

# 2000 ARRL International DX CW Contest Results

**“It** doesn’t get any better than this....”

No, I am not referring to the beer that helped popularize that line a few years back. Rather, I am referring to the outstanding competition seen this past February in the ARRL’s 2000 International DX CW Contest.

During a good contest weekend, you will see one or two overall scoring records challenged. On an excellent weekend, maybe a couple of those records may fall. But for the Y2K running of the League’s premier DX event, it is hard to find an adjective to describe the results. **Every W/VE Single Operator All Band and Multioperator category record was broken.** And in every case but one, at least two entrants broke the previous record. One single band W/VE record was also established. Though only two Single Band records fell on the DX side, participation and competition outside the US and Canada was also remarkable.

A total of 2290 competitive logs—1000 W/VE and 1290 DX—were received for this contest. They represent the hard work and contesting skill of over 2,760 participants and 5.1% increase of logs for this contest. An additional 152 logs—33 US and 119 DX—were received but were classified as checklogs (incomplete data, submitted after deadlines, not all required log or summary files were submitted).

The Y2K running of the contest may have been a good DX “coming out party” for the QRP community. There was a 7% increase in the number of Single Operator QRP entries received. While still representing a small percentage of the total logs received (6%), their operating talent continues to shine. Doug, KR2Q, led the way, as he and George, K2DM, and Alan N3BJ all shattered the old Single Op All Band QRP mark. Doug’s winning effort of 1,228,608 beat the old mark by over 360,000 points!

The old Single Operator Assisted record of 4.6 million was left standing in the dust, again by a talented trio of top operators. Rick, KI1G, edged out Chas, K3WW, and Jeff, K1ZM, as all three cracked the old record and became the first in this category to crash through the five million-point bar-

rier. Rick’s 5,867,376 effort also topped the old mark by over 1 million points

A quartet of operators broke the Single Operator All Band Low Power record. Dan, K1TO, proves, yet again, that he is as tal-



**Dave, NT1N, experiencing his first New England winter, made good use of his modest roof tower to place second on the Single Op, 15-Meter, Single-Band category. Watch out for him when he gets his antenna farm in place!**

## Top 10 QRP and Single Assisted Boxes

W/VE Single Operator QRP	DX Single Operator QRP
KR2Q 1,228,608	HA2A 553,146
K2DM 1,114,272	9A7P 441,882
N3BJ 930,504	(9A6NHH,op)
N7IR 748,731	LY3BA 366,750
NØUR 707,850	LY2TA 361,152
W6JTI 615,954	JH1HRJ 291,549
VE3KZ 603,729	UAØKCL 286,209
N1TM 585,648	LY2FE 265,506
WA8RCN 418,500	DL3KVR 260,190
W8QZA 389,469	DL6RDR 246,018
	JR4DAH 224,613

  

W/VE Single Operator Assisted	DX Single Operator Assisted
KI1G 5,867,376	YL4U 2,055,288
K3WW 5,713,512	(YL2KL,op)
K1ZM 5,083,731	DK3GI 1,594,950
K2NG 4,634,190	JG1ILF 1,286,208
W2UP 3,985,929	JA1YNE 969,228
K1IR 3,926,445	OK1DG 723,996
W2GD 3,821,370	RZ3AA 682,443
K2XA 3,706,560	JQ1BVI 642,546
N3RR 3,610,698	DL1ASA 640,320
AA3B 3,364,989	DJ9RR 594,405
	LY5W 559,821
	(LY1DR,op)

## Revised Scores

After the original processing and reporting of the 2000 ARRL International DX CW Contest, an error in the scoring algorithm for both DX and W/VE logs was discovered. For DX stations, certain Canadian multipliers (which in this contest are determined by province and territory) had in fact been counted according to ARRL/RAC sections. This error caused entrants who worked these Canadian stations to have multipliers undercounted by the software. For W/VE stations, the omission of a character in the actual formula allowed the final multiplier on each band not to be included in the final multiplier total. These errors affected every entry that had been submitted electronically and whose log was processed by the log checking software.

While correcting this, we have been able to include several other logs, which previously had been incomplete due to errors in the files. This additional data may cause a station to lose a previously checked QSO. These additional data may also change certain QSOs from NIL to valid QSOs. In some cases, this may then validate previously removed multipliers.

This revised article contains the corrected scores that will be used to calculate all awards and records. On behalf of those involved in the log processing and checking processes, and the employees in the ARRL Contest Branch, I apologize for the problems and any inconvenience that it may have caused. If you have questions regarding the process, please contact me and I will be happy to address them—*Dan Henderson N1ND, ARRL Contest Branch Manager*

**DX Single Band****160 Meters**

KV4FZ	52,773
CO8JY	27,960
IK4MHB	5,292
S57M	5,280
S50U	5,103
OM0WR	3,024
I3VHO	2,295
UU4JMG	1,296
LZ3AB	864
JR7VHZ	693

**80 Meters**

C6AKQ	166,554
(N4BP,op)	
CO8ZZ	96,264
OT0T	86,877
(ON4UN,op)	
CO8DM	83,772
HG3M	58,032
(HA3MY,op)	
DK8LV	38,007
OM2DX	25,380
OK1TO	17,919
YU1KR	17,472
JJ2ZJS	16,992
(JG2TSL,op)	

**40 Meters**

OK1RF	224,808
PY0FF	216,804
IR4T	198,063
(IK4UPB,op)	
HA8FM	175,218
OM5M	171,513
(OM2RA,op)	
YT1BB	152,880
YU1AU	149,454
S57DX	149,292
YT7A	148,422
PY2NY	128,205

**20 Meters**

SM0JHF	266,040
OG8L	265,323
(OH8LQ,op)	
TG9/IK2NCJ	238,032
RZ9UA	229,824
YU1AAX	203,112
(YU1ZZ,op)	
G0IVZ	200,256
YT1AD	157,818
F6HKA	145,860
LY2BM	137,313
PY7IQ	136,800

**15 Meters**

VP5TT	358,956
(K2KW,op)	
GM3POI	276,120
5N0W	271,614
PY3PAZ	231,192
OG6AC	222,546
(OH6CS,op)	
Ti7/N4MO	211,185
G5G	198,063
(G0LII,op)	
S57AW	197,178
JG3KIV	190,494
S59UFB	173,580
(S53CC,op)	

**10 Meters**

ZF1A	346,434
(W5ASP,op)	
HC2SL	277,008
PY1KN	212,454
G3WVG	206,580
S50K	196,392
S51AY	194,940
DL3TD	194,085
AL7IF	193,059
S53O	179,760
G5M	176,736
(G3WGN,op)	

**W/VE Single Band Entries****160 Meters**

K3RR	7,134
K1VW	7,068
K4TEA	6,960
W4GD	4,224
W2VO	2,496
K1KY	2,232
VE3DO	2,139
NX5M	1,449
N4DU	1,188
VE7SL	1,008

**80 Meters**

W1MK	197,292
W2YX	20,016
(N4PL,op)	
N2FY	11,610
W2FR	9,576
VE6JY	2,046
AG4W	1,425
AA9IV	1,404

**40 Meters**

K7EM	333,696
KV0Q	331,731
NS0Z	276,003
(K9BGL,op)	
K8PO	261,885
VE1ZJ	201,852
K5NZ	184,212
WB4OSN	128,640
WA6IQM	123,984
K7WP	123,123
NX5G	115,515

**20 Meters**

K4XS	574,770
VE6BF	390,936
W4NZ	304,920
K2BA	280,035
VE6EX	110,160
K9CAN	92,004
KA7T	55,836
W8UMR	50,370
WA9S	45,144
K4RDU	32,391

**15 Meters**

VE6WQ	698,001
(@VE6JY)	
NT1N	682,446
K2VV	668,580
(@K4VX)	
K8DX	628,290
N2PP	574,776
N2MF	532,332
K0IR	528,906
N5DX	507,936
K4WX	482,406
K6LL	467,874

**10 Meters**

K1RM	588,078
W4ZV	586,872
K4VX	547,740
(W9WI,op)	
K5RX	489,084
W8WA	451,881
W9XG	444,066
(K0RX,op)	
N4PN	438,840
N7KU	419,067
(NJ6D,op)	
N0NR	413,100
W0TM	406,134

