Results of the 1962 CQ World-Wide DX (C.W.) Contest

BY FRANK ANZALONE*, W1WY

CONDITIONS for the c.w. week-end were a repetition of what we experienced a month earlier in the phone section. "Poor to fair" as George Jacobs put it in his contest post-mortem. "W3ASK's propagation forecast for below normal was right on the button," remarked W1UUK. Personally, we found them rather poor on 21 mc, with some fair openings to Europe in the morning, but the rest of the time we had to dig for everything we worked.

A look at some of the scores would indicate, however, that some of the fellows didn't have cause for complaint. Our own Don Miller took full advantage of his rare location and I'm sure it comes as no surprise to see HL9KH at the top of the totem pole. During one of the better periods on 20 he averaged 80 contacts per hour, and on 40 he was working the East Coast late in the afternoon. Fifteen was productive and 80 also added to his multiplier, but 10 was a complete wash-out.

With three element beams on 10, 15, and 20, three quarter-wave phased verticals on 40 and an extended zepp on 80 Don was well prepared for the brawl. Power (?) pair of 6146s. That's what the man said. So where do we send the Larry LeKashman, W9IOP Trophy, out there in Korea or back home in Chicago?

Next in line is 4X4KK, Micky Monastirsky, son of Sam, 4X4BX who was quite a contest man himself not too many years ago and has a trophy to prove it.

By way of equipment comparison Micky used a BC-610 and a Siemens receiver. Antenna farm, three elements on 14, dipoles on 3.5, 7 and 21 mc and a ground plane on 28. Not to forget that desirable geographical location.

And the third "Top Tener" to break a million was HK1QQ, operated by Dale Strieter, W4DQS. Equipment was the same as Herman used in the Phone contest, GSB-101, 75A-3, tri-band beam for the higher frequencies and trap inverted V for the lower bands. Dale's contact total is the highest ever made by a single operator. Unfortunately he didn't have the multiplier to back it up.

The call UT5AA might be a new one in contest circles but not the man behind the key. Leo was the chief operator on the team at UB5KAB, winner of the W3AOH Trophy back in 1960.

With the exception of W3GRF, W4DHZ and W4YHD who upheld the honors for the Potomac Valley, Virginia Century and the USA, the rest of the calls are new to the Top Ten but not in contest competition.

Missing this year was KH6IJ. It just didn't seem like the same contest without Nosey's rapid fire exchanges.

There was plenty of activity in the single band category with most of it and the top scores concentrated on the 14 mc band.

After many years of participation PY4OD finally came up with a winning combination and T. D'Angelo Drummond became the first Trophy winner for Brazil. The John Ryan, W7KVU Cup for the highest score on a single band will soon be on its way to you D'Angelo, congratulations.

An excellent performance was also turned in by Vic Clark (who else). W4KFC looked like a sure winner until we received PY4OD's log.

There were many other fine scores in six figures on 14 mc, among them and deserving special mention are UC2AA and ST2AR. Said Eric, "Conditions generally poor with periods of no signals but did better than anticipated."

Because of the lower m.u.f. the openings on 21 mc were of short duration and it was a mad scramble when the band was open. Missing this year was the ole perennial on 15 meters, W2WZ. Al was temporarily grounded and spent the prior week-end in the hospital. I thought I had a clear field in this one, only to have a new menace. W2HTI and my old rival W3LSG take me over the hurdles.

Evidently the openings over in Africa lasted a little longer because the only six figure scores

Don Miller, HL9KH, top all band single operator station for 1962. Don only had about a month to set up this lay-out.

*Contest Committee Chairman, *CQ*.

on 21 mc came from that area.

ZS6IW gave all bands a try but finally settled on 15 and came up with the highest score on the band. And 5N2JKO, Dr. Mike gave up his usual round the clock operating and settled for a single band so that he could get a little "shut eye."

Although 40 didn't produce the record breaking scores of last year it did create its usual activity. Surprisingly enough the high score is VK3AZZ. With only modest power and conventional antenna system for 7 mc Bob proved that it can be done from "Down Under." The Israel Amateur Radio Club please note, if you are still giving a Trophy for the highest score on 7 mc it goes to Robert J. Gray, VK3AZZ. 18 York St., Reservoir, Victoria.

Bob Martinez, K2DGT made his usual fine showing but the European openings were not as productive as last year and he ran short of contacts. Right now Bob's interests are in other fields and even a long path opening to the JA's wouldn't budge him. But don't relax fellows, I have a hunch DGT will be giving you guys the usual hard time come next November, his YL is very tolerant and understanding.

And speaking of YL's how about JA1YL's score on 7 mc. As I said fellows, just don't relax.

Once again most of the 80 meter activity came from Europe with OK1MG leading the pack by a close margin. Over here, W1BU and his superior antenna farm lead the boys on this side of the pond by a wide margin. This year the man at the key was Ralph, W1HGT.

Although the Single Band entries were few the All Banders used 3.5 to good advantage to fatten up their multiplier but "Oh, those long calls on 80," moaned Ed of the W3MSK crew.

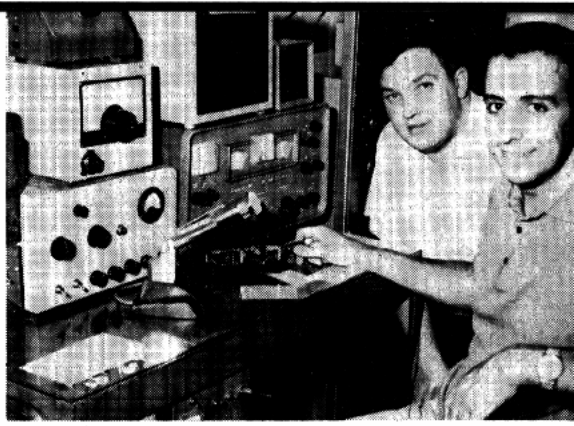
The Top Band enjoyed a good season this year and the few who concentrated on 160 in our contest finally had something to show for their efforts. W2FYT had 8 countries to his credit, nice going Tony. DL1FF will probably be disappointed to see DJ2KS ahead of him. Armin admits he fell asleep while Hans was taking advantage of a good opening on the band.

Ten meters? Forget it, the band was a total washout. Where HK7ZT dug up 65 contacts we don't know.

As in the past, the Multi-Operator Single Transmitter division was dominated by the European and USSR club stations, but it was an old familiar call down South America way that picks up the marbles. This year Ricardo Jr. took on a pardner, Daniel CX7CO. Add another Cup —the Tony Susen, W3AOH Trophy—to the Sierra collection.

It was not a runaway victory for them, the team at UA9KDP made an excellent showing. This is a new group organized by Vladimir, UA9DN also a Trophy winner as single operator the past two years.

The station that everybody was calling, HKØZU was a DX-pedition to San Andres by three members of the Florida DX Club, Ray



Daniel Sosa (CX7CO) and Ricardo Sierra, Jr. at the operating position of CX2CO, this year's winner in the multi-operator single transmitter division.

W4BJ, Bev W4CKB and Ed W4QVJ. Besides having a ball (they submitted a fantastic bar bill to prove it), the boys had the satisfaction of knocking off the most contacts ever made by any station in our contest.

The gang at LZ1KSV improved their score over last year and at the rate they are going they might still land on top one of these days.

Over here the most impressive score was turned in by W1BIH who teamed up with W1JYH to do it. A couple of years ago this duo copped the Trophy.

The club members of W3ADO at the U. S. Naval Academy got special permission which excused them from all week-end assignments and found the contest so exciting that they are planning bigger things for the next one. We had a station from the U. S. Air Force Academy, KØMIC in the phone contest. Now if we could stir up some activity up at West Point we could have an intraschool brawl.

The "Big Boys" had quite a time in their own section. A lot of fellows were wondering where 4X9HQ was located and took credit for a new country, but it was only a club station over in Israel, not just another station but a dream that Bruno, 4X4DH had planned for the past three years. During this time the club members had operated individually in contests and gained valuable experience. For months prior to the contest they had worked on week-ends equipping their Headquarter station 4X9HQ with 5 transmitting positions and 7 different antennas. "Finally this effort came to a climax during the contest," wrote Bruno, "and I hope the score speaks for itself." It sure does Bruno, your boys *and* YL proved what can be done by a properly organized Multi-Operator, Multi-Transmitter station. With that call and location, how could they miss? Dust off a place of honor for the Buzz Reeves, K2GL Trophy in your club room.

The gang at W3MSK again proved that it is the top Multi station over here and added substantially to the Potomac Valley score.

Over on the West Coast W6RW greatly improved its score over last year's. "The new start-

Herman Olarte, HK1QQ and Dale Strieter (W4DQS) who operated the station in the c.w. contest for the highest contact total by a single operator.

ing time is too early for the poor working man in California," complained Roger, so we don't know what to credit their improvement. The other Southern California power house, K6EVR added more operators to its crew so I guess that's the answer to their much higher score.

The German DX Team sent us a complete list of their membership and also an itemized list of the scores of the members that participated in the contest. With 69 stations out of a membership of 109 taking active part, and the Potomac Valley with a close score from their smaller membership, we had quite a job in checking out this one. But there is no question as to where we're sending the *CQ* Club Plaque, its across the sea to DL-land!

The Southern California gang took a giant step forward and made a very impressive showing, as did some of the other USA clubs who made substantial increases over previous years. That is, all except one; the once mighty North Jersey DX Association, who like the Roman Empire has grown lax and lazy and sunk to the depths of oblivion.

Our experiment of trying to increase activity in Central America and the Caribbean didn't work out. The reaction of the rule change of giving 2 points for contacts between stations in North America was about equally divided. W3JTC is very much against it, said Larry, "it didn't generate any more activity and now we can't make a comparison with our scores of previous years." Right you are on both counts Larry, maybe we had better forget the whole idea. Actually with the little activity south of the border it didn't do much to anyones score—except maybe HKØZU.

Well, that just about does it. With only three of us carrying the load it was a rough one this year. We've just got to educate the boys of the USSR and some of the other overseas countries how to keep and score a contest log. Some of you guys over here could stand a little prompting too. Especially when you have to be told by an overseas station that you're in Zone 4 or 5 and not the progressive numbers you keep sending. And those duplicate contacts, one of these days we are going to give out penalties for duplicates in excess of a prescribed percentage.

