

# Results: 1976 ARRL International DX Competition

Here's our cure for the wintertime blues.

By Jim Cain,\* WA1STN

Ordinary mortals who have little reprieve from the dastardly month of February must certainly feel lucky to escape with their lives from the shortest calendar month which always seems like 280 days instead of 28. A lucky few radio amateurs don't fare so badly, though. They have the ARRL International DX Competition.

Friday, the day before the first weekend of February, a government worker near Washington, D.C., takes "annual" leave at noon and heads for home in suburban Maryland, after a stop at the local hardware store. The snow has stopped, but ice accumulated in the past week sticks to trees and power lines like solder applied to a hot wire. It's the kind of cold where fingers pressed to bare metal stick, where a breath taken through the nose freezes inside. Gloves worn to protect from the bite of 10 degrees above zero prevent the wearer from performing any task more delicate than turning a doorknob. With all the odds against him, fortified by a cup of strong coffee, our friend is atop his 130' tower; disassembling his prop-pitch rotor, cutting, soldering, taping, hoping.

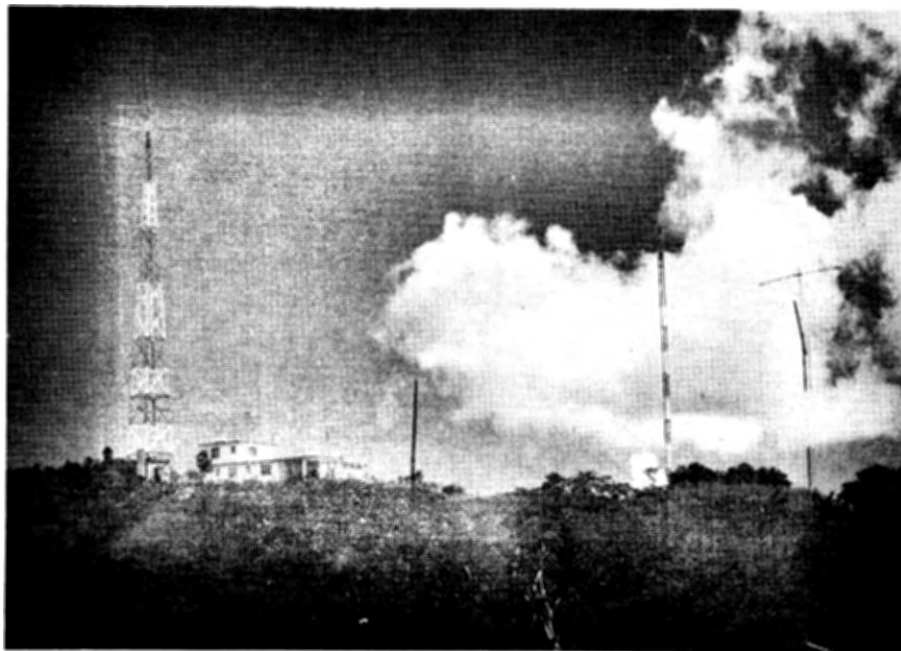
Chicago had the storm a week earlier, then sent it along to Maryland. The ice is gone and most antennas are still standing, in one piece. A school-teacher skips his last period of the day, a study hall, and stops on his way home at Barney's Rent-All, for a previously reserved coffee maker; 50 cups per batch, guaranteed quality. Together with the five pounds of beans from the last supermarket run, the system should provide for the needs of twelve sleepy, grown men and two wives for a period of forty-eight hours. Just a glance up-

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ward before he hurries in the door assures the math teacher that all of last summer's hot work wasn't in vain; every boom is level, every element straight, guy wires tight, and only a couple of ground radials unrepaired after the lawn mower chewed them up and spit them out in the last mow of autumn.

Noon in Maryland is 9 A.M. in Washington state. It's raining, naturally. One graduate student's mind is not on his first class of the day, but rather on the last, and how he can avoid it. Only three weeks into the winter term and at probably the most propitious time for mysteriously missing a session, our

college person returns to his apartment, packs headphones and a fresh supply of contest log sheets, makes a cardboard sign reading "College Student to Tacoma" and heads for the highway. He hasn't seen the station he will operate in the DX 'Test since last November, hasn't operated on the ham bands since Christmas, but he knows the station as if he had built it himself. Four straight weekends on top of three towers (not all at once!) will do that. The only questions in his mind are how much antenna-repair work will be necessary between noon and contest time and how much will that antenna work sub-



A down-the-hill view of the antennas responsible in part for the top DX phone score from KP4AST. Left to right: Two-element wire beam on 160 (off the big 160' tower), rotary two elements on 80, seven on 15, five on 10, five on 20, and three on 40.



K2JOC is shown here running VP2MOC, one of many popular DXpeditions; this one on cw.

tract from the margin of endurance he has spent the past month building up.

Darkness has already fallen over Lisichansk, in the Ukraine. Members of the club station of the Coal Mines have taken their evening meals and assembled at UK5MAF, located in one of the technical school's engineering buildings. A heated discussion surrounds information read aloud from a dog-eared *ARRL Antenna Book* by one of the more fluent English-speaking club members. Will a director added to the 40-meter beam be worth the effort in a few hours? Would the time be better spent raising the 3.5-MHz antenna another 5 meters? What about the new solid-state keyer that the club's transmitter, running the maximum allowed power of 200 watts, seems to affect on the lower frequency bands? There aren't enough members present to accomplish all three tasks, so committees are formed to fix the keyer and raise the 80-meter dipole. The beam can be adjusted during the day tomorrow, if necessary.

Lloyd and Iris Colvin, W6s KG and DOD, have the ultimate solution for the February doldrums. They are in the Fiji Islands, approximately midway through a Pacific jaunt which will eventually last almost six months. Leading a life of leisure, they aren't even out of bed yet, while our acquaintance in Maryland desperately fights the cold and ice. They've already worked several thousand amateurs from the Fijis and the purpose of their trip is not particularly contesting. By the time March is over, though, they will have entered all four weekends of the DX Competition, on both phone and cw from the Fijis and from Nauru, signing 3D2KG and C21NI. Right now it's just too hot outside to get particularly excited about any last-minute changes in their DXpedition station.

At home in Oregon, Bill Rindone, WB7ABK, is talking to his travel agent, making plans to begin a worldwide tour in a few weeks. Bill is more interested in being DX than working it, at the moment. His trip will coincide with the last

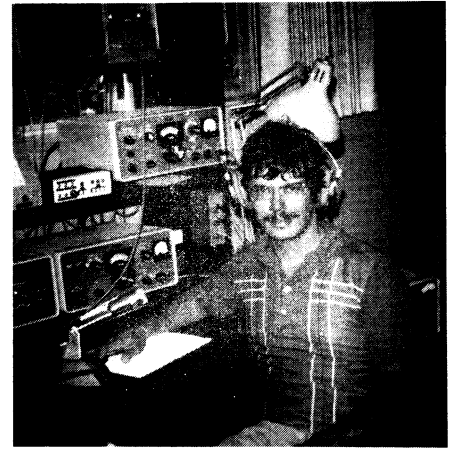
weekend of the ARRL Test, in March, and he will make almost a thousand cw contacts from Tonga Island, signing A35NN. It will still be cold and snowing in Connecticut when Bill's logs arrive late March, and the note attached to them written on Dateline Hotel-Tonga stationery, complete with palm trees, will be little encouragement to the log checkers, whose fingers are still numb an hour after coming in from the cold.

At four P.M. in Maryland the sun has already disappeared and the temperature is dropping. Fortunately, the contest is on phone this weekend, since our intrepid antenna fixer's keying hand will be uselessly frozen for many hours. The thermometers on Dutch Saint Maarten read 87 degrees, in stark contrast to the frigid USA, and a crew of Northeastern U.S. amateurs, led by Eastern Airlines pilot W1YE, prepare to assault the ham bands for 48 hours signing PJ8CO. Their several hundred pounds of radios and antennas having made it along with them and at the same time is a sure sign of success to come, a prophecy borne out by their final weekend tally of 4,656 contacts with the States and Canada. No frozen fingers in this group, but lots of sweat as they set up rigs and antennas for a multi-transmitter effort. Their primary goal is the phone contest, but they will stay two weeks and "try some cw," in their words. Try it they will, on the next-to-the-last weekend of February, to the tune of 2909 contacts on code, but first there is some talking (and beer drinking) to be done. February can be a glorious month.

It's summertime at Palmer Base, Antarctica, and personnel there can actually venture outside for minutes at a time without being blown away by fierce winds and blinding snow. Tom Frenaye, WB6KIL, is chief operator at KC4AAC, long the only source of communication back home for the few hundred men stationed at the base. Tom



Tom, WB6KIL, in cozy comfort at KC4AAC.



Here's Chip, K7VPF, shown at station of W7SFA. Not much introduction needed for anyone who ever works Sweepstakes or the DX Test; also a famous QST author (watch November issue).

has decided to take some time out from the phone patching and enter the ARRL contest, but isn't sure if it will be worth it. The last boat out is due to leave in the middle of the activity (late February) and what good is entering if only half the logs can be transmitted to Newington? Once the winter begins it will be six lonely months before another ship takes mail out and, more importantly, brings mail in. Tom has a good station, though, and decides he will solve the mail problem somehow. Through four weekends of the contest thousands of contesters are first amazed and then highly pleased at the level of operating shown by the unknown ham at KC4AAC. A change in schedule results in the last ship leaving the frozen continent the very morning after the last contest weekend, and Newington becomes the proud possessor of a complete set of contest logs from KC4AAC. Mail service to Tom will begin again just in time for him to receive this QST, along with his certificates.

Ships arrive at the Caribbean island of Montserrat every day, and one of them early in February contains WA8SEV and WB9MEV, along with some radios. Neither has much contest experience, but February seemed like a good time to head south. VP2M has been a particularly attractive spot for radio work lately, especially for the ARRL Competition with tailor-made propagation to the States. John and Irene intend to learn about contesting and make some statesiders happy. At the end of 48 hours they have produced over 4000 contacts, and we didn't hear a single complaint about their operating. Some old-timers should be so successful!

VP2MEV has company in the sunny Caribbean . . . K2BPP is on Anguilla; F6BBJ vacations and operates from Guadeloupe; W0OIR and W0OXN travel



The top club's top cw man: Frankford's W2GXG, also Hudson Division leader.

to Barbados; three Floridians operate from the Cayman Islands; W7APN, W8LKW and K6OJ are all in the Bahamas at one time or another during the four weekends. W1BIH makes his usual two-weekend stop at his home on beautiful Curacao, W0NAR and WA0ONK spend a weekend hamming from Jamaica, and W1GNC and WB2CHO arrange a last-minute trip to Bermuda to make almost 3,000 contacts as W1GNC/VP9.

Crowds are beginning to gather at various amateur installations in Maryland, in California, in New York, Indiana, Virginia, Florida, Michigan. At two hours until blastoff there is so much left to be done at a multi-transmitter operation. Those who have been through it before already have some of the problems solved, but improvements since last year always bring with them brand-new problems. Club officers are beginning to call members to remind them of the activity soon to start, excuses not allowed. At fourteen minutes past the hour, at 2214 and 2314, one can almost feel the receivers tuned to WWV for the latest propagation forecasts; one has to phone *CQ* magazine's Dial-A-Prop a half dozen times before he gets anything but a "busy" signal. Japanese signals are already peaking on 15 meters in California, a bad sign for later. The Europeans have faded from 14 MHz for most of the States, and it looks like another contest to start on 40 with occasional quick scans across 20 for PY and LU stations (the Africans will surprise us in the opening hours of the contest, though).

With two hours to go, serious contesters have already eaten their last supper for the weekend. . . they know that digestion processes will drain their brains of blood badly needed for the hectic first hours (where the contest is sometimes decided). Smart casual par-

ticipants aren't even thinking much about the DX 'Test at this point, because they know those first few hours can be extremely frustrating if you aren't a Big Gun. Old-timers will tell you that if everything is prepared, nothing needs a last minute fix, and all is well; the last two hours or so before a contest starts can seem like an eternity. Once 0000 rolls around it's go, go, go for 48 hours, and sitting on one's hands waiting for that can be murder. Maybe the guy with the busted rotor who spends his last hours working is lucky, after all!

Last February rotors were fixed, 50 gallons of coffee made, rides to Tacoma found, wives and husbands placated, log sheets received in time, planes caught, gear cleared through customs, licenses obtained, sleep caught up on, and even some sunspots cajoled onto the surface of our benevolent star. The DX Competition went on in grand style. Blessed by solar activity reminiscent of perhaps 1973, if not 1970, 15 meters opened nicely for all parts of the country on both modes, and it worked the second cw weekend into Europe for just about all areas east of W7. Ten meters was good for 40 multipliers on phone, but almost totally useless on cw. Things have indeed become depressing when we forget about ten and jump for joy merely because 15 opens up!

#### USA Notes

On cw, W3LPL began his quest for a second time around as top single operator, a feat last attained by K1DIR in '67 and '70. Frank's first hour, 61 contacts on 40, is indicative of his entire performance. Last year's top cw man, K7VPF, had to settle for second this time from his home-away-from-home, W7RM. Competition was so stiff for the top ten listing it took 1.3 megapoints just to make it; seven call areas are represented in that listing of ten iron-

#### One Weekend DXpeditions (All Are Certificate Winners)

##### CW

A2CNN	(SM4CNN)
A35NN	(WB7ABK)
C21NI	(W6DOD,W6KG)
K6OJ/C6A	
W7APN/C6A	
W8LKW/C6A	
HB0AN	(HB9AHA,HB9AIU)
DK6NJ/HB0	(DK6NJ,DJ8MH,DJ8JY)
PJ8CO	(W1YE,K1LPA,K1DQV, WA2AUC)
PJ9JT	(W1BIH)
PZ1DR	(W3GXF)
VP2DE	(F6BBJ,FG7AN)
VP2G	(W5MYA)
VP2MOC	(K2JOC)
ZB2DM	(K7CBZ)
ZF1AL	K4SHB,WA4SVH,WB4TAF)
ZS6BNF	(SM4CNN)
3D2KG	(W6DOD,W6KG)
4U1ITU	(K4GTS)
8P6HN	(W00IR,W00XN)
9Y4AC	(VE7BZC)

##### PHONE

C21NI	(W6DOD,W6KG)
FG0BKZ	(F6BBJ)
KG6AAY	(WA3HRV)
PJ8CO	(W1YE,K1DQV,K1LPA, WA2AUC)
PJ9JT	(W1BIH)
VP2EEE	(K2BPP)
VP2MEV	(WA8SEV,WB9IWN)
W1GNC/VP9	(W1GNC,WB2CHO)
3D2KG	(W6DOD,W6KG)
W0NAR/6Y5	(W0NAR,WA0ONK)
9Y4AC	(VE7BZC)

men, from as far north as Connecticut and Washington to as far south as Texas and Florida, from East to West Coast. Even a middleman in the form of K4GSU, Doctor of Radio.

