

Results, 1988 ARRL International DX Contest

Everything was up: participation, propagation, scores and enthusiasm.

By Billy Lunt, KR1R and Mark Gamble, N1FOZ
Contest Manager, ARRL Assistant Contest Manager, ARRL

All bands sprang to life during the weekends of Feb 20-21 and Mar 5-6, providing vast amounts of activity for this year's ARRL International DX Contest. The Contest Branch received logs from 119 different DXCC countries and virtually every US state and Canadian province. For those who were participating, it was possible to achieve DXCC in a single 48-hour period. Propagation was a primary factor in generating the excitement and enthusiasm which evolved from this year's contest. Band openings were lengthy and extensive. It seemed like the good ol' days when twenty never closed! Fifteen was hopping and even ten meters provided good QSO and multiplier totals. The top Caribbean entries monopolized on the ten-meter band openings, especially during the phone weekend. PJ2FR (N6KT op) knocked out 3377 QSOs on ten meters alone! All bands seemed to be overflowing with activity. It was hard to decide which band you should be on at any given time. QSOs were plentiful everywhere. Overall W/VE single ops averaged 335 QSOs on CW and 275 QSOs on phone per entry. The average QSOs per operator is impressive in itself, but better still are the QSO totals of the W/VE champions, KM1H (KQ2M op) and K3TUP (K3LR op). Their massive efforts secured 2515 QSOs and 2177 QSOs respectively. By no means did the DX single ops let their side of the competition down. They generated an average of 296 QSOs on CW and 526 on phone. P40GD (W2GD op) and PJ2FR (N6KT op), the DX single-op leaders, cranked out 6001 and 9205 QSOs respectively. A glance at this year's standings shows a substantial increase over last year's. Just think, this is only the beginning of the new sunspot cycle!

Great band conditions were reported from nearly all areas of the globe. "I couldn't believe I heard a ZL on 160 meters," stated Art, N2KA. Tom, VU2TJW, was "pleased to hear 21 MHz open to W/VE!" "The sunspots are good enough for milliwattage again," exclaimed Chris, G4BUE. "Fifteen meters to Japan sounded as good as 15 meters to Missouri from my Georgia QTH," said Bill, KM9P. "I broke the loudest pileup ever on 160 for 9Q5NW," contends WA4SVO. CT1BOH claims, "There was super propagation!" "This year's contest was a great one! I doubled my score from last year," remarks Julio, WD4JNS. These are just a few of the many sentiments that summed up the feelings of this year's contenders.

A total of 3394 logs were received for the 1988 contest. This marks yet another substantial increase in HF contest participation, marking a gain of 612 log entries over last year's DX contest. Logs received from DX stations totaled 873 CW and 575 phone; as for the W/VEs, there were 810 CW and

904 phone. A special thanks to those 232 ops who submitted checklogs.

W/VE Highlights

It was an East Coast battle for the top single-op positions on both CW and phone. The winner of the CW single-op plaque was

Affiliated Club Program

Unlimited Category	Score	Entries	CW Winner	Phone Winner
Yankee Clipper Contest Club	78,341,070	105	KM1H	KC1F
Frankford Radio Club	75,472,197	105	N2LT	N300
Northern California DX Club	27,767,298	134	VE2AQS/W6	K6HNZ
Southern California DX Club	4,555,848	67	W6BA	K6EID
Medium Category				
Potomac Valley Radio Club	30,374,367	45	K3ZO	KE9A
Mad River Radio Club	18,336,965	24	K3TUP	K3TUP
North Texas Contest Club	13,914,102	25	N5RZ	N5RZ
Texas DX Society	6,896,679	5	W5ASP	K5DX
Dixie DXers	6,150,519	15	WX4G	WX4G
Minnesota Wireless Assn	4,890,240	4	—	—
Willamette Valley DX Club	4,836,659	11	K5MM/7	AI7B
Central Virginia Contest Club	4,608,285	6	WU4G	W4DR
Western Washington DX Club	4,494,549	33	N7TT	N7TT
San Diego DX Club	3,911,784	11	W6BZE	N6AW
Murphy's Marauders	3,789,531	20	KG1D	KG1D
Mississippi Valley DX/Contest Club	3,227,070	5	N0G	K4VX/0
Eastern Iowa DX Assn	3,145,068	30	N0SM	W0WP
Rochester (NY) DX Assn	2,291,685	13	W2TZ	W2TZ
Society of Midwest Contesters	2,269,299	15	K9CAN	K9CAN
Western New York DX Assn	1,891,311	11	KA2AJT	KA2AJT
Salt City DX Assn	1,726,956	6	K2KIR	WA2UUK
Kansas City DX Club	1,361,847	10	W0JLC	WA0TKJ
South Jersey Radio Assn	1,297,233	27	WA2VYA	W2PAU
Southeastern DX Club	1,277,517	14	W4DXI	W4DXI
Grand Mesa Contesters	1,158,990	11	N0ZA	N0ZA
Northern California Contest Club	1,084,035	8	N6TU	N6TU
Albany ARA	1,059,342	7	K2VV	WB2HIH
Redwood Empire DX Assn	757,989	16	K6ZUR	N6OJ
Central California DX Club	695,250	12	K6DT	K6DT
Southern California Contest Club	607,374	6	N6AA	N6AA
Long Island DX Assn	249,159	6	K2YGM	K2MFY
Gloucester Co ARC	205,107	3	K2JF	K2JF
Tyler ARC	116,919	6	—	KD5GD
West Park Radiops	71,430	7	W8IDM	W8IMF
Clark Co (IN) ARC	31,842	5	WB9NQQ	N4DBJ
Local Category				
Overlook Mountain ARC	9,594,462	8	K5NA	KY2J
Long Island Contest Club	5,129,865	4	KD2TT	—
Northern Ohio DX Assn	2,774,016	4	N8BC	N8BC
Hoosier Contest Club	1,764,117	4	W9RE	KB0C
Boiled Owls of New York	1,696,683	3	K2LE/1	—
Dauberville DX Assn	1,694,625	9	—	KQ3V
Western Pennsylvania DX Assn	968,679	8	KX2A	K3MD
River City Contesters	844,209	4	KV6H	KV6H
Grumman ARC	808,974	4	WA2LQO	WA2LQO
Central Arizona DX Assn	697,488	4	KC7V	KC7V
Carolina DX Assn	666,534	5	N4IR	N4UH
Utah Contest Club	554,652	4	W7HS	WE7B
Fox Cities ARC	424,911	3	N9ER	W9OP
Columbus (OH) ARA	402,501	5	W8ZCQ	W8CZQ
Fox River Radio League	308,952	7	N9JC	WD9GIG
Metrocrest ARC	257,232	4	W5MW	NSIET
Alamo DX Amigos	217,107	7	N5HB	K5DB
Northern Illinois DX Assn	214,278	4	K9KA	W9CH
Madison DX Club	37,500	3	W9WAQ	N9BUS
Arrowhead Amateur Club	24,465	3	W0RXL	N9DMG
Great South Bay ARC	23,361	3	—	KA2RGI
Lake Success Radio Club	13,629	6	WA2MAV	N2DSL

Top Ten—W/VE CW

Call	Score	160	80	40	20	15	10
KM1H (KQ2M,op)	2,799,195	75/45	361/65	578/72	781/79	686/81	34/29
KC1F	2,541,720	50/34	256/59	589/81	859/79	563/75	43/31
K1TO	2,476,803	51/36	329/59	440/76	981/79	583/78	23/15
K3TUP (K5ZD,op)	2,338,098	34/30	212/66	491/80	742/80	659/78	39/24
K1EA	2,255,478	24/21	354/55	488/66	771/70	738/81	27/20
N2LT	2,132,688	31/25	205/53	604/74	764/70	634/76	27/16
K3ZO	2,120,520	23/23	319/65	463/65	756/75	568/75	26/25
K1BW	2,054,517	44/31	295/60	389/71	687/68	615/76	39/25
K3OO	1,915,842	33/27	270/53	434/67	634/65	737/67	35/19
N3AD	1,802,832	33/25	289/57	562/64	726/68	478/57	28/13

