

1978 CQ Worldwide DX Contest - CW Results

By LARRY BROCKMAN, N6AR*, AND BOB COX, K3EST#

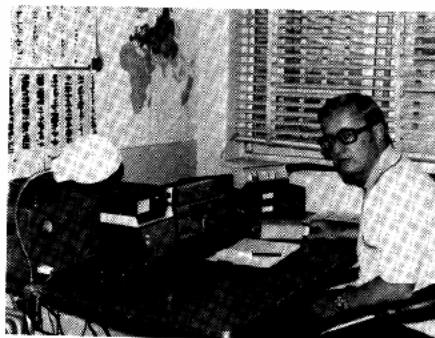
The hour is very, very late, and the static crashes are intense and frequent. Bleary eyed, our hero once more tunes the low end of forty. "What's this?", he asks, as he picks up an endless stream of squeals? The S-meter jumps to 10 over 9; the din is deafening. "No apparent recognizable calls in that mess", he reflects. "What a pile-up!" But then, as if by magic, the din is gone; and there, sneaking from behind the static crashes and stragglers is the prize. "...Di di di di di, dah di, dah di, di di dah dah dah, di di di dah dah...", rings out through the headphones. "Holy Mackerel!", exclaims our hero. All of a sudden the adrenaline is flowing. The eyes are now bright and intense. In a flash our hero has his VFO zeroed in on the prize. There, on 40 CW, is zone 23! But who? Not to be denied, our hero plunges in with his call. As he comes up for air, he hears the prize once more. JT1AN. "Son of a gun, if only . . .", and right back into the pileup he goes.

And that's the way it was all over the bands for the 1978 CW contest. Electrifying suspense and action - never a dull moment. With a record 2400 logs received, 1978's total CW and Phone entries broke the 5000 mark for the first time ever, up almost 13% from last year! Not only that, an astounding 4 world records, 18 continental records and 4 stateside records were set - 26 in all. Conditions weren't even all that good, a real come down from the Phone contest we reported on last month.

Single Operator Winners

Marty, OH2BH, operating CT3BZ at his vacation villa in the Madeira Islands, captured the new Single Operator All Band World Record set

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Here's that rare and elusive STORK (love that call) operator, Tom, DL7AV, posting top honors for Africa in this year's 21 MHz single band efforts.

last year by Dick, N6AA at 9Y4VT. This was a sweet victory indeed for Marty, who came in second to Dick in this year's phone contest. Marty's great 5.1 Million score and fine phone

score also won him the combined phone/CW trophy. Congratulations, Marty.

Running close behind Marty were Pete, N6CJ, at KP4RF, and Leif, OZ1LO, at C5AAO, with only 260 K separating the top three scores. Marty's incredible 1790 QSOs on 10 meters, and a few extra country multipliers made the difference.

Three continental single op, all band records fell this year. Besides Marty's new African record, new records were set for Asia by UV9AX, Val; and for North America by KP4RF.

Stateside single op, all band honors went to Rich, W3RJ, who broke W3LPL's 1977 record by 600K. Frank, W3LPL finished second, 200K above his old record also. The East Coasters swept the top four, with W1ZM and N2LT rounding out the field.



Frankford Radio Club's HK0COP crew is shown here along with the Cessna Citation that took them to San Andres. Back row, from left: John, W3MA; Ed, N3ED; Dawson, K3MBF; Chris, the co-pilot; the local tree climber; and Al, N3AD. Front row, from left: Walt, WA3LRO; Francisco, HK0BKX; and Dave, N3RD.

U.S.A. Club Scores

Frankford Radio Club	107,990,050
Potomac Valley Radio Club	84,992,078
Yankee Clipper Contest Club	66,696,804
Southern California DX Club	30,602,847
Western Washington DX Club	27,413,430
Northern California DX Club	20,259,149
Texas DX Society	16,360,481
Southeastern DX Club	14,212,032
Murphy's Marauders	13,601,160
North Texas Contest Club	13,457,488
San Diego DX Club	12,725,070
Central Arizona DX Club	11,603,270
North Florida DX Association	8,440,542
Central Virginia Contest Club	7,041,878
Northern Illinois DX Association	6,817,526
Mad River Radio Club	5,495,254
Delta DX Association	5,187,611
Indy DXers	4,864,998
Willamette Valley DX Club	4,387,151
Michigan DX Association	3,894,895
Colorado Contest Conspiracy	3,593,448
Gloucester County A.R.C.	3,115,241
Kansas City DX Club	3,085,464
Alamo DX Amigos	2,864,594
Eastern Iowa DX Association	2,774,795
Fort Wayne Radio Club	2,666,798
Boiled Owls of New York	2,501,995
Virginia Century Club	2,445,287
ILL WIND Contesters	2,335,038
Flyweight DX Group	1,532,884
Wireless Institute of the Northeast	1,309,288
Milwaukee DX Association	1,176,451
Red Stick DX Club	821,008

Northern Ohio A.R.S.	665,325
Juliet A.R.S.	660,071
Waukegan V.H.F. & A.R.C.	644,635
Neenah-Menasha A.R.C.	581,389
Central Illinois DX & Contest Club	516,877
Northern California Contest Club	403,534
Four Lakes A.R.C.	333,423
Buffalo Area DX Club	244,010
Mississippi Valley DX & Contest Club	228,064

DX Club Scores

Chelyabinsk Region Radio Club	30,095,849
Rhein/Ruhr DX Association	22,955,318
Voroshilovgrad Radio Club	20,031,881
YU DX Club	16,710,916
Kaunas Polytechnic Institute	15,420,960
South German DX Group	13,148,595
Lithuanian Contest Group	11,877,832
Toronto DX Club	11,579,233
Danish DX Group	8,847,001
Channel Contest Group	5,815,807
Leningrad Radio Club	5,214,314
DX Club of Saar-Pfalz	4,108,585
SP DX Club	2,740,770
Shizuoka DX Radio Amateurs	1,468,839
Nagoya University Radio Club	1,207,748
Uniao Besouros do Recife	952,254
DX Hunters Group of Brazil	935,232
Tallinn Radio Club	890,621
Polish Boy Scouts Signal Club	365,028
Association Radioamadores da Biera Alta	316,868
CW Group of Argentina	172,913
Swiss DX Club	43,118

In the Single Band categories, it was the high bands (21 MHz and 28 MHz) that attracted most of the attention. For the first time ever, a CW en-

trant broke 1 Million on a single band. Our congratulations to Jorge, LU8DQ, for his new highest ever single band CW score, a super 1M + 21 MHz ef-

fort. Besides South America, records were set for 4 other continents on 21 MHz - Asia by JA2VUP, Europe by YU3ZV, North America by N6CW, and Oceania by KH6XX. Only the 1970 African record of TJ1AW remained intact, but even that one was in jeopardy, with ST0RK falling just short of the mark this year.

On 28 MHz, new continental marks were set by HI8MOG for North America and 4X4UH for Asia, but it was Ron, FY7BC who won this year's 28 MHz top honors. Doug, VR3AH, was heard all over the place in his fine 20K Single band 160 meter effort, a new Oceania single band record, and tops for the world this year. Likewise, on 80 UI8LAG topped the old Asian record as he took the top spot for 1978, while AH6Z bested VK6HD's old Oceania record on 40 and finished first in the world on that band. Herb, KV4FZ took 14 MHz top honors world wide, adding to his abundant contesting achievements.

Stateside single band efforts by Terry, N6CW (21 MHz) and Bud, W6VPH (14 MHz) set new U.S.A. high marks. In fact, it was a great year for the West Coast in the single band categories, with W6's and W7's in the running on all bands but 10. Rounding out the U.S.A. single band winners were perennial winner K1PBW on 160, W5UN on 40, K5NU on 80, and K8MFO on 10.

Multi Operator Winners

The World High Multi-Operator/Single Transmitter effort for this year was posted by RF6F at 5.9 Million.

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However, the Voroshilovgrad Radio Club group, headed by UB5EC, fell shy of the 1977 6.1M record set by their rivals from UK6APA at 4L6M. Second place was taken by the HH2CQ expedition fielded by the North Florida DX Club. Cheer up fellows, at least you set a new North American record. Running third in the world, but posting a new 2.9 Million U.S.A. record, was N3RS, manned by our old friends at W3WJD.

Back for an encore after last year's record setting Multi-Multiphone score, the gang at EA8CR demolished the old world multi-multi CW record by 6 Million points, with their fantastic 17.7M score. They'll doubtless be back at it in the phone contest this year in an effort to recapture the phone mark lost this year to PJ9JR. Several other fine Multi-Multi scores were overshadowed by the awesome EA8CR achievement. Running second was the Chelyabinsk Region Radio Club's EX9A team (normally UK9AAN) which set a new 8.7 Million Asian Record. In third place was Frankford Radio Club's HK0COP team, with a new 8.1 Million North American record. New all time honors for Europe were captured by YU1BCD.

The stateside Multi-Multi team from the K2GL contest club won stateside high at N2AA with a fine 5.1M effort. Close behind were W4BVV and W2PV.

QRPP Category

In the new QRPP category, OA8V set the world high mark, followed by G4BUE. Paul's point total just edged out Chris's fine multiplier count, with the QSO totals about equal. The high U.S.A. score was supplied by W5YZ, with KH6JLH/W8 close behind. Good show, guys, but we are hoping for a larger number of low power entries next year.

Club Competition

An incredible 107 Million points was amassed by the Frankford Radio Club as they locked up a new all time high club score total for the second year in a row. PVRC was second at 84M, with the upstart Yankee Clippers group third at 66 M, followed by the Southern California DX Club way down in the running at 30 M. In the DX Club scene, the Chelyabinsk Region Radio Club unseated the Rhein Ruhr DX Association for the first time in years with a fine 30 Million points. Congratulations on the fine group efforts fellows.

It seems that we've had a number of comments this year on the meaningless 59 or 599 exchange. Some are lobbying for a new exchange format -serial numbers, age, etc. Any way

C.W. TROPHY WINNERS AND DONORS

Single-Operator, All Band

World

Martin Laine, CT3BZ
Donor: W2AB Memorial (K4FW)

U.S.A.