Single-operator phone was a struggle between the coasts, with guest operator WB6OLD at W6HX nosing out WA2CLQ at W1ZM. It was a battle by the books, with HX whipping all the competition on total contacts and ZM

#### Division Leaders

##### PHONE

##### SINGLE OP

ALL	LOW	HIGH	
W3LPL	W3GZQ	WA2BYJ	Atlantic
K9HMB	K9UWA	WB9HAD	Central
W2GUH/0	—	WA0ONL	Dakota
K5KLA	WA5RTG	W4EFQ	Delta
WA8YWX	WA8ZDF	W8NWO/8	Great Lakes
W2GXD	W2HHC	WB2SZS	Hudson
WA0PAO	W0PRY	WB0HOG	Midwest
W1ZM	W1FXD	K1RQE	New England
W7SFA	K7RSC	WB7ABK	Northwestern
K6CQF	K6QHC	W6PXG	Pacific
K4VX	W4QCW	W4WSF	Roanoke
WA0CVS	—	WA2WMT/0	Rocky Mt.
WB4UJT	W4YWX	W4ZTW	Southeastern
W6HX	WA0OOL/6	WB6PXP	Southwestern
K5PFL	K5KSI	K5BZU	West Gulf
VE2AYU	VE3ENM	VE1ANH	Canadian

##### MULTI-OP

M-S	M-M
AD3GJD	W3AU
—	WA9NPM
WB0ANT	—
W5PBZ	—
W8CNL	K8IDE
K2BMI	AC2PV
W0PCO	—
WA1KID	W1MX
WA7ZLC	—
W6OKK	W6PAA
W4MYA	W4BVV
—	—
AA4UFW	AA4LZR
K6SVL	W6ONV
—	WB5OOE
VE7BGK	—

**CW Multiplier Leaders**

MINIMUMS	5	40	60	80	60	10
BAND	160	80	40	20	15	10
<b>ALL BAND - CW</b>						
K1DPB	33	45	75	60	11	
W1DAL	47	80	81	72	1	
W1HFB	56	73	75	72	14	
W1JFL	5	13	19	61	50	5
AC1PL	3	51	56	70	65	1
W1YN	34	65	64	48	7	
WA1ABV	40	49	71	29	1	
WA1ABW	47	65	74	62	7	
WA1SSH	41	60	65	54	9	
WA1STN	42	62	65	62	9	
K2BMI	49	69	83	63	14	
K2FL	51	52	72	65	10	
K2LE	48	64	86	55	11	
W2AZO	34	47	64	52	10	
W2GGE	43	69	72	42	2	
W2GXD	1	53	78	80	68	11
W2HBT	40	53	50	80		
W2HUG	5	16	16	38	17	
W2REH	44	63	79	60	10	
WA2YHK	39	60	66	59	7	
WB2FIT	44	62	76	55	10	
W3BGN	4	49	72	87	64	12
W3EYF	25	60	72	46	2	
AC3GID	15	17	69	63	3	
W3GRF	3	43	66	84	69	8
W3KFO	7	34	83	55	2	
W3KT	12	41	77	51	11	
W3LPL	62	94	91	83	17	
W3NZ	45	47	50	40	4	
W3VT	24	73	77	54	1	
WA3SZI	28	43	89	39		
AC9SZR/3	6	56	63	79	48	1
K4GSU	10	47	77	83	77	10
K4HWW	32	36	55	53	13	
K4VX	3	44	76	81	69	8
K4YFQ	8	55	80	75	79	11
AD4TIG	38	65	82	66	15	
W4BV	35	62	69	58	2	
W4KXV	36	45	62	54	10	
W4YZC	7	7	89			
W8FAW/4	43	69	78	75	13	
WA4DUS	6	19	30	46	29	5
WA4TLB	5	41	60	78	55	5
K5PFL	5	49	71	69	66	12
W5JC	8	23	41	39	10	
W5RTX	32	54	74	57	10	
W5WZQ	12	53	84	84	75	10
WA5VDH	40	52	70	36	9	

MINIMUMS	5	40	60	80	60	10
BAND	160	80	40	20	15	10
K6CQF	24	62	70	41	15	
K6DC	14	64	68	18	1	
W6ABT	13	15	35	24	10	
W6MUR	21	71	70	31		
W6NKR	24	64	54	21		
W6OUN	2	42	69	76	45	13
W6PAA	1	32	68	72	39	4
W6RTT	31	53	83	42	7	
W6WB	29	34	48	38	15	
WB6KKBK	1	22	62	67	34	8
W7IR	6	35	74	83	50	14
W7RM	8	34	70	82	42	1
K8CXM	14	25	81	5		
W8RSW	13	40	84	58		
W8VSK	24	45	80	49	11	
AA8NYB	36	45	81	33	1	
K9BGL	35	64	68	55	10	
K9UIY	19	29	83	12		
AD9UKM	17	47	86	41	3	
W9OHH	27	66	82	53	2	
AC9PNE	8			22	13	
W0PCO	35	64	78	57	3	
W2GUH/0	35	52	81	58	3	
<b>MULTI-SINGLE</b>						
K1VTM	47	79	80	53	6	
WA1KID	8	53	73	84	63	8
WA1LNQ	51	59	84	67	10	
WA1NKK	41	63	71	62	2	
WA1NRF/1	54	65	80	67	5	
W2YD	57	74	83	63	2	
K3GJD	7	61	72	83	66	14
W3YXM	5	17	70	63	50	7
AC4MYA	1	38	62	84	56	9
W6BIP	18	44	53	39	16	
WA6NGG	36	58	69	43	14	
K7NHV	31	68	80	46	1	
W8LT	3	41	51	68	44	10
AA9IVL	35	56	82	45	2	
<b>MULTI-MULTI</b>						
W1MX	13	71	85	84	75	9
W1ZM	9	66	87	89	91	13
K2CW/2	7	42	59	40		
W2PV	21	73	103	113	99	16
W3AU	21	82	107	113	95	22
W3BWZ	12	62	83	94	77	13
W3FA	40	67	70	75	3	
W3FRY	15	81	100	114	95	20

MINIMUMS	5	40	60	80	60	10
BAND	160	80	40	20	15	10
W3GM	20	73	97	93	88	20
W3GPE	64	93	129	74	10	
W3TV	29	61	81	83	15	
W3WJD	19	84	99	110	101	20
W4BVV	20	74	110	112	96	18
AA4LZR	45	79	67	84	17	
W5MYA	7	47	83	86	77	21
K6BCE	10	53	81	92	59	26
K6RR	10	50	75	79	49	18
W8HBK	7	49	74	76	67	2
W9CL	11	56	69	93	71	13
<b>LOW BAND</b>						
K1NOL	8	55	98			
K1RQE	15	61	74			
K1TZO			72			
W1BB/1	16					
W1OR		40				
W1SWX		44				
WA1UIK	2	55	74			
W2FR		46	35			
W2TE	7		27			
W2TO		47				
WA2UJM		48	65			
K4IEX		39	63			
W4QCW	15	8	27			
W4YWX	8	42	92			
K5JVF	6	21	18			
WA5RTG	6	38	68			
W6ITY	5	34	55			
K9DWK		23	60			
W9MEM	1	42	81			
<b>HIGH BAND</b>						
K1MGA			70	65	9	
K1OEY			65	49	10	
W1YG			76	55	11	
WA1NZT			80	75	12	
W2AO			70	60	8	
W2DXL			95	73	16	
WA3WIK			83	56	4	
AD4BAI			94	86	16	
W4WHK			78	76	10	
W4WSF			77	68	8	
W4WXZ			67	55	11	
AB4TDH			81	69	14	
W5GO			49	68	9	
AD6SDR			73	35	11	
W9KNI			91	56		

working multipliers at a level above most multi-operator stations. W3LPL, who has been known to claim to not own a microphone, "just got on to try out his antennas" and came in third. Competition toward the bottom of the Top Ten got a little scarce, as evidenced by the fact that WA1JLD put W1YK on the air just one weekend (43 hours) and came in tenth. Middleman on phone was K9HMB who scoffed at the old tale that the "Midwest can't win" and proceeded to come in eighth. Also, note FB phone scores from WA7WXY and W2GUH/0, both recently transplanted from the more multiplier-productive East Coast. Maybe they just weren't smart enough to realize that good scores can't be made from Minnesota or Idaho, so they went ahead and made them.

Multi-single proved an interesting category for many this year, especially as more and more active clubs institute repeaters for multiplier hints and kinks.

A few multi-single entrants find themselves listed in the multi-multi category, having been judged by the Headquarters



This is Charlie, W2HMH, Frankford phone winner and fourth-highest single-operator score.

Awards Committee to be closer to that grouping. The dividing line is a fine one which entrants must draw for themselves and then stick to, and the Committee wishes to avoid at all costs writing restrictive rules concerning multi-single. The new rule this year requiring single operators and multi-singles to submit logs in order by time (rather than by band) enables the Committee to more effectively police these categories. Keep in mind that the logging requirement does not in any way restrict one's pattern of operating (band change as often as you like and as your station setup will permit).

Multi-single seems to be more of an East Coast activity, probably because additional help, be it people or spotting net or both, is more important for chasing multipliers than for "running" stations. That's our theory, anyhow. Notice how many of the multi-single scores would fit quite nicely into the

Phone Multiplier Leaders

MINIMUMS	5	50	50	80	60	30
BAND	160	75	40	20	15	10

ALL BAND-PHONE

W1HFB	70	49	100	70	26
W1YK	38	30	91	55	18
W1YN	33	37	73	65	27
W1ZM	78	50	115	64	37
WA1ABW	47	41	87	71	30
WA1UAD	2	32	27	74	62
W5UDK/1	2	29	32	86	60
K2FL	44	37	79	66	33
W2GXD	2	37	39	99	66
W2HBT	41	33	48	91	
W2HMH	62	44	102	79	34
K3EF	2	38	27	82	49
W3GID	38	1	67	61	20
W3KFO	3	23	84	60	20
W3LPL	69	59	102	75	37
W3USS	8	43	36	67	50
W3VT	37	33	73	60	29
WA3WRD	23	31	81	36	15
K4VX	3	54	40	99	60
AC4QAW	32	46	84	56	19
AC4WRY	9	52	28	46	25
WA4DUS	10	33	14	51	26
WA4TLB	5	49	30	96	54
WB4PXW	6	46	32	51	54
WB4UZT	42	52	78	61	29
K5JZY	35	40	53	65	37
K5KLA	37	31	65	71	42
K5PFL	13	56	54	73	67
K5VTA	35	34	52	60	30
K5YMY	31	38	57	63	35
W5NMA	35	49	43	55	31
W6HX	3	56	52	77	67
W7AYY	18	20	38	42	30
W7SFA	4	60	45	87	42
WA7WXY	51	42	71	50	23
K8YRV	20	44	83	41	23
WA8YWX	35	28	86	42	24

MINIMUMS	5	50	50	80	60	30
BAND	160	75	40	20	15	10

K9HMB	2	47	47	103	69	30
WA9BWY	2	34	39	88	57	30
WA0CVS	45	48	74	55	32	
W2GUH/0	46	28	82	52	31	

MULTI-SINGLE

W1CF	96					
WA1ABV	64	44	103	74	30	
WA1KID	4	56	53	120	70	32
WA1LNQ	59	33	87	59	23	
WA1NRF/1	70	42	108	63	27	
WA1STN	70	41	103	73	31	
K2BMI	68	40	80	75	24	
K2IGW	31	37	91	48	24	
W2EHB	33	30	78	61	18	
K3AVT	28	26	96	22	2	
AD3GJD	3	69	42	95	52	21
K3HZL	40	38	81	68	28	
W3GRF	49	49	101	69	19	
W3YXM	5	32	54	68	53	26
W4MYA	2	51	41	89	54	33
W5PBZ	12	3	30	43	30	
K6SVL	35	41	67	62	28	
WB6KKB	1	34	48	81	53	30
W0PCO	55	43	99	53	23	

MULTI-MULTI

W1MX	10	65	52	90	68	6
K2CW/2	9	48	47	48		
AC2PV	26	95	78	140	102	39
W3AU	27	97	80	137	112	40
W3DHM	13	76	73	123	84	37
W3FRY	17	56	68	121	83	37
W3GM	6	82	73	132	78	38
W3GPE	52	54	109	78	35	
W3TV	24	18	53	60	18	
W3WJD	22	104	79	133	102	45
AA3NGS	5	71	64	125	75	38
LU1BAR/W3	8	33	28	64	50	21

MINIMUMS	5	50	50	80	60	30
BAND	160	75	40	20	15	10

W4BVV	27	96	83	132	99	38
AA4LZR	65	52	92	97	20	
WB5OOE	8	63	62	97	90	46
W6ONV	59	51	95	67	24	
K8IDE	3	48	53	92	49	22
WA9NPM	52	38	92	51	28	

LOW BAND

W1BB/1	12					
W1FXD		43	68			
W1NJL		59	27			
W2HHC	8	54	53			
K4YFQ	14	59	53			
W4QCW	17	18	40			
W4YWX	20	76	62			
K5KSI		62	52			
W5WMU		61	57			
WA5RTG	14	67	56			
WA5UCT/5		69	38			
W6ITY	2	53	36			
WA8ZDF	11	86	69			
K9UWA	5	45	46			
VE3BBN	5	50				

HIGH BAND

K1CSJ		90	45	18		
K1RQE		96	79	34		
K1VBL		78	70			
W1DO		80	20			
W1YG		86	54	12		
WA1NKK		79	68	13		
WA2BYJ		76	62	29		
WB2VFT		81	65	11		
W4WSF		101	68	35		
WA4HPF		102	56	31		
WB6PXP		75	66	29		
WB9HAD		96	55	25		

single-operator top scores. It's that single-op category that separates the men from the boys (editorial). Note that nearly every large multi-single score went to a top contest-club aggregate.