If you want to show your appreciation, give a vote of thanks to Andy, W1GYE and Ben, W2JB when you hear them on the air. They will probably be on more now that we have put this one to bed. As for me I don't care if I ever see another contest log, except maybe my own.

73 for now, Frank, W1WY

United States Club Scores

Potomac Valley Radio Club	**4,052,481**
Southern California DX Club	3,458,228
Florida DX Club	1,074,480
North Eastern DX Association	1,058,099
Virginia DX Club	869,178
Northern California DX Club	544,001
Ohio Valley Amateur Radio Ass'n	322,480
Nashua Mike and Key Club (N.H.)	293,673
U. S. Naval Academy	260,615
North Jersey DX Association	232,564
San Diego DX Club	200,312
West Gulf DX Club	197,790
Frankford Radio Club	84,560
Lockhead Radio Club (Calif.)	57,134
DX Club of QCWA (New York)	56,282
Willamette Valley DX Club	54,920
Boiled Owls of New Mexico	24,117
Brookhaven Amateur Radio Club (N.Y.)	9,072
U. S. Air Force Academy	8,624

Foreign Club Scores

Deutches DX Team	**4,200,192**
Uruguay DX Club	2,548,661
Central Radio Club of Czechoslovakia	1,892,928
Swiss DX Club	1,350,280
Radio Club of Sofia (Bulgaria)	757,393
Far East DX-ploiters (Japan)	725,220
SP DX Club (Poland)	344,096
Kharkov Radioclub DOSAAF (Ukraine)	217,919
Coral Isle Amateur Radio Club (Guam)	115,080
Warsaw Short Wave Radio Club	103,845
DX King Radio Club (Japan)	96,744
DM Contest Buro (East Germany)	79,971
Narodna Tehnika Radio Club (Yugoslavia)	52,555
Radioway DX Klub (Poland)	35,816
Okinawa Amateur Radio Club	32,821
Tiger Amateur Radio Club (Pakistan)	31,881
Japan DX Radio Club	25,185
Shizuoka Radio Club (Japan)	19,760
Wroclawski Radio Klub (Poland)	19,440
Keihanshin Radio Club (Japan)	14,706
Odawara Amateur Radio Club (Japan)	10,266
Kagoshima Radio Club (Japan)	10,229
Nikola Tesla Radio Klub (Yugoslavia)	10,065
Linkoing Radio Club (Sweden)	6,525
O.S.A. CW DX Club (Belgium)	5,586
Kanazawa Radio Club (Japan)	5,551
Radio Club of Gdansk (Poland)	5,043
Radio Club of Bacau (Roumania)	1,560

Top Ten

ALL BAND—SINGLE OPERATOR

HI9KH 1,142,748

4X4KK	1,039,724	UF6FB	721,112
HK1QQ	1,002,042	W3GRF	445,884
UT5AA	816,408	5A1TW	437,376
HC1DC	759,000	W4DHZ	436,322
	W4YHD 405,876		

Top Five

MULTI-OPERATOR SINGLE TRANSMITTER

CX2CO 1,103,721

UA9KDP	1,033,184	LZ1KSV	604,385
HKØZU	791,280	UA9KCA	456,351

Top Five

MULTI-OPERATOR MULTI-TRANSMITTER

4X9HQ 1,681,988

W3MSK	1,043,415	DJ3JZ	815,490
W6RW	820,725	K6EVR	763,569

Continental Leaders

SINGLE BAND

28 Mc		**7 Mc**	
HK7ZT	3,276	VK3AZZ	82,284
21 Mc		K2DGT	71,040
ZS61W	153,200	JA1YL	60,532
W2HTI	50,730	OK2KOJ	57,024
OK3DG	48,108	YV5ANT	34,476
JAØSU	27,156	**3.5 Mc**	
PY4BC	11,254	OK1MG	21,000
VK3RJ	1,664	W1BU	12,349
14 Mc		ZL2GS	1,417
PY4OD	**219,230**	JA2WB	990
W4KFC	187,142	**1.8 Mc**	
UC2AA	183,580	DJ2KS	2,576
ST2AR	166,635	W2FYT	416
VK5NQ	137,917		
JA1BWA	107,064		

U. S. A. Runners-up

All Band	K6VTQ	372,252
21 Mc	W3LSG	39,900
14 Mc	W4WDI	129,220
7 Mc	W6JZH/6	43,068
3.5 Mc	K6BPR	4,832
1.8 Mc	WØCDP	171

Number groups after call letters denote the following: Band (A-all), Final Score, Number of QSOs, Zones and Countries. Certificate winners are listed in **bold face.**

C. W. Results

SINGLE OPERATOR

North America

United States

W1FZ	**A**	**24,153**	**86**	**38**	**59**
W1ACB	"	13,534	70	23	44
W1UUK	"	12,040	64	31	39
W1PLJ	"	5125	43	17	24
W1AJG	"	2112	23	14	18
W1WY	**21**	**36,708**	**173**	**24**	**52**
KN1VSC	"	315	23	8	7
W1PIV	**14**	**88,181**	**278**	**28**	**81**
W1GYE	"	**48,616**	**164**	**30**	**73**
W1AGS	"	18,630	80	29	52
K1NHR	"	12,871	76	21	40
W1ZZK	"	12,660	73	19	41
K1OOJ	"	4576	52	13	19
K1RKH	"	1127	20	11	12
W1GVZ	"	518	14	6	8
W1JNV	"	442	12	6	7
K1SDX	**7**	**9550**	**73**	**21**	**29**
K1MLI	"	6762	50	21	28
W6KFV/1	"	4988	42	17	26
K1PMY	"	198	9	4	5
W1BU	**3.5**	**12,349**	**87**	**16**	**37**
WA2OJD	**A**	**145,550**	**254**	**76**	**129**
W2TVR	"	100,480	228	50	107
W2FZY	"	48,670	117	54	101
WA2IEK	"	38,936	122	55	69
K2CPR	"	16,038	71	47	52
W2GKZ	"	5886	42	25	29
W2JB	"	1850	26	10	15
W2JKH	"	1189	15	14	15
K2YFE	28	442	12	8	9
W2HTI	**21**	**50,730**	**201**	**25**	**64**
WA2CYQ	"	9163	68	19	30
W2BOK	**14**	**89,505**	**263**	**31**	**86**
K2UVU	"	41,496	158	29	62
K2EAC	"	21,350	109	24	46
K2UYG	"	18,873	85	27	54
W2MES	"	17,622	94	21	45
K2DGT	**7**	**71,040**	**257**	**29**	**67**
K2GL	"	43,670	169	28	63
W2FYT	**1.8**	**416**	**12**	**8**	**8**
W2EQS	"	80	23	4	4
W3GRF	**A**	**445,884**	**544**	**95**	**197**
W3QQL	"	83,592	187	62	100
W3FDH	"	39,790	128	46	69
W3ZKH	"	22,400	82	38	62
K3MNT	"	48	5	5	3
W3LSG	**21**	**39,900**	**199**	**22**	**48**
K3AIG	"	16,298	97	21	37
W3JTC	**14**	**106,848**	**290**	**31**	**95**
W3PZW	"	94,604	245	34	100
W3AFM	"	58,208	189	29	78
W3BYX	"	53,958	189	27	75
W3ZQ	"	11,781	71	23	40
W3VEQ	"	4326	40	18	24
K3EHM	"	1400	20	9	16
W4DHZ	**A**	**436,322**	**501**	**96**	**217**
W4YHD	**A**	**405,876**	**489**	**109**	**189**
K4LIQ	**A**	**97,632**	**234**	**52**	**92**
W4LVV	"	88,528	189	72	104
W4OPM	"	67,206	174	46	92
K4ORQ	"	51,948	161	43	74
W4LRN	"	38,280	118	49	71
W4ZYS	"	24,534	92	38	56
K4MXE	"	19,488	90	32	52
W4ZYQ	"	17,459	82	30	49
W4OM	"	14,170	74	22	43
W1EQ/4	"	8918	61	18	31
WA4DQM	"	7182	48	25	29
W4GF	"	5994	43	24	30
K4ADU	"	3354	30	18	25
K4JLD	"	2268	29	11	16
K4CXR	"	1350	20	12	18
W4DS	"	1325	18	12	13
W4OMW	"	1102	17	14	15
K4RQE	"	760	15	9	11
W4NTE	**21**	**5375**	**45**	**16**	**27**
W4EEO	"	792	12	10	12
W4KFC	**14**	**187,142**	**474**	**34**	**103**
W4WDI	**14**	**129,220**	**324**	**35**	**105**
W4JJL	"	92,354	261	31	91
W4SNU	"	52,371	186	27	72
W4AVY	"	20,777	95	27	52
W4YGY	"	17,877	106	19	40
K4BAI	"	12,312	76	22	35
K4ASU	"	7056	52	19	30
K4BE	"	3772	31	14	24
K4UVT	"	1092	18	8	13
W4CKD	**7**	**29,465**	**134**	**25**	**58**
W4CQR	"	7379	63	19	28
W4SHJ	**3.5**	**2054**	**32**	**11**	**15**
W5BRR	**A**	**142,923**	**255**	**83**	**130**
W5BUK	"	71,520	167	62	98
K5KBH	"	70,357	163	66	95
W5KKL	"	3315	32	17	22
K5UYF	**21**	**12,432**	**81**	**22**	**34**
K5SEK	"	4218	43	16	21
W5KC	**14**	**40,734**	**157**	**29**	**64**
W5NOP	"	38,279	135	32	69
W5PSB	**7**	**29,526**	**143**	**26**	**48**
K5DEG	"	11,816	80	22	34
K6VTQ	**A**	**372,252**	**493**	**102**	**166**
W6IBD	**A**	**294,176**	**447**	**89**	**143**
K6CTV	**A**	**282,529**	**476**	**83**	**128**
WA6IPY	"	224,924	396	73	124
W6KG	"	175,096	366	75	97
W6GRX	"	129,240	256	71	109
W6ISQ	"	112,391	243	69	98
W6MSM	"	80,772	255	40	66
W6FYM	"	68,552	173	68	84
WA6GFY	"	57,134	192	42	64
W6JFJ	"	55,692	160	47	72
W6UQQ	"	47,674	142	49	72
W6HVN	"	40,800	137	57	63
W6BVM	"	25,020	99	37	53
W6TYM	"	24,087	100	42	51
WA6WVR	"	21,141	98	34	47
W6CHV	"	19,125	80	37	48
K6ASL	"	19,000	75	38	57
WA6QAU	"	18,798	87	33	45
W6ID	"	18,564	67	41	61
W6ERS	"	17,280	82	32	48
W6NEX	"	16,425	77	31	42
K6TZX	"	14,740	83	27	40
K6HOR	"	11,984	73	22	34
W6FLT	"	7480	57	19	25
WA6OJM	"	4558	43	20	23
WA6VAT	"	3128	37	15	19
WA6GLD	"	2442	24	17	20
W6WAW	"	2310	23	15	20
W6BIL	"	1500	20	11	14
WA6DBC	28	45	3	2	3
WA6SBO	**21**	**27,200**	**150**	**23**	**45**
W6BSY	"	19,824	120	23	36
K6EIV	"	15,125	100	21	34
W6HJT	"	13,573	97	20	29
W6KUT	"	10,094	73	19	30
W6EPZ	**14**	**91,214**	**266**	**33**	**85**
W6KNE	"	32,417	148	25	52
W6QNM	"	30,102	121	27	61

