

# Results of the

## 1963 CQ World Wide DX

### C. W. Contest

BY FRANK ANZALONE\*, W1WY

**O**UR hearts were not in this one, the news of the tragic death of our President a few hours before the start of the contest put a damper on the whole operation.

Many of us who did continue in the contest did so with the feeling that we were carrying on President Kennedy's tradition of his world wide interest in people of all nations.

It was impossible to call off an activity of this world-wide scope on such short notice, so carrying on in his memory was the only logical thing we could think of doing.

This sad burden is reflected in the 12% decline in the returns from the USA, while the rest of the world was showing an 8% increase.

We were constantly made cognizant of the tragedy that befell our nation, by the personal condolences from fellow amateurs from all corners of the globe, who interrupted their rapid exchange of serial numbers to offer their words of sympathy, proving what we already know, that there are no separating boundaries in amateur radio. We like to think that our World Wide Contest strengthens this tradition.

Now, getting to the contest itself. Conditions were equal to those we experienced for the phone week-end and far better than last year, this in spite of the lower sun spot numbers.

The trophy winners and top scorers are appropriately listed in their respective boxes, therefore we will not elaborate on the details.

The winner's circle is once again occupied by 5A1TW, making Gene Walsh a double winner in the all band category for 1963. Even with a desirable geographical location it still takes a lot of doing to be the Top Man in this contest. Congratulations Gene.

Without taking any credit away from Gene, I think the outstanding performance this year was turned in by W3GRF. Len Chertok should be

\*14 Sherwood Road, Stamford, Conn. 06905



#### TROPHY WINNERS

**Single Operator, Single Band (14 mc)**  
Potomac Valley Radio Club Trophy  
won by Peter Hobbs, VP8GQ

**Single Operator, All Band**  
The W9IOP, Larry LeKaskman Trophy  
won by Eugene Walsh, 5A1TW

**Multi-Operator, Single Transmitter**  
The W3AOH, Tony Susen Trophy  
won by VK5NO (Ops.: VK5NO & VK5ZP)

**Multi-Operator, Multi Transmitter**  
The K2GL, Buzz Reeves Trophy  
won by CX2CO (Ops.: CX2CO & CX7CO)

**World High Club Score**  
CQ Club Plaque  
won by the Deutches DX Team

justly proud of his score. Increasing your multiplier on the lower frequencies does not come easy from this side of the Atlantic, and without that you're not in contention.

Don't let the call 9Q5AB fool you, its none other than Harry Lilienthal, DL7AH who has also made appearances from other equally exciting locations.

As in the phone contest, KP4A00 had a very high contact total, but Roger has got to come with a healthier multiplier to be a top contender.

The rest of the calls in the Top Ten as well as those who didn't quite make it, are to be congratulated for their fine showing in a very competitive category.

Turning to the multi-operator section we find VK5NO leading the field in the single transmitter division. The call had us fooled for a minute, but it was VK5NQ that was a Trophy winner a few years ago. It's still the same team however, Jeff and Tubby Vale, but from a new location.

A couple of west coast boys tried to win a permanent memento for KG6AAY but didn't quite make it.

Terry K6SDR and Mike, WA6EHL, of multi KG6AAY, runner-up for world honors. Hope you fellows can take another crack at it in the next one.

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And Roger Mace with an abbreviated crew took it easy this year and put W6RW in the junior division.

The planning, work and effort that goes into a multi-transmitter set-up is a whole story in itself. The total number of operators involved in this division could almost start a contest of their own.

But strangely enough it was the "CO" two-some, CX2CO and CX7CO from the phone contest, that again made it a double win for CX2CO. The Sierra organization has now completed the cycle as Trophy winners, so the boys will probably relax for the next few years.

The crew at W3MSK was also an abbreviated group, three operators on three individual bands. Ed Bissell, the chief operator was over in India monitoring his station's activities. He should have stayed home and given the boys a hand on some of the other bands.

Here again I feel that without taking any credit away from CX2CO or W3MSK, the outstanding performance is not always turned in by the leading stations. Dale Hoppe and his fine crew at W6VSS, have the admiration of all contest men who appreciate what is involved. Making over a million points from the west coast is a heap of operating.

The operation at UA9KDP was supervised by Vladimir Semenov, UA9DN a Trophy winner in 1960 and 1961. We found it necessary to reclassify this station and put it in the multi transmitter division. Perhaps a more detailed explanation of what constitutes a single transmitter and a multi transmitter station is in order for future contests. There seems to be some misunderstanding on this point.

I suggest you closely scrutinize the breakdown of the scores of the "Big Guns" in the new summary listing. This really tells the story of the kind of operating that goes on at a top notch multi station. It also will show you "single banders" how your score stacks up on the individual bands, against the top stations in the world. Most of us would be out of the money.

And now, turning to the Single Band division we find that 14 mc is still the winning band. Don Miller was out to make it a double win for HL9KH before he shut down his operation from Korea but was stymied by the fine performance of Peter Hobbs, VP8GQ. Pete's contact total overcame Don's higher multiplier, and he will find an attractive Trophy waiting for him when he returns to his home in England.

Other fine performances on this band were turned in by CE3AG, ZL1AIX, 4X4FA, PY4GA and K2UVU, to mention a few that were overshadowed by the Continental Leaders. My vote for the outstanding performance on this band goes to W4KFC, a typical Vic Clark effort.

Conditions on 21 mc must have been unusually good for southern Africa. The score turned in by ZS61W is in a class by itself and VQ2W proved that it was not a fluke. I sometimes wonder why the boys down that way don't take more advantage of these band openings that are ob-

	Band	Contacts	Zones	Countries	Points
CX2CO 1,456,380	18	2	1	2	1
	3.5	7	3	5	6
	7	207	17	29	598
	14	748	32	79	2191
	21	592	27	63	1757
	28	162	13	19	469
TOTAL	1718	93	197	5022	
W3MSK 1,304,797	18				
	3.5				
	7	276	32	78	798
	14	542	37	113	1594
	21	363	30	87	1069
	28				
TOTAL	1181	99	278	3461	
W6VSS 1,288,008	18	7	3	2	4
	3.5	80	15	21	198
	7	294	33	62	828
	14	501	37	112	1412
	21	247	28	58	680
	28	40	14	17	82
TOTAL	1169	130	272	3204	
UA9KDP 1,274,085	18				
	3.5	264	12	42	744
	7	414	28	62	1153
	14	413	30	76	1116
	21	265	24	71	680
	28				
TOTAL	1356	94	251	3693	
K2GL 1,097,168	18	7	3	3	3
	3.5	94	11	23	259
	7	163	28	61	473
	14	438	34	96	1286
	21	297	28	74	867
	28	14	7	6	28
TOTAL	1013	111	265	2918	
DJ3JZ 1,036,980	18	18	2	9	16
	3.5	156	9	40	211
	7	236	25	45	552
	14	563	34	74	1486
	21	369	26	49	1027
	28	1	1	1	0
TOTAL	1343	97	218	3292	

Along the same lines as the multi-phone breakdown last month, the c.w. equivalent is given above.

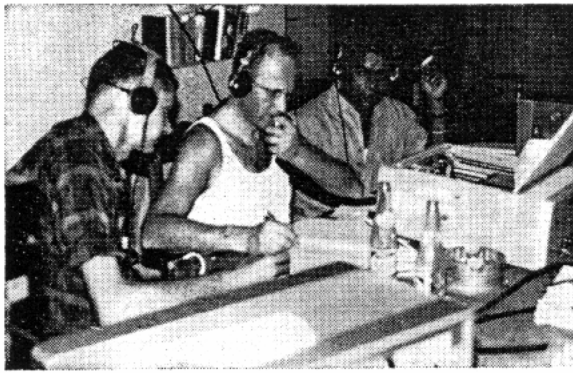
viously superior to those from other parts of the world.

Here on the East coast the band was wide open to Europe on Saturday morning, but it petered out on Sunday and visions of a record score went out the window. It seemed I had the band practically to myself, except for the multi stations, so WIWY's appearance in the "Box" is sort of by default. Maybe my move to W1 land finally paid off. (Voice from the back room: "Or being chairman of the Contest Committee." OK Toby, no more pictures in my column!)

There was plenty of stuff to work on 7 mc if you were equipped for it, that is. W8FGX was not only equipped but Jake also has the "know how" of getting the most out of the band. Altho



The gang at DJ3JZ before activities started. L. to r. DL1CR, DL3AO, DJ1BP, DL9CI and DJ3JZ. Hardi claims there was only orange juice in the bottle. Maybe champagne after the contest?



9Q5UC—Harry, DL7AH and the boys who manned the station during the Phone contest. (Photo received too late for last month's issue.)

his score is second to 4X4DH, his Zone/Country total is far superior to any other contestant on the band.

A note to the Israel Radio Club; if Ami is not eligible for your 7 mc Trophy because of membership in your club, then you know where to send it. Jake Schott is your man.

Practically all the 80 meter activity was over in Europe, and a look at the scores will prove it. "Sounded like a foreign sweepstakes," remarked K2DGT. "Called 'em 'til I was blue in the face, was only able to raise a few; they were too busy working each other." Maybe you should have stuck to 40 as in previous years, Bob.

Even 160 was given a play this year, with most of the activity concentrated across the At-

lantic. Over here VE2UQ made the best showing. Gordon was one of the first to note the band was open to Europe in the early evening. If others had been aware of this phenomenon, there might have been more activity on the band.

As for 28 mc, forget it. the MUF just doesn't go down that far anymore, altho HK7ZI and W6ID managed to show a score on that band.

Space only permits me to touch the high spots in this report. Any omission in no way reflects on the fine job done by many other contestants. In reality, the life blood of any contest is the thousands of small participators without whom there would not be a contest. So our thanks to all you fellows, even though only a few of you sent us a report of your activity.

It was "no contest" in the battle for the CQ Plaque. The Deutsches DX Team had its full membership out for this one and ran away with it. Already we have heard cries of "break up the DDXT." Maybe it's something we should investigate.

There are several DX Clubs in the USA who could give the DDXT a run for its money, but outside the Potomac Valley and the Southern California, the few listed clubs have only made a half hearted attempt. As a matter fact, we know of one outfit that actually avoids participation in our contest and concentrates on a less competitive activity.