**DX Breakdown Box****Single Operator Low Power**

	160	80	40	20	15	10	
VP5EA (WD5N,op)	3,697,200	244/39	439/48	534/54	914/57	756/58	1063/56
V26G (N2ED,op)	3,178,320	114/38	337/47	612/54	698/53	737/54	987/58
V47X (WT9U,op)	2,652,750	0/0	254/45	486/54	915/57	838/57	782/57
J38A (K4LTA,op)	2,371,782	154/40	375/46	632/55	594/55	513/54	385/48
KH6/W6PH	2,220,648	0/0	225/46	577/54	526/56	530/54	904/58
VP6BR (OH2BR,op)	2,068,893	0/0	5/4	489/52	565/50	920/57	1170/56
NP3G	1,887,477	223/39	220/40	295/51	515/54	367/47	619/50
V7G (AC4G,op)	1,689,885	0/0	28/20	611/54	376/51	493/52	889/58
EA7GTF	1,669,920	11/9	107/29	339/48	596/52	500/52	719/55
KP4Y	1,349,532	0/0	61/25	398/49	492/51	495/52	527/51

**Single Operator High Power**

ZF2NT (N6NT,op)	5,147,010	296/46	497/58	851/56	119/57	1201/57	1161/56
HC8L (W6NL,op)	5,131,824	341/51	407/52	785/56	873/56	992/58	1770/58
TI5N (K9NE,op)	4,673,322	217/48	478/56	847/55	846/58	1184/58	1106/58
WP3R (KE3Q,op)	4,305,543	247/45	324/50	636/56	1074/54	1017/57	1151/57
KH7R (KH6ND,op)	4,051,752	180/41	342/51	641/56	742/54	820/57	1549/57
ZD8Z (N6TJ,op)	3,932,775	8/5	191/44	760/55	1149/56	1228/58	1431/57
V31JP (K8JP,op)	3,652,791	153/41	425/53	621/54	796/55	920/56	854/58
6V6U (K3IPK,op)	3,433,650	0/0	263/47	739/55	984/57	1072/58	1104/58
NH7A, (KH6TO,op)	3,094,110	163/40	279/46	617/55	528/56	685/55	1055/58
J37ZA (K2KQ,op)	2,851,506	150/36	327/45	449/51	889/55	661/54	757/53

**Multioperator Single Transmitter**

P49V	5,556,720	413/50	530/54	791/57	1042/59	1194/59	1510/59
3E1CW	5,284,746	237/47	553/55	1007/58	1136/57	1197/57	1192/57
8P9JA	5,156,160	169/43	449/55	772/58	1212/57	1204/58	1434/57
V31TP	4,726,152	260/48	551/54	708/56	835/56	1141/58	1308/56
KP2F	4,452,912	190/45	540/51	662/55	794/55	1083/57	1355/58

**Multioperator Two Transmitter**

KL7Y	6,251,874	130/33	454/53	1135/57	1488/58	1732/58	1635/58
MD/DL3OI	4,632,180	59/16	399/43	1009/56	962/56	1452/58	1499/58
G4BUO	4,309,464	38/19	339/43	953/57	1035/59	1230/60	1258/58
OT0A	3,611,325	1/1	259/38	976/57	888/57	1175/59	1176/57
RU1A	3,316,167	4/2	113/28	906/57	1237/58	930/60	1013/58

**Multioperator Unlimited Transmitters**

6D2X	8,993,016	758/54	1100/58	1630/58	1778/59	1653/59	1695/60
9AY2K	4,799,700	106/23	453/45	1081/57	1213/58	1165/59	1315/58
RW2F	4,061,250	34/14	263/37	1062/59	1104/58	1084/59	1203/58
LY7A	2,282,826	1/2	146/33	634/56	715/57	884/58	448/53
OL7W	1,626,156	0/0	105/23	605/55	421/54	597/53	540/54

**W/VE Breakdown Box****Single Operator Low Power**

	160	80	40	20	15	10	
K1TO	3,147,813	21/17	86/42	406/74	737/92	581/86	812/86
K1RO	2,400,657	0/0	64/35	362/71	588/83	658/81	661/73
WE1USA (WA1LNP,op)	2,380,428	22/18	87/46	259/72	517/75	653/83	541/78
W2TZ	2,091,906	9/8	90/42	235/60	490/75	563/79	707/69
K1VUT	2,033,850	11/8	83/40	508/66	398/73	481/72	605/66
N8AA	2,017,395	18/16	55/37	203/63	361/76	497/77	771/84
K0EJ	1,980,342	21/17	53/35	191/57	441/78	548/73	699/78
NA2U	1,709,325	3/3	36/25	202/58	367/78	460/73	707/84
K4OGG	1,663,572	14/13	47/34	145/54	477/71	470/74	613/68
K6LA	1,575,900	0/0	48/20	363/68	282/70	491/77	516/74

**Single Operator High Power**

KQ2M	5,531,358	27/23	167/57	737/81	1065/89	902/89	1420/88
K1ZZ	5,089,122	40/30	221/56	532/75	974/94	1001/90	1005/93
K5ZD (W2SC,op)	4,990,056	48/32	236/55	924/79	921/91	883/83	911/84
K1DG	4,944,996	29/24	182/57	767/81	728/93	982/89	1110/90
K3ZO	4,689,861	32/24	194/51	653/78	986/84	927/87	1049/83
N2IC	4,608,990	23/17	123/44	793/79	558/85	940/93	1265/97
W6EEN (N6RT,op)	3,860,436	16/14	102/31	715/77	518/82	964/92	993/93
N2LT	3,757,017	34/23	112/46	419/73	767/89	783/88	962/88
W9RE	3,752,406	20/16	83/42	505/72	610/82	848/83	1243/83
N6MJ (@W6KP)	3,710,454	19/15	55/23	806/79	558/84	873/84	996/89

**Multioperator Single Transmitter**

W3BGN	5,696,019	44/33	260/65	698/91	1127/101	838/92	964/101
W2AA (@N2TX)	4,356,960	36/28	119/56	621/87	791/98	555/90	1008/105
AA2FB	4,249,488	12/11	132/58	729/90	766/100	713/90	824/97
WX0B	4,150,383	22/23	65/53	497/88	732/99	812/94	873/104
K4OJ	3,943,524	27/25	102/53	455/81	774/91	834/93	782/99

**Multioperator Two Transmitters**

N2RM	11,017,188	58/48	314/70	1262/99	1618/119	1696/110	1778/108
K1AR	10,883,400	42/32	372/74	1500/104	1465/118	1672/110	1545/112
N3RS	9,174,192	33/28	271/67	988/97	1404/117	1720/111	1420/104
K8AZ	8,909,388	33/26	115/63	915/100	1452/116	1497/111	1634/110
W8AV	6,688,176	26/23	127/56	760/88	1142/105	1285/102	1324/104

**Multioperator Unlimited Transmitters**

W3LPL	14,579,232	91/49	572/86	1493/107	1927/125	1949/122	1961/119
K3LR	14,547,600	49/36	333/79	1589/113	2041/126	2065/125	2005/121
KC1XX	13,680,000	86/47	702/91	1610/109	2081/126	1698/116	1423/111
K1XM	12,403,188	91/49	638/82	1269/101	1765/124	1701/114	1652/111
K9NS	11,360,748	44/31	318/75	1094/99	1596/120	1883/117	1876/114

ented a CW man as has come down the pike. Dan not only topped old mark, but destroyed it, as he became the first ever in the category to cross the three million point barrier with a score of 3,147,813. His run-away performance shouldn't diminish the accomplishments of Mark, K1RO, WE1USA (the call sign used by Gordon, WA1LNP), or Fred, W2TZ, as all joined Dan in crossing the previous threshold.

The scramble at the top of the Single Operator All Band High Power category was even more crowded as six operators—KQ2M, K1ZZ, W2SC (operating at K5ZD), K1DG, K3ZO and N2IC—all broke the old category record. When the log checking was finished, Bob, KQ2M, beat Dave, K1ZZ, 5,531,358 to 5,089,122. In the process, both became the first two entrants to break through the five million point score ceiling.

The five million point score seemed to be a magic number this year as winner. The W3BGN Multi-Single entry repeated in the category and in the process became the first in the category to surpass the five meg score, racking up 5,696,019 points to beat the W2AA crew at N2TX by over 1.3 million points.

After threatening the big "ONE OH"—ten million—point barrier in 1999, the Multi-Two entry at K1AR broke the magic barrier. The only problem was the outstanding group at N2RM broke the eleven mega-point barrier! In one of the tightest finish among any of the all-band categories, congratulations to the N2RM station for edging out K1AR 11,017,188 to 10,883,400

The final all-band record breaking effort from the W/VE side occurred in the annual "battle of the heavyweights" as W3LPL and K3LR slugged it out. In the end, both broke 14 million points with W3LPL's 14,579,232 edging out K3LR by only 31,632 points. Lurking just off the pace were the efforts at KC1XX and K1XM, whose third and fourth place finishes also broke the old record of 12.1 megs.