WA6UHM	"	24,420	138	23	43
W6NJU	"	17,526	88	25	44
WA6OHJ	"	15,540	90	21	39
W6CYV	"	15,028	77	23	45
W6UQT	"	4042	36	18	25
WA6QGW	"	792	15	11	11
W6JZH/6	**7**	**43,068**	**204**	**28**	**46**
W6PQW	"	33,051	169	27	42
W6ILP	"	31,416	166	25	43
W6FOZ	"	17,980	108	22	36
K6IEC	"	15,548	105	20	32
W6ANN	"	6486	138	20	27
W6VNJ	"	5400	54	16	20
K6SXA	**3.5**	**6120**	**64**	**18**	**22**
K6BPR	"	4832	63	13	19
W7VY	**A**	**239,200**	**408**	**86**	**122**
W7PQE	"	123,255	279	67	99
W7DIS	"	34,608	130	44	59
W7MX	"	14,616	87	24	34
W7ENA	"	6808	51	20	26
W7DLR	"	640	11	9	11
W7BTH	14	480	11	7	9
W7JLU	**3.5**	**3690**	**52**	**13**	**17**
W8JIN	**A**	**267,090**	**332**	**104**	**186**
K8AEB	"	220	7	5	6
W8RQ	**21**	**18,492**	**97**	**25**	**42**
W8TTN	"	18,084	97	22	44
W8WBV	**14**	**49,373**	**180**	**30**	**67**
W8EW	"	6272	47	19	30
K8SWE	"	4472	37	16	27
W8MCC	"	242	8	5	6
W8FGX	**7**	**29,520**	**130**	**27**	**53**
W8BAR	"	9570	66	24	34
K8NMG	"	1798	24	14	17
W8AJW	**3.5**	**2323**	**48**	**10**	**13**
K8SQK	"	1534	29	11	15
W9EWC	**A**	**220,038**	**368**	**79**	**138**
W9IOP	"	112,496	242	65	113
W9ZB	"	19,691	81	42	55
W9CLH	"	7579	51	20	33
K9LVK	"	4592	36	26	30
W9GMS	"	1736	20	15	16
W9YYG	"	1518	20	15	18
K9LIO	**21**	**12,960**	**83**	**20**	**40**
W9JUV	"	6713	52	18	31
W9LKI	"	5874	51	18	29
K9IWS	"	308	8	7	7
W9IU	**14**	**65,090**	**199**	**31**	**84**
K9ZEL	"	41,088	155	30	66
K9DWG	"	1064	19	9	10
W9ERU	**7**	**10,726**	**65**	**25**	**37**
W9OKM	"	630	15	8	10
W9PNE	**3.5**	**2592**	**44**	**11**	**16**
WØDAE	**A**	**55,913**	**156**	**61**	**82**
WØGUV	"	18,042	83	42	55
KØJPL	"	2040	30	19	21
KØVSH	"	1363	20	13	16
WØTCX	**21**	**13,312**	**80**	**23**	**41**
KØODB	"	4017	38	17	22
WØAIH	"	2205	27	14	21
WØEQN	**14**	**15,502**	**93**	**23**	**39**
WØDU	"	15,257	75	24	49
WØCRY	"	250	9	5	5
WØCDP	**1.8**	**171**	**26**	**5**	**4**
WØVXO	"	153	13	5	4
		Alaska			
KL7DUZ	14	459	20	4	5
KL7JDO	**3.5**	**1188**	**67**	**5**	**4**
		Bermuda			
VP9BO	**7**	**11,169**	**325**	**8**	**9**
		Canada			
VE1YB	**21**	**2250**	**29**	**12**	**18**
VE2NV	**A**	**157,896**	**383**	**65**	**107**
VE2YU	"	94,402	251	66	88
VO2NA	"	6936	149	14	10
VE2UQ	**1.8**	**320**	**34**	**3**	**2**
VE3ES	**A**	**18,240**	**89**	**34**	**42**
VE3PV	"	12,342	122	26	25
VE3EBU	"	4068	49	17	19
VE3BMB	**21**	**4144**	**45**	**17**	**20**
VE3AU	**14**	**5513**	**54**	**14**	**23**
VE3AGX	**3.5**	**2814**	**63**	**9**	**12**
VE5KY	**14**	**3580**	**85**	**10**	**10**
VE7EH	**A**	**84,480**	**399**	**45**	**51**
VE7AKI	1.8	72	6	3	3
		Greenland			
OX3KC	**A**	**36,498**	**252**	**23**	**43**
		Mexico			
XE1VT	**A**	**13,560**	**241**	**16**	**14**
XE1RM	7	700	70	3	2
		Panama			
HP1AC	**A**	**11,456**	**177**	**17**	**15**
		Puerto Rico			
KP4CC	**A**	**40,369**	**226**	**35**	**44**

Africa

		Kenya			
VQ4IQ	**14**	**46,750**	**196**	**27**	**58**
		Kerguelen Is.			
FB8XX	**14**	**4551**	**41**	**15**	**26**
		Libya			
5A1TW	**A**	**437,376**	**749**	**58**	**146**
5A2TS	**21**	**25,543**	**211**	**12**	**29**
		Morocco			
CN8FE	**14**	**53,735**	**327**	**14**	**41**
		Mozambique			
CR7IZ	**A**	**29,580**	**156**	**28**	**40**
		Nigeria			
5N2JKO	**21**	**141,496**	**523**	**27**	**65**
		Rhodesia, Northern			
VQ2JG	**A**	**67,252**	**263**	**30**	**62**
VQ2W	**21**	**112,347**	**520**	**22**	**51**
VQ2EW	**14**	**67,782**	**301**	**26**	**53**
		Rhodesia, Southern			
ZE7JV	**A**	**64,480**	**240**	**33**	**47**
		South Africa			
ZS1O	**A**	**6138**	**70**	**16**	**15**
ZS2AT	"	168	6	6	6
ZS6IW	**21**	**153,200**	**520**	**28**	**72**
ZS2HI	**14**	**115,836**	**408**	**29**	**69**
		Sudan			
ST2AR	**14**	**166,635**	**503**	**33**	**82**
		Tanganyika			
5H3HZ	**14**	**40,223**	**210**	**26**	**47**
		Uganda			
5X5IU	**A**	**76,175**	**278**	**33**	**64**