The top four stations dominated multi-multi again this year; W2PV (whoops, AC2PV) finished first on phone again, the 20-meter total spelling the difference. Stacked beams and WB2OEU operating 20 are the reasons. W3AU had the highest multiplier of the entire contest at 494, and these days it takes near perfection to do so well. Gone are the days of 150 countries on 20 and 15 and over a hundred on 10 meters.

Cw multi-multi was led by W3WJD, with higher antennas this year on both 40 and 80; K6BCE and K6RR on cw join with W6ONV on phone to prove that multi-multi is indeed viable from other than the shores of the Atlantic. Your contest corner personnel unanimously voted the K6RR log "cleanest" in terms of content of call signs, multipliers, and general accuracy. Congrats! They would make a good Cedar Rapids receiver testimonial.



Another biggie from Puerto Rico: Mike, AJ4EAS, turned in the second-highest single-operator phone score, as well as a fine low-band cw effort.

1976 was the second trial year for the high- and low-band single-operator competitions; the Contest Advisory Committee is presently deliberating on a recommendation to either keep or do away with these specialized areas of competition. Two years ago it was thought that the sunspot drought would encourage considerable activity in the low-band competition, but that hasn't been the case. The chart below gives

some figures on the high- and low-band categories for the last two DX Competitions.

	1975	1976	DX-1976
High-band plus			
low-band cw =	180	212	326
All-band cw =	423	477	276
High-band plus			
low-band phone =	250	247	153
All-band phone =	408	432	117
Total W/VE	1261	1368	872
1976 grand total, including check logs:	2405		

The above numbers speak for themselves; about the same number of "entrants" in each category, with the top scores up in three of the four groups. Kudos to WA8ZDF for retaining his low-band phone crown and to perseverant K1NOL who rose to the low-band cw top spot this year after a third-place in 1975.

Club Competition

Philadelphia's Frankford Radio Club did it again, primarily with their multi-

**Top Ten**

**SINGLE-OPERATOR CW**

W/VE	DX
W3LPL 2,261,052	KP4EAJ 3,852,687
W7RM 1,728,441	PJ2VD 3,702,105
W5WZQ 1,646,604	KP4EKI 3,495,270
W2GXD 1,560,051	KH6IJ 2,512,488
K4YFD 1,534,764	VP2MOC 2,139,000
K4GSU 1,496,592	VP2G 2,131,974
W3BGN 1,412,640	PJ9JT 1,869,120
W6OUN 1,395,303	KV4IO 1,626,888
K4VX 1,383,363	KH6CF 1,609,089
W1HFB 1,322,400	KH6HKM 1,479,816

**SINGLE-OPERATOR PHONE**

W/VE	DX	W/VE	DX
W6HX 1,799,892	W6XZ 1,756,464	KP4AST 7,560,450	AJ4EAS 5,741,808
W1ZM 1,388,178	W3LPL 1,164,267	YV4AGP 5,195,232	KZ5BC 4,443,247
W2HMH 1,142,505	W7SFA 1,137,225	KH6IJ 4,080,384	WB9AJF/6Y5 3,791,644
W1HFB 1,066,779	K4VX 1,008,432	XE1LLS 3,713,769	KH6GQW 3,595,428
W9HMB 944,112	W2GXD 835,200	YV1AVO 3,125,538	LUBAJG 2,945,880

**Division Leaders**

**CW**

**SINGLE OP**

ALL	LOW	HIGH
W3LPL	WA2UJM	WA3WIK
K9BGL	W9MEM	W9KNI
W2GUH/0	K0IHG	W0HW
W5RTX	WA5RTG	W5TXA
K4GSU	K8UQA	WB8DTT
W2GXD	W2HHC	W2DXL
W0PCO	W0PRY	W0MUH
W1HFB	K1NOL	WA1N2T
W7RM	K7JCA	AA7JCB
W6PAA	WA0ENP/6	W6ZT
K4VX	W4BAA	W4WSF
WA0CVS	K1PKQ/7	—
K4YFO	W4YWX	AD4BA1
W6OUN	W6ITY	AD6SDR
W5WZQ	WB5OWX	W5GO
VE2AYU	XJ2AHI	VO1HH

**MULTI-OP**

M-S	M-M
K3GJD	W3WJD
AA9IVL	W9CL
WA0CPX	—
—	—
W8LT	W8HBK
W2YD	W2PV
—	—
WA1KID	W1ZM
K7NHV	—
WA6NGG	—
AC4MYA	W4BVV
—	—
AA4UFW	AA4LZR
W6UA	K6BCE
K5AKW	W5MYA
—	VE5NN

**DX Continental Champions**

**CW**

SINGLE OP	MULTI-OP
EL2T	—
JA2JW	JA9YBA
EA2IA	YU3EY
KP4EAJ	ZF1AL
KH6IJ	3D2KG
PJ2VD	—

**PHONE**

SINGLE OP	MULTI-OP
6W8FP	—
JA2JW	JA1YFL
CT4AT	E19CB
KP4AST	PJ8CO
KH6IJ	C21NI
YV4AGP	HD5EE

operator stations, and some big help from across the river in Jersey. Biggest jump up for a club this year was from tenth to fifth by the Wireless Institute of the Northeast; West Coast clubs account for half the Top Ten, four from California plus the Western Washington DX Club. First try by the Southern New England DX Association, based in Boston, landed them in eleventh place, just a smidgen out of the Top Ten.

**DX Notes**

In alphabetical order, beginning with Africa; the Dark Continent continues to be the least active in our contests, with a few bright exceptions. Statesider EL2T, with the Voice of America in Liberia, dominated the cw mode, with old reliable 5T5CJ turning in an all-band

effort. Phone is more encouraging in one respect, there's more activity, but discouraging because some multipliers which are pieces of cake on phone seem to disappear into the woodwork on cw. 6W8FP put in quite a signal on all bands and topped Africa at 2.7 million, followed by Chuck, EL2T, again with 1.8.

He who wins Japan, wins Asia, as JA2JW proved again this year, taking both phone and cw honors. Yohtarō will take home two plaques to add to the two won last year. He worked 47 states on cw, missing only North Dakota, and all 48 on phone. With UA0FGM back home in Moscow there's not much chance of anyone breaking the JA domination unless someone makes an effort from one of the Mideast

spots (4X4, JY, etc.), or possibly if a single-operator entry takes place from UK9AAN or the like.

Europeans were treated to some excellent long-path 40-meter openings to our West Coast this year on cw, partially in compensation for absolutely atrocious conditions on 40 phone. While 6W8FP blasted through on 40 phone for hours on end hardly a European could be worked, UK5MAF and their 3-element Yagi and the CT4AT quad being the big exceptions. EA2IA again cleaned the continent on cw, with I2XXG and Gs 3FXB and 4BUE all pulling in at over a million. YU3EY teamed with YU3BO for a terrific 1.8 megapoint two-man effort, putting Drake gear, TH6DXX and dipoles to work. Probably the biggest treats were DXpeditions, two to Lichtenstein and Don Reibhoff of XV5AC and XU1DX fame working cw from Gibraltar (ZB2DM).

Reibhoff stayed home in Portugal for the phone Test and walked away with the continental plaque, making 1.4 million big ones, I3MAU coming in right behind. Both use quads on 40 and high antennas on 80, showing what can be done with the right skywires; W6 and W7 calls abound in both their 75-meter logs.

North America is still the place to be for making really big scores; we've already run over the many DXpeditions to various islands. KP4AST turned in the overall top score in the February/March doings, setting a new all-time multiplier record of 318 in the process. His 160-meter phone log is truly a thing to behold, the rest notwithstanding. AJ4EAS came in second with a meager 5.7 million points, second in Puerto Rico, second in North America, second in the world. Another effort worth special mention is over 1800 contacts low-band by W4EV/VP9.

KP4EAJ nosed out last year's top cw man, PJ2VD, for overall code honors; Chet plans better antennas for 1977! Special congratulations to K2JOC, W5MYA and W1BIH, who all made the top-ten cw listings in one-weekend operations from VP2MOC, VP2G and PJ9JT.

Hawaii holds sway in Oceania, KH6IJ placing fifth on phone worldwide and fourth on cw, among a passel of other islanders. On cw, a fine effort by VK2AR put his call sign in over a thousand 40- and 80-meter logs. ZL1AFW and ZL3GG again made over a kilo of contacts from halfway around the globe from North America.

Oceania phone can be summed up by noting that Hawaii had four entrants at or over two million points, and three New Zealanders over 1500 contacts. VK4VU, working over a tougher path, managed 1300 two-ways.

South America closes out this continent-by-continent synopsis; PJ2VD already mentioned as tops on cw and second overall (worldwide) with W1BIH operating PJ9JT on the other side of Curacao for number two score. KC4AAC, much farther from the States and Canada made over 2,000 code contacts; we aren't sure if Tom will be there again next year. Phone contacts from S.A. were much easier for W/VEs to come by, with a number of big scorers being led by old pro YV4AGP, who salted another continental plaque away.

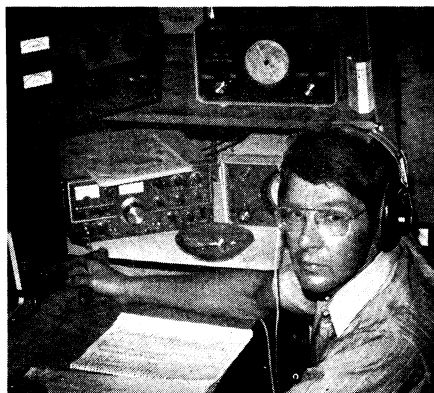
So what does it all add up to? What does it all mean? Are we finally at the rock-bottom of the solar cycle, or is there worse yet to come? Well, 1974 was perhaps the worst for our winter four-weekend activity, and '75 was a little better and we'd have to say '76 was still an improvement. Sure, there is little to be worked on 28 MHz, 15 meters is basically out of the question for JA/East Coast and Europe/West Coast, 20 meters is dead a good third of the time, and even 40 meters gets racked by the poor conditions.

However, last year WA3LRO turned in 2.3 million phone points from W3WJD, and this year W3LPL came dangerously close to K1ZND's all-time cw record, still standing from 1972. Dave is starting to sweat that one. Maybe it's all in our mental attitude; if we think conditions will be bad, they will be. If we simply build bigger antennas, hang in there, and ignore the solar flux and K-index numbers, the scores just keep creeping up and up. What may happen about 1979 or '80 boggles the mind.

### Soapbox

After my October trip to VP2A land, my slush fund said that I had to operate this test from the home QTH. — (K2IGW) I used a hand-held type microphone in the phone session. It had a coiled cord which plugged into the right-hand side of the Swan and crossed over my log as I held it in my left hand. My left forefinger was numb for several days after from pressing the talk button. — (K6OJ/C6A) Trying to work the DX Contest with indoor antenna is insane! Nevertheless, I picked up nine new countries, bringing my total up to 98 worked, all with indoor antennas. — (WA3NGL) I was surprised that many hams asked for my country. I guess that at today's prices, few can afford the latest *Callbook!* C6A is ex-VP7. — (W8LKW/C6A) It seems like there is a direct correlation between the first and third weekends in Feb. and March and tornado watches in Mississippi. — (W5RUB) I think that we need some multipliers to adjust for limited power and time. — (WA4BAX) Wonder if I

have some sort of a record — this is the fourth year that I have entered the ARRL DX Contest, and it has been with a different call sign each time. The first year was 1973 and my call was K4VMA/VP7. The next year was as VP7DF, in 1975 it was as C6ADF, and this year it's VP5DF . . . Hopefully next year I'll be in the contest again, and again with a new or rather different call sign — this time back home (enough of this island living) as K4VMA. — (K4VMA) Weekend I — Where was Japan? Weekend II — 5-minute openings to Europe don't help the score at all! — (WA0TAM) Murphy spent both weekends with me. — (W6ANN) For the first time in 25 years, I operated with a short call — man, what a difference! — (K2LE, ex-WB2CKS) The multi-multi operators with their "CQDX" machines are taking a larger and larger part of the band!! — (W4BAA) During the Phone Test XYL decided it was time to wire the "family room." Lost 12 hours on Saturday, 1st weekend. — (K7ABV) First cw weekend effort almost nil due to XYL having a baby. — (W1GMF) Fantastic second weekend conditions! Had a blast running 'em off barefoot. (Is there any other way?) — (K9UIY) Do not even try to tell me that you did not preheat the ionosphere for this contest.



Who hasn't been beaten in a pile-up by this gentleman — K4GSU? Outside is considerable antenna hardware, almost all completely done by Bill himself. Result: number six cw score nationally.

### Low Power Champs

CW	PHONE	CW	PHONE
WA1SSH	557,844	WA1SSH	276,942
WA3YQW	165,300	WB2LOF	100,188
K3JET	161,934	WA7HRE	75,492
AB2SJK	151,848	AB2BYU	71,820
AA2ZWH	148,944	WB2HZH	66,144
AC3ARK	138,726	K5TSQ	61,182
K9UIY	138,567	AA2ZWH	61,056
W1FCC/3	135,783	K5YRK	60,990
WB2FNS	130,806	W1HAF	54,162
K1LMS	130,146	W1FCC/3	53,976

### Ten Years After

Ten years of ARRL International DX Competition (total logs received): 1976 — 2405; 1975 — 1835; 1974 — 1971; 1973 — 2107; 1972 — 2470; 1971 — 2646; 1970 — 2822; 1969 — 2468; 1968 — 2225; 1967 — 2427.

