1AIV	"	51,984	185	48	96	EA4DET	7,701	115	14	37	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA0LIE	"	5,676	59	26	40	CT1IBFN	"	13,628	154	27	49	EA4DAN	4,582	36	25	33	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PI5PVI	2B	2,352	34	13	29	CT1IBXG	"	13,213	85	27	46	EA3ECZ	28	25,272	197	19	53	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21
PA3AAN	"	241,256	942	27	79	CT1BFN	"	12,600	109	21	42	EA1CON	22,649	156	18	53	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA0QX	"	28,620	277	14	31	CR5DGG	"	11,830	129	19	51	EA4DAE	21,912	128	23	60	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA2PDN	"	4,064	55	10	22	CT1ICHU	"	4,032	46	18	30	EA4CFM	17,301	106	22	57	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA0RRS	7	4,956	60	12	47	CT1CIDIA	28	51,680	364	18	62	EA5FCJ	16,182	131	18	44	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
PA2TMS	3.8	151,956	1445	14	70	CT1CIUT	"	9,308	103	13	39	EA3EYD	14,198	102	18	44	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
<b>NORWAY</b>			<b>PORTUGAL</b>					<b>ROMANIA</b>					<b>SWEDEN</b>					<b>SWITZERLAND</b>																	
LA4YW	A	63,270	220	45	145	Y09VI	A	284,200	630	59	173	EA5DIT	5,661	46	14	31	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA2IZ	"	31,302	142	37	74	Y04HP	"	198,016	643	62	162	EA7FXW	5,535	57	17	34	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA6QK	"	24,282	186	25	89	Y04KAY	"	166,413	457	60	161	EA4DMB	5,265	58	18	21	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA4WBA	"	15,073	218	21	80	Y05AVN	"	154,752	500	58	150	EA7FOW	4,536	46	12	24	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA1XDA	"	13,244	132	19	67	Y09CBZ	"	86,574	476	40	101	EA2DJC	10,260	80	20	25	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA2TY	"	6,785	100	19	40	Y05AAT	"	64,942	268	53	104	EA5DLX	8,470	67	19	38	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA4LN	"	5,500	39	22	33	Y05BQ	"	41,880	231	42	78	EA4CPI	3,269	38	11	21	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA8NBA	"	2,236	65	19	47	Y07APA	"	28,421	172	31	66	EA3AOC	14	518,518	1508	35	108	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21
LA8DY	2B	13,005	204	11	38	Y09DIA	"	18,480	205	27	50	EA3AUC	163,618	919	24	67	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA3KBA	"	7,524	201	9	27	Y09DZH	"	13,300	147	25	45	EA1BFI	10,350	101	12	34	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA9ZY	21	132,632	469	30	80	Y03BTC	"	13,202	136	21	61	EA2DJD	10,260	80	20	25	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA6WEA	14	236,544	985	30	82	Y03DCO	"	12,994	81	27	62	EA5LX	8,470	67	19	38	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA6SCA	"	1,320	56	4	18	Y06AJU	"	6,272	120	10	39	EA4CPJ	3,269	38	11	21	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA8DY	"	49,118	329	20	62	Y05AUU	"	4,389	44	11	46	EA3AQC	14	518,518	1508	35	108	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21
LA2ZN	"	31,320	271	26	46	Y06BLU	"	1,988	52	9	28	EA3AUC	163,618	919	24	67	HB9CGL	"	24,702	152	26	43	YU3OR	"	11,174	87	31	50	YU1PQI	"	2,294	22	16	21	
LA1HCA	"	19,840	160	17	45	Y04JG	28	1,160	28	6	14	EA3AUC	163,618	919	24	67	HB9CGL	"	24,702	152	26	43													