Asia

		Aden			
VS9AAA	**A**	**172,080**	**476**	**47**	**97**
		Bahrein Is.			
MP4BDD	**A**	**18,056**	**108**	**20**	**41**
		Burma			
XZ2TH	**14**	**21,168**	**136**	**27**	**45**
		Ceylon			
4S7WP	**A**	**107,680**	**273**	**51**	**109**
4S7RN	21	1488	21	13	18
4S7NE	**14**	**15,318**	**92**	**27**	**42**
		Cyprus			
5B4WS	**A**	**123,360**	**368**	**34**	**86**
		Hong Kong			
VS6EC	**14**	**11,832**	**117**	**24**	**34**
		India			
VU2BK	**A**	**82,779**	**673**	**37**	**86**
VU2AJ	**14**	**49,800**	**280**	**24**	**51**
VU2CK	"	22,570	173	19	42
VU2TH	"	4300	44	17	26
		Israel			
4X4KK	**A**	**1,039,724**	**1286**	**78**	**206**
4X4LS	"	125,970	372	34	80
4X4BG	"	122,100	390	29	81
4X4MJ	"	36,437	149	31	52
		Korea			
HL9KH	**A**	**1,142,748**	**1554**	**103**	**221**
		Malaya			
9M2UF	**14**	**7626**	**116**	**16**	**25**
		Mongolia			
JT1AG	**14**	**1224**	**50**	**8**	**9**
		Ryukyu Is.			
KR6ML	**A**	**200,734**	**551**	**72**	**95**
KR6LJ	"	108,272	362	56	78
KR6NAA	**21**	**1026**	**45**	**9**	**9**
KR6BQ	**14**	**40,690**	**295**	**25**	**40**
		Pakistan			
AP5CP	**A**	**4374**	**57**	**24**	**30**
AP5AH	"	1056	25	14	18
AP5JA	**14**	**2890**	**51**	**12**	**22**
AP5SS	"	868	21	12	16
		Singapore			
VS1FJ	**A**	**138,112**	**407**	**63**	**103**
		Japan			
JA1VX	**A**	**320,943**	**584**	**79**	**124**
JA1BK	**A**	**255,285**	**529**	**68**	**115**
JA2AEY	**A**	**170,696**	**434**	**61**	**91**
JA7AD	"	112,320	320	52	78
JA3CUK	"	69,249	202	48	75
JA6ACZ	"	33,675	183	36	43
JA1EM	"	33,375	152	40	49
JA3BEA	"	21,924	109	38	49
JA2BDY	"	21,600	104	27	27
JA2TH	"	19,760	117	37	39
JA3UM	"	19,110	102	36	42
JA1CZG	"	17,850	130	29	41
JA4AS	"	17,775	107	31	44
JA3ASF	"	14,706	104	27	30
JA3ARX	"	13,992	99	32	34
JA6AKW	"	12,537	89	28	35
JA2CA	"	10,416	70	31	31
JA1CPM	"	10,266	79	26	32
JA1EFE	"	7315	86	18	17
JA8AAC	"	6660	68	20	25
JA1BYM	"	6642	58	26	28
JA3AVO	"	6400	60	27	23
JA8BY	"	3672	45	17	17
JA1CXW	"	3313	71	18	17
JA9NB	"	3115	37	17	18
JA9FB	"	2436	28	20	22
JA3CED	"	2432	38	19	19
JA2AXB	"	2185	36	12	11
JA2BIL	"	1944	33	13	11
JA5YAP	"	1444	43	11	8
JA1BUI	"	999	23	13	14
JA3HC	"	416	14	7	6
JAØSU	**21**	**27,156**	**176**	**27**	**35**
JA6PY	**21**	**25,160**	**148**	**22**	**46**
JA1ITX	"	20,862	140	23	34
JA3KM	"	20,696	149	20	32
JA7RH	"	13,431	132	17	20
JA1DFQ	"	11,439	109	18	23
JA8ADQ	"	11,430	101	20	25
JA1IRS	"	10,440	91	20	25
JA1JAT	"	9116	88	19	24
JA1CIB	"	3012	93	12	12
JA3BQU	"	1680	28	12	12
JA4AKL	"	1612	24	16	15
JA1HGY	"	1520	29	10	10
JA1IZ	"	1166	24	12	10
JA7OR	"	442	18	7	6
JA4AQR	"	418	15	6	5
JA1HJE	"	330	16	6	5
JA9UU	"	110	6	4	6
JA1BWA	**14**	**107,064**	**439**	**30**	**58**
JA8BI/1	**14**	**83,898**	**385**	**28**	**51**
JA2ANX	**14**	**36,072**	**197**	**28**	**44**
JA1BN	"	33,966	255	22	29
JA1BLC	"	27,720	169	28	42
JA2DN	"	25,185	142	26	43
JA3AA	"	12,993	88	26	35
JA4AOE	"	12,550	109	22	28
JA6PN	"	11,904	111	19	29
JA8GR	"	10,340	91	20	27
JA6ZV	"	9487	83	23	30
JA1IFP	"	7988	102	19	19
JA6JU	"	7128	85	18	24
JA2BGT	"	5280	68	14	16
JA6HW	"	4520	55	18	22
JA1BEE	"	3990	53	15	15
JA8FO	"	3060	55	16	20
JA1HOM	"	2912	56	11	15
JA2LA	"	2160	44	11	13
JA1YDU	"	1460	36	9	11
JA3DWC	"	1080	35	9	11
JA1AIU	"	795	30	7	8
JA1CJN	"	736	24	7	9
JA3ART	"	338	10	6	7
JA8BB	"	132	6	5	6
JA1YL	**7**	**60,532**	**310**	**28**	**46**
JA1ISB	**7**	**22,828**	**165**	**22**	**30**
JA8LN	**7**	**21,040**	**146**	**23**	**35**
JA8AJS	"	16,362	129	23	31
JA2XW	"	10,880	118	15	25
JA1SA	"	10,608	110	18	21
JA3DAZ	"	8643	86	18	25
JA3DDG	"	7210	83	15	20
JA3CAF	"	6293	84	15	16
JA7AKQ	"	5882	72	16	18

JAØAHF	"	2620	58	9	11
JA7IBX	"	2340	51	9	20
JA1CXC	"	2289	46	10	11
JA4YC	"	1944	31	12	15
JA1HLR	"	1140	30	9	10
JA8AER	"	736	20	8	8
JA1CUM	"	225	16	5	4
JA3YBQ	"	88	8	5	6
JA2WB	**3.5**	**990**	**28**	**8**	**7**
JA1EL	"	99	9	4	5
JA7ADV	"	10	4	2	3

U.S.S.R.

Armenia

UG6AW	14	330	10	3	8

Asiatic

UA9CH	**A**	**144,256**	**538**	**44**	**117**
UA9WL	"	137,835	392	38	97
UA9WS	"	98,098	389	23	75
UA9FH	"	24,180	151	19	46
UA9JL	"	16,569	116	22	41
UA9FM	"	12,740	81	24	46
UA9OC	"	11,096	144	12	26
UA9FA	"	4704	72	9	23
UA9BZ	**14**	**75,112**	**352**	**18**	**64**
UA9WJ	"	36,094	208	14	50
UA9OB	"	12,466	121	16	30
UA9JH	"	10,668	104	11	31
UA9SB	"	8995	92	7	28
UA9FO	"	3266	58	6	18
UA9KUA	"	1935	43	6	9
UA9FV	"	1173	23	3	14
UA9XG	"	1100	25	9	16
UAØSK	**A**	**190,847**	**590**	**46**	**93**
UAØAFF	"	39,321	346	21	27
UAØGF	"	31,006	286	34	37
UAØEK	"	27,240	243	26	34
UAØLS	"	19,224	272	35	32
UAØLL	"	11,565	96	19	27
UAØJU	"	6204	112	15	18
UAØMF	"	2059	52	14	15
UAØMK	"	1022	66	8	6
UAØSH	**14**	**5850**	**110**	**8**	**22**
UAØVW	"	2346	77	9	14
UAØBP	**7**	**20,008**	**168**	**18**	**43**

Azerbaijan

UD6AM	**A**	**35,900**	**172**	**33**	**67**
UD6AX	"	25,380	160	17	43
UD6GW	"	3922	43	15	22

Georgia

UF6FB	**A**	**721,112**	**793**	**94**	**232**
UF6AU	**14**	**33,750**	**227**	**15**	**39**

Kazakh

UL7FA	**A**	**127,324**	**407**	**44**	**95**
UL7CH	"	24,380	168	17	36
UL7AW	"	15,189	91	20	41
UL7HT	"	5402	79	13	24
UL7LA	**14**	**31,349**	**234**	**12**	**35**
UL7LE	7	1806	36	7	14

Turkoman

UH8BO	**A**	**23,572**	**139**	**23**	**47**
UH8DA	**21**	**4640**	**55**	**10**	**22**

Usbek

UI8LB	**A**	**101,088**	**356**	**28**	**76**
UI8FB	**14**	**29,974**	**193**	**19**	**47**
UI8AG	"	2376	36	8	19

Europe

Aland Is.

OHØNI	**A**	**2016**	**60**	**11**	**25**

Austria

OE1RZ	**A**	**189,924**	**380**	**74**	**154**
OE3TL	**7**	**14,508**	**174**	**15**	**47**
OE3LI	"	8037	139	10	37
OE1WO	**3.5**	**6150**	**141**	**9**	**32**

Belgium

ON4EC	**A**	**84,624**	**515**	**33**	**96**
ON5AX	"	18,352	197	20	54
ON4XG	"	18,172	143	26	51
ON4CE	**21**	**972**	**25**	**7**	**11**
ON4QJ	**7**	**5586**	**126**	**7**	**31**

Bulgaria

LZ2KKZ	**A**	**33,201**	**357**	**20**	**73**
LZ1AG	**14**	**41,207**	**320**	**24**	**65**

Corsica

F2CB/FC	**A**	**15,990**	**214**	**16**	**49**

Leo Yailenko, UT5AA leading all band scorer for Europe. Note the W3AOH Trophy won by UB5KAB in 1960.

Crete

SVØWZ	**A**	**29,716**	**280**	**23**	**69**

Czechoslovakia

OK1ZL	**A**	**299,455**	**689**	**80**	**189**
OK1GT	**A**	**219,912**	**524**	**69**	**162**
OK3AL	**A**	**211,703**	**703**	**53**	**157**
OK3CAG	"	53,172	352	34	92
OK3IR	"	48,396	368	24	85
OK1SV	"	47,614	195	47	86
OK2ABU	"	22,008	181	24	64
OK2KFK	"	21,894	188	29	60
OK3CDP	"	19,762	212	18	64
OK2QR	"	19,465	155	27	58
OK1JX	"	18,333	122	30	67
OK2BBJ	"	17,974	134	28	58
OK1OO	"	16,632	131	25	59
OK3CAO	"	15,616	203	15	46
OK2LN	"	12,460	147	21	68
OK1KRF	"	11,210	153	14	45
OK2KMB	"	10,902	190	10	36
OK1ZW	"	9504	93	21	45
OK2LL	"	4048	49	13	31
OK1KAY	"	2848	80	8	24
OK2BCA	"	1254	30	13	20
OK3DG	**21**	**48,108**	**236**	**27**	**49**
OK1GA	"	14,384	86	24	38
OK1KCD	"	2958	36	13	16
OK2EI	**14**	**63,072**	**378**	**29**	**67**
OK1AVD	**14**	**54,236**	**335**	**29**	**62**
OK1VB	"	36,520	234	26	57
OK3OM	"	36,182	268	21	58
OK1PG	"	22,914	216	21	46
OK1DK	"	17,556	200	17	40
OK1MP	"	13,680	90	21	51
OK1ADM	"	12,528	126	16	42
OK1AVT	"	10,516	150	13	31
OK1TW	"	3480	76	11	19
OK1AAZ	"	221	17	4	9
OK2KOJ	**7**	**57,024**	**475**	**19**	**62**
OK3UI	**7**	**47,580**	**471**	**18**	**60**
OK1BY	"	42,332	362	20	56
OK1KB	"	16,128	221	12	44
OK2KMR	"	14,148	209	12	42
OK2QX	"	11,495	165	12	43
OK3SL	"	11,362	218	10	36
OK1RX	"	9890	196	11	35
OK2BBI	"	6348	105	11	35
OK3KJH	"	4278	61	10	36
OK1MG	**3.5**	**21,000**	**355**	**8**	**42**
OK3EA	**3.5**	**20,304**	**380**	**9**	**38**
OK2KGZ	**3.5**	**14,523**	**283**	**8**	**39**
OK1FV	"	9460	183	8	36
OK1IQ	"	7696	195	6	31
OK1EV	"	6475	200	6	29
OK1AAE	"	5180	139	7	30
OK3CED	"	5134	153	6	28
OK1AFW	"	2852	89	5	26
OK2KAJ	"	2380	82	4	24
OK3CDY	"	2128	77	5	23
OK2BKV/1	"	1914	52	6	27
OK1AGM	"	1608	67	4	20
OK2BCI	"	1750	69	4	21
OK2BAN	"	1350	59	5	20
OK3CEC	"	1220	61	5	15
OK2BCN	"	1173	45	5	18
OK2BDY	"	1104	48	5	19
OK3CEG	"	798	52	4	15
OK1KRX	"	480	32	4	11
OK2BEC	"	468	24	5	13
OK1AFY	"	330	22	4	11
OK1KIG	"	170	27	3	7
OK1OW	"	120	17	3	5
OK2KOF	"	96	12	3	5
OK1WT	**1.8**	**1644**	**149**	**3**	**9**
OK1AAI	"	816	88	3	9
OK1AMS	"	676	60	4	9
OK1KNG	"	24	4	2	4