Richard Klinman, W3RJ
Donor: Frankford Radio Club

Canada

VC7WJ (Opr. Stuart Santelman, K1UA)

Donor: Canadian DX Association

Caribbean/Central America

Lorne Libin, XE1VV

Donor: Mort Grotenstein, N6JT

Europe

George Rumiantsev, UA1DZ

Donor: W3AU Operators

Africa

Martin Laine, CT3BZ

Donor: Gordon Marshall, W6RR

Asia

Valentin Boshchenko, UV9AX

Donor: JA CQ Magazine

Oceania

Chuck Rademacher, ZL1ADI

Donor: Maui Amateur Radio Club

Single Operator Single Band

World (21 MHz)

Jorge Bozzo, LU8DQ

Donor: W2JT Memorial (No. Jersey DX Assn.)

World 3.5 MHz

Alex M. Konnikov, UI8LAG

Donor: Fred Capossela, K6XX

U.S.A. (14 MHz)

Bud Ansley, W6VPH

Donor: No. Illinois DX Association

Canada (14 MHz)

Raymond Post, CG6KW

Donor: Canadian Amateur Radio Federation

Caribbean/Central American (14 MHz)

Herb Schoenbohm, KV4FZ

Donor: DX Club of Puerto Rico

Europe 14 MHz

YU2CDS (Opr. Tomo Huzjak, YU2CT)

Donor: G2LB Memorial from his friends

South America (21 MHz)

Jorge Bozzo, LU8DQ

Donor: Rafael De Leon, CX3BR

Oceania 21 MHz

KH6XX (Opr. Danny Eskenazi, K7SS)

Donor: Pacific Radio Amateur Transmitting Society

Multi-Operator Single Transmitter

World

RF6F (Oprs. UB5EC, UB5MCD, UB5MCI,

UB5MDC, UB5-059-5)

Donor: Anthony Susen, W3AOH

Multi-Operator Multi-Transmitter

World

EA8CR (Oprs. EA2OP, EA7ALG, EA7TL,

EA8CR, EA9EO, OH2BAD, OH2KI/OH3XZ,

OH2MM, OH6DX)

Donor: Hazard Reeves, K2GL

U.S.A.

N2AA (Oprs. N2AA, N1XX, W1PM, K2BQ,

K2GL, K2NG, K2SS, K2TT, K2UR, WB2SFB

WB2VYA, Robert Walsh)

Donor: Rush Drake, W7RM

Contest Expeditions

World Single Operator

C5AAO (Opr. Leif Ottosen, OZ1LO)

Donor: CQ Magazine

World Multi-Operator

HK0COP (Oprs. N3ED, N3RD, N3AD,

K3MBF, W3MA, WA3LRO)

Bill Schneider, K2TT

Top World Single Operator-Combined Phone/CW

World

Martin Laine, CT3BZ

Donor: John Knight, W6YY

Club Trophies

World High

Franford Radio Club, 107, 990, 050

Donor: CQ Magazine

Most Improved Radio Club

Frankford Radio Club, 107, 990, 050

Donor: Southeastern DX Club

you slice it, we plan to retain the zone number in the exchange, but perhaps a change from RST would be welcome. Two advantages to a consecutive serial number approach are that it helps us maintain order in the Multi-Single category and it would make it difficult for entrants to pad their logs (some unprincipled guys do that). Please let us know how you feel about this issue so we can consider it for a rules change.

Our duplicate cross-check sheet requirement for bands on which 200 or more contacts were made is beginning to catch on. This year's situation was greatly improved. Beginning next year, we will seriously consider disqualifying an entrant who does not submit a check sheet, since we have now given 2 years of grace to the multitude.

In the last several years computerized logs and cross checking have become very popular. Whether or not you use a computer, we remind you that you must still send us cross check sheets with your log. A com-

puterized alphabetical listing of all calls worked on each band will suffice. On computerized logs, we have no hard and fast rules yet. But, be advised that most of these logs have a great many keypunch errors in them which can hurt your score unless you check the printouts over before you submit them. Most of you don't do that. Also, those clean recopied or computerized logs don't show us what happened in the course of the contest as well as your messy originals. It is particularly easy to bury padded contacts in recopied logs, for example. So, we recommend that you send us a photo copy of your original even when you recopy or use a computerized log.

We had an entrant this year who revealed over 20% error in copying JA call signs in a sample that we cross checked, and this is just not acceptable. We urge you all to concentrate on accuracy, not so much speed. Also, on Multi-single logs that exhibit more than a token number of time rule violations, we now intend to

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
CT3BZ	274/14/41	526/16/49	856/28/84	810/24/64	1790/23/73	
KP4RT	57/8/15	334/18/54	672/24/65	1001/30/81	766/29/82	967/26/76
C5AAO	2/1/1	199/11/26	888/22/53	791/26/65	839/26/64	1485/23/69
PJ9CG	47/9/12	283/20/45	559/22/58	747/33/82	881/27/63	746/24/62
Z5SWW	52/6/5	151/18/30	756/30/62	810/28/56	1269/23/58	
W3RJ	9/9/8	54/16/36	210/22/65	516/34/88	371/28/76	420/28/83
ZL1ADI	13/4/3	318/15/29	857/30/68	425/22/34	1062/20/35	
XE2MX	61/4/3	354/11/14	638/18/26	739/28/56	774/25/44	654/21/35
UV9AX	208/16/42	225/19/48	579/30/67	371/24/60	339/21/59	
UA1DZ	298/13/48	292/22/56	653/33/71	593/29/76	169/26/61	

WORLD TOP MULTI-OPERATOR - SINGLE TRANSMITTER

RF6F	463/19/65	1069/22/60	1209/35/95	812/28/75	699/23/66	
HH2CC	58/8/14	329/17/49	853/21/60	1035/34/89	1236/29/86	1165/24/71
N3RS	18/10/15	82/19/53	383/27/79	428/34/90	554/31/91	338/28/83
YU3EY	39/5/15	327/14/54	361/22/73	507/34/96	515/32/77	359/29/82
LX0RL	745/14/59	810/23/65	309/24/63	633/25/57	484/22/59	
K1PR	5/5/4	50/16/41	460/27/75	452/30/80	478/30/77	265/25/74

WORLD TOP MULTI-OPERATOR - MULTI TRANSMITTER

E8ACR	123/9/31	564/13/54	1039/19/64	2997/36/112	2693/34/109	2383/31/93
EX9A	651/14/57	1436/26/73	2301/36/103	1471/33/80	1023/28/71	
HK0COP	21/6/11	565/15/39	1216/23/59	1921/32/88	2217/29/84	1463/24/65
UF6A	769/13/52	1362/22/77	1665/37/107	1345/35/92	1063/28/77	
N2AA	62/12/19	164/19/55	427/28/84	980/36/105	863/31/99	498/27/86
W4BVV	25/10/17	144/19/50	595/28/88	810/34/93	447/31/96	281/26/49

uniformly reclassify them as Multi-Multi regardless of their objections.

Credits

It is just absolutely fantastic how our WW Contest has grown since its inception. We think it's the best conceived, best run contest around, and has the widest appeal worldwide. To make it the success it has become requires the dedication and efforts of all of you submitting logs. Also, the fine group of guys who help process the logs deserve their due. This year we have two new members of the CQ WW Contest Committee. Yuri Blanarovich, VE3BMV and Jim Sullivan, W7EJ have joined our ranks. Rounding out the committee are Chairman, Frank Anzalone, W1WY; Glen Rattmann, K6NA; Gene Walsh, N2AA; Terry Baxter, N6CW; Lenny Chertok, W3GRF; Gene Zimmerman, W3ZZ; Dave Donnelly, K2SS; Lew Jenkins, N6VV; Fred Morris, AD6C; Tom Taormina, K5RC; Reg Toume, N6SV. A job well done, that's for sure.

And now, in just a few weeks, the 1979 CQ WW Phone contest will be with us (rules in last issue). With the sunspots in high gear, be prepared for a fantastic experience. See you in the melee.

73, Larry, N6AR and Bob, K3EST

USA QRM

111 QSO's per hour to Europe Sunday morning...K1ZZ. 10 Meters revived Sunday and prevented total disaster...W1OO. Lousy conditions...K1PBW. 25% of all contacts made during 2½ hour JA opening...W2LYL.

Anticipation, exhilaration, frustration, annihilation, exhaustion-all in that order...N3AW. Never again with 100 watts...K2AJV. Neighbor came over to complain about my lighting up his bathroom lights. He left 3 hours later with a copy of the code...K3SME. 9V1RS answered my CQ with just 10 minutes left...N4RV. Trying to find operating time Thanksgiving weekend is a family crisis...AA4DR. Most enjoyable contest of the year-always...W5BE. ST0RK has the World's most fantastic call sign...N5CR. Rotor stop failed and broke 40 through 10 co-axes 25 hours into the contest-had to quit...N6VI. My call is so long it takes two contest QSO's to send it...WB6JMS. Worked a JA on 10 meters using a 150 watt light bulb load...W6SWM. With a decent 10M European opening, the West Coast might have won this one...W7KW (Opr. K7GM). How come conditions always seem to crash on the CW weekend?...W7IR and N7DX. Those 10 Meter African pileups are something else...W7JYW. Like to see the frivolous 599 report changed to something more unique...N7ES. Hope to see more DX activity in the Novice bands...WN7UMU. At 72 years of age, you don't stay up all night...W7BCS. Great to hear the Europeans on 10 instead of just hearing the East Coast working them...K9DX. Noted a new kind of QRM-Cbers on sideband in our CW band...N9DP. Happiness is calling CQ on 10 and having D68AD come back...WB9POH. Amplifier blew up, bad thunderstorm, bands poor, QRM terrible-had a great time...W0IUB.