With 10 meters having been wide-open, it is no surprise that the W/VE 10 Meter Single Band record for the category fell. And boy, was the battle intense! The final results show that Vinnie, K1RM, edged out Bill, W4ZV, 588,078 to 586,872. Bill won the QSO battle—1881 to 1766. Vinnie won the Multiplier battle—111 to 104—and hence the war. In another closely contested record-breaking category, Joel VE6WQ, operating at VE6JY, edged out Dave, NT1N, in the W/VE 15 Meter Single Band category 698,001 to 682,446, with both breaking the previous record. Congratulations also go to the other Single Band champions: John, K1VW (160), Robye, W1MK (80), Steve, K7EM (40), and Bill, K4XS (20).

On the DX side, Peter, HA2A, led the

## Plaque Winners

Plaque Category	Winner	Plaque Sponsor
W/VE All Band CW	KQ2M	Frankford Radio Club
W/VE 1.8 MHz CW	K1VW	Butch Greve, W9EWC Memorial
W/VE 3.5 MHz CW	W1MK	Thomas Rylander
W/VE 7 MHz CW	K7EM	Northern Arizona DX Association
W/VE 14 MHz CW	K4XS	QSLs by W4MPY
W/VE 21 MHz CW	VE6WQ (@VE6JY)	Carl Luetzelschwab K9LA
W/VE 28 MHz CW	K1RM	Green River Valley, IL ARS
W/VE Low Power CW	K1TO	Dauberville DX Association
W/VE QRP CW	KR2Q	Tod Olson, K0TO
W/VE Single Operator Assisted CW	K1IG	Pete Carter, K3VW Memorial
W/VE Multi-Operator Single Transmitter CW	W3BGN	Northern Illinois DX Association
W/VE Multi-Operator Two Transmitter CW	N2RM	Order of Boiled Owls of NY, W2AO Memorial
World Single Operator CW	ZF2NT (N6NY, op)	North Jersey DX Association
Single Operator Africa CW	ZD8Z (N6TJ, op)	Byron Peebles, NZ3O
Single Operator Asia CW	JH5FXP	Alamo DX Amigos
Single Operator Europe CW	SP2FAX	Jerry Griffin K6MD
Single Operator North American CW	T15N (K9NW, op)*	Potomac Valley Radio Club
World 1.8 MHz CW	KV4FZ	In Memory of DL1FF
World 3.5 MHz CW	C6AKQ (N4BP, op)	Jim Knutson, KD0AV
World 14 MHz CW	SM0JHF	Tom Frenaye K1KI
World 28 MHz CW	ZF1A, (W5ASP, op)	Ft. Wayne DX Association
World Low Power CW	VP5EA (WD5N, op)	Jim Stevens, K4MA
World QRP CW	HA2A	Jerry Griffin, K6MD
World Single Operator Assisted CW	YL4U (YL2KL, op)	Willamette Valley DX Club
World Multi-Operator Single Transmitter CW	P49V	John Brosnahan, W0UN
Asian Multi-Operator Single Transmitter CW	JA7YAA	Yankee Clipper Contest Club
Europe Multi-Operator Single Transmitter CW	IR2W	The Radio Place
North America Multi-Operator Single Transmitter CW	3E1CW	Gary Stilwell, K16T and Glenn Stilwell, WR6O
World Multi-Operator Two Transmitter CW	KL7Y	Tom De Meiss K2TD Memorial
Europe Multi-Operator Two Transmitter CW	MD/DL3OI	Jim George N3BB
Asia Multi-Operator Two Transmitter CW	UA9LM	Oklahoma Com. Center and AH9B
World Multi-Multi CW	6D2X	H Stephen Miller N0SM
Europe Multi-Multi CW	9AY2K	Texas DX Society
Asia Multi-Multi CW	JN3PYQ/1	David Brandenburg, K5RQ
South America Multi-Multi CW	LU6UO	David Brandenburg, K5RQ
Great Lakes Division Single Operator CW	K8GL	Livonia (MI) Amateur Radio Club
Japan All Band CW	JH5FXP	Akita DX Association
Japan Low Power All Band CW	JL1ARF	Western Washington DX Club
Seventh Call Area All Band CW	W2VJN/7	Willamette Valley DX Club
Ninth Call Area All Band CW	W9RE	Northern Illinois DX Association
Caribbean Multi-Single CW	8P9JA	The YASME Foundation
W/VE Low Power Combined Score	W2TZ	Rochester NY DX Association
W/VE 7 MHz Combined	K7EM	Pace Engineering in memory of Jim Rafferty, N6RJ
World Single Op Combined Score	ZF2NT (N6NT, op)	Mike Manafo, K3UOC
Japan Combined Score	JA8RWJ	JA7WME

\*Asterisk indicates plaque is award to runner-up when winner has been awarded an overall plaque.

## W/VE Region Leaders

Boxes list call sign, score, and power (A = QRP, B = Low Power, C = High Power).

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)		
KR2Q	1,228,608	A	N3BJ	930,504	A	VE3KZ	603,729	A	N0UR	707,850	A	N7IR	748,731	A
K2DM	1,114,272	A	N1CWR	366,513	A	WA8RCN	418,500	A	K5AAR	71,133	A	W6JTI	615,954	A
N1TM	585,648	A	WA3NKO	349,623	A	W8GOC	242,874	A	NU0V	12,792	A	W8QZA	389,469	A
AA1CA	349,533	A	WA9FWO	48,132	A	VA3SB	221,760	A	K1EQA	11,880	A	N6WS	177,384	A
W3BBO	334,098	A	NA4UY	43,524	A	W8ILC	198,996	A	K5OI	9,450	A	K7FB	132,867	A
K1RO	2,400,657	B	K1TO	3,147,813	B	N8AA	2,017,395	B	WDSK	1,404,522	B	K6LA	1,575,900	B
WE1USA (WA1LNP,op)	2,380,428	B	K0EJ	1,980,342	B	N4TZ	1,551,090	B	W0UO	1,339,674	B	W7YAQ	1,443,420	B
W2TZ	2,091,906	B	K4OGG	1,663,572	B	KJ9C	1,376,097	B	N5AW	1,047,696	B	N7OU	1,164,060	B
K1VUT	2,033,850	B	K5KLA	1,235,079	B	W8JGU	1,251,936	B	VE5SF	797,049	B	K7ZA	1,086,012	B
NA2U	1,709,325	B	WD4AHZ	1,111,320	B	W9OP	1,023,156	B	W0ETT	774,252	B	KN7Y	980,100	B
KQ2M	5,531,358	C	N4AF	3,616,704	C	W9RE	3,752,406	C	N2IC	4,608,990	C	W6EEN	3,860,436	C
K1ZZ	5,089,122	C	K4MA	2,921,490	C	K8GL	3,133,728	C	N8SM	1,956,285	C	(N6RT,op)		
K5ZD (W2SC,op)	4,990,056	C	K4AB	2,754,966	C	VA3UZ	2,623,167	C	NR0X	1,624,080	C	N6MJ	3,710,454	C
K1DG	4,944,996	C	K1PT	2,522,784	C	K9MA	2,375,961	C	K0CAT	1,462,050	C	(@W6KP)		
K3ZO	4,689,861	C	W5WMMU	2,475,942	C	N9CK	2,185,380	C	(K9WIE,op)			W2VJN/7	2,294,688	C
									K0GQ	1,443,339	C	K7MI	1,882,068	C
												KC7V	1,708,011	C

