

# Results, 1982 ARRL International DX Contest

"DX contest is coming in sight,  
Rig's ready to go day and night,  
I'll go it nonstop,  
'Til I finally drop,  
About 11 P.M. Friday night." — K8CH

By Mark J. Wilson,\* AA2Z and Bill Jennings,\*\* K1WJ

The old adage that the more things change, the more they remain the same, even applies to DX contesting. You'd think that the 1982 ARRL International DX Contest would bear little resemblance to its 1972 counterpart. In some ways you would be absolutely correct, while in others you'd be dead wrong.

Sure, much of the equipment has changed. And people are doing things with antennas and receivers these days that wouldn't even have occurred to a 1972 DX contester except during a pipe dream. Back then the contest was 96 hours long on each mode, QST had a 75-cent cover price and a smaller format, an Alpha 77 cost only \$1795, and the ARRL contest man was Rick Niswander, WA1PID (now K7GM). Even the name was different; the contest used to be known as the ARRL International DX Competition.

The 1972 contest was similar to this year's in that it was during the first few years after a sunspot peak. The phone weekends were blessed with better propagation than cw (an understatement this year). The soapbox commented on how great it was that 10 meters was still in such great shape, and Rick wondered what many of us are now wondering: Will 10 hold up for next year's onslaught of rf?

1982 brought us 3705 logs (1979 phone and 1726 cw) compared to last year's 4162 — an all-time high — and 1972's 2470. In 1972, there were about 200 more cw entries than phone, a trend that has reversed itself during the intervening years.

While many of the top operators have come and gone, an amazing number of the star players then are still around now. This year's top cw man, K1GQ, used to be K2SIL. Sound familiar? He operated KH6RS to the number two worldwide spot on phone and number three on cw in 1972. How about the top W/VE cw op from 1972? He was K1ZND, now known as K1ZZ, 1982's top cw multi-single entrant.

The top 1972 phone and number two cw scores for W/VE entrants were turned in by

K7VPF (now K7JA) operating at W7RM. Those of us who operated any 15-meter phone this year undoubtedly heard W7WA operating from there in his successful quest for the single-band plaque. Same station, albeit a different antenna systems thanks to a hurricane several years ago.

1972's number three cw single op, K1LPL/3, is better known as W3LPL and is this year's big phone multi-multi. AK1A, 1982's number two phone man, probably didn't even know what Amateur Radio was in 1972 as he's only been licensed since 1979.

The W/VE scores are a bit lower than in 1972 because the contest is only half its former length. W7RM's score of 2,992,770 (3024 Qs and 330 multipliers) represented 82 hours of on-the-air effort. K1ZM operated W1ZM to first place this year with 2,645,730 points (2390 Qs and 369 multipliers) in just over half that time. This says something for equipment and operating improvements, as well as for the greater interest in phone overseas. The top 1972 cw score by K1ZND of 2,509,359 (2207 Qs and 379 multipliers) was quite a bit higher than this year's top score by K1GQ of 1693 contacts and 328 multipliers.

On the DX front, the top 1982 phone score came from N6RJ operating from ZF2FL. Jim was in there 10 years ago with the number four worldwide phone score from VP2LAT. OZ1LO, the 1972 European cw continental leader, holds the same spot this year. And ZS6DW, 1972's African phone champion, commented in the soapbox that at 66 years old he realized that it was time for someone else to take over. He's still going strong, however; with this year's 40-meter phone entry W. F. Meyer comments, "At 76, I'm beginning to get a bit long in the tooth."

Enough of the 1972 highlights. By now, it's

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## 1983 ARRL International DX Contest

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CW  
February 19-20

Phone  
March 5-6

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It was KN2M/J6L's first experience at the "other end" of the pileup. He handled it quite well, for at the end of the cw weekend there were over 1800 QSOs in his log. Dave advises that KA2NIQ will handle his QSLs.

obvious that despite 10 years of progress, the game and many of the players remain the same.

The 1982 phone weekend was just outstanding in terms of propagation and participation. Ten meters was the star performer; the big guns made about half of their QSOs on that band alone. All but three of the Top Ten W/VE scorers made more than 2000 QSOs, and all but one broke 1900. Things were so good that it took more than 1.8 million points to make the Top Ten box, a score that would have netted fifth place nationally last year. The East Coast cleaned up on phone, with eight of the top scores coming from the first three call areas. WA8YVR just barely made it, as did VE3BVD. Congratulations, fellows!

On cw, things turned out differently. Conditions were definitely not up to snuff, and the top scores were down significantly from last year. Besides the usual ones, twos and threes, it was nice to see N6RO, K5RC (K5GN, opr.) and KØRF (WØUA, opr.) in there slugging. An interesting side note is that the average age of the Top Ten cw ops is well over 30, showing that when conditions aren't so good experience counts for a great deal, and the "young whipper-snappers" aren't the only ones who can do well. One of the cw highlights was the great 160-meter opening to Europe on Saturday night. A look at the QSOs/Multipliers Per Band boxes show just how good things were.

Some nice scores are reported in this year's W/VE Low Power Leaders box. K1JX took both modes using his two-element tribander at 60 feet and some dipoles, a feat that should provide inspiration for similarly equipped "small guns." W2TZ and N5AW (now back in Texas after a stay in Connecticut) were back in there trying again after their wins last year and placed second with fine scores on phone and cw respectively.

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## United States and Canadian Plaque Winners

### Phone

Single Operator	Winner	Donor
All Band	<b>W1ZM (K1ZM)</b>	Frankford Radio Club
1.8 MHz	<b>WA2SPL</b>	In Honor of W1BB
3.5 MHz	<b>K1PT</b>	Lance Johnson Engineering
7 MHz	<b>N5JJ</b>	David Thompson, K4JRB/K5MDX
14 MHz	<b>K1KI</b>	Mark Michel, W9OP and Richard Loehning, N9ACP
21 MHz	<b>W7RM (W7WA)</b>	Roy and Kathryn Tucker, N6TK and AA6TK
28 MHz	<b>W0ZV</b>	Lawrence F. Emery, K1UO
QRP	<b>KA1VQ</b>	Rockford Amateur Radio Assn. — W9AXD
Multi-Single	<b>K1OX</b>	The VP2E Contest Operators
Multi-Multi	<b>W3LPL</b>	Buffalo Area DX Club — W2RR

### CW

Single Operator	Winner	Donor
All Band	<b>K1GQ</b>	Frankford Radio Club
1.8 MHz	<b>N4WW</b>	W1TX Roy Fosberg Memorial
3.5 MHz	<b>W1ZM (K1ZM)</b>	Northern Illinois DX Assn.
7 MHz	<b>W6XX</b>	Chuck Cullian, K0RF and George Schultz, W0UA
14 MHz	<b>K1KI</b>	Neenah-Menasha Amateur Radio Club
21 MHz	<b>K6LL/7</b>	Carl Luetzelschwab, K9LA
28 MHz	<b>N4ZZ</b>	Mike Badolato, W5MYA
QRP	<b>AC2U</b>	Hollywood Amateur Radio Club
Multi-Single	<b>K1ZZ</b>	The VP2E Contest Operators
Multi-Multi	<b>K2UA</b>	Colorado Contest Conspiracy

## DX Plaque Winners

### CW

Single Operator	Winner	Donor
All Band-World	<b>V3MS (W0CP)</b>	North Jersey DX Assn.
Africa	<b>EL2AV</b>	San Diego DX Club
Asia	<b>JA1BWA</b>	Alamo DX Amigos — San Antonio
Europe	<b>OZ1LO</b>	Clarke Greene, K1JX
North America	<b>K8WV/WP9</b>	Pete Grillo, KN0E
Oceania	<b>KH6ND</b>	Ray Stone, W5RBO
South America	<b>HK3A (K3ZO)</b>	W6CUU Charles Cheatham Memorial
1.8 MHz	<b>JA5DQH</b>	Jim Dionne, K1MEM and Bill Poellnitz, K1MM
3.5 MHz	<b>DL1KB</b>	John Allyn, W7XR
7 MHz	<b>I0JX</b>	Art Boyars, K3KU
14 MHz	<b>YU4GD</b>	Bencher, Inc.
21 MHz	<b>LU8DQ</b>	Southern New England DX Assn.
28 MHz	<b>XE2BC (N6OP)</b>	West Jersey Communications Products — W2BN
QRP	<b>YV2BE</b>	Nashua Amateur Radio Club — AJ7S
Multi-Single World	<b>VP2E</b>	George Schultz, W0UA and John Brosnahan, W0UN
Africa	—	Red Stick DX Assn., Baton Rouge, LA
Asia	<b>JA9YBA</b>	Red Stick DX Assn., Baton Rouge, LA
Europe	<b>DL0AA</b>	Mile Hi DX Assn.
North America	<b>PJ7ARI</b>	Tom Taormina, K5RC
Oceania	<b>AH6BK</b>	ARRL
South America	<b>FY0FOL</b>	ARRL
Multi-Multi World	<b>V2AMK</b>	QRZ DX, Weekly DX Bulletin
Asia	<b>JA7YAA</b>	Martha Doucett Ellis
Europe	<b>OH1AF</b>	Schenectady ARA — W2PV Memorial
North America	<b>KL7QT</b>	Jim Thayer, W1FZ

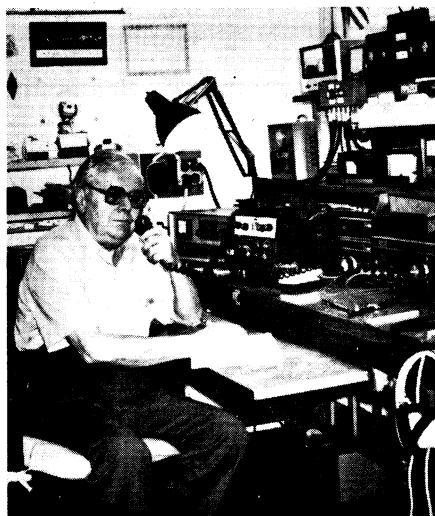
## DX Plaque Winners

### Phone

Single Operator	Winner	Donor
All Band-World	<b>ZF2FL (N6RJ)</b>	North Jersey DX Assn.
Africa	<b>TYA11</b>	John M. Shinal, K4BYK
Asia	<b>JA3CZY</b>	Acadiana ARA, Lafayette, LA
Europe	<b>G3FXB</b>	Murphy's Marauders
North America	<b>VP2MP (K2YY)</b>	Chod Harris, VP2ML
Oceania	<b>VK4VU</b>	Ray Stone, W5RBO
South America	<b>P42J (W1BIH)</b>	Carl Smith, W0BWW
1.8 MHz	—	ARRL
3.5 MHz	<b>YV1CD</b>	Dana Atchley, W1CF
7 MHz	<b>HC1HC</b>	Robert Peterson, W3YY
14 MHz	<b>F2SI</b>	Kansas DX Assn.
21 MHz	<b>I0WDX</b>	Don C. Wallace, W6AM
28 MHz	<b>G4GIR</b>	Roy and Kathryn Tucker, N6TK and AA6TK
QRP	<b>TG9GI</b>	Mike Badolato, W5MYA
Multi-Single World	<b>VP2E</b>	Delta DX Assn.
Africa	—	David Vogel, NL7P
Asia	<b>UK0QAA</b>	Bill Brown, K0UK; Western Colo. Contesters
Europe	<b>F3TV</b>	Metro DX Club
North America	<b>KV4FZ</b>	Nick Lash, K9KLR
Oceania	<b>KH6XX</b>	Carl Smith, W0BWW
South America	<b>W6QL/PJ2</b>	Harmfesters Radio Club
Multi-Multi World	<b>J3AVT</b>	Gloucester County ARC
Africa	—	Dan Robbins, KL7Y
Asia	<b>JA7YAA</b>	Mike Badolato, W5MYA
Europe	<b>I3EVK</b>	Tom and Joy Middleton, WB4CKY
North America	<b>KP4DX</b>	Megahertz Manor Maniacs
Oceania	<b>AH2L</b>	Daie Meyers, W4BIM/3D2DM