USA TOP SINGLE OPERATOR - ALL BAND

Station	160	80	40	20	15	*10
W3RJ	9/9/8	54/16/36	210/22/65	516/34/88	371/28/76	420/28/83
W3PL	16/10/14	41/12/31	192/23/62	192/30/74	614/27/77	304/27/83
W1ZM	18/9/16	52/15/35	231/23/69	346/30/73	364/28/74	354/25/67
N2LT	5/4/3	72/16/37	151/23/62	387/32/75	469/27/76	302/25/78
W7KW	7/5/5	105/14/22	433/25/42	517/31/71	395/27/66	146/21/40
K9DX	18/8/12	60/18/34	250/24/65	470/34/72	389/26/63	154/22/59
K6NA	11/7/7	96/18/25	406/27/50	320/33/70	399/27/57	201/22/44
N9MM	4/3/4	36/15/25	164/25/61	503/32/76	360/28/65	261/24/61
N4RR	5/4/4	46/14/28	202/19/46	392/25/60	400/28/71	242/24/53
W2REH	6/4/5	65/17/42	126/21/51	368/33/84	327/30/82	162/25/55

USA TOP MULTI-OPERATOR - SINGLE TRANSMITTER

N3RS	18/10/15	82/19/53	387/27/79	428/34/90	554/31/91	333/28/83
K1PR	5/5/4	50/15/41	460/27/75	452/30/80	478/30/77	265/25/74
N4AR	10/8/9	40/16/36	373/27/78	434/34/88	497/30/82	250/29/77
K5JA	13/9/10	42/14/23	419/28/74	386/34/85	474/31/85	286/25/70
W3BCN	14/7/11	68/16/38	168/22/65	649/33/85	352/32/88	277/28/77
K4VX	11/7/10	31/13/24	291/26/75	348/31/71	550/29/76	261/29/78

USA TOP MULTI-OPERATOR - MULTI TRANSMITTER

N2AA	62/12/19	164/19/55	427/28/84	980/36/105	863/31/99	498/27/86
W4BVV	25/10/17	144/19/50	595/28/88	810/34/93	447/31/96	414/29/87
W2PV	84/10/18	148/18/51	567/29/83	997/33/102	702/30/95	477/27/84
K3WW	37/12/18	144/21/62	516/26/87	748/35/102	762/32/95	46//29/85
K5RC	21/7/12	110/19/37	614/30/86	773/38/104	756/29/88	522/29/79
K0RF	27/11/15	172/22/38	691/31/81	681/36/92	618/29/83	281/26/49

DX QRM

Fantastic 10 M opening...VU2GO. Although a fellow countryman, Murphy showed no mercy...E12BB (opr. at E11AA). Received 599 from Japan transmitting into a dummy load...WH2AAF. We need a Q signal to indicate that stations have worked before...VK3AEW. Sure would like to operate from a quiet location for a change...KG6JAR. Good conditions on 160 the first night only!...VR3AH. Had to call VO2BH on phone to get zone 2....VO2CW (Don't we know it, ed). First contest in six years, great to be back...VE1TG. New beam helped...CF5RA. Where were the Europeans? ...VE7CML. Electrical storms bad on 40 and 80...ZS6WW. A most enjoyable contest...ZS2RM. No line voltage for 18 hours!...ST0RK. Biggest pileup only lasted 20 minutes...AP2MC. This year I tried the most difficult band- 40 meters. Even with the 30 dB attenuator, the Eastern European QRM made it difficult to copy the West Coast...I2FGP(ex 601FG). Very funny propagation on 40 this year-unexpected openings in the afternoon to the Far East, the West Coast on Long Path...YO3BEJ. Wow, so many Americans on 10 meters...JH1ENA. There was no one on 14 MHz. because the conditions on 21 and 28 were better...JR1RNC. Great...LX0RL. Worked a lot of JAs...EX9A. Heard ST0RK calling CQ with no takers...HH2CQ. A lot of snow pulled down the 40 meter wires, the AC was off for 3 hours, Murphy sure came around!...YU3EY. The QRM in our operating room was worse than 20M...JH1ZLA.



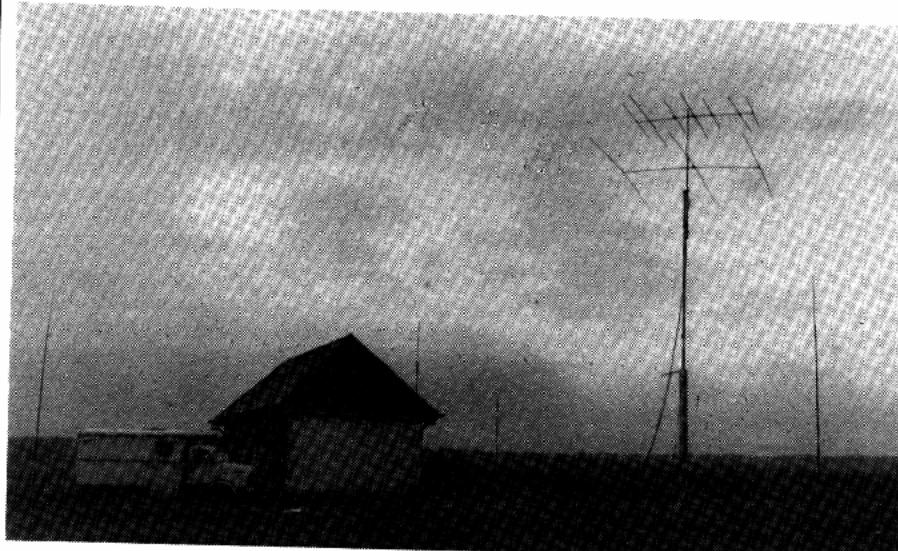
Two of the younger set, WB4SPB and WB4RUA man WB4RUA's station for the contest.



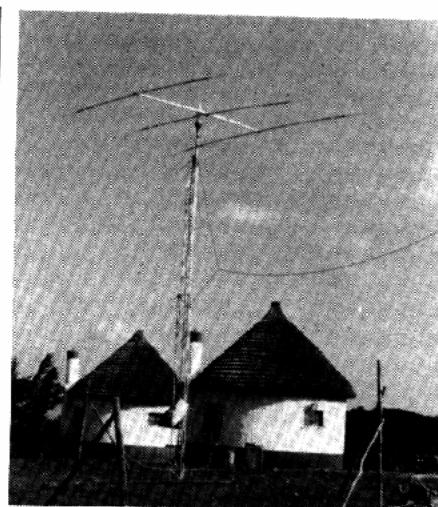
Barb Kelley "mans" the 40 meter position at KL7IRT's multi-multi station. Good show, Barb.



Roger, G3SXW, is shown here at his former EP2IA location. For QSL's check out W4YE.



LX0RL's antennas are shown here - note the wire dipole antennas for the low bands.



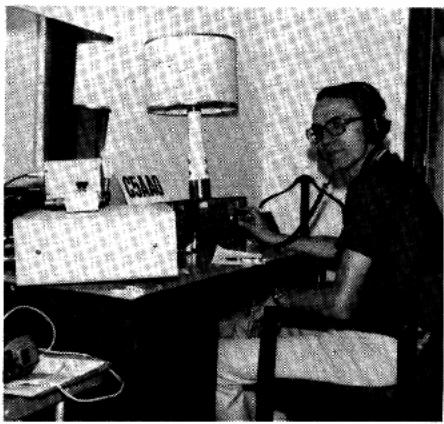
Marty, OH2BH sends this photo of his Madeira Island CT3BZ QTH. Just 5 steps in back of hut there's a 2,000 foot drop to the U.S.A. Wow!

STATION OPERATORS

Multi-Operator Single Transmitter

AL7T & KL7HMO. DF0SAR: DL8AN, DL8CH, DL8CM, DL8DL, DL8FR, DL8HA, DK5VD, DK0FR: DJ1HW, DK4GZ, DF9TF, DK1TX, DL8ZN, DF7GR, DF8GL, F9UJ, DJ7GY, DB6GW, DD8GW, DL0KF: DL2ZT, DJ2BV, DJ4FZ, DJ8FR, DK8LE, DF3LP, DJ7SW, DJ9TO, DJ1FC, DL0HN: DF1SZ, DF1TR, DF3SV, DJ9EV, DK2ZO, DL1HS, DL9TT, DL0WU: DJ4AX, DK4TP, DK5EZ, DK4EM, DK6JZ, DL9DY, DL9GSA, DA1UM. **DM3GM:** DM3BGM, DM3SGM, DM2JFM, DM2AGM, DM2DEM, DM2FIM. **DM3PL:** LUTZ, BERND, MATTIAS. **DM3QO:** DM3PQO, DM3YQO, DM2CMF, DM2DTO. **DM4CN:** 8 OPERS. **DM4FM:** DM4ZFM, DM2FDM, DM4XF. **DM5VL:** DM2GGL, DM5WVL, DM5VVL. **EI1AA:** E12BB, EI3CP, EI6CW, EI7H. **E19CB:** K3RV, N8ET. **F6KAW:** F6ARC, F6ASS, F6AUO, F6BPK, F6EBN, F6FBQ. **G4DSE & G3RZI:** G4GXL, GW4GCC, ANDREW. **H41KSL:** HA1SL, Nyerges. **HA1KSS:** Bokor, (HAITI), Csoka, Schanner, Barta. **HA1KZZ:** HA1ZZ, 1XV, 1ZL, Nemeth, Czolpouri, Boilogh. **HA2KME:** Adam, Bereznyci, Gersbosi, Kovdor, Varga, Garaess. **HA2KMG:** Svig, Gerendas, Hitzpal, Polacsck. **HA2KML:** Inczedi, Nagyszilisany. **HA2KRZ:** Raduly, Kanizay, Balogh, Simon, Sipas. **HA3KHB:** HA3GO, 3HO, 3HU, Szarka, Harsany. **HA3KNA:** Hegedus, Szabo, Hauszkecht, Kocsi, Neumann, Weisz. **HG5A:** HA5GF, 5FN, 5OM, 3NU, 7RY, 5FM, Voros, Ehmann. **H45AKI:** Arato, Pocsi, Kovesci, Kovesci. **HA5KBC:** Seres, Tanay, Komantinger. **HA5KBM:** Lukacs, Papp, Vago. **HASKFL:** Olah, Szollos, Kincses, Baranyi, Szoke, Osztas. **HASKJC:** Szabo, Matyus, Kovacs, Holman. **HA5KKC/2:** HA5LV, 5MA, 5MD, 5MO, 5KP. **HA6KVB:** Suszter, Simon, Szabo, Gergelyi, Varga, Csepany. **HA6KVC:** HA6ZV, 6ZQ, 6-304. **HA6KZS:** Szasz, Kovacsne, Sapi. **HA7KLC:** HA7LM, 7MS, 7NA, 7-058. **HA7KLG:** Toth. **HA8KUA:** Kiss, Maczalik, Miskolczi, Risko. **HA8KVG:** Kulich, Pinter, HA8BM, 8BS, 8AA, 8-753. **HG8U:** HA8UD, HA8UI, HA8ZS, HA8UY, HA8-069, HA8-061. **HA9KOB:** HABRU, HA9PV, HA9RB, Lakl, Fodor. **HA0KDA/p:** HA0HZ, ØHG, Andresi. **HA0KHW:** HA0IG, Papp. **HA0KLE:** Kurucz, Hernadi, Fabian, Deveny, Tomasovzky, Szalontai. **HA0KLU:** Macsuga, Szabo, Szakolczai, Roka, Nagy, Nagy. **HB0AYZ:** HB9AYZ, Roland, HH2CQ: W40RT, WA4DRU, N0TO, W4QM, WB4OSN, W2SR, N4XR, HH2TD, IS9TOA & IS0DTK. **JA3YEE:** JA6HFV, JA3DJ, JA3JF, JE3PZC. **JA2YKA:** JH2QXG, JR3URO, JA4UDP, JH4TCM. **JA4YFH:** JH4DIT, JA4XKI. **JA4YGM:** NHK Ham Club. **JA6YDH:** Nagasaki University A.R.C.K1PR & K1TO, K1XM, WA1MAO. **K2BK & W2VJN:** K2FL & K3PA. **K4CG:** K3WUW, WA3ZJT, N4MO, WB4BQX. **K4EBY & K1FR:** K4PB & W6BJH. **K6XV & K6PYJ:** N6FJ. **K6YK & WR5ACZ:** K0AT & W0WP. **K0SR & WB0HCH:**