Top Ten—W/VE Phone

Call	Score	160	80	40	20	15	10
K3TUP (K3LR,op)	2,818,044	35/24	133/54	124/57	892/119	1162/100	75/34
KC1F	2,631,585	46/34	188/69	125/57	1198/116	642/85	56/28
WX4G	2,142,546	45/30	93/51	172/48	677/105	865/94	94/39
K3OO	2,029,200	44/29	115/51	106/49	678/101	894/92	63/34
VO1MP	1,997,088	18/17	149/62	210/61	1479/90	405/54	11/9
K1DG	1,966,965	41/31	134/61	117/62	745/108	613/95	53/28
W2RQ	1,830,132	0/0	138/58	127/52	930/119	496/85	62/34
KE9A	1,595,751	35/24	103/51	79/44	725/105	608/79	57/28
N2LT	1,576,845	33/24	86/48	119/54	611/102	663/84	57/23
K1IU	1,474,704	41/31	172/51	408/64	442/59	497/74	36/29

Top Ten—DX CW

Call	Score	160	80	40	20	15	10
P40GD (W2GD,op)	6,031,005	377/51	744/57	901/57	1215/57	1170/57	1594/96
NP4A (K7JA,op)	5,682,302	424/52	661/55	1083/57	1090/57	1185/57	1208/56
8P9EK (K4TKM,op)	3,772,062	128/30	432/53	943/56	1013/57	658/55	935/55
VP2MDC (K1TN,op)	3,168,756	52/18	220/47	438/48	991/56	999/54	1127/53
KH6XX (KH6ND,op)	2,671,200	190/41	344/50	713/55	587/54	769/56	365/44
HD8D (N6EK,op)	2,089,860	0/0	98/29	601/52	574/52	755/56	827/55
F6BEE	1,667,742	94/24	308/45	515/47	649/55	721/52	39/16
OK1RI	1,497,222	77/20	262/45	632/52	745/57	522/49	0/0
NP4Z	1,480,290	0/0	246/44	275/47	395/48	559/56	539/50
OA4SS	1,369,980	0/0	139/37	238/43	322/47	680/57	556/52

Top Ten—DX Phone

Call	Score	160	80	40	20	15	10
PJ2FR (N6KT,op)	9,030,105	227/47	523/54	713/56	2502/57	1863/57	3377/56
P40V (A16V,op)	7,274,946	269/45	512/54	654/53	1875/58	1423/55	2798/57
FY5YE (OH6XX,op)	5,913,756	184/42	315/52	251/43	1805/58	2819/56	1288/55
VP2MBA	5,522,139	159/39	303/50	538/52	1560/56	1847/57	1550/54
KH6XX (KH6ND,op)	4,646,235	159/49	440/57	986/55	1161/58	1521/58	588/42
ZP5JCY	4,157,727	2/2	121/40	380/48	1998/59	1164/56	1688/54
WR6R/KH6	3,329,460	79/29	568/53	672/56	1141/54	1521/55	209/18
J52US (K8MN,op)	3,011,295	7/5	327/46	345/45	1216/55	1517/51	753/39
HD8D (N6EK,op)	2,997,540	0/0	218/46	252/37	729/57	1597/56	1169/56
KH6RS	2,898,960	62/24	447/50	440/49	1389/55	1217/54	205/25

once again Bob, KQ2M, operating from NH-based KM1H. Bob's 2.8-meg points out-gunned Stew's (KC1F) score by over 200k. The two NH big guns were not alone. K1TO was blowing some serious smoke from CT. Dan scored 2.4 meg for the third place spot.

Tim, K3LR, guest operating at K3TUP, scored over 2.8 meg to secure first-place phone. Stew, KC1F, put in yet another strong second place effort. His final score was 2.5 meg points. Bob, WX4G, secured third place with an impressive 2.1 meg score.

Once again, for the fourth year in a row, Gus, VO1MP, out-manuevered all others on low power (150 W or less) CW for the win. Fred, W2TZ, more than doubled his last year's score of 371k, finishing second with 703k. Mark, K0EJ, put in a respectable third place effort of 579k points.

Fred, W2TZ, didn't give it a rest; he returned to win low-power phone with 563k. Ron, K8NZ, scored 477k to finish second, followed by Richard, KA2AJT.

CW QRPer Joe, W8VSK, outdistanced the second-place finisher, Jeff, N8II, by more than 60k for the win. Their final scores were 226k and 161k respectively. Chuck, N6OJ, won the QRP phone plaque with a score of 135k. WA0VBV put forth his best foot and

placed second with 117k.

In the single-band 160-meter phone category there were 13 entrants. WA4SVO more than doubled the second-place phone finisher's score, with 17k. Jeff, K1ZM, reclaimed the 160 CW plaque again with 21k points. The 80-meter W/VE phone crown went to Andy, N2NT, scoring 78k. Bob, W6RJ was the 80-meter CW champion this year, outperforming the competition by over 18k. Glenn, K6NA, won the 40-meter single-band phone plaque with a score of 124k. The 40-meter CW winner was Bill, K2EK. Lou, KS1L, topped all the others on 20 meters with a score of 566k. The 20-meter brass-pounding champ was John, K2VV, with over 483k. Jeff, WC4E, operating from K4XS, won the 15-meter phone category with 561k. With over 265k points, K1RM won the 15-meter CW category. Rick, K5UR, led the way on 10 phone with over 77k. The CW 10-meter champ was Bob, N4BP, with 24k points.

There was some rigid competition in the W/VE multi-single category. During the CW contest, the struggle for top spot was between K3WW and KY2J. The K3WW bunch won with a score of over 1.9 meg outdistancing KY2J and crew by over 180k. The phone

Top W/VE Single-Band Scores—CW

160		20	
K1ZM	21,960	K2VV	483,276
N4IN	15,741	K1RU	452,076
K4TEA	9,768	N2AA	410,685
N4SU	9,648	K2TW	277,200
WB2V	8,178	NM2L	274,125
WB8JBM		VO1QU	270,354
(KW8N,op)	5,775	N8CXX	
W1NG	5,460	(K8JM,op)	257,805
WB3AVN	4,092	N4ZC	
W4OO	3,192	(WA8MAZ,op)	253,170
W2FCR	2,550	WD8LLD	232,815
		W6QHS	204,072
80		15	
W6RJ	70,584		
K1IK	51,840	K1RM	265,236
K8HVT/1	44,388	N4ZZ	212,840
W4HBK	27,189	W5VX	202,704
AA4NC	26,622	K6LL7	181,920
AA7A	24,804	WB4TDH	173,145
W9WAQ	24,360	N4VZ	170,613
N6AW	15,876	VE6CB/3	170,100
W2FR	15,606	KA5W	162,960
WB5ZKR	14,664	K5MK	161,238
		K6PU	158,670
40		10	
K2EK	317,376	N4BP	24,165
K1XA	242,802	K5UR	23,580
K8PO	214,110		
K5RR		N4EJV	16,992
(WD5K,op)	162,000	W4VQ	6,528
KS1L	153,090	W9GIL	5,376
N6ADI	134,748	W5BOS	5,247
KB0G	115,911	K1EFI	4,524
K8XR	113,295	VE1BNN	4,437
K9KA	95,202	K6SIK	4,368
K9AY	66,816	VE2AEJ/3	4,284