## Special Plaque Winners

Single Operator	Winner	Donor
World Combined Score (Both modes)	<b>P42J (W1BIH)</b>	Yankee Clipper Contest Club
WVE Highest Combined Total Multiplier	<b>K1DG</b>	<i>The DX Bulletin</i>
Japan (combined) WVE Operator (combined)	<b>JF1SEK</b> <b>N3BB</b>	Northern California Contest Club <i>National Contest Journal</i>
WVE Low Power (Top both modes)	<b>K1JX</b>	Ken Bolin, W1NG
WVE Low Power (cw)	<b>K1JX</b>	Wireless Institute of the Northeast
WVE Low Power (phone)	<b>K1JX</b>	Rochester DX Assn.
W8 (phone) California (cw) California (phone) Texas (cw) Texas (phone) Caribbean Resident (phone)	<b>W8BYVR</b> <b>N6RO</b> <b>K6RU (N6BZA)</b> <b>K5RC (K5GN)</b> <b>N5RZ</b> <b>C6ADV</b>	Livonia Amateur Radio Club Southern California Contest Club Dave Bell, W6AQ Dennis Motschenbacher, N5DKG/KZ5M North Texas Contest Club Arturo Gigante, H18GB
Israel (cw) Israel (phone) Japan (cw)	<b>4X6AG</b> <b>4X6AG</b> <b>JA1BWA</b>	Martin Hartstein, N6WW Martin Hartstein, N6WW Tom Morrison, K5TM and Randy Thompson, K5ZD
Japan (phone) Sicily Scandinavia	<b>JA3CZY</b> <b>IT9GSF</b> <b>SM5GMG</b>	Western Washington DX Club John Lindholm, W1XX John Lindholm, W1XX
Multioperator Caribbean (cw) Caribbean (phone) Most Improved Club (points per entry)	<b>VP2E</b> <b>VP2E</b> <b>Lincoln ARC</b>	The YASME Foundation W5QBM Joe Johnston Memorial Steve Place, WB1EYI



PP2ZDD, Dick, licensed for 48 years, the top phone scorer for the past six years from Brazil, makes it number seven in 1982. Keep it up, Dick.

Some of the single-band plaque winners turned in scores that beat even the biggest of the multi-multis. Check out the single-band scores, particularly those of K1KI on 20 meters on both modes, W7RM and K3LR on 15-meter phone, WA2SPL on 160-meter phone and N4WW on 160-meter cw.

Among the multi-single entrants, K1ZZ came out first on cw by a clear margin. On phone, two stations normally found in multi-multi battled it out to a photo finish, with K1OX narrowly beating K8LX. K2UA posted the top cw multi-multi score again this year, while W3LPL took the honors on phone. 1982 brings us a sad note in multi-multi competition. Jim Lawson, W2PV, a staunch supporter of this class, passed away last spring.

From the other side of the pileup, W0CP operated as V3MS for the cw weekend and came out on top, helped partially by excellent 160 and 80 meter multiplier totals. K2YY, last year's phone winner from VP2MP, tried it again but lost by a small margin to N6RJ at ZF2FL. These two giants ended up only 13 QSOs apart, but 10 multipliers made the difference. Other big scores came primarily from

North and South America on cw, telling us how conditions were. Kudos to KH6ND, OZ1LO, Y24UK and I2UBI for making it across the ponds. On phone, the top scores came from North America, Europe, South America and Oceania, with the emphasis on the first two. P42J and KH6ND were the only two stations to make the DX Top Ten on both modes.

The VP2E crew did their thing on phone again this year, and as if that isn't enough they took the multi-single competition for DX stations on cw by a huge margin also. Theirs was an outstanding operation on both modes, both in terms of score and of operating style and signal quality. As of this writing they don't plan to be back in '83, but next year's winners will have a tough act to follow.

Of course a DX contest without some good DX would be nothing. Our thanks go to those 1652 overseas hams from a total of 122 different countries who sent in logs. These hams from countries as diverse and rare as A2, A7, CE0A, DU, FO, HB0, J2, JT, JW, JX, TY, UH8, UI8, VS6, YK, ZB2, Z2, ZK2, 5Z, 7P, 9K, 9U and 9V among others helped make this

**Top Ten, Phone — Single Operator**

W/VE	Points
W1ZM (K1ZM)	2,645,730
AK1A	2,251,494
K1AR	2,224,068
W3BGN	2,129,289
K2VV	2,081,970
N3BB	2,032,524
K1DG	1,887,693
AA2Z	1,836,265
WA8YVR	1,832,544
VE3BVD	1,825,920
<b>DX</b>	
ZF2FL (N6RJ)	4,972,014
VP2MP (K2YY)	4,805,643
G3FXB	2,702,898
SM5GMG	2,390,895
OH0XX	2,384,640
P42J (W1BIH)	2,063,460
I6NOA	2,032,101
I6FLD	2,031,552
VK4VU	1,948,800
KH6ND	1,869,840

**Top Ten, CW — Single Operator**

W/VE	Points
K1GQ	1,665,912
N2LT	1,519,614
N6RO	1,478,211
K5RC (K5GN)	1,429,392
N3BB	1,407,504
N3AD	1,373,568
W2IB	1,298,151
W2RQ	1,292,484
K3LR	1,286,056
KØRF (WØUA)	1,253,616
<b>DX</b>	
V3MS (WØCP)	4,006,002
HK3A (K3ZO)	3,575,754
P42J (W1BIH)	3,008,184
N5DKG/YV5	2,824,392
KH6ND	2,408,679
YV1NX	2,228,310
K8WW/VP9	1,625,013
OZ1LO	1,530,852
Y24UK	1,487,016
I2UBI	1,433,544

**WVE Power Leaders (200 W or less)**

Phone	Points
K1JX	918,189
W2TZ	764,181
N7ABJ	520,194
W3ARK	288,585
KC3H	285,864
W3JPT	265,650
AG9E	258,462
WA1FCN	249,444
WØWP	248,508
WAØECN	245,508
<b>CW</b>	
K1JX	800,664
N5AW	709,686
K8NZ	666,645
W2TZ	659,097
W1GL	526,851
N8DE	426,405
W9OP	401,598
K2MFY	398,682
W3ARK	356,562
W6UQF	339,228

**Division Leaders — Single Operator**

Phone	Division	CW
W3BGN	Atlantic	N3BB
W9ZRX	Central	N8DE
KØTPF	Dakota	KØSR
W5ZR	Delta	K5KU
WA8YVR	Great Lakes	WA8TBQ
K2TR	Hudson	N2LT
KØSCM	Midwest	WØWP
W1ZM	New England	K1GQ
K7RI	Northwestern	KF7Z
K6RU	Pacific	N6RO
N8II	Roanoke	K4GKD
N7DF	Rocky Mountain	KØRF
KX4R	Southeastern	W8ZF/4
KM6B	Southwestern	WA6JAH
N5RZ	West Gulf	K5RC
VE3BVD	Canadian	VE1AI

another exciting contest for the veterans and first-timers alike.

Competition among our affiliated clubs was as intense as ever this year. Looking at the 1972 writeup, we see that the "Big Four" were Potomac Valley RC, Frankford RC, Murphy's Marauders and Northern California DX Club, in that order. PVRC's winning score was 64,776,111 points and 80 entries. This year, those same four clubs make up the Unlimited Class, but the power structure has shifted. In 1982 64 million points was still the magic number in the Unlimited Class, and Frankford Radio Club's 96 entries supplied enough points to earn them the gavel. Yankee Clipper Contest Club, a spinoff of the original Murphy's Marauders, came in second with 56 megapoints and 80 entries. One of these days . . . Meanwhile the "new" Murphy's Marauders won the Medium Class gavel for the fourth year in a row with a shade over 20,000,000 points, while the North Texas Contest Club finished a dis-

tant second, again. The Local Class has become somewhat of a multioperator battleground between the K9GL multi-multi giant of the Ill Wind Contesters and the smaller multi-multi and multi-singles of the Central Virginia Contest Club. Ill Wind won the gavel again this year, but not by much.

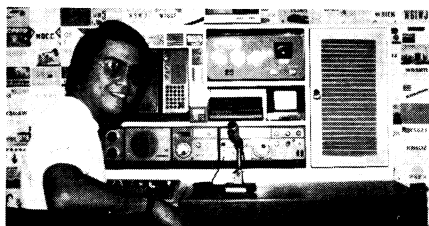
We'll finish up this year's DX contest report with a few words from Rick's 1972 writeup that still apply today: Listen before transmitting; sign your call more frequently if you're DX; and be courteous throughout the fray. Although this is a competition, there is still plenty of time to remember your manners. Many casual ops listen to the contesters, and many a non-contester's image of contesting has been soiled by the inexcusable bad manners a few of us display. As Rick summed it all up: "And last, but not least, remember the famous saying of the esteemed philosopher V. Y. Senny Tree, who said, 'Before and during the battle make sure your house is in order.'"



The "family portrait" of I3EVK, the top European phone multi-multi. Left to right are I3MAU, I3ON, I3FIY, I3EVK and IH3DYG.



WØCP operated V3MS. FB job with over 4400 QSOs and 4 megapoints to his credit.



DU1EFZ did 80-meter phone only in the contest, but Edwin has a potent signal on the high bands also when he couples that kilowatt station to his 5-element tribander at 50 feet.