A count shows 1223 logs from 110 countries for this one. Add this to the 717 received in the

[Continued on page 83]

### United States Club Scores

Potomac Valley Radio Club	5,644,223
Southern California DX Club	3,959,000
Virginia Century Club	2,095,092
Northeast DX Association	1,270,859
San Diego DX Club	511,602
North Jersey DX Association	456,061
Ohio Valley Amateur Radio Ass'n	433,562
Order of Boiled Owls (N.Y.)	433,234
U.S. Naval Academy A.R.C.	427,281
Florida DX Club	343,636
Northern California DX Club	341,572
West Gulf DX Club	249,894
Lockheed Employees A.R.C. (Calif.)	198,116
Long Island DX Association	121,278
Willamette Valley DX Club (Wash.)	118,268
QCWA DX Club (N.Y.C.)	80,857
Missouri School of Mines	30,072
Seven-Eleven A.R.C. (N.J.)	13,115
Suffolk A.R.C. (N.Y.)	9,400
Rochester DX Association	5,978
West High School A.R.A. (Ohio)	5,625
Nashua Mike & Key Club (N.H.)	720

### Foreign Club Scores

<b>Deutsches DX Team</b>	<b>8,935,230</b>
Uruguay DX Club	2,986,985
Far East DX-ploiters (Japan)	2,109,639
Swiss DX Club	1,429,942
Radio Club of Costa Rica	595,358
Kharkov Radioclub DOSAAF (Ukraine)	532,648
Okinawa Amateur Radio Club	527,824
Guayaquil Radio Club	499,722
Radioklub Der DDR	484,862
Turun Radioamatoorit R.C. (Finland)	483,336

Venezuela DX R.C.	451,605
Ural Polytechnic Institute R. C. (USSR)	433,780
Radio Club of Armara (Ethiopia)	389,844
Lodzki Klub (Poland)	344,448
Kakkosten Kermo R. C. (Finland)	297,620
Amateur Radio Club of Vicenza (Italy)	289,674
Radio Club of Gijor (Hungary)	220,626
Chalmers Univ. of Tech. R.C. (Sweden)	211,768
Central Radio Club of Budapest	210,125
Harstadgruppen A.R.C. (Norway)	195,858
Radio Club of Locos Del Aire (Ecuador)	173,824
Lvov DX Club (USSR)	162,724
Central Radio Club (Czechoslovakia)	152,111
Royal Air Force A.R.S.	150,781
Michael Pupin Radio Club (Yugoslavia)	126,885
SP DX Club (Poland)	93,850
Kiel-Canal Activity Group (Germany)	88,086
LOK Radio Club (Poland)	87,200
Antejonic Radio Club (Yugoslavia)	52,206
Japan DX Radio Club	43,698
Radio Club of Maribor (Yugoslavia)	37,418
JLPDXC (Japan)	23,426
QRJ Club (Japan)	23,227
King (Japan)	16,800
Shizuoka Club (Japan)	15,656
Radio Club of Kherson (USSR)	11,088
Yokosuka Club (Japan)	8,541
Radio Society of Bermuda	7,917
Sixth Signal Squadron (RCAF)	4,675
ORC (Japan)	3,516
Santander Radio Club (Colombia)	2,925
Mimasaka A.R.C. (Japan)	1,425
Miyadai A.R.C. (Japan)	1,012
Nagano Radio Club (Japan)	308

ALL I

W3GRF  
9Q5AB  
KP4AOO  
W4YHD

VK5NO  
KG6AAY  
W6RW

CX2CO  
W3MSK  
W6VSS

All Band

Number groups  
note the follow  
Final Score; Nu  
and Countries. C  
listed in bold fa

C. W.  
SINGLE  
North

Unit	
W1BIH	A 2
W1CKA	" "
W1UUK	" "
K1EWL	" "
W1JTD	" "
W1PLJ	" "
W1OJR	" "
W1WY	21
W1GDK	" "
K1VWL	" "
K1IJU	" "
K1IJJ	" "
W1BPW	14
W1AGS	" "
K1NHR	" "
W1GYE	" "
W1ANR	" "
W1AWE	" "
K1ITU	" "
K1NOL	7
K1ZND	" "
W1SWX/1	3.5
W20JD	A 2
K2DNA	" 7
W2GGE	" 6
W2IEK	" 6
W2AZS	" 3
W2JKH	" "
W2HL	" "
W2ZZZ	21
K2KFP	" 1
WB2CRX	" 1
W2LYO	" "
W2JB	" "
K2UVU	14
K2HWL	" 16
W2AIW	" 13
K2LAF	" 5

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195,858  
173,824  
162,724  
152,111  
150,781  
126,885  
93,850  
88,086  
87,200  
52,206  
43,698  
37,418  
23,426  
23,227  
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4,675  
3,516  
2,925  
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### Top Ten ALL BAND—SINGLE OPERATOR

5A1TW .....			871,750
W3GRF .....	712,640	JA1BRK .....	516,906
9Q5AB .....	663,310	UB5CI .....	512,652
KP4AOO .....	601,084	VK6RU .....	509,615
W4YHD .....	550,536	W4DHZ/4 .....	502,124
OK1ZL .....	474,978		

### Top Six MULTI-OPERATOR SINGLE TRANSMITTER

VK5NO .....	945,248	K4LIQ .....	482,630
KG6AAAY .....	730,598	LZ1KSZ .....	468,540
W6RW .....	526,960	YV5AJ .....	451,605

### MULTI-OPERATOR MULTI-TRANSMITTER

CX2CO .....	1,456,380	UA9KDP .....	1,274,085
W3MSK .....	1,304,797	K2GL .....	1,097,168
W6VSS .....	1,288,008	DJ3JZ .....	1,036,980

### U.S.A. Runners-up

All Band .....	W8JIN .....	377,456
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28 Mc .....	K4HPR .....	399
21 Mc .....	W8UMR .....	31,951
14 Mc .....	K2UVU .....	175,311
7 Mc .....	K1NOL .....	55,692
3.5 Mc .....	K6BPR .....	3,645
1.8 Mc .....	W2EQS .....	180

### Continental Leaders SINGLE BAND

28 Mc		7.0 Mc		
HK7ZI .....	2,925	4X4DH .....	150,499	
W6ID .....	1,375	W8FGX .....	88,061	
21 Mc		OK2KOJ .....		80,926
ZS6IW .....	261,120	YV5ANT .....	58,459	
4X4LC .....	98,904	ZS2HI .....	49,419	
PY4ABH .....	90,528	VK3XB .....	16,887	
DJ1ZG .....	77,794	3.5 Mc		
W1WY .....	56,776	UB5MZ .....	24,072	
W7UXP/KH6 .....	35,244	4X4DI .....	20,459	
14 Mc		K2DGT .....		9,400
VP8GQ .....	356,760	ZL2GS .....	4,368	
HL9KH .....	339,920	1.8 Mc		
VK3APJ .....	264,775	DJ3KR .....	2,688	
W4KFC .....	261,513	VE2UQ .....	1,521	
ST2AR .....	140,610			
DJØIK .....	132,600			

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					
W1BIH .....	A	257,796	365	83	169
W1CKA .....	"	74,745	170	62	103
W1UUK .....	"	43,930	139	41	74
K1EWL .....	"	6888	50	26	30
W1JTD .....	"	3444	31	18	24
W1PLJ .....	"	2077	25	15	16
W1OJR .....	"	1125	15	10	15
W1WY .....	21	56,776	212	28	66
W1GDQ .....	"	21,172	107	22	45
K1VWL .....	"	6579	64	17	26
K11JU .....	"	4180	33	15	29
W1BPW .....	14	95,823	287	31	86
W1AGS .....	"	26,788	124	23	51
K1NHR .....	"	21,483	96	22	55
W1GYE .....	"	21,112	93	25	49
WA1ANR .....	"	21,087	106	20	51
W1AWE .....	"	16,836	84	22	47
K1ITU .....	"	1820	22	10	18
K1NOL .....	7	55,692	229	22	62
K1ZND .....	"	1128	20	9	15
W1SWX/1 .....	3.5	720	17	9	11
WA20JD .....	A	224,908	347	84	152
K2DNA .....	"	74,480	170	55	97
W2GGE .....	"	67,693	150	53	86
WA2IEK .....	"	62,916	153	55	92
W2AZS .....	"	30,800	105	31	69
W2JKH .....	"	5800	36	25	33
W2HL .....	"	3720	33	17	23
WA2ZEZ .....	21	19,728	98	23	49
K2KFP .....	"	13,115	77	22	39
WB2CRX .....	"	11,554	78	20	33
W2LYO .....	"	1161	17	13	14
W2JB .....	"	66	4	2	4
K2UVU .....	14	175,311	397	39	112
K2HWL .....	"	162,996	396	36	105
W2AIW .....	"	131,709	354	36	93
K2LAF .....	"	50,149	179	28	69

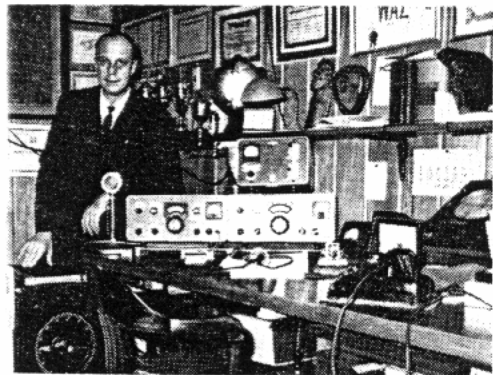
W2WZ .....	"	33,761	124	29	62
W2RDD .....	"	12,544	67	21	43
W20DZ .....	"	10,098	53	21	45
WA2YJN .....	"	420	10	5	9
W2CKR .....	"	400	10	7	9
K2DGT .....	3.5	9400	70	18	32
WA2RUB .....	"	2916	43	9	18
W2EQS .....	1.8	180	14	3	3
W3GRF .....	A	712,640	734	107	233
W3MCG .....	A	156,378	273	71	130
W3FDH .....	"	107,690	212	60	118
W3KA .....	"	104,098	242	48	98
W3ZKH .....	"	95,370	202	61	109
W3ZVJ .....	"	75,848	175	62	90
W3QQZ .....	"	66,612	161	60	96
W3FRZ .....	"	64,680	163	50	90
W3MSR .....	"	56,068	174	49	82
W3AYD .....	"	52,688	129	54	94
W3MVB .....	"	13,629	66	32	45
W3JTC .....	14	134,144	350	36	95
W3DAO .....	"	89,024	287	30	77
W3AFM .....	"	76,260	216	34	90
W3UVH .....	7	1755	24	11	16
W4YHD .....	A	550,536	582	112	227
W4DHZ/4 .....	A	502,124	573	97	219
W4LXS .....	"	210,936	364	81	123
W4KXV .....	"	147,188	406	35	89
W4OPM .....	"	107,087	214	61	112
W4LRN .....	"	51,584	148	42	82
WA4CGA .....	"	28,290	98	49	66
W4ZYS .....	"	27,555	99	36	59
W4ZM .....	"	18,655	73	39	52
W4HOS .....	"	9108	55	32	34
W4KMS .....	"	3827	30	19	24
W4GF .....	"	3080	38	16	24
W40MW .....	"	2400	31	14	18
K4HPR .....	28	399	10	10	9
K4YFQ .....	21	18,848	110	23	39
K4VFY .....	"	2475	34	15	18
W4ZQK .....	"	2190	26	12	18
W4KFC .....	14	261,513	605	36	111
W4BCV .....	"	89,930	252	35	80
K4PDV .....	"	78,600	226	34	86
W4PLL .....	"	69,920	213	32	83
W4LTV .....	"	66,216	189	34	90
W4HKJ .....	"	25,110	109	26	55
W40M .....	"	8880	48	24	36
K4WVP .....	"	7144	53	16	31
WA4DAA .....	"	1392	18	14	15
K4VWH .....	7	27,951	127	26	51
W4DLA .....	"	3024	26	17	25
WA4APG .....	"	112	7	4	4