Top W/VE Single-Band Scores—Phone

160		20	
WA4SVO	17,658	KS1L	566,547
WB3GCG	8,316	K1UO	549,582
KF4HK	8,160	VO1QU	416,700
K4TEA	6,954	K1NG	
W2FCR	5,100	(KD2SX,op)	385,104
WB3AVN	4,998	W7EJ	335,664
K3JA	3,240	VE1BDK	290,418
N2KA	3,219	KK9A	286,848
K8CFU	2,484	W7WA	
N6LL		(K7RI,op)	273,600
(WA6CDR,op)	1,176	W6QHS	262,800
		W8TWA	224,100
80		15	
N2NT	78,210		
KW8N	72,420	K4XS	
W6RJ	51,333	(WC4E,op)	561,600
KU8E	35,190	K5KT	405,132
WB2ULI	32,436	WB8JBM	
WA4YBV	28,620	(N8DCJ,op)	354,594
K8CCV	23,010	N4ZZ	341,802
N3AHF	21,870	VE3XN	305,316
KE9U	14,820	KM6B	294,903
K8OQL	13,158	W2IJ/6	241,488
		W2HFF	238,992
		NO4J	234,522
		KA5W	217,854
40		10	
K6NA	124,806		
K8XR	58,539	K5UR	77,175
K8PO	56,160	N4EJV	
K4RIG	33,540	(N4EJV,op)	66,096
W9CH	31,482	K9MK/5	34,626
KC7KU	26,970	N4VZ	23,940
W4OWY	20,790	VE1BNN	22,605
KD5IA	19,812	W5EW	20,904
AD8C	13,608	KR9G	17,901
W5PWG	13,254	K1EFI	15,870
		KQ1V	14,628
		K2OLG	14,238

multi-single category proved to be a EPA brawl between W3BGN and N3RS. W3BGN and crew rose above and won with well over 2.4 meg. In the multi-two CW category, N3RS gave no ground. They took the K2TR crew on and won with 3.6 meg. The multi-two phone contest was a different story for K2TR, however. Fred and the boys laid down the law with a score of over 4.1 meg. W3LPL left no survivors in both the CW and phone contests. Their multi-unlimited efforts just

Top W/VE Multioperator Scores—CW

Single Transmitter

Call	Score	160	80	40	20	15	10
K3WW	1,911,996	45/36	194/64	508/86	621/70	449/68	25/22
KY2J	1,700,244	46/36	152/58	374/75	595/75	423/66	48/36
W3XU	1,644,300	0/0	162/50	426/66	728/72	543/77	31/25
KM1C	1,637,685	31/30	249/58	435/73	611/67	372/62	30/25
WM5G	1,570,668	20/17	86/47	589/79	374/71	476/76	61/36

Two Transmitter

N3RS	3,692,808	48/39	260/69	700/97	1083/94	697/88	68/44
K2TR	3,318,912	74/47	149/55	488/71	1270/91	846/84	54/36
K6AZ	2,939,625	30/26	242/64	411/80	1140/88	737/83	53/34
KY1H	2,824,620	32/26	218/58	580/80	1111/90	643/72	46/32
N6RO	2,788,560	40/14	261/54	667/83	877/93	608/82	129/34

Unlimited

W3LPL	6,017,760	117/55	641/77	1090/101	1196/101	1018/91	117/55
K1ST	3,777,018	54/40	226/65	870/94	1257/90	640/85	54/32
AA1K	2,703,477	58/42	258/56	579/83	836/81	660/80	38/29
K1AR	2,509,050	49/35	220/61	511/81	832/87	494/84	44/31
N6ND	2,491,983	55/21	264/58	699/86	571/86	585/74	127/36

Top W/VE Multioperator Scores—Phone

Single Transmitter

Call	Score	160	80	40	20	15	10
W3BGN	2,481,717	56/36	151/64	180/70	868/113	679/92	69/38
N3RS	2,241,594	39/30	111/55	211/69	573/106	802/107	83/44
N5AU	1,881,810	34/25	75/51	220/66	256/94	751/102	209/68
N2FB	1,722,513	38/27	148/62	149/59	604/94	745/85	61/31
WB8K	1,669,305	26/20	73/46	149/59	604/94	745/85	61/31

Two Transmitter

K2TR	4,181,706	89/52	303/87	179/79	1428/127	706/110	94/43
N6RO	3,954,846	12/9	141/54	601/60	885/122	1234/104	374/57
NB1H	3,080,784	42/32	90/56	136/67	1626/136	456/94	72/39
K8CC	2,760,000	37/23	126/65	152/59	814/108	1074/105	97/40
N2MG	2,720,400	30/21	210/72	126/55	1237/122	586/94	78/36

Unlimited

W3LPL	6,568,521	106/56	397/91	315/84	1273/135	1525/126	273/71
NR5M	4,841,751	58/36	194/71	391/72	886/113	1363/118	395/81
K5NA	3,733,047	77/45	240/75	171/68	1413/128	699/102	111/41
WM5G	3,644,775	47/30	203/85	327/78	745/120	1003/112	180/60
K1AR	3,369,900	43/36	157/69	185/78	1097/133	840/111	68/43

Top DX Multioperator Scores—CW

Single Transmitter

Call	Score	160	80	40	20	15	10
ZF2KE	5,851,110	413/53	809/57	984/57	1259/57	1618/58	739/53
PJ9J	5,521,473	389/51	640/56	982/57	972/57	1167/56	1377/56
J34A	3,730,647	198/42	560/55	824/54	812/55	878/54	701/53
OH5BA/CT3	2,772,840	172/33	467/51	721/54	925/57	822/53	206/32
XE2EBE	2,616,090	206/44	536/54	556/51	798/53	546/50	365/38

Two Transmitter

JA1YXP	626,982	5/2	147/28	212/36	504/51	391/49	0/0
JA1YFG	532,857	0/0	155/35	187/32	412/52	291/47	6/3
JE3ZFS	477,630	4/2	104/12	396/43	339/47	254/40	1/1

Unlimited

I3FIY	2,400,840	153/25	504/48	865/51	950/57	733/52	35/14
YT2R	1,838,376	147/25	374/38	899/48	797/55	614/47	6/3
JE2YRD	1,031,940	18/6	181/28	440/47	619/55	480/52	28/7
HG8Q	1,004,640	5/4	256/36	398/42	569/53	611/46	1/1
YZ4J	257,040	0/0	24/12	390/40	189/36	117/31	0/0

Top DX Multioperator Scores—Phone

Single Transmitter

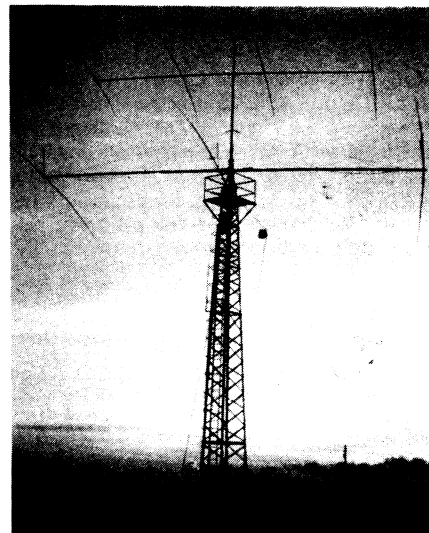
Call	Score	160	80	40	20	15	10
VP2MU	8,605,653	291/51	586/54	471/53	2653/57	1610/58	3108/56
8P9X	8,518,002	367/54	786/55	1014/57	1422/57	1725/56	3187/55
PJ9J	7,820,475	343/52	643/55	782/53	1868/56	1574/56	2831/53
XE6DX	6,796,566	394/56	1059/57	890/57	1519/58	2210/57	711/49
P40X	5,964,720	30/17	548/54	566/54	1874/57	1334/56	2504/52

Two Transmitter

KP4BZ	11,428,860	276/50	689/56	1857/57	3275/58	3712/59	1563/55
8D2DX	8,723,310	181/44	997/57	1188/57	2622/58	2735/55	1567/42
XE2GDK	6,297,360	446/51	1050/56	1168/56	1826/55	1529/48	886/38
JA1YWX	972,942	0/0	108/17	313/38	455/50	1013/56	53/6
JA7YFB	747,516	0/0	58/10	252/32	621/54	651/54	36/4

Unlimited

I3MAU	2,439,840	96/25	501/45	560/46	1308/57	1066/55	5/2
KL7RA	1,076,708	0/0	15/7	438/42	1158/56	675/52	0/0
JA7YAA	1,016,028	0/0	153/19	293/32	822/55	654/51	106/10
JA9YBA	701,790	0/0	102/12	227/28	408/50	730/51	43/8
YZ4J	48,741	0/0	13/8	66/21	95/27	37/21	0/0



A view of the antennas used by Veroli, I4VEQ, who finished second-place world 40-meter single-band.

plain crushed the competition. On CW, they scored 6 meg finishing ahead of K1ST by over 2 meg. During the phone weekend, the king of the multi-multi stations, W3LPL, set the pace set, once again, scoring 6.5 meg for the plaque. NR5M and crew finished second with 4.8 meg points.