## Affiliated Club Competition

	Score	Entries
<b>Unlimited Category</b>		
Yankee Clipper Contest Club	397,397,820	253
Frankford Radio Club	325,313,637	164
Potomac Valley Radio Club	174,895,167	119
<b>Medium Category</b>		
Society of Midwest Contesters	74,304,213	42
Northern California Contest Club	63,693,549	43
North Coast Contesters	54,296,748	13
Mad River Radio Club	37,358,201	20
North Texas Contest Club	34,755,978	29
Southern California Contest Club	34,447,653	34
Central Texas DX and Contest Club	32,274,303	8
Minnesota Wireless Assn	29,190,468	27
South East Contest Club	28,193,895	16
Tennessee Contest Group	26,315,532	33
Florida Contest Group	25,338,543	27
Mother Lode DX/Contest Club	14,429,301	14
Western Washington DX Club	14,050,119	27
Order of Boiled Owls of New York	11,881,176	10
Rochester (NY) DX Assn	10,415,016	20
Western New York DX Assn	5,980,848	16
Southwest Ohio DX Assn	5,951,133	3
Central Arizona DX Assn	5,621,064	12
Willamette Valley DX Club	4,743,213	7
Oklahoma DX Assn	4,648,671	5
Eastern Iowa DX Assn	3,978,444	4
Mile High DX Assn	3,975,699	3
Cajun Contest Club	3,855,816	3
Carolina DX Assn	3,550,401	10
Grand Mesa Contesters	2,922,483	9
Kansas City DX Club	2,896,002	9
Ozark Contest Club	2,870,574	5
Texas DX Society	2,525,841	8
Magnolia DX Assn	2,265,636	4
Southern California DX Club	1,948,731	5
Salt City DX Assn	1,916,673	9
Worldradio Staff ARC	1,714,047	10
Mississippi Valley DX/Contest Club	1,618,074	4
West Park Radiops	1,381,206	11
Twin City Ham Club	1,258,794	5
California Central Coast DX Club	1,217,436	3
Bay Area Wireless Assn	1,203,468	3
Northern Arizona DX Assn	1,196,004	7
Northrop Grumman Radio Club	1,114,587	7
Poughkeepsie ARC	901,473	3
Northern California DX Club	627,600	3
Wabasha Area RC	440,790	3
Ozaukee Radio Club	410,250	4
Kentucky Contest Group	330,276	3
Green River Valley ARS	325,443	3
Woodbridge Wireless	225,162	3
South Jersey Radio Assn	110,538	6
<b>Local Category</b>		
Hudson Valley Contesters and DXers	18,894,786	8
River City Contesters	5,227,002	3
Great Falls Area ARC	2,511,012	5
American Red Cross Emergency	1,729,245	7
Midwest Contest Club	1,520,349	3
Western Illinois ARC	1,032,141	3
Heartland DX Association	871,818	7
Metro DX Club	549,258	3
Northern New York Contest Club	369,033	4
Sturdy Memorial Hospital ARC	261,549	3
CT RI Contest Group	114,654	3

way in the Single Operator All Band QRP category, beating 9A7P with Hrvoje, 9A6NHH, operating 553,146 to 441,882. In the Single Operator Assisted category, Girts, YL2KL, as operator of YL4U took top honors with 2,055,288 points – a hefty 400K victory over second place Roland, DK3GI. VP5EA, with Dave, WD5N, as operator, scored a decisive win over V26G, piloted by Ed, N2ED, by a score of 3,697,200 to 3,178,320 in the Single Operator All Band Low Power category. The Single Operator All Band High Power crown was copped by Bruce, ZF2NT (a.k.a. N6NT when operating with his US call sign) with a final tally of 5,147,010. Finishing a very close second (5,131,824) in the category was HC8L with Dave, W6NL, “moonlighting” with his HC8 call.

DX Multioperator stations are often the workhorses of this contest, and the efforts of many great contesters shine through again in this year’s results. Three stations in the Multi-Single category broke the 5 Meg barrier, with P49V’s 5,556,720 leading the way with 3E1CW and 8P9JA in close pursuit. In the Multi-Two category, this year there was KL7Y, and then there were the rest of the entrants. The ops at KL7Y, with their score of 6,251,874, posted an outstanding 1.6 meg victory over the crew at MD/DL3OI in the category. In the Multi-Multi category the hard work and planning by the operators at 6D2X allowed them to coast to victory over the 9AY2K station (sporting a Y2K callsign) 8,993,016 to 4,799,700.

As with the W/VE contests, the 10 and 15 Meter Single Band categories saw new records established during the event. VP2TT, with Ken, K2KW operating, posted a new 15 Meter Single Band score of 358,856 points. The new 10 meter record holder is the very familiar W5ASP, operating as ZF1A, who posted a new score of 346,434 points. Also taking top honors in DX Single Band categories (though not setting new records) were KV4FZ (160), C6AKQ (N4BP, op) (80), OK1RF (40), and SMØJHF (20). A hearty congratulations to all W/VE and DX category winners.

The last ARRL International DX CW Contest of the second millennium proved to be one for the record books. Start thinking now about your chance to set a new record—the first record for your category in the new millennium. The dates for the 2001

contest are February 19-20. Remember that the Cabrillo file format will be the ARRL file standard starting November 2000, so make your preparations now to make certain your station—from antennas to radios to software —are ready for contesting in the next millennium.

## SOAPBOX

I really enjoyed this year’s contest! I even worked a few new ones! (AA9RR)... This is my second year of contesting, first time for ARRL DX CW and my best effort yet. A lot of fun, propagation was great to Europe. (AD6G)... This contest is an excellent occasion for QRPers to make many transatlantic QSOs. I’ve been working the contest in my spare time and though the results aren’t excellent, I’ve had lots of fun QRPing with 3 watts on 10, 15 and 20 meters. The antenna was a simple inverted-V dipole. See you next year! (IKØZSN)... Good CONDX! I enjoyed. (JHØIXE)... I had a great time in this contest breaking pile-ups with my QRP signal! The Elecraft K2 and the new call (K2CY) orked great together! (K2CY)... My best ever DX test with QRP and simple wire antennas in only 23.5 hours! (K3WWP)... Wow, what great condx. Biggest thrill was pulling VP6BR out of a huge 40mtr pileup with my 100w and dipole. He was a really great op though. (K4IE)... The contest changes every year. What great conditions! Started late, just goofing around, and ended up with a mostly single-band effort. Couldn’t stay away! (K5GN)... W had a severe ice storm which create detuning problems on my Force 12 beams. In addition, my ring rotor froze up which prevented me from being able to rotate the 6el. 10m antenna. I foolishly climbed the ice-coated tower on Saturday afternoon and annually fixed the antenna on EU for the Sunday morning 10M run. Fortunately, I did not have a mishap on the climb, but in retrospect it, It’s Only A Hobby! (K5KG)... Well 10 meters was just awesome. I even got to run stations with just 100 watts and a vertical! (KC9TV)... Giving out the DC multiplier is almost like being on a rare DX island! (KE3VV)... WHAT CONDITIONS! There is no meters like 10 meters! (N1DG)... Biggest thrill when VR2BG called me on 15m. Tnx to all who worked me. (N5RG)... Thanks for another great contest. This year I added a small tribander (TA33JR) and I have more than doubled the number of Q’s from last year. Had a wonderful time. Managed to work most all stations that I heard even while using 4.5 watts. What a blast!!! Even had a run of JA’s on 10 meters. Will certainly plan on being back next year. (VA3SB)... Surprised by the excellent conditions as we expected a solar storm. The VE6JY super station is certainly a pleasure to operate. Lots of aluminum in the air. (VE6WQ)... First Contest I’ve really gotten into. Accidentally got caught up in the excitement and actually managed to work DXCC in the contest. Now all I have to do is get the QSL’s sent and received to confirm it. (WØEB)... These were by far the best conditions we have ever seen in a DX Contest. The high bands were absolutely outstanding! (W8AV)... After 20 hours my arm cramped, had a hard time sending. (WA2CPP)...





AD7U (+N6HR) 1,856,142 1858 333 C  
W7CT (+N67M) 1,771,200 1845 320 C  
K7RI (+N0AX/7,K7LXC,KW4T,K7ST) 1,432,812 1718 278 C

**9**  
K9SD (+K9SD,KA0GGI,KI9A,K9DD,ops) 2,732,994 2354 387 C  
WN9O (+W9IU) 2,189,592 1962 372 C

**0**  
KE0A (+N0FW,KE0T,KE0BLD) 1,455,210 1702 285 C  
N0MJ (+W0GJ) 814,626 813 334 C

**VE**  
VE6AO (VE6CIZ,VE6EKP,VE6JAZ,VE6K,VE6RTL,VE6EX,VE6IC,VE6JO,VE6KG,VE6TC,ops) 928,074 1163 266 C  
VE7IN (+VE7FO) 636,090 1165 182 C

**Multipoperator Two Transmitters**  
N2RM (+N2AA,N2NC,N2NT,W2RQ) 11,017,188 6726 546 C  
K1AR (+K1EA,N6IG) 10,883,400 6596 550 C  
N3RS (+N3RD,N3ED,K3WU,ops) 9,174,192 5836 524 C  
K8AZ (+K8BL,K8NZ,W8CAR,W8GN,W8KIC,N8TR,ND8L,WT8C, 8,909,388 5646 526 C  
W8AV (+K4LT,K8KM,K8BE,KI8Z,W8RZ) 6,688,176 4664 478 C  
K8LX (+K8GM,N8EA) 6,080,430 4205 482 C  
N5TW (K5PI,W5TD,WQ5G,WS4G,KE5C,AF5Z,K5LN,NS5W,ops) 4,847,040 3740 432 C  
KB1H (+K1EBY,NB1U,AA1CE,N1XS,KB1DFB) 4,737,663 3581 441 C  
N0LJ (+AA0BY,AF9T,WJ0M) 4,687,125 3625 431 C  
W8ZA (+K8OOL,N8II,WD3A) 3,465,450 2718 425 C  
WR3L (+N3NT,AA3SC) 3,436,944 2702 424 C  
W0AIH (KT0R,AA0ZD,WV3B,ops) 3,103,053 2659 389 C  
N1RR (+W1MK,K1PI) 2,330,883 1977 393 C  
VE1JF (+VE1JUS,VE1MOO) 1,512,576 1616 312 C  
W2CG (+W2NO,KB5U) 971,190 990 327 C