The operators of the phone multi-single at Y21YK are (l to r) Y24TK, Y21YK, Y24UK, and Y23EK. These guys made more than 7000 QSOs using just 20, 15 and 10 meters.

**DX Continental Leaders — Phone**

	Africa	Asia	Europe	North America	Oceania	South America
All Band	TYA11	JA3CZY	G3FXB	ZF2FL	VK4VU	P42J
1.8 MHz	—	—	—	—	—	—
3.5 MHz	EA9EU	JA7NX	CT1FL	—	AH6BK	YV1CD
7 MHz	EA9IE	JA2BAY	OK1TN	—	—	HC1HC
14 MHz	—	4X6DX	F2SI	HI8GB	—	ZY5EG
21 MHz	—	UAØSAU	IØWDX	KL7IDT	YC2BSF	PT7VOB
28 MHz	EA8ZI	JA1SGX	G4GIR	6D5LLS	KH6MD	LU1VK
QRP	—	JA1CG	YU7AV	TG9GI	—	—
Multi-single	—	UKØQAA	F3TV	VP2E	KH6XX	W6QL/PJ2
Multi-multi	—	JA7YAA	I3EVK	J3AVT	AH2L	—

**DX Continental Leaders — CW**

	Africa	Asia	Europe	North America	Oceania	South America
All Band	EL2AV	JA1BWA	OZ1LO	V3MS	KH6ND	HK3A
1.8 MHz	—	JA5DQH	F8VJ	—	—	—
3.5 MHz	—	JA1SGX	DL1KB	—	—	—
7 MHz	EA9EU	JA8EAT	IØJX	HI8LC	—	—
14 MHz	J28DM	UAØSAU	YØ4GD	HI8CH	KG6DX	LU4DTJ
21 MHz	EA8ZZ	JH3PT	G3MXJ	XE2BC	ZK2BGD	LU8DO
28 MHz	—	JG1NBD	IØMGM	XE2BC	VK4XA	PY1BOA
QRP	EA8EY	JA1MCU	DL8CM	HP1XAT	—	YV2BE
Multi-single	—	JA9YBA	DLØAA	VP2E	AH6BK	FYØPOL
Multi-multi	—	JA7YAA	OH1AF	V2AMK	—	—



SM11ED (sitting), SM1JBM (l) and SM1ALH are all participants in the SK1BL cw multi-single operation. The saucepan on the desk is to rf-proof their keyer.

## SOAPBOX

My original intention was just to put in a few hours on 7 MHz to improve my 5BWAS totals. But, to this end, it proved a futile exercise. I need just four more states on 40 meters, but in spite of over 400 QSOs, I couldn't find even one of those needed states. Nevertheless it was thoroughly enjoyable with a creditable level of operating skill and courtesy from the stateside operators. . . I hope that we sounded as well on your side (G3NLY). [You sure did sound real fine from this end — Ed.] My results prove that contests can be fun. You don't have to break your neck to win; it's just loads of fun to participate (W7FGT). I leaned back and just laughed several times at the very polite operators (on cw) who broke in on the lower 25 kHz and sent "QRL?"; just where ain't it QRL down there during the DX contest? (N4AW/W5IUW). Please continue the single band categories, it gives us "water pistols" a chance to win an award (WA0ETC). My good friend "Murph" was sure on my case this year. Just as the JA path was opening up, a heavy rain caused all kinds of static for about two hours. QRN was S7 to S9, so even the "big ones" were difficult to work at times (KB4KA). How about DXpeditioning to Vermont, Delaware, Rhode Island or Wyoming next year? (VK2AYD/N3AFU). Once again, another fun time in spite of worsening propagation conditions. I'll sure hate to see 10 meters go south (N4FD). It's tough pitting my 10 watts against the kW stations, but it sure gives me a lot of satisfaction (DL2EF). There were excellent long path openings to the west coast on 14 MHz between 1500 and 1630Z on both days (cw) (G3PVA). . . one W station insisted that we were out of the band when we were on 14,195 kHz (FY0FOL/W6QL/W6KG). Thanks for the past four years of contesting from the "EL-land." I enjoyed every minute of them, especially after the rules and format were changed back to the original scheme. I take back to the states with me a lot of fine contest memories and three contest plaques, which I will always cherish (EL2AV). [Thank you, Tom, for four years of FB operating and that EL multiplier, which you made so easy to work. — Ed.] Why is there so much contest left at the end of the ambition? (K1UO). I still have problems with (other) DX stations not understanding that KL7 (and KH6) are also DX (KL7IDT). Started on 20 meters (phone) to do a single band entry, but decided that all-band competition would be more challenging. Wish that I had worked more on the low bands on the first night (I6NOA). The only thing that the U.S. stations could improve on is keeping up their dupe sheets (DLSBAN). Mainly, I'm QRV on 6 meters, but occasionally I QSY to 15 or 40 meters to work DX. Thus, I decided to try 15-meter single-band operation on phone in this contest. Thanks to the good conditions, I was able to work many U.S. stations with my modest equipment (JF2XPL). Also, my own personal annual problem was still in evidence as several stations raced away, logging my call as KH6JW. This will probably show itself in the log checking (KH6JWK). [It sure did! — Ed.]. Eliminate the signal report part of the exchange. It is meaningless as it is now used as part of the contest exchange (KP4EY/W3EAX). Well, the "big guns" didn't edge me off my frequency again this year. A narrow receiving filter and a monoband Yagi proved to be all the edge that I needed to hold a frequency. . . Went through six bottles of pop and a carton of cigarettes during the contest. Who said that Amateur Radio isn't hazardous to your health? (WB1CNM). The only state that I could not work during the contest was Vermont. Well, maybe next time (H18CH/KS2V). Nice to meet old friends again on all five bands (ZB2EO). Please let the DX stations know that I'll be back next year and I'll be happy to work all those who

## Affiliated Club Program

Unlimited Class	Score	Entries	CW Winner	Phone Winner
<b>Frankford Radio Club</b>	64,904,584	96	N2LT	W3BGN
Yankee Clipper Contest Club	56,883,453	80	K1GQ	W1ZM
Potomac Valley Radio Club	46,962,639	64	N2FB	N8II
Northern California DX Club	31,331,209	64	N6RO	K6RU
<b>Medium Class</b>				
<b>Murphy's Marauders</b>	20,859,930	35	AA2Z	AA2Z
North Texas Contest Club	12,265,540	32	K5RX	K5NW
Mad River Radio Club	8,988,684	7	K8NZ	WD8MRF
Texas DX Society	7,883,721	18	K5RC	KN5H
Northern Ohio Amateur Radio Society	7,576,650	37	K3LR	K3LR
Eastern Iowa DX Association	6,070,305	28	W0WVP	KB0PR
Colorado Contest Conspiracy	6,044,223	6	K0RF	W0ZV
Southern California DX Club	3,234,762	17	W6TMD	KM6B
Kansas DX Association	3,022,608	24	W0RT	WA0TKJ
Kansas City DX Club	2,821,506	11	N0TT	K0TLM
Rochester DX Association	2,699,604	22	W2TZ	W2TZ
Northern Illinois DX Association	2,628,870	19	W9RY	AI9J
Meridan Amateur Radio Club	1,952,553	12	W1KKF	N1API
Frazier Valley DX Club	1,949,709	3	—	WB7WQE
Columbus Amateur Radio Association	1,505,218	13	W8LNO	WD8RNC
Gloucester County Amateur Radio Club	1,497,132	10	W2YC	W2YC
Tri-State International DX Association	1,452,963	8	—	WA4EAV
Southeastern DX Club	1,436,730	8	KX4R	KX4R
Northern Ohio DX Association	1,427,514	14	N8BC	WD8MOV
Alamo DX Amigos	1,425,888	14	K5VNJ	W5KCR
Eastern Michigan Amateur Radio Club	1,395,002	13	—	AC8W
Fort Wayne Radio Club	1,323,810	3	—	W9KBV
South Jersey Radio Association	1,279,896	17	W2EA	W2FGY
Mississippi Valley DX and Contest Club	1,011,657	7	—	AC0N
Ventura County Amateur Radio Club	882,016	13	—	K6VMN
Grumman Amateur Radio Club	764,647	15	K2OB	WB2FMP
Bluegrass Amateur Radio Society	687,534	4	—	—
Morton Area DX Assn.	680,505	3	WB9JKI	—
Larkfield Amateur Radio Club	577,512	5	KK2E	—
Fox River Radio League	309,615	3	—	K9BQL
Long Island Mobile Amateur Radio Club	274,215	10	W2LPA	WA2JCX
Westpark Radiops	57,009	4	—	KC8F
<b>Local Class</b>				
<b>ILL Wind Contesters</b>	10,175,469	8	WD9IIX	WB9POH
Central Virginia Contest Club	10,012,785	6	—	W4IQ
Rubber Circle Contest Club	2,981,517	6	—	K7RI
Point Radio Operating Society	2,631,501	6	WB3KXX	K3UA
Albuquerque DX Assn.	2,306,091	9	AA5B	W5JW
Order of Boiled Owls of New York	1,906,152	6	K2LE	—
Red Stick DX Assn.	1,642,893	3	—	—
San Diego DX Club	1,629,294	10	W6UQF	N6ND
Lincoln Amateur Radio Club	1,399,980	3	—	—
Halifax Amateur Radio Club	1,290,931	4	—	—
North Alabama DX Club	1,266,255	4	—	N4KG
Neenah-Menasha Amateur Radio Club	1,161,831	3	—	—
Long Island DX Assn.	1,128,723	10	K2MFY	W2GKZ
Dauberville DX Assn.	1,118,280	10	KG3Q	N3CHL
River City Contesters	1,028,526	4	—	—
Flyweight DX Group	1,025,982	8	—	—
Lynchburg Amateur Radio Club	976,581	5	W4VBH	AA4KT
Acadiana DX Assn.	957,752	7	N4UA	—
Reading Radio Club	874,590	9	K3WGR	W5ZR
Willamette Valley DX Club	824,088	7	—	W3WJC
Overlook Mountain Amateur Radio Club	779,664	8	W2XL	WB7EEI
Central Arizona DX Assn.	695,472	5	—	—
Western Washington DX Club	676,320	8	AG7M	WB7FDO
Ashtabula County Amateur Radio Club	654,687	7	—	AG7M
Central Florida DX Assn.	609,399	5	NE4F	A18S
Sturdy Memorial Hospital Amateur Radio Club	518,457	8	K1ZZJ	K1LXJ
Radio Amateurs Club of Knoxville	501,873	3	—	—
Hollywood Amateur Radio Club	493,872	9	K8UNP/4	K8UNP/4
Southwest Ohio DX Association	446,892	3	—	—
Montgomery Amateur Radio Club	408,045	7	—	KC3H
Montrose Amateur Radio Club	344,607	6	—	KC0AT
Redwood Empire DX Club	321,327	9	K6ZUR	KB6ZA
Chautauga County Amateur FM Assn.	318,948	4	—	WB2YQO
Greater Milwaukee DX Assn.	294,426	8	—	KB9OC
Utica Amateur Radio Club	252,177	6	—	KJ2Q
Michigan DX Assn.	216,579	6	K8LJG	—
Four Lakes Amateur Radio Club	184,116	3	—	K9KVA
Central California DX Club	154,635	3	—	—
Split Rock Amateur Radio Assn.	144,999	5	—	WA4PFN/2
ARINC Amateur Radio Club	114,828	6	W3HVQ	—
Carbon Amateur Radio Club	63,873	4	—	—
Mid-Ohio Valley Amateur Radio Club	56,529	4	—	WD8CZA
Rappahannock Valley Radio Club	36,237	5	—	WA4EMU
South Florida DX Assn.	32,730	3	—	—
Harlan County Amateur Radio Club	31,767	5	KA4JMZ	—
Lake Success Radio Club	22,323	9	WA2ISH	WA2DZD
Southern California Contest Club	20,028	4	NE6I	—