DX Highlights

The competition for DX plaques was thick, particularly in the single-operator categories. P40GD (W2GD op) returns for the CW single-op win. His score of over 6 meg was enough to beat NP4A (K7JA op), who slid into second with over 5.6 meg. Walking away with the phone plaque this year was PJ2FR (N6KT op). His score of over 9 meg outlasted P40V by a solid 1.7 meg. Though not winning the plaque, P40V (A16V op) walloped those behind him by well over 1 meg.

The multi-single battle for both CW and phone plaques was furious. On CW, ZF2KE was able to pull an additional 300k out of the ether for 5.8 meg and the win. PJ9J feuded his way to second place with an formidable 5.5 meg. The scores on multi-single phone were extraordinary; VP2MU, the winner, scored over 8.6 meg points. In a close second, with a score that certainly can't be scoffed at, was 8P9X with 8.5 meg. The CW multi-two plaque went to JA1YXP. On phone, with the highest overall score of the contest (both weekends), was KP4BZ and crew scoring 11.4 meg. The multi-unlimited categories were won by I3FIY on CW and I3MAU on phone.

Affiliated Club Competition

It was a tough battle for the unlimited-category gavel. For the second year in a row, the Yankee Clipper Contest Club has been able to outdistance their archrivals, the Frankford Radio Club. They won this year with a score of 78.3 meg as opposed to the FRC's 75.4 meg. In the medium-club category, it was the Potomac Valley Radio Club returning for the win. But this year they clobbered the Mad River Radio Club by over 12 meg points. The PVRC's final score was 30.3 meg. The Overlook Mountain ARC won the local category with 9.5 meg. They

defeated the Long Island Contest Club by a solid 4 meg.

The year 1988 brought an increase in entries along with great band conditions, resulting in high scores and fun for all. The Contest Branch would like to thank all those who participated in this year's contest. A special thanks to Contest Assistant Mark R. Burke, KA1MIS, for his help in preparing this report. We hope to see you all again next year. BCNU.

SOAPBOX

W/VE CW

It was great fun to operate in the ARRL DX Contest from home again (K3UOC/1). I had some truly unusual and unpleasant experiences as I pushed myself to the limit in the ARRL CW Contest! After

Special Plaques

Single Operator

W/VE Combined Score
W/VE Low Power, Combined Score
World Combined Score
Africa, Combined Score
Atlantic Division (CW)
Great Lakes Division (CW)
Great Lakes Division (Phone)
Hudson Division (CW)
Japan, Low Power, All Band (CW)
Seventh Call Area (CW)
Seventh Call Area (Phone)
Single Operator Under 18 (Phone)
USSR All-Band (CW)

USSR All-Band (Phone)

Winner

KC1F
W2TZ
KH6XX (KH6ND,op)
J52US (K8MN,op)
K3TUP (K5ZD,op)
K8CC
WB3KXX
N2LT
JA7SUR
K5MM/7
A17B
WE7B
UQ1GWW
(UQ2-037-116,op)
RA0FA

Donor

National Contest Journal
Rochester (NY) DX Assn
Mike Manato, K3UOC, P46S, 4M4A
N4NW, KC4NC and AL7EL
K2NY Memorial-Salt City DX Assn
Livonia Amateur Radio Club, Livonia MI
Livonia Amateur Radio Club, Livonia MI
W2AO Memorial-Order of Boiled Owls
Western Washington DX Club
Willamette Valley DX Club
Willamette Valley DX Club
Virginia A. Greene, WB1AVA
K1KI, K1ST, W2NC, WB4TDH, W5BOS,
AA6BB, KA6V, SV0AA
K1KI, W2FG, NT2X, W4MOM, W5BOS,
AA6BB, KA6V, K18M

Multioperator

Caribbean Multi-Single (CW)
Caribbean Multi-Single (Phone)
Multi-Multi Combined World

ZF2KE
VP2MU
YZ4J

The YASME Foundation
W5MYA
W2PV Memorial-Schenectady ARA

DX Plaque Winners—CW

Single Operator Winner

World P40GD (W2GD,op)
Africa J52US (K8MN,op)
Asia JA7FWR
Europe F6BEE
North America NP4A (K7JA,op)

Oceania KH6XX (KH6ND,op)
South America P40GD (W2GD,op)
1.8 MHz YV1OB

3.5 MHz K8WW/VP9
7 MHz KV4FZ (N6OP,op)
14 MHz G3FXB
21 MHz PY5ZBA
28 MHz VP2ERA (N6RA,op)
QRP NP4Z

Multioperator, Single Transmitter

World ZF2KE
Africa OH5BA/CT3
Asia UZ0CWA
Europe F5IN
North America ZF2KE
South America PJ9J

Multioperator, Two Transmitter

World JA1YXP
Asia JA1YXP

Multioperator, Unlimited

World I3FIY
Asia JE2YRD
Europe I3FIY

Donor

North Jersey DX Assn
Byron P. Peebles, WB3KTX
Alamo DX Amigos
Clarke V. Greene, K1JX
Vic Clark W4KFC Memorial
Award-PVRC
Robert J. Halprin, K1XA
Herbert Hoover W6ZH Memorial
Jim Dionne, K1MEM and Bill
Poellnitz, K1MM
Mad River Radio Club
Dr W.R. Staples, W4SME
Bencher, Inc.
Southern New England DX Assn
N4PW
Rick KZ2E-Woodbridge Wireless, Inc

John Brosnahan, W0UN
David Brandenburg, K5RQ
Kenwood USA Corporation
The Radio Place
Kenwood USA Corporation
Kenwood USA Corporation

Tom Frenaye, K1KI
Kenwood USA Corporation

H. Stephen Miller, N0SM
Kenwood USA Corporation
Texas DX Society

DX Plaque Winners—Phone

Single Operator Winner

World PJ2FR (N6KT,op)
Africa J52US (K8MN,op)
Asia JH7DNO
Europe GW4BLE
North America VP2MBA
Oceania KH6XX (KH6ND,op)
South America PJ2FR (N6KT,op)
1.8 MHz 4U1UN (K2GM,op)

3.5 MHz TI2LTA
7 MHz XE2NQ (AA5B,op)
14 MHz HC1HC

21 MHz PT9ZZ (PY5CC,op)

28 MHz YU6PM
QRP TG9GI

Multioperator, Single Transmitter

World VP2MU
Africa EA9AM
Asia JE2YRD
Europe F6BEE
North America VP2MU
Oceania KH6WO
South America PJ9J

Multioperator, Two Transmitter

World KP4BZ
Asia JA1YWX
Europe LZ1KDP

North America KP4BZ

Multioperator, Unlimited

World I3MAU

Asia JA7YAA
Europe I3MAU
North America KL7RA

Donor

North Jersey DX Assn
Kenwood USA Corporation
Acadiana DX Assn
Gerald Griffin, MD, W8MEP
Chod Harris, VP2ML
Doc Sayre, N7AVK
Kenwood USA Corporation
Fred Race W8FR in Memory of
Charlie O'Brian, W2EQS
Kenwood USA Corporation
Central Arizona DX Assn
Don Wallace W6AM Memorial,
Central CA DX Club
Ray Molony W2NCL Memorial,
Long Island DX Assn
Contest Committee-LIMARC
Gerald Griffin, MD, W8MEP

ARRL
Kenwood USA Corporation
Kenwood USA Corporation
Metro DX Club
Society of Midwest Contesters
Society of Midwest Contesters
Kenwood USA Corporation

Kenwood USA Corporation
Kenwood USA Corporation
Tom Middleton, WB4CKY and
Joy Middleton, KB4OMW
George Schultz, W0UA and
John Brosnahan, W0UN