FRENCH OCEANIA
F0BLG A 128,205 471 48 57
GUAM
K6GDY 21 1,262,655 3043 37 104
HAWAII
WB6FRC /KH6 A 3,057,162 3680 104 178
INDONESIA
YB4FW A 562,770 986 61 134
KERMADEC ISLANDS
ZM80Y A 382,044 878 67 89
MARSHALL ISLANDS
KX6DS 1.8 6,096 100 11 13
NEW ZEALAND
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PHILIPPINES
KA3DRR /DV2 A 596,743 1274 68 95
SOUTH AMERICA
ARGENTINA
LU18R A 2,373,693 2494 104 233
BRAZIL
PP2ZDD A 1,628,802 2935 79 199
CHILE
CE3FIP A 4,019,520 3269 116 308

CE2BXN 14 386,121 1167 31 82
CE1BSV 7 57,196 276 27 52
CE8ARF 7 304,400 1038 29 71
CE3NR 7 38,624 201 22 49
CE2ENJ 2,860 49 12 10
COLOMBIA
WB2PDS /HK1 A 463,250 1561 36 73
HAWAII
WB6FRC /KH6 A 3,057,162 3680 104 178
INDONESIA
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KERMADEC ISLANDS
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MARSHALL ISLANDS
KX6DS 1.8 6,096 100 11 13
NEW ZEALAND
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PHILIPPINES
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SOUTH AMERICA
ARGENTINA
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BRAZIL
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CHILE
CE3FIP A 4,019,520 3269 116 308

KU4V 229,060 327 74 186
K50T1/4 219,300 307 76 182
N4XM 218,193 325 86 171
KA4EGW 212,352 331 71 166
WZ4Z 169,344 275 68 156
W4LVM 137,385 231 69 144
WS4E 109,564 226 63 133
W400 79,292 186 65 107
WA4LSM 61,849 93 15 36
N4TL 15,224 69 35 53
WK40 14,850 74 32 46
K84LN 10,812 93 15 36
WB4BBH 10,218 55 32 46
W4WJ 2,701 30 17 20
K5RVK 493,636 608 82 204
K5SDX 392,274 494 94 185
W85E 367,104 525 82 174
NWS5 302,220 541 57 150
K5DRW 300,000 447 70 169
K5BDA 10,384 75 17 42
N6ND 2,069,163 1624 140 307
W6TMD 1,518,876 1428 112 260
W6XJ 1,337,490 1194 129 257
K6LY 1,064,385 1195 98 217
W6VLD 917,038 1020 105 221
N6BL 726,576 800 103 220
W6BQPO/6 653,716 888 90 169
N6AW 648,974 630 113 226
W6BIP 621,550 730 96 214
K6BJK 550,480 698 95 185
K6AV 349,448 595 71 138
AJ6V 226,781 352 84 157
N6CCL 223,595 413 76 121
K6TO 196,830 310 86 157
W6DJY 183,288 348 57 111
KE6WL 111,000 223 65 120
N6IC 101,675 232 67 108
W6GAHF 77,616 172 61 107
N6EX 75,048 146 63 114
K1BT 33,835 130 41 60
N6GA 28,072 114 32 56
W6GNS 17,934 115 27 34
N6KTU 861,015 1048 96 209
N6C7K 560,595 733 89 192
K7OX 153,204 273 73 131
W6UA 3,368,700 1999 142 449
N8CX 1,721,340 1429 115 323
W8GWC 1,450,440 1106 120 339
K8BJN 999,220 1071 85 226
K8BPOW 312,125 924 84 191
K8BAM 42,560 244 25 39
K8S9K 3,354,678 2008 138 439
W8RE 1,813,920 1334 125 355
K8ML9 1,118,439 979 114 319
N8FS 504,094 630 95 212
K4VX/D 3,736,791 2149 145 458
K8VYV 767,052 965 105 193
K20C 668,792 736 92 236
K808 534,736 631 89 215
W80BOG 130,662 292 60 123
K80KK 100,320 232 57 103
K80CEH 68,199 183 39 88
BARBADOS
8P9AG 1,048,973 1674 78 203
CANADA
VE38VD 5,895,539 3793 141 472
VE3YO 5,349,456 3433 141 465
CH4ALO 799,659 2091 57 132
VE3JUT 581,880 2238 73 187
VE4AA 303,645 803 49 106
VE3JW 207,125 504 48 121
VE3FEA/M 1,392 46 17 21
MONTserrat
VP2MU 3,108,825 3456 93 276
PUERTO RICO
KP4BZ 6,981,152 5547 120 424
ST. LUCIA
AA4VK/J6L 836,198 2063 64 135
ST. MARTIN
P48K 4,778,316 4652 104 297
AFRICA
CANARY ISLANDS
EA80Z 2,388,642 1892 106 331
MOROCCO
CN8MC 749,824 1240 45 154
REPUBLIC OF SOUTH AFRICA
ZS6BPL 3,255,282 2673 112 302
W6KG/ZS 1,526,106 1522 88 259
HSAY 869,442 1179 82 172
SWAZILAND
3D6DX 2,120,742 2045 94 257