Denmark

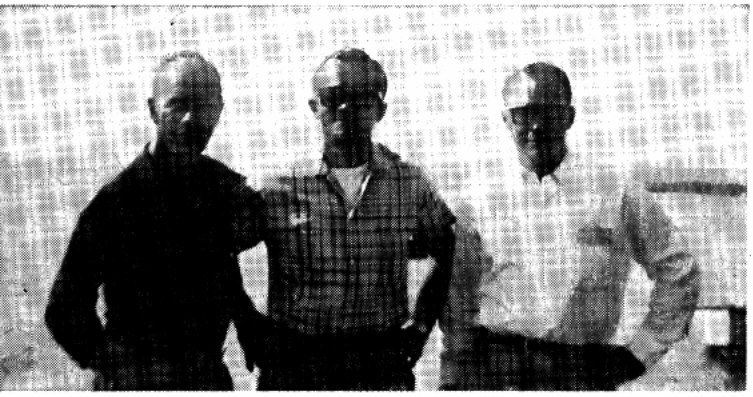
OZ4RT	**A**	**55,760**	**275**	**39**	**97**
OZ4H	"	13,908	116	28	48
OZ9QM	"	11,033	155	17	42
OZ3LI	"	6592	81	21	43
OZ5DX	"	3300	56	12	21
OZ5MF	"	1802	32	14	20
OZ4DX	"	945	43	5	16
OZ7G	**21**	**4025**	**47**	**14**	**21**
OZ9FH	**14**	**17,355**	**162**	**18**	**47**
OZ7YH	**7**	**4862**	**137**	**5**	**29**
OZ1LO	3.5	525	35	3	12

England

G2DC	**A**	**157,170**	**408**	**52**	**134**
G3DYY	**A**	**57,057**	**265**	**44**	**99**
G6VC	"	33,939	210	26	55
G3FTQ	"	21,762	162	26	67
G3JKY	"	19,320	154	25	59
G3GJQ	"	16,502	144	22	52
G3MGL	"	13,110	180	15	54
G3PVS	"	12,383	129	17	44
G2NH	"	11,016	136	21	47
G3JVJ	"	10,795	88	27	58
G3MWZ	"	8460	79	24	36
G3JFY	"	2923	61	10	27
G4CP	**14**	**102,600**	**480**	**27**	**68**
G3HDA	"	69,468	407	25	59
G2AJB	"	18,966	209	18	40
G3MEA	"	9400	132	13	34
G8DI	"	5180	108	9	28
G3WP	"	1827	45	7	22
G2KW	"	576	26	5	11
G3EYN	**7**	**16,701**	**260**	**12**	**45**
G3ORB	**3.5**	**1541**	**78**	**5**	**18**
G3IGW	**1.8**	**1098**	**57**	**5**	**13**
G5MP	"	448	33	3	11

Finland

OH2BZ	**A**	**56,763**	**252**	**44**	**115**
OH2AA	**A**	**48,951**	**218**	**39**	**108**
OH2RZ	"	37,944	214	42	82
OH2DP	"	36,096	208	33	95
OH2BAI	"	13,920	108	26	70
OH2ND	"	9380	111	16	54
OH3NY	"	9288	148	11	43
OH2VZ	"	5439	75	13	36
OH3TQ	"	5073	72	17	40
OH5UQ	"	4116	56	13	29
OH9RI	"	1617	45	10	23
OH9RF	"	1550	48	8	23
OH2YL	"	1426	32	13	18
OH1VR	"	1271	35	10	21
OH1WH	"	208	10	7	9
OH2RD	"	50	6	4	6
OH5UX	"	48	6	4	4
OH1TY	"	10	5	5	5
OH1TN	**21**	**11,907**	**85**	**21**	**42**
OH3NS	"	5123	50	15	32
OH9RC	"	1029	53	5	16
OH2BC	**14**	**27,456**	**211**	**22**	**56**
OH2QV	"	24,975	199	23	52
OH5TS	"	15,345	190	14	41
OH3UO	"	9024	131	12	35
OH2WI	"	7728	118	12	36
OH2FT	"	4290	93	8	31
OH2XF	"	2822	57	8	26



The boys who manned HKØZU, Ray W4BJ, Ed W4QVJ and Bev W4CKB all from the Florida DX Club.

OH3PX	"	1690	53	6	20
OH9QU	"	780	28	6	14
OH2EW	**7**	**18,356**	**294**	**11**	**41**
OH7NF	"	15,741	228	14	39
OH1VA	"	2773	36	12	35
OH5PG	"	16	4	2	2
OH2UQ	**3.5**	**9200**	**217**	**7**	**33**
OH6TM/2	"	1705	44	6	25

France

F8TM	**A**	**72,900**	**292**	**46**	**104**
F8IH	"	67,192	214	49	99
F2PO	"	46,580	307	26	59
F3PK	"	26,950	162	50	27
F9BB	"	4,995	63	15	22
F2MA	**21**	**29,829**	**190**	**22**	**39**
F8VO	"	1364	26	9	13
F3BX	14	403	20	4	9

Germany

DJ1PN	**A**	**140,456**	**388**	**58**	**136**
DJ7IK	**A**	**123,930**	**447**	**53**	**117**
DJ4DN	**A**	**122,537**	**400**	**55**	**126**
DJ2HH	**A**	**120,150**	**357**	**58**	**120**
DJ5JH	"	87,975	381	38	115
DJ3KR	"	86,984	275	55	111
DL7AA	"	86,500	189	59	114
DJ5BV	"	85,162	293	48	106
DM2ATL	"	67,268	351	37	97
DL1JF	"	63,048	256	43	99
DJ5GG	"	60,390	218	43	79
DL7DF	"	54,720	182	49	103
DL7BQ	"	49,200	254	40	83
DL7CS	"	44,450	131	48	79
DL1BO	"	42,672	185	40	72
DL3TW	"	42,245	173	39	80
DJ5IW	"	28,012	128	44	50
DJ2MG	"	26,316	139	39	63
DM2AVL	"	21,560	131	34	64
DL1XS	"	20,056	115	33	59
DL8FR	"	18,746	154	31	60
DJ1UE	"	18,414	136	26	67
DJ2HI	"	18,340	134	26	44
DJ5DA	"	17,901	167	19	62
DJ3YU	"	14,823	104	29	52
DL7CF	"	14,104	125	21	65
DJ4VO	"	12,848	119	18	55
DL9PU	"	12,489	111	25	44
DL8DL	"	10,863	149	17	54
DL6OS	"	10,296	111	21	51
DL1IA	"	10,152	90	24	48
DM3PBM	"	6765	123	21	34
DL1OW	"	6478	120	17	24
DJ3BB	"	6210	90	16	53
DM3VBM	"	6210	115	16	30
DL1EA	"	5684	43	24	34
DJ3WP	"	3354	36	18	25
DL1QT	"	2814	39	16	26
DL6EN	**21**	**48,067**	**237**	**27**	**44**
DL3ZI	"	22,336	131	22	42
DL6DF	"	9585	82	26	19
DJ2DG	"	7260	61	18	26
DL1ES	"	2220	31	11	19
DJ4HR	"	624	15	8	8
DM2AMG	"	416	10	8	8
DJ2RE	**14**	**43,168**	**298**	**21**	**50**
DL3BK	"	30,174	145	30	64
DJØIK	"	24,817	173	25	58
DM3PVL	"	21,696	205	20	44
DJ5VQ	"	20,400	207	18	42
DJ3WU	"	7998	121	13	30
DL6KC	"	7990	111	11	36
DJ2EL	"	2268	62	7	21
DJ3GY	"	1920	32	12	20
DJ2YA	**7**	**23,985**	**302**	**14**	**51**
DJ1ZN	"	10,388	186	14	39
DL1KS	"	10,314	142	13	41
DL1JW	**3.5**	**19,488**	**269**	**12**	**44**
DJ3WE	"	18,717	307	10	41
DJ2SX	"	7437	163	7	30
DJ2KS	**1.8**	**2576**	**190**	**4**	**10**
DL1FF	"	2159	121	5	12
DL1KB	"	296	40	3	5
DL1YA	"	16	6	2	2
DL5IA	**A**	**4017**	**96**	**9**	**30**
DL5DU	**14**	**7008**	**76**	**15**	**33**
DL4FT	**7**	**8610**	**173**	**9**	**32**

Hungary

HA6NI	**A**	**66,025**	**301**	**39**	**96**
HA1SD	"	26,860	276	22	57
HA7PM	"	6600	152	10	34
HA1SB	"	4608	89	12	36
HA1VA	"	1352	50	9	17
HA5BI	21	1792	25	13	15
HA5DY	**7**	**1365**	**66**	**5**	**16**
HA5BJ	"	190	19	4	6

Iceland

TF3AB	**A**	**16,650**	**169**	**15**	**35**

Ireland

EI5AJ	**14**	**59,128**	**455**	**21**	**55**

Italy

I1GO	**A**	**52,942**	**383**	**30**	**73**
I1WSG	"	540	24	18	30
I1ER	"	248	11	5	3

Madeira Is.