Phil Sager, WB4FDT, in memory of
John Wilson, K4YF
Kenwood USA Corporation
ARRL
ETO Inc/ALPHA

W/VE Plaque Winners—Phone

Single Operator Winner

All Band K3TUP (K3LR,op)
1.8 MHz WA4SVO
3.5 MHz N2NT
7 MHz KN6A
14 MHz KS1L
21 MHz K4XS (WC4E,op)
28 MHz K5UR

QRP N6OJ

Donor

Frankford Radio Club
Butch Greve, W9EWC, Memorial
Lance Johnson Engineering, K0CS
David L. Thompson, K4JRB
Dayton Amateur Radio Assn
Kenwood USA Corporation
Windsor Amateur Radio Club,
VE3OW
Marlis, N4MZJ, Woodbridge Wireless
Inc

Multioperator

Single Transmitter W3BGN
Two Transmitter K2TR
Unlimited W3LPL

Kenwood USA Corporation
Kenwood USA Corporation
Western New York DX Assn

W/VE Plaque Winners—CW

Single Operator Winner

All Band KM1H (KQ2M,op)
1.8 MHz K1ZM
3.5 MHz W6RJ
7 MHz K2EK
14 MHz K2VV
21 MHz K1RM
28 MHz N4BP
QRP W8VSK

Donor

Frankford Radio Club
Billy Lunt, KR1R
Dayton Amateur Radio Assn
Northern Arizona DX Assn
Fox Cities ARC, W9ZL
Carl Luetzelschwab, K9LA
W5MYA
David Newkirk, AK7M

Multioperator

Single Transmitter K3WW
Two Transmitter N3RS
Unlimited W3LPL

Northern Illinois DX Assn
Kenwood USA Corporation
ETO Inc/ALPHA

Top DX Single-Band Scores—CW

160		20	
YV1OB	66,144	G3FXB	233,682
CT1AOZ	34,440	OH7MA	180,918
XE2NNZ	22,080	G3SXX	175,896
YU2TW	10,530	GM4CXM	142,968
YU4BR	7,410	YT3T	125,064
K6GSS/KH6	4,980	HA5HO	124,578
OK1DWW	2,958	OH6YF	122,430
OK2BQU	957	HA6NNN	121,632
OK1JDX	576	RQ2GN	121,014
JE1SPY	399	JA7HMZ	109,065
80		15	
K8WW/VP9	184,800	PY5ZBA	312,852
TE4T	108,240	HK1KXA	261,801
I2UBI	87,300	KX6BU	156,750
DK8ZB	58,455	IK2EGL	150,891
F6HLC	49,920	G3MXJ	135,945
HA3MY	47,880	AL7HC	133,485
YU2NW	38,205	I2UIY	130,356
UF3BI	29,298	DL6IU	
JA5DQH	27,306	(DL4AAE,op)	126,516
W7AW/KH6	26,532	YU3AI	115,992
		YU4EBL	114,639
40		10	
KV4FZ		VP2ERA	239,085
(N6OP,op)	261,972	ZY5FR	112,728
I2MQP	185,136	LUSVDO	96,252
4N4L		PJ5/W1JP	88,755
(YU4OO,op)	181,335	PT7AA	78,435
YT7A	124,500	CU3AA	45,780
OK3YX	123,450	KH2F	29,898
4M7A		AX4XA	
(YV7QP,op)	104,346	(VK4XA,op)	19,008
9L1GG	91,152	JA9RPU	2,556
YW4B		JH6WHN	132
(YU4BOU,op)	88,605		
LZ1GC	85,800		
SP3RBR	85,104		

Top DX Single-Band Scores—Phone

160		20	
4U1UN		HC1HC	486,330
(K2GM,op)	191,352	I1ZEU	340,692
TI2CC	86,013	PY1ZFO/0	331,296
YV2IF	61,308	9Y4RX	286,776
XE2NNZ	34,545	ZY4OY	208,620
CT1AOZ	34,515	TR8SA	208,620
CU2AF	6,525	OH6LK	205,200
YU2TW	6,072	YU2W	
IV3PRK	4,500	(VT2GW,op)	201,840
OK3CWQ	240	OA4ZV	201,609
		LS8E	
		(LU6EJP,op)	201,318
80		15	
TI2LTA	223,497	PT9ZZ	
4M3B		(PY5CC,op)	637,188
(YV3BKC,op)	133,392	PY5ZBA	592,419
AH6AZ	93,132	HC1OT	592,173
YY5R		LS1E	
(YV5EFP,op)	66,456	(LU8DPM,op)	515,214
I5MXK	58,590	AH6GQ	433,608
G4AMT	42,228	YW1A	384,066
4N2Y	29,304	HK1LDG/HK0	313,170
I4AVG	19,998	GU0/NN50	242,400
4N1A	17,496	YV6DNP	165,648
VK2CWG	14,916	YU1EXY	
		(YZ6AA,op)	157,896
40		10	
XE2NQ		CE6EZ	491,112
(AA5B,op)	219,051	YU6PM	385,416
I4VEQ	140,913	CX2AAL	383,382
CU3AA	106,812	YV6BXN	354,729
4N4L		HC1EA	208,890
(YU4OO,op)	72,756	LS8E	190,176
CT3DL	64,860	LU1NCO	184,968
JA2BAY	56,760	LU4US	125,235
HC1PF	54,849	CE1HBI	119,952
IK2BTI	43,080	ZY1NEZ	72,720
I8RS	41,886		
IS0WON	38,076		

37 hours of non-sleep, the walls started to close-in, followed by double-vision and trouble focusing my eyes. Then after an overdose of No-Doz and coffee, I started having "out-of-body" experiences. Really scary stuff! (KQ2M). When my wife woke me up Saturday morning at 4 AM, I thought she was finally coming around to my way of thinking about contests. Unfortunately, it was to tell me that the dishwasher was leaking! Repairing it really put a crimp in that day's effort. I still beat last year's score and snagged a new country, as well as some new band countries. The mission was still successful (KT2D). When I worked ZL3GQ, I really passed

DX Continental Winners—CW

Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All Band	J52US	JA7FWR	F6BEE	NP4A	KH6XX	P40GD
160	—	JE1SPY	CT1AOZ	XE2NNZ	K6GSS/KH6	YV1OB
80	—	JA5DQH	I2UBI	K8WW/VP9	W7AW/KH6	—
40	9L1GG	JA1YWX	I2MQP	KV4FZ	VK2FEX	4M7A
20	—	JA7HMZ	G3FXB	—	K8CV/KH6	ZY5AKW
15	—	JA8RWU	IK2EGL	AL7HC	KX6BU	PY5ZBA
10	—	JA9RPU	CU3AA	VP2ERA	KH2F	ZY5FR
QRP	—	JA7RHJ	YU2TY	NP4Z	—	CX8DT
Multioperator						
Single TX	OH5BA/CT3	UZ0CWA	F5IN	ZF2KE	—	PJ9J
Two TX	—	JA1YXP	—	—	—	—
Unlimited	—	JE2YRD	I3FIY	—	—	—