K0UK & K9MWM, K0CL, W0KEA. KL7HR & KL7IKX, WL7ABB, KL7PJ & AL7H, WA9IXF. LA1H: LA4KQ, LA8UL, LA9OJ. LJ2S: LA6YT, LA6ZT, LA4XT. LX0RL: LX1PD, DJ9NX, DK1PD, DK5GB, DK5HH, DK6QI. LZ1KKZ: Rusev, Tenev. **LZ1KRB: Marinov, Zlatanov, Kayklev. **LZ1KPM:** Paskalev, Zdravkov, Valtchev. **LZ1KRB:** Djambazov, Stoyanov, Jordanov. **LZ2KRR:** Mihajlov, Ovtcharov. **LZ2KSB:** Sabev, Kivilov, Genov. **LZ7A:** LZ1AM, TAQ, 1BC, 1CP, 1FP, 1GU, 1VW, 1UO, 2YE, Pavel, Bojdar. **N1AC & N1DG:** N3DG & N2SB, K3KNH, N3RG, N3RL & 2M NET. **N3RS & WA3NNN:** W3XU. **N4AR & K4KMS:** N4KG, WBKIC. **N4CQ & K4GFH:** N4RA & WD4AXM. **N4TX & 2M NET:** N4UM/CGA: WA4YUE, WD4IYS, N4BP, N4UM. **N6UC & N7RK:** N7EF & 2M NET. **N9BN:** AA9N, KA9BBO, N9AKW, WD9HBM, WB9LV, WB9ZBK. **OK1ALW:** OK1ALW, DWA, ADS. **OK1KCF:** Club. **OK1KCI:** OK1AMI, 1A1A, 1DIS, 1WC, 1MIL. **OK1OFK:** Club. **OK1KPU:** OK1AXA, 1MU, 1JD, 1AUN. **OK1KPZ:** Club. **OK1KQJ:** Club. **OK1KRD/p:** Club. **OK1KRY:** OK1AQG, 1AQO, 1DCM, 1DCM, 1DMW, 1DGC. **OK1KSO:** Club. **OK1KTW:** Club. **OK1KUR:** OK1AET, 1AYE, 3CLD, 3CLF, 3CWG. **OK1KYS:** Club. **OK2KMR:** OK2BQ2, 2SSS, 2SSA. **OK2KD:** OK2BDI, Duidolf. **OK2KPS:** Club. **OK3KAP:** OK3CWU, OK3CGI. **OK3KTD:** OK3CES, 3TCV, 3TBA. **OK3RKA:** OK3TAM, 3TDP, 3COX, 3-26 01B. **OK3VSZ:** OK3ZAF, 2FM, PQ, FON, EK, AS. **OK5TLG/p:** OK1DFW, FCW, MMW, RF6F: UB5EC, UB5MCD, UB5MCD, UB5MDC, UB5-059-5. **SK2GJ:** SM2EKQ, SM2FJG, SM2BFH, SM2ICQ, SM2DZU. **SK7CC:** SM7GNT, SM7IDF, **SP1PEA:** SP1CU, SP1ETC, SP1PTT: SP1HXC, SP1CNV. **SP2FFJ:** SP2FAP, SP2ASJ, SP2HLO. **SP3KEY:** SP3HXH, SP3ASN. **SP3PA/SP3FLR & others:** SP2ZHBZ: SP2HJL, SP2PQT, SP2PHY, SP5KJP: SP5JAA, SP5DDJ, SP5YCC. **SP5PWK:** SP5SIP, SP5DOX, SP5AWV, SP5AUC, SP5TT, Sottota, SP5DER. **SP6KZW:** SP6BNR, SP6CQO, SP0097 WR. **SP6PAZ:** SP5HEK, SP6DVP. **SP7KTE:** Club. **SP9KBY:** SP6GRM, SP9BAC. **UB5WF & UB5WE:** UB5WCW. **DOLZHENKOV:** ONISCHENO, TIMOFEEV. **UK1NAD:** UA1NAY. **UA1NBF:** UN-088-333. **UK1TAR:** UA1TAC, UA9-090-117, BELOV. **UK1ZAM:** UA1ZAU, UA1-143-115, UA1-143-144. **UK2AAB:** KOSAREV, PIOSYAN, ZINKEVICH. **UK2AAP:** BILCHENKO, HUDAKOV, TROCEVSKY. **UK2AAAR:** ANTSIPEROWICH, DIGILEWICH, KARAJCHENCEW. **UK2AAX:** UCZDS, UCZ-009-522, UC2-009-523. **UK2ABA:** UC2AAP, UC2AFE, UC2-009-499. **UK2ABC:** UA2FCZ, UC2-009-478, UC2-009-479. **UK2BAG:** UP2BAA, UP2BAD, UP2BAE, UP2BCG, UP2BGN, UP2BD, UP2BDT. **UP2BAT:** UP2-038-628, UP2-038-898. **UK2BCC:** UP2BDW, UP2-038-346. **UK2GKW:** UQ2GFM, UQ2ON, UQ2-037-83, UQ2-037-1035. **UK2OAA:** GORDYENKO, KOROBUSCHENKO, MELNIKOV. **UK2PAD:** UP2BCU, UP2PAV, UP2-038-728. **UK2PAP:** UP2BCI, UP2OX, UP2PAX, UP2-038-575. **UK3AAC:** UA3AGX, UA3DPD, UA3-170-276, UL7-03115/UA3. **UK3ABB:** UA3ABZ, UA3AE, UA3AKE, UA3AQK, UA3XAC, UA3-170-885, UA3-170-888, UW3FI. **UK3QBM:** UA3QAI, UA3QCU, UA3QGX, UA3-121-1518. **UK3WAB:** UA3WBC, UA3WZ, UA3XJ, UA3-135-228, UL7-026-199, UV3WT. **UK3XAA:** UA3-127-021, UA4HFG, UA4HQG. **UK3XAM:** UA3-127-370, UA3-127-376, UA3-127-808. **UK3ACA:** BAJKOW, IVANOW, OLSHANSKIJ. **UK4HAP:** UA4HAM, UA4HBP, UA4HCR, UA4HGF, UA4HHL.**



Leif, OZ1LO, sported this fine layout for second high World single operator honors at C5AAO.



Dave, WA2HZR, relaxes after the contest at AP2MC. Let's have an encore, Dave.



The gang at EA8CR (front, from left: EA2OP, OH2BAD, HH6DX, OH2MM; back, from left: EA8CR, EA7TL, EA9EO and OH2KL) show us the brass key they used to rack up the all time high CW mode multi-multi record. Aw, come on fellas!

