

# 1977 CQ World-Wide DX Contest CW Results

BY BOB COX, K3EST\*, and LARRY BROCKMAN†, N6AR

**P**eople sure like to have a good time. The 1977 CQ CW Contest attests to this fact. In spite of less than normal conditions, interest and activity were never higher. We received a total of 2,324 c.w. logs. A whopping 12% increase over last year. From top band, where K1PBW and PA0HIP battled it out, to high band, where LU1DZ and C5AT ran high rates, the name of the game was *action*.

A new world record of 4.69M was turned in by Richard Norton, N6AA operating from 9Y4VT. Richard who finished third last year decided to go for the whole ball game this year. His 1400 Q on 14 MHz. is what did it for him and he walked away with the world title. One would think that beating the world record would produce a first place, but Pete, N6CJ operating from KP4RF had to settle for second (A fine job from a 2 point area).

The Sochi Radio Club decided that 3 points per QSO would be better than 2, so they took a trip down the Black Sea coast to UF6. It was well worth it, because their crew set a new world multi-single record with an incredible 4058 Q totaling out at 6M points. Two expeditions from England finished second and third. GU4DAA, the Channel Contest Group gave grateful participants a nice multiplier, while VP2M with G3VZT and G3XVY at the keys had fun "finally being in demand."

The battle of the big multi-multi stations was won by KP4EAJ (7.1M) with an expedition by the Yankee Clipper

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WA4IAR/QRPp

Contest Club and friends. They edged out the boys from Ural, UK9AAN. The crew from Pancevo, YU1BCD, edged out the U.S. entrants of W2PV, W3AU and K2GM.

The top USA all band score was Frank, W3LPL. Frank has quite a station, and winning the USA title for the third year in a row shows that it sure works when he pushes the paddle. W3LPL, N2LT and W1ZA all broke the USA record.

OH1TV went on an expedition to CT3 and came away with a new 3.5 world record. Pekka won the new 3.5 MHz. world trophy. In addition to the stations mentioned above, the following stations set new records: PA0HIP: Europe 1.8; DK3GI: Europe 3.5; UA6LD: Europe 7; OH8OS: Europe 14; KH6CHC: Oceania 1.8; YV10B: South America 1.8; N4JI/HC1: South America 3.5; K10X: USA 14.

The Kentucky antenna farm of N4AR edged out the Texas ranch of K5JA for the USA Multi-Single victory. N4AR's victory was the result of more multipliers on 40 and 80. With conditions on the rapid upswing, the 1978 Contest is really going to be a scramble for top honors.

Not to be outdone, the Frankford Radio Club repaired their antennas, turned their rigs, and walked off with the fierce Club competition title with a total of 62.7M points. That's a lot of work and cooperation. They were followed by their friends to the south, the Potomac Valley Radio Club with 56.6M. Another Group the Yankee Clipper Contest Club from New England (new this year) is breathing down everyone's neck with 52.7M points. The foreign competition is getting hotter and hotter.



SK2KW: L to R SM0DGU, SM0GMG, SM2DMU, SM2HTF, SM2EKM, SM2CEW, SM2EPR, DOG = "Yagi".

## BAND-BY-BAND BREAKDOWN - TOP ALL BAND SCORES

Number groups indicate: QSO's/Zones/Countries on each band

### WORLD TOP SINGLE OPERATOR-ALL BAND

Station	160	80	40	20	15	10
9Y4VT	73/7/9	336/19/44	553/21/55	1407/29/70	1045/25/60	578/21/37
KP4RF	49/8/16	295/19/50	639/22/62	968/27/62	1133/25/67	423/21/46
PJ9CG	34/6/8	360/15/41	550/18/43	605/24/57	867/24/58	839/21/33
ZL3GQ	16/8/5	120/20/30	389/23/44	485/27/65	860/28/69	457/22/43
PJ2VD	17/4/7	189/11/28	537/17/43	968/22/48	801/21/53	543/16/17
9Y4VU	197/10/19	378/13/38	654/24/48	835/24/57	607/18/30	
ZS6WW	55/10/15	312/17/37	605/28/59	777/20/47	627/16/51	
W3LPL	12/7/9	96/16/44	335/28/68	436/32/89	381/27/81	57/18/32
KH6IJ	25/6/5	276/14/13	380/18/18	590/30/49	840/17/25	287/17/21
YU3EY	47/3/12	248/14/48	289/20/58	621/30/75	414/27/62	87/18/38

### WORLD TOP MULTI-OPERATOR-SINGLE TRANSMITTER

4L6M	465/18/58	694/20/67	1512/31/85	1070/35/110	317/24/70
GU4DAA	113/6/22	532/15/54	422/19/65	1396/29/44	673/24/64
VP2M	378/14/46	749/20/54	1167/26/64	1004/23/57	294/14/19
EP2SV	13/5/9	352/19/49	598/14/53	682/28/64	537/20/56
YU3DBC	329/14/49	437/18/63	963/32/74	448/30/80	55/24/48
OK5CRC	17/3/17	515/16/55	340/19/70	947/24/71	484/28/83
					38/20/37

### WORLD TOP MULTI-OPERATOR-MULTI TRANSMITTER

KP4EAJ	128/7/14	663/20/52	1621/26/66	2028/32/78	1654/24/64	923/20/38
UK9AAN	678/23/69	865/30/79	1462/37/114	1068/30/86	494/21/59	
YU1BCD	125/5/19	658/18/60	1038/24/77	1536/36/98	646/27/77	140/25/57
W2PV	72/13/27	340/21/66	533/28/77	1286/35/95	548/27/74	104/21/41
W3AU	64/12/26	228/23/64	533/30/79	1069/33/96	691/29/80	116/21/45
K2GM	57/8/18	177/19/52	543/32/75	241/24/60	643/30/81	

This year's winner is the Phein-Rubr DX Association (13.8M) followed closely by the Toronto DX Club and a fine effort by the Voroshilovgrad Radio Club.

### Expeditions make it fun

Several expeditions were timed for the Contest. In addition to those mentioned above, CE0ZM sure made everyone happy with a fine effort by K1MM and N4WW. Fine operating made them easy to work despite large pile-ups. Across South America PY7BXC/0 was putting another rare one on the map. In Africa, K4YT made lots of people happy by going all bands from EA8ID.

### New category

The Committee has decided to institute a QRP category in which WPX rules apply. Output will be limited to 5W c.w. and 10W s.s.b. The top QRP entry on phone and c.w. will win a



Crew of GU4DAA; L to R G3FXB, G3MXJ, G4BUE, G4EHF.

### USA TOP SINGLE OPERATOR-ALL BAND

Station	160	80	40	20	15	10
W3LPL	12/7/9	96/16/44	335/28/68	436/32/89	381/27/81	57/18/32
N2LT	6/6/12	147/14/45	326/23/59	633/29/75	308/26/65	31/15/20
W1ZA	4/3/3	180/17/52	137/21/54	754/31/84	303/24/62	31/13/21
N3RS	17/7/11	184/20/57	240/24/57	430/30/75	268/24/63	55/17/30
N6RO	11/5/4	124/15/22	536/28/51	380/29/61	351/23/46	96/17/23
K1NA	15/8/12	152/16/49	219/22/62	481/28/80	293/25/65	31/14/23
K9DX	7/5/5	84/20/38	165/26/55	614/26/71	363/21/60	43/14/24
N7XX	9/6/6	110/16/20	429/21/34	447/24/55	490/21/34	203/17/19
W7KW	11/7/6	101/19/27	418/27/46	328/31/69	335/26/50	126/18/26
W4DR	18/7/15	84/17/44	205/26/69	454/30/69	308/25/67	40/17/29

### USA TOP MULTI-OPERATOR-SINGLE TRANSMITTER

N4AR	18/11/16	83/22/52	409/29/75	677/32/83	355/29/76	31/16/30
K5JA	14/7/9	94/21/38	568/26/64	674/32/82	287/26/60	90/19/36
K2BU	190/18/57	434/26/66	643/30/81	294/24/58	20/12/14	
K1PR	13/7/8	165/19/50	241/24/60	665/27/74	363/25/68	27/16/26
W6XR	15/8/8	90/13/20	665/27/56	578/29/72	366/20/36	56/14/19
K1XX	16/8/10	134/16/46	116/21/52	782/27/77	252/21/71	25/13/19

### USA TOP MULTI-OPERATOR-MULTI-TRANSMITTER

W2PV	72/13/27	340/21/66	533/28/77	1286/35/95	548/27/74	104/21/41
W3AU	64/12/26	228/23/64	533/30/79	1069/33/96	691/29/80	116/21/45
K2GM	57/8/18	177/19/52	543/32/75	1238/35/104	531/29/87	159/23/48
K3WW	54/10/23	269/25/69	544/31/81	970/36/103	613/29/84	92/20/41
K5RC	48/10/17	252/21/49	769/31/79	851/35/97	657/28/76	185/23/43
W3MM	32/8/19	265/18/59	336/29/74	1097/33/88	423/27/81	139/20/38

trophy. So remember that a weak station calling you may not be the Pacific long path but a QRPer in the next country.

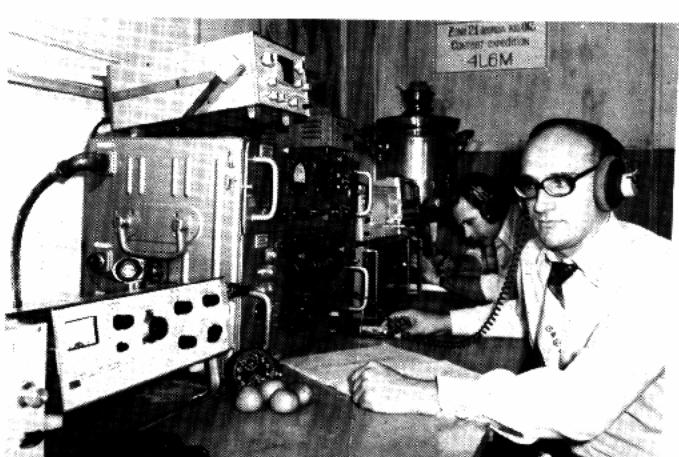
### Conditions and the Committee

The total logs received for the 1977 CQ SSB and CW tests were 4,500 an 11% increase over the 1976 Contest. With everyone everywhere aware of the improving conditions, the 1978 test entries should burden the mailman. We are ready.