need Wyoming (WB7RGN). . . it was fun logging and checking for dupes with the new microcomputer for the first time. Made us feel like the big multi-multi stations but on a small scale (KG9Z). I was the number two single operator all-band entry from Japan on phone last year and thought that I would try for the number one spot this year. The propagation just did not cooperate. The 40 meter band was much worse than last year. Next year, I would like to have an 80 meter antenna up in order to get more multipliers (JA3CZY). A way to limit CQing by Ws must be found — especially urgent in view of declining sunspot activity which will narrow the usable range of frequencies (P42J/W1BIH). I approached the contest as a learning experience and I did increase my code speed — I can now copy "599 KW" at 35 wpm (WA4HAD). Didn't really intend to do a full-blown entry this year, but just came on to give out the GW multiplier to a

few stations. Wound up spending 16-1/2 hours in the shack for the contest weekend and made more than 1800 QSOs. I was disappointed to find that 90 QSOs were repeat QSOs, and in some cases triplicates, on the same band even though I did not call any station, but stayed on the same frequency all the time. . . I had to pull the switch on big pileups as I was physically exhausted after working for many hours at 150 QSOs per hour (GW3NMF). I have always said that to make a big score running QRP you have to have outstanding conditions. How wrong I was (TG9GI). My second year as a single band (20 meters) phone entrant. I enjoy the FB operating by the W and VE types. My age is 15 years old (4X6DX). I'm in favor of reducing the operating time for single operator stations from 48 hours to 36 hours (OZ8T). I feel that this contest was a very good way for me to get back into ham radio after a 10 year absence (WB5LYT).

### WVE Call Area Leaders (QSOs/Multipliers)

Phone	160	80	40	20	15	10
<b>Single Operator</b>						
W1ZM (K1ZM)	2/2	68/43	90/50	483/91	693/91	1054/92
K2VV	—	36/31	69/47	481/74	404/84	1113/94
W3BGN	4/4	36/28	75/40	675/78	509/83	940/84
K4CG (K7SV)	1/1	36/28	86/52	306/86	262/78	475/92
W5JW	2/2	14/12	228/39	194/66	240/63	907/82
K6RU (N6BZA)	2/2	16/8	220/35	236/67	965/57	498/74
K7RI (WA1KKM)	1/1	25/7	207/18	215/54	1028/66	878/75
WA8YVR	—	39/31	79/44	507/68	357/69	1034/103
W9ZRX	2/2	22/16	98/53	307/69	443/80	1066/93
KØSCM	—	3/3	24/18	264/73	193/63	604/77
VE3BVD	3/3	36/26	58/43	363/74	494/81	966/90
<b>Multi-single</b>						
K10X	4/4	45/41	129/63	661/104	823/101	1385/116
<b>Multi-multi</b>						
W3LPL	8/7	88/50	234/74	996/122	1209/124	1952/130

### WVE Call Area Leaders (QSOs/Multipliers)

Phone	160	80	40	20	15	10
<b>Single Operator</b>						
K1GQ	7/7	114/48	301/62	432/75	416/66	424/70
N2LT	3/3	80/40	243/60	332/81	432/66	488/71
N3BB	—	81/40	213/57	292/60	498/64	568/63
W8ZF/4	1/1	48/30	144/61	203/59	236/54	330/52
K5RC (K5GN)	13/11	68/30	205/54	398/76	395/70	473/66
N6RO	4/3	141/28	385/66	284/67	464/72	359/65
N7DF	5/4	93/25	208/41	218/59	481/59	305/43
WA8TBQ	—	57/33	77/34	278/68	301/58	315/58
N8DE/9	—	13/12	96/45	123/51	201/57	222/52
KØRF (WØUA)	18/5	101/30	393/63	254/74	402/61	288/54
VE1AI	—	56/27	99/28	211/45	156/47	177/48
<b>Multi-single</b>						
K1ZZ	10/10	54/45	377/72	503/96	597/86	464/78
<b>Multi-multi</b>						
K2UA	17/19	252/68	722/83	781/113	954/103	729/88

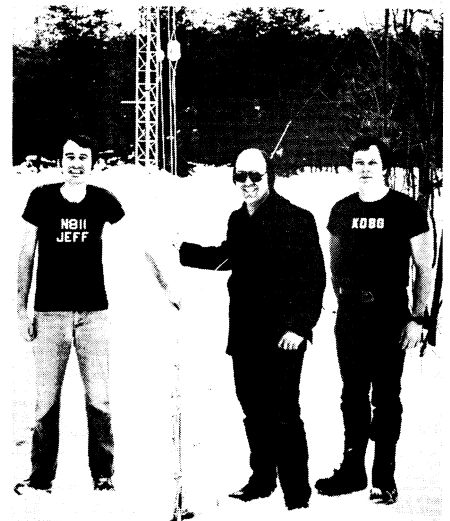
### DX Continental Leaders (QSOs/Multipliers)

Phone	160	80	40	20	15	10
<b>Single Operator</b>						
TYA11	—	52/16	488/46	554/49	743/45	921/55
JA3CZY	—	—	201/30	306/43	429/54	874/56
G3FXB	—	39/12	296/41	918/54	1265/55	1596/57
ZF2FL (N6RJ)	—	522/55	620/55	829/57	1019/57	2907/57
VK4VU	—	19/12	425/49	762/56	547/50	1147/57
P42J (W1BIH)	—	208/34	190/39	493/53	644/55	1355/57
<b>Multi-single</b>						
VP2E	63/36	467/55	922/56	1268/57	2780/57	4425/57
<b>Multi-multi</b>						
J3AVT	12/9	348/48	632/54	1170/56	1151/57	2879/57
<b>CW</b>						
<b>Single Operator</b>						
EL2AV	—	21/13	165/36	356/44	472/42	692/47
JA1BWA	—	73/19	147/28	407/51	349/47	325/44
OZ1LO	—	90/20	299/45	834/53	552/49	632/45
V3MS (WØCP)	92/35	438/49	826/53	1042/55	1045/55	1023/52
KH6ND	31/17	327/47	517/50	375/51	849/55	846/53
HK3A (K3ZO)	—	412/47	580/50	1339/55	937/52	1334/55
<b>Multi-single</b>						
VP2E	147/39	369/50	624/54	1535/56	1477/56	1947/55
<b>Multi-multi</b>						
V2AMK	161/37	485/47	554/52	1170/54	1063/54	1477/55

### FEEDBACK

Please note the following corrections to the 1981 ARRL International DX Contest on pages 81-94 of October 1981 QST. **Phone:** KA1GG at 178,263 points was omitted and should be the top Eastern Massachusetts 10M score. KB2SG in Western New York was listed as a 40M single-band entry. He should have been listed as the top 20M scorer. The top score among the multi-singles in 6-land should have been AA6T. In Minnesota, WØUC, should have been listed in the number two all-band position with a linescore of 229,905-393-195-B. G3NT, listed as an all-band score, should have been listed as the top 15M entrant from

England. G4ANT, the world high scorer in the multi-multi class, should have had the following linescore: 3,479,304-4999-232-C. JA2YKA, listed as the top JA multi-single scorer, should have been listed in the multi-multi class, making them the number two m/m score in Japan. JA1ZLO is the top multi-single. **CW:** AC2U at 206,901 points should have been listed as the top 10M score in the Northern New Jersey Section. N2DT, listed as the 20M top scorer in the NLI Section, should have been listed as the number two 10M score in Eastern New York. W5XZ was incorrectly listed as a multi-multi entry. They should really have been listed as the number two-multi-single in the fifth call area. WD9IIC at 158,850 points in the Illinois all-



Half of the N8II multi-single cw team — N8II, KC8C and KD8G. (WB8UDY photo)



Andri, YC2BSF, took top Oceania phone honors on 15 meters.

band listings should be listed as the number two 10m score from Illinois. WØUC not KBØRC should be listed as the Dakota Division cw winner. VE3CUI is not an 80M entry and should have been listed as a 40 meter monoband entry. WB6SHL (NC6T, opr.) at 217,008 points should have been listed as the top all-band entrant from the Orange Section. K7NHV should have been listed as the seventh call-area leader instead of N7DF. The call sign of the top all-band score from Switzerland is HB9AGH not HB9AGN. JA7YAA listed as the top multi-single scorer from Japan should be listed as the top multi-multi score. JA7YAF is the top multi-single.

### SCORES

The scores are listed by mode — phone and cw. For both W/VE and DX scores, single operators are listed first, followed by multioperator, single transmitter and then multioperator, multi transmitter. W/VE single operator scores are broken down by call area and ARRL section. W/VE multi-single scores are broken down by call area only. All W/VE multi-multi scores are grouped together in descending order by score. DX single op, multi-single and multi-multi scores are broken down by continent and country. Under each section and country, single op scores are listed in descending order by category, all band first and then 160-, 80-, 40-, 20-, 15- and 10-meter single-band scores. QRP scores follow single band. The line score gives call, score, QSOs, multipliers and power input used (A = 10 W or less; B = 11-200 W; C = more than 200 W). The first station in each category has a designator following the power (AB indicates all band; single-bands are indicated by 160, 80, 40, 20, 15 and 10; QRP entries are indicated as QRP). Example: In Connecticut, the top phone all-band scorer is W1ZM; the top low power (200 W or less) entrant is K1JX; KE1F has the top 80M single-band score, K1BNQ the top 40m, K1KI the top 20m, K1RM the top 15m, WB1CZX the top 10m and KA1CZF the top QRP score. W/VE multi-single and multi-multi entries have their ARRL section abbreviations listed after their power designator.