### 1977 ARRL DX Competition

#### PHONE

Feb. 5-6, Mar. 5-6.

#### CW

Feb. 19-20, Mar. 19-20.

I do not remember such good conditions in a long time. I celebrated my 48th year in amateur radio by working 58 QSOs between 1107 and 1207 GMT on March 21 on 14-MHz cw. — (AC1PL) The indicator resistor inside the rotator burned out during the first phone weekend. Rather than take it down and fix it, I moved the entire shack over to a window where the beam was easily visible. It was just like Field Day! Nighttime was strictly by dead-reckoning. — (K2BMI) First weekend — Well they tell me Europe exists!! — (WB6GHH) If there were an award for politeness, my vote would have to go to PA0UKW. While I did not establish contact with him, I enjoyed listening to him as he handled the pile-up on 14.052 MHz with great tact. — (W2FTY) Great contest — for once propagation was right, so even us little people had lots of action. — (K4FOK) What a coincidence, last station worked in the contest was JA2HO. — (W2HO) During the good old days of quotas for W/VE, the well-equipped bunch would fill their quotas of common DX and then spend their time digging out the rare stuff. In that way they were not occupying every kHz. Many low-power DX stations could find a place to set up and have a bunch of us coming back to him. I think it was more fun for more people. — (W6BVM) Pray for CR9AJ QSLs. — (W1NJL) The first weekend in March was good, apparently due to unusual solar activity. I had not expected 10 meters to provide any contacts up here in Minnesota, but I was pleasantly surprised. — (W0LP) . . . the only antenna available was the 20-meter dipole up only about 20 feet — sort of an "underground antenna." — (W6BYH) One has to operate up here (Alberta) to appreciate the advantages of a more southerly latitude though. When conditions are just average or worse, it is really frustrating up here listening to the entire

Continued on page 92





<b>High Band</b> W5TXA 31,464-69-152-C-16	<b>High Band</b> W6YQQ (WB6GHH opr) 55,209-77-239-C-48 W6OK 39,285-45-291-C-30 AA60WV 24,696-49-168-C-18 AA9KX/6 15,480-60-86-C-16	W6MTJ 48,150-75-214-A-38 W6AFH 14,322-31-154-C-21 K6DSK 11,328-59-64-B-27	<b>Low Band</b> K6QHC 33,234-58-191-C-	<b>High Band</b> W6FUZ 8100-30-90-B-27 W6MMH 60-4-5-C-1	<b>ROF, WA8YLF (opr)</b> 905,850-275-1098-C-96	<b>High Band</b> WB8TT 28,386-57-166-B-24 AA8EDC 12,690-47-90-C-10 K8QWG 1080-15-24-B-4	<b>High Band</b> WB8RW 413,010-195-706-C-50 AA8NYB 373,968-196-636-C-46 WB2CQ 241,110-171-470-C-36 WB8FOS 134,475-163-275-C-5 K8CXM 129,375-125-345-C-52 W8DB 123,552-143-288-C-25 W8PBU 87,000-116-250-C-44 W8GOC 70,896-112-211-A-8 W8I 49,599-99-167-C-8 W8DWP 48,735-95-171-F-39 W8NPF 46,956-91-172-C-33 AD8HBN 34,113-83-137-C-11 WB8NJ 2175-25-29-B-12	<b>Iowa</b> W8PCO 674,739-237-949-C-74 W8FLE 103,572-137-252-C-30 K8FLY 67,071-79-283-C-22 W8MJN 24,750-66-125-C-34	<b>Low Band</b> W8PRY 14,580-54-90-A-20 W8MOQ 3915-29-45-C-4 AA8VDX 3534-31-38-C-4	<b>High Band</b> W8MWR 27,027-63-143-C-26 AA8PCH 9180-45-68-A-8 AB8IPH 4590-30-51-A-18	<b>Kansas</b> W8IUB 217,065-163-445-C-41 WA8GSG 10,350-46-75-C-8	<b>Minnesota</b> W2GUH/8 688,374-229-1002-C-68 W8YCR 169,500-125-452-C-70 W8NAR 146,304-127-384-C-4 W8NAT 96,813-93-347-C-46	<b>Low Band</b> K8IHG 336-8-74-B-	<b>High Band</b> W8HW 131,823-97-453-C-7 W8KDI 29,583-57-173-C-23 W8LP 13,923-51-91-C-20	<b>Missouri</b> W8PAO (WA8JNF opr) 221,265-165-447-C-80 AA9NVZ 142,443-119-399-C-7 W8EEZ (WB8FLM opr) 77,805-95-273-F-48 WA8FBQ 60,192-88-228-C-17 W8YEF 26,061-73-119-B-8 W8LTD 6696-36-62-C-7 AC9QY 270-9-10-C-8 W8FLM/8 189-7-9-A-2	<b>High Band</b> AB8GRJ 504-12-14-A-4	<b>South Dakota</b> WA8QLN 630,315-203-1035-C-	<b>Multi Single</b> WA8PCX (+WA89s DGA KJQ LJM) 298,560-160-622-C-78								
<b>Mississippi</b> W5RUB 114,363-131-291-C-18 K5RRG 28,782-78-123-C-33	<b>Orange</b> K6OS 438,075-165-885-C-45 K6TXA 136,800-96-475-F-32 W6CY 136,500-130-350-C-50 AA6FIT 10,506-34-103-C-9	<b>Sacramento Valley</b> AA6JVD 323,760-152-710-C-7 K6DR 318,348-148-717-C-70 W6NKR 287,043-163-587-C-51	<b>High Band</b> K5LZT/6 36-3-4-A-1	<b>High Band</b> W6BIL 3600-30-40-B-24 AC6KYA 3111-17-61-B-3	<b>Arizona</b> W7IR 1,215,942-262-1547-C-85 WA7HRE 101,124-106-318-A-57 WA7YON 12,549-47-89-B-15 W7FCD 660-11-20-B-1	<b>High Band</b> W7AYY 18,357-29-211-C-9	<b>Idaho</b> Multi Single K7NHV (+WA7WXY) 1,372,272-226-2024-C-91	<b>Montana</b> K7ZBV 178,080-106-560- W7LVR 142,230-110-431-C-50 AD7CPC 2040-20-34-A-8	<b>Nevada</b> WA7NIN (W6OAT opr) 119,310-97-410-C-20	<b>Oregon</b> W7TML 939,420-204-1535-C-75 W7LT 3168-16-66-B-31 WA7GZA 1944-18-36-A-19	<b>Utah</b> W7HS 2268-18-42-C-5	<b>Low Band</b> K1PKQ/7 165-5-11-C-1	<b>Washington</b> W7RM (K7VPF, opr.) 1,728,441-237-2431-E-93 W7YTJ 510,300-175-972-C-83 K7DZ 208,884-103-676-C-36 AA7OBL 195,228-102-638-C-49 W7WMY 192,768-128-502-C-40 W7EXM 133,200-111-400-C-35 W7HAD 125,247-83-503-B-76 W7JZ 62,694-81-258-C-28 K7MOK 55,449-61-303-C-24 K7KWC 52,632-51-344-C-9 W7APN 13,407-41-109-C-7 K7RSC 10,608-17-208-C-10 K7EBS 5964-28-71-A-21	<b>Multi Single</b> K3MNT/7 (+WA1KHM) 817,791-169-1613-E-93 W5QQQ/7 (multiplier) 554,607-167-1107-C-48 W7DAZ (multiplier) 369,474-133-926-C-60 W7YH (multiplier) 30,369-53-191-C-	<b>Low Band</b> K7JCA 2187-27-27-C-8	<b>High Band</b> A87JCB 92,412-68-453-C-29 W7GYF 66,360-70-316-C-28 W7JEG 14,256-44-108-A-6 W7RVS 1632-17-86-C-10 W7RVQ 180-4-15-B-2	<b>Wyoming</b> W7JFG 35,328-64-184-C-30	<b>Michigan</b> W8VSK 448,559-209-717-E-7 K8IDE 340,578-159-714-C-35 W8CQN 311,460-179-580-C-33 W8TWA 109,263-121-301-C-53 W8AJUN 80,478-102-263-C-21 W8DA 15,996-62-86-C-10 K8CVV 8214-37-74-C-30 W8GLV 2496-26-32-C-5	<b>Multi-Multi</b> W8HBK (K8LJR, W8s HBK KPL	<b>Wisconsin</b> W9PJT 166,878-127-438-C-25 W9MY 27,816-61-152-C-16 W9PXT 2574-26-33-A-4	<b>Low Band</b> W9MGO 18,000-60-100-C-20 W9PYE 30-2-5-A-1	<b>High Band</b> K9DFA 134,550-115-390-C-7 W9GIL 79,515-93-285-C-	<b>Colorado</b> WA9CVS (WB9DJY, opr.) 915,192-228-1338-C-85	<b>Low Band</b> K9IUB 39,345-61-215-C-24 WA9FFZ 8442-42-67-A-	<b>British Columbia</b> VE7CFQ 17,400-40-145-A-19 VE7FE 13,395-47-95-A-8 VE7ALE 5184-24-72-B-12 VE7FW 4988-24-69-B-20 VE7CFM 2652-17-52-A-24	<b>Northwest Territories</b> WB8RO 1107-9-41-B-19
<b>Northern Texas</b> K5VTA 145,044-153-316-C-6 AC5IUW 21,216-68-104-B-28 W5SOD 14,700-50-98-A-21 W5USG 7524-44-57-A-24	<b>Low Band</b> W6ANN 160,254-87-614-D-50	<b>High Band</b> W6HJ 8760-40-73-C-18	<b>Santa Barbara</b> W6PRP 72,216-102-236-C-30 AA6LBP 20,358-58-117-C-13	<b>Multi Single</b> W6UA (+W6UM) 182,520-156-390-G-	<b>High Band</b> K6OW 73,695-85-289-C-39	<b>Santa Clara Valley</b> W6PAA 1,229,904-216-1898-E-85 W6MUR 934,506-193-1614-C-70 W6SKBK 767,658-194-1319-C-80 K6DC 507,870-165-1026-C-38 W6DQM 430,494-157-914-C-50 K6RU 324,666-102-1061-C-46 W6BJH 104,328-84-414-C-29 K6MA 88,740-87-340-C-27 K6YGS 74,304-86-288-C-28 K6ZX 69,432-88-263-F-8 W6CLM 58,548-82-238-E-52 K6QX 57,723-71-271-C-4 W6GFW (WB6XW opr.) 27,300-52-175-C-10 W6VG 23,664-58-136-C-26 W6EJ 15,600-52-100-C-11 AA6TKT 13,800-40-115-B-8 K6IJS 8085-35-77-C-21 K6WD 7425-25-99-C-2 W6ISQ 3690-30-41-C-4 K6CN 3680-20-61-E-4 W6EMR 2652-17-52-B-5	<b>Multi Single</b> W6OK (+WB6s DSV LPK) 783,840-184-1420-C-90 W6YX (W1ARR, WB2JYM, WA7MQX oprs) 543,914-153-1185-C-64	<b>Low Band</b> WA9ENP/6 130,065-65-667-C-40	<b>High Band</b> K6QZ/6 83,028-68-407-B-8 W6EY 42,993-51-281-C-10 W6ATO 36,960-56-220-C-42 W6DSV (WA6QK opr.) 30,753-51-201-C-24 W6DQE 891-9-33-B-11	<b>San Diego</b> W6MAR 319,278-127-838-C-35 W6BZE 146,466-103-474-C-62 W6BS 58,500-78-250-C-17 W6ABT 53,544-97-184-C-20 K6LLE 24,180-65-124-C-15 W6BORJ 504-8-21-A-3	<b>Low Band</b> W6ITY 183,300-94-650-B-40 K6EBH/6 159,933-89-599-C-60	<b>High Band</b> AD6SDR 220,626-119-618-C-8 W6FF 16,200-45-120-C-18 W6ID 12,921-59-73-C-8	<b>San Francisco</b> W6WB 276,504-164-562-C-75	<b>Multi Single</b> W6BIP (multiplier) 565,080-170-1108-C-75	<b>Low Band</b> K6ILM 11,550-25-154-A-9	<b>High Band</b> W6ZT 111,051-81-457-C-62	<b>San Joaquin Valley</b> K6CQF (VE3DXV, opr.) 1,059,576-212-1666-C-74 K6AO 385,650-150-857-C-60 AC6YKS 149,040-108-460-C-28 W6BVM 53,820-78-230-B-8 K6OZI 53,808-78-236-C-24	<b>Low Band</b> W6VVS 900-5-60-A-8	<b>East Bay</b> K6UJS +435,000-145-1000-F- AB6BIK 41,580-55-252-B-70 W6NRZ 8400-35-80-C-8 W6NUL/6 2880-24-40-A-4	<b>Multi Single</b> WA6NQG (+K6PJY, WA6FWJ, WB6s BBC HDH) 1,211,760-220-1836-C-93 WA6TLV/6 (multiplier) 1,007,655-197-1705-E-96 K6ZM (+WA6BMV, WB6CEP) 589,158-142-1383-C-96	<b>High Band</b> W6RGG 97,614-102-319-C-23	<b>Los Angeles</b> W6OUN (WB6OLD opr.) 1,395,303-247-1883-D-89 W6RTT 1,093,824-216-1688-C-81 K6YYQ 113,730-85-446-C-48 W6DQX 74,181-79-313-C-8 K6OC 46,665-61-255-C-8 WA6NBY 11,040-40-92-C-16 W6FZX 10,101-37-91-B-16 W6RZ 9933-43-77-A-25 W6RDS 6603-31-71-B-16 W6CQ 4320-30-48-C-8 WA6HJK 3225-25-43-B-9 AA6ARP 1998-18-37-A-	<b>Multi Single</b> K6ELX (+W6ABP) 119,016-72-551-C-52	<b>Multi-Multi</b> K6BCE (multiplier) 2,890,926-321-3002-C-96		

### 1976 DX Competition

Scores are grouped in order by U.S. and Canadian call areas, alphabetically by country prefix, and in order by score within each entry category. Example: W1HFB, 1,322,400 points, 290 multipliers, 1520 contacts, power over 500 watts, 84 hours operating time. Power designators are A, 150 watts; B, 150-500; C, over 500; D, E, F, G, combinations thereof. Awards are scheduled for mailing

October 15. An asterisk denotes ARRL staff member, ineligible for an award.