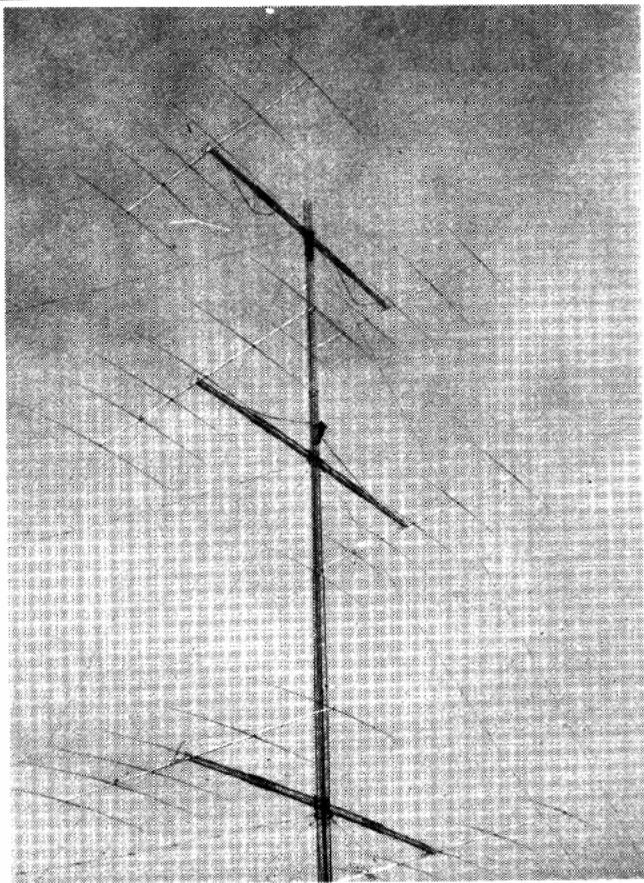
The following people provided the expertise necessary to check each entrant and summarize the logs for which they were responsible. Chairman; Frank Anzalone, W1WY; Glen Rattmann, K6NA; Gene Walsh, N2AA; John Kanode, N4MM; Terry Baxter, N6CW; Lenny Chertole, W3GRF; Gene Zimmerman W3ZZ; Jim Nieger, N6TJ; Dave Donnelly, K2SS; Low Jenkins, N6VV; Fred Morris, W6PVB; Tom Taormina, K5RC; Reg Toume, N6SV.

Coming up next month the 1978 CQ WW Phone Contest. Congratulations to all of the winners.

73, Bob, K3EST and Larry, N6AR.



4L6M:UA6APW and Oleg.



OH8OS; 200 ft. rotatable tower, 36 el. on 14 MHz; OH8OS and OH2BH on tower!



VO2EPA put zone 2 on the map. From Goose Bay, L to R VE1AI, VO2AM, VE1MX.

### U.S. QRM

"Rotator on 20/15 beams broke Sunday morning. QSO and multiplier total suffered . . . K1NA. Lost rotator all day Sunday.— Still great fun . . . N1GL. The temptation of a party Saturday night was overwhelming . . . K1DG. Didn't use as many KW hrs as last year . . . W1CNU. With my antennas—next town is good DX . . . W1PWK. Enjoyed it very much . . . W1LK. Fine operators, lots of fun . . . W1BB/1. Was out in the rain soldering radials on the verticle Friday night . . . K2BML. All my antennas came down in big wind Saturday night. That was that . . . W2GGE. 10m was a big disappointment . . . K2FL. Where is cycle 21? . . . W2AX. Sure was hard to find a clear frequency . . . N2TW. Antenna shorted; fell asleep during best opening; started going deaf . . . N2RN. My age overwhelmed my experience . . . N3RS. First CW contest—will be back again . . . K3NZ. Wouldn't you know, I had to move to North Carolina this weekend . . . N3RB. 80 sure gets slow when Europe drops out . . . WB3AUN. After 3 years, worked a JA on 28 for 5 band WAC . . . W4YN. I found it advantageous to tailgate K3KA, and W3KA. . . . K4KA. There is nothing funny about a 48 Hr DX contest from 5 land . . . K5KU. Climbed tower at midnight to unstick rotator . . . N5TP. First CW contest in 52 years . . . W5DUI. Had to climb the tower twice in the dark . . . K1PR. Had to work 36 hours on Friday and Saturday . . . W4MYA. JA8IEV/JD1 was country #91 for me on 160 . . . K6SE. Operated in the mountains with a motor generator that got 61 QSO's per gallon . . . N6GG. Next year, a memory keyer . . . N6OZ.

### DX QRM

"For the first time, French amateurs have been able to make use of the 160m band. I recall then, thanks to the efforts of Gene, W4BRB, W4OO, and of Jean, F8EX, the first permission obtained by French amateurs for 160m band was on the occasion of the CQ 160m Contest in January 1977. My best QSO's during the November 1977 WW CQ Contest—eight US amateurs, one VE, and one YV on 160m band. Could have slept for a week after the Contest, very enjoyable . . . GM3ZSP. As you can see, I am with you every year. Including this Contest, came up to near 37,000 QSO's! So see you next year . . . HB9KC. Still the best of the lot . . . G3KDB. Not enough countries are active during the CW part . . . F3AT. Nice to see the newly erected double fed delta loop work so well, esp. on 80m where the size is small . . . TF3KB. Always a very nice contest. Hope next year again, age 78 years Hi. I hope . . . PAQVB. Here's the new European record. Will be difficult to beat Ernie, K1PBW for top world though. Think that will be a very close finish! Most annoying parts of contest: line voltage dropped below 160V at times (noticeable in log). Heard loads and loads of JA's. Could only work one. Most thrilling event: Working 5 (five) "sixes" it made me wake up again, Hi . . . PAQHIP/A. Heavy QRN (due to snow fall) made it impossible to copy stations during best DX hours on Sunday. Even beverages had S9 noise levels . . . DJ8WLA. Imagine the thrill of working XE1AN, good for 2 multipliers, as my last QSO in the Contest . . . TF3CW. I believe this Contest is the biggest pusher to improve antennas and equipment. You should have seen me on the roof the days before the Contest! . . . EA5CQ. Still the most enjoyable test. Gap in log first day 065.2-0803 while I tracked down an intermittent fault on the bias line! . . . G3HCT. (14mc) A struggle to get multipliers in Europe amongst S9 + W signals! . . . GM4CXW. Windiest weekend of the year and antenna 'Birling around like a yoyo.' . . . GM3XNJ. I got my first KL7 on 40 meters! . . . DM3BF. With a wire antenna and TVI keeping me off in the evenings, that's nearly my limit I'm afraid. pity, because I enjoyed the Contest very much . . . GW3INW. Though we would have a go on 28 MHz as a change from 21 MHz. Heard a few W's but could only raise one, band did not open . . . G4CNY. Better conditions than last year. But still not good, though 10 did open up from time to time. See you again next year, I hope. 73 . . . G3DYY. Much more pleasant looking out the window at the English countryside, than the cement shack walls back home . . . G5CFV (K9RA, ex WA9LZA opr. I am blind and my dog is dead . . . K2SS. 'Thrilled to bag GU4DAA for a new country . . . CE0AE. USA operator courtesy better than usual . . . HI8LC. Spent fone contest in hospital after fall from tower. Want to thank boys from the Fairbanks NASA station for their help with the antennas . . . KL7RA. Prepared to work 160, but too much QRN so decided on 10 meters instead . . . LU1DZ. My last contest from KP4. See you next year from W6DCC . . .

**U.S.A. Club Scores**

Frankford Radio Club	62,769,387
Potomac Valley Radio Club	56,645,474
Yankee Clipper Contest Club	52,724,912
Northern California DX & Contest Cooperative	27,149,189
Southern California DX Club	23,168,114
Murphy's Marauders	19,435,764
Western Washington DX Club	15,935,129
North Florida DX Association	12,417,614
Southeastern DX Club	10,303,142
Texas DX Society	8,924,524
San Diego DX Club	6,830,268
Indy DX'ers	5,728,991
North Texas Contest Club	5,152,422
Central Virginia Contest Club	5,058,062
Northern Illinois DX Association	4,319,918
Richardson Wireless Klub	4,145,868
Willamette Valley DX Club	3,757,453
Michigan DX Association	3,330,809
Mad River Radio Club	3,242,542
Wireless Institute of the Northeast	3,161,595
Northern California Contest Club	2,214,102
Order of Boiled Owls	2,081,599
Alamo DX Amigos	2,078,193
Virginia Century Club	2,021,208
Delta DX Association	1,680,974
Northern California DX Club	1,601,122
South Florida DX Association	1,469,194
Eastern Iowa DX Association	1,297,173
Central Arizona DX Association	1,252,921
Twin Cities DX Association	1,187,314
Kansas City DX Club	834,030
Mississippi Valley DX & Contest Club	616,367

Greater Milwaukee DX Association	427,076
Charlotte Amateur Radio Club	390,142
Gloucester County Amateur Radio Club	388,646
South Jersey Radio Association	370,795
Dade Radio Club	279,027
Joliet Amateur Radio Society	272,241
Bluegrass Amateur Radio Club	271,019
Waukegan VHF Society	222,705
Northern Ohio Amateur Radio Association	154,213
Dayton Amateur Radio Association	68,438

**DX Club Scores**

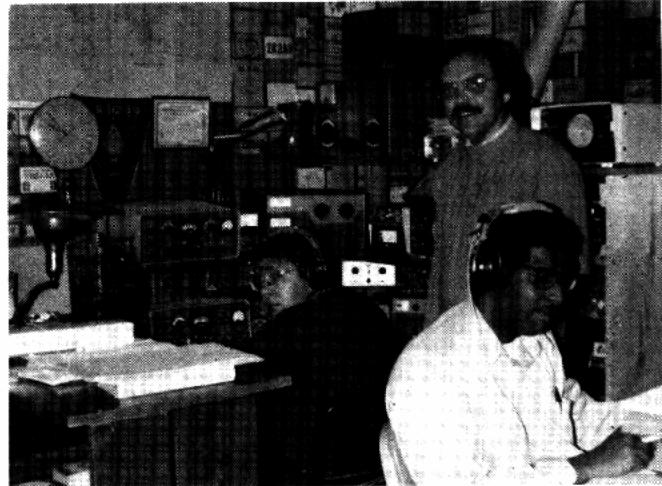
Rhein-Ruhr DX Association	13,819,801
Toronto DX Club	10,096,178
Voroshilovgrad Radio Club	10,070,861
South German DX Group	8,060,501
Kaunas Polytechnic Institute Radio Club	7,242,272
Chelyabinsk Region Radio Club	6,779,624
Saar/Pfalz DX Club	4,501,593
Channel Contest Group	4,183,802
Tetrahedral Contest Circle	3,647,862
Fraser Valley DX Club	2,003,431
Halifax Amateur Radio Club	1,727,552
Tallinn Radio Club	1,399,651
Honolulu DX Club	1,396,383
Minsk Radio Club	1,385,439
UBR (Brasil)	1,299,857
Winnipeg DX Club	1,267,189
Danish DX Group	1,074,636
DX Club of Puerto Rico	815,526
Radio Club Venezolano	512,264
CW YV Club	283,475
Swiss DX Club	101,156