W/VE-PHONE

Single Operator

Connecticut

Eastern Massachusetts

Maine

New Hampshire

Rhode Island

Vermont

Western Massachusetts

2

Eastern New York

New York City-L.I.

Northern New Jersey

Southern New Jersey

Western New York

WA2PHA 13,578-73-62-B
KS21 12,960-72-60-C
WB2MVF 10,206-62-54-C
WA2EKK 83,272-77-37-C
W2FE 7,772-59-36-B
KA2CE 10,032-76-44-C
WA2ORX 56,433-57-33-C
WA2ETU 69,668-306-78-C-20
K3F 35,490-159-73-C
W2HFF 88,914-406-73-C-15
WA2LOG 45,426-226-67-C
K2E1 35,685-183-65-B
N2FI 81,900-70-39-B
KE2C (N2AU,opr.)
W3WJ 355,740-1210-98-C-10
KB2S 164,736-624-88-C
WB2ZEL 123,576-76-76-C
N2CUW 29,400-200-49-C
K2IM 11,058-97-38-C
K2B 5208-62-28-B
N2US 111,870-330-113-A-QRP

Delaware

Eastern Pennsylvania

Northern Florida

Southern Florida

Maryland-D.C.

Tennessee

Virginia

Western Pennsylvania

Alabama

W5INL 60,912-282-72-C-10
WA4VEK 30,300-202-50-B
N4KG 371,448-616-201-A-QRP

Georgia

Kentucky

North Carolina

Northern California

South Carolina

Southern California

Oklahoma

Southern Texas

Texas

K5GEO 36,477-193-63-B-10
KA9EL 33,696-216-52-C

Louisiana

Mississippi

New Mexico

Northern Texas

Oklahoma

Southern Texas

Texas

Virginia

Western Pennsylvania

Alabama

Arkansas

California

Colorado

Florida

Georgia

Illinois

Indiana

Iowa

Kansas

Kentucky

Louisiana

Maine

Maryland

Massachusetts

Michigan

Minnesota

Mississippi

Missouri

Montana

Nebraska

Nevada

New Hampshire

New Jersey

New Mexico

New York

North Carolina

North Dakota

Ohio

Oklahoma









**W/V/E - CW**

**Single Operator**

**1**

**Connecticut**

AAZZ/1	939,072-1168-268-C-AB
KJZZ	800,664-914-292-B
KING (K1G, opr.)	624,492-913-228-C
KIDD	157,896-408-129-C
K1YRP	142,857-333-143-B
K1DM	113,184-288-131-C
W1RM	98,490-245-134-C
W1AB	88,310-229-130-C
W1VW	88,920-247-120-C
W1GNO	76,230-231-110-B
K1RM	75,480-340-174-C
W1GNR	73,950-290-85-C
W1VH	45,390-178-85-C
N1BLL	39,600-150-88-C
W9GMS	7656-58-44-C
W1EWD	3552-37-32-B
W1ZM (K1ZM, opr.)	48,768-254-64-C-80
K1FI	287,712-864-111-C-20
K1EFI	113,262-439-86-C
W1FCN	71,832-292-82-B
K1XA	183,762-747-82-C-15
K1EM	135,171-653-69-C
K1EVH	10,692-81-44-B
W1WEF	145,044-612-79-C-10
N1BMV	40,356-228-59-B
K1CZF	53,088-154-112-A-QRP
K8CH	15,900-100-53-A
W1FD	1026-19-18-A

**Eastern Massachusetts**

K1DG	1,133,088-1276-296-C-AB
W1IHN	922,320-1220-252-C
W1FJ	594,711-897-221-C
KG1E	458,298-738-207-C
W1KM	301,344-688-146-C
K1MEM	280,908-459-204-C
K1CX	117,780-302-130-C
W1FM	115,676-258-124-C
N1AU	95,976-258-124-C
K1JCLV	93,654-242-129-B
K1ED	32,292-138-78-B
KB1Q	14,820-95-52-C
W1OPJ	6993-63-37-B
KD1U	6660-74-30-B
W1IUI	6300-50-42-C
K1ZZJ	5565-53-35-B
W1PLJ	114-17-14-C
W1BB	624-16-13-B-160
K1PT	39,936-208-64-C-80
K1VUT	912-19-16-C-40
W1WAI	137,445-539-85-C-20
K1GSK (WB1FF, opr.)	132,912-624-71-C-15
WB1CNM	89,664-467-64-C
W1BET	2376-33-24-B

**Maine**

K1JB	156,972-412-127-C-AB
WB1GLH	66,150-210-105-B
KB1U	6264-58-36-C
KA1MP	3969-49-27-C-15
KF1H	13,680-80-57-A-QRP
N1AFC	7965-59-45-A

**New Hampshire**

K1GQ	1,665,912-1693-328-C-AB
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**Western Massachusetts**

W1LQQ	135,720-290-156-C
W1END	129,600-320-135-C
K2XLEY	124,000-338-127-B
W1JSM	19,836-114-58-C
K1NH	14,355-87-55-B
W1YTW	243-9-9-C
W1YH	45,360-240-63-C-40

**Rhode Island**

W1GL	526,851-741-237-B-AB
W1RFQ	50,505-185-91-C
K1V5J	4869-54-30-C
K1JA	30,240-168-60-C-40

**Vermont**

W1KQ	10,710-105-34-C-10
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**Western Massachusetts**

W1ZT	556,227-763-243-C-AB
W1GG	545,642-862-211-C
K1BW	494,206-701-235-C
A115	441,408-704-67-B
KB1W	227,088-456-166-C
KA1T	85,680-240-119-B
W1AUT	41,184-208-66-C

**2**

**Eastern New York**

W21B	1,298,151-1487-291-C-AB
K2OY (N1EE, opr.)	768,996-1042-246-C
W2XL	602,070-954-235-C
W2AG	447,834-739-202-C
AF2O	438,420-619-236-C
N2CAP	219,294-393-186-B
KD9H	125,145-309-135-C
K12V	103,462-233-148-C
KA2MNI	84,942-242-117-B
W2AWF	84,132-228-123-C
WA2LJM	65,508-212-103-C
AF2D	44,877-174-95-C
W2DW	25,330-115-74-C
N2EK	3456-36-32-B
KK2A	3198-41-26-C
AK2H	2028-26-26-B
K2HA	1872-26-24-B
K2RD	161,730-599-90-C-20
W2KHQ	19,278-126-51-B
K2JV	64,155-329-65-B-15
K2MN	20,139-137-49-B

**New York City-L.I.**

N2GC	889,314-1102-269-C-AB
K2LE	870,480-1040-279-C
W2GGE	481,740-696-230-C
K2MFY	398,682-621-214-B
K2ZE	318,060-589-180-C
KA2AEV	289,962-543-178-B
W2GKZ	160,881-329-163-C
K2SHL	100,215-255-131-C
W2LPA	88,665-257-115-B
KG2A	27,864-108-86-C
N2RGM	26,136-121-72-B
W2111	6630-65-34-C
K2CNF	5733-49-39-B
K2CMV	5520-46-40-B
WA215H	4488-44-34-B
W2N	2214-41-18-C
W25GK	1083-19-19-C
WA21CX	240-10-8-B
N2RQ	27-3-B
W2ER	12,168-104-39-C-80
N2KA	330-11-10-C
K25X	39,420-219-60-C-40
W21JN	25,560-142-60-C
K2PA	13,332-101-44-C
K2QB	7128-72-33-C-20
N2RO	36-4-3-C
W2AVJ	88,800-400-74-C-15
KC2DH	2277-33-23-B
W2CZK	75-5-5-B
W21AMU	28,875-175-55-B-10
WB2DLA	4320-48-30-B
WB2ENW	44,892-172-87-A-QRP

**Northern New Jersey**

N21T	1,519,614-1578-321-C-AB
W2RQ	1,292,484-1517-284-C
W2VJN	1,015,839-1023-331-C
K30X	544,320-810-224-C
K2N1	456,217-724-210-C
K2BK	409,266-689-198-C
W1GD	312,696-516-202-C
N2FT	40,950-150-91-B
KQCO	24,765-127-65-C
K2BLA	22,374-113-66-B
N2CKF	11,715-71-55-B
WA2ASQ	8601-61-47-B
KT2D	2139-31-23-B
W2UL	5-5-B
KD2I	39,240-218-60-C-40
KJ2N	2520-40-21-B
KR2J	84,864-42-64-C-15
WB2EG1	60,030-345-8-C
K2FE	204,168-164-49-C
KA2LEB	10,578-86-41-C-10
AC2J	272,766-538-169-A-QRP
KR2Q	219,762-421-174-A
K2RF	546-14-13-A
W2JEK	147-7-7-A

**Southern New Jersey**

W2Y	749,580-961-260-C-AB
N2MR	298,035-555-79-C
W2EA	163,680-341-160-B
K2QIL	159,210-366-145-C
W2PAU	93,093-217-143-C
K2HPV	52,650-195-90-B
W2BLV	29,016-124-78-B
WA2VYA	24,072-118-68-B
WB2SJA	16,356-94-58-B
W2KX	14,877-57-8-C
WB2VFT	2046-11-22-B-80
W2BHK	17,856-124-48-C-40
W2AQP	2638-38-23-C-20
WB2GSD	1936-83-15-B-10
WB2GES	1920-32-20-B

**Western New York**

W2TZ	659,097-927-237-B-AB
W8VU/2	226,719-458-165-C
K12P	213,500-450-159-C
W2FTY	173,304-348-166-B
K2NV	103,875-277-125-C
K2SD	86,378-244-138-C
W2FUI	67,980-720-103-B
KQ2N	49,551-199-83-B
KB25G	46,800-150-104-B
W2PHT	43,362-146-99-B
KB2NU	26,130-130-67-C
KA21BT	23,760-110-72-C
AK2O	15,210-78-65-B
KA2FEW	8100-60-45-B
WA2LEZ	2016-28-24-B
K2UAN	945-21-15-B
W2ABM	45,369-213-71-C-20
W2HG	25,311-142-59-C
K2ZF	12,000-62-12-B
WB2SZY	13,806-118-39-B-15
K2K1R	76,296-374-68-C-10
WA2ABN	29,780-180-55-B
KA2GV	29,288-98-55-B-QRP
N2US	16,335-99-55-A

**3**

**Delaware**

K3HBP	44,589-167-89-C-AB
AA1K	192-8-8-B-160
K3JL	7326-74-33-B-15

**Eastern Pennsylvania**

N3BB	1,407,504-1652-284-C-AB
N3AD	1,373,568-1568-292-C
N3RS	1,158,948-1323-292-C
W3AP	1,050,195-1321-265-C
K3ED	1,004,256-1268-264-C
K3OO	612,306-782-261-C
W3ARK	356,562-639-186-B
K3IE	277,633-541-171-C
W3KT	250,974-438-191-C
W3GK	249,975-505-165-C