Continental Winners—Phone

Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All Band	J52US	JH7DNO	GW4BLE	VP2MBA	KH6XX	PJ2FR
160	—	—	CT1AOZ	4U1UN	—	YV2IF
80	—	JH4UYB	I5MXK	TI2LTA	AH6AZ	4M3B
40	—	JA2BAY	I4VEQ	XE2NQ	—	HC1PF
20	TR8SA	JH1NBN	I1ZEU	KL7ISO	DU1NH	HC1HC
15	CN8FC	JH1EDB	GU0/NN50	HK1LDG/HK0	AH6GQ	PT9ZZ
10	—	JH1LBR	DJ1ZU	PJ7K2KTT	—	YU6PM
QRP	—	JH7LRS	FD1BEG	TG9GI	—	—
Multioperator						
Single TX	EA9AM	JE2YRD	F6BEE	VP2MU	KH6WO	PJ9J
Two TX	—	JA1YWX	LZ1KDP	KP4BZ	—	—
Unlimited	—	JA7YAA	I3MAU	KL7RA	—	—

out—it was time for bed! It was a nice contest, as usual; I wish I had more time to operate (N2KA). I enjoyed the contest. I didn't call CQ at all. All my contacts were made by answering foreign CQs (W4JFL). I saw very little activity from the Pacific! Were they all fishing? (WD4JNS). I had fun! (W5FO). It was great fun! (K1EQA). I had a great time in the contest. If DX ops would send their calls more often, they wouldn't get so many dupes (W6JTI). I found it necessary to take more time out than I would have wished, because my wife is ill. The bands were in fair shape. I had the usual noise levels, which inhibited the lower bands somewhat. No DX heard on 160 meters at all, although listened several times. It's getting tougher each year—I'm now pushing 78! (W6BYH). Too bad points are not

given for stations called! (WB7TSS). Please enter me in the "CPAs who are stupid enough to try to operate a contest in the middle of tax return preparation season and who can only get away from work long enough to operate for 3 hours during the entire contest" category (KQ7I). Great fun, even though winds at 70-mi/h-plus took down receiving antennas. I started with 4 Beverages and ended up with none. Wait until next year! (WC7S). It was a great contest and lots of fun with 50 watts mobile, but Brrrr with temperatures in the teens (K9RN). This was my first International DX Contest (WA9TZE). With five watts out, that 25-dB loss sure makes a difference! (W0IZ). Now that I can copy 30 WPM, this contest is getting fun! (KD0EE). The prefix I used (VX3 is a special prefix for the



Members of the Hill Top Ham Club, JE2YRD, put forth two multioperator winning efforts: 3rd-place world multioperator unlimited on phone and continental winner for multi-single on CW.

W/VE Low Power Top Ten (<150 W)

CW	Phone	Score
VO1MP	931,500	563,832
W2TZ	703,416	477,945
K0EJ	579,084	462,231
N5AW	531,300	354,978
KG1D	467,313	353,700
AD1C	440,568	263,004
W6JTI	391,776	218,241
KA2AJT	359,085	192,717
K4MF	325,752	183,027
K2SIG	301,713	177,642
W7YAC	300,144	172,200

W/VE QRP Top Ten

CW	Phone	Score
W8VSK	226,548	135,000
N8II	161,898	117,594
N14Q	160,920	74,787
WB2ENW	83,304	69,084
W0IZ	64,575	56,244
KW6Q	57,057	52,320
K7SS	44,460	41,664
KH6CP/1	42,768	29,223
AA2U	38,766	28,728
WU4G	27,813	24,375

XV Winter Olympic Games) caused some confusion. Thanks to all who participated and made it a most enjoyable contest (VE3MVP).

W/VE Phone

Conditions really seemed to improve on Saturday afternoon, after all the ice melted off the antennas! (K1CC). Friday's ice storm brought down my 75-meter phased array, limiting my 75 activity to a hastily strung long wire! (KC1BG). Five hours sleep sure helps when you're almost at the big 4-0! (K1UO). Thanks for the fun. It was a real learning experience (KC1EO). This is my first contest! I thoroughly enjoyed it, and look forward to more! I did learn something. Thanks (KE2DF). Many US and DX stations on phone could use a little brush-up on good operating procedures and simple courtesy (WB2AMU). Those stations not identifying by the 4th or 5th QSO were bypassed. I do believe IDing after every QSO may be an overkill. However, every third contact or so seems to be a good balance. I also believe that DX stations should save the unconventional prefixes for the WPX contests (KT2D). Was expecting a baby any moment, so only went single band. Will be back next year as a multi-single. By the way, had a baby girl the next weekend! (WB2ULL). The best catch was J52US on 3 bands! (KA3B). This was my first single-op effort in 5 years and had lots of fun. Also, it was the first time I used a computer duping program. I'll never do it any other way again! (K3OO). I just have to get an outdoor antenna! (WB3KTX). I didn't set the band on fire, but I worked every station I heard (WB3CDX). TS-520 and a 10-year-old vertical make for rough contest conditions, but I still had fun! (N3CGK). This was the first contest that I ever entered. I had a ball and am looking forward to next year's contest (KA4NXP). This is my first ARRL International DX Contest. I picked up a lot of new countries. It was quite a difference from my old QTH—Colorado! (KK4RV). This was my first contest of 1988 and was great! I know 1989 will be fine! (N4PMQ). It was a good contest! (W5FO). This was my first contest entry on 20—fantastic! I am looking forward to next year and even better results (N5IMO). I made more contacts than in any other contest (W6S1K). There is nothing like computers to make things more fun! (N61C). Ten meters not being operational on my 735 really hurt! (W8AKS/6). It was a great contest. It is always fun to break a few pileups with /mobile suffix. Thanks to all my JA friends for listening (N6NKN). I'm real happy to have worked 15 new countries (KB6RXP). I wish I could have back those few hours on Saturday morning when Europe was hot on both 15 and 20. I was trying to work them QRP with my 40-meter sloper instead of a beam. How foolish! It was an interesting contest anyway (W6YVK). I heard 9Q5NW on 160, but there was no way that I would even attempt to crack the East-Coast pile-up (KC7UO). East Coast contesting was never like

Top DX QRP Scores—CW

Call	Score	Call	Score
NP4Z	1,480,290	CX8DT	37,587
YU2TY	116,352	IS0LYN	28,728
JA7RHJ	81,672	JR1IOS	27,720
G4FDC	72,828	JH7AJD/1	20,433
I0KHP	54,747	PA0ADT	18,354

Top DX QRP Scores—Phone

Call	Score	Call	Score
TG9GI	1,169,280	OK1DKS	10,836
JH7LRS	30,438	YU1LM	9,996
FD1BEG	29,040	4X6IF	7,752
JA2JSF	27,636	JA0BMS/1	4,674
I0KHP	20,748	OZ3PE	3,300

this: Sixty JAs, KH2 and a KH3 off a CATV coax dipole held together with electrical tape and copper crimp-ons with 60 watts output from your QTH-of-the-month—my bathroom! (NG1J/7). The antenna was stuck at 60 degrees on Africa or East Coast for the entire contest. Murphy's Law strikes again! (WB7CLU). The contest gets better every year as propagation starts to improve. It is, however, still hard work when not using a linear. Working barefoot this year made it more of a contest to find multipliers than just running them (WB8WZT). It was lots of fun. I can't wait until next year (WB3KKX). Murphy strikes! One of the worst ice storms in the Ohio area in a long time prevented me from being able to load up the towers! (WA8AGH). A half-inch of ice was caked on my antennas Friday and Saturday. I'll be seeing you next year (KN9C). Operating on line with a computer logger/duper program sure was nice (K9QXY). My entry won't win any "prize," but it was fun chasing multipliers on a single band (K0ZFL). This was my first contest ever. The conditions on 10 and 15 were impressive (KA0ZEP). It was a great contest on Saturday, but Sunday was a total loss. There is always next year! (VE1BDK). This year's contest was a complete success. I hope next year I'll even or better my score! (VE3TJL). My score was not much due to very limited time that I could participate, but at least I gave out the multiplier to some people. It sure is nice to be a separate multiplier from VE8 (VY1CW).