**KP4DKX.** Big thrill to work CE0ZM for country number 170 with 5 watts . . . OA8V. Started at 10 w.p.m. and finished at 30 w.p.m. with a standard brass key. Will have a bug for the next contest . . . VE8CC. JA2UEO - I have moved to Yokohama this April, so went back to home country for the contest by bullet train. An always pleasant contest. Biggest thrill - was called by KP4BC via long path (7 MHz.) His signal was 10 dB over S-9 on my S meter . . . JA5BJC. I had to waste 1 hour because I got the traffic accident 1 hour before the test - missed many mults. . . . JE1CKA (JAOCUV Opr.). One of the most interesting competitions of the year - worked 12 new countries for 5B-DXCC. . . . OK1DVE. Operated by OH2BH - 36 el. beam, artic circle . . . propagation and good conditions resulted in my best score ever from Finland . . . OH8OS. It was fine Biz. test - worked 3 new countries. Very good opening on Sunday evening to Japan on 1.8 MHz . . . OH2BO. 65 years young, so don't try that all band rat race anymore. Fun with a different band each year . . . SV0WTT. Was 1st in 1968 from Italy, hope I can repeat it ten years later on 28 MHz . . . IK2FGP. Conditions were much better a week before the contest . . . SP9ADU. Poor conditions on 40 meters this year, had great fun as always in this

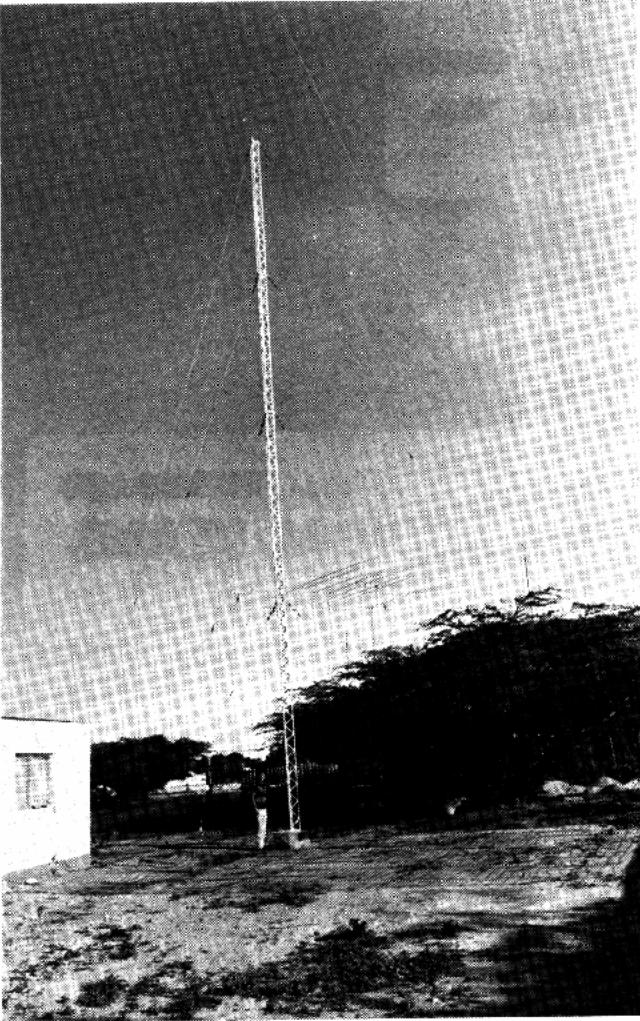
contest . . . YO3BEJ. Fine conditions but much local QRM . . . YU2OB. Had fun in contest even with poor conditions . . . YO6AW. Nice to work so many stateside stations with new vertical antennas. Did miss 16 hours due to snow storm . . . OH1IJ. Rotator burned out before contest and repaired just in time to start test, then high winds damaged my quad so was limited to 21 MHz . . . OK3EA. How about CW in the WPX contest? . . . CY3HFS. Rainstorms washed out roads and cut off power . . . W4ORT (Op. of HH2DX). A lightning strike didn't help the 140 per hour rate . . . G3XYY (op. of VP2M). Suitcase DX-pedition stations just 'aint' the most secure in a Caribbean thunderstorm . . . W4UY/PJ8JM. Had to pass up some 1 point JA's for some slower 3 pointers . . . K6KM/EP2SV. We celebrated 50 years of our club by putting a team into the CQ WW CW, but some hard going when no one is beaming this way . . . ZL2AKW (op. at ZL2WB). Linear blew in the last hour of the contest . . . N4VV/CE3 (That's a switch-ed.). Lots of troubles including interference, but hope to progress in the future. Nice Contest . . . UK9AAN (UA9AN). Contest was very good, we were happy to visit Georgia for DX-pedition over 10 years after 4L3A operation in 1967 . . . 4L6M (UA6APW)



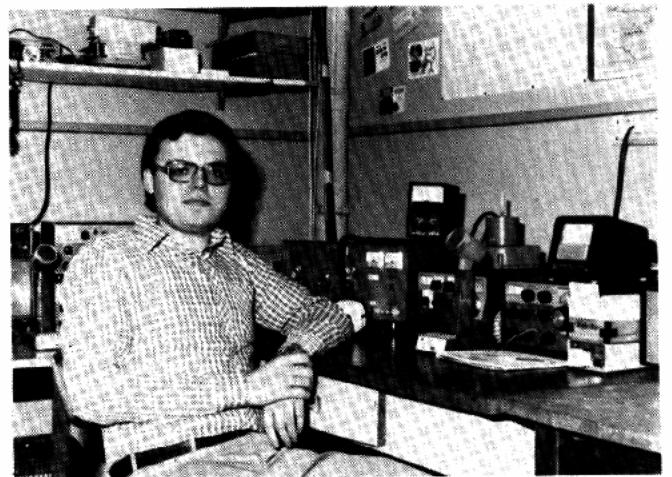
**OK5CRC:** OK2RZ, OK2SSS (standing) OK2RN, OK2HZ. We wonder which bottle has the most output.



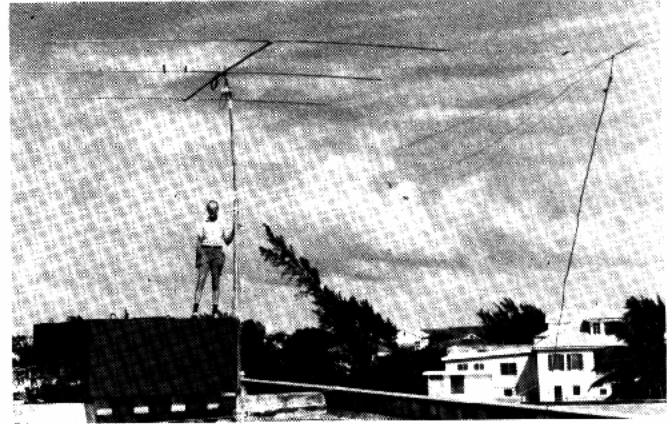
**N4AR, N4KG (standing), W8KIC.**



*YV1OB: 66' with 400m<sup>2</sup> ground on 160.*



DK5WL



VP1AH (WA4DRU Opr.)

## **STATION OPERATORS**

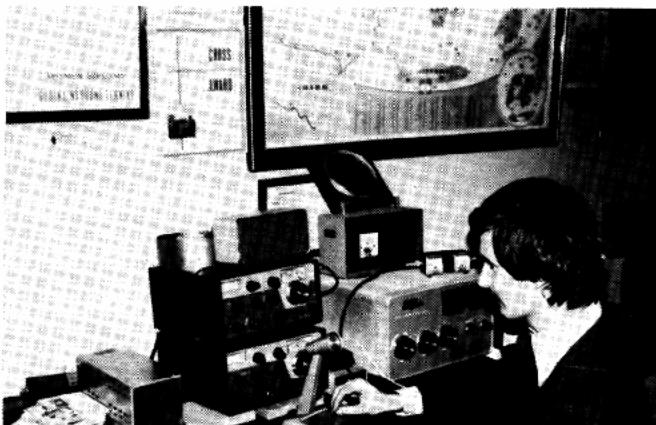
## **Multi-Operator Single Transmitter**