UK4LAA: UA4LAJ, UA4LAS, UA4LM. **UK4WAA:** FILIPPOV, KUZNETOV, MARKOV, SATTAROV. **UK4WAB:** BARANOV, KRYLOV, PANKOV, SAKERIN. **UK5GEC:** UB5GBW, UB5GDX, UB5GX. **UK5HAB:** UB5HEH, UB5-071-73, UB5-071-330. **UK5JAO:** DOLOTOVSKY, GRIN, KUKSOV, ZYUGRO. **UK5LAK:** UB5LJC, UB5LJW, UB5-077-750. **UK5MAF:** UB5-059-2, UB5-059-200, UB5-059-577. **UK5MAG:** UB5MBP, UB5MDP, UB5-059-11, UT5HP. **UK5MBE:** BALNOV, DYBLJA, KUDELIN, KUSHNR, SKVRCOV. **UK5MBF:** MELNIKOV, PRIJMA, SMOLKA. **UK5MBQ:** CLUB. **UK5MBW:** UB5MFA, UB5MGW, UB5MHT. **UK5MDI:** IZOTENKO, KARPENKO, RYNDIN. **UK5QAC:** UB5QA, UB5QDU, UB5QFS. **UK5UAC:** UB5UFY, UB5-065-1701. **UK5UBB:** UB5-065-271, UB5-065-750, UB5-065-837. **UK5VAA:** ANITSOY, DOBROVOLSKI, LISOVSKY, PETRI. **UK5WBG:** DESIATNIKOV, KISHCHUK, LUPIY, MARKEVICH. **UK6AAA:** CLUB. **UK6FGF:** UF6BN, UF6FDF, UF6-012-301. **UK6QAA:** UF6QAN, UF6-014-68, UF6-014-74. **UK6WAA:** UA6-066-104, UA6-086-147, UA6-086-177. **UK7CAC:** UL7CAZ, UL7CBP. **UK7JAA:** BORYSHNIKOV, KINSFATER, ZAKHAROV. **UK8AAI:** U8ACI, U8BI. **UK8HAA:** BEGUUAEDOV, CEPELEV, STEPANENKO. **UK8JAA:** UJ8JAU, UJ8JCL, UJ8JCQ, UJ8JCR. **UK9ADY:** UA9AAF, UA9AAX, UA9ADH, UA9ADI, UA9AFZ, UA9AJA, UA9WAT. **UK9-QAA:** UA9QAP, UA9QH, UA9-134-172. **UK9SAY:** UA9SAX, UA9SC, UA9SCJ, UA9SCT, UA9SCU, UA9TS. **UK9UAO:** CLUB. **UK9WAA:** CHAMATDINOW, NESTERENKO, SANAGATULLIN. **UK9AAC:** UA0ABB, UA0ACO, UA0ABW, UA0-103-267. **UK9LAK:** SHCHELKUNOV, V, MIZOSHINICHENKO. **UK9ZAB:** UA9ZBF, UA0ZBT, UA0ZBW, UA0ZCG. **VE1AI & VE1AJP:** VE1MX, VE3OCU: VE2DZE, VE3KKU, VE3EXA, VE3CXL. **VE2GO:** VU2TS, VU2DAS. **W1MX:** K1MK, WA2EYC, WA4TTG. **W2KI & K2PO:** WB2OOG. **W2MO:** WA2LWT, WA2LXU, WA2QIC, WA2YLA. **WB2SST & WA2HGM:** W2UI & N3KR. **W2YV & N2NT:** W3BGN & K3OX, N3BB. **W3EVW & 2M NET:** W3GG & N3AM. WB3DSX, WB3FGR. **W3GNQ & 2M NET:** W3NX & W3HB. **W3N & N3AMK:** W3UO & 2M NET. **W3YFV & WB3AOP:** W4DM & 2M NET W4EI & WB4DBK. **WB4RUA & WB4SPB:** WA4RVC & K4IIW. **W5AC:** K5GN, WB5YOT. **W6BIP & W6ADJI:** W6UA & W6UM. **W9LT & K9UWA:** W9DSU, W9FC. **WB7FFF & WB7EEH:** WH2AAF & WB8SSE. **Y03KWF:** Capraru, Grădescu. **Y06KNL:** Club. **Y06KNN:** YO6AW, 6XU. **Y08KG8:** Club. **Y08KGV:** YO8AMT, YO8AJG. **YU3EY:** YU3DM, 3EY, 3FK, 3TBW, 3TVI. **ZL2WB:** ZL2BCW, ZL2AKW, ZL2CD, ZL2OM, ZL2ARN, ZL2AYZ. **4UIUN:** WA2CBB, W2AGW, W2ZZ, W2YY, W2TD, W2GM, W2RS, K5VNJ. **W6QL/6Y5:** W6QL, W6KG.

U9A9ACZ, U9AAGR, U9A9IS, UV9FN, UW9BY, HB9ZE & HB9ALU, HB9BLO, HK9COP: K3MBF, N3AD, N3ED, N3RD, W3MA, WA3LRO. **JA1YFG:** JE1PYM, JG1CFO, JG1EED, JG1QNV, JG1SYJ, JI1RCB, JJ1EFG, JE3GPG, JH1CQQ, JA0LXZ. **JA1YHA:** JG1BQD, JH1LGZ, JA5WIO/1, Ja7UES, JA9GAE. **JA1YXP:** JF1VVR, JI1HGD, JA4QNJ, JA4XPT, JH4KAN, JH4OWG, JA5IEP, JR6NJD, JH7JPQ, JA8MRV, JA8RWM, JA0XUF. **JA1ZLO:** JE1JJ, JR1ANA, JR1FIG, JR1SWB, JH2CKX, JH2LZR, JH4EBN, JH6HDL, JA9FUU. **JF1YPF:** JE1QDQ, JH1OGC, JH1MTS, JH1RDI, JR1NPH, JH1YDT: JA1EPK, JE1OMV, JF1EAL, JF1EPK, JF1ODO, JH1GNU, JR1AOO, JR1FNR, JA0VSH. **JH1ZLA:** JA1KSO, JE1GWP, JE1OMO, JF1BUI, JH1DTC, JH1OCO, JI1HXR, JI1BMB, JR1JFO, JH2IRH, JA7AKQ, JA2YEF: JE2ATB, JE2LDO, JF2GNY, JH2TBS, JH2VOR, JR2LDM, JR2TPD, JR2TWA, JA2VDA. **JA3YBF:** JE3MCC, JE3OPD, JE3PED, JF3ELY, JH3KIL, JH3NFZ, JR3AJZ, JR3UPO, JR3VSW, JH4CES, JH4DHX, JH6UBZ, JH6FQP. **JA3YKC:** JR2SQU, JA3ODC, JA3REU, JA3UPK, JA3WJJ, JE3KKC, JE3MXQ, JF3KJJ, JF3SFP, JH3AIU, JH3GLP, JH3JR, JH3KQW, JH3PKS, JH3PRF, JH3VJT, JH3VOT, JR3AFH, JR3KEG, JR3KIN, JR3RIU, JR3WLK, JH3XGK, JH4ETH, JA5GZB, JA5STDH, JA9UDU. **JA4YQO:** JA2SCJ, JA4HXC, JA4QVM, JA4QQA, JA4GYV, JA5POE, JH6CGU, JH6KKD. **JA7YAA:** JG1IGW, JG1UJD, JA7KPK, JA7WBW, JH7AEF, JH7LIS, JH7OSI, JH7SFY, JH7WTC, JR7DQN. **JA9YBA:** CLUB STN. **JA9YAN:** CLUB STN. K3RL & AA3B, K3FD, K3OA, W3AA, W3BL, K3WW & K3VA, K3VW, K3WJV, W3GRW, 9Y4VU. **K5RC & K5GA:** K5LZO, K5TU, K5WA, K5ZD, KA5CHW, N5AM, N5JJ, W5VQ, W5VAH. **K8LX & K8GM:** K8MD, N8EA, W8WA, W8KPL, W8ZDT. **K0RF & K0GU:** N0RR, W0CP, W0UA, W0UN, W0ZV, W0D0DSU. **N2AA & N1XX:** W1PM, K2BQ, K2GL, K2NG, K2SS, K2TT, K2UR, WB2SFB, WB2VYA. **N4WW & AA4NA:** KB4DU, W4EF, N4GG, N4RJ, N4SA, N4ZL, K0OO, N6ND & N6KA, N6RM, WB6HGJ, W7KHN. **OH1AA:** OH1HU, OH1MD, OH1NH, OH1NK, OH1OG, OH1RM, OH1TV, OH2FS, OH3ZE, OYGFRA: OY2H, OY2J, OY3H, OY4R, OY5Q, OY5NS, OY7K. **SK2KW:** SM2CEW, SM2CPF, SM2DGU, SM2DLZ, SM2DMB, SM2DMU, SM2DQS, SM2EKM, SM2EPR, SM2GMG, SM2GMZ, SM2HAK, SM2HTF, SM2HQZ, SK5AJ: CX1AAC, SM5AD, SM5AYY, SM5BNZ, SM5CAK, SM5OBN, SM5CEU, SM5CNQ, SM5DPS, SM5HPX, SM5GLC. **UFGA:** UP2BBT, UP2BCR, UP2BDF, UP2BEG, UP2BFL, UP2NK, UP2OO, UP2OU, UP2PBW, UP2OZB, 1541. **UK2BBB:** UP2BAS, UP2BAW, UP2PX, UP2MB, UP2-088-517, UP2-038-727. **UK4WAR:** UA4WPX, UA4WAM, J. Fomin, A. Kuznetsov, V. Mogunov, T. Ohotnikov, T. Yamilov, **UK5IBB:** UB5-073-313, UB5-073-433, UB5-073-209, UB5-073-2887. **UK6LAZ:** UB5-073-420, UB5-060-901, UA4-156-366, UA6-101-152. **UK6LEZ:** J. Gamzelev, S. Kiblitsky, W. Indienko, V. Chermensky. **WIRR & W1KM:** W2PV & K1AR, K1DG, K1EA, K1RA, K2AV, N2FB, WB2ODP, AA4KB, K9ES. **W3FA & K3ZJ:** W3ABC, W3XY, WA3KCY, WA3ZAS, N8II. **W3MM & K1OME:** K1PT, K3GM, K3OO, WA3UYD. **W3TV & W3AOH:** W3VV. **W4BVV & K2BA:** K3KU, K3NPV, W3IUU, W3Z2, WA3AMH, W4BQF. **YU1BCD:** YU1FD, YU1NQW, YU1NZV, YU1OCV, YU1ODU, YU1ODS, YU1OQI, YU1OQZ, YU1PCF, YU1QBC. **4U1ITU:** G3ZEM, SM0CCE.