**Disqualifications:** Per the criteria described on page 73 of QST, January, 1976, the following entries have been disqualified: cw: W3CRE, W6PLH; phone: W3CRE.



6  
EAST BAY  
K6UJS 546,060-190- 958-E-  
Multi Single  
WA6NGG (+K6PUY)  
978,540-235-1388-C-80  
AA6VEF/6(-WB6ION)  
567,072-176-1074-C-80  
High Band  
WB6BKN 6138- 31- 66-C-19  
LOS ANGELES  
WB6HX (WB6OLD opr.)  
1,799,892-289-2076-C-92  
K6OC 43,860- 86- 170-C  
W6RRT 21,312- 48- 148-C- 3  
Multi Single  
K6SVL (+K6GJD, W6NHX,  
WA60W)  
1,009,356-233-1444-C-87  
K6ELX (+W6ABP)  
159,744-104- 512-C-69  
WA6NBY (+W6A)  
56,448- 84- 224-C-25  
Low Band  
WA6EKL 94,950- 75- 422-C-37  
K6BCE 12,036- 34- 118-C- 7  
High Band  
WB6PXP 692,070-170-1357-C-65  
WB6VN 63,000- 75- 280-A-27  
W6VPZ (W6CFM opr.)  
11,040- 46- 80-C-12  
AA6KX/6 8580- 44- 65-C-12  
W6RDS 5406- 34- 53-B- 8  
W6CO 2951- 21- 47-C- 8  
W6PGE 162- 6- 9-B- 7  
ORANGE  
W6YMV 131,520-137- 320-C-55  
W6VCY 84,525-115- 245-C-39  
AA6FIT 62,604- 74- 282-C-20  
K6TXA 29,232- 58- 168-F-13  
Low Band  
K6OS 3225- 25- 43-C-11  
High Band  
WB6WIW 1680- 20- 28-B- 6  
SANTA BARBARA  
WB6PRP 46,440- 86- 180-B-25  
AA6LBP 27,336- 68- 134-C-13  
Multi Single  
W6UA (+W6UM)  
188,604-156- 403-F-  
High Band  
WA6VYK 115,878- 89- 434-A-27  
K6OW 64,680- 88- 245-C-40  
SANTA CLARA VALLEY  
W6YX (WA7MQX, opr.)  
W66MSQ 626,898-163-1282-C-60  
K6BR 340,650-150- 757-C-60  
AA6EJB 203,040-120- 564-C-36  
K6GTL 100,206-114- 293-C-32  
K6ITL 88,200- 84- 350-B-27  
W6YVK 76,860-105- 244-B-29  
WA6GFY (WB6EXW opr.)  
69,606- 74- 273-C-15  
W6EJ 57,900-100- 193-C-23  
W6MUR 46,350- 75- 206-C-20  
K6QX 23,985- 65- 123-C- 8  
K6Z 16,478- 12- 15- 8- 8  
K6CN 18,078- 46- 131-E-10  
W6BJH 14,274- 39- 122-C- 7  
WB6JGS 9918- 38- 87-C- 8  
K6RU 7656- 29- 88-C-16  
Multi Single  
W6OKK (-WB6DSV)  
1,069,047-213-1673-C-96  
WB6KKB (+W6AGB)  
969,969-247-1309-C-88  
Multi-Multi  
W6PAA (+W1ARR, WA3MQJ,  
WB6S CEP DSV, KW4ENP)  
709,236-198-1194-C-58  
Low Band  
K6MA 3900- 26- 50-C- 5  
High Band  
W6EYV 159,426-102- 521-C-28  
W6HXW 88,755- 97- 305-C-42  
AA6TKT 13,373- 53- 147-B- 8  
W6ZVC 12,373- 43- 22-C-29  
W6CLM 16,377- 53- 103-E-21  
W6ISQ 1224- 17- 24-C- 2  
SAN DIEGO  
K6PO 163,530-115- 474-C-37  
W6BZE 149,445-135- 369-C-68  
W6BAT 93,600-130- 240-C-26  
W6JOT 93,495-115- 271-C-42  
K6LLE 82,942-112- 247-C-30  
W6ZMX 79,782-104- 256-C- 8  
W6CHV 72,576-144- 168-B-42  
W6MAR 46,134- 66- 233-C-10  
W6LWY 20,580- 49- 140-B- 8  
AC6KBD 2415- 23- 35-A-14  
Multi-Multi  
W6ONV (+W6MAR, WA9UCE)  
2,017,536-296-2272-C-96  
Low Band  
WA9OOL/6  
96,255- 65- 495-C-55  
W6ITY 59,514- 91- 218-F-40  
High Band  
WA6DNM 517,293-153-1127-C-  
W6LON 18,306- 54- 113-C-10  
W6FF 15,766- 49- 107-C- 2  
W6ID 6000- 40- 50-C- 6  
SAN FRANCISCO  
W6WB 96,747-119- 271-C-40  
Multi Single  
W6BIP (multiop)  
187,452-123- 508-C-45  
Low Band  
K6ILM 2040- 20- 34-A- 4

SAN JOAQUIN VALLEY  
K6CQF (VE3DXV opr.)  
832,419-219-1267-C-67  
K6AO 52,824- 71- 242-C-18  
WB6VM 3434- 22- 52-B- 8  
Low Band  
K6QHC 20,691- 57- 121-C- 4  
High Band  
W6PWX 516,375-153-1125-C-54  
W6MMH 1260- 14- 30-C- 4  
SACRAMENTO VALLEY  
K6DR 134,082-117- 382-C-40  
W6NKR 7839- 39- 67-C- 9  
High Band  
W6BIL 5439- 37- 49-B-20  
AC6KYA 2394- 19- 42-B- 3  
K5LZT/6 3- 1- 1-A- 1  
7  
ARIZONA  
W7AYY 185,592-148- 418-C-31  
W7HRE 75,492-108- 233-A-55  
WA7FD 18,786- 62- 101-A-12  
High Band  
WA7NFH 235,200-140- 560-C-46  
K7NXH 153,738-117- 438-C-35  
IDAHO  
WA7WXY 546,759-237- 769-C-42  
MONTANA  
K7ABV 35,964- 74- 162-C- 2  
WA7OBH 192- 8- 8-A- 2  
NEVADA  
W7UJO 1488- 16- 31-C-10  
OREGON  
W7TML 566,544-176-1073-C-69  
K7MHN 145,431-113- 429-C-55  
WA7VJY 225- 5- 15-A- 8  
WA7GZA 168- 7- 8-A- 3  
High Band  
WB7ABK 277,125-125- 739-C-48  
WA7PEZ 51,561- 51- 337-C-18  
UTAH  
K7OXB 142,485-115- 413-C-35  
K1PKQ/7  
W7HS 100,233-111- 301-C-20  
29,394- 71- 138-C-21  
WASHINGTON  
W7SFA (W7VFP opr.)  
1,377,257-1475-C-91  
W7YTN 127,588-138- 542-F-75  
W7WY 81,354- 91- 298-C-16  
K7GEX 51,606- 61- 282-C-40  
K7DZ 50,115- 65- 257-C-22  
W7BCT 38,115- 55- 231-C-44  
WA7URW 37,620- 44- 285-C-22  
W7HAD 35,550- 50- 237-B-71  
K7MOK 34,884- 37- 204-C-24  
AC7KWC 19,584- 32- 204-C- 5  
K7DS 7350- 35- 70-C-12  
K7RSB 594- 9- 22-C- 3  
Multi Single  
WA7ZLC (multiop)  
652,239-203-1071-C-96  
K3MNT/7 (+WA1KMK,WA7UQG)  
623,610-195-1066-C-86  
W7RM (+W6RR)  
542,322-198- 913-C-30  
W7VR (+W7S DQM EKM  
WA7ZW)  
519,651-181- 957-C-94  
K7JCA (+W7EY)  
220,752-112- 657-C-30  
W5YQQ/7 (+WA7UQV)  
82,503- 89- 309-C-48  
W7YH (multiop)  
49,248- 72- 228-B-  
Low Band  
K7RSC 51,153- 59- 289-C-23  
AD7EFB 21- 1- 7-A- 1  
High Band  
WA7LAG (K7RSC opr.)  
202,758- 94- 719-C-29  
AA7JCB 85,050- 54- 525-C-21  
K7LY 18,318- 43- 142-C-24  
WA7OBL 11,445- 35- 109-C- 5  
WA7PAP 8100- 36- 75-C- 8  
W7GQ 2940- 20- 49-B-15  
W7JEG 2793- 19- 49-B- 5  
W7RVQ 63- 3- 7-B- 1  
WYOMING  
W7WIN 83,160-126- 220-C-37  
8  
MICHIGAN  
K8YRV 322,197-211- 509-C-48  
W8TWA 290,895-205- 473-C-72  
K8CVV 19,110- 65- 98-C-36  
K8DDV 11,232- 52- 72-A- 4  
AC8GLC 6327- 37- 57-C-13  
Multi Single  
WB8CNL (WA1DXS, WA8PPF, WB8S  
GCC LDH RKN oprs.)  
384,408-228- 562-C-44  
Multi-Multi  
K8IDE (+11MOL, K8HLR,  
WB8PIV)  
744,129-267- 929-C-60  
High Band  
WB8NWO/8  
131,784-136- 323-C-56  
WB8RHJ 105,983- 31- 306-C-66  
WA8JUN 15,048- 57- 88-C- 6  
W8LS 14,382- 51- 94-C-18  
OHIO  
WA8YWX 418,605-215- 649-C-60  
WB8FO 232,200-200- 387-C- 8  
WA8AJ 21,675-175- 407-C-55  
WA8TJL 138,528-156- 296-B-30  
AB8PTP 115,773-149- 259-C-43

W8ZCQ 114,240-140- 272-C-30  
WB8ML 90,909-111- 273-C- 8  
K8CXM 79,005-115- 229-C-50  
AD8HBN 74,538-123- 202-C-18  
WB8NPF 51,084- 99- 172-C-39  
AC8FJS 44,928- 82- 151-C-44  
W8II 37,488- 88- 142-C- 8  
W8YGR 35,154- 93- 126-A-15  
WB8WP 33,012- 84- 131-D-40  
WA8NYB 31,302- 74- 141-C- 6  
K8NXX 18,648- 56- 111-F-17  
WB8VVF 6042- 38- 53-C- 5  
K8PSG 4998- 34- 49-C- 8  
Multi Single  
W8LT (WA1LKU WB8S IBZ INY  
JXS ZBF oprs)  
280,578-202- 463-C-61  
AB8IAY (+WA8LXW, WB8NZM)  
32,868- 83- 132-C-30  
Low Band  
WA8ZDF 213,144-166- 428-C-58  
AC8BDO/8 9315- 45- 69-C-23  
K8UQA 7992- 36- 74-C-13  
High Band  
WB8WHS 37,638- 82- 153-C-20  
WB8OE 10,032- 44- 76-C-24  
WB8BA 2376- 22- 36-B-16  
WB8VZ 1980- 22- 30-B- 3  
K8PYD 1932- 23- 28-C- 6  
WEST VIRGINIA  
W8JM 396- 11- 12-C- 3  
High Band  
AA8VZO 6195- 35- 59-B-20  
9  
ILLINOIS  
K9HMB 1,008,432-298-1128-C-74  
K9BGL 441,960-232- 635-C-70  
AD9UKM 159,408-164- 324-F-55  
W9DWC 131,805-145- 303-C-18  
AC9OHH 78,045-121- 215-C- 8  
WB9LH 45,360- 90- 168-B-16  
W9LW 42,336- 98- 144-C-16  
K9GMT 17,280- 64- 90-C-12  
W9CRN 14,160- 59- 80-C-13  
K9UJ 4923- 31- 53-A-15  
WB9UDK 4428- 31- 53-A-15  
WB9DDR 3627- 31- 39-C-10  
AB9DVQ 3240- 30- 36-B- 8  
W9HPG 297- 9- 11-A- 6  
Low Band  
K9PPY 33,228- 78- 142-C-16  
W9YH (WB9NPB opr.)  
25,200- 70- 120-E-20  
High Band  
WB9HAD 393,888-176- 746-C-48  
W9WYV 130,650-134- 325-C-35  
W9MLG 125,367-131- 319-C-45  
W9IV 75,864-109- 232-C-34  
W9ACT/9 61,275- 95- 215-C-47  
W9YRA 53,502- 74- 241-C-16  
W9NLR 44,829- 90- 166-C-14  
WA9VOL 36,972- 79- 156-C-12  
WB9GCV 2457- 21- 39-C-10  
W9REC 990- 15- 22-B-10  
K9JLK 192- 8- 8-B- 4  
INDIANA  
WA9BWW 477,000-250- 636-C-50  
WB9CEP 118,020-140- 281-C-29  
WB9IG 63,732-113- 188-C-22  
AD9VQK 40,824- 82- 189-C-26  
W9USS 18- 2- 3-B- 4  
Multi-Multi  
WA9NPM (+K9OTB, WA9RJI, WB9S  
BPG LTY oprs)  
631,989-267- 789-C-96  
W9TQA (multiop)  
204,135-155- 439-C-47  
Low Band  
K9UWA 49,248- 96- 171-C-30  
High Band  
K9CLO 19,650- 50- 131-C-18  
K9ODF 18,300- 61- 100-C-14  
WB9RFK 810- 15- 18-B- 4  
WISCONSIN  
WB9MOG 16,800- 56- 100-C-20  
High Band  
W9GIL 34,293- 71- 161- 8  
10  
COLORADO  
WA9CVS (WB9DJY opr.)  
826,008-254-1084-C-85  
W9PAY 13,860- 55- 84-C-15  
High Band  
WA2WMT/6  
273,612-151- 604-C-44  
WB9IKN 248,820-130- 638-C-34  
WA9TAM 54,144- 94- 192-B-49  
WB9W 35,193- 82- 181-C-22  
WB9PC 9804- 43- 76-A-13  
IOWA  
AC9FHE 168,012-156- 359-C-41  
WA9NAA 36,498- 77- 158-C-34  
WB9JN 32,964- 82- 134-C-22  
WA9VU 1071- 17- 21-B- 4  
AD9EGA 816- 16- 17-B- 6  
Multi Single  
W9PCO (+K9FLY, W9S LBS MUH)  
678,396-274- 818-C-88  
K9OAM (multiop)  
75,816-108- 234-C-38  
Low Band  
W9PRV 3960- 30- 44-A- 8  
AA9VDX 3448- 28- 41-C- 7  
W9MQQ 1482- 19- 26-C- 3  
High Band  
WB9HOC 132,132-143- 308-C-43  
AA9WCR 66,768-104- 214-B-24  
WB9W 56,744-104- 181-C-40  
WB9FFH 9315- 45- 69-C- 9  
WB9EG 3864- 28- 46-B- 9  
WB9HK 366- 27- 45-A- 8  
AC9HUP 900- 15- 20-C- 2