**DA2AY & DA2LJ**, DA1MM, DA1HL, DA1LD, DA1PQ, DL1ZX, DF7FH, DK5FJ, DC0HO.  
**DK0BN**: DL5WT, DK9PY, DK9PD. **DK9TU**: DK5GB, DK5HH, DK6QI, DJN9X, **DL8CM** & DL8AN, DL8CH, DL8FR, DL8HA. **DL9AA**: DJ4XG, DJ5PA, DK2ZO, DL3BK, DL6BK, DL8NU. **DL90KF**: DJ7SW, DJ8FR, DJ4FZ, DJ2BV, DJ5AV, DJ5UZ, DL2ZZ, DL7YO, DK8LD, DK8LE, DK9XT, DK6GL, DC50H, DF3LP. **DL9WU**: DJ4AX, DJ8SW, DK4TP, DK5EZ, DK4EM, DL9DY, DA1UM. **DM3CK**: Pusher, Roleder, Lüdecke. **DM3SO**: DM3XS0, DM3YS0. **DM4CM** & **DM4WCM**, DM4EB & DM2CCB. **DM4FM**: DM4ZF, DM2FDM, DM2FBM. **DM4ZA** & **DM4YZA**, DM4ZX **DM5IG** & **DM5YIG**, DM5XIG. **DM7BE**: **DM2DBE**, DM2AGL, DM3NBE. **E1AA**: E12BB, E12CN, E13CP, E16CW, E17H. **EP2SV** & **G3SXW**, K5MM, **F6CZU** & **F6COU**, F6DZS, F6DBX, F6CIL, **G3GJL** & **G3RLR**, G3TQD, G3TQZ, G3UVM, G4AAL, G4DXD. **G4FDC/A**: G3HZL, G3K7Z, G3L1K. **GU4DAA**: G3FXB, G3MXJ, G4BUE, G4EHF. **HA1KTD**: Pozsgai, Markus. **HA1KZU**: HA1XY, HA1ZU, HA1XV, HA1XR, Borsai. **HA2KMB**: Bolla, Magyar, Gesztesi. **HA4KYH**: HA4YO, HA4YQ, Csanálási, Baromczky. **HA5KDQ**: HASJL, HA5MK, HA5FM, HA5HD, HA5HP, HA7RY. **HA5KFZ/2**: HA5GN, HA5KF, Puskas, motnar. **HA5JC/C**: HA5GP, HA5LN, Kovacs, Motnar, Holman. **HA5KKC/2**: HA5MA, HA5MD, HA5MO, HA5LY. **HA5KKK**: Zoltan, Pali, Antal. **HA6KNV**: Uram, Lukos. **HA6KV8**: Kulcsar, Simon, Suszter, Pap, Toth. **HA7KLB**: Balogh, Czonka. **HA7KPK**: Schulez, Algan. **HA7KSV**: HA7SF, HA7SH, HA7UF, HA7UK, Adamecz. **HA8KAX**: Deveny, Toth. **HA9KOB**: Pokber, Orban, Nagy, Laki. **HA9KPU**: Jenei, Lakatos, Laub, Szabo, Mihaly. **HA9KH**: HA9HF, HA9IG, **HA9KKL**: HA0503, Racz. **HA9KLU**: HA0MM, HA0MU, Szabolcay. **HB9AYZ** & Schuetz. **HB9LP** & Fisher, Kumli. **HG8U**: HA8UD, HABVL, HA8UB, HA8UI, Szentesi. **HH2DX**: W4ORT, WA8RWU, N2BA. **J A2YKA**: JH2EUV, JH2QXG, JA4UDP, JA3YEE: JA6HFV, JE3PZC, **J A5YAS**: Akimoto, Shigeuyki. **J A7YFB**: JA7IBJ, JA7LPX, JA7UMD, JA7WBW. **J A8YAU**: JA4RAJ, JA8FPX, JA8UXL. **J A9YAN**: Saito, Okubo, Arai, Kawse. **J E1ZWT**: Hideo, Takao, Shoji, Takashi. **J H6YAY**: JA6FB, JA6VQA, JH8KBG. **J R1ZTT**: JA1CAJ, JA1EQU, JA1QXY, JA6KBR, **JF1WED**, **K1PR** & **K1XM**, WA1MAO, WA1QNF, K1XX & W1KM. **K1Z** & YU1PCF, K2BU & WA3LRO, **K3KA** & Repeater. **K3RS** & **K3TA**, N3TR, **K5JA** & **K5MR**, K5RX, K5SR, N5AU, N5TR, WD5GNJ. **K6DC** & **W6BJH**. **K6CYX** & **W6AJAH**. **K6SE** & **WB6CEI**. **K6SMH** & **WR6ACZ**. **K6YK** & **WR6ACZ**. **K7RI** & **K7SV**. **KL7MF** & **KL7IUN**, KL7PJ. **LA1H**: LA4KQ, LA8UL, LA9DI. **LX/LD7ON** & **D7LQU**, DL7SL. **LZ1KDP**: LZ1MS, Boris, Rumen, LZ1GZ, Rumi, Vasco. **LZ1KDW**: Ivanov, Kirilov, Temelbov. **LZ1KZQ**: Dimov, Kolev, Zlatanov. **LZ1KRD**: Nenev, Zografarov, Latinov. **LZ2KEF**: Georgiev, Marinov, Totov. **LZ2KIM**: Enchev, Penchev, Chaklev. **LZ2KKK**: CLUB. **LZ2KSG**: Lazarov, Blazev, Angelov. **LZ2KSU**: Patkov, Ivanov, Dicnev. **KM6BI**: KM6FC, WB8BLN. **N1AC** & **W1IHN**, **N3AW** & **G3HLW**, K2HR. **N3RD** & W3XU. **N4AR** & **K4KSC**, N4KG, WB8KIC. **N4BP** & **N3BL**, NAZU. **N4HU** & Repeater. **N4IB**, **N4KE**, **N4OL** & Repeater. **N4RA** & **K4AW**. **N6GG** & **WR6ACZ**. **N6QZ** & **WR6ACZ**. **N8ET** & **WA8YEE**. **OF3EW** & OH2BSS, OH2BOR, OH2DS, OH2OH, OH3NY.

**OF2AA:** OH2BDP, OH2CG, OH2HI, OH2BNP, OH6UC & OH6RE, **OK1ALW** & OK1DWA, **OK1KOK/P:** OK1MPP, OK1-11661, **OK1KPU:** OK1AXA, OK1JDX, OK1MU<sup>F</sup>, **OK1KQJ:** CLUB, **OK1KRS:** OK2PEG, OK1DKR, **OK1KRY:** CLUB, **OK1KSL:** OK1AQ, OK1AHG, OK1FAF, **OK1KSO:** CLUB, **OK1KUA:** CLUB, **OK1KUR:** OK1AET, OK1DLA, OK1AYE, OK1DDT, **OK1KWV:** CLUB, **OK1KYS:** CLUB, **OK1KZJ:** CLUB, **OK1ONF:** OK1AXY, OK1DWE, OK1FAV, **OK1XP:** CLUB, **OK2KPS:** CLUB, **OK2KWI:** CLUB, **OK2KZR:** CLUB, **OK3KAP:** OK3CGI, OK3TPV, OL8CGI, OK3-27060, **OK3KF0:** CLUB, **OK3KKQ:** CLUB, **OK3KT0:** CLUB, **OK3KTR:** CLUB, **OK3RJB:** OK3TCL, OK3TCN, OK3CKW, OK3TD0, OK3-26312, OK3-26832, OK3-26693, OK3-26694, OL8CGB, OL8CGX, **OK3RA:** OK3ATM, OK3DTD, OK3TDJ, OK3-26015, OK3-26513, OK3-26515, **OK3VSZ:** CLUB, **OK5CRC:** OK2HZ, OK2RN, OK2RZ, OK2SS, OK2YAX, OK2BYW, **OK5TLG/P:** OK1MMW, OK1FCW, OK1AMY, OL1AVB, OK2PFW, **ON6VN** & **ON6WL**, ON5JN, ON5OV, ON4NM. **0Y6FRA:** OY2H, OY2J, OY5NS, OY7K, **OZ3LF** & **OZ8AE**, **OZ7BW** & **O21H**, **OZ1C:** **PA3AAT** & **PA3AAM**, **PA3ACE** & **PA3AAZ**, **P11PT:** Koken, Van Kessel, **PJ8JM:** W4UY, WSAT, **SK1AQ:** CLUB, **SK2KW:** SM2ALH, SM2CEW, SM2DMU, SM2EK, SM2EPR, SM2HTF, SM2HAK, SM2HQZ, SM0DGU, SM0GMG, **SK3HK:** SM3AFR, SM3CER, SM3DXC, **SK5DB:** SM5BKK, SM5CUI, SM5DCQ, SM5DGA, SM5DSE, SM5GTE, SM5GYE, SM5HRP, SM5FCJ, SM7MS, SM7FZA, SM1KQ, SM0DJZ, **SK5EU:** SM5FUG, SM5HEV, SM5KEO, **SK6CM:** SM6CJK, SM6AWZ, SM6EPA, SM6ED1, SM6C02, SM6ESW, **SK7CE:** SM7RN, SM7BKG, SM7EBC, SM7ECM, SM7EQL, SM7FE, **SK7GK:** SM7GNT, SM7IDF, **SP2KAAE:** SP2FAX, SP2FLE, **SP2KDT:** SP2FAP, SP2ADW, SP8ZAP/2 **SP3PGX:** CLUB, **SP9KAD:** SP9BOR, SP9DTI, SP9DWT, SP8HRA/9, SP8JTA, **SP9KRT:** SP9ZW, SP9FKQ, SP9PBN, SP9AMH, SP9HZV, SP9DLF, SP9JCW, **UK1ZAA:** UA1ZX, UA1ZBQ, UA1-145-113, UW1YY, **UK2AAA:** Khezev, Gorski, Chernov, **UK2AAG:** UC2AAK, UC2LAR, UC-009-105, **UK2AAP:** Bllichenko, Shudakov, Trocevsky, **UK2AAR:** CLUB, **UK2ABC:** UA2FCZ, UC-009-479, UC-009-401, **UK2BAG:** UP2BZ, UP2BCE, UP2DT, UP2BAD, UP2BAA, **UK2BAS:** UP2PAJ, UP-038-609, **UK2BBB:** UP2BAS, UP2MB, UP-038-517, UP-038-727, **UK2BBF:** UP2BDV, UP2BDX, UP2BFL, **2eSUK2BC:** UP2PBM, UP-038-369, UP2BEN, **UK2FAS:** Kuznetsov, Kozlov, **UK2IAJ:** Klenko, Bekish, Sinkewich, **UK2GB:** UQ0-037-91, UQ-037-145, UQ-037-135, **UK2PAO:** UP2BEJ, UP2BFU, UP2PAQ, UP-038-440, UP-038-574, **UK2PCR:** UP2BCR, UP2BCT, UP2BCU, UP2BDF, UP2BEE, UP2-038-728, UP2-038-1541, **UK2RAX:** UR2EE, Fu, Neil, Toomas, **UK2RIL:** UR2ED, UR-083-75, UR-083-378, **UK2TAD:** CLUB, **UK3AAC:** UA3AGX, UA3-142-1232, UA3-170-1163, **UK3AAH:** Kustovsky, Kazasnovskiy, Kuleshov, Zhukov, Solmcev, Afrefjeva, **UK3ABB:** UA3XAC, UA3ABZ, UA3AEM, UW3FI, UW3CC, UA3-170-888, UA3-170-834, **UK3DAU:** UA3DKF, UA3DKU, UA3-142-1153, **UK3SAB:** Shebolkin, Efremenko, Pozdnikov, Terchow, Shevtsov, Sonushin, **UK3TAF:** Alexeev, Kuzmin, Maslenn, Kov, **UK3TAG:** Chivov, Gorjachev, Tezhehim, Timofrechv, **UK3UAA:** UA3UAR, UA3UBN, UA3VB, UW3UO, **UK3WAA:** UA3WZ, UA3WU, UA3XJ, UA3WBC, UA3WBZ, UV3WT, UA4CCG, UL-026-199, **UK3XAM:** UA3-127-364, UA3-127-363, **UK4HB:** UA4HWB, UA4HWC, UA4H3AU, UA4HAL, UA4HGG, UA4HBR, UA4HFH, UA4HBX, UA4HFP, **UK4LAA:** UA4LM, UA4LN, UA4LAJ, UA4LAR, **UK4PAE:** UA4PAU, UA4PWT.