**Western Pennsylvania**

K3KV	225,675-425-177-C
K4JLD/3	201,279-397-169-C
K3EVW	164,824-335-164-C
W3MA	150,876-381-132-C
WA3SZV	127,530-327-130-C
W3KFD	125,244-2940142-C
K3DY	109,626-302-121-C
N3VV	95,937-283-133-C
N3AW	95,937-283-133-C
K3WGR	94,860-255-124-B
K311	79,200-220-120-B
AJ3H	75,210-218-115-B
K3NL	63,450-225-94-C
W3SOH	60,000-200-101-B
K3VYA	60,375-161-125-B
WA3IMY	43,440-181-80-C
W3GRS	42,024-136-103-C
K3FMF	19,800-100-66-C
W3EQA	14,442-83-58-C
W3HMY	12,831-91-47-C
W3HMR	9045-67-45-C
W3CEI	5100-50-34-B
WB3JZE	4968-46-36-B
AF3Z	4257-43-33-B
KA3ZGL	3267-39-28-B
KA3GRC	1311-23-19-B
WB3KIL	630-15-14-B
K3N	33,849-21-53-C-40
KG3Q	5568-64-29-B-20
W3WJC	3276-42-26-C
K3FN	32,736-176-62-B-10
KA3CRC	13,824-96-48-A-QRP

**Maryland-D.C.**

N2FB	1,049,760-1296-270-C-AB
K3SA	799,290-1070-249-C
N3AM	586,845-945-207-C
K3XW	548,806-806-227-C
N3RL	398,790-630-211-C
K3ZZ	398,772-583-228-C
K3TC	365,148-588-207-C
K3JG	328,310-565-194-C
W3AZ	273,780-540-169-C
W31CM	240,408-504-159-C
K3JNCO	101,928-248-137-B
K7JBQ	19,788-97-68-B
W3EE	10,920-65-56-B
W3TUX	741-19-13-B
W3HVQ	38,016-264-48-C-40
N3AU	18,181-118-51-C
K3CH	19,241-71-5-B-20
K3TW	43,176-257-56-C-15
WA3VPL	16,272-113-48-B
K3RV	8,620-35-25-B
KD3U	5508-68-27-A-QRP

**Western Pennsylvania**

K3LR	1,288,056-1394-308-C-AB
WB3KKX	192,270-377-170-B
W9KTP	51,360-160-107-C
K31U	27,594-126-73-B
W31W	20,862-122-57-C
KA3HGR	960-20-16-B
K3JUR	58,860-327-60-C-10
KA3P	14,784-112-44-B

**4**

**Alabama**

KR4F	291,057-439-221-C-AB
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**Georgia**

W8ZF/4	741,402-962-257-C-AB
N4TZ	548,856-756-242-C
KX4R	344,760-650-221-C
K4BAI	129,168-312-138-C
NR4K	92,352-208-148-C
W44AH	20,160-113-60-B
N4RJ	84,888-393-72-C-40
K4VT	9393-101-31-C
W4JFL	15,486-89-58-B-15
W4DXI	13,776-112-41-C-10
W4GLS	5040-56-30-B

**Kentucky**

WA4QMQ	221,544-408-181-C-AB
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**North Carolina**

N1GL/4	125,235-363-115-C
NW4P	54,054-198-91-B
WA4GAC	3780-42-30-B
K4FV	50,820-242-70-C-40
KA4HWG	3000-40-25-B
WA4GHO	74,385-285-87-C-20
ND4J	19,626-302-121-C
K4JEX	31,351-156-67-C-20
KA4JUZ	21,945-133-55-B-15
WB4PRU	68,904-348-66-C-10

**North Carolina**

N4AA	416,016-648-214-C-AB
W1FTX/4	45,936-132-116-B
W4ZZ	7114-17-14-C
N4SU	585-15-13-B-160
N4SF	10,908-101-36-C-80
N4FD	8811-89-33-C-40
KA4YZA	6450-50-43-A-QRP

**Northern Florida**

W4WKQ	182,574-441-138-C-AB
NE4F	143,439-349-137-C
W4FGF	20,070-210-107-C
N4WW	3300-44-25-B-160
WA45VO	22,440-136-55-B-80
W4DFU (WB6ZEC, opr.)	12,810-138-54-C
K3NN/4	55,878-278-67-C-40
W4VQ	

K4OD	27,360	120	76-C
W4E1	20,400	100	68-C
KA4RLJ	15,876	98	54-B
N30S	15,100	30	53-B
K2EKM/4	7,200	60	40-B
N1JQ	15,972	121	44-C-40
K4CTY	106,410	393	90-C-20
N4XD	46,699	283	55-C
AAAM	18,000	125	48-C
W4NM	8,992	78	38-B
K82P/4	2,186	48	36-B
W4HBK	46,200	250	68-B-15
N4MM	25,572	148	58-C
WB4DNL	5,712	56	34-B-10
W4KFC	10,416	62	56-A-QRP

**5**

Arkansas			
N5DX	87,354	211-138-C-AB	
W5E1J	10,710	70	51-C
K5UR	810	18	15-B-160
Louisiana			
K5KU	1,003,008	1306-256-C-AB	
K5KLA	575,445	845-227-C	
W5IGD	186,438	386-161-C	
W50B	121,380	289-140-C	
W5XZ	20,296	144	53-C-80
W5WMU	18,144	126	48-C
Mississippi			
W5OYU	113,424	272-139-C-AB	
W5AQ	66,420	205-108-C	
K5DWE	1296	27	16-B
New Mexico			
W5FS	115,752	364-106-C-AB	
KT5X	28,305	185	51-C-40
K5TA	155,448	508-102-C-20	
AA5B	186,993	789	79-C-15
W5TVX	40,786	176	37-B
AG5S	7395	85	29-B-10
KN5D	120,756	347-116-A-QRP	

Northern Texas			
K5RX (KM5R, opr.)	642,880	826-260-C-AB	
K5NW	641,604	842-254-C	
N5JB	587,946	899-218-C	
K5AW	227,484	534-142-C	
W5VZL	82,200	74	100-C
K5AQ	77,028	262	98-C
W5GN	61,845	217	95-C
W50F	48,095	178	84-B
N5UA	44,114	173	85-C
KT5Q	38,400	128-100-B	
KV5B	33,180	140	79-C
K5CQJ/5	22,722	116	64-C
W5UDA	22,722	116	64-C
W5LKP	5967	51	39-B
W5FO	5508	54	34-C-20
W5VX	8752	148	94-B-10
W5BUDX	36,294	263	46-B
K5G5FJ	10,080	112	30-C

Oklahoma			
KM5H	333,408	604-184-C-AB	
K5WE	5247	53	33-C-20
Southern Texas			
K5RX (K5GN, opr.)	1,429,392	1552-307-C-AB	
N5AW	709,686	886-267-B	
K5VNI	641,604	842-254-C	
W5ASP	176,664	433-136-B	
W5JC	134,784	312-144-C	
W5BE	53,562	158-113-C	
W5KCR	48,780	173	94-C
W5PF	40,365	117-115-B	
W5MMD	32,760	156	70-C
W5NR	27,939	139	67-C
W5PWG	25,200	140	66-B
W5OOD	21,924	116	63-C
W5EJT	15,480	86	60-B
K5DX	12,432	74	56-C
N5HB	7434	59	42-B
K5SA	6138	66	31-C
W5A1YX	990	22	15-B
KA5GVW	378	14	9-B
N5BA	5124	61	28-C-80
K5BZU	900	20	15-C
K5IY (KN5H, opr.)	181,152	593-102-C-20	
K5WA	124,650	554	75-C-15
K5SF	85,680	408	70-C
AD5Q	84,348	396	71-C
WB5WHR	124,392	568	73-C-10
K5RF	27,924	179	52-C
K5SNO	5220	60	29-C

**6**

East Bay			
N6RO	1,478,211	1637-301-C-AB	
K6HIH	1,451,116	417-116-C	
W6EYC	21,672	129	56-C
K6CSL	17,700	169	29-B
KA6DSW	29,370	178	55-C-20
W6BSY	51,030	315	54-C-15
K6VI	39,900	266	50-C-10
WB6FCR	9261	147	21-C
K6SQ	306	34	3-B
Los Angeles			
KJ6F	44,517	209	71-C-AB
NE6I	16,092	149	36-C
N6DWW	145,632	656	74-C-15
W6NNV	918	18	17-C-10
Orange			
WA6JAH	438,768	831-176-C-AB	
W6TMD	224,595	465-161-C	
WA6LFF	102,258	299-114-B	
K6OS	98,226	321-102-C	
W6BA	62,544	366-102-C	
AC6H	44,919	217	69-C
K6GLF	27,300	140	65-B
NE6PE	1350	25	18-C-80
W6HJ	14,190	110	43-B-20

Northern Texas			
K5RX (KM5R, opr.)	642,880	826-260-C-AB	
K5NW	641,604	842-254-C	
N5JB	587,946	899-218-C	
K5AW	227,484	534-142-C	
W5VZL	82,200	74	100-C
K5AQ	77,028	262	98-C
W5GN	61,845	217	95-C
W50F	48,095	178	84-B
N5UA	44,114	173	85-C
KT5Q	38,400	128-100-B	
KV5B	33,180	140	79-C
K5CQJ/5	22,722	116	64-C
W5UDA	22,722	116	64-C
W5LKP	5967	51	39-B
W5FO	5508	54	34-C-20
W5VX	8752	148	94-B-10
W5BUDX	36,294	263	46-B
K5G5FJ	10,080	112	30-C

Oklahoma			
KM5H	333,408	604-184-C-AB	
K5WE	5247	53	33-C-20
Southern Texas			
K5RX (K5GN, opr.)	1,429,392	1552-307-C-AB	
N5AW	709,686	886-267-B	
K5VNI	641,604	842-254-C	
W5ASP	176,664	433-136-B	
W5JC	134,784	312-144-C	
W5BE	53,562	158-113-C	
W5KCR	48,780	173	94-C
W5PF	40,365	117-115-B	
W5MMD	32,760	156	70-C
W5NR	27,939	139	67-C
W5PWG	25,200	140	66-B
W5OOD	21,924	116	63-C
W5EJT	15,480	86	60-B
K5DX	12,432	74	56-C
N5HB	7434	59	42-B
K5SA	6138	66	31-C
W5A1YX	990	22	15-B
KA5GVW	378	14	9-B
N5BA	5124	61	28-C-80
K5BZU	900	20	15-C
K5IY (KN5H, opr.)	181,152	593-102-C-20	
K5WA	124,650	554	75-C-15
K5SF	85,680	408	70-C
AD5Q	84,348	396	71-C
WB5WHR	124,392	568	73-C-10
K5RF	27,924	179	52-C
K5SNO	5220	60	29-C