ASIA
CHINA
BT18K 1,402,086 3215 87 164
BY4AA 171,204 678 52 85
JAPAN
JA1YBK 2,030,340 1748 129 282
JE1YBV 932,307 908 127 254
JH1YTX 2,368 37 15 17
JE2YRD 1,480,862 1491 120 231
JA2YDC 258,815 525 67 118
JA3YBF 2,619,216 2179 135 297
JA4YPE 207,285 388 75 120
JA6YR 713,460 798 111 219
JH6ZHH 68,931 234 41 70
JH7YJF 2,752,640 3360 120 342
JA7YAA 1,567,944 1515 120 346
JA7YAB 987,896 979 118 246
JA7YWD 27,968 129 50 42
JABYBY 43,826 167 40 58
JABYAK 835,968 981 112 299
KOREA
HL9TX 348,080 888 62 128
THAILAND
HS8A 2,340,318 3499 107 279
U.S.S.R. ASIA
ARMENIA
UG7GWL 1,985,910 2253 73 245
ASIATIC RUSSIA
UZ0CWA 1,065,636 2271 92 142
UZ0AWB 898,919 1554 81 200
UZ0LW 815,451 1422 106 167
UZ0CWW 370,206 985 33 98
UZ0LWX 257,025 1216 48 101
UZ09WD 250,096 693 45 109
UZ09XT 245,354 704 39 95
UZ09CY 204,204 581 34 98
UZ09WF 127,215 522 33 66
UZ09XG 95,136 468 25 71
UZ09XH 92,400 451 21 59
UZ09WH 75,422 345 22 64
UZ09CY 75,019 411 22 69
UZ09WT 36,600 310 27 48
UZ09XK 5,760 116 11 19
AZERBAIJAN
UD7DWZ 410,459 862 54 137
KAZAKH
RL0PYL 4,410,510 3338 141 418
UL8LWZ 1,929,552 2008 97 269
UL8LWA 1,241,715 1456 87 246
KIRGHIZ
UM9MZD 74,467 292 35 77
UM9MWO 12,716 187 24 44
EUROPE
ALAND ISLANDS
OH0BA 5,961,600 4332 161 529
BALEARIC ISLANDS
ED6MDX 2,429,856 2919 100 316
EA6NP 1,709,028 2323 89 259
BELGIUM
ON6NL 1,622,376 2030 99 307
ONGAM 891,810 1698 83 259
BULGARIA
L22KTS 6,177,552 3927 165 523
L21KNP 195,951 556 54 163
L21KVZ 11,470 164 13 57
CZECHOSLOVAKIA
OK5R 6,682,236 4056 127 532
OK5W 4,598,342 3220 140 446
OK3KII 2,589,455 2452 108 337
OK3KAG 1,296,999 1827 92 305
OK2RAB 500,175 960 70 155
OK5SSM 478,923 997 75 188
OK10RA 370,744 933 60 182
OK3VJZ 294,528 667 57 151
OK1KQJ 88,323 219 56 121
OK1KCF 2,310 39 11 22
OK2KTS 648 21 6 12
OK1KL 616 20 5 9
DENMARK
OZ1KWC 151,500 705 26 75