**JA5BJC** uses a 2 el. Delta loop on 40 meters.



**YU2CDS (YU2CT Opr.)**



**OH6JW**



**I2FGP**

**UK4WAB:** Baranov, Kanusov, Krylov, Sakerin, Sisin, Scobkarev. **UK4WAR:** Fomin, A., Fomin, T., Kuznetsov, Markovi, Onotnicov, Yamilov, Zapsolskin, Volkov, Shevtsov. **UK4YYY:** Leontyev, Danilov, Filippov. **UK5EAG:** Owod, Dron, Pasuk. **UK5IAK:** UBS-060-805, UBS-060-238, UBS-60-203. **UK5HAB:** UBS-071-73, UBS-071-330. **UK5IAN:** UY5EC, UBS1EP, UT5SI, UBS-073-1732. **UK5IAZ:** UT5AA, UBS-073-202, UBS-073-218, UBS-073-313, UBS-073-342, UBS-073-474, UBS-073-209, UBS-073-1249. **UK5IBB:** UBS1HO, UBS-073-394, UBS-073-734, UBS-073-2077. **UK5JAO:** Yavorsky, Shalya. **UK5LAA:** Grene, Vlasov, Dolotovski. **UK5LCV:** UBSLCV, UBSLCX, U Grene, Vlasov, Dolotovski. **UK5MAF:** UBSLCV, UBSLCX, UY5OQ. **UK5MAB:** UBS5MD, UBS5MDA, UBS5MQ. **UK5MAF:** UY5LK, UBS5MDC, UBS5MAK, UBS-059-22. **UK5MAG:** UBS5MDP, UBS5MPB, UBS5MDL, UTSHP. **UK5MBF:** UBS5MDG, UBS5MCH, UBS5MHM, UBS5MBV. **UB5MFR:** UBS5MIA. **UK5MBW:** UBS5MFT, UBS5MGH, UBS-059-12. **UB5MCP:** UBS5MIU, UBS-059-704. **UK5QBE:** CLUB. **UK5WAA:** UBS-065-271, UBS-068-389. **UK5VAA:** Dobrovolski, Lisovski. **UK5WAA:** UBSWCJ, UBS-068-420, UBS-068-389. **UK5WAG:** UY5XB, UBS-068-309, UBS-068-339. **UK5WAZ:** UBSWCT, UBS-068-395, UBS-068-392. **UK5XA8:** UBS-062-240, UBS-062-239, UT5QG, Vodolitski. **UK5ZAK:** UBS5ZK, UBS-069-337, UBS-069-396. **UK6AJA:** UA6AKK, UA6AJO, UA6AJG, UA6ALC, UA6AKT, UA6-101-1446, UA6-101-472. **UK6DAU:** Gorogots. **UK6LEZ:** UA6-1781, UA6-150-7371, UA6LBX, Rybak. **UK6QAA:** Wezholsky. **UK6YAB:** Deynecin, Kuznetsov, Velitchko, Grehnikov, Caplya. **UK7CAC:** UL7-028-1, UL7CAZ, Ex. UA9AFU. **UK7NAA:** UL7-031-003, UL7NAT, UL7NAU. **UK8AAI:** U8ACI, U8BI. **UK8BAA:** Solodivnikov, Chichelenko, Novkov. **UK8ADY:** UA9AFZ, UA9ADH, UA9ADI, UA9AAC, UA9AT, UA9AAF. **UK9CBD:** UA9CBK, UW9DW, UA9CT, UA9CAM, UA9DU, UA9CDJ, UA9-154-1162, UV9DO, UA9-154-1333. **UK9HAC:** UA9-158-307, UA9HBQ, UA9HBH, UA9-158-377. **UK9QAD:** UA9OFU, UA9OEH, UA9OFB. **UK9QAG:** Vidish, Selivanov, Lukhinhyh. **UK9XAA:** Beznosikov, Shvec, Chegesov, Ikhonikov, Nikitin, Shishelov. **UK9XAC:** UA9XN, UA9XV. **UK9AAC:** UA9ACQ, UA9BW, UA9ABA, UA9AAK, UA9AAF. **UK9AAS:** Popov, Nepovinnyh, Dovgopyl. **UK9BAA:** Sataev, Holodov, Pakulsky. **UK9FAA:** UA9-153-1, UA9-153-79. **UA9FAM:** UW9FM, UA9FBX, UW9FX. **UK9LAB:** UA9LS, UA9LBW, UA9-107-387. **VE1MOT & VE6BFK:** VE6ASI & VE6JA. **VE7AUB & VE7AVU:** VO2EPA: VO2AB, VE1AI, VE1MX. **VP2M:** G3VZT, G3XVY, VP2MF, W2UR & N3KR. **W3EVW & K4PJ:** W3HB & W3NX, WA3WPY. **W3UO:** K3KU, W3KI. **W4MYA & W4LDF:** W4NVU: K4KQ, W4OBA, WA4LJZ, WD4KFZ, W5Y2 & W5SVN. **W6BH & N6CR:** WA6IQM. **W6BIP & WA6DJI:** W6KG & W6QL. **W6XR & W1ARR:** N6TV, K6UD. **W9LT & K9UWA:** W9FC, WD9DSU. **W9HP & K9WWX:** W9BE, K9KX, W9UO, W9YCR, W9ZZ, W9QYL. **W9SD & K9RA:** K9SD, K9Z, K9KE, K9QP, W9UD, W9SMV, WA9NRE, WB9PJE. **W9YR & N9AR:** W9AR. **WA2HDD & WB2MAE:** WA3NAN. **WA3NAN:** WB3ANV, WB3AON. **WA4LZR:** N4RU, W4ROA, WA9ACF, WB9VLV & WB9ADE. **WD8JZQ & WD8IEX:** WD9BPG & WD9DLV. **Y04Si & Y04HW:** Y04XF, Y04AP, Y04ATW, Y04TWR, Y0B8A. **Y05KAU:** Y0SDH, Y05RE. **Y08KAN/P:** Y08GV, Y08CP, Y08MI. **Y08KGV:** Y08AJG, Y08AMT. **YU1ELM:** YU1DFT, YU1OND, Petkovic, Krkic, Krkic, Stolics. **YU2CDS:** YU2CT, YU2RNC, YU2RTM, YU2RUX, YU2ROX. **YU3BUV:** Majer, Aloje. **YU3DBC:** YU3ZV, YU3TYX, YU3TPZ, YU3EZ. **YU4CBC:**

Karanovic, Zagovic, Kovacic. **ZL2WB:** ZL2AKW, ZL2AYP, ZL2CD, ZL2OM, 4L6M: UAGAPW, UA6APP, UA6DL, UA6AAQ, UW6CA, UW6CG, UA6AYR, UV6AF, UA6APH, UA6APR, UA6APL, Kravchenko.

## STATION OPERATORS

### Multi-Operator Multi-Transmitter

**CE9ZM:** K1MM, N4WW. **JA1YHA:** JH1LGZ, JG1BQP, JR2SMB, JA7UES, JA9GAE, JA9GBO, JA9KSX. **JA1YXP:** CLUB. **JA1ZLO:** JE1JJ, JR1FIG, JH2CKX, JH4EBN, JH6HDL. **JA2YEF:** CLUB. **JA3YBF:** CLUB. **JA3YKC:** CLUB. **JA3YQA:** JA3NHK, JA3STP, JH3QNH. **JA4YQO:** CLUB. **JA6YAP:** JH6GFF, JH6INJ, JH6INQ, JH6KP2, JH6QKX, JH6RIM, JR6DTB, JR6KGU, Uchi, Masa, Nori. **JA6YDH:** JA3VXN, JA6KGB, JH6DRF, JH6EFI, JH6MWG, JR6DUL. **JAT7YAA:** JA7LMK, JA7NRQ, JA7HKB, JA7JQG, JA7LMK, JA7LKH, JA7TNO, JA9DTO, JA8FTW, JH2DVX, JA7KPK, JG1IGW, JA9YBA: JH2FKX, JH2SGU, JR2NKG, JA9DZS, JA9GU, JA9GOE, JA9LWB, JH1YDT: JA1MRM, JH1AGH, JH1BBT, JH1BNC, JH1BTV, JH1GNU, JH1KLA, JR1AOQ, JR1IJV. **JH1ZLA:** JA1CUW, JA1KSO, JE1FFW, JE1GWP, JE1OMO, JH1DCT, JH1HXR, JR1JFO, K7JA, K2GM & N1XX, W1PM, K2BQ, K2GL, K2SS, K2TT, K2UU, N2AA, WB2VYA, WB6KIL, B, WALSH, K3WW & K3DZB, K3UEI, K3WJV, W3HKX, WA3LNW, K4CG: K3WWU, K4YPE, N4MO, WB4BQX, K4LRJ & N4HI. **K5RC & K5GA:** K5GN, K5KG, K5MA, K5TM, K5WA, K5ZD, NSAM, W5VAH, W5VQ, WB5QWX, **K6RR & K6OZL:** N6CW, N6FU, N6IN, N6MU, N6PD, N6RJ, N6XX, N6ZZ, WA6OTU, WA6PNQ, AA6RX. **K8LX & K8GM:** N8EA, W8KPL, W8SYR, W8WA. **K0RF & K0GU:** NORR, W7ZQ, W9UA, W9UN, W9ZV, W0DSU. **KP4EAJ & K1OME:** K1VR, K1ZM, K2DM, K5PM, N4ZC, WB8NTK, WB8TON, N2MM & N2ME, WA2HGM, WB2SS. **N4KE:** N4IB. **N6AW & N6AV:** N6MG & WA6PGB, REPEATER. **OH1AA:** CLUB. **OH2AW:** OH2BAD, OH2BGD, OH2BPW, OH2BQT, OH2BR, OH2CX, OH2EO, OH2KA, OH3MK, OH3YI, OH3XZ, OH5UX. **SK5AY:** CX1AAC, SMSAD, SMSAXP, SM4BNZ, SM5CAK, SM5CBN, SM5CNQ, SM5DPS, SM2DQS, SM7EXE, SM5HPB, SM5GPP. **UK9AAN:** UA9AN, UA9AEN, UA9ACZ, UA9ABA, UA9AID, UV9AX, UW9BY, UA9165-965, UL7LEZ, UA9AHH, UA9AIA, RA9AIL, UA9-165516, W2PV & K1AR, K1IR, K1PT, K2TR, K2XA, N2FB, N6DE, WA2SP. **W3AU & K3EST:** N4IN, K3TW, CX1EK/W4, WA3TAI, K3LR, W3FA & N8II, W3ABC, W3XY, WA3KCY, WA3ZAS. **W3GM & K3GM:** K0VCK, W3GL, WA3JYB, WA3WIM, W83DKM, K2TD, K3YL, N2HI, N2ME, N3AD, N3D, N3A, WB2OYU, WA3VYD. **W3TV:** W3A0H, W3VV. **W3ZZ & W3IU:** W4WS & N4IO, N4OO, N4UN, N4WC, W4QM, W4YA, W4ZCB, WA4YWE, W7NG, W7FU & K7XX, W5XZ, VE7ZZ. **WA3NNA & W3GRS:** YU1BCD: YU1NOW, YU1NZV, YU1OCV, YU1ODO, YU1OQI, YU1QBC, YU1OKF, YU3TC4, YY1RS-625, YU1RS-627, YU1RS-628, YY5A: YV5AAQ, YV5AAS, YV5AAZ, YV5ANT, YV5BNR. **ZF2AW:** KBMFO, N8AA, W8DNC, WB8VW, VE1CD.