W4WHK .....	3.5	3399	41	13	20
W5BBR .....	A	170,323	269	93	140
W5BUK .....	"	84,266	175	69	113
WA5CBE .....	21	22,480	103	26	54
W5KC .....	14	49,086	174	33	68
K5STL .....	"	7448	53	18	31
W5WZQ .....	7	54,832	212	29	63
K5JZY .....	"	7740	67	18	27
W6IBD .....	A	281,082	424	97	140
K6ASL .....	A	230,582	382	90	133
WA6GKY .....	"	161,090	322	71	107
W6GRX .....	"	154,912	289	76	112
W6KJ .....	"	134,298	294	67	95
WA6HRS .....	"	133,488	299	67	95
WA6QGW .....	"	77,087	172	63	94
W6NKR .....	"	23,562	87	45	54
K6HOR .....	"	17,812	99	25	36
WA6VAT .....	"	8710	53	32	35
W6BIL .....	"	1780	24	14	16
W6ID .....	28	1375	23	12	13
W6BSY .....	21	28,944	144	26	46
K6MQG .....	"	25,704	130	25	43
W6ISQ .....	"	21,420	120	25	38
W6TMX .....	"	1482	27	10	9
W6EPZ .....	14	93,000	267	37	83
W6LCX .....	"	67,424	207	37	75
W6MSM .....	"	58,651	226	30	59
W6PQW .....	"	34,554	155	28	50
W6KNE .....	"	26,404	113	31	51
W6VNJ .....	"	15,275	84	25	40
WA6OZL .....	"	5600	58	12	20
W6ILP .....	7	50,138	207	30	56
W6JZH/6 .....	"	47,460	234	26	44
WA6TEV .....	"	658	21	7	7
K6BPR .....	3.5	3645	52	12	15
W7PQE .....	A	133,815	297	70	95
W7MX .....	"	61,161	193	47	64
W7BTH .....	"	49,324	148	44	74
W7DIS .....	"	48,564	158	53	61
K7UCH .....	"	42,704	173	39	49
W7POU .....	"	2550	29	14	16
W7VY .....	14	72,590	252	29	56
K7CPS .....	"	1536	26	12	12
W7DLR .....	"	168	6	6	6
W8JIN .....	A	377,456	432	102	210
WA8CZH .....	"	20,394	84	43	56
W8DUS .....	"	19,303	70	28	44
W8YGR .....	"	6272	39	23	33
W8TRN .....	"	968	17	10	12
W8UMR .....	21	31,951	128	29	60
W8TTN .....	"	31,291	132	28	55
WA8EWT .....	"	5625	46	18	27

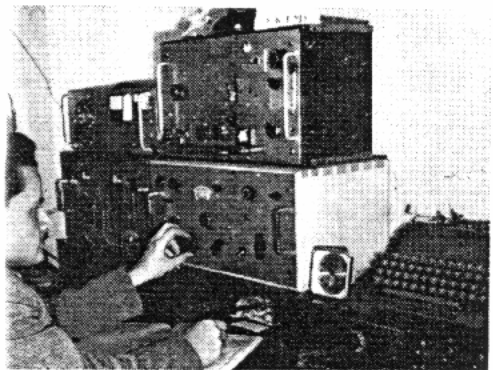




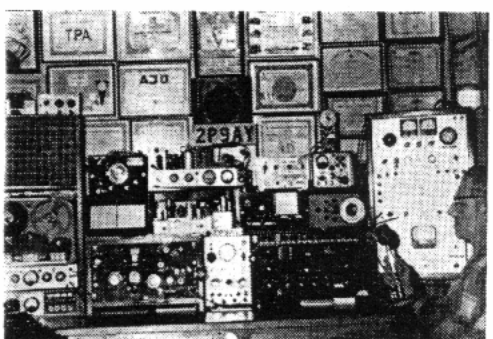
Part of the K2GL crew right after it was all over. W1GYE, K1ZVU, W2DTJ, W2IWC, and K2GL. The mic? Buzz was comparing scores with some of the other "Big Guns."



A recent photo of Luis, CE3AG the big 14 mc signal from Chile. Luis was the single band Trophy winner in 1959 and placed 3rd world high this year.



OK1MG—Tonik was high scorer on 3.5 mc for Czechoslovakia.



ZP9AY—Most of the equipment is home made and powered from a gas generator. Robert only operated the second day of the contest. In respect for President Kennedy he kept his station silent on the 23rd.

W8EW	14	11,773	69	24	37
W8ENO	"	11,658	76	21	37
W8FGX	7	88,061	285	31	76
K8WVF	"	14,941	82	25	42
K8NMG	"	4368	39	17	25
W8AJW	3.5	2142	48	9	12
W8BAR	1.8	32	5	2	2
W9EWC	A	300,045	432	92	157
W9IOP	"	267,810	402	80	157
W9KXK	"	59,340	151	54	84
W9GMS	"	17,776	81	39	49
K9WTS	"	15,522	77	37	41
W9TCU	"	594	12	9	9
W9QQG	28	110	9	6	5
K9PPX	21	21,052	101	26	50
W9VSO	"	19,886	111	21	40
K9LID	14	46,550	178	30	68
W9QM	"	5565	56	19	34
K9DWG	"	1500	21	9	16
W9AQW	7	6468	50	19	30
W9PNE	3.5	3103	47	11	18
W9YYG	"	190	11	5	5
W0EQN	A	24,910	103	42	52
W0GUV	"	23,005	87	50	57
K0JPL	"	5115	50	27	28
W0TCX	21	27,262	115	29	57
W0CUC	"	5106	46	18	28
W0EEE	14	30,072	145	29	55
W0CRY	"	875	15	13	12
K0MIC	7	19,028	103	27	40
W8GKB/0	"	7296	61	20	28
K0ZBO	"	4472	41	18	25
Barbados					
VP6AT	7	4896	135	7	11
Bermuda					
VP9B0	7	16,416	214	13	23
Canada					
VE1EK	A	3680	36	19	21
VE1TG	21	14,744	169	14	24
VE1YB	"	1404	18	11	16
VE2NV	A	250,408	428	81	145
VE2BV	"	50,932	159	43	76
VE2WA	"	19,998	77	44	55
VE2UQ	1.8	1521	79	5	4
VE3MBB	A	14,235	90	35	38
VE3AU	14	28,875	136	28	49
VE3AHU	7	216	10	5	4
VE5UF	A	6560	73	20	20
VE6TP	14	20,880	101	24	48
VE7PU	14	66,258	335	29	52
VE8RG	A	105,791	399	53	66
VE8RH	A	21,216	177	23	28
VE8DX	14	12,121	185	10	21
VE8CD	"	990	35	8	7
Canal Zone					
KZ5LC	A	87,091	350	48	61
Dominican Republic					
H18MMN	A	196,342	707	51	76
Greenland					
OX3AY	A	28,202	226	28	31
Mexico					
XE1VT	A	9456	195	14	10
Puerto Rico					
KP4A00	A	601,084	1246	68	141
KP4CC	"	73,899	269	44	75
KP4BJU	"	6225	119	10	15
KP4B0J	21	21,828	314	15	19
KP4BJM	"	3515	84	11	8
Africa					
Angola					
CR6DX	A	48,672	232	29	43
Basutoland					
ZS8JJ	A	144,275	354	56	89
ZS8JO	"	62,812	275	36	46
Egypt					
SU1IM	A	15,903	99	17	40
Ghana					
9G1FB	14	35,283	209	21	36
Kenya					
VQ4IQ	14	101,640	326	31	79
Kerguelen Is.					
FB8XX	14	1218	20	9	12
Libya					
5A1TW	A	871,750	1195	75	175
5A3TX	14	29,960	182	20	36

Morocco					
CN8FW	A	264,990	778	39	71
CN8FE	14	129,010	465	31	64
CN8GB	"	42,504	258	17	39
Malagasy Republic					
5R8AI	A	63,147	237	31	66
Mozambique					
CR7IZ	A	189,474	480	49	89
Nigeria					
5N2CKH	A	53,400	190	32	68
5N2JWB	14	51,198	332	18	35
Nyasaland					
ZD60L	A	218,094	477	51	112
Republic of Congo					
9Q5AB	A	663,310	1020	69	157
Reunion Island					
FR7ZD	A	135,978	373	41	90
Rhodesia, Northern					
VQ2BC	A	19,908	119	30	33
VQ2W	21	173,727	614	26	71
Rhodesia, Southern					
ZE4JS	A	160,204	525	40	81
ZE2JE	14	88,605	324	30	69
ZE1BF	"	21,120	135	22	38
Saint Helena					
ZD7BW	A	29,841	130	35	52
Sierra Leone					
9L1TL	14	60,162	293	22	52
South Africa					
ZS6ARU	A	73,815	299	34	61
ZS2RM	"	66,300	275	38	47
ZS2U	"	9858	60	24	38
ZS10	"	5656	70	13	15
ZS6IW	21	261,120	866	25	77
ZS2E	"	10,116	96	12	24
ZS5UP	14	23,048	111	24	62
ZS2HI	7	49,419	334	18	33
Sudan					
ST2AR	14	140,610	347	30	79
Swaziland					
ZS7M	14	4365	37	19	26
Tanganyika					
5H3HZ	A	69,993	225	43	58
Asia					
Aden					
VS9AAE	A	5508	44	21	33
Cyprus					
5B4JF	A	33,594	174	22	44
5B4BA	21	12,075	116	10	25
India					
VU2AJ	14	50,400	263	26	54
VU2CK	"	32,436	212	22	46
VU2ND	"	19,592	143	18	44
Israel					
4X4LC	21	98,904	468	22	56
4X4MR	"	94,332	400	25	59
4X4FA	14	244,488	715	30	92
4X4DH	7	150,499	596	23	66
4X4D1	3.5	20,459	174	8	33
Iran					
EP2AV	A	6834	87	20	47
Japan					
JA1BRK	A	516,906	806	94	140
JA1FSL	A	262,416	573	70	98
JA1YL	A	228,712	473	76	109
JA7AD	"	89,010	289	50	65
JA1DMX	"	39,375	135	57	68
JA1ELX	"	33,840	171	44	50
JA1VX	"	30,600	99	53	67
JA3AF	"	29,481	134	45	48
JA2TH	"	15,656	117	34	42
JA2AIR	"	14,355	104	23	32
JA3BEA	"	11,696	81	31	37
JA2WB	"	10,710	74	31	32
JA7MJ	"	10,075	70	30	45
JA5IP	"	8480	72	25	28
JA6ACZ	"	8442	94	20	22
JA1AIU	"	7920	81	21	23
JA1EFE	"	6747	72	20	19
JA1BK	"	4675	38	23	32
JA1CX	"	4521	59	15	18
JA1CUM	"	4140	52	18	18
JA3XY	"	3430	59	17	18
JA1BUI	"	3264	44	16	16