**Multipoperator Unlimited Transmitters**  
W3LPL (+K1HTV,WB2FFY,W2GG,AI3M,K3MM,N3OC,K3RA,K3RV,KT3Y,WR3Z,KD4D,K4ZW,K9GY) 14,579,232 7993 808 C  
K3LR (+W3YD,VE3EJ,AA3RU,N8RV,NI3S,K8CX,K3UA,N3RA,N3GJ,K9VU) 14,547,600 8082 600 C  
KC1XX (+AD1C,W1FV,K1GQ,K1TR,K1XK,KM3T,T93M) 13,680,000 7600 600 C  
K1XM (+NB1B,W1FJ,W1KM) 12,403,188 7116 581 C  
K9NS (AA0D,K9DX,K9HMB,K9PPY,K9PW,K9QV,K9RS,K9SW,N9CO,W9RM,WV9T,ops) 11,360,748 6811 556 C  
K1RX (+K1FV,K1EPJ,AA1SI,WA1S,W3SM,W1FE) 10,124,109 6147 549 C  
W4MYA (+K4BAM,K4GAA,N3SB,W4DR,W4HJ,W4HZ,W4QDM,W4WV,WX3B) 9,572,220 5964 535 C  
K8CC (+K8GT,K8JM,K9TM,KT8X,N8COA,N8VW,WD8S) 9,565,128 6108 522 C  
W3PP (+AA1K,N3KW,WB4FD,NNW3Y,KW3Z,W2GJ,K3FT,N6ZO) 9,464,280 5930 532 C  
NQ4I (+W40D,AA4LR,NA8V,K2UFT,K4BAI,K4PI) 9,162,384 5698 536 C  
K1TTT (+W1TO,K1MK,K2SIG,NT2X,KC2FEE,W2WB) 8,018,640 5160 518 C  
K0RF (+W0UA,W0CE,WB0GAG,W1XE,N0AH) 7,741,890 5090 507 C  
NR4M (+K7SV,K4EC,K4UE,K1SE,K4GMH,WA4JU,KI4RO) 7,283,175 5111 475 C  
N6RO (+N6BV,K6AW,K7NV,KX7M,WA6O,WA3HA) 6,432,012 4476 479 C  
W3EEE (+N3NB) 5,060,216 3782 446 C  
K3ANS (+WF3H,AA2WN,K3YD) 4,251,000 3250 436 C  
N2MM (+N20P) 3,474,120 2620 442 C  
W3MM (+W2YC) 3,258,906 2503 434 C  
K6NO (+K6RC,K6SG) 2,882,250 2562 375 C  
KV1W (+K1MBO,A13E) 2,111,409 1907 369 C  
NM3K (+AA2D,W3E3) 368,424 602 209 C

**DX**  
**Single Operator**  
UA0ZDA/MM 41,625 185 75 B

**Africa**  
**Nigeria**  
5N0W 271,614 1561 58 C 18  
**Senegal**  
6V6U (K3IPK,op) 3,433,650 4162 275 C

**Ghana**  
9G5ZW (OK2ZW,op) 1,048,320 2080 168 C

**Madeira Islands**  
CT3KN 603,504 1016 198 C

**Canary Islands**  
EA8CN 1,338,084 2046 218 B  
EA8/DJ1OJ 247,338 546 151 B

**Egypt**  
SU9Z 861,615 1401 205 B

**Mali**  
TJ26DX 534,240 1060 168 C

**Ascension Island**  
ZD8Z (N6TJ,op) 3,932,775 4767 275 C

**Asia**  
**Azerbaijan**  
4K9W 7,770 70 37 B

**Georgia**  
4L7AA 1,302 31 14 B 20

**Israel**  
4Z5FW 2,964 38 26 B  
4X1VF 14,580 135 36 C 10

**Cyprus**  
C4A (5B4ADA,9A3A,op) 1,545,480 2120 243 C

**West Malaysia**  
9M2JI 32,391 183 59 B

**Singapore**  
9V1XE (VK3DXI,op) 44,421 221 67 B

**Taiwan**  
BV7FF 84,780 314 90 C

**China**  
BA4DW 14,616 116 42 B

**Palestinian Authority**  
E4/G3WQU 36,972 156 79 B  
E4I/OIK1DTP235,350 523 150 C

**Armenia**  
EK4JJ 29,601 253 39 B 20

**Kyrgyzstan**  
EX2X 180,513 647 93 C  
EX8QB 33,417 237 47 C 20

**South Korea**  
HLSUOG 74,970 255 98 B  
HLSAP 43,656 214 68 B  
HLSBUT 8,400 70 40 B  
HL1XP 124,914 382 109 C  
HLI/J11EFP 23,310 185 42 B 10

**Thailand**  
EJ21EC 113,781 391 97 B  
HS0/G3NOM 106,326 358 99 C

**Japan**  
JH1HRJ 291,549 619 157 A  
JR4DAH 224,613 531 141 A  
JA2UHN 74,955 263 95 A  
JQ20MM 52,866 198 89 A  
JSDIM 35,577 177 67 A  
JE2DC 4,116 49 28 A  
JL3SBE 2,829 41 23 A  
JL1ARF 1,048,572 1596 219 A  
JH4UYB 1,001,220 1517 220 B  
JA2BY 467,280 885 176 B  
JH8YU 467,160 916 170 B  
JH1ASO 431,550 822 175 B  
JA1CG 266,256 688 129 B  
JE0UXR 264,480 608 145 B  
JA4KTE 244,167 539 151 B  
JH60PP 205,335 507 135 B  
JR1XKU 198,000 500 132 B  
JG3LGD 166,455 405 137 B  
JA1JQY 141,246 413 114 B  
JH0IXE 127,092 356 119 B  
JH1MSO 126,360 351 120 B  
JAZIU 117,486 366 107 B  
JA7BYA 113,796 327 116 B  
JE1REU 112,860 396 95 B  
JA1XUY 112,200 340 110 B  
JABAU 106,605 309 115 B  
JAZOJ 105,600 320 110 B  
JAZKKA 104,160 310 112 B  
JA1XRH 103,824 309 112 B  
JH6TJV 103,206 334 103 B  
JH1SBE (KM6F,op) 103,155 299 115 B  
JA2BCX 96,310 290 113 B  
JA1QX 95,700 290 110 B  
JG1UKE 94,764 298 106 B  
JH1EIQ 79,560 260 102 B  
JG0AOL 77,562 278 93 B  
JA7ARW 74,970 255 98 B  
JA7DNO 74,664 244 102 B  
JP1SRG 74,472 232 107 B  
JA1KZP 72,450 230 105 B