## TOP SCORES

<b>WORLD</b>		<b>USA</b>	
<b>Single-Op</b>	<b>Single Op</b>	<b>All Band</b>	<b>All Band</b>
9Y4VT	4,697,304	W3LPL	1,693,956
KP4RF	3,732,350	N2LT	1,594,104
PJ9CG	3,334,884	W1ZA	1,543,850
ZL3GQ	2,648,064	N3RS	1,411,830
PJ2VD	2,591,440	N6RO	1,387,368
9Y4VU	2,221,024	K1NA	1,344,512
ZS6WW	2,131,200	K9DX	1,330,060
W3LPL	1,693,956	N7XX	1,327,872
KH6IJ	1,661,756	W7KW	1,318,592
YU3EY	1,636,605	W4DR	1,310,985
<b>Single-Op</b>	<b>Single-Op</b>		
<b>Single Band</b>	<b>Single Band</b>		
28 MHz	28 MHz		
LU1DZ	231,504	W5MYA	40,133
C5AT	156,060	N6KA	26,235
4Z4KX	92,232	K5UR	25,996
CR9AJ	70,766	W6MUR	22,960
UA9SCH	64,854	K4JD	20,700
EA8URE	47,700	W1BR	19,400
<b>21 MHz</b>	<b>21 MHz</b>		
KX6LA	543,345	N4RJ	221,598
CX8DT	387,844	W4RX	198,024
KH6DD	320,320	W1RM/2	194,129
YU2OB	254,767	K4FJ/3	161,690
OE3AKA	229,381	K9FN	158,256
N4RJ	221,598	WA8PKB	157,728
<b>14 MHz</b>	<b>14 MHz</b>		
ZW4OD	648,825	K1OX	450,596
OH8OS	625,812	N9MM	394,482
K1OX	450,596	K8IA	331,303
CY3EDC	399,663	K4JPD	313,575
N9MM	394,482	W5FO	285,496
OZ1LO	385,330	K3UA	277,300
<b>7 MHz</b>	<b>7 MHz</b>		
KV4FZ	371,628	W5UN	246,584
UA6LO	269,654	K7UR	97,440
W5UN	246,584	K4VX	97,008
I2XXG	212,443	W4FDA	76,911
ZL1AMO	187,026	N0DX	57,570
CY3IXE	180,978	W4VQ	33,341
<b>3.5 MHz</b>	<b>3.5 MHz</b>		
CT3/OH1TV	223,364	WB3AVN	34,580
DK3GI	165,216	K8MD	33,670
DL7AV	130,916	K9OTB	25,950
UA1DZ	129,692	N4QQ	24,752
I3GNQ	105,252	K5NU	22,388
CY3BMV	102,828	K9AJ	18,612
<b>1.8 MHz</b>	<b>1.8 MHz</b>		
K1PBW	19,872	K1PBW	19,872
PA0HIP	17,346	W1BB/1	6,012
YV1OB	14,220	W4HBK	3,465
KH6CHC	8,400	N4EA	3,168
DJ8WLA	7,018	W5USM	2,759
OK1ATP	6,014	K5AAO	1,175
<b>Multi-Op</b>	<b>Multi-Op</b>		
<b>Single Transmitter</b>	<b>Single Transmitter</b>		
4L6M	6,095,824	N4AR	2,131,746
GU4DAA	2,842,776	K5JA	2,087,400
VP2M	2,766,433	K2BU	1,755,914
EP2SV	2,505,068	K1PR	1,714,172
YU3DBC	2,247,696	W6XR	1,630,608
OK5CRC	2,164,941	K1XX	1,447,419
<b>Multi-Op</b>	<b>Multi-Op</b>		
<b>Multi-Transmitter</b>	<b>Multi-Transmitter</b>		
KP4EAJ	7,177,275	W2PV	4,318,650
UK9AAAN	6,540,380	W3AU	4,216,306
YU1BCD	4,707,000	K2GM	4,034,360
W2PV	4,318,650	K3WW	4,016,352
W3AU	4,216,306	K5RC	3,896,904
K2GM	4,034,360	W3MM	3,158,142

Number groups after call letters denotes following: Band, (A-all) Final Score, Number of QST's, Zones and Countries. Certificate winners are listed Bold Face.

## PHONE RESULTS

### SINGLE OPERATOR

#### NORTH AMERICA

UNITED STATES				
W1ZA	A 1,543,856	1397	109	276
	(Op. K1EA)			
K1NA	1,344,512	1191	113	291
N1GL	791,605	826	102	233
W1YG	590,226	754	77	196
K1WB	469,635	696	77	162
K1UW	442,736	588	90	178
W1BIH	438,292	506	95	221
K1SB	416,520	568	78	182
K1YXK	392,380	621	75	155
W1NG	374,596	488	87	197
W1X5	315,616	514	78	146
K1DG	315,016	485	71	162
K1OT	276,621	473	67	144
W1ZT	224,640	365	81	153
W1JJ	212,877	364	69	148
W1GG	192,056	333	76	142
W100	174,796	349	60	118
W1ATAI	97,654	241	50	107
W1VW	85,965	194	59	106
W1SD	75,150	173	70	97
W1WY	69,280	169	55	105
W1CNU	67,815	182	41	96
W1UU	53,504	158	43	85
WA1POJ	51,088	162	42	82
W1GD	41,769	132	35	84
W1R0	39,710	136	37	73
K1MBQ	38,150	133	36	73
K1SA	29,484	112	29	62
W1PWK	27,200	104	33	67
WA1UZH	23,375	100	30	55
W1WK	21,879	90	35	64
W1YNE	19,683	87	27	54
W1XX	15,030	115	13	32
K1GO	9,270	80	11	34
WA2ERT/1				
	8,723	171	26	35
N1AU	7,072	48	20	32
K1IK	3,024	29	19	23
W1PLJ	2,784	31	11	21
W1OPJ	2,310	27	11	24
K1SF	1,568	21	11	17
K1KNQ	936	16	10	24
W1BR	28	19,140	114	21
K1LWI	10,764	84	16	36
W1YN	21	126,351	433	26
W1PH	117,832	393	27	77
K1WVX	68,034	290	20	67
WA1FCN	9,270	80	11	34
K1OX	14	450,596	1217	33
	(Op. K1UA)			
K1DKX	159,782	544	29	72
W1LK	112,423	391	26	71
K1ZSY	73,423	266	27	70
W1HOF	42,851	201	23	50
K1WJL	42,420	181	25	59
W1ZM	7,105	51	16	33
K1CO	7	3,724	41	12
K1PBW	1.8	19,872	145	14
	(Op. K1UA)			
N2LT	A 1,594,104	1451	111	270
W2IB	1,137,312	1121	106	253
K2BML	87,051	901	102	241
N2WT	694,407	833	93	208
W2GD	687,974	790	103	211
W2GW	643,530	794	86	199
N2RM	597,135	695	72	159
WA2ZKY	584,198	714	83	214
W2YV	564,708	697	82	207
W2GGE	432,752	531	94	202
N2MR	350,760	530	80	157
K2UA	344,080	654	54	133
K2FL	335,160	428	91	203
W2AX	319,559	537	62	161
W2FVS	260,370	373	83	180
W2REH	197,303	361	65	126
W2JW	192,660	319	76	152
K2SD	160,680	292	60	135
N2OO	150,012	327	53	109
WA2ZWH	141,792	313	56	112
K2VY	119,377	403	30	73
N2TW	110,630	318	43	87
W2EUQ	108,125	242	49	124
K2PQ	99,302	211	62	111
W2NS	97,097	243	47	96
WB2RTF	88,740	222	49	103
WB2E00	82,492	218	60	104
W2SGK	80,556	211	47	90
WA2VYA	71,722	241	41	68
WA2LJM	64,201	233	33	76
K2MFY	56,048	168	37	87
W2POZ	47,625	142	50	77
K2PH	40,341	136	40	73
K2SB	38,110	136	38	65
K2PF	37,516	130	40	73
W2FTY	36,712	131	35	69
W2HUG	31,734	100	51	72
WB2LJK	30,747	116	42	69
K2MN	25,761	104	30	63
W2KI	16,380	92	20	45
W2OY	14,910	80	19	51
WA2VCZ	9,861	65	24	33
W2IY	5,900	38	26	33
WA2AUB	5,280	43	23	32
K2PE	1,770	21	13	17

W2RS	28	7,500	60	17	33	N4NX	"	94,764	237	51	98
W2HG	"	3,465	46	14	21	K4JM	"	85,470	205	61	92
W2RM/2	21	194,129	632	30	79	K0CMF/4	"	67,200	182	54	95
W2FIT	"	127,504	426	26	78	WA4IAR	"	65,486	196	54	83
K2LE	"	92,268	326	25	74	W4GF	"	58,225	155	46	91
K2UR	"	90,768	336	24	69	N4ZR	"	58,164	170	44	87
W2AZO	"	18,176	104	20	44	W4GTS	"	54,924	152	54	84
K2LWR	14	209,760	624	32	83	K4GFH	"	48,070	160	38	72
	"	180,290	582	31	79	W4JBQ	"	47,424	159	32	64
						K4OD	"	44,958	138	45	82
						N4IA	"	43,384	142	44	72
						WA4LWO	"	40,341	138	43	76
						K4KA	"	31,152	106	44	74
						W4KMS	"	28,814	152	54	84
						N4YJ	"	18,942	103	25	52
						W4KX	"	18,914	77	39	59
						K4UEE	"	18,914	77	39	59
						W4PCK/4	"	16,892	76	30	52
						W4PAK	"	14,508	39	21	25
						WB4WHE	"	4,108	42	24	28
						WD4CTA	"	7,801	21	9	30
						K4JD	28	20,700	118	22	47
						W4QON	"	15,900	104	23	37
						N4PN	"	14,396	104	21	41
						N4MM	"	13,750	101	17	38
						WA4GQJ	"	6,020	54	18	25
						N4EE	"	561	11	7	10
						N4RJ	21	221,598	658	29	88
						W4RX	"	198,024	617	21	44
						WA4OSN					