JA1AS	.....
JA1NLS	.....
JA3CEV	.....
JA3ASU	.....
JA1BYM	.....
JA6AKL	.....
JA9NB	.....
JA9ZM	.....
JA1DUH	.....
JA7BGU	.....
JA7XV	.....
JA5FQ	.....
JA0SU	.....
JA1EM	.....
JA6BXA	.....
JA6AKW	.....
JA6PY	.....
JA1DFQ	.....
JA6HW	.....
JA1ACA	.....
JA3FGE	.....
JA3EBE	.....
JA1DCY	.....
JA6PL	.....
JA4ACH	.....
JA1IRS	.....
JA1FAK	.....
JA1KXW	.....
JA3CZA	.....
JA9FB	.....
JA8BI/JA1	.....
JA1BWA	.....
JA2ANX	.....
JA1BN	.....
JA7JI	.....
JA3AA	.....
JA2JW	.....
JA8GR	.....
JA2DN	.....
JA1BLC	.....
JA6PN	.....
JA1IFP	.....
JA2PY	.....
JA1CFD	.....
JA1HOM	.....
JA1IZ	.....
JA8BB	.....
JA1HP	.....
JA1AJM	.....
JA1HFH	.....
JA6YBR	.....
JA0HC	.....
JA4AQR	.....
JA1AEA	.....
JA3DDG	.....
JA7XF	.....
JA1FOP	.....
JA2DCN	.....
JA3YBQ	.....
JA1CWZ	.....
JA7AKQ	.....
JA3CAF	.....
JA1IBX	.....
JA1YDU	.....
JA7BGT	.....
JA2BVS	.....
JA4AKL	.....
JA1FTL	.....
JA2CBK	.....
JA6BCV/1	.....
JA1HLR	.....
JA3JM	.....
JA1HGY	.....
KA7TB	.....
HL9KH	.....
OD5LX	.....
9M2GJ	.....
VS1LP	.....
JT1CA	.....
JT1AG	.....
JT1KAA	.....
JT1AD	.....
AP5AH	.....
AP5CP	.....
KR6ML	.....
KR6BQ	.....
KR6GA	.....
KR6FG	.....
KR6AH	.....

occo					
990	778	39	71		
010	465	31	64		
504	258	17	39		
Republic					
147	237	31	66		
bique					
474	480	49	89		
ria					
400	190	32	68		
198	332	18	35		
land					
394	477	51	112		
of Congo					
310	1020	69	157		
Island					
378	373	41	90		
Northern					
308	119	30	33		
727	614	26	71		
Southern					
204	525	40	81		
505	324	30	69		
120	135	22	38		
elena					
341	130	35	52		
eone					
362	293	22	52		
Africa					
315	299	34	61		
800	275	38	47		
358	60	24	38		
356	70	13	15		
20	866	25	77		
116	96	12	24		
348	111	24	62		
319	334	18	33		
an					
310	347	30	79		
land					
365	37	19	26		
yika					
93	225	43	58		
α					
n					
08	44	21	33		
us					
94	174	22	44		
75	116	10	25		
α					
00	263	26	54		
36	212	22	46		
92	143	18	44		
01					
04	468	22	56		
32	400	25	59		
88	715	30	92		
99	596	23	66		
59	174	8	33		
1					
34	87	20	47		
n					
06	806	94	140		
16	573	70	98		
12	473	76	109		
10	289	50	65		
75	135	57	68		
40	171	44	50		
30	99	53	67		
31	134	45	48		
56	117	34	42		
55	104	23	32		
36	81	31	37		
10	74	31	32		
75	70	30	45		
30	72	25	28		
12	94	20	22		
0	81	21	23		
7	72	20	19		
5	38	23	32		
1	59	15	18		
10	52	17	18		
30	59	17	18		
14	44	16	16		

JAIAS .....	"	2844	35	17	19
JAI1NLS .....	"	2744	48	14	14
JA3CEV .....	"	2475	33	16	17
JA3ASU .....	"	2442	37	16	17
JA1BYM .....	"	2160	31	14	16
JA6AKL .....	"	1836	26	13	14
JA9NB .....	"	1694	31	12	10
JA9ZM .....	"	1175	21	13	12
JA1DUH .....	"	1078	20	11	11
JA7BGU .....	"	360	12	9	9
JA7XV .....	"	252	9	7	7
JA5FQ .....	21	49,819	244	29	48
JA0SU .....	21	39,547	203	27	44
JA1EM .....	"	35,640	198	25	41
JA6BXA .....	"	23,659	158	24	35
JA6AKW .....	"	23,426	162	21	32
JA6PY .....	"	21,038	121	26	41
JA1DFQ .....	"	14,625	121	20	25
JA6HW .....	"	13,393	84	24	35
JA1ACA .....	"	8742	72	24	23
JA3FGE .....	"	6650	71	18	17
JA3EBE .....	"	6300	69	16	20
JA1DCY .....	"	5346	58	16	17
JA6PL .....	"	4140	45	18	18
JA4ACH .....	"	2875	45	10	13
JA1IRS .....	"	2860	52	10	10
JA1FAK .....	"	1288	24	12	11
JA1KXW .....	"	1248	23	13	11
JA3CZA .....	"	595	16	9	8
JA9FB .....	"	234	8	7	6
JA8BI/JA1	14	174,500	617	35	65
JA1BWA	14	141,546	548	33	60
JA2ANX .....	"	62,894	282	28	54
JA1BN .....	"	33,440	228	23	32
JA7JI .....	"	30,114	169	25	38
JA3AA .....	"	26,208	184	23	33
JA2JW .....	"	24,948	151	27	39
JA8GR .....	"	18,603	147	23	30
JA2DN .....	"	17,490	105	25	41
JA1BLC .....	"	16,740	130	21	24
JA6PN .....	"	16,320	120	26	38
JA1IFP .....	"	16,120	129	22	30
JA2PY .....	"	15,960	125	23	33
JA1CFD .....	"	13,413	97	22	29
JA1HOM .....	"	8541	101	19	20
JA1IZ .....	"	7650	80	20	25
JA8BB .....	"	7560	77	19	21
JA1HP .....	"	3975	61	13	12
JA1AJM .....	"	2592	46	12	15
JA1FHF .....	"	2574	32	16	17
JA6YBR .....	"	1012	22	10	12
JA0HC .....	"	308	30	7	7
JA4AGR .....	"	24	2	2	2
JA1AEA .....	7	76,125	329	25	50
JA3DDG .....	7	16,800	139	21	27
JA7XF .....	"	12,720	116	21	27
JA1FOP .....	"	10,120	103	18	32
JA2DCN .....	"	8844	88	19	25
JA3YBQ .....	"	8385	95	17	22
JA1CWZ .....	"	8073	91	17	22
JA7AKQ .....	"	7315	92	16	19
JA3CAF .....	"	5133	72	13	16
JA1IBX .....	"	3840	61	14	16
JA1YDU .....	"	3502	46	16	18
JA7BGT .....	"	2832	51	10	14
JA2BVS .....	"	2496	49	12	14
JA4AKL .....	"	1425	39	7	8
JA1FTL .....	"	700	24	7	7
JA2CBK .....	"	528	22	5	6
JA6BCV/1 .....	"	80	4	4	4
JA1HLR .....	"	72	5	4	4
JA3JM .....	3.5	1701	33	10	11
JA1HGY .....	"	735	16	9	12
KA7TB .....	14	19,894	151	22	36
Korea					
HL9KH .....	14	339,920	910	37	103
Lebanon					
OD5LX .....	A	60,066	156	45	96
Malaysia, West					
9M2GJ .....	14	9568	83	20	32
VS1LP .....	7	9090	92	18	27
Mongolia					
JT1CA .....	21	48,100	310	22	52
JT1AG .....	14	23,000	218	20	30
JT1KAA .....	"	12,831	153	17	30
JT1AD .....	"	420	29	6	6
Pakistan, East					
AP5AH .....	A	3588	64	17	22
AP5CP .....	14	7987	81	20	29
Ryukyu Islands					
KR6ML .....	A	383,568	696	95	149
KR6BQ .....	"	144,256	380	72	112
KR6GA .....	"	26,873	194	34	43
KR6FG .....	21	21,982	151	25	33
KR6AH .....	14	36,334	241	28	46

Saudi Arabia					
HZ1AB .....	A	227,700	534	40	110
Union of Soviet Socialist Rep.					
Armenia					
UG6DL .....	14	7743	96	6	23
Asiatic					
UA9WS .....	A	173,571	444	35	106
UA9OM .....	"	32,336	151	32	54
UA9FM .....	"	17,812	102	25	48
UA9KXA .....	"	14,985	127	15	30
UA9FI .....	"	14,490	113	11	35
UW9OU .....	"	6784	72	20	33
UA9MR .....	"	4170	61	11	19
UA9VX .....	"	1080	47	8	12
UA9VB .....	14	83,754	362	28	71
UA9WJ .....	"	67,140	272	25	65
UA9BZ .....	"	37,449	180	19	54
UA9XG .....	"	26,901	166	19	44
UA9WC .....	"	13,938	128	13	33
UA9TS .....	"	9588	77	16	31
UW9CS .....	"	8918	82	12	37
UA9HA .....	7	7175	99	12	29
UW9WB .....	3.5	6810	80	6	24
Azerbaijan					
UA0GF .....	A	28,008	274	35	37
UW0AF .....	"	22,260	140	26	44
UA0CE .....	"	4060	133	13	16
UA0SX .....	"	3108	132	12	16
UW0IK .....	21	3040	91	10	10
UW0IN .....	14	23,920	202	15	31
UA0YE .....	"	22,945	160	22	43
UW0IJ .....	"	17,850	163	15	27
UA0TD .....	"	4551	94	17	20
UA0GM .....	"	4400	56	16	24
UA0CA .....	"	3003	84	9	12
UA0GR .....	"	2068	57	11	11
UA0MK .....	"	1800	58	8	10
UW0IP .....	"	1710	45	8	11
UA0SU .....	7	12,825	135	15	30
Georgia					
UD6AM .....	A	140,745	319	49	116
UD6AX .....	"	13,900	102	16	34
UD6FA .....	"	11,603	103	11	30
UF6FE .....	14	27,236	224	9	35
Kazakh					
UL7HV .....	A	40,950	232	15	50
UL7CH .....	"	29,540	159	21	49
UL7GL .....	"	15,250	155	20	41
UL7CD .....	"	10,754	68	23	34
UL7JE .....	14	13,115	130	14	29
Kirghiz					
UM8FZ .....	14	27,728	101	30	82
Tadzhik					
UJ8AH .....	A	10,920	125	13	25
UJ8AF .....	14	935	21	7	10
Turkoman					
UH8BO .....	A	40,650	214	23	52
UH8DA .....	14	53,606	207	28	70
UH8BT .....	"	5130	64	13	25
UH8AA .....	"	135	8	4	5
Uzbek					
UI8AI .....	A	24,416	161	19	37
UI8LB .....	14	75,936	348	22	62