JJ3TBB 72,036 261 92 B  
JA1OZK 68,904 264 87 B  
JA1AB 68,526 243 94 B  
JR1KSK 67,800 226 100 B  
JE1HUV 66,150 225 98 B  
JA2CX/3 64,939 223 97 B  
JH2UJ 62,790 230 91 B  
JA1BUI 62,784 218 96 B  
JH3CUL 60,888 236 86 B  
JH1CUP 60,720 230 88 B  
JH3J9Y 57,408 208 92 B  
JA1BCP 49,632 188 88 B  
JA4BAA 48,600 200 81 B  
JA3HBF 43,254 178 81 B  
JA1YPA 41,820 170 82 B  
JH7OED 39,150 174 75 B  
JH1PXY 38,808 168 77 B  
JA3AVO 35,244 132 89 B  
JL3KJT 34,506 162 71 B  
JA1QOV 34,194 139 82 B  
JA2MZ 33,750 150 75 B  
JA1KI 30,888 143 72 B  
JA1AZS 30,240 140 72 B  
JA0GEY 29,784 146 68 B  
JR3NDM 27,816 152 61 B  
JA0UFZ 26,670 127 70 B  
JP1DOA 21,777 119 61 B  
JM3XEJ 21,600 120 60 B  
JF7GDF 21,168 126 56 B  
JA1RRA 21,060 135 52 B  
JA6BF 20,400 136 50 B  
JL1LQK 18,444 106 56 B  
JA1XPU 18,114 108 56 B  
JA1HHU 16,800 100 56 B  
JA1GTF 16,461 93 59 B  
JA2KPV 14,628 92 53 B  
7M2GCW 11,475 85 45 B  
JA6QDU 10,440 87 40 B  
JR7OJA 9,954 79 42 B  
JR7XGL 8,964 83 36 B  
JF7PHE 6,696 62 36 B  
JM3LWR 6,552 56 39 B  
JA3WVF 6,549 59 37 B  
JH1MXY 6,480 72 30 B  
JF7HOD/6 5,760 64 31 B  
JF7DXT 5,673 61 31 B  
JH2VLM 5,265 65 27 B  
JA3BQC 5,195 45 29 B  
JA9RO 2,997 37 27 B  
JH1UES 2,940 49 20 B  
JH1WPD 1,858 28 22 B  
JH8COB 1,544 37 14 B  
JA8GTO 1,380 23 20 B  
JH1GWF 960 20 16 B  
JE1SLP 798 19 14 B  
JH1DLJ 594 18 11 B  
JH4JUK 420 20 7 B  
JH5FX 1,790,208 231 256 C  
JABRWU 1,694,712 2344 241 C  
JH7XGN 1,512,153 2109 239 C  
JH7AFR 996,300 1476 225 C  
JA1JKG 815,142 1319 206 C  
JH2BCN 785,070 1342 195 C  
JA0QWO 634,962 1189 178 C  
JA7SSB 524,628 1121 156 C  
JR3KQJ 439,593 847 173 C  
JA1PCY 387,972 829 156 C  
JA9CWX 345,876 779 148 C  
JA2AXB 247,800 590 140 C  
JA2FSM 231,030 510 151 C  
JA2ZD 214,272 505 142 C  
JF1EQA 211,077 499 141 C  
JA5JCC 189,390 535 118 C  
JA1RZD 172,416 449 128 C  
JA6BGA 162,309 413 131 C  
JR3BWA 158,631 437 121 C  
JA1HP 146,289 403 121 C  
JA3ARM 113,280 320 118 C  
JA5ATP 106,704 342 104 C  
JA5JN 93,960 270 116 C  
JA5APU 83,268 514 54 C  
JR1LEVP 57,474 206 93 C  
JA2VOP 50,310 195 86 C  
JA3CSK 44,888 205 82 C  
JE0EHE 43,788 78 82 C  
JH1ABD 17,655 107 55 C  
JH4PPK 17,316 111 52 C  
JA1SJV 11,172 76 49 B  
JA4LCI 5,724 53 36 C  
JA8TEZ 3,180 53 20 C  
JR7VHZ 693 21 11 C 160  
JA8NFV 594 22 9 C 160  
JE1SPY 75 5 8 B 160  
JK1GKG 6 2 1 B 160  
JH2ZSL (JG2TSL,op) 16,992 177 32 C 80  
JH1AEP 11,259 139 27 C 80  
JA4YPE 120 8 5 B 80  
JH2VWV 68,100 454 50 C 40  
JH1OYN 24,600 201 41 B 40  
JH1JNO 24,252 188 43 B 40  
JA8XQI 6,612 76 29 B 40  
JA1XEM 5,775 77 25 C 40  
JS1PWW 6,688 79 24 B 40  
JA0EKI 5,589 81 23 B 40  
JG3EHD 2,570 15 6 B 40  
7M4BZX 12 2 2 B 40  
JH0EPY 40,131 273 49 B 20  
JK1LUY 4,212 54 26 C 20  
JA3HD 3 4 27 3 3 20  
JG3KIV 190,494 1114 57 15 C  
JA9PPC 148,830 902 55 15 C  
JH1NUF 146,160 840 58 15 C  
JR1MOT 113,190 686 55 15 C  
JR2DOL 96,228 594 54 15 C  
JR9NVB 54,831 373 49 15 B  
JA7NVF 54,621 357 51 15 B  
JH7CJM 37,647 267 47 15 B  
JH1JNR 35,574 242 49 15 C  
JM1NGT 29,700 220 45 15 C  
JH2RUT 18,480 154 40 15 B  
JH7QXJ 18,252 156 39 15 C  
JA1EM 18,120 151 40 15 B  
JA6TQD 14,476 134 35 15 B  
JA2SOS 11,988 111 36 15 B  
JA1SJM 7,296 76 32 A 15

JA4JJ 4,725 63 25 B 15  
JH1NXU 3,300 50 22 A 15  
JA6IP 2,772 42 22 B 15  
JM1MML 2,646 42 22 B 15  
JH3VWG 663 17 13 B 15  
JM6NUJ 3 1 1 B  
JH3AIU 155,568 926 56 C 10  
JF1SOC 141,288 841 56 B 10  
JR8OGB 115,506 713 54 C 10  
JQ1UXN 110,055 667 55 B 10  
JH8LS 106,110 655 54 C 10  
JR4PMX 98,175 595 55 B 10  
JH1RXQ 85,536 528 54 B 10  
JF2ION 74,682 461 54 B 10  
JA1NLX 65,508 412 53 B 10  
JR7OMD 45,360 315 48 B 10  
JE4MHL 41,616 289 48 B 10  
JA7AMK 38,352 272 47 B 10  
JF2VAX 38,304 266 48 B 10  
JQ3UDL 31,152 236 44 B 10  
JA1PS 30,174 214 47 B 10  
JA0HC 26,496 192 46 C 10  
JA6UBK 25,740 195 44 C 10  
JA4ETH 22,176 176 42 B 10  
JS1MTI 17,097 139 41 B 10  
JK3GWT 15,873 143 37 B 10  
JH2NWP 13,689 117 39 B 10  
JH1NZA 13,572 116 39 B 10  
JH1HFJ 11,700 100 39 B 10  
JH1JRH 10,791 109 33 C 10  
7J7ADB (KG6DX,op) 9,696 101 32 B 10  
JA0BJY/1 9,282 91 34 B 10  
JG2TKH 8,925 85 35 C 10  
JA6AVT 8,370 90 31 B 10  
JG3NKP 8,208 76 36 B 10  
JE1ARQ 7,875 75 35 B 10  
JL1LTS 6,468 77 28 B 10  
JR2TRC 1,653 29 19 B 10  
JH3TBY 1,584 33 16 C 10  
JH1BBN 1,089 33 11 B 10  
JA9XAT 810 27 10 B 10  
7N3WRN 792 24 11 B 10  
JA1AAT 336 14 8 B 10  
7K2PB 27 3 3 B 10

**Mongolia**  
JT1CS 78,960 280 94 B  
JY9QJ 49,104 248 66 C

**Jordan**  
OD5/OK1MU 878,784 1472 199 C

**Lebanon**  
TA3BN 18,189 129 47 B

**Turkey**  
ASiatic Russia  
UA0KCL 286,209 649 147 A  
RU0LL 434,262 922 157 B  
RA0FN 262,152 662 132 B  
UA0ANW 161,538 494 109 B  
RU8CI 138,768 413 112 B  
RA9AN 124,932 359 116 B  
RK9AD 50,294 217 90 B  
RA0JJ 57,408 208 92 B  
UA9APA 41,238 174 79 B  
RW9QA 24,111 141 57 B  
RX9TX 388,314 918 141 C  
UA0LS 215,130 505 142 C  
RK9JVV 163,647 551 99 C  
UA9AOL 149,193 411 121 C  
RZ9AE 97,656 313 104 C  
UA9JO 81,000 500 54 C  
UA9CDC 73,185 287 85 C  
UA0AGI 45,840 191 80 C  
UA0GR 45,162 193 78 C  
UA0JUD 30,294 153 66 C  
RA9QM 24,072 136 59 C  
RW0QJ 6,045 65 31 C  
RZ9UA 229,824 1368 56 C 20  
RA9AC 118,674 694 57 C 20  
RX9SX 109,782 642 57 C 20  
UA9BS 94,482 543 58 C 20  
UA0SAD 60,102 378 53 B 20  
RA9MY 55,728 344 54 C 20  
RW9TA 53,352 342 52 C 20  
UA9LA 37,338 254 49 C 20  
UA0ZS 6,642 82 27 B 20  
UA0BSQ 147 7 7 B 20  
UA0FDX 141,220 840 56 15 B  
UA0JQ 129,696 772 56 15 B  
UA0CA 83,490 506 55 15 B  
UA0KGB 19,434 158 41 15 B  
UA9WQK 9,324 111 28 B 10  
RX9LV 7,374 74 17 C 10  
UA9MZ 2,679 47 19 C 10  
RW0LZ 2,175 29 25 B 10

**Kazakhstan**  
UN4PD 21,060 130 54 B  
UP6P (UN6P,op) 1810 138 C  
UN8PF 38,979 813 71 C  
UN4PG 6,660 74 30 C 20

**Hong Kong**  
VR2B 610,740 1131 180 C

**Croatia**  
9A7P (9A6NHH,op) 441,882 882 167 A  
9A3CY 10,593 107 33 B  
9A2CV 65,007 233 93 C  
9A2VR 12,096 144 28 C 80  
9A5YA 1,596 38 14 B 80  
9A4W 34,866 298 39 C 40  
9A3LM 9,405 95 33 B 40  
9A1AA 139,608 831 56 C 15  
9A2NO 51,948 333 52 B 15  
9A6T 25,338 206 41 15 B  
9A3VM 147,744 864 57 B 10  
9A5MT 99,624 593 56 B 10