KANSAS  
WA9AGN 84,240-117- 240-C-55  
AC9IUB 66,462-106- 209-C-17  
WA9GSG 40,977- 87- 157-C-22  
High Band  
AA9VJL 16,020- 60- 89-B- 8  
WA9DOZ 10,224- 48- 71-A-15  
MINNESOTA  
W2GUH/9  
W9LP 512,655-239- 715-C-65  
11,088- 48- 77-C-20  
Multi Single  
WB9ANT (multiop)  
207,090-177- 390-C-65  
High Band  
W9HW 48,111- 79- 203-C- 8  
MISSOURI  
WA9PAO 302,382-214- 471-C-60  
K9IFL 83,538-117- 238-C-37  
WA9FBQ 12,006- 58- 69-A-22  
WB9JP 7686- 42- 61-A-30  
AC9OYG 5148- 33- 52-C-12  
AB9FLM/9 3528- 28- 42-A- 9  
Multi Single  
K9AZV (multiop)  
78,840-120- 219-C-40  
NEBRASKA  
WA9ZPM 25,560- 71- 120-C-30  
K9SCM 19,344- 62- 104-C-23  
High Band  
W9EKB 22,815- 65- 117-B-32  
K4AVQ/9 14,310- 53- 90-C-16  
NORTH DAKOTA  
AD9WXX/9  
115,020-135- 284-F-60  
SOUTH DAKOTA  
WA9CPX 381,936-218- 584-C-82  
High Band  
WA9ONL 201,600-140- 480-C- 8  
CANADA  
MARITIME  
Low Band  
VE1EP 1350- 18- 25- 8  
High Band  
VE1ANH 11,025- 35- 105-C-11  
VE1EK 7200- 30- 80-A-10  
QUEBEC  
VE2AYU 147,822-142- 347-C-70  
Low Band  
XJ2AH 5406- 34- 53-C- 7  
ONTARIO  
VE3MV 29,184- 64- 152-C-30  
Low Band  
VE3ENM 34,263- 81- 141-C- 8  
VE3BBN 21,120- 55- 128-E-32  
VE3AK 3564- 27- 44-C- 5  
High Band  
XJ3EJK 8970- 46- 65-B- 8  
VE2AE/3 2475- 25- 33-B-10  
MANITOBA  
VE4RP 17,271- 57- 101- 37  
VE4JK 14,850- 55- 90-B-33  
SASKATCHEWAN  
VESRA 57,810- 94- 205-C- 8  
Multi Single  
VE5NN (+VE5S DX NW OA XU)  
56,856-103- 184-C- 8  
High Band  
VE5TT 1125- 15- 25-A- 9  
ALBERTA  
Multi Single  
VE6VM (+VE6CU)  
11,040- 46- 80-B-88  
High Band  
VE6WX 1530- 17- 30-B-12  
BRITISH COLUMBIA  
VE7EL 106,812-129- 276-C-66  
XJ7AZG 18,447- 43- 143-E-17  
Multi Single  
VE7BGK (+VE7S BCU CGR CGY)  
93,432- 68- 458-A- 8  
Low Band  
WA6GUK/VE7  
1482- 13- 38-A-15  
High Band  
VE7DEW 9675- 25- 129-C-20  
NORTHWEST TERRITORIES  
VE8RO 3564- 22- 54-B-18  
DX CW  
Africa  
BOTSWANA  
AZCANN (SM4CANN opr.)  
43,020- 60- 239-B- 8  
CANARY ISLANDS  
Low Band  
EA8BF 6318- 26- 81-A- 4  
LIBERIA  
EL2T 1,177,920-192-2045-C-52  
J93DTR

Low Band  
EL2X 57,102- 62- 307-C- 8  
IVORY COAST  
TU2GI 107,532- 87- 412-B- 8  
RHODESIA  
High Band  
ZE4JS 30,624- 44- 232-A- 4  
SOUTH AFRICA  
ZS6BNF (SM6CANN opr.)  
62,604- 74- 282-A- 8  
MAURITANIA  
ST5JC 245,421-111- 737-B-20  
Asia  
MACAO  
CR9AJ 16,848- 27- 208-B- 8  
JAPAN  
JA2WJ 654,534-138-1581-C-69  
JE1SSE 335,175-109-1025-B- 8  
JA1CG 218,268- 86- 846-B-60  
JA7GA 14,428- 84- 589-A-37  
JA7DAH 71,154- 67- 354-B-27  
JA6CNL 51,813- 57- 303-B- 8  
JA1PS 44,541- 49- 303-A-35  
JA7CPW 32,819- 51- 215-B-28  
JA2BI 31,122- 42- 247-B- 8  
JA7KXD 29,832- 44- 226-B-20  
JA8SW 29,187- 47- 207-A- 8  
JA7GA 26,058- 43- 202-B-25  
KA6DX 25,956- 42- 206-F-25  
JA3GHG 23,940- 38- 210-A-42  
JR2BP 21,840- 56- 130-A- 4  
JA1ZSX (K8HVT opr.)  
39,932- 44- 151-A- 8  
JA1CSB 19,869- 37- 179-C-17  
JA7LKH 18,684- 36- 173-A-21  
JA7MG 17,442- 38- 153-B-15  
JA1RM 11,365- 33- 135-C-14  
JH7BRG 12,963- 29- 149-C- 8  
JA1WL 12,672- 32- 132-B-10  
JA6UYF 11,250- 25- 115-B-35  
JA1BNW 11,214- 26- 113-C- 8  
JA7AEM 8568- 24- 119-C-12  
JR2BSR 7011- 19- 123-A-13  
JA1CFX 918- 6- 76-A- 8  
JA9GLT 6225- 25- 83-A-16  
JR2BDF 4368- 16- 91-A- 8  
JA7ARW 3948- 18- 73-A- 8  
JF1QJD 2640- 14- 70-B-10  
JA1BSU 2736- 16- 57-A- 6  
JF1IO 1287- 11- 39-A- 8  
JA5BYF 1188- 9- 44-A- 8  
JH1CX 918- 6- 76-A- 8  
JH3KWQ 792- 8- 33-A- 7  
JA9HV 720- 8- 30-B- 8  
JR3STC 156- 4- 13-A- 8  
JA2BNN 120- 5- 8-A- 8  
Multi Single  
JA9YA (JH1GUO, JH2S FKX SG  
JA3VEN, JA9S GLL DZS GE  
opr)  
425,448-114-1370-C- 8  
JA1YFL (JE1TSD, JH2KWC,  
JA9UCJ oprs)  
137,592- 91- 504-C-39  
JA7YAF (multiop)  
74,685- 65- 383-A30  
JA1YHA (multiop)  
65,697- 61- 359-C- 8  
KA2USF (+W6WFW)  
56,763- 51- 371-C-25  
JA7YAA (JH2DVX, JA7K  
KEL LMA LUR oprs)  
246- 4- 246-A-38  
JA3YK (JA3DC, JA3RC,  
JR3BVX, JH3CS AIU HBF KWQ  
PLE oprs)  
29,526- 38- 259-B-31  
VE4RP (+JA2S AO EMP JEM  
JH2RBQ, JR2AAZ)  
882- 6- 49-B- 8  
Multi-Multi  
JA1YXP (JAATNV, JA8XQI,  
JA7OZW, JH3MAL, JH1RIG,  
JE1MSB oprs)  
1,280- 80- 522-B-64  
JA3YDS (JH3HRW, JA3UOQ,  
JA5HHM, JA9OZC oprs)  
10,080- 30- 112-B-20  
JH2ZJR (multiop)  
750- 10- 25-A- 8  
Low Band  
JA1MCU 64,980- 57- 380-C-25  
JA1AP 40,047- 46- 225-A-31  
JA1BZC 22,680- 40- 189-C- 8  
JA1HOM 17,313- 29- 199-C-30  
JA1DQT 17,205- 37- 155-C-15  
JA1FS 15,442- 26- 198-B-16  
JA1ITX 11,364- 28- 171-B- 8  
JF1TC 9633- 19- 169-A-32  
JG1EUS 6540- 20- 109-A-24  
JA6GPR 6292- 46- 225-A-37  
JA1FIJ 6936- 16- 82-B-20  
JA7AJU/1 3315- 13- 85-A-10  
JH1BRB 2700- 15- 66-B- 8  
JH2IRH 2301- 13- 59-A-28  
JA9CWJ 2112- 11- 64-A- 4  
JH7CZQ 1980- 12- 55-B-30  
JA8GZA 1848- 11- 56-A-20  
W9LVV 17,674- 9- 62-A-31  
JA2ZER 1458- 9- 54-A-15  
JA5JD 1215- 9- 45-A- 6  
JA9KOH 924- 7- 44-A-16  
JA2EJQ 888- 8- 37-A- 8  
JE1VCO 6292- 46- 230-C-60  
JA1XNP 486- 6- 27-A- 3  
JA3WHJ 480- 5- 32-A- 8  
JA3BT 390- 5- 26-A- 8  
JH3BN 48- 2- 8-A- 1  
JR2PPK 18- 2- 3-A- 2  
JA2MIM 15- 1- 5-A- 2  
JH9BQX 15- 1- 5-A- 2  
High Band  
JA1PCY 104,139- 57- 609-B-25  
JH1ACQ 71,292- 52- 457-B-21  
JA1EM 68,874- 53- 433-B-19  
JA1EY 62,922- 46- 230-C-60  
JG1EE 20,685- 35- 197-B-12  
JH1MTR 19,890- 34- 195-B-20  
JA5JBK 18,432- 32- 192-A-25  
JA1WVO 17,674- 9- 62-A-10  
JR1HS 15,051- 29- 173-B- 9  
JA1MY 13,158- 24- 129-B- 4  
JA9SV 12,555- 27- 155-B- 8  
JR1FVW 12,181- 13- 61-C- 6  
JH9BA 10,140- 26- 130-A-20  
JA9FT 9951- 31- 107-B-17  
JH3DTR 9396- 27- 116-A-17



**PANAMA**  
 HP1AC 304,560-135-752-A

**ALASKA**  
 KL7HRP 395,694-114-1157-C-40  
 AL7IDH 357,669-117-1019-C-32  
 AL7AI 317,190-97-1090-C-22  
 AL7EWA 51,423-61-281-B-10

**High Band**  
 KL7HDX 24,753-37-223-C-9

**PUERTO RICO**  
 KP4EAJ 3,852,687-263-4883-C-69  
 KP4EKI 3,495,270-263-4430-C-69

**Low Band**  
 AJ4EAS 651,000-124-1750-C-38

**VIRGIN ISLANDS**  
 KV4IO 1,626,888-212-2558-B-50

**GREENLAND**  
**Low Band**  
 OX3RA 30,528-48-212-A

**High Band**  
 OX3AB 307,317-89-1151-A  
 OX3OA 104,328-72-483-B

**SINT MAARTEN**  
**Multi Single**  
 PJ8CO (W1YE K1LPA K1DQV WA2AUC oprs)  
 1,989,756-228-2909-C-48

**GUATEMALA**  
 VE2AQS/TG9 259,776-123-704-B

**COSTA RICA**  
 TI2WX 1,004,892-196-1709-A

**DOMINICA**  
**Multi Single**  
 VP2DE (FG7AN F6BBJ oprs)  
 499,212-147-1132-A

**GRENADA**  
 VP2G (W5MYA, opr)  
 2,131,974-234-3037-B-42

**ST. Kitts**  
 VP2KTR (+VP2s KA KF KK KN)  
 1,183,878-178-2217-B

**MONTSERRAT**  
 VP2MOC (K2JOC, opr)  
 2,139,000-250-2852-C-35

**High Band**  
 VP2MB 17,535-35-167-A-12

**TURKS & CAICOS ISLANDS**  
 VP5DF 528-11-16-A-3

**MEXICO**  
 XE2MX 870,870-182-1595-B  
 XE1FL 387,288-132-978-B-42

**NICARAGUA**  
 YN1FVN 48,600-75-216-B-9

**CAYMAN ISLANDS**  
**Multi Single**  
 ZF1AL (K4SHB WA4SVH WB4TAF oprs)  
 2,100,636-236-2967-C-48

**JAMAICA**  
**Multi Single**  
 6Y5ED (+6Y5FB)  
 65,025-85-255-B-31

**BARBADOS**  
**Multi Single**  
 8P6HN (W1As OIR OXN oprs)  
 1,145,664-208-1836-B-28

**Oceania**  
**TONGA ISLANDS**  
 A35NN (WB7ABK opr)  
 423,654-154-917-A

**REPUBLIC OF NAURU**  
**Multi Single**  
 C21NI (W6s KG DOD)  
 428,904-148-966-B

**PHILIPPINE ISLANDS**  
 DU6EG 2124-12-59-BC-10

**GUAM**  
 KG6JAW 79,296-64-413-F

**Low Band**  
 KG6JFY 55,152-48-383-C-11

**HAWAII**  
 KH6IJ 2,512,488-248-3377-C-76  
 KH6CF 1,609,089-211-2542-C-63  
 KH6HKM 1,479,816-221-2232-C  
 K4VVI/KH6 118,341-81-487-B-44