DX CW

I was very pleased with my first effort from Morocco, especially with the 80- and 40-meter results, using a Butternut vertical (CN8FC). The pile-ups were terrific! I managed quite well with a 500-Hz filter and operated split as often as possible. Every station I heard was worked. I only shut down after complete silence on frequency and complete exhaustion (9J2AL). I only had power until 0700Z Sunday. The loss of 18 hours made a high score difficult (9Q5NW). I tried to get WAS, but

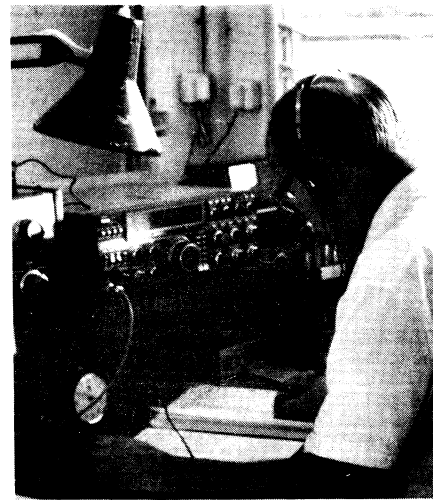
didn't hear many US stations (JA4ATV). Many of the big-gun stations have good ears. They picked me out easily (JH6NBW). I had a broken rotorator, a broken linear amplifier and a broken keyer! Sigh (JM1CAX). I was very glad to enter this contest for the first time! (JA6SHL). The conditions weren't so hot, but I enjoyed the contest very much (JA2FJP). Twenty meters was unbelievably good on Sunday evening. The XYL finally gave up trying to get me down for dinner (C31LHJ). It was an excellent contest! I hope to be in next year's too (DL9LAI). I worked all my multipliers on Saturday. There were very nice conditions on 15 meters (DL4AAE). It was a nice contest (EA7AAW). This is my first ARRL CW Contest and I'm all ready for next year's! (EA4EFK). This was my first contest and I really enjoyed it! (E14DQ). The 40-meter band was fantastic! (HA5PP/1). The conditions were very good on 80 meters. I never heard a station on 10 meters (HB9DDZ). It was nice to be able to work the ARRL International DX Contest seriously for the first time! (OH6YF). I worked all I could hear. Next year I will have a bigger antenna or work a different band! (OH3WD). Last year, I won with 20 QSOs. This year I will win again, but with many more QSOs (PA3EOB). Thanks for a very attractive contest, but where were the South Dakota brass pounders? (PA3AMA). I'm still missing 7 states for WAS (SM0OFW). There was no propagation on 10 meters! (SP2FAP). Two days of hunting produced only one QSO on 160 meters! (RA3DX). Thanks for the nice contest and good luck to all the VE and US hams (UA6LTI). It was the first contest with my new QRP CW transceiver (UA3DPX). The conditions were nice on 15 meters, but the QRM was very hard to copy through! (RW3AH). Thanks for the nice contest (UB5FBV). Thanks for the contest (UO5OBD). Many thanks for the fine CW contest (YN3EO). These contests are great, but the paperwork is a real drag (W2GD).

DX Phone

This is our first contest experience. Our score wasn't



Mark, NT6G, uses the help of a spotting net to rack-up 37k as a multi-single for the Northern California DX Club.



Olli, OH0XX, handles the pile-ups at FY5YE to make 6388 QSOs and almost 6 million points finishing 3rd-place world.

Table listing call signs and frequencies for various states including North Carolina, Northern Florida, South Carolina, Southern Florida, Tennessee, Virginia, Arkansas, Louisiana, Mississippi, New Mexico, North Texas, Delaware, Eastern Pennsylvania, Maryland-DC, Western Pennsylvania, Georgia, Alabama, Kentucky, and West Virginia.

Table listing call signs and frequencies for Delaware, Eastern Pennsylvania, and Eastern Pennsylvania.

Table listing call signs and frequencies for Eastern Pennsylvania.

Table listing call signs and frequencies for Eastern Pennsylvania.

Table listing call signs and frequencies for Maryland-DC.

Table listing call signs and frequencies for Maryland-DC.

Table listing call signs and frequencies for Western Pennsylvania.

Table listing call signs and frequencies for Alabama.

Table listing call signs and frequencies for Georgia.

Table listing call signs and frequencies for Kentucky.

Table listing call signs and frequencies for Kentucky.

Table listing call signs and frequencies for North Carolina.

Table listing call signs and frequencies for Northern Florida.

Table listing call signs and frequencies for South Carolina.

Table listing call signs and frequencies for Southern Florida.

Table listing call signs and frequencies for Tennessee.

Table listing call signs and frequencies for Virginia.

Table listing call signs and frequencies for Arkansas.

Table listing call signs and frequencies for Louisiana.

Table listing call signs and frequencies for Mississippi.

Table listing call signs and frequencies for New Mexico.

Table listing call signs and frequencies for North Texas.

Table listing call signs and frequencies for Oklahoma.

Table listing call signs and frequencies for Oklahoma.

Table listing call signs and frequencies for South Texas.

Table listing call signs and frequencies for South Texas.

Table listing call signs and frequencies for West Texas.

Table listing call signs and frequencies for East Bay.

Table listing call signs and frequencies for Los Angeles.

Table listing call signs and frequencies for Los Angeles.

Table listing call signs and frequencies for Orange.

Table listing call signs and frequencies for Santa Barbara.

Table listing call signs and frequencies for Santa Clara Valley.

Table listing call signs and frequencies for Santa Clara Valley.

Table listing call signs and frequencies for Santa Clara Valley.

Table listing call signs and frequencies for San Francisco.

Table listing call signs and frequencies for San Francisco.

Table listing call signs and frequencies for San Joaquin.

Table listing call signs and frequencies for Sacramento Valley.

Table listing call signs and frequencies for Sacramento Valley.

Table listing call signs and frequencies for Arizona.

Table listing call signs and frequencies for Arizona.

Table listing call signs and frequencies for Idaho.

Table listing call signs and frequencies for Montana.

Table listing call signs and frequencies for Nevada.

Table listing call signs and frequencies for Oregon.

Table listing call signs and frequencies for Utah.

Table listing call signs and frequencies for Washington.

Table listing call signs and frequencies for Washington.

Table listing call signs and frequencies for Wyoming.

Table listing call signs and frequencies for Michigan.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for Ohio.

Table listing call signs and frequencies for various states including Maine, New Hampshire, Rhode Island, Vermont, Western Massachusetts, Eastern New York, NYC-Long Island, Northern New Jersey, Southern New Jersey, Delaware, Maryland-DC, and Western Pennsylvania.

Table listing call signs and frequencies for various states including Delaware, Maryland-DC, and Western Pennsylvania.

Table listing call signs and frequencies for various states including Alabama, Georgia, Kentucky, North Carolina, Northern Florida, South Carolina, Southern Florida, Tennessee, Virginia, and West Texas.

Table listing call signs and frequencies for various states including West Texas, East Bay, Alaska, and New Mexico.

Table listing call signs and frequencies for various states including Orange, Santa Barbara, Santa Clara Valley, Oklahoma, South Texas, San Diego, San Francisco, San Joaquin, Sacramento Valley, and Arizona.

Table listing various radio frequencies and call signs across multiple columns, including sections for Africa, Asia, Europe, and various island territories.