JA7JNF/1	18,336	134	25	23	JA9HW	19,690	124	20	35	UAQKBI	5,634	118	8	10	OK1AHN	7,714	123	16	42	OZ8ND	20,240	120	27	65		
JA9BKF	16,380	98	23	37	JH3BRC	18,615	143	22	29	UAQJAD	4,608	70	12	20	OK2PEX	6,612	99	15	43	OZ1W	15,675	83	30	48		
J42GBO	15,402	105	24	27	JA2ER	16,470	20	34	UWBAR	4,004	101	9	19	OK1AIA	2,414	39	15	19	OZ5DP	10,488	115	21	48			
JA1AS	14,824	80	33	35	JA1OKI	14,632	83	27	35	UAQCA	1,000	30	5	5	OK1OKR	2,106	37	10	16	OZ1DYU	10,074	70	27	46		
JA2HUN/1	14,049	88	27	36	JR1LEV	12,920	128	16	22	UAQZBP	7	10,044	261	16	11	OK1TW	1,920	44	10	20	OZ1BII	9,570	137	18	48	
JA2HAY	13,728	104	20	28	JA6GEJ	12,600	97	21	24	UWFQB	3.5	4,416	142	11	12	OK1FBH	1,856	24	13	16	OZ7XG	918	22	8	19	
JA3HUL	11,200	80	21	29	JA1BDI	12,096	72	25	39	AZERBAIJAN					OK1DA	189	7	4	5	OZ8KS	408	18	7	10		
JA3DBD	11,029	92	18	23	JA3KAR	9,867	85	18	21	UD6CN	A	126,900	352	33	108	OK1DOC	121	11	4	7	OZ1LD	14	385,330	1445	31	82
JA4AQO	10,224	100	18	18	JK1AXM	8,052	73	19	25	UD6DW	14	4,075	61	9	16	OK2PEX	6,714	99	20	50	OZ7YL	50,388	320	21	47	
JA3PYC/1	9,366	78	22	20	JH6ASZ	6,660	67	17	19	UFBOAA	A	231,150	645	29	105	OK3EA	6,700	53	19	31	OZ8XW	11,100	105	15	35	
JA2QVO	9,270	70	20	25	JA1AVI	6,534	84	12	15	UFBCX	28	12,765	185	2	21	OK1MP	4,680	58	12	28	OZ1BII	4,884	81	9	24	
JA9VFM	8,869	67	24	25	JA2OJ	5,168	47	15	23	UFBCR	14	109,800	419	23	77	OK2CGP	2,304	31	13	19	OZ1AJL	780	30	6	14	
JE3NWQ	8,729	78	22	21	JA1DKQ	4,920	89	9	11	UFBCR	14	40,716	292	12	42	OK2SPS	504	12	7	11	OZ1DOX	3,342	18	5	14	
JH3WKE	6,765	62	17	24	JA1KKA	4,795	49	14	21	UL7CT	A	1,205,380	1380	85	239	OK2BEW	21	56,764	25	66	ENGLAND	306,000	581	72	178	
J46GGD	6,279	56	17	22	JA2MM	4,428	45	17	19	UL7GAA	394,352	747	53	143	OK2AO	44,874	242	22	59	G3ESF	302,584	745	58	168		
JE2SBW	4,824	47	16	20	JA3BIP	4,416	52	14	18	UL7LAW	355,544	581	59	137	OK2BPK	24,45	34	21	44	G2JB	90,407	341	45	114		
JR6CF	3,354	40	19	20	JA5FDG	4,260	51	14	16	UL7PBW	10,396	106	11	21	OK1DD	16,900	163	16	38	G3JKY	67,032	336	32	82		
JA7JT	2,736	28	19	17	JA5AF	3,536	41	13	21	UL7TAAQ	28	33,318	228	18	36	OK1IDS	12,992	92	20	45	G3SGQ	56,320	296	32	78	
JA9BOP	2,622	22	13	10	JH6UJP	2,905	31	16	19	UL7TAAQ	28	26,555	228	13	34	OK2ABU	1,404	33	6	7	G4CNY	28	204,420	208	20	49
JA1BZM	2,160	47	8	8	JA9IAJ/2	2,740	53	9	11	UL7TAAQ	28	77,528	584	20	53	OK2BVA	918	8	10	8	G4HCT	21	168,740	665	32	78
JH4HV	2,002	32	11	11	JA6FYM	2,272	52	9	7	UL7TAAQ	28	17,740	588	22	68	OK1ANS	705	25	7	8	G3MZV	147,056	598	27	77	
JA1DKT	1,995	37	11	8	JH6WRM	2,160	37	12	12	UL7TAAQ	28	507	17	6	7	OK3UO	14	179,583	818	25	G4BZC	67,488	387	24	52	
JA1BNW	1,584	24	12	10	JA2DN	2,032	45	9	7	UL7TAAQ	28	79,378	406	19	19	OK1FV	130,152	558	29	73	FAEROES IS.	3,243	129	3	20	
JA1B8Z	946	16	12	10	JA2TNO	128,310	574	27	51	UL7TAAQ	28	56,724	289	26	61	OK2TBC	56,724	289	26	61	FINLAND	8,556	124	5	18	
JH1IF5	28	37,920	233	27	33	JA1CMZ	104,975	436	27	58	UL7TAAQ	28	10,527	138	11	29	OK1MAC	8,694	95	13	29	OH1XX	93,390	1269	95	251
JE1HJJ	"	31,850	221	23	30	JA1JIO	22,356	159	21	33	UM8MAO	14	243,064	961	29	63	OK3CKY	8,505	112	10	35	OH6JW	83,094	1235	90	231
JA9BEX/3	"	24,957	185	20	27	JA2LJA	7,722	86	14	19	UM8NAJ	69,930	469	61	61	OK1ATB	8,056	96	14	24	OH1PS/2	"	"	"	"	
JR6RRD	23,997	159	21	37	JA1DTN	7,910	112	22	35	UM8MBN	28	28,050	190	17	38	OK1ASG	3,864	61	9	19	539,398	948	81	202	20	
JA1DQI	20,539	164	21	26	JA2TOM	17,043	112	22	35	UM8MCO	3.5	16,965	205	11	21	OK3TRI	1,386	63	7	14	FAEROES IS.	14	8,556	124	5	18
JA6AKW	13,116	127	19	19	JA2TOM	17,043	101	20	30	UM8MCO	3.5	170,744	491	30	74	OK1MSO	693	24	7	15	FINLAND	14	301,040	1162	29	77
JH3QFQ	12,320	127	18	17	JA7ECI	2,970	60	11	11	UM8MCO	3.5	120,898	1275	72	168	OK1MSO	693	24	7	15	OH1XX	189,180	580	55	125	
JA6WW	3,612	46	14	14	KH3BNJ/4	108	12	2	1	UM8MCO	A	209,922	856	54	139	OK3KFF	7	151,410	743	22	81	OH1PS/2	183,676	535	53	135
JJ1SYM	3,302	48	13	13	JA3WON/1	19,152	137	20	37	UM8MCO	3.5	237,128	668	59	125	OK3KFF	7	117,594	725	22	72	OH1PS/2	152,235	468	52	147
JA2ETQ	1,848	33	9	12	JA3WON/1	19,152	137	20	37	UM8MCO	3.5	39,042	265	14	40	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JA2GFE/1	"	798	22	7	7	JA3WON/1	17,043	112	22	35	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147
JE1CKA	21	183,951	778	27	54	KOREA	108	12	2	1	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147
(Op. JA9CUV)	"	"	"	"	JA1JIO	9,964	80	20	27	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JF1CDE	171,948	650	29	63	JA1JIO	4,640	65	13	19	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JA2H0	136,728	579	27	54	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JE2BNZ	99,216	484	24	48	JA1JIO	56	4	4	4	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JK1TII	88,403	441	26	47	JA1JIO	56	4	4	4	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JE1AYU	66,357	316	25	48	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JF3PNO	63,190	258	28	52	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JA9VBJ	58,893	314	22	45	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JA1GCF	52,184	205	19	35	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JH7AKT	5,050	85	16	20	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JH7TGUU	7,182	62	16	26	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JASGYMI	6,900	82	16	20	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JA3WJH	4,293	64	13	14	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JF1HEF	3,633	61	11	10	JA1JIO	2,520	49	14	16	UM8MCO	3.5	120,898	1275	72	168	OK1TA	117,594	725	22	72	OH1PS/2	152,235	468	52	147	
JG1PFE	1,862	34	9	10	JA1JIO	2,520	49	14	16	UM8																