**Europe**

Aaland Islands					
OH0NI .....	A	3081	77	11	28
Austria					
OE5JK .....	A	183,524	464	50	144
OE1ET .....	"	11,396	52	36	41
OE1HGW .....	14	15,663	138	20	49
OE3LI .....	7	23,310	248	18	52
OE3TL .....	3.5	12,936	261	8	36
OE1WO .....	"	9264	158	12	36
Belgium					
ON4XG .....	A	20,817	156	26	55
ON4CK .....	21	56,052	254	28	53
ON4CE .....	"	63	9	3	4
ON5AX .....	14	19,529	179	19	40
ON5AZ .....	7	7276	363	5	29
Bulgaria					
LZ1CF .....	A	52,126	280	37	97
LZ1CW .....	21	25,344	200	20	46
LZ2BC .....	14	31,396	319	22	62

LZ2HK .....	7	4455	112	7	26
LZ2KRZ .....	"	2581	82	6	23
Channel Islands					
GC4LI .....	A	25,972	167	29	57
Czechoslovakia					
OK1ZL .....	A	474,978	778	95	206
OK1GT .....	"	292,494	626	77	169
OK3CAG .....	"	123,840	476	51	141
OK2PO .....	"	111,264	376	55	128
OK2QX .....	"	89,999	424	54	107
OK3SK .....	"	76,750	382	38	87
OK1SV .....	"	61,438	191	48	91
OK2LN .....	"	42,944	280	27	95
OK2BBJ .....	"	15,750	148	22	48
OK100 .....	"	11,799	113	23	46
OK1AGM .....	"	10,335	109	24	41
OK1AAZ .....	"	10,304	93	18	46
OK3CDZ .....	"	9315	100	21	48
OK2FN .....	"</				

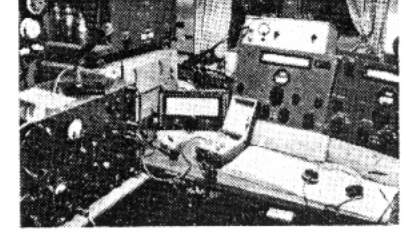
G3MWZ	13,419	116	23	40
G8DI	10,452	119	24	54
G3NVK	3608	89	12	32
G3HCT	21	70,035	316	26 61
G3NQD	9040	99	15	25
G3FLS	3654	54	12	17
G3PDI	14	48,438	268	22 56
G3SEF	15,333	177	18	39
G3HCL	7	29,323	317	19 52
G3EYN	21,888	283	15	49
G3FKM	16,206	140	20	54
G3MOJ	11,638	177	10	36
G3LZQ	10,045	158	9	32
G3PIT	3.5	6771	116	9 28
G3NFV	6179	154	7	30
G3RBP	1.8	1275	80	3 12

Finland				
OH2FS	A	185,744	412	64 144
OH1SH	A	142,494	464	59 128
OH4OP		36,359	265	28 75
OH3TA		33,201	155	41 78
OH5UQ		25,752	163	38 73
OH5RZ		18,816	140	30 54
OH1VR		15,604	114	28 66
OH2YL		4420	30	22 85
OH3NE		3225	65	17 26
OH2VZ		1271	23	15 16
OH3XZ		532	10	10 9
OH2BDB		77	9	5 6
OH1TN	21	36,714	181	25 62
OH9QV		576	28	4 14
OH2WI	14	18,088	142	22 46
OH2BAC		17,325	168	18 45
OH2VA		16,000	172	16 34
OH3NR		6820	82	13 42
OH2BAH		1568	49	7 25
OH3XQ		1232	19	16 12
OH9NV	7	8250	110	15 35
OH2UG		902	40	5 17
OH2BDA		651	30	5 16
OH5TJ		315	19	4 11
OH5PG		154	13	5 6
OH3XW		63	6	3 6
OH2UQ	3.5	13,818	260	9 38
OH3NY	1.8	576	65	2 7

France				
F8IH	A	179,220	382	64 142
F8TM		114,872	368	52 121
F3PK		63,468	248	44 79
F2PO		35,816	218	31 57
F3JL		22,344	136	32 44
F9BB		5320	69	12 28
F3BX		3297	89	15 27
F8VO	14	1421	31	10 19
F7DB	A	90,016	415	34 82
F7CP		4650	44	19 31

Germany				
DL7AA	A	337,595	503	89 180
DJ2AA	A	319,648	622	74 150
DJ5BV	A	183,799	438	68 149
DL6EN	A	130,530	433	39 75
DJ2HH	A	127,872	369	61 131
DL8FR		115,992	343	59 120
DJ1QP		115,388	301	65 117
DJ4DN		115,368	355	57 127
DM2ATL		112,400	316	60 140
DL1JF		99,000	273	59 121
DL0MZ		97,188	400	53 103
DL9KP		85,512	257	54 114
DL7DF		84,711	214	62 125
DL8BS		82,467	337	46 107
DL7BK		79,980	223	58 128
DL7CW		73,786	285	48 110
DL7BQ		68,249	262	45 94
DM2ATD		66,040	370	41 86
DJ7IK		65,919	373	37 92
DM2AQL		53,448	241	46 85
DL0DX		48,060	288	39 69
DM2AND		47,740	227	46 94
DJ2IB		46,930	190	44 86
DL3JV		46,125	195	44 79
DL7CS		43,489	148	53 104
DJ5GG		39,165	171	40 65
DL7BA		37,506	148	38 56
DJ8IF		37,152	233	33 75
DJ3WU		33,660	193	30 69
DJ7HF		26,877	122	38 55
DJ2HI		26,448	160	35 52
DL8AJ		25,756	158	32 62
DL7CF		23,920	132	31 61
DJ1UE		21,146	166	24 73
DJ3XK		19,434	91	33 46
DL8DD		18,792	132	26 55
DJ7BM		18,565	150	22 57
DL1ES		18,480	161	26 62
DL3CM		18,392	103	30 58

DL1XS	17,458	121	29	57
DL1OW	15,836	127	27	47
DL3TW	14,336	88	29	35
DL8DL	13,846	139	24	62
DJ1WT	13,284	69	35	47
DJ6LN	12,656	113	21	35
DM4YPL	10,624	95	28	55
DL6OS	10,318	94	27	40
DL1IP	10,240	83	20	44
DL9XY	8052	71	28	38
DM4KL	7852	121	13	39
DM3PBM	6554	41	26	32
DJ1OJ	5883	85	19	34
DM4PL	5671	52	20	33
DL1EA	4592	40	19	22
DM3RBM	4176	31	21	27
DJ3BB	3840	45	18	30
DL7AU	3400	60	16	34
DM2CEL	2790	60	10	21
DM2BDH	2688	44	13	35
DM3LME	1824	39	10	22
DM3SBM	1680	31	13	22
DM3ZWH	1260	31	12	16
DJ2UU	728	25	9	19
DM3SF	476	24	6	8
DM3XD	380	18	5	14
DJ1ZG	21	77,794	295	32 65
DL1IA		14,632	90	23 36
DL3ZI		3914	44	17 21
DL6DF		3456	62	12 15
DL1QT		3003	35	14 19
DJ7RJ		2970	37	16 14
DJ4OP		1485	19	10 17
DL6PE		920	20	9 11
DJ0IK	14	132,600	464	36 84



VP8GQ — Operating position and rhombic used by Pete to win the PVRC Trophy for the highest score on a single band. That's a mighty cold outlook, but oh those wide open spaces.

DJ5VQ	14	38,994	200	31 66
DL1GL		31,065	130	29 66
DJ1RZ		25,200	156	27 53
DM2AYK		24,618	188	20 46
DJ5DA		21,750	120	22 53
DJ6EV		17,385	168	15 46
DJ5JM		10,659	97	18 33
DL1LZ		7192	55	18 44
DJ1VI		6396	71	15 26
DM3MSF		4200	57	14 26
DL9NF		2584	47	11 23
DM2AOE		48	4	4 4
DL1EE	7	47,502	331	25 62
DJ5JH		28,274	310	18 49
DJ2SR		16,215	164	20 49
DJ1ZN		11,475	152	13 38
DL1KS		4700	59	14 33
DL1TA		1092	52	4 17
DL1JW	3.5	22,513	325	8 39
DJ2YA		19,488	327	9 39
DJ3KR	1.8	2688	199	3 11
DJ5GW		912	76	2 10
DL1YA		84	17	2 4
DL4XS	14	15,870	116	22 47
Greece				
SV0WAA	A	17,760	226	24 56