Poland		YU2TY	312-13-8A-15	Uruguay		UL8LYJ (+ops)	4,320-72-20-B	South America	
SP8DVP	56,880-237-80-B	North America		CX8CG	29,700-220-45-B-20	Europe		LU4FM (LU1s FOW,FZR,LU2s FYA,FFD,LU4FDV,LU6s FDZ,FN,LU8FDZ,LU8FFU,ops)	3,838,038-4878-257-C
SP5DYO	19,584-128-51-B	Bahamas		CX2AAL	383,382-2242-57-B-10	ED30D (EA3s BOW,BOX,CVA,DDG,EIO,ops)	436,770-1055-138-B	LU1VZ (LU1s VK,VV,LU2s VAB,VV,ops)	3,115,885-4239-245-C
SP9CZ	8,094-71-36-	N4RP/C8A	283,776-739-128-B	French Guiana		E17M (E12CNB,E13DP,E14s BZ,DQ,FZ,E15FY,E16BT,ops)	1,314,090-2355-186-C	P48X (DL7AEY,K1AXN,P43JC,ops)	5,984,720-6856-290-C
SP8NB	8,073-117-23-C	Dominican Republic		FY5YE (OH8XX,op)	5,913,756-6442-306-B	HC1PF	54,849-389-47-B-40	PJ8J (W1s BIH,WEF,ops)	7,820,475-8021-325-C
SP3BV1	780-20-13-B	H13AMF	1,067,220-1617-220-C	Ecuador		HC1HC	486,330-2795-58-C-20	YW3A (YV3s AZC,AGT,BQS,ops)	5,018,000-5225-320-C
SP9JZT	288-12-8-B-80	San Andros and Provinces		HC1OT	582,173-3463-57-C-15	HC1EA	208,890-1286-55-C-10	Two Transmitter	
SP5EMM	13,680-120-38-B-20	HK1LDG/		HC1EA	208,890-1286-55-C-10	Galapagos Islands		Asia	
SP1E0I	8,772-85-34-B-20	HK8	313,170-1896-55-B-15	HD8D (N8EK,op)	2,997,540-3985-252-B	LS9E (LU8EJP,op)	201,318-1157-58-B-20	JA1YHA (4 ops)	175,296-664-88-C
SP8RTT	4,095-85-21-B-20	Panama		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS1E (LU8DPM,op)	515,214-2981-58-C-15	JA1YWX (JM1CAX,JO1BMV,JF2IWL,J2JGUT,JH7PKJ,JR9GGH,JA6-938,ops)	872,942-1842-137-C
SP8W0	3,102-47-22-B-20	HP2XVB	2,094,406-3062-228-B	LS9E (LU8EJP,op)	201,318-1157-58-B-20	LS9E (LU8EJP,op)	201,318-1157-58-B-20	JA7YFB (JH7s XK,XMO,JO1NBV,JR7GYC,ops)	1,168,158-1818-154-C
SP3GVX	2,780-46-20-B-20	St Vincent and Dependencies		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	Europe	
SP8RQU	1,008-21-16-B-20	J87BN	41,940-233-60-B	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	LZ1KDP (LZ1JY,LZ2UV,LZ1-F-195,ops)	601,710-1284-155-C
SP8ANY	25,584-208-41-C-15	Alaska		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	North America	
SP8OJJ	14,798-137-36-B-15	NL7GP	451,356-1297-116-C	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	KP4BZ (+NP4s A,CC,Z,WP4K)	11,428,860-11372-335-C
SP9EMQ	6,525-75-29-B-15	NL7DU	85,890-409-70-C	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	South America	
SP2PMO (SP2KJC,op)	4,950-66-25-B-15	NL7HT	53,109-281-63-B	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	8D2DX (N7DD,N17Y,WB7A,W8Y0Y,WANNING,VE7RG,XE2s ABB,AFK,AFY,CRN,FEF,JL,JRV,SL,LF,SJF,SMA,SPN,UMV,WZ,ops)	8,723,310-9230-313-C
SP3JHY	2,838-43-22-B-15	NL7BI	8,439-97-29-C-80	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	XE2GDK (XE2MX,K8JYO,KB6VE,K6MS,N6CW,N6W,N7CW,K9V,ops)	6,297,360-6905-304-C
SP2EXN	1,728-36-16-B-15	NL7ISO	65,250-435-50-C-20	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	Unlimited	
SP3LPR	714-17-14-B-15	NL7KB	252-12-7-B-20	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	Asia	
Franz Josef Land		Puerto Rico		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	JA7YAA (JN1VYN,J3CNLC,JR7OMD,JE7s HFL,HLZ,QQQ,JA9CCP,JH8ORW,ops)	1,016,028-2028-167-C
UA10T	17,328-152-38-B-15	WP4QGB (N/T)	50,211-797-21-B-10	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	JA8YBA (JJ3JRK,JF8DEA,JR8GOU,JA8VDA,JH9s KIF,VSF,JA8-8148,ops)	701,790-1570-149-C
European Russian RSFSR		Greenland		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	Europe	
UZ6YWB	76,224-397-64-B	OX3KD (OZ1KPB,op)	21,460-179-40-C	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	I3MAU (+I3s FY,JSS,KVV,MWP,ON,QJZ)	2,439,840-3538-230-C
UV30F	61,908-308-67-B	St Maarten, Saba, St Eustatius		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	YZAJ (YT300,YU4s NW,RR,RW,ops)	48,741-211-77-B
UA8ADC	53,952-281-64-B	PJ5/		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	North America	
UW3QW	42,840-238-60-B	WB1ABF	190,080-660-96-B	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	KL7RA (+AL7s CQ,HC,KL7EH)	1,076,706-2268-157-C
UA4NC	6,480-72-30-B-20	PJ7/K2KTT	63,591-517-41-B-10	LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	Checklogs	
UA3DRB	33,798-262-43-B-20	Guatemala		LS1E (LU8DPM,op)	515,214-2981-58-C-15	LS9E (LU8EJP,op)	201,318-1157-58-B-20	AA4WX, AT4UH, CP1BN, CT1BOP,DF2U,DF70W,DK6US,DL4KJ,DL5J,EA1ATQ,EA2BUN,EA3FER,EA5YU,EA6VQ,EA7GBD,EA8AKQ,K3KJZ,HA8DD,HA2E0A,HA3KHC,HA4XQ,HA8KZO,HA8VK,IK8GGW,IK1LB,IK2JEX,IK7BPV,IK7JY,IS8LYN,JI1JW,K6FM,KAINXT,K9AEFX,KH6FQ,KW2J,KX7J,LA3JT,LA4TG,LA1AF,LA1GD,LA1KAZ,LA22B,N1CIX,N1CRD,NAFFF,N8HZM,N70W,OH1NOA,OH1XX,OH3HS,OH5FA,OH1DKR,OH1UO,OK2SG,OK2SDW,OK2YML,OK2ZUE,OK2ZHS,OK21PP,OK21NF,OK2ZS,OK2ZL,OK2ZON,PA8TV,PA3AAU,PA3BBP,PA3BWW,PA3DCS,PJ8B,PY1IH,PY1OL,PY2AC,PY2QX,RA1QE,RA3ATM,RA3LPY,RA3VA,RA8LLN,RA8AE,RB5GW,RT4UA,RV8UV,RZ3DC,SM8BDS,SM8CSX,SM8RSM,SM2NTU,SM4A0H,SM4APZ,SM4GL,SM4SET,SM8BWO,SM8CND,SM8CPO,SM8DF,SM8DUA,SM8GQ,SM8JP,SM8OEF,SM8OLL,SP1A0Q,SP2DKI,SP3CB,SP3CDD,SP3GVX,SP5DIR,SP8FER,SP7AWG,SP7DBI,SP7MOQ,SP7NMW,SP8HXN,SP8AGS,UA0FS,UA8H,UA8KZ,UA8QO,UA8GN,UA1ANA,UA1OL,UA3AAJ,UA3AGW,UA3DAT,UA3DRB,UA3EDP,UA3PB,UA3PHB,UA3PIU,UA3PP,UA3PPF,UA3RE,UA3TCJ,UA3ZY,UA4CO,UA4ON,UA4YJ,UA8BJJ,UA8VA,UA8YV,UA8RM,UA8SAW,UA8WZA,UB5DW,UB5FH,UB5SI,UB5JN,UB5KAF,UB5LST,UB5ZFP,UC2AGB,UC2AGD,UC2U,UK3B,UL7JCP,UM8MI,UP3B0,UIQ1GWY,UG2GLQ,UR2FMC,UV3DN,UV3MW,UV3HY,UV9CP,UV5GQ,UV3BOW,UV3XU,UI1AWT,UI21TB,UZ3DYF,UZ3WVM,UZ4WVG,UZ50WF,UZ8HXK,UZ9XOM,VE1ACK,VE3MO,VE2HAZ,VE2LVP,VE2WQE,VAHDZ,WAJTU,WA4CMS,WA4F,WV5K,XE2TCQ,Y21IM,Y21XH,Y21ZM,Y22KM,Y22PF,Y22YQ,Y23CM,Y23KF,Y23UL,Y24GF,Y25BL,Y25DF,Y25MG,Y25VD,Y27GL,Y31EM,Y35ZK,Y38VM,Y43QF,Y43RU,Y43VI,Y43VL,Y46ZF,Y49MH,Y55PG,Y55YF,Y55ZT,Y65KN,Y65LN,Y68ZF,Y75YL,YC8RFF,YO2ASJ,YO3QFF,ZC4DS,ZS8HO	