FD80	8,118	100	13	28	DM3IM	7,998	90	12	31	SP7CTY	A	391,755	775	62	183	SM7CZC	5,016	59	10	34	UA4PAO	98,007	604	24	67				
F2BU	7,137	63	13	26	DM2EHL	5,180	103	10	27	SP5AF	"	134,067	453	59	142	SM8AUJ	7	64,408	357	22	61	UA6CQ	34,872	440	12	49			
F6ERZ	6,321	74	15	34	DM2FBM	1,664	31	9	17	SP1ADM	"	73,139	314	34	75	SM5VBF	50,048	481	16	52	UA6LLT	26,712	317	17	49				
F6RH	6,174	68	18	24	DM3BF	7	42,851	420	17	55	SP9EIJ	"	41,623	184	39	68	SM2COR	39,220	359	17	57	UA3ECF	22,330	314	12	43			
F6AUS	21	26,730	206	20	46	DM2OLE	12,355	250	9	36	SP9ZDQ	"	30,870	169	34	71	SM5CCT	15,565	192	13	42	UA4ACD	18,377	189	12	41			
F8TO	3,5	8,480	158	9	31	DM2AOM/A	"	6,468	124	8	34	SP2FAP	"	24,675	154	32	73	SWITZERLAND	"	"	"	"	UA1AGL	15,179	316	9	34		
F8EX	1,8	752	45	3	13	DM2PB	"	2,871	96	5	24	SP2PAH	"	16,353	177	15	54	UA6WF	6,464	105	11	32	UA4ACD	9,900	202	7	29		
GERMANY (FRG)																													
DK5WL	A	1,266,258	1586	98	256	DM3WM	21,576	300	11	47	SP2BRZ	"	"	"	"	UA3DLN	3,780	108	5	29	UA3AGX	3,190	104	5	23				
DJ8UJ	"	893,412	1374	84	215	DM3ZC	10,956	220	9	35	SP9CTW	"	14,679	100	26	37	HB9QA	"	62,964	258	47	112	KALININGRAD	"	"	"	"		
DJ2HH	"	611,289	843	86	193	DM3ZEN	"	6,516	135	7	29	SP7BFC	"	13,520	56	34	56	HB9KCC	"	24,885	145	24	55	UA2DM	A	281,088	668	65	161
DK4PH	"	493,060	849	81	196	DM2CKL	"	5,754	116	9	33	SP2JGW	"	8,910	126	12	42	UA2FCB	"	60,032	305	27	107	UA2EC	21	65,835	302	25	74
DK0FR/P	"	474,320	920	73	172	DM2PML	"	5,582	135	7	32	SP9AGS	"	7,260	109	13	42	WALES	"	"	"	"	WALES	"	"	"	"		
(Opn. DF7GR)																													
DK1QC	"	456,354	916	69	174	DM2CRB	"	2,366	86	6	26	SP9PT	28	7,410	54	19	38	GW3INW	A	93,720	453	39	103	GW3MPB	"	"	"	"	
DJ9MH	"	393,525	800	73	192	DM2CBV	"	1,675	75	3	22	SP9ADU	"	5,640	54	17	23	YUGOSLAVIA	"	"	"	"	YUGOSLAVIA	"	"	"	"		
DJ0XT	"	294,000	564	78	167	DM2CHJ	"	1,073	34	6	23	SP9CAV/9	"	"	"	"	YU3EY	A	1,636,605	1,706	112	293	UO2GDQ	A	729,540	1,174	83	232	
DL3LU	"	290,745	526	83	190	DM3VTL	"	726	33	4	18	SP5EXA	21	58,604	289	24	67	UO2PP	"	165,945	525	42	143	UO2GCN	21	46,268	270	24	62
DL780	"	287,280	738	60	150	DM3YPE	"	720	18	6	9	SP2JJC	"	7,938	73	17	32	YU1NGO	"	168,675	436	57	138	UO2GCN	21	45,710	534	24	61
DK3KD	"	282,700	689	65	155	DM2AUG	"	551	18	6	13	SP2AVE	14	98,673	562	25	68	YU1BM/1	"	83,424	424	34	124	UO2GEY	"	70,644	405	25	59
DL1JF	"	271,855	630	57	151	DM2AFA	"	100	10	3	7	SP6DMJ	"	48,888	284	20	64	YU1OCZ	"	70,784	553	40	88	UO2GBJ	"	17,712	190	15	39
DK4UF	"	270,710	596	62	168	DM4QL	"	99	9	3	8	SP5AGU	"	45,012	382	17	49	YU2BTU	"	9,701	73	22	67	UO2GBG	7	13,571	319	10	31
DK3SN	"	241,280	691	45	82	GREECE	"	"	"	"	SP2JJC	"	26,235	288	13	42	YU1EFG	28	27,208	276	25	51	UO2GP	"	13,571	319	10	31	
DJ9GW	"	240,847	442	54	163	HUNGARY	"	"	"	"	SP4DM	"	15,876	131	16	33	YU2CBV	"	7,250	54	21	29	UO2GP	"	3,264	72	7	25	
DL8YR	"	232,932	502	68	167	HABDU	A	407,120	730	81	199	SP2BMM	"	9,384	113	15	31	YU2CO	"	6,477	60	19	32	UO2GP	"	1,960	65	5	23
DK1FW	"	184,160	456	45	115	HA6HN	"	129,115	509	35	84	SP5ARH	7	50,396	386	18	68	YU1NZR	"	2,244	41	10	24	UO2GW	"	19,635	326	11	20
DK2AA	"	173,250	751	27	63	HA7TSU	"	45,066	305	27	84	SP5BAK	"	38,160	361	16	56	YU2OB8	21	254,767	948	30	77	UO2GW	"	3,389	133	5	20
DL1TI	"	171,666	603	62	124	HA7PQ	"	39,528	208	32	90	SP3FXY	"	1,058	47	4	19	YU4FRS	"	212,058	835	28	74	UO2OE	"	270	30	3	6
DL1YA	"	129,789	357	51	120	HA8UH	"	35,047	245	24	77	SP5PWK	3.5	30,426	339	14	52	YU3RMR	"	192,888	741	28	80	UO2NK	A	1,390,450	1842	102	268
DL1MD	"	115,940	346	52	103	HA8JK	"	14,820	137	17	40	SP3DAH	"	10,516	224	8	36	UP2SA	"	838,490	1230	85	235	UP2SAO	"	530,037	1091	77	216
DL8UP	"	96,695	409	44	169	HA9TL	"	4,233	146	9	26	SP2HPD	"	2,156	93	5	17	UP2PM	"	459,210	1091	85	228	UP2PM	"	459,210	1091	85	228
DK5MP	"	95,885	339	47	104	HA9TKL	"	4,233	146	9	26	YU1GMN	14	93,879	547	25	75	UP2PM	"	459,210	1091	85	228	UP2PM	"	459,210	1091	85	228
DK4AN	"	94,714	253	40	102	HA9KLF	"	4,233	146	9	26	YU1SF	"	4,956	82	11	31	YU1AJF	7	179,011	880	27	80	UP2PM	"	3,389	133	5	20
DI7FH	"	85,500	291	54	126	HA9WV	28	5,368	53	15	29	YU1ON0	1.8	1,316	99	2	12	YU1ON0	1.8	1,316	99	2	12	UP2PM	"	2,376	258	8	34
DK9ZQ	"	83,265	361	35	70	HA8UY	21	179,523	695	28	81	YU1OJ	"	132,172	483	45	127	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DL1LD	"	64,403	199	50	106	HA3HE	"	22,290	220	19	41	YU1OJ	"	105,391	475	45	98	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DK5GD	"	58,045	315	35	60	HA5KK	"	20,532	169	17	41	YU1OJ	"	88,644	330	47	131	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DL1CR	"	50,000	253	27	53	HA1Z2	7	39,536	507	13	43	YU1OJ	"	9,943	103	26	35	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DK8KC	"	42,240	223	25	75	HA5NP	14	91,000	718	18	47	YU1OJ	"	8,424	110	16	36	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DK3YD	"	41,310	204	31	71	HA7TM	"	6,202	264	14	44	YU1OJ	"	52,822	321	28	70	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DK8AN	"	38,097	53	18	31	HA7LML	"	11,925	242	8	37	YU1OJ	"	43,672	239	34	69	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DK8AX	"	37,140	714	30	65	HA7LML	"	11,925	242	8	37	YU1OJ	"	567	29	6	15	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DF1DX	"	32,020	520	25	55	HA7LML	"	8,048	731	16	46	YU1OJ	"	50,952	449	16	46	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DK3GI	3.5	165,216	967	23	73	HA7LML	"	31,232	230	18	46	YU1OJ	"	32,832	410	14	43	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DL7AV	"	130,916	822	23	69	ITALY	A	129,400	550	70	171	YU1OJ	"	132,172	483	45	127	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DK2YJ	"	58,048	617	15	49	ITALY	A	146,400	661	44	116	YU1OJ	"	76,572	494	29	79	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DL1BU	"	38,280	356	15	45	ITALY	A	146,400	661	44	116	YU1OJ	"	74,360	208	48	121	YU1OJ	"	132,172	483	45	127	UP2PM	"	2,376	258	8	34
DA2LJ	"	27,931	378	12	41	ITALY	A	15,879	114	23	44	YU1OJ	"</																

MULTI-OPERATOR SINGLE TRANSMITTER NORTH AMERICA											
UNITED STATES											
K1PR 1,714,172 1474 118 286											
K1XX 1,447,419 1325 106 275											
K1ZZ 1,342,160 1241 113 267											
N1AC 852,204 1029 77 205											
K2B2U 1,755,914 1581 110 276											
W2UI 235,222 393 74 144											
WA2HDD 13,593 83 27 42											
N3RD 1,239,315 1125 112 272											
N3AW 178,994 833 93 214											
K3RS 645,532 804 93 191											
W3HB 414,426 573 91 198											
W3UO 314,340 448 83 177											
W3EVW 229,827 392 63 150											
WA3NAN 154,700 284 66 135											
K3KA 2,520 27 13 23											
K3KO 2,131,746 1573 133 322											
K3KPS 54,990 298 28 102											
K3KZJ 39,960 346 33 78											
OK3KAP 318,816 679 69 177											
OK1KUR 298,109 679 63 196											
OK1KK/P 153,608 543 55 127											
OK1KONF 127,890 568 41 106											
OK3KTD 127,710 358 56 109											
OK3KRB 91,045 444 38 93											
OK1KPU 82,350 349 42 108											
OK1KTR 70,700 412 29 71											
OK1KXP 70,110 465 31 93											
OK1KXZ 23,192 86 41 63											
OK3KQ 4,230 83 9 38											
OK1KQJ 1,881 73 4 5											
OK1KVV 1,584 42 6 12											
K5JA 2,087,400 1727 131 332											
K5YV 124,752 272 66 118											
W6XR 1,630,608 1770 111 211											
W6BH 1,444,044 1680 106 191											
K6SE 1,333,180 1345 125 224											
K6DC 868,400 1158 102 158											
W6JUD 644,436 936 93 150											
N6GG 610,848 858 98 154											
W6KG 538,356 922 77 127											
W6BIP 457,236 710 90 144											
N6OZ 124,614 338 58 76											
K6SMH 11,163 79 26 35											
K7RI 771,096 1169 96 132											
W7KKR 18,340 75 36 59											
N6ET 744,800 883 103 201											
K8OT 64,530 182 51 84											
W8IZD 260 66 76											
W9LT 1,003,884 1019 111 246											
W8BVLV 10,362 115 76 39											
W8WP 1,074,048 1010 124 260											
W8SD 979,616 1003 121 231											
W8YR 94,120 247 49 81											
W8BPG 875 26 13 12											
KL7MF 376,420 1294 46 72											
VE1MOT 111,592 627 22 52											
V02EPA 816,651 1749 75 144											
CY3AKG 1,537,557 1876 113 234											
CY3HFS 497,367 1351 61 108											
VE6ASI 96,950 1318 32 43											
VE7AUB 7,614 137 17 10											
HA1HT 1,858,850 2240 65 113											
MONTSERRAT 2,766,433 3592 97 240											
SAINT MARTIN 2,152,024 3592 97 240											
PJB8JM 862,045 1597 77 168											
ASIA U.S.S.R.											
EP2SV 2,505,058 2554 101 272											
JAPAN 1,139,004 1520 96 185											
JE1ZWT 1,139,004 1520 96 185											
JA2YKA 625,940 929 88 150											
JA7YFB 326,155 569 81 131											
JA0YAN 315,819 613 77 112											
JA1ZT 291,600 666 88 150											
JA7HYY 180,244 283 42 68											
JA3YEE 86,240 283 42 68											
JA5YAS 86,240 224 19 17											
EASTER IS. 1,451,050 2405 128 390											
CEBAE A 145,666 919 55 106											
ECUADOR 509,190 1045 68 97											
HC1BU 51,322 267 26 41											
M4J/HC1 3.5 77,748 463 21 36											
FERNANDO DE NORONHA 2,021,024 2671 89 192											
NETHERLANDS ANTILLES 146,624 418 43 73											
PJ9CG A 3,334,884 3255 108 240											