Hungary					
HA7LF	A	41,352	190	20 61	
HA9HN	A	26,986	170	23 80	
HA1SD		18,105	150	27 58	
HA1VA		13,840	139	22 58	
HA5KQD		7614	114	7 40	
HA5KFZ		7203	131	12 27	
HA8CZ		7076	103	13 49	
HA1LH		6368	104	8 40	
HA6NC		5429	65	19 41	
HA9PB		3861	97	12 27	
HA4YL		3616	125	9 23	
HA1KVM		3422	71	13 26	
HA1ZB		3182	56	11 26	
HA2MJ	21	5320	60	6 34	
HA5KAC	7	1740	29	6 14	
HA3GF	3.5	5482	195	7 20	
HA9OT		4347	166	4 23	
HA3GA		4176	141	5 24	
HA9KPE		2700	107	5 20	
HA5AI		2622	115	4 19	
HA5DA		2300	86	5 20	
HA9PH		1780	89	4 16	
HA2MU		868	72	4 10	
HA0LG		780	59	4 11	
HA1SM		70	15	1 4	
Iceland					
TF3AB	A	35,958	223	23 55	
Ireland					
E15AJ	14	58,615	373	26 69	
Italy					
I1KE	A	75,348	350	40 86	
I1WSG		44,608	220	28 54	
I1DFD		31,592	160	30 58	
I1HL		3698	68	15 28	
I1SF	21	11,172	83	25 32	
I1GO		10,542	119	16 26	
I1DBK	14	21,252	102	29 63	
Malta					
ZB1BX	A	94,572	352	43 99	
Netherlands					
PA0LOU	A	104,463	328	52 107	
PI1PT		61,625	300	41 84	
PA0PAN		27,144	165	32 55	
PA0PN		16,400	156	18 64	
PA0FLX		13,650	141	23 47	
PA0SNG	14	14,586	177	15 36	
PA0VB	3.5	14,514	295	8 33	
Northern Ireland					
GI30TV	14	11,818	202	11 27	
Norway					
LA8D	A	54,035	330	54 73	
LA5HE	A	52,592	176	54 98	
LA6U		36,156	157	39 99	
LA2Q		22,272	193	25 62	
LA8SG		13,659	116	25 62	
LA8WG		10,857	122	23 54	
LA9AF		8325	93	25 50	
LA7KI	21	1824	31	11 21	
LA4LG	7	2125	81	5 20	
Poland					
SP6FZ	A	132,158	451	53 116	
SP6RT		85,000	352	47 124	
SP2IU		34,998	229	30 84	
SP3PK		18,312	95	29 55	
SP9PT		15,132	94	33 64	
SP2BF		6060	69	20 44	
SP9AGS		2697	46	8 23	
SP6PH		1204	39	6 22	
SP9RF	21	36,980	163	28 58	
SP9ADU		16,147	102	22 45	
SP5YC		15,190	83	29 46	
SP5ZA		11,160	76	22 40	
SP1AAY		1368	28	8 10	
SP8YA	14	48,160	311	26 60	
SP5AFL		39,520	276	24 56	
SP4JF		22,507	198	23 48	
SP3AK		13,328	133	17 39	
SP6AEG		8918	129	18 31	
SP6SO		4830	90	10 25	
SP5AIB		3486	49	10 32	
SP5AHW		2000	36	10 15	
SP6AT	7	54,697	435	21 62	
SP4TW		16,986	269	15 42	
SP2RS		4810	110	8 29	
SP9QJ		2425	87	5 20	
SP4AAZ		375	25	4 11	
SP3AAI		231	19	4 7	
SP5AHZ	3.5	13,373	289	9 34	
SP7JX		9546	197	9 34	
SP8MJ		7776	238	5 27	
SP5AHL		1349	64	5 14	

Y02BU	A			
Y03CR	A			
Y06XU				
Y06AW				
Y02BB				
Y07DO				
Y08KA				
Y04KBT				
Y05DH				
Y04KCA				
Y08OU				
Y06EZ				
Y03JF				
Y07DL	14			
Y04SA				
Y04AH				
Y03JW				
Y08AP	7			
Y09IA	7			
Y06XA				
Y03AC				
Y04XF				
Y04CT				
Y09PH				
Y05AF				
Y04YR				
Y05LP				
Y02IR				
Y07VS				
Y04ZV				
Y07VQ				



90	20	61
70	23	80
50	27	58
39	22	58
14	7	40
31	12	27
03	13	49
04	8	40
65	19	41
97	12	27
25	9	23
71	13	26
56	11	26
60	6	34
29	6	14
95	7	20
66	4	23
41	5	24
07	5	20
15	4	19
86	5	20
89	4	16
72	4	10
59	4	11
15	1	4
23	23	55
73	26	69
350	40	86
220	28	54
160	30	58
68	15	28
83	25	32
119	16	26
102	29	63
352	43	99
328	52	107
300	41	84
165	32	55
156	18	64
141	23	47
177	15	36
295	8	33
nd		
202	11	27
330	34	73
176	54	98
157	39	99
193	25	62
116	25	62
122	23	54
93	25	50
31	11	21
81	5	20
451	53	116
352	47	124
229	30	84
95	29	55
94	33	64
69	20	44
46	8	23
39	6	22
163	28	58
102	22	45
83	29	46
76	22	40
28	8	10
311	26	60
276	24	56
198	23	48
133	17	39
129	18	31
90	10	25
49	10	32
36	10	15
435	21	62
269	15	42
110	8	29
87	5	20
25	4	11
19	4	7
289	9	34
197	9	34
238	5	27
64	5	14

<b>Romania</b>			
Y02BU	A	252,250	672 82 168
Y03CR	A	132,645	459 50 135
Y06XU	"	111,322	381 51 103
Y06AW	"	107,361	524 43 108
Y02BB	"	96,396	298 57 117
Y07DO	"	71,455	325 45 109
Y08KGA	"	38,198	261 29 84
Y04KBT	"	34,515	222 28 89
Y05DH	"	16,065	138 24 39
Y04KCA	"	6,174	100 17 42
Y08OU	"	4,960	94 13 27
Y06EZ	"	3,280	66 10 30
Y03JF	"	3,116	120 12 29
Y07DL	14	48,668	288 26 66
Y04SA	"	16,240	196 16 40
Y04AH	"	8,748	112 14 40
Y03JW	"	5,029	107 12 35
Y08AP	7	38,216	450 17 51
Y09IA	7	19,470	247 15 44
Y06XA	"	17,010	286 14 40
Y03AC	"	9,604	196 13 36
Y04XF	"	6,292	121 12 32
Y04CT	"	6,120	166 7 27
Y09HP	"	5,652	149 9 27
Y05AF	"	5,256	126 10 26
Y04YR	"	5,069	118 7 30
Y05LP	"	2,744	92 6 22
Y02IR	"	2,675	110 5 20
Y07VS	"	2,565	100 5 27
Y04ZF	"	1,554	70 6 15
Y07VQ	"	1,525	48 7 18
Y03ZM	"	1,380	55 6 17
Y03QO	"	860	39 5 15
Y07VG	"	525	35 5 10
Y09CN	3.5	3612	123 5 23
<b>San Marino</b>			
M1M	A	435,830	1085 63 142
<b>Scotland</b>			
GM3JDR	14	41,325	375 24 51
<b>Sicily</b>			
IT1AGA	7	7980	156 7 31
<b>Spain</b>			
EA2CR	A	7008	92 20 28
EA3KT	14	8325	178 9 28
<b>Switzerland</b>			
HB9JG	A	398,336	594 78 178
HB9ZY	"	222,578	418 70 148
HB9MO	"	140,544	363 59 124
HB9TT	"	58,022	305 40 94
HB9SJ	"	14,499	135 25 56
HB9UD	"	9000	75 29 46
HB9QA	"	1802	51 12 22
HB9DX	21	852	26 6 6
HB1AAI	14	20,650	159 24 46
<b>Sweden</b>			
SM5BPJ	A	418,170	732 86 232
SM5CCE	A	235,458	500 75 179
SM5CEU	"	80,104	311 44 108
SM5AME	"	38,610	196 41 89
SM3AF	"	36,296	246 28 76
SM5CON	"	34,340	253 24 77
SM5API	"	29,498	251 28 70
SM7AXP	"	17,078	149 23 60
SM5AFE	"	15,876	126 22 62
SM5CIK	"	9656	88 20 48
SM2CZT	"	9291	114 16 41
SM5ACQ	"	7155	107 15 38
SM5UQ	"	6768	132 11 36
SM5AIO	"	6720	93 20 40
SM5BOE	"	2925	54 14 31
SM5CVH	"	2120	37 27 13
SM5KV	21	25,520	136 24 56
SM6CAW	"	7840	71 18 31
SM7TV	"	5814	59 15 23
SM3CNN	"	1269	21 13 14
SM5AJR	"	880	17 10 10
SM7BUE	"	336	10 6 8
SM5BEU	14	51,085	314 26 59
SM2ALU	14	51,030	304 25 56
SM7BNL	"	26,939	135 29 50
SM4AD	"	15,458	151 17 42
SM1CXE	"	10,812	118 18 35
SM6ARH	"	10,712	140 14 38
SM5CXF	"	7668	81 16 38
SM7TQ	"	7600	68 16 34
SM6WT	"	6431	57 21 38
SM3AU	"	2387	42 8 23
SM5DZH	"	2080	61 6 14
SM6JY	"	1836	52 7 20
SM6CZU	"	1242	33 8 19
SM3WB	"	713	28 6 17
SM5AWF	"	700	25 7 13
SM3TW	7	30,459	259 20 51
SM3PZ	7	29,260	331 22 48

SM5CAK	"	27,216	329 16 47
SM3VE	"	23,072	357 14 42
SM6DED	"	9945	170 10 35
SM5ARQ	"	7638	201 8 31
SM3DGE	"	2450	102 5 20
SM5UU	"	1566	36 7 22
SM5BUT	"	560	31 4 16
SM3BQH	"	468	25 5 13
SM5MX	3.5	12,015	249 7 38
SM5BHW	"	1288	55 5 18
<b>Wales</b>			
GW3MRI	A	8802	135 13 41
GW3IOI	14	12,087	105 18 33
<b>Yugoslavia</b>			
YU3NP	A	4235	69 17 38
YU3BHI	21	2214	43 10 17
YU4JOP	7	34,866	318 20 58
YU2NEG	"	9588	163 10 37
YU1SF	"	9495	202 9 36
YU3NET	"	7728	150 10 36
YU1DVW	"	7138	116 9 34
YU3NCP	3.5	4080	136 5 25
<b>Union of Soviet Socialist Rep.</b>			
<b>European</b>			
UA1FJ	A	87,435	408 45 100
UA3YR	A	44,814	172 44 110
UA6YD	"	32,766	262 21 65
UA6MF	"	27,300	153 33 67
UA3TA	"	22,578	134 28 78
UA3RO	"	19,272	178 23 65
UA4QJ	"	18,012	141 24 55
UA1TL	"	16,875	103 30 45
UA3QI	"	14,999	193 15 38
UA1ND	"	8064	126 15 41
UW3NE	"	7750	76 23 39
UA3EU	"	4425	39 21 38
UA3BX	"	3159	71 11 28
UA1MA	"	2080	43 13 20
UA3OI	"	595	25 6 11
UA1KMF	"	510	10 7 10
UA1DY	"	168	12 5 8
UA6FJ	21	22,995	251 19 44
UA6FD	"	10,971	159 13 40
UA3NC	"	7000	100 15 35
UA1DI	"	936	23 10 14
UA4PA	14	104,490	445 36 93
UA3DV	14	44,064	268 27 69
UA4QA	"	23,529	170 19 50
UA4IB	"	16,640	182 20 45
UA1IN	"	15,886	231 14 33
UA3BK	"	14,674	175 17 41
UA1CI	"	11,816	111 16 40
UA3NG	"	10,392	122 14 44
UA4DF	"	8216	94 16 36
UA1NA	"	5625	66 14 28
UA4CN	"	4214	66 11 32
UA6FC	"	1643	33 11 20
UA1KAC	"	1276	32 9 13
UW3EE	"	828	23 6 12
UA1KMD	"	756	29 6 12
UA3QV	"	735	25 4 17
UA1DH	7	32,629	311 20 47
UA4AZ	"	3332	77 8 26
UA3JD	"	1944	72 6 21
UA6GJ	"	1224	72 5 12
UA1RV	"	551	21 5 14
<b>Kaliningrad</b>			
UA2AC	A	45,217	321 23 80
<b>Lithuania</b>			
UP2NR	14	1052	48 6 13
UP2AW	7	3330	709 6 24
<b>Moldavia</b>			
U05BM	A	47,744	201 44 84
U05IT	"	17,080	204 21 49
U05WS	"	5738	111 13 25
U05RO	"	5184	74 18 36
<b>Ukraine</b>			
UB5CI	A	512,652	814 91 268
UB50D	A	146,879	515 52 139
UT5HP	"	68,760	376 31 89
UT5EH	"	55,692	402 23 79
UT5CJ	"	29,925	220 24 71
UB5ZE	"	21,985	283 11 46
UT5BP	"	9586	147 14 38
UB5VK	"	5621	65 8 21
UT5BX	"	2464	27 12 20
UB5QA	"	704	14 9 12
UB5CG	21	43,104	237 29 67
UB5WF	14	123,299	514 35 86
UB5LM	"	19,996	176 17 50
UT5EW	"	3654	57 14 28
UT5BW	"	1829	35 8 23
UT5RB	7	30,312	331 19 53
UB5EE	"	16,408	228 13 43