STATION OPERATORS

Multi-Operator Multi-Transmitter

EA8CR & EA2OP: EA7ALG, EA7TL, EA9EO, OH2BAD, OH2KI/OH3XZ, OH2MM, OH6DX. **EX9A:** RA9AIL, UW3BO, UK6APA, UL7LAY, UL7LEZ, UA9AEN, UA9AN,

TOP SCORES

WORLD		USA	
Single-Op	Single-Op	All Band	All Band
CT3BZ	5,135,104	W3RJ	2,186,948
KP4RF	4,908,186	W3LPL	1,837,230
C5AAO	4,874,559	W1ZM	1,804,960
PJ9CG	4,436,556	N2LT	1,801,314
ZS6WW	2,864,224	W7KW	1,660,500
W3RJ	2,186,948	K9DX	1,657,978
ZL1ADI	2,063,712	K6NA	1,587,087
XE2MX	2,048,010	N9MM	1,580,049
UV9AX	1,966,670	N4RR	1,405,812
UA1DZ	1,935,315	W2REH	1,390,311

Single-Op		Single-Op	
Single Band		Single Band	
28 MHz		28 MHz	
FY7BC	581,117	K8MFO	151,440
ZE1BL	376,737	W1LK	123,384
4X4UH	308,485	K5TJ	120,087
HIBMOG	298,540	K4BAI	114,798
ZE8JN	255,162	W8WPC	107,378
G3MXJ	241,040	K1SA	100,985

21 MHz		21 MHz	
LU8DQ	1,011,220	N6CW	302,211
KH6XX	816,102	K4RV	277,851
ST0RK	499,296	N5CR	246,384
YU3ZV	493,816	K8CX	242,892
KH6GMP	395,458	N6TV	223,808
VK4QK	394,026	N1GL	189,924

14 MHz		14 MHz	
KV4FZ	860,580	W6VPH	468,312
W6VPH	468,312	N4EA	312,611
EL2AV	402,112	K9AM	292,680
YU2CDS	387,933	K8ZH	266,476
YU1ALZ	313,875	K3FN	249,250
UA4PNW	312,816	W2SUA	235,752

7 MHz		7 MHz	
AH6Z	387,750	W5UN	139,050
I2FGP	172,809	N6AW	121,140
ZL1AMO	166,282	W4MJ	100,686
JAI2INO	161,160	W5WMU	97,929
UQ2GCN	157,635	K6ZM	92,304
YU4OY	156,216	K7UR	83,076

3.5 MHz		3.5 MHz	
UI8LAG	110,552	K5NU	19,240
UP2NV	107,250	N7RM	13,392
9K2EX	95,760	WB3AVN	11,772
YU1ACS	86,009	N7DF	11,427
UQ2GDW	82,863	K1MM	8,120
OK1DOK	70,956	W5VX	7,301

1.8 MHz		1.8 MHz	
VR3AH	20,310	K1PBW	6,006
YV1OB	12,798	K6SE	4,437
YU3EF	8,294	W8LRL	3,876
DJ8WL	8,288	W1BB/1	2,716
OK1ATP	7,890	N4PN	2,139
YU2OB	6,296	K5UR	1,296

Multi-Op		Multi-Op	
Single Xmtr		Single Xmtr	
RF6F	5,866,744	N3RS	2,887,920
HH2CQ	5,256,944	K1PR	2,371,600
N3RS	2,887,920	N4AR	2,323,280
YU3EY	2,591,979	K5JA	2,246,264
LX0RL	2,389,965	W3BGN	2,192,400
K1PR	2,371,600	K4VX	1,985,277

Multi-Op		Multi-Op	
Multi Xmtr		Multi Xmtr	
EA8CR	17,734,970	N2AA	5,073,642
EX9A	8,721,019	W4BV	4,914,408
HK0COP	8,141,975	W2PV	4,737,378
UF6A	8,101,088	K3WW	4,572,884
N2AA	5,073,642	K5RC	4,431,636
W4BV	4,914,408	K0RF	3,548,934

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

C.W. RESULTS

SINGLE OPERATOR

NORTH AMERICA

UNITED STATES

W2AO	"	154,105	455	34	85	K40AQ	"	589	15	8	11
N2HI	"	15,624	117	18	38	WD4BHM	"	36	42	3	3
W2RR	"	6,556	56	18	26	K4BAI	28	114,798	364	29	85
	(Op. WA2AOG)					AA4RR		51,988	225	23	59
W2ER	7	69,258	266	24	73	W4YAZF	"	26,880	122	22	57
K2IGW	"	61,540	275	24	61	W4OGG	"	11,220	81	23	32
AC2U	"	19,812	103	22	56	AA4FF	"	7,300	58	19	31
						K4RV	21	277,851	733	34	97
						AA4EA	14	312,611	803	36	103
						A84H	"	186,473	576	32	87
						W3LPL	"	1,837,230	1359	129	341
						K3NA	"	927,043	927	199	268
						W3GRF	"	856	116	247	K4RZ
						871,448	"	787	117	271	W04KUK
						849,758	"	807	113	264	WB4WRM
						620,704	"	659	96	230	N4HF
						611,375	"	657	101	234	WA4SGF/
						630,412	"	526	76	169	mobile
						356,445	"	485	88	182	K5MA
						331,390	"	397	103	207	K5TM
						326,400	"	453	86	169	N5AW
						297,474	"	408	85	173	N5PM
						404,547	"	486	95	204	K5GO
						365,014	"	483	87	191	K5OA
						360,412	"	526	76	169	K5JB
						356,445	"	485	88	182	K5MA
						331,390	"	397	103	207	K5TM
						326,400	"	453	86	169	N5AW
						297,474	"	408	85	173	N5PM
						251,808	"	367	87	171	W5XX
						248,832	"	379	81	162	K5KG
						227,912	"	334	77	171	K5LP
						227,128	"	354	77	155	W5JC
						224,547	"	307	111	158	W5OB
						214,633	"	396	71	134	A5FK
						212,164	"	354	86	150	W5LW
						175,376	"	284	77	149	W5E
						151,704	"	314	54	114	W50J
						133,760	"	273	76	100	K5DB
						126,876	"	236	84	134	WA5IGD
						124,656	"	265	69	127	N5HB
						117,450	"	205	79	146	WB5UWF
						106,620	"	187	72	123	K5NA
						100,620	"	125	52	78	N5FW
						94,090	"	166	50	95	W5RR
						14,504	"	58	44	54	W5ZPA
						20,357	"	88	35	58	K5BDX
						14,457	"	74	31	36	W5ABF
						10,187	"	68	22	39	K5EE
						7,344	"	52	24	27	K5LM
						5,994	"	54	11	26	AG5N
						5,248	"	46	17	24	W5EIJ
						4,840	"	41	17	27	N5UA
						4,094	"	34	22	24	W5TEM
						3,485	"	37	17	24	A5AD
						2,646	"	27	17	25	K5TJ
						1,972	"	26	18	18	W5KLA
						1,972	"	26	18	18	W5VX
						1,954	"	10	16	9	W5VX
						1,924	"	52	78	95	W5KJ
						1,824	"	45	37	54	W5JC
						1,811	"	88	118	38	W5KJ
						1,780	"	120	52	83	W5KJ
						1,764	"	103	20	39	W5KJ