**Low Band**  
 KH6JAC 186,732-91-684-E-10  
 AH6HSC 167,970-110-509-A-20  
 KH6HNT 16,872-38-148-A-8

**High Band**  
 AH6JJA 88,356-74-398-B-16

**AUSTRALIA**  
 VK2GW 364,146-137-886-A-75  
 VK7CM 66,024-84-262-A-14

**Low Band**  
 VK2AR 289,170-90-1071-A-30

VK3MR 229,548-94-814-A-4  
 VK3QI 151,641-87-581-A-24  
 VK2AYD 151,993-43-217-A-11  
 VK4UR 11,856-38-104-A-4  
 VK3APN 8613-29-99-A-4  
 VK8BA 189-7-9-A-1

**LORD HOWE ISLAND**  
 VK200/LH 71,928-74-324-A

**INDONESIA**  
**High Band**  
 YB9ABX 693-11-21-B

**NEW ZEALAND**  
 ZL3GG 705,936-191-1232-A-30  
 ZL1AFW 462,384-152-1014-A-43

**Low Band**  
 ZL1AMO 184,320-96-640-B

**FIJI ISLANDS**  
**Multi Single**  
 3D2KG (W6s KG DOD)  
 431,496-156-922-B

**South America**  
**BOLIVIA**  
 CP1EU/6 141,300-100-471-C-12

**ECUADOR**  
**High Band**  
 HC5EE/HC1 30,318-62-163-C-5

**ANTARCTICA**  
 KC4AAC (WB6KIL, opr.)  
 1,256,640-187-2240-C

**ARGENTINA**  
 LU6EF 902,088-201-1496-B-91  
 LU5DVO 398,046-163-814-B

**PERU**  
 OA8V 151,506-114-443-A-20

**NETHERLANDS ANTILLES**  
 PJ2VD 3,702,105-277-4455-C-62  
 PJ9JT (W1BH, opr.)  
 1,869,120-220-2832-C-32

**BRAZIL**  
 PY1BOA 614,859-161-1273-A-41  
 PY1NEW 505,812-153-1102-B-35  
 PY7SR 436,482-137-1062-B-8  
 PT2JB 8004-23-116-A-3

**Low Band**  
 PY6AVY 4950-25-66-B

**SURINAM**  
 PZ1DR (W3GXF, opr.)  
 391,878-118-1107-C-14

**VENEZUELA**  
 YV1HQ (VE3EQZ, opr)  
 929,223-201-1541-B-35

**Low Band**  
 YV1TO 126,795-79-537-C-15

**High Band**  
 YV1OB 453,252-107-1412-A-40

**TRINIDAD & TOBAGO**  
 9Y4AC (VE7BZC, opr.)  
 548,205-161-1135-B-22

**DX PHONE**  
**Africa**  
**LIBERIA**  
 EL2T 1,844,520-190-3236-C-60

**High Band**  
 EL2X 330,720-106-1040-C-18  
 EL2U 31,644-36-293-B-6

**SOUTH AFRICA**  
**Low Band**  
 ZS6DW 155,556-87-596-B-16

**MAURITIUS**  
**High Band**  
 3B8CV 3927-17-77-B

**MAURITANIA**  
**High Band**  
 5T5CJ 134,853-79-569-B-12

**SENEGAL**  
 6W8FP 2,773,713-227-4073-C

**Asia**  
**MACAO**  
**High Band**  
 CR9AJ 252-4-21-B

**KOREA**  
**High Band**  
 HM2JN 360-5-24-A

**JAPAN**  
 JA2JW 289,170-90-1071-C-60  
 JA7GAX 19,503-33-197-A-23  
 JA4EKL 15,522-27-192-B-29  
 JA6CNL 12,090-26-155-B  
 JA1GHR 6912-18-128-B  
 JH7CZQ 3354-13-86-B-50  
 JR3COC 2226-7-106-A  
 JA1YXP 1980-10-66-A  
 JA1EMX 1833-13-47-B-4  
 JA1CFJ 1518-11-46-A-6  
 JA1BKB 1080-10-36-A-9  
 JA1OBW 750-5-50-A  
 JR2BPV 378-7-18-A

**Multi Single**  
 JA9YBA (JA9s BEX DPR DZS FSU GLL GOE, JH1GUO, JH2s FKX SUG oprs)  
 80,040-58-460-C  
 JA3YDS (JH2AZY, JA3UOQ, JH3HRW, JR3PYW, JA9s FOR GLT oprs)  
 14,898-26-191-B-38  
 JA3ZBI (multitop)  
 10,584-24-147-B  
 KA6JC (+KA6G)  
 4335-7-98-C-8  
 JA3YKC (JH3s HBF KWQ PLE JA3REU, JR3BVX oprs)  
 4335-7-85-B-15  
 JA2ZHX (JA2s AO GLA EAU EMP JEM, JH2s RBQ WKO oprs)  
 1404-9-52-A

**Multi-Multi**  
 JA1YFL (JR1GVZ, JH2KKW, JA4BT, JA9CJ oprs)  
 117,195-65-601-B  
 JA7ZKR (JH7s CZQ DPU FDL FLE oprs)  
 2535-13-65-A-60  
 JH2ZJR (multitop)  
 627-11-19-A

**Low Band**  
 JA1EYL 27,225-33-275-B  
 JA1IHM 819-7-39-C-13  
 JA1XMS 240-4-20-C-4  
 JH1BRB 189-3-21-B  
 KA6DX 66-2-11-C-3  
 JA2RER 30-1-10-A-2  
 JI1JBX 24-1-8-A-2

**High Band**  
 JA1PCY 27,156-31-292-B-25  
 JA1HVS 24,012-29-276-C-22  
 JH1ACQ 13,524-23-196-C  
 JA1PUK 9288-24-129-B-11  
 JH7BRG 3408-16-71-C  
 JA1SIG 2340-10-78-B-5  
 JA8AGA 1518-11-46-B  
 JR2BDF 1242-9-46-A  
 JH1MTT 924-7-44-A  
 JA4GK 92-2-11-C-6  
 JA8AIE 780-10-26-B  
 JG1QXE 705-5-47-A-10  
 JH1BQE 648-9-36-B  
 JA2TKO 630-7-30-B-5  
 JH2BFU 504-6-28-A-25  
 JA2AJA 486-6-27-B-5  
 JA6UYF 480-5-32-A-8  
 JA2BNN 210-4-14-A  
 JA3CVO 198-3-22-A  
 JA9UXG 180-2-30-B-8  
 JE3MVB 156-3-26-A-4  
 JA3XRC 153-3-17-B-3  
 JG1RDV 144-3-16-A-4  
 JA1AAT 126-3-14-B-3  
 JA7KXD 108-4-9-B-2  
 JA9ANF 99-3-11-A-2  
 JA4UDP 99-3-11-A-3  
 JF1JUD 42-2-7-A-2  
 JA1IRD 36-4-8-B  
 JR2MKV 30-1-10-A-3  
 JA3ELU 18-2-3-A  
 JH8BQX 18-1-6-A-1  
 JH8BQJ 6-1-2-A-1

**MINAMI TORISHIMA**  
**Low Band**  
 JA8IEV/JD1 656-8-19-A

**ASIATIC R.S.F.S.R.**  
**High Band**  
 UA9CBO 1350-10-45-B  
 UA9FBZ 912-8-38-A

**ISRAEL**  
**High Band**  
 4X4HT (WB2GSW opr)  
 252-7-12-B-1

**Europe**  
**PORTUGAL**  
 CT4AT 1,386-264-178-2596-C-82  
 CT1OY 352,775-117-1005-A-29  
 CT1DW 83,877-73-383-B-20  
 CT4BM 13,068-36-121-A

**High Band**  
 CT1QZ 133,350-50-889-C-27  
 CT1NY 36,432-46-264-B-23

**FED. REPUBLIC OF GERMANY**  
 DK3BJ 77,280-70-368-C  
 DJ2YE 594-11-18-C-2

**Multi Single**  
 DA2DS (multitop)  
 5229-21-83-C-11

**Multi-Multi**  
 DLSAY (DA1s AD AY HL IY LD LK PK, DA2s CW JG KY, DL1ZX DK8ZD, oprs)  
 152,880-70-728-C

**High Band**  
 DL8JS 75,870-45-562-C-22  
 DJ9BA 75,735-45-561-B-23  
 DK8FZ 20,394-33-206-C-10  
 DK5VO 15,066-27-186-B  
 DA2KD 3060-20-51-B-18

**SPAIN**  
 EA1FX 277,368-104-889-B  
 EA4LH 143,289-87-549-C  
 EA5TD 77,544-72-359-B-10

**High Band**  
 EA3VM 68,166-42-541-C-24

**REPUBLIC OF IRELAND**  
**Multi Single**  
 EI9CB (multitop)  
 199,290-65-1022-B-36

**FRANCE**  
 F5BV 4488-22-68-A

**Low Band**  
 F6BRK 744-8-31-A

**High Band**  
 F6BDN 54,912-52-352-A-25  
 F6BFF 49,134-38-431-A-22  
 F5RC 28,431-39-243-B

**F6KHR (F6DJN) opr**  
 F6DJN 8,612-32-188-A  
 F6CLM 16,704-32-174-A  
 F6CCI 3024-16-63-A  
 F6CCI 750-10-25-B-6

**ENGLAND**  
 G4ANT 302,778-89-1134-C  
 G4BTY 184,977-93-663-B-60  
 G4DKT 18,327-41-149-B-23  
 G2QT 16,644-38-146-A-15

**Low Band**  
 G3TJW 125,928-72-583-B-30

**High Band**  
 G3SSO 118,935-45-881-B-23  
 G2FNM 31,920-38-280-B-20  
 G3TXF 11,832-29-136-A-4  
 G3VBH 5040-16-105-B-6

**WALES**  
**High Band**  
 GW4BLE 203,148-57-1188-B-30  
 GW4CYD 8568-28-102-B

**HUNGARY**  
**Multi Single**  
 HA9KLE (HA9s LD LJ LM LO LZ oprs)  
 56,760-55-344-AC  
 HA5KKC/7 (HA5s MA MD MO oprs)  
 2736-16-57-A-21

**High Band**  
 HA9KLU 3618-18-76-B-20

**SWITZERLAND**  
 HB9AUS 72,072-56-429-C-31

**High Band**  
 HB9ASL 3132-18-58-B

**LIECHTENSTEIN**  
**High Band**  
 WA4WME/HB9  
 825-11-25-A-6

**ITALY**  
 I3MAU 934,200-150-2076-B-72  
 I1BAF 590,964-121-1628-B  
 I1CHC 298,620-84-1185-B-48  
 I5NSR 16,740-31-180-B-24

**High Band**  
 I6DGM 248,850-75-1106-B  
 I9AMU 115,434-66-583-C-25  
 I2MGP 1584-16-33-A

**NORWAY**  
 LA6HL 67,368-56-401-B-17

**High Band**  
 LA3WU 3819-19-67-B  
 LA21J 1218-14-29-B  
 LA21E 480-8-20-B  
 LA1RN 147-7-7-A-1  
 LJ21 72-4-6-A-2

**BULGARIA**  
**Multi Single**  
 LZ2KKZ (multitop)  
 68,850-45-510-B

**FINLAND**  
**High Band**  
 OH2LU 9828-26-126-C  
 OH6JW 4968-23-72-C  
 OH6KN 660-10-22-C-2  
 OH7SC 384-8-16-C  
 OH5PA 90-5-6-C-1

**CZECHOSLOVAKIA**  
 OK1FAR 15,198-34-149-B  
 OK1AGN 10,323-31-111-B  
 OK3TCD 144-6-8-B-2

**Low Band**  
 OK1AWZ 2016-14-48-B

**High Band**  
 OK3EA 14,058-33-142-B  
 OK2KR 6696-16-77-B  
 OK2KR 3477-19-61-B-9  
 OK2BIH 336-7-16-A-2  
 OK1TW 198-6-11-A-2

**BELGIUM**  
**Low Band**  
 ON4LJ 8211-23-119-B

**High Band**  
 ON4XG 6600-25-88-A-8

**NETHERLANDS**  
**Multi Single**  
 PA9SMK (+PA9WRR)  
 85,635-55-519-C-29

**High Band**  
 PA5GIG/A 7458-22-113-C  
 PA0ATY 5103-27-63-A-14  
 PA9LEK 2028-13-52-B  
 PA9LFF 1755-9-35-C-5  
 PA9KFF 360-8-15-A-3

**SWEDEN**  
**High Band**  
 SM5BNZ 34,650-35-330-C  
 SM4DQE 18,426-37-166-C  
 SM2EKM 7050-25-94-B-6  
 SM6ATN 6498-25-98-C-5  
 SM4CGM 660-11-20-B-2  
 SM6EDH 480-10-16-C-5  
 SM5CAK 324-9-12-C-2  
 SM7TV 105-5-7-B-1