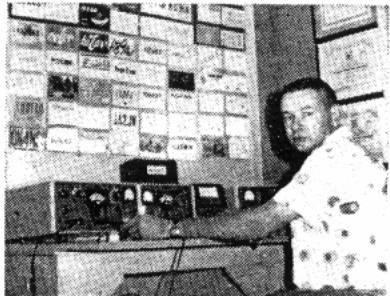
UB5IF	"	10,584	159 11 38
UB5DT	"	2900	92 7 22
UB5YN	"	81	9 3 6
UB5MZ	3.5	24,072	426 9 42
UB5WJ	"	12,341	283 7 34
UB5WO	"	5022	157 5 26
UT5TG	"	4824	124 6 30
UT5GS	"	2754	102 6 21
<b>White Russia</b>			
UC2AR	A	25,612	261 25 51
UC2WP	"	5904	105 14 34
UC2BB	7	105	17 2 5
<b>Oceania</b>			
<b>Australia</b>			
VK6RU	A	509,615	784 71 156
VK2GW	A	333,776	631 65 119
VK2PV	"	151,996	344 60 98
VK4TY	A	100,540	324 43 67
VK7SM	A	64,260	222 46 62
VK3ZR	A	40,743	183 34 47
VK2RA	"	15,128	89 24 37
VK3RJ	21	16,368	126 18 30
VK5KO	21	11,856	90 18 30
VK4SS	21	7935	115 10 13
VK5JT	"	2128	60 9 10
VK3APJ	14	264,775	798 33 87
VK3TL	"	92,708	346 30 68
VK2APK	14	47,520	204 31 59
VK5WC	"	5811	66 17 22
VK4EL	"	4600	38 17 29
VK3XB	7	16,887	151 16 23
<b>Caroline Is., East</b>			
KC6BK	14	50,052	222 32 54
<b>Caroline Is., West</b>			
KC6BO	A	351,925	703 72 103
<b>Cook Islands</b>			
ZK1AR	A	175,560	526 51 69
<b>Fiji Islands</b>			
VR2DK	A	102,442	297 51 80
VR2EH	"	85,500	310 55 70
			
W2PCJ—Larry and his partner Andy, WB2CKS, junior division multiwinner for the 2nd district. Andy was one of the operators at HA5KBA away back in our 1955 contest, and is very happy to be in our annual "brawls" again.			
<b>Guam Island</b>			
KG6AOX	14	43,996	245 27 41
<b>Hawaii</b>			
KH6EPW	A	417,783	1017 65 76
KH6FAH	"	157,384	551 46 57
KH6EKO	14	76,230	381 29 41
W7UXP/ KH6	21	35,244	268 19 25
<b>New Zealand</b>			
ZL2AWJ	A	361,200	728 72 103
ZL1AIX	14	255,397	692 35 92
ZL2GS	3.5	4368	67 12 12
ZL4BO	"	3969	73 9 12
<b>Papua Territory</b>			
VK9GL	14	32,928	239 24 32
<b>Philippines</b>			
DU7SV	A	132,699	525 39 50
<b>South America</b>			
<b>Argentina</b>			
LU5AQ	14	134,152	400 33 84
LU6FA	"</		



Bolivia				
CP3CN	A	9112	101	21
CP5EZ	14	123,497	404	31
Brazil				
PY1ADA	A	113,752	331	47
PY7ACQ	"	20,540	101	29
PY7GV	"	6174	86	18
PY7NJ	"	3990	47	13
PY4ABH	21	90,528	400	27
PY5EG	"	19,600	141	16
PY4GA	14	243,880	641	35
PY1NFC	"	59,328	291	22
PY4AYO	"	16,430	97	26
PY7K1	"	2838	43	10
PY2BNX	"	589	11	9
PY4AP	7	14,720	113	18
Chile				
CE1AD	A	210,840	606	51
CE3AG	14	271,250	740	36
CE2CR	"	13,020	119	18
Colombia				
HK7BE	A	152,308	537	46
HK3RQ	"	140,154	511	42
HK7Z1	28	2925	68	8
HK3HY	14	20,650	202	17
HK3NQ	"	5586	49	17
Netherlands Antilles				
PJ2AE	A	35,280	266	21
Paraguay				
ZP9AY	A	50,987	264	31
South Orkneys				
VP8GQ	14	356,760	1028	34
Uruguay				
CX10P	A	48,650	197	32
CX1AAC	"	8253	109	30
Venezuela				
YV1DP	14	146,940	797	18
YV5BOA	"	56,109	327	18
YV5ANT	7	58,459	370	14

### MULTI-OPERATOR Single Transmitter North America

United States				
W2PCJ		389,890	448	96
		(W2PCJ, WB2CKS)		
W3ADO		362,881	484	89
		(K6ILB, K80TJ, K9BCK)		
		K9MBQ, K0KHP, K0DQI)		
K4LIQ		482,630	512	100
		(K4LIQ, K4SXT)		
W6RW		526,960	656	112
		(W6RW, WA6HGC)		
WA6SBO		300,312	427	103
		(WA6SBO, W6HAW,		
		WA6DNM, W6JVA)		
WA6EPQ		220,497	391	83
		(WA6EPQ, WA6IPY)		
W6DFY		204,268	333	91
		(W6DFY, W6ANN)		
W7BSW		40,128	171	40
		(W7BSW, W7DAN)		
W8UC1		89,208	185	66
		(W8UC1, W8IRY)		
W8SH		88,060	195	66
		(K8MFO, K8VQP, WA8AET)		
Alaska				
KL7BZO		175,848	755	45
		(KL7BZO, KL7AQU)		
Canada				
VE2CSS		4675	88	11
		(VE2BQT, VE2AZQ)		
VE4JB		40,652	331	55
		(VE4JB, VE4MF)		
Asia				
Israel				
4X4MJ		4360	52	16
		(Club Station)		
Union of Soviet Socialistic Rep. Club Stations				
Armenia				
UG6KAA		7884	80	12
Asiatic				
UA9KQA		409,370	637	63

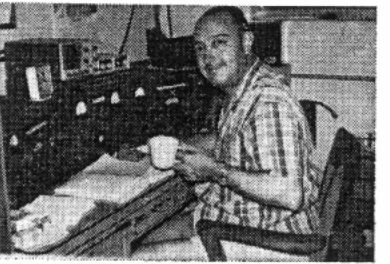


KH6EKO—Hal shut down his station almost immediately after the contest and headed back to the States, 1490 Russell Way, Thornton, Calif. for those of you who need his QSL.

UA9KTE	87,720	351	26	60
UA9HRM	16,492	165	11	27
UA9ML	4715	57	18	23
UA9KJA	2294	44	10	21
Azerbaijan				
UD6KAB	13,617	101	15	36
UD6KGF	9102	94	10	27
Georgia				
UF6KAE	22,659	202	9	30
Kazakh				
UL7KBK	98,910	307	40	86
Kirghiz				
UM8KAA	405,720	736	62	168
UM8KAB	63,632	364	31	66
Tadzhik				
UJ8KAA	226,219	685	32	87
Turkoman				
UH8KAA	29,295	180	22	41
Uzbek				
UI8KHA	3618	65	9	18

### Europe

Bulgaria (Club Stations)				
LZ1KSZ	468,540	1396	71	203
LZ1KSP	177,632	622	52	182
LZ1KPG	92,218	539	28	70
LZ1KBA	75,966	361	40	87
LZ1KSA	14,100	205	12	48
LZ2KAF	12,744	149	12	42
LZ2KKZ	7020	109	10	42
Czechoslovakia (Club Stations)				
OK1KUD	251,505	735	62	145
OK3KAS	223,872	937	54	138
OK1WR	160,782	450	64	147
OK2KMB	66,816	341	41	75
OK2KJU	46,860	208	41	91
OK2KOV	45,630	306	31	86
OK3KGI	20,286	199	21	48



YV1DP, Greg takes time out for a coffee break during a lull in the 14 mc pile-up.