**6**

East Bay			
N6RO	1,478,211	1637-301-C-AB	
K6HIH	1,451,116	417-116-C	
W6EYC	21,672	129	56-C
K6CSL	17,700	169	29-B
KA6DSW	29,370	178	55-C-20
W6BSY	51,030	315	54-C-15
K6VI	39,900	266	50-C-10
WB6FCR	9261	147	21-C
K6SQ	306	34	3-B
Los Angeles			
KJ6F	44,517	209	71-C-AB
NE6I	16,092	149	36-C
N6DWW	145,632	656	74-C-15
W6NNV	918	18	17-C-10
Orange			
WA6JAH	438,768	831-176-C-AB	
W6TMD	224,595	465-161-C	
WA6LFF	102,258	299-114-B	
K6OS	98,226	321-102-C	
W6BA	62,544	366-102-C	
AC6H	44,919	217	69-C
K6GLF	27,300	140	65-B
NE6PE	1350	25	18-C-80
W6HJ	14,190	110	43-B-20

Northern Texas			
K5RX (KM5R, opr.)	642,880	826-260-C-AB	
K5NW	641,604	842-254-C	
N5JB	587,946	899-218-C	
K5AW	227,484	534-142-C	
W5VZL	82,200	74	100-C
K5AQ	77,028	262	98-C
W5GN	61,845	217	95-C
W50F	48,095	178	84-B
N5UA	44,114	173	85-C
KT5Q	38,400	128-100-B	
KV5B	33,180	140	79-C
K5CQJ/5	22,722	116	64-C
W5UDA	22,722	116	64-C
W5LKP	5967	51	39-B
W5FO	5508	54	34-C-20
W5VX	8752	148	94-B-10
W5BUDX	36,294	263	46-B
K5G5FJ	10,080	112	30-C

Oklahoma			
KM5H	333,408	604-184-C-AB	
K5WE	5247	53	33-C-20
Southern Texas			
K5RX (K5GN, opr.)	1,429,392	1552-307-C-AB	
N5AW	709,686	886-267-B	
K5VNI	641,604	842-254-C	
W5ASP	176,664	433-136-B	
W5JC	134,784	312-144-C	
W5BE	53,562	158-113-C	
W5KCR	48,780	173	94-C
W5PF	40,365	117-115-B	
W5MMD	32,760	156	70-C
W5NR	27,939	139	67-C
W5PWG	25,200	140	66-B
W5OOD	21,924	116	63-C
W5EJT	15,480	86	60-B
K5DX	12,432	74	56-C
N5HB	7434	59	42-B
K5SA	6138	66	31-C
W5A1YX	990	22	15-B
KA5GVW	378	14	9-B
N5BA	5124	61	28-C-80
K5BZU	900	20	15-C
K5IY (KN5H, opr.)	181,152	593-102-C-20	
K5WA	124,650	554	75-C-15
K5SF	85,680	408	70-C
AD5Q	84,348	396	71-C
WB5WHR	124,392	568	73-C-10
K5RF	27,924	179	52-C
K5SNO	5220	60	29-C

Northern Texas			
K5RX (KM5R, opr.)	642,880	826-260-C-AB	
K5NW	641,604	842-254-C	
N5JB	587,946	899-218-C	
K5AW	227,484	534-142-C	
W5VZL	82,200	74	100-C
K5AQ	77,028	262	98-C
W5GN	61,845	217	95-C
W50F	48,095	178	84-B
N5UA	44,114	173	85-C
KT5Q	38,400	128-100-B	
KV5B	33,180	140	79-C
K5CQJ/5	22,722	116	64-C
W5UDA	22,722	116	64-C
W5LKP	5967	51	39-B
W5FO	5508	54	34-C-20
W5VX	8752	148	94-B-10
W5BUDX	36,294	263	46-B
K5G5FJ	10,080	112	30-C

NF6H	152,532	669	76-C-15
N6MU	147,360	614	80-C
Wyoming			
KA7JGX	2925	65	15-B-AB
Michigan			
WA8TBQ	774,084	1028-251-C-AB	
A18D	758,160	1053-240-C	
WA8UQK	481,800	803-200-C	
K8PUJ	109,062	249-146-C	
W8VWU	93,264	268-166-B	
K0SP	83,160	252-110-B	
K8LJG	67,704	217-104-C	
W8TJ	46,248	188	82-B
W8CRV	13,629	77	59-C
K0BS	13,572	27	52-B
K8QWJ	7308	84	29-B
W8FM	2340	30	26-C
W8UVZ	42,816	223	64-C-40
W8TWA	18,000	120	50-C
K8YWI	4959	57	29-C-20
N8UM	184,464	732	84-C-15
W8BARS	11,616	88	44-C
W8VSK	97,200	240-135-A-QRP	
N8CQA	2808	36	26-A

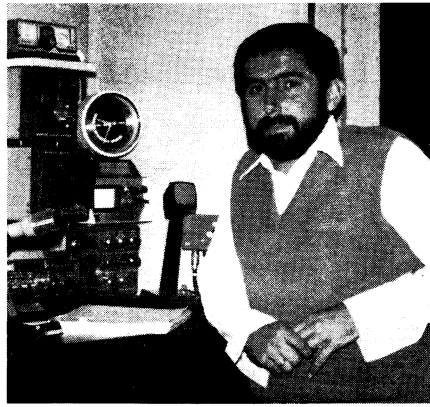
San Diego			
W6UQF	339,228	698-162-B-AB	
KD9E/6	215,784	444-162-C	
K6TQ	53,592	203	88-C
W6ABT	18,018	78	77-B
A6EE	13,920	116	40-C
N6ND	14,136	152	31-C-80
WA6DBC	118,680	460	86-C-20
K6XT	113,724	468	81-C
W6ZT	66,960	85	30-B
KD6WH	10,200	100	34-A-QRP

San Francisco			
K6ANP	410,136	743-184-C-AB	
W6WB	153,873	369-139-C	
K6ZUR	34,020	199	57-B
K6LRN	24,966	114	73-C
KD6GC	20,049	163	41-B
K6BHT	3159	39	27-C
A6E	2967	43	27-B
NA6V	378	21	6-C
K6BZA	3105	69	15-B-10

San Joaquin Valley			
N6GG	560,520	865-216-C-AB	
W6BYH	49,590	174	95-C
W6BVM			



K5GN operated K5RC to a fourth-place (WVE) finish on cw. (K5RC photo)



EA9IE, Juan, posted the top 40-meter mono-band phone score from Africa.



LA6ZV, operated by Ole, made the top cw score from Norway.