9A6KOI 82,458 509 54 B 10  
9A4KK 88,544 448 51 B 10

**Portugal**  
CT1FGK 199,584 504 132 B  
CT1BNW 8,700 100 29 C 20  
CT1DUE 2,565 45 19 B 20  
CT1FNT 966 23 14 C 20  
CT1GFK 73,350 489 50 B 10

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DL3KVR 260,190 590 147 A  
DL6RDR 246,018 626 131 A  
DJ3XK 122,130 354 115 A  
DL2DWP 44,625 175 85 A  
DF5RF 15,411 103 49 A  
DJ5AA 12,087 79 51 A  
DL1JQD 6,930 66 35 A  
DL7ANR 626,232 1076 194 B  
DF6LQ 393,720 772 170 B  
DL5FU 332,820 645 172 B  
DL5ASE 309,852 684 151 B  
DK7FP 251,505 621 135 B  
DL3DRN 227,700 550 138 B  
DL5KUD 217,242 486 149 B  
DL5SVB 216,300 515 140 B  
DJ7XA 207,090 531 130 B  
DL1WA 201,402 501 134 B  
DL9XY 196,875 525 125 B  
DL9YY 194,449 549 140 B  
DL7QU 161,535 445 121 B  
DL2ZAV 153,750 410 125 B  
DL1DQY 120,375 375 107 B  
DL5IAH 116,130 395 98 B  
DL1TH 111,858 362 103 B  
DL3ZAI 104,160 310 112 B  
DL3BZ 92,538 291 106 B  
DL5WS 87,048 279 104 B  
DL5AT 78,409 297 88 B  
DL4JYT 70,713 243 97 B  
DF1ZN 67,032 266 84 B  
DL3NSM 64,898 263 82 B  
DL2ZTJ 62,949 246 86 B  
DL5DBH 59,760 240 83 B  
DL3YEI 55,842 227 82 B  
DL6DSA 49,140 195 84 B  
DL7UGO 43,555 195 83 B  
DM3FZN 48,665 205 71 B  
DJ2QV 34,425 153 75 B  
DL7AXM 21,018 113 62 B  
DK5ZJ 20,196 132 51 B  
DM3RCK 17,613 103 57 B  
DL1FMG 17,595 115 51 B  
DM3PKK 14,382 102 47 B  
DL5FCO 12,699 83 51 B  
DL2HTF 12,699 83 51 B  
DL8UUG 10,332 84 41 B  
DL5ANS 3,024 36 28 B  
DL7ON 1,745,250 2327 250 C  
DL4MCF 1,595,415 2263 235 C  
DL2DX 1,151,496 1777 216 C  
DL4CF 1,058,832 1634 216 C  
DL6KVA 497,364 868 191 C  
DJ0MDR 426,972 782 182 C  
DL5AWI 404,529 893 151 C  
DL6UNF 367,902 757 162 C  
DL5YM 280,407 619 151 C  
DL4AYO 258,552 567 152 C  
DL7WIA (K3TW,op) 245,502 593 138 C

DF5ZV 211,116 482 146 C  
DF6QV 187,128 452 138 C  
DK3LT 100,320 304 110 C  
DL6AG 62,484 254 82 C  
DL7YS 52,275 205 85 C  
DF5AU 9,936 72 46 C  
DL4XT 2,346 34 23 C  
DK8LV 38,007 309 41 C 80  
DF8AE 23,310 185 42 C 40  
DL6SN 11,187 113 33 C 40  
DJ2YE 5,658 82 23 C 40  
DM3XI 11,178 21 46 C 40  
DK5ON 172,881 1011 57 C 15  
DK8UM 153,990 885 58 C 15  
DK5IM 88,605 537 55 C 15  
DJ5GG 40,320 280 48 C 15  
DM4WW 35,328 256 46 C 15  
DL4AAE 27,495 195 47 B 15  
DL3TD 194,085 1135 57 C 10  
DK3KD 155,736 927 56 C 10  
DL2OBF 116,592 694 56 C 10  
DL2MEH 115,170 698 55 B 10  
DL7BY 96,525 585 55 C 10  
DL6RAI 95,742 591 54 C 10  
DL5ALU 73,062 451 54 B 10  
DL8UD 72,980 477 51 C 10  
DF9CY 16,320 136 40 B 10

**Spain**  
EA7GTF 1,669,920 2272 245 B  
ED4TX 765,450 1215 210 B  
EA4ET 718,200 1260 190 B  
EA4DRV 407,169 843 161 B  
EA7AKJ 303,399 661 153 B  
EA7AJR 279,528 613 152 B  
EA5BS 173,745 429 135 B  
EA3ALY 128,064 368 116 B  
EA5AFH 4,410 42 35 B  
ECSAID 3,960 55 24 B  
EA1BXW 1,083 19 19 B  
EA5FV 2,014,275 2675 251 C  
EA4KA 1,278,570 1853 230 C  
EA5YU 1,129,410 1602 235 C  
EA3AR 802,692 1341 204 C  
EA4BWR 225,132 154 146 C  
EA5DCL 207,900 396 175 C  
EA1BAE 184,416 452 136 C  
EA4AMJ 96,228 297 108 C  
EA5ABE 45,864 182 84 C