ENGLAND
G3LNS 3,206,240 2776 113 351
G3SSO 1,241,825 1590 81 244
GB2AA 968,108 1602 82 264
G3YMM 61,755 321 32 83
FED. REP. OF GERMANY
DL0WU 1,824,368 1885 94 298
DK3SN 1,419,355 1427 104 275
DF0BV 1,291,639 1296 108 325
DL0JK 1,263,495 1680 96 297
DA1WA 1,183,608 1288 102 306
DL0VHF 1,129,620 1358 105 297
DL0UE 1,066,620 1174 100 294
DJ10J 1,063,920 1283 101 339
DL0RBW 1,056,900 1654 78 193
DL0BI 958,576 1258 80 251
OK0KU 486,716 837 76 195
DL0SB 403,184 723 64 159
DL1KDT 348,750 809 60 190
DK00N 282,080 575 56 149
DL0UM 238,644 528 63 153
DL0TS 162,690 524 43 126
DL0JS 57,000 452 21 54
FINLAND
OH7AI 410,256 784 76 232
FRANCE
F6IFR 87,804 499 24 84
GERMAN DEMOCRATIC REP.
Y49ZF 288,610 780 61 184
Y33ZB 159,750 555 45 105
GUERNSEY ISLAND
GU/PA2FAS 392,948 1068 42 151
HUNGARY
HG5A 6,281,793 4668 132 435
HG9R 5,695,882 4498 131 426
HG6N 5,359,692 4413 120 396
HG7B 5,138,670 4357 118 397
HA5KKC 2,075,570 2390 95 303
HA2KRP 1,251,579 1865 88 233
HA3KNA 869,547 1509 82 247
HA8KUC 745,680 1349 86 226
HA2KMR 721,548 1185 80 244
HG6V 704,104 1445 74 209
HA7KLG 633,898 1172 79 223
HA5KGC 543,860 1040 74 210
HA8KAX 414,932 887 67 225
HG1S 395,425 1064 61 164
HA5KDC 321,368 538 80 209
HA1KRR 270,980 704 59 161
HA8KZC 241,490 638 48 157
HA5KOB 70,200 380 42 108
HA7KMF 48,260 230 33 94
HA8KDA 33,374 342 18 64
ITALY
IS5NH 9,689,570 5300 160 526
I2UBI 2,535,343 2241 111 356
IK2ANI 186,626 489 51 138
JERSEY ISLAND
GJ6UW 4,430,010 3881 124 431
LIECHTENSTEIN
HBB8HA 3,630,440 3422 112 334
HBB 95,459 434 34 118
NETHERLANDS
PA3CEF 1,710,624 2113 97 315
PABKHS 837,304 1333 86 246
PI4TTC 46,669 242 25 78
PI10GE 12,264 104 17 39
NORTHERN IRELAND
GI4MWA 133,500 533 45 133
NORWAY
LA7JO 1,919,285 2184 104 341
LA2AB 1,301,676 2138 71 197
POLAND
SP5PBE 1,085,315 1452 103 282
SP9PR 520,674 1113 67 225
SP9KOU 398,670 844 65 209
SP9JKT 299,960 555 55 165
SP3PJK 128,544 400 46 130
SP9KAO 105,984 337 43 101
SP9AKD 63,918 227 45 114
SP4PI 58,350 257 37 113
ROMANIA
Y08KOD 472,328 1080 73 229
Y08KAN/p 186,735 607 50 161



Here's some of that real old fashioned DX—the operating location of PZ5JR/7 deep in the jungle of Surinam.