OK1KNT	16,296	160	23	61
OK1KTL	10,608	118	26	52
OK1KKH	5856	203	5	27
OK1KNH	4410	114	8	27
OK1KKG	3264	105	7	25
OK2KGV	682	77	2	9
England				
G3SBI	67,035	323	40	83
		(G3SBI, K3RIK)		
Finland				
OH5UX	89,388	380	41	115
		(OH5UX, OH5UY)		
OH2AF	18,105	101	32	53
		(OH2BG, OH2VB)		
OH6AA	5190	116	14	28
		(OH6OW, OH6TM, OH6UX)		
Germany				
DL9VZ	221,135	468	69	166
		(DL9VZ, DL3BL, DL3UT,		
		DJ2SK, DJ2VO, DJ6YT)		
DL3YQ	171,045	481	59	122
		(DL3YQ, DL9VN, DJ2JE)		
DL9JL	155,358	509	60	129
		(DL1CO, 9JL, DJ4XS,		
		4XW, 5PA, 8EQ, 8GB)		
DL0FT	151,096	391	64	124
		(DJ5HL, DL1GW, 1HA,		
		1HH, 3MN, 6GL)		
DJ7SW	143,325	413	62	133
		(DJ7SW, DJ5AZ)		
DJ4FZ	88,086	342	52	107
		(DJ4FZ, 4SO, 6TK, 6UK)		
DM3EN	68,838	289	55	94
		(DM2AVB, DM3MJI, DM3VDJ)		
DM3ML	66,920	288	43	97
		(DM3GML, 3JML, 3NBB, 3WML)		
DL0NS	53,580	304	36	78
		(DJ4AN, 6ZW, DL6QV, 9YP)		
DL9RP	50,760	192	45	90
		(DL9RP, DJ3YU)		
DL0BT	48,430	175	48	97
		(DL3AV, DJ1FE, 3BB, 6SU)		
DL8CM	36,900	161	40	60
		(DL8CM, DL8CH)		
Hungary (Club Stations)				
HA5KBB	251,894	681	62	140
HA1KSA	220,626	646	62	144
HA5KBP	210,125	664	58	147
HA5KFR	164,700	537	57	126
HA3KGC	155,880	587	55	125
HA6KVB	48,312	298	35	87
Italy				
I1ALU	67,328	312	38	90
		(I1ALU, I1VN)		
Northern Ireland				
G13GAL	188,442	603	50	121
		(G13GAL, G13AXI, G13HXV,		
		G13KYP, G13JXS, G15UR)		
Norway				
LA1H	195,858	704	43	119
		(LA1LF, 3UH, 7KH, 90I)		
Poland				
SP7LA	344,448	792	70	164
		(SP5ADZ, SP5BR, SP7LA)		
SP8KAR	87,200	351	50	110
		(Club Station)		
Roumania (Club Stations)				
Y02KAB	55,930	326	33	86
Y06KAF	50,830	344	24	91
Y03KSD	47,502	322	37	80
Y06KBM	22,725	237	22	53
Sweden				
SM5ARR	321,280	681	69	182
		(SM5ARR, SM5BDY, SM5CZQ)		
SM5BAU	316,160	717	78	182
		(SM5BAU, SM3AVW, SM5BCE,		
		SM5BDS, SM5BTU)		
SM6CSC	211,768	564	70	136
		(SM6CSC, GADE, 6BJI,		
		6BSK, 6CAS, 6CKV, 6CWP)		
SL5DE	20,720	330	12	44
		(SM5AFH, SM7CUY)		
SL2AD	5220	142	7	29
		(SM2COT, SM3AFR, SM3CNN,		
		SM4CIP, SM5XG)		

[Continued on page 83]

VACUUM to silicon equipment forced by the high-power transistors instances, however, and probably if more data available arrangements for installation in an apparatus.

Realizing the inghouse Electronics company into silicon rectifier circuits different conditions. This safety margin such a device Westinghouse pioneers in the rectifiers. The for Ozzie, no

Before disc take a look a by the use of smaller than saving of space for other comp to a particular as needed with rectifiers gener tions.

Since they a silicon units e three filament circuit used), with their asso radiation from is no longer a inet enclosure cooler.

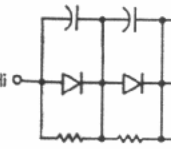


Fig. 1—Integrating stacks. Uniform voltage across the diodes minimize excessive heat due to transient diodes, since with diodes near the on those toward elements are not engineered for

fixed resistor can be used once the correct value is found. Make these adjustments with the R.F. GAIN control full on.

### Conclusion

Most projects go through a de-bugging period and you may want to experiment and change the circuit. If more tubes are added it would be desirable to use the next size larger power transformer. The present circuit is operating at full capacity of the transformer now. Think twice before you change any of the circuits especially the r.f. stage. This is the most critical stage for oscillation. The i.f. stages are stable when used

with the cathode resistors given and a 33K 1/2 watt in series with each grid. It was necessary to increase the cathode resistors to more than the values given in the tube manual because there is no tap on the i.f. transformers to lower the input grid impedance. There is more than enough gain and it maybe necessary to shunt a small value capacitor from the product detector grid to ground to prevent overload.

Remember to put a good ham band antenna on the receiver as it is a low impedance input and you will find it an inspiration to tune. It sure enabled me to get away from the QRM and have a nice QSO. I'm glad I built it! ■

### 1963 W.W. C.W. Contest [from page 38]

Phone contest we find ourselves a bit short of the 2000 goal we had set out to make this year. However this is still a 6% increase over last year so we are slowly getting there. Until somebody can prove different, and we defy anyone to do so, we still say this is the greatest DX Contest in the world. Not only in the number of entries, but also in the countries represented and the awards given out. There will be 357 sent out for this section of the contest, a total of 646 when added to the phone awards.

At this time it is also fitting that we again express our thanks to the Trophy donors whose

generosity had added "Class" to our contest and given the top stations something to shoot for.

The last paragraph as usual is reserved for the members of our Committee, who have devoted so much of their time and without whose untiring help this contest would not be possible. This year we added a new member to the staff, Arnie Trossman W2DTJ, and of course the old reliables, Ben Lazarus W2JB and Andy Malashuk W1GYE. In turn, all of us are grateful to Toby Pollack for opening all the mail, answering your requests for log sheets and neatly filing all the logs in their proper order.

That's it for this year fellows, it's been a rough one. 73 for now, Frank, W1WY

### C.W. Results

[from page 44]

Yugoslavia (Club Stations)				
YU1BCD	126,885	510	47	118
YU2AKL	52,206	313	31	82
Union of Soviet Socialist Rep. (Club Stations)				
Estonia				
UR2KAN	28,124	226	24	65
European				
UA4KHW	345,184	816	73	195
UA3KWA	232,804	588	67	175
UA3KQB	202,713	610	62	135
UA6KTB	142,506	572	48	134
UA4KPA	64,629	377	31	98
UA3KFA	58,708	259	32	76
UA1KIA	45,252	308	31	77
UA3KND	44,105	302	35	83
UA3KNB	32,334	290	37	65
UW4KHW	31,824	240	31	71
UA3LO	28,536	234	21	66
UA3KYA	24,645	135	28	65
UA3KYI	18,540	217	14	46
UA3KFB	11,423	212	21	65
UA3KHA	9450	133	15	35
UA1KCU	8159	173	13	28
UA4KHA	7749	102	18	23
UA3KZO	7722	146	8	31
UA3KRO	6848	161	6	26
UA4KNA	6390	92	14	31
UA1KDJ	5600	110	13	22
UA1KAI	3252	55	8	20
UA3KBD	2550	51	10	20
UA1KDY	774	41	5	13
UA3KET	320	20	4	12
Kaliningrad				
UA2KAW	28,184	303	16	48
Karelo-Finnish Rep.				
UN1KAA	770	35	6	16
Latvia				
UQ2KAE	53,214	397	23	75
UQ2KCC	16,006	309	15	38
Lithuania				
UP2KCF	50,512	336	25	87
Ukraine				
UB5KAI	147,920	540	44	128
UB5KED	127,368	448	47	136
UB5KFF	75,744	372	37	107

UB5ARTEK	22,041	155	34	59
UB5KDS	21,028	351	13	45
UB5KBA	17,499	205	14	43
UB5KHQ	2518	61	10	24
UB5KUJ	2072	45	13	24
UT5KGA	1711	57	7	22

White Russia				
UC2UB	13,280	285	9	31
UC2KSA	11,764	129	18	50
UC2KAJ	3572	79	12	26
UC2KAD	3472	105	7	21

### Oceania

Australia				
VK5NO	945,248	1199	86	185
				(VK5NO, VK5ZP)

Guam				
KG6AAY	730,598	1048	89	153
				(K6SDR, WA6EHL)

Hawaii				
KH6DSW	52,128	360	25	23
				(KH6DSW, KH6BIF)

### South America

Venezuela				
YV5AJ	451,605	944	58	107
				(Club Station)

### MULTI-OPERATOR Multi-Transmitter North America

W3MSK	1,304,707	1181	99	278
				(K3EST, W3FYS, W6HOH/3)
W6VSS	1,288,003	1169	130	272
				(W6VSS, 6FAY, 6GFE, 6UED, K6EVR, 6JIC, W8B:P)
K2GL	1,097,168	1013	111	265
				(K2GL, 2TXC, W1GYE, W2DTJ, 2GLM, 2IWC, W6KFV, K1ZVU)
W4BVV	744,820	778	107	227
				(W4BVV, WA4IVL, W4NUV, W9SZR)
W3VKD	614,433	664	97	230
				(W3VKD, W3AOH, W3LMM, W3UHN, K3DKD)

### Asia

UA9KDP	1,274,085	1356	94	251
				(UA9DN, UW9CP, UW9CK, UA9-9892)

### Europe

DJ3JZ	1,036,980	1343	97	218
				(DJ3JZ, DJ1BP, DL1CR, DL3AO, DL9CI)
OH1AA	483,336	929	82	212
				(Club Station)
OH2AA	297,620	850	58	172
				(OH2BR, 2KH, 2LP, 2SB)
4U1ITU	55,545	305	34	71
				(HB9UD, DL1YJ, 4X4KK)
G3SNS	41,030	339	26	84
				(G3MSV, G3OLN, G3PEO)
GW3KAB	29,516	211	31	63
				(G3KAB, G3JUL, G3RYV)
SM5DKH	28,866	230	25	77
				(SM5DKH, SM5BGK)

### South America

CX2CO	1,456,380	1718	93	197
				(CX2CO, CX7CO)

Our thanks to the following stations for sending us their logs, they were very useful for checking purposes: W11B, W1RAN, W1RWU, K1VUT, W2AZX, W2GT, W2PEO, W2WZ, W3UHN, W4DLA, K4RQE, W9MXP, K0ZBO, VE1AE, VE3AGC, VE6VO, OK1AAW, OK1ABP, OK1AHZ, OK1AIJ, OK1AMS, OK1ARN, OK1CC, OK1IJ, OK1IQ, OK1JX, OK1KHG, OK1KLX, OK1KOB, OK1ITJ, OK1MG, OK1NK, OK1ZO, OK2BCB, OK2BEI, OK2BFT, OK2BFX, OK2OQ, OK2KJX, OK3KTO, OK2KZC, OK3QQ, OK3SL, OH6TM, OH5VA, OH5VD, OH8QJ/mm, F2GO, DM2ACB, DM2ADC, I1ER, L2S, LA5S, LA7H, SM3VE, SM5DXE, SM7MS, SM7QY, VK3QV, VK5KQ, ZL3IS, YO4-2526.