CT3AV	**A**	**33,198**	**174**	**24**	**42**

Netherlands

PAØLOU	**A**	**18,060**	**125**	**29**	**57**
PAØWAC	"	7072	64	21	31
PAØYN	"	3572	70	11	36
PAØNIR	"	2484	36	15	21
PAØHY	"	476	22	7	10
PAØSNG	**14**	**8473**	**160**	**10**	**27**
PAØNW	"	1400	53	5	20
PAØVB	**3.5**	**12,427**	**234**	**7**	**36**
PAØLV	"	11,362	272	6	32

Northern Ireland

GI3OLJ	**A**	**5358**	**58**	**18**	**39**
GI3OTV	**14**	**9956**	**191**	**10**	**28**

Norway

LA5HE	**A**	**53,193**	**171**	**48**	**101**
LA6U	"	21,060	87	29	61
LA2Q	"	12,702	153	19	54
LA4LG	"	9729	104	23	46
LA3UF	**14**	**3952**	**76**	**8**	**30**
LA2LI	**7**	**1320**	**67**	**4**	**16**

Poland

SP6FZ	**A**	**141,768**	**479**	**56**	**123**
SP5ADZ	**A**	**104,542**	**449**	**43**	**124**
SP5AFL	"	104,490	445	42	119
SP8YA	"	79,794	405	40	103
SP3KET	"	35,816	361	20	68
SP5AKG	"	20,382	135	26	60
SP6WM	"	19,440	172	28	52
SP6UK	"	2982	64	12	30
SP9AGS	"	1288	35	8	20
SP6LK	"	1025	42	8	17
SP2TG	"	620	20	6	11
SP5AHZ	"	306	10	8	9
SP9RF	**21**	**20,468**	**108**	**26**	**42**
SP5YC	"	8996	62	21	31
SP5ZA	"	7456	57	18	31
SP5AIB	"	6960	54	21	28
SP3PK	"	2291	27	14	15
SP2AAC	"	2268	27	9	15
SP8HT	**14**	**45,069**	**344**	**23**	**60**
SP5AIM	**14**	**24,548**	**193**	**20**	**48**
SP2AEL	"	6660	107	12	28
SP8AG	"	5530	112	8	27
SP5AHW	"	4320	68	9	31
SP3KCC	"	4191	83	9	24
SP2AJO	"	4085	55	12	31
SP8ABQ	"	2720	57	8	24
SP9ADU	"	2409	56	9	24
SP2JS	"	2100	35	7	21
SP8CP	**7**	**18,176**	**203**	**14**	**50**
SP5ALG	"	12,740	203	10	42
SP8MJ	"	11,664	207	8	40
SP4TW	"	7140	190	7	28
SP2CO	"	5520	110	9	31
SP2RS	"	5043	99	7	34
SP4KAI	"	4480	100	7	28
SP5AHQ	**3.5**	**17,952**	**390**	**8**	**36**
SP6BZ	"	6810	227	4	26
SP8HR	"	4264	168	5	21
SP9AMA	"	2996	103	5	23
SP9DH	"	1311	60	4	19
SP6KBR	"	1080	54	5	15
SP8APV	"	480	38	4	11
SP9AAB	"	225	27	3	6

Roumania

Y02BU	**A**	**75,692**	**484**	**31**	**96**
Y08DD	"	31,004	259	22	70
Y02BQ	"	30,738	217	32	77
Y02BA	"	9639	133	16	47
Y06EY	"	4305	106	13	28
Y08ME	"	1288	43	8	20
Y03AC	**7**	**12,036**	**192**	**11**	**40**
Y07DO	**7**	**8208**	**110**	**12**	**42**
Y04CT	"	3492	86	7	29
Y03JV	"	2106	70	6	27
Y02IS	"	1656	49	5	19
Y08KAN	"	1560	58	6	18
Y06SD	"	1288	56	5	18
Y04SA	"	1176	40	6	18
Y03JW	"	779	48	4	13
Y09HI	"	450	31	4	11
Y08AP	**3.5**	**10,491**	**210**	**7**	**32**
Y08HG	"	324	19	5	13

Scotland

GM3EOJ	**A**	**35,750**	**211**	**31**	**79**
GM3JDR	**14**	**32,430**	**345**	**19**	**50**

Sicily

IT1TAI	**A**	**233,289**	**699**	**57**	**150**
IT1AGA	**7**	**6474**	**140**	**8**	**31**

Sweden

SM5BLA	**A**	**317,580**	**864**	**62**	**175**
SM3TW	**A**	**65,436**	**361**	**38**	**95**
SM5CEU	**A**	**53,710**	**219**	**39**	**92**
SM5CCE	"	52,895	163	46	103
SM6CJK	"	25,812	177	32	76
SM5BDY	"	22,487	143	34	79
SM5CZK	"	18,040	184	20	62
SM6APH	"	16,683	192	17	66
SM2ALU	"	15,946	159	18	49
SM5DUB	"	15,180	162	26	66
SM6DED	"	13,950	227	10	52
SM5BRS	"	12,960	105	24	57
SM6ARH	"	12,267	107	26	61
SM6CAW	"	11,616	156	16	50
SM5CON	"	9240	167	10	45
SM5CMG	"	8122	109	16	46
SM5UQ	"	6958	120	12	37
SM5AJR	"	6528	53	24	40
SM7TV	"	5145	65	16	33
SM5AWF	"	3936	47	18	30
SM5AFE	"	3000	62	13	27
SM5CAK	"	1740	48	9	20
SM5BBC	"	828	14	10	13
SM7MS	"	288	10	7	9
SM2CXU	"	247	16	8	11
SM5BFR	"	230	11	5	5
SM5BOH	"	216	12	5	7
SM5KV	**21**	**12,810**	**91**	**20**	**41**
SM5AHW	**14**	**17,215**	**180**	**15**	**40**
SM3CNN	"	11,128	148	13	39
SM5AIQ	"	5680	104	9	31

SM6BEU	"	5565	65	14	39
SM5BEI	"	3600	79	8	28
SM1CXE	"	2325	83	5	20
SM6CDO	"	2250	40	10	20
SM5CXF	**7**	**10,560**	**193**	**10**	**38**
SL2CU	**7**	**5952**	**182**	**7**	**24**
SM7DRB	"	5005	141	5	30
SM6BWQ	"	3904	119	5	27
SM5CCT	"	3277	100	5	5
SM5ARQ	"	2581	82	5	24
SM5LW	"	1250	43	5	20
SM4CLR	"	528	21	5	17
SM5BTX	"	300	20	4	11
SM4DRD	"	182	15	3	11
SM5MX	**3.5**	**3364**	**108**	**6**	**23**
SM6JY	"	266	20	3	11

Switzerland

HB9JG	**A**	**245,834**	**468**	**63**	**139**
HB9KO	"	146,216	422	56	140
HB9ZY	"	118,770	286	60	125
HB9NL	"	113,176	301	56	116
HB9MO	"	93,050	310	49	123
HB9HK	"	34,170	216	26	41
HB9UD	"	21,012	122	34	68
HB9QO	"	14,706	108	31	55
HB9DX	**21**	**10,434**	**81**	**19**	**28**
HB9QA	**1.8**	**996**	**83**	**3**	**9**

Yugoslavia

YU3IE	**A**	**14,552**	**128**	**23**	**45**
YU3BU	"	572	27	8	14
YU3FZ	**21**	**5160**	**64**	**13**	**17**
YU1SF	**7**	**9632**	**224**	**7**	**36**
YU1SJ	"	6040	124	7	33
YU3JS	"	1872	62	5	21
YU4FDE	"	1650	62	6	19

U.S.S.R.
Estonia

UR2AT	**A**	**100,430**	**420**	**45**	**121**

European

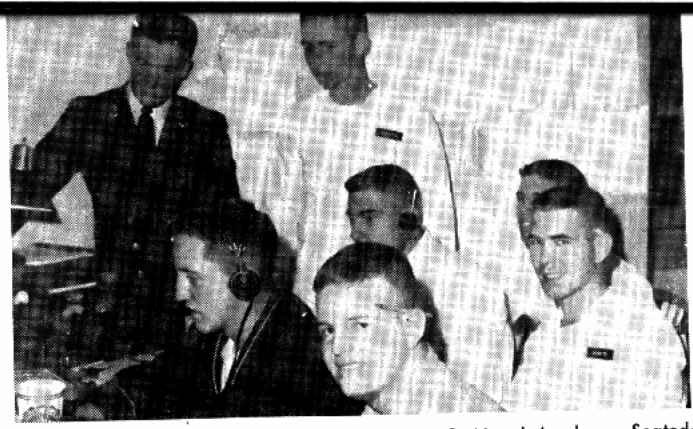
UA4LE	**A**	**204,590**	**642**	**51**	**154**
UA3XS	**A**	**60,564**	**476**	**25**	**78**
UA1DH	**A**	**60,078**	**323**	**29**	**85**
UA1NA	"	58,320	281	34	101
UA6LI	"	43,992	443	20	52
UA3HK	"	25,300	134	36	74
UA1TL	"	20,002	199	18	55
UA3TA	"	16,320	123	26	59
UA3QV	"	10,556	93	16	42
UA3QI	"	10,065	137	15	40
UA4PZ	"	4961	90	8	33
UA3LR	"	4242	76	11	31
UA3FT	"	4214	99	10	33
UA3GP	"	3640	97	10	25
UA1CC	"	3504	47	15	33
UA1DG	"	2856	73	9	25
UA4NM	"	2387	58	8	23
UA3KLA	"	1674	50	7	20
UA3JD	"	1540	39	10	18
UA3GO	"	1064	31	10	18
UA1PH	"	456	16	6	13
UA6FD	**21**	**3666**	**67**	**12**	**27**
UA1MA	"	3115	43	13	22
UA4PA	**14**	**75,608**	**441**	**28**	**76**
UA4IF	**14**	**60,048**	**279**	**31**	**77**
UW3UF	"	53,424	387	25	59
UA4CN	"	11,546	120	14	50
UA3SG	"	8510	109	11	35
UA1CI	"	7056	123	8	28
UV3TC	"	4956	100	12	30
UA1KBR	"	4662	70	12	30
UA3TP	"	4641	77	11	28
UW3BX	"	3075	126	6	19
UA4IK	"	3010	68	7	28
UA3WX	"	1025	34	8	17
UA3IL	"	714	24	7	14
UA1ND	"	672	26	6	15
UA4QD	"	299	11	6	7
UA1LG	"	243	10	3	6
UA6FL	**7**	**13,340**	**268**	**8**	**38**
UA6MK	"	9840	178	9	31
UA1FI	"	4824	108	8	28
UA3OI	"	216	16	3	6
UA1DZ	**3.5**	**18,126**	**286**	**11**	**42**
UA1CE	"	4247	124	5	26

Latvia

UQ2AB	**A**	**64,083**	**388**	**29**	**94**
UQ2CC	"	18,300	214	17	58
UQ2KCA	"	3264	59	12	36
UQ2GK	7	952	68	3	11

Lithuania

UP2AN	**A**	**40,488**	**269**	**21**	**67**
UP2NV	**14**	**28,220**	**251**	**16**	**52**
UP2CP	"	10,222	171	12	26



Part of the crew at W3ADO, station of the U.S. Naval Academy. Seated: Midshipmen KØDQI, K2UVG, K6ILB, K4OCZ and KØKHP. Standing: WA6EVW and K9MBQ.