**BRITISH VIRGIN ISLANDS**

VP2VCW 19,589,570 12142 149 516

**CANADA**

VE7ZZZ 3,252,515 3920 111 254

**MONTERRAT**

VP2MW 15,142,012 11573 133 456

**ASIA**

**JAPAN**

JA9YBA 5,606,691 3906 147 354  
 JAZYKA 4,805,744 3398 141 355  
 JA7YFB 3,678,762 2845 137 317  
 JA7YFJ 3,045,545 3002 117 238  
 JA7YRR 2,598,960 2234 127 281  
 JAZYKC 2,056,227 1756 134 283  
 JA4ZDA 804,384 979 103 191  
 JA1YAD 429,762 645 91 155  
 JA1YXP 231,949 507 61 102  
 JA2YEC 45,232 201 44 44  
 JHBYCT 28,555 219 49 51  
 JA6YCL 23,244 111 31 47  
 JA3YCT 22,428 107 42 42

**EUROPE**

**ITALY**

IO3MAU 9,556,680 6504 151 500  
 I2MOP 832,727 1120 91 262

**ITU GENEVA**

4U1ITU 4,948,137 4520 129 420

**LIECHTENSTEIN**

H8BAEN 3,674,352 3475 105 423

**LUXEMBURG**

LX9BV 8,155,912 6708 144 250

**SPAIN**

EA1DOB 249,900 563 57 198

**SVALDBARD ISLAND**

JW5E 992,010 1752 72 143

**TURKEY**

TA1C 899,910 2028 82 221

**YUGOSLAVIA**

YT20 1,962,661 2508 97 302

**SOUTH AMERICA**

**GALAPAGOS ISLANDS**

HC8X 21,995,053 11203 150 527

**VENEZUELA**

YV3IUP 1,428,030 1833 93 177

**QRP**

WP4G A 342,382 795 63 130  
 K3WS " 315,208 459 69 179  
 K7RI " 271,122 471 75 144  
 K7BTB " 176,860 342 62 123  
 JA1WSK " 115,062 284 62 89  
 OH3GD " 98,192 441 36 100  
 OK3IAG " 95,996 331 50 156  
 SM5CCT " 78,892 353 35 128  
 NZ5A " 74,983 191 54 113  
 OK1DKS " 66,171 300 36 101  
 SP2UJU " 62,730 264 39 114  
 KH6CP " 41,747 177 42 67  
 KA4BPY " 23,655 102 34 61  
 EA1CJP " 20,657 185 20 71  
 EA3DNC " 4,400 65 15 40  
 UP2BB " 1,485 45 6 21  
 Y24TG " 1,330 36 8 23  
 EA2SN " 414 22 7 11  
 SM0GKF " 84 4 4 3  
 EA4DDO " 25,398 143 21 62  
 EA7DZL " 19,240 122 21 53  
 EA4CFN " 17,242 120 19 55  
 EA1DOU " 10,540 114 15 47  
 EA3FHC " 7,700 103 17 34  
 UA6BPM " 5,875 78 15 32  
 HG5AEZ " 1,893 43 7 20  
 EA3ERT " 693 18 9 12  
 JH9HXF/1 " 434 12 6 8  
 SM4CMG " 297 27 2 9  
 JI3BFG " 247 8 6 6  
 JF2KUU " 64 5 3 5  
 LZ2EW 21 77,700 336 26 74  
 RB5GD " 22,035 165 23 42  
 YU1KFG " 15,756 138 12 40  
 RB5VZ " 15,456 122 17 39  
 UB5FDM " 13,385 155 16 40  
 WA5VBW " 12,354 81 19 39  
 SP9IGY " 4,181 72 10 27  
 G3CWL/A " 928 28 5 11  
 UB5CN " 720 22 6 12  
 YU1NR 14 114,912 552 28 84  
 UY5XE " 78,859 384 27 80  
 JAZJ5F " 42,978 210 27 81  
 KB7VD " 23,872 132 23 41  
 W6CN " 20,374 121 22 39  
 EA6SK " 18,865 270 12 43  
 ZL1BIL " 16,704 104 21 43  
 EA3BU " 3,507 67 9 20  
 LA7ZN " 2,128 34 11 27  
 SP6EY 7 19,095 234 12 45  
 OK1AJ 3.8 3,680 120 4 28  
 SP5NHV " 1,125 50 4 21  
 JA1KFX " 30 4 3 3  
 UB5IUH 1.8 9,350 151 9 41  
 UA1WCM " 1,950 78 5 20  
 RA3DKE " 1,932 62 6 22  
 UO2GA " 1,431 49 6 21  
 RB5IDV " 1,360 50 5 15  
 UM8MAA " 324 15 5 7  
 UA1WEU " 276 26 3 9  
 RA9UAD " 8 4 2 2