N6VR	..	15,856	99	19	37	W7MB	14	203,286	689	31	71	WD9INS	..	25,410	106	47	58	NDX	14	161,008	504	34	82	DOMINICAN REPUBLIC
W6YMH	..	13,846	120	17	26	W7OF	..	23,664	98	28	59	K9QXY	..	16,560	75	31	49	WZZ	..	114,126	362	32	80	H18M0G 28 298,540 1394 24 68
N6CW	21	302,211	852	32	91	K7PM	..	12,076	120	20	18	NSRC	..	15,770	78	37	46	WSR	3.5	2,175	35	11	18	H18LC 14 53,502 319 25 49
N6TV	..	223,808	766	30	74	W7GVM	..	10,856	86	20	28	W9UWM	..	15,224	77	41	57	WVX	..	286	10	7	9	GRENADA 28 36,355 294 15 40 (Op. K7MKS)
K6QO	..	83,296	393	25	51	K7UR	7	83,076	342	25	61	W9TNZ	..	14,350	64	34	48	ALASKA	J3ABF	..	..	..	..	GUADELOUPE A 551,544 1569 55 113
N6HJ	..	20	2	2	2	N7SW	..	41,554	193	27	52	W9IX	..	7,360	103	17	29	..	..	..	..	..	..	GUATEMALA A 852,306 2159 73 109 (Op. WB6DSV)
W6VPH	14	468,312	1105	36	116	N7RM	3.5	13,392	138	15	21	W9ZA	28	83,754	313	27	72	KL7RA	A	903,312	1722	76	140	..
W6XI	..	23,217	118	22	49	N7DF	..	11,427	141	13	26	N9D	..	55,298	228	24	62	KL7IRT	..	144,330	658	31	54	FAAHY/ FG
N6AW	7	121,140	462	30	60	W7XZ	1.8	1,180	32	10	10	W9RE	..	53,088	231	25	59	KL7AF	..	126,654	468	56	58	..
K6ZM	..	92,304	442	25	47	K7IDX/7	..	221	17	6	7	K9DAF	..	45,484	196	22	61	KL7DVE	..	100,978	631	32	26	..
N6RA	..	53,110	201	29	65	..	..	..	..	..	..	W9TID	..	42,484	181	24	62	K17EW	14	6,300	69	14	21	..
K6RU	..	41,726	235	25	37	..	..	..	..	..	..	W9YYG	..	38,880	182	24	56	BERMUDA	TG7AA	..	..	..	..	HONDURAS
N6OC	3.5	3,154	41	16	22	N8JW	A	759,759	766	120	243	W9POH	..	30,856	143	24	52	WA1RFM	3.5	52,687	540	14	33	CANADA HR1AT 14 33,744 338 17 31
K6SE	1.8	4,437	162	13	16	K8GL	..	498,454	565	103	223	K9ARZ	..	7,203	59	18	31	..	..	..	..	..	..	MEXICO A 2,048,010 3220 107 178 (Op. N6ZZ)
W7KW	A	1,660,500	1603	123	246	W8BTLNO	..	320,212	415	96	181	K9R	21	180,776	528	31	87	..	..	..	..	..	..	MONTserrat A 685,392 1380 64 154 (Op. VE3MU)
N7XX	..	1,112,228	1321	110	182	K8H8V	..	169,312	312	73	135	K9CLO	..	149,034	458	35	83	V01K0	A	154,880	650	34	76	..
..	(Op. WA1KKM)	..	..	..	..	W8W0I	..	126,484	230	74	132	V01FB	28	40,068	276	18	45	V01HP	7	72,996	490	16	50	XE2MX
W7IR	..	1,029,105	950	133	252	W8G0C	..	64,064	163	63	91	W9GIL	..	86,944	297	32	77	VO2CW	A	28,150	282	24	26	..
K7RI	..	720,508	920	106	178	W8YGR	..	32,890	98	48	82	W9WJ	..	60,900	209	33	67	VE1AH	A	827,310	1056	93	234	XE1VV .. 839,965 1648 55 148
..	(Op. N7DX)	..	..	..	..	K6MR	..	29,792	115	43	55	W9BW	..	40,592	176	28	58	VE1ANU	..	90157	488	36	53	..
W7NI	..	611,593	774	111	172	A8F0	..	11,592	72	29	43	K9KU	7	80,704	289	27	77	VE1EP	..	1,512	24	10	11	..
K7ZA	..	424,593	610	93	154	W8K+P	..	6,600	55	21	29	K9RS	..	35,328	154	25	67	VE1TG	28	100,620	579	20	58	VP2MU
WA7ZLC	..	319,701	64	74	109	W8BMBV	..	3,760	39	19	21	K9FN	..	31,255	137	28	67	VE1UNB	..	30,745	260	18	37	..
A7A7	..	258,312	348	106	176	W8EAO	..	2,345	29	20	15	K9CJ	..	23,147	107	21	58	VE1BN	21	2,756	42	6	10	..
W7IU	..	243,294	348	103	155	W8B8KAC	..	1,035	15	8	15	K9BN	..	22,599	111	26	55	VE2AYU	A	493,183	840	85	172	..
W7ZR	..	216,535	510	69	86	K8MF0	28	151,440	445	36	90	K9SM	..	5,762	54	16	27	WV2WA	..	63,640	225	64	108	HP1AC A 41,666 230 29 54
K7NF	..	207,493	514	65	78	W8WPC	..	107,378	366	26	80	W90C	..	4,200	38	17	25	VE2DUN	..	1,562	28	6	16	..
K7NO	..	195,978	415	75	103	..	(Op. N9AG1)	..	..	..	..	W9LF	3.5	12,810	88	19	42	VE3AKG	A	181,460	1723	91	200	PUERTO RICO A 4,908,186 3707 135 379 (Op. N6CJ)
K7LAY	..	154,512	364	59	89	W8WVU	..	16,897	103	19	42	K9K	..	6,678	69	16	26	VE3DMV	..	314,650	635	74	143	..
W7NP	..	134,136	346	58	80	W8BRR	..	4,816	45	14	29	W9VA	..	4,280	46	15	25	CH3GCO	..	201,888	635	56	88	ST. LUCIA
N7CW	..	124,047	261	65	114	AC8P	..	784	18	8	8	W9CG	1.8	589	21	8	11	VE3JCV	..	59,400	265	45	63	..
W7ZMD	..	114,912	317	61	83	W8BDKJ	..	378	13	7	7	K9BGL	..	448	13	7	13	VE3EDC	..	50,402	143	63	95	VP2LGR A 1,063,012 1646 92 192 (Op. N5UR)
W7JYW	..	105,750	275	61	89	K8CX	21	242,892	711	30	87	W9C	..	12,750	358	28	72	K9Z	A	856,680	864	118	245	..
W7QS	..	102,204	243	54	99	W8UA	..	103,200	358	28	72	K9Z	..	250	500	Hz	for YAESU	VE3KZ	28	162,946	664	27	76	..
K7UU	..	89,838	268	53	73	W8DSO	..	35,076	164	24	50	W9VU	..	256,688	388	84	160	W4UY	..	1,314,650	635	74	143	KP4RF
N7AM	..	71,568	225	52	60	K9Z	14	266,476	763	32	92	W9IB	..	219,145	395	77	128	W4UY	..	1,314,650	635	74	143	..
N7ES	..	58,240	247	44	47	..	(Op. K8WW)	..	..	..	..	W9IB	..	196,560	304	83	157	VE3MV	21	137,856	586	28	68	..
N7CM	..	47,422	141	54	77	W8TA	..	157,780	487	35	80	W9JU	..	178,746	359	74	112	VE3JTO	14	16,065	164	16	29	..
K7WA	..	40,144	150	52	52	W8TWA	..	87,615	322	30	69	ABX	..	176,177	312	80	143	VE3FAC	7	4,082	153	6	5	..
W7KKR	..	19,184	96	40	48	W8UD	..	55,278	229	28	55	W9QFB	..	135,718	277	80	119	VE3JNO	1.8	700	73	3	2	U.S. VIRGIN ISL.
W7IIT	..	12,711	98	28	29	W8UVZ	7	58,212	221	26	72	ABW	..	104,904	212	21	72	W4SW	A	100,128	470	44	52	KV4FZ 14 860,580 2482 35 105
W7GZ	..	11,741	68	25	34	K8CW	..	38,916	156	24	68	W9ZTN	..	97,041	206	64	107	K9BRO	7	44,336	345	23	45	..
W7SIR	..	10,620	75	30	29	W8LRL	1.8	3,876	39	14	24	K9SYV	..	84,729	177	73	108	VE6AYI	A	333,512	1145	71	117	AFRICA
K7PC	..	9,614	93	19	19	K9DX	A	1,657,978	1341	132	305	AEJ K	..	84,480	189	68	108	VE6EMP	..	131,401	569	41	60	CANARY IS. A 721,468 1154 56 36
W7JKA	..	9,550	70	22	28	N9MM	..	1,580,049	1328	127	292	W9GOB	..	82,425	199	61	96	CG6KW	14	221,760	950	28	62	..
W7MCU	..	9,435	68	24	27	W90A	..	565,278	648	108	205	K9RWL	..	65,125	188	46	79	CG6KW	14	365,876	1051	68	78	..
W7LCG	..	3,976	49	13	15	W9RWB	..	387,092	504	101	183	W9QYF	..	57,970	145	57	98	W7CML	21	176,606	1037	27	46	SU1IM
WD6ETH/	..	2,720	21	19	15	N9NS	..	306,544	432	93	179	K9BRO	..	45,018	136	52	70	W7CML	21	221,760	950	28	62	..
K7WQD	..	2,535	25	17	22	W9QDQ	..	242,608	372	85	151	W9QZ	..	23,562	90	44	58	W7CML	21	176,606	1037	27	46	..
N7MW	28	62,625	319	25	50	W9DQW	..	208,505	347	73	150	K9FPC	..	18,336	77	44	52	W7BBO	1.8	246	19	3	3	..
N7TU	..	50,778	290	26	37	K9IL	..	92,316	214	59	98	W9MJN	..	16,046	83	32	39	K25OJ	28	39,900	300	16	34	CANAL ZONE TR8RG
N7ZZ	21	135,129	505	30	63	K9BK	..	67,044	185	51	97	K9BJ	..	3,939	37	16	23	W9YK	28	..	..	..	..
N7RO	..	75,312	380	24	48	K9AB	..	66,633	189	61	106	K9BCW	..	888	24	13	11	W9YK	28	28,148	177	24	38	DOMINICA C5AAO
W7EJ	..	67,900	342	26	44	W9JUV	..	57																

LIBERIA		JA2IU		31,293		208		24		33		JA1AVI		4,950		55		12		18		UJJ&JAS		14		269,445		947		33		82		OK1FAR		28		88,700		367		26		74													
EL2AV	14	402,112	1305	29	74	JA4VAD		30,192		173		27		41		JF1WPB		4,256		52		15		17		UJJ&JAS		14		48,230		321		24		41		OK1ATT		28		39,278		195		24		58									
* MADIERAS ISL.	A	5,135,104	4266	105	311	JA1CMD		28,380		185		27		33		JH0JVZ		980		26		8		6		UJJ&JAS		7		39,032		337		18		38		OK3TC		28		11,634		97		14		23									
CT3BZ	A	255,162	993	25	61	JA1HS		27,115		190		24		31		JA3NMV		931		20		8		11		UJJ&JAS		A		160,012		661		29		80		OK3CO		28		9,956		95		15		23									
						JA2AJA		25,300		195		22		28		JA0GZ		462		15		8		5		UJJ&JAS		7.0		161,660		667		27		58		OK3CFP		28		7,622		94		15		22									
						JA1EM		19,656		171		19		23		JH6NAC/1		19,096		341		23		JRTAQ		108,472		429		31		60		UH8DI		21		21,600		211		15		35		OK2BLG		28		7,520		63		16		31	
ZE3JO	A	163,366	538	25	73	JH6NAC/1		14,050		125		21		29		JA2HR		53,940		351		26		34		UJJ&JAS		A		160,012		661		29		80		OK2PDQ		28		756		21		7		11									
ZE7BL	28	376,737	1414	25	64	JA7ARW		12,878		112		22		25		JA3BKC		32,550		176		24		46		UJJ&JAS		3.5		110,552		606		16		57		OK3TB		28		703		15		7		12									
ZE8JN	"	255,162	993	25	61	JH6WIN		11,070		103		19		26		JA2LA		12,878		104		17		30		UJJ&JAS		A		160,012		661		29		80		OK1VE		28		600		13		8		12									
						JR3COZ		7,020		94		14		12		JA1JMH		6,804		72		17		19		UJJ&JAS		3.5		38,080		242		22		42		OK2PK		28		8,262		62		20		34									
ZS6WW	A	2,864,224	3038	105	211	JR2MLP		6,600		70		18		26		JA9CWJ		4,560		59		14		16		UJJ&JAS		(Opn. JA0JCJ)		10,994		21		21,600		211		15		35		OK2BLG		28		7,520		63		16		31					
ZS2RM	"	222,458	513	51	96	JA1OP		5,344		66		14		18		JA1ERW		5,270		60		15		19		UJJ&JAS		A		160,012		661		29		80		OK2BBJ		28		756		21		7		11									
ZS6ME	28	136,004	632	21	51	JA6WW		4,653		66		13		20		JA6AUH		31,941		202		22		41		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
ZS1HF	"	87360	230	18	52	JA6PL		3,864		50		13		15		JA1AT		10,994		92		19		27		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						JA7TUU		3,375		47		14		13		JA2AIR		12,083		119		16		27		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						JA1AAAT		2,030		28		14		15		JA1DUH		10,994		92		19		27		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
SOUTHERN SUDAN	STORK	21	499,296	1496	31	81	JA3NTS		1,904		33		13		15		JA1TAPZ		10,620		105		17		28		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76								
						(Opn. DL7AV)		1,404		35		12		15		JA1ITX		10,387		100		19		28		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						JA2VUP		21		273,312		917		33		71		JA1ITX		10,387		100		19		28		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76							
						JA2NDQ		252,555		780		34		79		JA2DCN		12,083		119		16		27		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						JG1EQ		203,514		657		34		73		JA2HFB		10,994		95		6		13		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						JE1CKA		195,910		631		33		71		JA1LKH		10,994		95		6		13		UJJ&JAS		1.8		135		6		4		5		DF3PUW/1		21		112,466		425		30		76									
VU2JN	28	16,176	193	12	36	(Opn. JA0CUV/1)		191,808		683		34		62		JA2AXB		191,808		683		34		62		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						IRAN		183,172		588		30		62		JA2ANA		183,172		588		30		62		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
EP2IA	A	1,537,820	1760	90	250	JA2ANL		180,875		636		33		66		JA1TAV		151,536		597		30		58		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						ISRAEL		146,734		540		34		62		JA1CJF		146,734		540		34		62		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
424TA	A	145,383	385	37	92	JA2BNZ		142,975		548		34		62		JA1CSB		142,975		548		34		62		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
4X4UH	28	308,485	1257	29	74	JA6RSJC		124,488		558		25		53		JA1FCDM		124,488		558		25		53		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
424WE	21	92,072	410	22	46	JA6DOG		120,690		521		30		51		JA1FCDM		120,690		521		30		51		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						JAPAN		115,584		463		30		56		JA1FSL		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
						JA1FSL		115,584		463		30		56		JA2BJC		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1NC	21	139,302	362	80	94	JA2BJC		115,584		463		30		56		JA2BJC		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1SEK	"	159,194	419	63	74	JA2BSK		115,584		463		30		56		JA2BSK		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1SW	"	132,673	305	83	98	JA2KPM		115,584		463		30		56		JA2KPM		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1TC	"	131,054	317	75	79	JA2TUF		115,584		463		30		56		JA2TUF		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1UDH	"	131,054	317	75	79	JA2TUF		115,584		463		30		56		JA2TUF		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1UDH	"	131,054	317	75	79	JA1TUF		115,584		463		30		56		JA1TUF		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1UDH	"	131,054	317	75	79	JA1TUF		115,584		463		30		56		JA1TUF		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1UDH	"	131,054	317	75	79	JA1TUF		115,584		463		30		56		JA1TUF		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1UDH	"	131,054	317	75	79	JA1TUF		115,584		463		30		56		JA1TUF		115,584		463		30		56		UJJ&JAS		A		54,366		304		36		87		OK1MVN		21		112,466		425		30		76									
JF1UDH	"	131,054	317	75</																																																					