UP2CG	**3.5**	**6409**	**215**	**4**	**25**

Moldavia

UO5AA	**A**	**72,036**	**366**	**45**	**93**
UO5GW	"	15,246	237	18	59
UO5SA	**14**	**20,723**	**297**	**11**	**42**

Ukraine

UT5AA	**A**	**816,408**	**1224**	**98**	**250**
UB5CI	"	203,841	476	73	188
UT5HP	"	31,595	241	26	63
UB5TR	"	12,672	136	19	47
UB5KBV	"	12,660	157	16	44
UB5LK	"	6840	71	16	41
UB5FY	**14**	**36,404**	**354**	**18**	**58**
UB5ZY	"	28,690	185	23	72
UB5WO	"	25,259	229	18	49
UT5EW	"	8200	114	15	35
UB5ZB	"	2576	112	6	17
UB5QA	"	1728	44	8	16
UB5DQ	**7**	**14,078**	**190**	**13**	**44**
UT5EH	"	12,737	220	10	37
UB5ZE	"	8668	150	13	31
UB5HQ	"	510	20	6	9
UB5EF	**3.5**	**10,222**	**258**	**7**	**31**
UB5WJ	"	2016	78	5	19
UB5WF	**1.8**	**1500**	**101**	**4**	**11**

White Russia

UC2BB	A	888	31	8	16
UC2AA	**14**	**183,580**	**645**	**34**	**100**
UC2CS	**7**	**4830**	**125**	**6**	**24**
UC2WP	"	2708	98	6	20

Oceania

Australia

VK2GW	**A**	**311,200**	**677**	**63**	**97**
VK2PV	"	83,592	273	40	68
VK2RA	"	43,862	182	38	53
VK2APK	**14**	**55,566**	**251**	**27**	**54**
VK3AXK	**A**	**85,750**	**331**	**41**	**57**
VK3RJ	**21**	**1664**	**37**	**8**	**8**
VK3ACI	**14**	**7020**	**98**	**12**	**14**
VK3AZZ	**7**	**82,289**	**459**	**22**	**39**
VK3XB	"	31,464	238	19	27
VK4SS	**A**	**4050**	**38**	**24**	**30**
VK4XW	**7**	**1530**	**38**	**7**	**8**
VK5NQ	**14**	**137,917**	**474**	**32**	**71**
VK5RX	"	4104	42	15	21
VK5TC	**7**	**11,180**	**156**	**12**	**14**
VK6RU	**A**	**302,670**	**596**	**61**	**116**
VK7SM	"	**100,848**	**283**	**56**	**76**

Caroline Is., East

KC6BK	**14**	**23,608**	**176**	**22**	**30**

Cook Islands

ZK1BS	**A**	**235,200**	**691**	**56**	**64**
ZK1AR	"	43,620	259	31	29

Fiji Is.

VR2DK	**A**	**87,990**	**330**	**46**	**59**

Hawaii

KH6EVT	**A**	**182,805**	**610**	**48**	**57**
KH6EJY	"	111,786	628	27	35
KH6EKO	**14**	**108,868**	**554**	**28**	**40**

Midway Is.

W6ZDF/KM6	**A**	**30,510**	**233**	**24**	**21**

New Zealand

ZL2AWJ	**A**	**238,524**	**550**	**64**	**92**
ZL1AMO	"	77,532	324	44	40
ZL4LB	"	70,152	328	33	46
ZL2AYJ	**14**	**39,996**	**232**	**25**	**41**
ZL1TU	"	9480	91	18	22
ZL2GS	**3.5**	**1417**	**39**	**8**	**5**

Philippine Is.

DU7SV	**A**	**112,934**	**479**	**32**	**50**

South America

Argentina

LU5AQ	**14**	**58,695**	**312**	**25**	**40**

Brazil

PY1ADA	**A**	**296,815**	**701**	**59**	**86**
PY1NFC	"	56,635	412	25	22
PY7ACS	"	44,464	270	25	31
PY2BNX	"	10,368	75	25	25
PY7BX	"	900	26	8	4
PY4BC	**21**	**11,254**	**114**	**10**	**24**
PY4OD	**14**	**219,230**	**692**	**32**	**76**
PY4ABH	"	103,680	401	28	62
PY7AKQ	**7**	**19,572**	**252**	**11**	**17**

Chile

CE1AD	**A**	**397,085**	**920**	**63**	**86**
CE1BD	"	**51,072**	**197**	**47**	**49**
CE20F	**14**	**8232**	**106**	**12**	**16**

Colombia

HK1QQ	**A**	**1,002,042**	**1885**	**66**	**113**
HK3AH	"	95,064	334	49	53
HK7AJP	"	35,391	258	26	21
HK7ZT	**28**	**3276**	**65**	**10**	**8**
HK7UL	**21**	**3735**	**139**	**5**	**4**

Ecuador

HC1DC	**A**	**759,000**	**1304**	**74**	**126**

Falkland Is.

VP8AI	**A**	**20,295**	**144**	**25**	**30**

Netherlands Antilles

PJ2AE	**A**	**65,968**	**331**	**30**	**32**

Paraguay

ZP9AY	**A**	**160,038**	**552**	**50**	**52**
ZP5JP	**21**	**6816**	**96**	**11**	**13**

Peru

OA4CG	**A**	**25,760**	**194**	**24**	**27**

Netherlands Guiana

PZ1AH	**14**	**15,200**	**178**	**12**	**20**

Uruguay

CX1RY	**A**	**251,748**	**739**	**44**	**67**
CX1FB	"	50,330	257	32	38
CX1OP	"	4590	54	18	16

Venezuela

YV5AGD	**A**	**307,988**	**710**	**59**	**89**
YV5BZ	"	3116	59	11	8
YV1DP	**14**	**63,046**	**726**	**12**	**17**
YV5BOA	"	6660	113	9	11
YV5ANT	**7**	**34,476**	**297**	**13**	**26**

The New Hampshire multi station, operated by LaMar Ray and Phil Smith, K1NBN.

MULTI-OPERATOR Single Transmitter North America

United States

W1BIH	**426,075**	**505**	**104**	**195**	(W1BIH, JYH)
K1RTB	250,068	418	82	147	(K1RTB, NBN)
W2PCJ	**98,208**	**190**	**71**	**115**	(W2PCJ, WB2CKS)
W2RA	4284	42	18	24	(W2RA, WA2CFG)
W3ADO	**260,615**	**339**	**82**	**153**	(U.S. Naval Academy)
W4HOS	**48,240**	**128**	**49**	**85**	(W4HOS, FRO)
K7ADL	**87,885**	**220**	**61**	**94**	(K7ADL, MLO)
K7CAD	**77,542**	**227**	**59**	**78**	(K7CAD, W7TML)
KØUTX	**206,360**	**359**	**80**	**140**	(KØUTX, LFY)

Canada

VE4JB	**48,472**	**276**	**38**	**45**	(VE4JB, MF)

San Andres

HKØZU	**791,280**	**2251**	**61**	**107**	(W4BJ, CKB, QVJ)

Asia

Mongolia

JT1KAA	**11,374**	**142**	**19**	**28**	(Club Station)

Saudi Arabia

HZ1AB	**89,444**	**285**	**35**	**83**	(W1TYQ, W8GCN)

U.S.S.R.
Club Stations

Armenia

UG6KAA	**67,313**	**285**	**19**	**64**

Asiatic

UA9KDP	**1,033,184**	**1164**	**86**	**246**
UA9KCA	**456,351**	**841**	**55**	**162**
UA9KAG	339,845	785	47	138
UA9KQA	295,470	541	54	156
UA9KTB	94,866	363	23	74
UA9KWS	40,755	212	20	45
UA9KPW	31,171	204	15	46
UA9KAO	18,901	194	10	31
UA9KEC	18,312	118	13	43
UA9KUU	3134	58	8	14
UA9KHA	1400	44	9	16
UAØKSB	**95,078**	**421**	**45**	**92**
UAØKYA	30,429	242	23	46
UAØKKB	22,114	197	32	32
UAØKCA	21,285	292	19	26
UAØKZB	9360	157	18	21
UAØKUA	1416	58	12	12

Azerbaijan

UD6KAB	**45,150**	**205**	**22**	**64**

Georgia

UF6KAF	**80,652**	**336**	**17**	**61**
UF6KPA	64,914	383	10	52

Kazakh

UL7KBK	**67,320**	**251**	**32**	**70**
UL7KUR	22,904	202	21	35
UL7KDT	20,975	145	17	40
UL7KAA	19,796	170	14	35
UL7KKD	6860	91	13	22
UL7KBI	5166	72	16	25

Kirghiz

UM8KAB	**103,896**	**451**	**29**	**75**

Turkoman

UH8KBC	**46,920**	**252**	**18**	**51**

Europe

Bulgaria
Club Stations

LZ1KSV	**602,730**	**1029**	**106**	**256**
LZ1KSZ	257,342	814	54	169
LZ1KBD	133,355	540	52	127
LZ1KBL	64,845	460	22	77
LZ2KBA	24,163	153	17	46
LZ1KSA	10,836	153	17	46
LZ1KAA	10,472	180	14	42
LZ2KRS	8352	232	9	27
LZ1KPW	4860	100	9	36
LZ1KSW	480	29	5	10