W6GO (+ Net) 501,216- 736-227-C-SV	WA9BWW, WB9LTY) 3,235,392-2624-411-C-IND K9GL (+K9S BG, KM, HMB, NO, PW, RS, VV, KJ9W, W9TM, WB9S, CAS, TIY, WD9IIC) 3,090,204-2556-403-C-IL N6S, TX, NB6G, W6S, DD, NV, OWQ, W6S, DIL, OT, VEF) 2,737,896-2653-344-C-SV K4PQL (+K4K, K3IU, W3FG, K4PQL, K7SV) 2,698,188-2183-412-C-VA W3GM (+WB2YOF, K3S, GM, ND, OA, RL, WW, N3AMK, W3FV) 2,584,458-2143-402-C-EPA KN6M (+KB6YF, KD6T, N6S, BPL, W0, W6SZN, WA6S, AVS, SLO, WB6NM) 2,374,740-2505-316-C-EB K3ZUF (+K3NZ, KF3R, W3S, MM, RJ) 2,159,163-1899-379-C-EPA W1YN (+AG1C, AK1A, KA1O) 1,972,884-2036-323-C-EM N5RM (+N4QS, AA5C, K5S, HM, MM, KM5X, N5B, O, N5S, BG, NO, W0, UO, WA0RBW) 1,506,240-1569-320-C-STX W0A1H9 (+K89S, KC9A, K0S, FVF, PK, TG, KM0O, N0S, BG, NO, W0, UO, WA0RBW) 1,405,242-1473-318-C-WI K6ZM (+AK6S, P, T, KH6S, NB6L) 905,040-1257-240-C-EB W4CN (+K4T, X, KC4S, HB, MK, WQ, KD4U, N4S, TR, TV, XM, NA4D, NF4R, NM4K, NO4R) 669,123- 903-247-C-KY K3CY (+W3JG) 372,096- 608-204-C-EPA	JH1MTR 83,304- 312- 89-B JR1CFG 77,526- 354- 73-B JQ1ICG 70,692- 124- 86-B JA10HP 41,976- 212- 66-B JK1VXH 39,240- 218- 60-B JA6LDD 32,844- 161- 68-C JA1BSU 30,798- 177- 58-B JR4SK 29,253- 199- 48-B JA1KXT 28,644- 154- 62-B JR77JP 23,001- 187- 41-B JA1BZM 19,257- 131- 49-B JA7KCD/1 15,147- 99- 51-B JA7ARW/1 14,274- 122- 39-B JA1BWS 9300- 100- 31-B JA7MK 8976- 88- 34-B JA9FT 7029- 71- 33-C JA3FUL 4452- 53- 28-B JA2SAP/1 1989- 51- 13-B JK1TLP 1539- 27- 19-B JA1KEG 1411- 12- 4-B UL1EJO 522- 23- 8-B JA5DQH 528- 22- 8-C-160 JA1BK 396- 22- 6-C JE1SPY 168- 14- 4-C JA1SGX 13,920- 145- 32-80 JA8EAT 27,816- 244- 38-40 JH7BD5 13,824- 144- 32-C JA9RYL 11,346- 61- 22-B JA2LXK 8910- 99- 30-B J11QI 2700- 50- 18-B JH8JYV 2520- 56- 15-B JA1VHB 1491- 12- 4-B JA1QZC 864- 36- 8-B JA1OZT 756- 28- 9-B JG3CKF 486- 27- 6-B JH2CYV 350- 15- 16-B JA3BCT 345- 23- 5-B JE6PWW 315- 21- 5-B JA0GZ 180- 15- 5-B JA0HJA 101,472- 604- 56-20 JA5JCC 73,440- 480- 51-C JA2EIV 52,932- 401- 44-C JA0CGJ 34,317- 279- 41-B JG1WOC 106,326- 638- 51-A JA1PS 12,768- 133- 32-B JF1MYI 12,576- 131- 32-B JG1UPO 7905- 85- 31-B JG1UQO 7812- 84- 31-B JA9NLE 5908- 68- 27-B JH3LPT 140,454- 867- 54-15 JA1FWR 122,148- 783- 52-C JH1KUV 106,326- 638- 51-A JH3CXL 98,400- 656- 50-C JA2VUP 97,200- 648- 50-C JA1CFJ 93,942- 614- 51-C JH1WOC 83,506- 557- 50-B JH7VHZ 77,571- 507- 51-B JA3MXE 41,652- 356- 39-C J11LBJ 34,848- 242- 48-B JH1WIX 29,670- 230- 48-B JA8EY 23,668- 198- 39-B JE3UNA 19,899- 201- 33-B JA2DHL 12,648- 124- 34-B J3JUMC 11,189- 124- 49-B J21WL 7575- 101- 25-B JA9WMM 6417- 69- 31-B JA2KPV 5460- 91- 20-B JA2NHC 4104- 12- 19-B JA4YIH (JR4PMW, opr.) 1080- 30- 12-B JA6LYV 672- 32- 7-B JH4DQ 429- 23- 6-B JH3CON 144- 12- 4-B JA1BNW 135- 15- 3-B JH0IJH 72- 8- 3-B JH2NHC 72- 8- 3-B JA1AAT 27- 3- 1-B JA1AAV 6- 2- 1-B JG1NBD 94,692- 607- 52-10 J11UB 84,384- 586- 48-B JA1SJV 50,094- 363- 46-B JA1DFQ 43,956- 333- 44-B JA2DHC 36,420- 300- 7-B JG1GGF 34,776- 276- 42-B JG1XLV 21,762- 186- 39-B JA1OP 15,225- 145- 35-B JH1DOB 1240- 10- 4-B J110SP 9360- 104- 30-B JA7EC 7920- 110- 24-B JA1INTK 5925- 79- 25-B JA2DHC 5800- 62- 28-B JA1VZM 5688- 79- 24-B JA1ZIK (JA2TTO, opr.) 3876- 68- 19-B JA9LL/3 3809- 67- 27-B JE2SOY 2496- 64- 13-B JH1CNC 990- 30- 11-B JR1AHH 900- 25- 12-B JA1EAF 844- 29- 11-B JA1ERW 240- 20- 4-B JA1MCO 165,672- 468-118-A QRP	JR1CER 63- 7- 3-A JE2MFE 12- 4- 1-A JA0SGL 28,200- 200- 47-B-AB JA9ZBP 6318- 54- 39-B JA0ZBP 3112- 12- 30 JA0SAU 139,920- 880- 53-B-20 JA0KCL 67,962- 482- 47-B JA0BBT 30,381- 247- 41-B JA9LEB 13,452- 12- 8-B JA9AEH 1068- 76- 31-B JA0KEV 6384- 76- 28-B JA9WFJ 1476- 41- 12-B JA0SGN 37,092- 281- 43-B JA0CDA 3060- 51- 20-B JA0CAF 1440- 32- 15-B UD6BW 1881- 33- 19-B-20 UF6CX 1482- 26- 19-B-AB UF6FFF 29,541- 229- 43-B-20 UL7CT 179,388- 604- 99-B-AB UL7CBM 21,000- 175- 40-B-20 UL7QF 936- 24- 13-B-15 U18BI 3525- 47- 25-B-AB V56JR (WA4UAZ, opr.) 60,162- 271- 74-C-AB 4X6AG 144,000- 275-128-C-AB 9K2BE (G4BWP, opr.) 42,525- 405- 35-C-10 9V1TL 81,432- 348- 78-B-AB Europe DL7ON 697,779-1271-183-C-AB DK3ON 301,479- 439- 23-C DL7AEN 253,485- 645-131-C DJ1XT 211,455- 555-127-C DL7SI 198,561- 547-121-B DJ3ET 162,760- 512-105-C DL6WD 114,750- 306-125-C DK7ZT 48,600- 200- 81-B DL1TH 46,893- 203- 77-B DL1E 10,270- 121- 35-C DJ4OE 26,892- 166- 54-B DJ8BD 24,186- 139- 58-B DF3QN 22,506- 121- 62-C DL1E 10,270- 121- 35-C DJ2OV 6975- 77- 31-C DL1BK 20,400- 200- 34-C-80 DJ9MH 71,893- 489- 49-40 DL1IF 21,726- 213- 34-C DK0HR (DK9FE, opr.) 18,900- 180- 35-B DL0WW (DF7ZR, opr.) 1479R- 946- 52-C-15 DJ0YI 90,153- 567- 53-B DL4LF 4800- 50- 32-B DL8GAM 66,024- 524- 42-B-10 DK3ON 52,580- 43- 29-B DJ7MG 33,060- 290- 38-C DK8AX 22,572- 209- 36-C DL3MAB 21,012- 206- 34-C EA4KR 9270- 39- 39-B DL8CM 101,745- 357- 95-A-QRP DL2EF 12,669- 103- 41-A DK5RY 48- 4- 4-A EA1BAD 386,880- 832-155-B-AB EA5YU 290,376- 654-148-B EA2DT 61,938- 279- 74-B EA3AV 40,929- 51- 31-B EA7DS 47,817- 207- 77-B EA1YL 46,566- 199- 78-B EA7PNE 3240- 54- 20-80 EA3PE 53,856- 408- 44-B-20 EA5AIO 10,974- 118- 31-B EA2CR 6984- 97- 24-B EA4KR 1755- 39- 39-B EA7LM 405- 15- 9-B EA7BZN (WA35CW, opr.) 53,424- 424- 42-B-10 EA3KT 12,065- 43- 36-P EA4AP1 10,350- 115- 30-A-QRP EA6CL 119,880- 370-108-B-AB FA6FJ 4104- 72- 19-B-20 F19J 499,395- 985-169-B-AB E12BB 63,339- 491- 43-B-10 F6FTB 50,481- 237- 71-B-AB F6E7 27,216- 162- 56-B F6CCI 22,680- 140- 54-B F84M 4929- 51- 31-B F8W 4872- 58- 28-B F8VJ 405- 15- 9-B-160 F9IG 30,135- 745- 41-B-40 F13A 12,065- 43- 36-P F6DKV 27,360- 228- 40-B-20 F8TO 32,544- 226- 48-B-15	F6EQV 7410- 95- 26-B-10 F9YZ 39,270- 187- 70-A-QRP G2QT 254,478- 581-146-B-AB G3SEF 195,939- 531-123-B G2AJB 5247- 53- 33-B G3XWZ/A 144- 8- 6-A-160 G3FXG 105,567- 747- 47-B-40 G3NKS 8652- 103- 28-B G3PVA 97,944- 616- 53-B-20 G3MXJ 163,782-1011- 54-B-15 G3KSA 33,924- 287- 44-B G5EAD 21,660- 190- 38-B G4GIR 129,156- 916- 47-B-10 G3VMY 11,253- 121- 31-A-QRP GM3LYY 353,721- 751-157-B-AB GM3LJR 66,276- 263- 84-B GM4FDM 5100- 68- 25-40 GM3RAO 11,346- 122- 31-B-10 GU5DSD 128,016- 381-112-B-AB GW3JI 162,000- 450-120-B-AB GW3NYY 97,953- 317-103-B HA1XO 582,660-1170-166-B-AB HA1ZG 184,388- 462-133-B HA8UB 129,492- 396-109-B HA7MC 68,850- 306- 75-B HA5JK 50,616- 272- 78-B HA7KJL 49,368- 242- 68-B HA0IG 47,034- 234- 67-B HA0DKA (HA0DU, opr.) 17,506- 174- 89-B HA8VB 41,760- 290- 40-B-40 HA9RE 36,480- 304- 40-B-40 HA6NW 13,113- 141- 31-B HA4KYV (HA4KT, opr.) 117,501- 739- 53-B-20 HA8DU 16,800- 160- 35-B HA8UH 891- 17- 13-B HA4YG 27,940- 227- 40-C-15 HA7MS 15,300- 150- 34-B-10 HA1ZD 10,005- 115- 29-B HG5BA 10,005- 115- 29-B HE6AK 26,448- 152- 58-A-QRP HB9LF (HB9OQ, opr.) 173,660- 426-108-C-AB HB9KC 87,300- 291-100-B HB9CIP 52,416- 224- 78-B HB9AY/Z 40,392- 204- 66-B HB9BOV 25,905- 157- 55-B HB9QA 5950- 50- 37-B HB9AFI 128,202- 929- 46-C-10 HB9DX 40,698- 357- 38-C HB9ASJ 14,445- 107- 45-A-QRP DJ0UY/HB0 53,799- 227- 79-C-AB I2UBI 1,433,544-2283-212-C-AB I3DL 10,686- 137- 26-C-80 I0JX 158,841- 999- 53-C-40 I1XPQ 37,440- 320- 39-B I2UIY 33,600- 280- 40-C I2VXJ 80,478- 528- 51-B-15 I0XKR 65,880- 488- 45-B-15 I0MM 183,144- 1174- 52-C-10 I8PMO (I8ULL, opr.) 158,841- 999- 53-C I0SKK 83,400- 309- 90-A-QRP I1IKT 4674- 82- 19-A IS0MH 69,300- 385- 60-B-AB I9W0H 97,776- 336- 97-C-AB JW0P 28,050- 170- 55-C LA6ZV 91,927- 292- 92-C-AB LA1EE 17,340- 170- 34-C-40 LA6VM 2448- 48- 17-C LA4LY 11,232- 117- 32-C-20 LA3LJ 240- 10- 8-C-15 L2IG 16,290- 181- 30-C-80 L2IEP 25,488- 177- 48-C-15 L2IMS 145,824- 992- 49-C-10 OE7SHI 64,308- 233- 92-B-AB OE1EZ 18,408- 118- 52-B OH2BCV 143,010- 454-105-C-AB OH1RZ 91,344- 346- 88-B OH6XV 4968- 72- 23-B OH2BNL/3 10,500- 99- 14-B OH5UL 450- 25- 6-B OH1PS 56,718- 411- 46-C-20 OH1QB 20,634- 181- 38-C OH6MM 5616- 78- 24-C OH6AC 159,390- 966- 55-C-15 OH3AA 124,024- 795- 52-C OH2BUU 20,640- 172- 40-C OH5UO 7650- 85- 16-B OH6GD 5460- 65- 28-B OH6DF 4536- 56- 27-B OH2BKC 11,484- 132- 29-C-10 OH5UO 5160- 86- 24-B OH2CR 2760- 40- 23-B OH7NW 378- 14- 1-B OH2DN 3- 1- 1-C OH0BA 511,524-1093-156-C-AB
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