EA1DGG	2,280	40	19	B	15	GW3NJW	71,604	442	54	B	15	LZ2ZDL	45,990	219	70	C	OK2PCN	35,673	253	47	B	15	S5QQ	89,199	583	51	B	10	
EA2AZ	60	5	4	B	15	<b>Hungary</b>						LZ4HM	29,898	151	66	C	OK1NG	22,302	177	42	B	15	<b>Sweden</b>						
EA3BHB	30,142	224	46	C	10	HA2A	553,146	986	187	A		LZ2WM	21,411	117	61	C	OK1VWJ	19,200	160	40	B	15	85SX	132,840	360	123	A		
EA1CXH	16,916	138	39	A	10	HABAR	275,418	642	143	B		LZ2AG	9,975	95	35	C	OK2SG	18,240	160	38	B	15	SM7DBN	40,014	171	78	A		
EA3BOW	8,184	88	31	B	10	HABH	235,152	552	142	B		LZ1ABC	2,808	52	18	C	OK1DVK	14,484	142	34	A	15	SM2T(SM2E2T,op)						
<b>Balearic Islands</b>						HAAZC	81,189	279	97	B		LZ4ZP	100,128	596	56	C	OK1AJJ	957	29	11	A	15	SM0BDS	580,620	980	173	B		
EA6SK	2,160	36	20	A		HABIC	49,920	260	64	B		LZ2JA	22,113	189	39	C	OL5Y(OK1FUA,op)						SM0BDS	284,580	620	153	B		
EA6BB	714	17	14	A	20	HAGGA	36,423	171	71	B		LZ2JK					OL6M(OK2BMV,op)	161,865	981	55	C	10	SM7BJW	185,250	494	125	B		
<b>Ireland</b>						HA3OU	119,700	350	114	C		LZ2LJ(LZ2VL,op)					OL6M(OK2BMV,op)	94,095	615	51	C	10	SM7ATL	93,072	277	112	B		
EI4DW	653,715	1095	199	B		HA6PQ	110,160	340	108	C		LZ1UQ	128,628	794	54	C	OK1QM	78,705	495	53	C	10	SM5AOG	89,628	308	97	B		
EI8GP	73,500	500	49	B	10	HG3M(HA3MY,op)	58,032	403	48	C	80	LZ3YV	42,255	313	45	B	OK1AVY	77,436	478	54	C	10	SM4SX	59,616	216	92	B		
<b>Moldova</b>						HA8FM	175,218	1007	58	C	40	LZ3PM	40,719	277	49	C	OK1ACF	68,370	430	53	B	10	75W8	31,506	178	59	B		
ER1CW	95,484	292	109	B		HA3OV	98,898	622	53	C	40	LZ2GS	36,000	250	48	B	OK2ZC	68,328	438	52	B	10	SM3ARR	27,948	137	68	B		
ER4DX	1,475,220	2138	230	C		HA8LM	71,280	495	48	C	40	LZ1FH	34,584	262	44	B	OK1XC	55,650	371	50	B	10	SM3DXC	7,875	75	35	B		
ER1LW	31,680	264	40	B	40	HA5BSW	42,780	310	46	A	40	LZ1CF	28,350	210	45	B	OK1CZ	54,444	349	52	B	10	SM5CIL	687,027	1199	191	C		
<b>Estonia</b>						HA3LI	25,712	212	42	B	20	LZ2TF	18,126	159	38	B	OK1AES	44,352	308	48	B	10	SL3A(SM3VMV,op)						
ES1CR	15,552	144	36	B	15	HABYU	16,956	157	36	B	20	LZ4BU	4,872	56	29	B	OK2WTM	43,608	316	46	C	10	SK6HD(SM6FKF,op)						
<b>Belarus</b>						HA8TP	54,750	365	50	B	15	<b>Austria</b>					OK2PDT	36,309	247	49	C	10	SM6CNS(DU7CC,op)						
EU8RZ	104,760	360	97	A		HA3NU	92,988	574	54	C	10	OE1BKA	24,528	146	56	B	OK2EZJ	34,443	267	43	B	10	SM3R(SM3CBR,op)						
EU8DS	297,672	632	157	B		HA0HV	80,850	490	55	B	10	OE3VIA	14,175	105	45	B	OK1DEK	24,552	186	44	C	10	SM6WQB	152,148	409	124	C		
EU7EA	25,200	150	56	B		HA8FK	77,040	535	48	B	10	OE3JOS	405,510	801	170	C	OK2WO	11,616	121	32	B	10	SM7CWI	16,182	93	58	B		
EU1SA	289,755	685	141	C		HA0IT	68,061	463	49	B	10	OE6HZG	151,320	485	104	C	OK2BHE	2,700	45	20	B	10							
EU2AA	240,219	651	123	C		<b>Switzerland</b>						<b>Aland Islands</b>					<b>Slovakia</b>						SK0X	108,414	634	57	C	40	
EU6AF	196,107	499	131	C		HB2DAX	77,220	260	99	A		OH0B(OH2PM,op)	2,265,660	3070	246	C	OM5AV	427,350	814	175	B		75Z2	35,604	276	43	C	40	
EU1PA	21,576	124	58	C		HB2XY	43,143	197	73	A		Finland				OM3CND	237,984	536	147	B		SM5GLE	5,070	65	26	C	40		
EW1WZ(EU1UN,op)	9,516	122	26	C	80	HB9AZ	3,321	41	27	A		OH2YL	22,340	123	60	A	OM8AG	209,610	510	137	B		SM3DMP	266,040	1478	60	C	20	
EW3EW	23,835	227	35	C	40	HB9ARF	314,340	676	155	B		OH3GD	294,840	630	156	B	OM9MM	201,252	541	124	B		SK0UX(SM0COL,op)						
EW3LN	12,576	131	32	C	40	HB9FDP	35,490	169	70	B		OH2NFS	202,776	497	136	B	OM5DM	165,132	447	132	B		SM7N(SM7NDX,op)						
EW6EW	1,200	25	16	B	40	HB2FBT	1,080	20	18	B		OH3IR	149,850	450	111	B	OM7VF	89,544	287	104	B		SM7CW	68,016	436	52	B	15	
EW6CF	51,255	335	51	C	20	HB2FAP	1,680,480	2334	240	C		OH2LYP	123,624	404	102	B	OM6TU	62,910	233	90	B		75SW(SM5BRW,op)						
EU1MM	1,104	23	16	C	20	HB9DCM	223,053	499	149	C		OH2FS	82,008	268	102	B	OM3BA	55,200	200	92	B		SM2CEW	47,187	321	49	C	15	
EU1DX	92,820	595	52	B	15	HB2HFN	6,360	53	40	C		OH3TZ	35,100	150	78	B	OM7IR	30,912	184	56	B		753IK	28,755	213	45	B	15	
EW6I	702	18	13	B	15	<b>Italy</b>						OH2U(ES2RR,op)				OM4DA	16,632	126	44	B		SM5INC	104,775	635	55	C	10		
EU1UN	74,823	509	49	C	10	IK3BK	211,464	534	132	A		OH5NU(OH5JOC,op)	1,837,935	2585	237	C	OM1AW	9,024	94	32	C		SM5DRD	87,927	553	53	C	10	
EW6AW	6,750	75	30	B	10	IK3JLS	40,764	172	79	A		OG3RQ	959,360	1520	206	C	OM3RM	2,160,234	2791	258	B		SM5BSK	53,361	363	49	B	10	
<b>France</b>						IK2VSN	1,320	20	A		OH6XX	192,882	527	122	C	OM3NA	1,053,312	1688	208	C		SM6Z(SM6BZE,op)							
F51CC	329,229	699	157	B		IK2VXV	836,092	1324	211	B		OH3RF	139,302	327	142	C	OM9WR	3,024	72	14	C	160	SM3AVW	38,736	269	48	B	10	
F5MFL	259,632	601	144	B		IK1AIT	117,645	341	115	B		OH2VZ	103,056	304	113	C	OM2DZ	25,380	235	36	C	80	SM3ANBE	29,970	222	45	B	10	
F5AKL	170,856	452	126	B		IK2RJK	101,022	298	113	B		OH1BOI	33,912	157	72	C	OM5R1	10,260	114	30	C	80	SM3D(SM3WU,op)						
F8PDR	162,360	451	120	B		IK7FPU	80,901	267	101	B		OH8YA	70,896	422	56	C	OMTRC	2,295	51	15	B	80	SM0BWM	2,340	39	20	B	10	
F5TVG	144,282	364	139	B		IK2WJU	72,072	312	77	B		OH7KA	37,638	75	5	B	OM7M(OM5RM,op)						SP5DDJ	173,724	467	124	A		
F8GQO	127,440	354	120	B		IK2WYI	43,263	209	69	B		OH8LQ(OH8LQ,op)				OG8L	83,952	528	53	C	20	SP3HC	173,229	511	113	B			
F8IUE	110,700	369	100	B		IK3NVN	40,014	171	78	B		OH2BPA	265,323	1499	59	C	20	OM2TB	6,864	88	26	B	20	SP3GDY	144,072	414	116	B	
F5JBR	82,992	247	112	B		IK8VFP	33,048	162	68	B		OG6AC(OH6CS,op)	12,342	131	34	B	20	OM6AMZ	19,656	168	39	B	10	SP5FC	71,514	274	87	B	
F8AWQ	78,782	282	93	B		IK3ANC	17,820	54	28	B		OG6Y(OH6YF,op)	222,546	1279	58	C	15	OM2EE	11,550	110	35	B	10	SP3XR	48,600	225	72	B	
F5YJ	70,560	224	105	B		IK3SCB	7,560	42	28	B		OG6Y(OH6YF,op)	156,774	901	58	C	15	<b>Belgium</b>						SP6JWC	48,600	225	72	B	
F6IIA	65,340	220	99	B		IK2AHB	999,024	1601	208	C		OH3AG(OH3WV,op)	139,194	814	57	C	15	ON7CC	89,775	285	105	A		SP6BGZ	46,332	198	78	B	
F6DIE	50,400	200	84	B		IK2VSA	628,260	1132	185	C		OH8CW	51,993	327	53	B	15	ON4XG	286,769	597	159	B		SP6ADV	45,045	195	77	B	
F6Z0E	20,880	116	60	B		IK3FHL	69,276	251	92	C		OH4TY	12,960	120	36	B	15	ON4AWH	246,600	548	150	B		SP6GFI	33,228	156	71	B	
F6EEQ	10,512	73	48	B		IK3BCC	25,536	133	64	C		OG1MM	164,778	947	58	C	10	ON6ML	132,042	373	118	B		SP6YU	21,600	130	54	B	
F5NXL	9,450	105	30	B		IK2BCP	15,933	113	47	C		OH6OS	145,365	881	55	C	10	ON4CHK	40,581	167	81	B		SP6NY	21,600	130	54	B	
TM6P(F5MZN,op)	2,247,966	2817	266	C		IK3DFI	12,384	96	43	C		OG1F(OH1NOA,op)	83,793	527	53	C	10	ON5JD	34,164	146	78	B		SP5BN	19,050	127	50	B	
F6CWA	317,538	598	177	C		IK4MHB	5,292	84	21	C	160	OH1JM	39,744	288	46	B	10	ON4CAU	31,212	153	68	B		SP4GLH	14,535	95	51	B	
F5NSO	825	25	11	B	80	IK3VHO	2,295	51	15	C	160	OH3KAV	17,520	146	40	B	10	ON4KMB	3,519	51	23	B		SP9JKU	4,524	58	26	B	
F6KQP(F6ETI,op)	61,488	427	48	C	40	IR4T(IK4UPB,op)	198,063	1119	59	C	40	OH3KVD	15,330	146	35	B	10	OT0T(ON4UN,op)						SP2FAX	2,727,480	3247	280	C	
F5NKL	11,220	110	34	B	40	IQ7A	102,648	61	56	C	20	OH7KD	10,330	146	35	B	10	ON6AB	5,658	82	23	B	80	SP7GIQ	2,591,277	3211			