Czechoslovakia
Club Stations

OK1KPA	**224,018**	**639**	**62**	**140**
OK3KAG	113,844	548	37	122
OK1ZC	84,840	355	45	123 (OK1ZC, WR)
OK3KAS	67,209	415	32	97
OK2KJU	64,517	254	43	106
OK1KSO	48,251	368	24	89
OK3KMS	21,576	331	15	43
OK2KVI	6897	212	5	28
OK2KAU	5148	51	22	30
OK1KSL	3990	90	10	25
OK2KHD	3724	72	14	35
OK3KTD	2250	88	5	20
OK3KGI	1488	31	14	17

England

GB2KW	**83,616**	**445**	**44**	**90** (Radio Society)
G3PPG	11,200	111	20	44 (G3PPG, PPC, KLZ, DEF, PDX, POM)

Finland

OH2FS	**82,502**	**369**	**38**	**128** (OH2FS, OH2SB)
OH1SH	57,352	336	28	89 (OH1SH & friend)
OH2A	50,516	220	45	101 (OH2HK, 2YV, XK)
OH2BR	27,508	199	26	68 (OH2BR, OH2BAD)
OH2AF	13,024	127	22	52 (OH2BG, OH2VB)

Germany

DJ1ZG	**317,280**	**646**	**72**	**168** (DJ1ZG, 3JV, 3CI, 3SM, DL9XO)
DL1IN	221,760	536	63	135 (DL1IN, DL9CE, LI, PS)
DL9VN	152,304	528	50	117 (DL9VN, DJ2JE, DL3YQ, DJ5LE)
DLØFT	114,208	381	56	110 (DL1GW, 1HA, 1HH, DJ2VY, 5HL)
DJ4FZ	67,536	408	40	94 (DJ4FZ, 5AZ, 6TK, 6UK, 7SW)
DM3ML	61,410	277	40	98 (DM3ML, 3JML, OML, KJ)
DL9YP	28,615	229	27	70 (DL9YP, DJ4AN, 2AW)
DLØDX	11,904	101	22	42 (Club Station)

Hungary
Club Stations

HA3KGC	**177,210**	**627**	**51**	**128**
HA5KBP	130,427	648	42	124
HA5KFR	98,560	438	50	104
HA7KPF	64,064	506	26	78
HA5KFZ	31,525	297	19	78
HA6KVC	22,176	182	28	60
HA5KDQ	7080	101	19	40

Italy

I1DFG	**2968**	**100**	**7**	**21** (K1SDS, WA6NPW)

Luxembourg

LX3TA	**55,296**	**422**	**28**	**80** (DL1TA, DJØHZ)

Netherlands

PI1PT	**50,249**	**304**	**35**	**74** (Hobby Club)

Norway

LA1H	**64,032**	**422**	**25**	**62** (Club Station)

Poland
Club Stations

SP8KAR	**61,177**	**304**	**40**	**91**
SP3KAU	25,839	262	23	58
SP2KDS	25,048	176	30	71
SP9AOX	20,923	148	25	62 (SP9AOX, 9PT, AJM)
SP3KCC	4191	83	9	24

Roumania
Club Stations

YO3KSD	**116,490**	**495**	**39**	**126**
YO6KAF	36,378	359	18	76
YO4KAK	34,594	271	24	74

Sweden

SM5CZQ	**143,262**	**524**	**51**	**138** (SM5CZQ, SM5ARR)
SM5BAU	106,240	480	36	130 (SM5BAU, 5BCE, 5BDS, 6AVW, 7LV)
SL2ZA	56,134	376	31	96 (School Station)
SL5AB	46,746	248	37	89 (School Station)
SM7WT	10,150	77	23	447 (SM7WT, SM7CJZ)

Switzerland

HB1YR	**221,943**	**573**	**55**	**112** (HB9MD, HB9EU)
HB9IV	35,203	177	37	70 (HB9IV, HB9ACC)
HB9AAW	23,927	173	27	44 (HB9AAW, HB9AAV)

Yugoslavia
Club Stations

YU2AKL	**52,555**	**318**	**29**	**86**
YU4FTU	10,065	157	13	48

U.S.S.R.
Club Stations
Estonia

UR2KAE	**10,440**	**152**	**17**	**43**
UR2KAT	3007	86	7	24
UR2KAH	2295	85	6	21

European

UA3KWA	**164,892**	**633**	**41**	**141**
UA4KHW	**160,908**	**507**	**54**	**158**

[Continued on page 84]

Home-Built Receiver [*from page 27*]

should be enough.) Set the BC-221 to 3.5 mc and check to see that a signal output is obtained from the receiver.

8. Set the BC-221 to 3.6, 3.7, 3.8, and 3.9 mc and tune one of the four 4.5 mc i.f. circuits to each of these frequencies. It does not appear to matter much in what order they are tuned to which frequency but keep in mind the frequency selected for the primary of the input i.f.

9. Set the BC-221 to 3.75 mc and tune the antenna tuning circuit for maximum signal.

10. All of the above tuning adjustments can be made satisfactorily by ear. They can also be made by turning up the a.g.c. delay and tuning for maximum signal on the S meter. (*Caution:* With the a.g.c. at maximum, the meter will rise to a maximum and then hang. If care is not taken, the tuning will not be maximized.) Keep the a.g.c. at ¼ open.

11. With the receiver bandswitch on the 40 meter band, set the receiver dial on the frequency chosen in step 8 for tuning the primary of the input 4.5 mc i.f. transformer. Set the BC-221 on the forty meter frequency indicated on the receiver dial so as to produce a signal output and tune the primary of the input i.f. for maximum signal. Return to 3.75 mc with the receiver and the BC-221 and retune the 80 meter antenna tuning circuit for maximum signal.

12. Switch to the 15 meter band, tune the oscillator tank, and check for proper oscillator operation by listening for the beat on the BC-221. Then peak the input circuit in the band center.

13. A check should be made of the half-lattice filter by coupling the BC-221 to the 12AT7 conversion detector as in step 5 above and temporarily soldering a 1N34 (or any other similar detector crystal) to the signal side of the 68K load resistor for the half-lattice filter, as shown in fig. 5. For each position of the half-lattice filter switch, a series of current measurements should be taken at 500 c.p.s. intervals from 1597 kc to 1603 kc. A typical plot of outputs as measured on the original receiver is shown in fig. 6. If the plots obtained do not approximate those shown, then the performance of the receiver will not be optimum. The crystal frequencies and the circuit should be carefully checked and the bandpass characteristics of the filter rechecked until the shapes of the curves are near those shown.

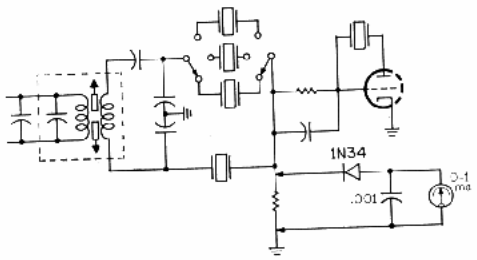


Fig. 5—Temporary circuit for determining the half lattice filter response as described in the text.

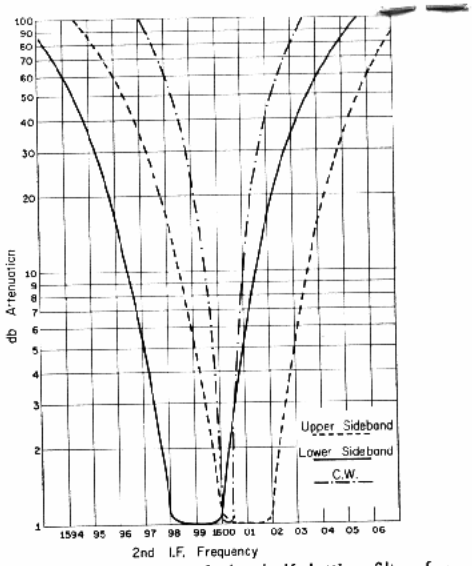


Fig. 6—Response curves of the half lattice filter for C.W., LOWER SIDEBAND and UPPER SIDEBAND.

Conclusions

Although I have tried to be very detailed in describing the circuits in this receiver that I had to spend time on, I did this for the benefit of those who have never embarked on a receiver project before. I am in hopes that those who have built receivers will recognize the promise of the quartz crystal detector as a tool for s.s.b., f.s.k. and c.w. and I am also in hopes that variations of this technique will soon appear in *CQ* which will make the homebuilt receiver even easier to build and better performing. ■

C.W. Results [*from page 50*]

UA1KUA	117,600	525	53	94
UA6KTB	112,365	461	41	124
UA3KWB	41,202	256	32	77
UA3KUA	24,450	215	19	56
UA6KAF	18,078	170	17	52
UA3KHA	17,756	219	28	44
UA3KFA	15,980	160	26	42
UA3KTK	11,205	209	11	34
UA1KAY	8112	132	17	35
UA3RZO	7880	121	8	32
UA4KPL	6966	130	15	39
UA3KYA	4182	48	15	26
UA4KCE	3267	55	13	20
UA3KOB	3072	86	7	25
UA6KVB	861	21	8	13
UA1KDY	288	14	6	10
Latvia				
UQ2KAM	2350	75	7	18
Ukraine				
UB5KED	**259,440**	**734**	**61**	**174**
UB5KAI	100,536	506	42	135
UB5KAK	32,509	473	16	43
UB5KKE	21,165	192	22	60
White Russia				
UC2KAR	**258,000**	**921**	**56**	**144**
UC2KGD	10,620	163	16	43

Our thanks to the following stations for sending us their logs for checking purposes: CR7LU; G3IRM; GI3PKY; HK3HY; KG6ALD; KL7RZ; OH5OD; OK1ADP, AEH, AEM, ARN, IJ, KIX, KRM, TJ, UQ; OK2BCZ, BDT, BMS, KNP, KOS; OK3CAW, CCA, KEF; OX3AI; OZ7KV; PAØMAR, PLM; SM5ASX, BEI, BFJ, BHW, CWC; SM7CKJ/6; SP9AHL, AJA; UL7KNG; UT5CU; VQ2MS; W1MD, MV, RWU; W2GT, WZ; W6ERS, OJW; K6OHJ; W9TCU; VE6VO; ZL3IS; ZS2E; UA9-23285; LA6CF/M.