**POLAND**  
 SP9AI 11,049-29-127-C

**Multi Single**  
 SP9KRT (SP9s HMF ZU oprs)  
 3120-16-65-B  
 SP9PDF (SP6FIH, SP8ENO oprs)  
 2352-16-49-A

**High Band**  
 SP9FLY 3213-17-63-B

**GREECE**  
**High Band**  
 SV9WEE (WA4K5Q, opr)  
 11,544-26-148-C-48

**EUROPEAN RUSSIAN S.F.S.R.**  
**High Band**  
 UV3CE 3060-17-60-B  
 UA1EA 930-10-11-B  
 UA1IMU 897-13-23-B

**KALININGRADSK**  
**High Band**  
 UA2WJ 891-11-27-B

**LITHUANIA**  
**Multi Single**  
 UK2BAS (multitop)  
 18,891-37-171-B-12  
 UK2BBB (multitop)  
 11,856-26-152-B

**LATVIA**  
**Multi Single**  
 UK2GKW (multitop)  
 28,560-34-280-B

**UKRAINE**  
**Multi Single**  
 UK5MAF (UB5s MAK MDC, UY5LK, oprs)  
 15,624-31-168-B

**YUGOSLAVIA**  
 YU3EY 194,940-60-1083-C  
 YU2RNE 100,011-53-629-B

**High Band**  
 YU1BCD (YU1PCF, opr)  
 120,897-57-707-C-26  
 YU1AFL 3906-21-62-B-25

**MALTA**  
**High Band**  
 9H4G 1734-17-34-A-12

**North America**  
**BAHAMAS**  
 K6AJ/C6A 608,958-162-1253-A-15

**GUADELOUPE**  
 FG9BKZ (F6BBJ, opr)  
 504,336-158-1064-A-14

**DOMINICAN REPUBLIC**  
 HI8LC 16,848-52-108-C-6

**Low Band**  
 HI8MOG 448,077-133-1123-C-13

**HONDURAS**  
 K3HVH/HR6 463-710-130-1189-A-14

**ALASKA**  
 KL7GRP 33,696-36-312-C-28  
 AL7IDH 10,971-23-159-C-10

**PUERTO RICO**  
 KP4AST 7,560,450-318-7925-E  
 AJ4EAS 5,741,808-296-6466-E-73

**High Band**  
 KP4EJB 1,043,460-124-2805-C-45

**CANAL ZONE**  
 KZ5BC 4,433,247-273-5413-C-62

**SINT MAARTEN**  
**Multi Multi**  
 RJ8CO (K1s DQV LPA, W1YE WA2AUC oprs)  
 3,547,872-254-4656-C-48

**GUATEMALA**  
 VE2AQS/TG9 1,339,272-228-1958-B-22

**COSTA RICA**  
**High Band**  
 TI2WX 847,815-145-1949-A-12

**ANGUILLA**  
 VP2EEE (K2BPP, opr)  
 1,842,120-210-2924-A-30

**MONTSERRAT**  
**Multi Single**  
 VP2MEV (WB8SEV, WB9IWN oprs)  
 2,958,720-230-4288-C

**TURKS & CAICOS ISLANDS**  
 VP5DF 49,572-68-243-A-10

**BERMUDA**  
**Multi Single**  
 W1GNC/VP9 (+WB2CHO)  
 1,808,400-220-2740-A-48

**Low Band**  
 W4EV/VP9 713,241-129-1843-A-52

**MEXICO**  
 XE1LLS 3,713,769-261-4743-B  
 XE1YO 629,472-166-1264-A-20  
 XE1PF 348,390-105-1106-A-15

**High Band**  
 XE1EX 346,986-111-1042-C-21

**NICARAGUA**  
 YN1FVN 1,332,450-189-2350-B-32

<b>High Band</b> YNI1RWG 1,048,572-146-2394-B-44	<b>High Band</b> KG6JAR 1794- 13- 46-C- -	<b>NEW ZEALAND</b> ZL3GG 1,448,928-216-2236-A-63 ZL1BKX 1,188,450-190-2085-A-45 ZL2BCO 877,074-184-1507-A-49 ZL2HE 271,272-126- 712-A-46 ZL2ACP 48,240- 60- 268-A-6	<b>ECUADOR</b> HC1BU 1,889,850-215-2930-B- <b>Multi-Multi</b> HD5EE (HCs 1MM 2NW 5DP 5EE 5EJ 5LJ 5LM 5PC oprs) 3,285,150-242-4525-C-58	<b>NETHERLANDS ANTILLES</b> PJ9JT 2,399,400-248-3225-B- <b>BRAZIL</b> PY2CSS 40,650- 50- 271-C-10 <b>Low Band</b> PY2ELZ 38,106- 58- 219-C- PY2GWE 2508- 19- 44-C-10
<b>JAMAICA</b> WB9AJF/6Y5 3,791,644-268-4716-C-55 <b>Multi Single</b> W9NAR/6Y5 (+WA9ONK) 2,004,015-239-2795-A-48 6Y5ED (+6Y5FB) 1,861,401-201-3087-C-68	<b>HAWAII</b> KH6IJ 4,080,384-264-5152-C-76 KH6GQW 3,595,428-243-4932-C-96 AH6HML 2,509,296-244-3428-C-60 AH6BZF 1,946,700-225-2284-C-43 K4VWI/KH6 277,875- 95- 975-C-70 KH6IBX 277,632-128- 723-C-22	<b>Low Band</b> ZL1AGO 43,902- 54- 271-C- <b>High Band</b> ZL2GJ 31,050- 46- 225-B- ZL2AH 9858- 31- 106-A-36	<b>Low Band</b> K4ERO/HC1 423,096-122-1156-D-25 <b>COLOMBIA</b> HK3LT 220,590-114- 645-B-10 <b>ANTARCTICA</b> KC4AAC (WB6KIL, opr) 1,398,699-233-2001-C-19 <b>ARGENTINA</b> LU8AJG 2,945,880-245-4008-C- LU2A 2,593,500-250-3458-C-80 LU3HAK 742,671-179-1383-C-41	<b>High Band</b> PY2ELV 653,079-137-1589-A- PY4KL 567,243-149-1269-B- PY1FI 442,752-128-1153-C-19 PY1CHP 341,388-116- 981-B-25 PY1BAR 276,675-119- 775-C-41 PY7NY 200,043- 93- 717-C- PY2ZBG 81,807- 67- 407-C- PT2JB 16,524- 34- 162-A- 5 PY1BOL 15,840- 44- 120-C- 6 PY9UC/PY2 13,875- 37- 125-C- PY3CKL 504- 7- 24-C- 2
<b>Oceania</b> <b>NAURU</b> <b>Multi Single</b> C2INI (W6s KG DOD) 331,290-135- 818-B- <b>PHILIPPINE ISLANDS</b> DU6EG 1560- 13- 40-E- 9 <b>WESTERN CAROLINE ISLANDS</b> KC6AQ 36,855- 35- 351-C-30 <b>GUAM</b> KG6AAV (WA3HRV, opr) 91,455- 67- 455-C-20 <b>Low Band</b> KG6JFY 7650- 25- 102-C-	<b>High Band</b> KH6JAC 59,598- 66- 301-B- 4 <b>High Band</b> AH6IJA 299,592-114- 876-B-26 <b>AUSTRALIA</b> VK4VU 619,044-158-1306-A- <b>Low Band</b> VK3QI 21,462- 49- 146-B-20 <b>INDONESIA</b> <b>High Band</b> YB9ABV 162- 6- 9-B- 6 YB9ABX 132- 4- 11-B- 1	<b>FUJI ISLANDS</b> <b>Multi Single</b> 3D2KG (W6s KG DOD) 283,509-109- 867-B- <b>South America</b> <b>CHILE</b> <b>High Band</b> CE3UH 11,100- 37- 100- - <b>BOLIVIA</b> CPIAT 252,648-132- 638-B-17 <b>High Band</b> CP1EU/6 413,280-120-1148-B-16	<b>High Band</b> LU8AJG 2,945,880-245-4008-C- LU2A 2,593,500-250-3458-C-80 LU3HAK 742,671-179-1383-C-41 <b>High Band</b> LU1ADI 287,892-132- 727-A-26 <b>PERU</b> <b>High Band</b> OABV 231,210-105- 734-A-18 OA4ANR 116,388- 53- 732-B-	<b>VENEZUELA</b> YV4AGP 5,195,232-288-6013-C- YV1AVO 3,125,538-247-4218-B-71 <b>High Band</b> YV5BVF 173,259- 93- 621-B-22 <b>TRINIDAD &amp; TOBAGO</b> 9Y4AC (VE7BZC, opr) 441,048-136-1081-B-18

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U.S. working Europe or JA when we can't even hear 'em. The second weekend of the contest (cw) was a real ball though. Twenty meters was hot as a pistol, even with my modest 80 watts. —

(VE6CGS/K5ABV) Who said condx bad? I found somebody everywhere, everytime. — (I2FGP) Where was North Dakota? — (JA2JW) I got my kicks this time from the mixture of incredulous and complimentary remarks passed on the size of my 2-watt signal by the big

QRO boys. — (EI3CP) Interest by the U.S. stations in the special prefixes seems to be minimal! My check log shows a ratio of about 1 special prefix call for 8 normal U.S. calls on cw. — (G3TXF) The quality of the operating from the U.S. was to be heard to be believed — almost nil requests for repeats — and that was during heavy QRM and my sending text only once. Great job. — (VK2AR) Had only about 5 hours of operating time the first weekend, as things were extremely hectic with a ship at the dock and everyone preparing to leave. Was disappointed at conditions on ten meters the second weekend, as fifteen was excellent. Also sorry that eighty was so lousy, but I am working on my antennas. — (KC4AAC/WB6KIL) This is sort of a jubilee — 20 years ago I started taking part in the ARRL contest . . . I was amazed to find quite a lot of the original operators here again. The highest percentage of OTs were from W6 land. — (OK3EA) Still wondering what we did to deserve such good conditions. Fancy duping W7s on 80 meters. — (G4BUE) What happened to 40 meters? Somebody stole it? — (G4BTY) In 1975 we had 36 useable hours out of the 48; in 1976 we had only 29 useable hours. Useable hours mean the hours when U.S. signals could be heard at all. — (PA0SMK) I was at C3IME, Andorra, for the first weekend cw test, but one meter of snow in the mountains prevented me from reaching the planned operating site. Las Escaldas, surrounded by 6000-foot mountains, prevented any "W" QSOs and an effort to pack through the snow brought our attention to the dangers of being "snowed in." We exercised logic on the side of caution and retreated to the wine cellars and discos of Las Escaldas. — (C3IME/K7CBZ) Hope I was able to give a new one to at least a few of the W/VE stations in the contest, even if conditions were really poor from L. H. — (VK200/LH) QST

#### Affiliated Club Scores

CLUB	SCORE	ENTRIES	PHONE WINNER	CW WINNER
Frankford Radio Club(PA)(3)	44,495,310	84	W2HMH	W2GXD
Potomac Valley Radio Club (VA)(4)	40,160,775	76	W3LPL	W3LPL
Murphy's Marauders(CT)(1)	36,117,750	65	W1ZM	W1HFB
Northern California DX Club(CA)(6)	11,825,253	56	K6CQF	W6PAA
Wireless Institute of the Northeast(NJ)(2)	10,297,084	56	WB2RKK	K2BMI
Western Washington DX Club(WA)(7)	9,950,778	46	W7SFA	W7RM
Southern California DX Club(CA)(6)	9,663,582	21	W6HX	W6OUN
Northern California Contest Club(CA)(6)	6,860,300	22	W6YX	WB6KBK
San Diego DX Club(CA)(6)	4,609,317	23	WA6DNM	W6MAR
Richardson Wireless Klub(TX)(5)	4,290,216	14	K5VTA	K5VTA
Southern New England DX Club(MA)(1)	4,119,549	19	W5UDK/1	W1DAL
Texas DX Society(TX)(5)	4,090,449	10	K5PFL	W5WZQ
Indy DXers(IN)(9)	3,383,526	9	WA9BWW	AA9RJI
Order of Boiled Owls(NY)(2)	3,147,813	12	K2LE	K2LE
Northern Illinois DX Association(IL)(9)	2,803,224	14	AD9UKM	W9OHH
Central Virginia Contest Club(VA)(4)	2,727,021	15	W4ZSH	W4ZSH
Southeastern DX Club(GA)(4)	2,319,156	17	W4LVM	AD4BAI
Ohio Valley ARA(OH)(8)	2,221,812	20	WB8FOS	WB8RSW
Northern Alabama DX Club(AL)(4)	2,149,737	7	WB8FAW/4	WB8FAW/4
Eastern Iowa DX Association(IA)(0)	2,061,432	20	AC0FHE	W0PCO
Michigan DX Association(MI)(8)	1,977,489	8	W8TWA	K8IDE
Delta DX Association(LA)(5)	1,947,585	9	K5MYM	W5RTX
Arizona DX Club(AZ)(7)	1,800,942	7	WA7NFH	W7IR
South Jersey Radio Association((NJ)(2)	1,629,132	15	W2FGY	W2PAU
Lake Cook DX Association(IL)(9)	1,179,624	5	K9HMB	—
Alamo DX Amigos(TX)(5)	847,203	12	WB5HGS	W5LPO
Buffalo Area DX Club(NY)(2)	833,211	8	—	WB2FNS
Virginia Century Club(VA)(4)	824,190	5	WB4OXD	—
Columbus ARA(OH)(8)	765,831	10	WA8ZDF	W8ZCQ
North Florida DX Association(FL)(4)	732,963	4	AA4UFW	W4WHK
ARINC Amateur Radio Club(MD)(3)	669,918	16	W3GZP	W3TOS
Twin City DX Association(MN)(0)	345,387	3	—	W0YCR
Neenah-Menasha Amateur RC(WI)(9)	329,274	4	—	W9PJT
Connecticut Wireless Assoc.(CT)(1)	299,850	4	—	W1FTX
Charlotte Amateur Radio Club(NC)(4)	238,797	4	—	K4GFH
Lake Success Radio Club(NY)(2)	191,073	8	W2SGK	W2SGK
McDonnell Douglas Aeronautics ARC(CA)(6)	170,937	4	—	K6TXA
Poughkeepsie Amateur Radio Club(NY)(2)	151,764	3	W2HHC	—
Memphis Amateur Radio Assoc.(TN)(4)	124,083	4	—	WB4WFT
Kankakee Area Radio Society(IL)(9)	105,021	5	—	W9NLR
North Kentucky Amateur Radio Club(KY)(4)	104,454	3	—	—
Gloucester County ARC(NJ)(2)	48,564	4	—	—
Meriden Amateur Radio Club(CT)(1)	19,365	6	W1KKF	W1KKF
Chicago Radio Traffic Association(IL)(9)	14,430	6	W9REC	W9REC