**SCOTLAND**

GM0BR8 842,420 1527 67 225

**SPAIN**

ED788 6,128,774 4147 134 479  
 ED3CBE 590,422 1225 69 164  
 EA1RCQ 24,975 232 33 67  
 EA3MM 4,455 84 20 35

**SWEDEN**

SK5TW 1,111,320 1912 90 253  
 SM5AZN 47,619 193 39 76

**SWITZERLAND**

H89ACA 2,425,350 2243 110 327  
 HB9H 2,334,163 2323 104 335  
 HB9AUS 1,146,396 1619 90 242  
 HB9GT/p 353,808 841 57 177

**UNITED NATIONS (VIENNA)**

4U1VIC 1,229,704 1871 94 298

**WALES**

GW8GT 4,155,624 3623 106 378

**YUGOSLAVIA**

Y21EXY 6,877,504 4291 150 506  
 Y2R 2,714,631 2742 109 338  
 4N2C 2,697,534 2451 111 363  
 Y6M 2,424,366 2754 93 333  
 YT3T 1,971,200 2184 102 338  
 4N2D 1,473,124 2328 69 188  
 YU2AKL 464,366 938 78 209  
 YU4FDE 307,900 649 62 152  
 YU3GHI 102,960 410 39 117  
 YU3DFT 5,763 47 13 19

**U.S.S.R. EUROPEAN**

**BYELO RUSSIA**

UC1AWC 809,114 1747 100 180  
 UC1CWC 39,204 242 33 66  
 UC1LWN 37,524 253 31 75

**ESTONIA**

UR1RWW 521,550 1141 83 202  
 UR1RYY 201,072 751 40 137  
 UR1RXL 37,260 262 28 87

**EUROPEAN RUSSIA**

UZ4FWO 3,501,172 3110 132 416  
 UZ4WWB 690,795 1212 82 233  
 UZ4WWF 618,860 1323 55 165  
 UZ3AXM 188,106 479 55 159  
 UZ3XWW 187,460 554 51 156  
 UZ4AWB 143,962 529 49 133  
 UZ1TWR 123,176 437 46 127

UZ3QYA 117,412 223 46 103  
 UZ6AWX 112,220 401 41 114  
 UZ4HWZ 86,995 348 35 102  
 UZ4FWE 83,028 362 30 81  
 UZ3PWJ 73,080 309 39 101  
 UZ6HZH 65,688 380 34 85  
 UZ6HXC 51,531 409 25 64  
 UZ4WWC 32,800 271 23 57  
 UZ3AWH 8,624 125 17 32  
 RZ6AWH 4,094 52 14 32  
 RZ6AWP 672 26 8 16  
 UZ3TWT 132 11 4 8

**LATVIA**

UQ16XN 2,696,958 2872 112 365  
 UQ1GKJ 115,500 576 43 107  
 UQ1GWT 58,137 348 43 106

**LITHUANIA**

UP18ZZ 2,736,656 2591 115 357  
 UP1BZO 1,262,380 1683 92 303  
 UP1BWG 660,642 1229 75 234  
 UP1BYT 1,711 61 6 23

**MOLDAVIA**

UO40WX 3,332 55 13 36

**UKRAINE**

UB4WZA 684,915 912 94 291  
 UB4EWB 418,836 1079 61 167  
 UB4MXE 305,592 803 59 179  
 RB4XL 139,000 625 49 90  
 UT4UWE 130,752 572 46 134  
 UB4QXU 104,860 524 41 99  
 UB4AXA 72,240 454 29 76  
 UB4TWL 55,622 273 33 104  
 UB4MWU 52,864 300 31 81  
 UB4IZA 43,160 290 34 96  
 UB4VWA 9,585 145 12 33  
 UB4WYA 4,408 76 9 27

**OCEANIA**

**FRENCH OCEANIA**

F08KS 701,400 1465 66 102

**GUAM**

KA8GVS /KH2 1,564,572 2319 90 151

**HAWAII**

KH6XX 7,632,357 5657 149 308  
 KH6DW 3,591,432 3973 114 198

**WAKE ISLAND**

KB6DAW /KH9 2,418,260 3124 101 260

**SOUTH AMERICA**

**ARGENTINA**

LU1VZ 1,472,288 1825 88 190  
 LU1DJU 1,411,584 1890 80 176

**BRAZIL**

ZY5E0 8,982,698 5316 146 432

**CHILE**

CE5CJA 1,975,392 2358 96 190  
 CE5DXY 201,654 465 55 98  
 CE5PA 185,843 482 55 98  
 CE4ETZ 170,373 437 48 85

**COLOMBIA**

HK3MAE 564,911 991 64 129

**JUAN FERNANDEZ**

X0ZFF 3,097,632 3315 100 228

**NETHERLANDS ANTILLES**

P44B 11,315,931 6885 132 429

**PARAGUAY**

ZP5JCY 4,440,744 3360 120 342

**MULTI-OPERATOR**

**MULTI-TRANSMITTER**

**NORTH AMERICA**

**UNITED STATES**

N2AA 10,838,871 5171 154 579  
 W3LPL 8,154,548 3977 160 564  
 N5AU 7,745,040 3822 165 555  
 NR5M 6,010,663 3297 157 494  
 AD8P 5,592,856 2987 151 501  
 N4RJ 5,135,920 2688 159 529  
 N6RO 4,355,370 3119 146 367  
 N6TU 3,712,760 2697 141 364  
 NF2L 2,930,103 1806 135 426  
 W3GM 2,228,940 1872 146 464  
 ND0E 2,171,526 1766 133 324  
 N6VR 1,630,848 1262 95 178  
 K3II 1,334,712 1044 116 340  
 K3ZZ 954,954 925 92 279  
 N7RO 920,588 1040 103 213  
 W8NGO 663,362 690 99 244  
 N3ARK 615,600 622 92 268  
 WA7RDU 12,361 95 14 33

**ALASKA**

KL7Y 4,222,866 4823 120 234

**BERMUDA**

VP9AD 18,029,220 11306 148 512

Our thanks go to the following stations who sent in check logs:

C31LAP, DJ2RE, DL3ZBJ, EA1AUS, EA1B0B, EA1DXS, EA1ZNS, EA3ADW, EA3C1I, EA3DFA, EA3DUU, EA3EYB, EA4BUE, EA4KK, EA6WY, EA7DLA, EA7DUD, EA8-370082, EA8AXT, EA8TH, EA9AM, EC2ANY, F6ISN, F11AEK, HA4Y0, HA5XA, HA6KNX, HA7KSR, HK1LAQ, HK4GAW, K6FM, KB6C10, K50C/KH2, KH6WT, LA1FW, LA1MFA, LA2CBA, LA2CF, LA2EG, LA2IE, LA2TO, LA5BS, LA5DW, LA6PBA, LA7ZCA, LA0EM, LZ1KAZ, LZ1KDP, LZ1KKI, LZ1KOZ, LZ2CW, LZ2KAC, N2BNN, N2BXV, N4J0A, N5HRX, N6EZF, NA10, NL-8992-R33, OH1EB, OH1RY, OH1XX, OH3HS, OH5OZ, OH7VR, OK1-30572, OK2BPU, OK2BFX, OK3CSQ, ON5FV, OZ3O, OZ4RT, OZ4ZT, OZ8AE, PA2CWR, PA0MWW, PA0RWS, PA0TV, PA0UV, PT2TF, PY1PL, PY1RN, PY3BC, PY4OD, RA1WW, RA3AR, RA3DPD, RA3NA, RA3RC, RA3VQ, RA3VR, RA4HC, RA4NAI, RA6LR, RB5EV, RB5IA, RB5MF, RB5VC, RF6FHA, RL7GE, RM8MA, RP2BD, RP2BH, RT5UO, RZ3AM, RZ3DM, SK2QG, SM2LWU, SM3QU, SM5CVC, SM5DAC, SM6AVM, SM6KMD, SM6OUI, SM7AII, SM7BZV, SM7CFR, SM7CPY, SM7CRF, SM7DUF, SM0CSX, SM0DZJ, SP1AAQ, SP1DMD, SP1CGP, SP1KBP, SP1NOB, SP2FF, SP2GJV, SP2GOW, SP2NAX, SP2UU, SP3DAH, SP3GVX, SP3NUJ, SP4EEZ, SP4PES, SP5ENA, SP5ENV, SP5GMK, SP5GMM, SP6AUJ, SP6CC, SP6ECF, SP7DBI, SP9CCT, SP9DAE, UA3AHA, UA3DUJ, UA3DUS, UA3DUA, UA3RAR, UA3RFZ, UA3TBM, UA3XBB, UA4CGP, UA4HAD, UA4HLD, UA4NFV, UA4UOL, UA6ADC, UA6JY, UA6XLD, UA9OZ, UA9OO, UB3IWA, UB4CWW, UB4DWB, UB4EXP, UB4IWD, UB4JO, UB4MWA, UB4WWW, UB5D4W, UB5HAF, UB5MDL, UB5UCH, UB5UKH, UB5VCK, UB5VGV, UB5ZHO, UC1AWZ, UC2LB, UC2OT, UJ8JJ, UK3B, UL7PEI, UL7TJ, UM8MO, UP1BWW, UP1BZA, UP2BNT, UQ1GWW, UQ2GNL, UR1RWX, UR2RR, UR2RU, UR2RZ, UT4UH, UT4UWK, UT5DK, UV9FM, UW3RR, UW4NH, UW4NR, UW6HS, UW9SL, Y39SE, Y41ZH, Y42FWA, UZ3AZG, UZ3AZM, UZ3DXW, UZ3GWM, UZ3MWD, UZ3QWV, UZ3QXZ, UZ3UWZ, UZ3XWM, UZ3YWM, UZ4SWF, UZ4WWA, UZ4AWG, UZ6ZHR, UZ6LWZ, UZ9WWW, V01AW, V02AP, W1ESN/4, W4RUE, W5LYT, Y21IC, Y21YJ, Y22BC, Y22FK, Y22NC, Y22DU/A, Y23FK, Y23YE, Y24GF, Y24LN/A, Y24DN, Y24XD, Y25BL, Y25GH/A, Y25ID/A, Y25IJ, Y25M, Y25TM, Y39SE, Y41ZH, Y44TN, Y47YM, Y49OF, Y51VE, Y53ZN, Y53ZL, Y54TA, Y55UG, Y55VH, Y56UF, Y56VF, Y56VN, Y57ED, Y67YG, Y75YL, Y03JF, Y03RN, Y04BI, Y04U5, Y07BSN, YU7DR, YV7QP.

Disqualifications: VE2HQ (unverifiable QSOs), VE3CPA (unverifiable QSOs).