ENGLAND		OH3XX	"	16,260	144	17	43	DKBAX	"	42,126	177	41	78	DM3EA	"	24,648	100	36	68	GU4CHY	28	24,206	286	12	26				
G3ESF	A	322,308	734	69	183	OH1EG	"	6,400	113	10	30	DJ3YU	"	39,494	162	36	52	DM30ML	"	11,970	87	25	45	GU4EON	21	146,939	804	23	66
G3XTT		264,222	570	62	171	OH2BCD	"	4,270	87	13	22	DK8KC	"	36,540	175	38	78	DM4ZCO	"	11,832	65	28	40						
G3NKS		105,700	352	52	123	OH2BSV	"	2,520	52	9	15	DJ2YE	"	36,414	156	38	88	DM4ZBK	"	11,174	79	24	50	HUNGARY					
G2AJB		92,178	354	44	118	OH1LU	"	1,458	32	11	16	DF3QN	"	23,230	116	39	62	DM3YWC	"	9,728	119	20	44	HA2KMB	A	197,290	638	53	128
G5JKY		91,000	336	41	84	OH5RZ	"	391	15	7	10	DF4KA	"	18,419	78	42	71	DM5BN	"	6,555	90	17	40	HA7SU		62,622	244	43	109
G5CRF		42,834	203	39	82	OH2SR	7	73,760	721	20	60	DL1YA	"	12,540	89	27	49	DM2CMA	"	5,454	84	14	40	HA7SQ		62,530	267	42	88
G4CHH		41,132	201	40	73	OH8PF	"	35,072	465	12	52	DK4HD	"	7,722	66	22	32	DM2A2L	"	4,128	42	20	28	HA5KF		61,208	252	49	89
G6NK		37,114	227	27	50	OH6UC	"	1,240	31	8	23	DL1NE	"	6,752	60	23	23	DM2F1H	"	3,950	50	6	19	HA5DJ		51,471	249	40	89
G8DI		25,641	163	30	69	OH2BCI	3,5	43,724	547	12	56	DF2HL	"	3,712	38	24	34	DM2BWA	"	3,384	38	21	26	HA5LZ		49,896	176	49	113
G3MWZ		7,056	71	17	31	OH1TN	"	31,093	454	10	49	DL1KN	"	546	14	7	6	DM2CLM	"	2,860	44	11	11	HA1ZD		34,815	193	32	62
G3MXJ	28	241,040	843	30	85	OH6TI	"	24,128	317	9	49	DL1BU	28	207,959	972	26	75	DM2VMJ	"	2,432	24	18	20	HA1ZG		29,193	184	34	77
G3FXB	21	258,980	888	32	83	OH62AB	"	11,374	200	6	41	DJ6RX	"	174,924	648	30	83	DM3TNA	"	1,598	27	14	20	HA7PQ		23,544	139	31	77
G3TXF		174,384	665	29	83	OH280	1,8	1,408	60	5	17	DK8NG	"	70,196	284	22	60	DM3ZUE	"	1,344	39	12	16	HA7UJ		12,792	150	20	62
G3MZV		81,445	450	22	69	OH3EY	"	406	27	3	11	DJ7RJ	"	60,960	262	21	75	DM4WFE	"	1,296	29	10	17	HA6NP		6,669	48	26	31
G4FAM	7	95,744	767	18	70							DK5VO	"	23,256	160	17	40	DM3VZN	"	593	33	7	14	HA8MM		4,140	44	10	26
G3XWZ/A	3,5	66,348	475	18	46							DL0VW	"	13,545	107	16	29	DM4GI	"	675	18	11	16	HA8VY	28	26,163	134	25	56
G3YMC	1,8	1,152	70	2	16	F6EID	A	478,272	735	83	199			(Opn. DF3OL)	DM3SBM	28	21,710	132	18	47	HA5NP	21	79,576	438	25	61			
						F8VJ	A	417,480	693	82	163	DL1THA	"	5,474	60	12	22	DM4ZKF		34,992	196	23	49	HA60A		68,386	340	26	56
						F6DDP	"	95,018	302	45	98	DL3ZI	"	4,312	45	18	26	DM3UE	"	31,356	167	25	53	HA4XX		58,563	276	27	54
						F3AT	"	77,216	261	54	98	DJ8UJ	21	238,769	853	31	82	DM2AYH	"	14,355	99	18	37	HA1VE		50,339	285	27	44
						F6DNR	"	56,068	217	44	87	DK8AG	"	109,980	369	27	78	DM4YUL	"	11,508	116	14	28	HA3GA		9,680	95	15	28
						F6HMM	"	95,790	334	31	116	DL1RB	"	44,226	224	22	56	DM4YKK	"	1,843	39	9	10	HA9KLF		9,417	95	15	28
						F6B0B	"	83,235	235	46	133	DK3EJ	"	33,831	216	22	41	DM3XYF	"	34,056	193	23	65	HA8UT		90,189	485	28	71
						F6H7A	"	79,476	217	52	127	DK6EM	28	23,400	198	16	34	DM3XZN	"	26,928	231	18	48	HA1SB		39,270	269	20	57
						F6H7N	"	72,314	211	41	132	DK6XJ	"	10,535	86	14	35	DM3LE	"	22,816	238	15	47	HA5BA		31,126	247	21	58
						F6H2K	"	70,757	231	50	123	FD6YX	"	10,488	106	13	25	DM2FUL	"	14,795	142	15	40	HA4YG		20,473	196	14	45
						F6H5P	"	63,623	427	52	97	FD2V0	"	7,380	88	12	18	DM2CEY	"	14,388	115	18	48	HA4XR		7,905	82	18	33
						F6H2V	"	60,060	193	48	92	FD6KV	14	28,128	275	17	31	DKGEJ	"	13,886	151	14	39	HA8NF/P	7	56,744	518	19	63
						F6H20	"	55,945	205	47	120	FD6KEG	"	3,103	79	12	16	DM3EL	"	12,144	127	18	26	HA3PT		22,097	296	12	47
						F6H201	"	53,664	248	37	92	DL0XX	"	41,408	430	16	48	DM4REE	"	11,336	140	12	40	HA9MK/P		21,417	254	10	49
						F6H202	"	53,664	248	37	92	DL0XX	"	41,408	430	16	48	DM3RGL	"	6,208	87	12	20	HA7PK		4,352	116	5	19
						F6H203	"	19,200	102	32	68	DL1JH	A	1,080,772	1055	106	300	DM2GJ	"	5,418	70	13	30	HA7TQ		384	40	5	19
						F6H204	"	16,878	124	24	63	DL2TI	"	709,462	1005	92	246	DM3GK	"	3,192	54	11	27	HA8UB	3,5	49,640	530	14	59
						F6H205	"	7,448	54	25	31	DK9GW	"	654,012	908	84	249	DM5GG	"	48,108	248	15	61	HA6NL		33,670	433	12	53
						F6H206	28	40,152	211	22	62	DK9GW	"	575,385	1031	72	195	DK8WL	1,8	8,288	73	7	21	HA7UG		26,023	434	9	44
						F6H207	"	24,048	154	21	51	DK10C	"	539,458	1031	78	197	DM2CJA	"	2,340	40	11	19	HA4YO		19,482	360	8	43
						F6H208	"	11,310	105	15	43	DK9CB	"	233,036	549	82	196	DM2BPF	"	18,880	204	13	46	HA6NW		16,800	401	8	32
						F6H209	"	6,776	57	17	39	DL1JF	"	329,450	553	78	197	DM2DMF	"	13,294	247	10	36	HA6NG		9,044	225	6	32
						F6H210	21	285,253	1030	33	76	DL3LU	"	302,290	707	65	150	DM2CDL	"	11,024	124	11	22	HA8DT		7,293	173	6	31
						F6H211	"	233,358	781	31	83	DL6YR	"	229,670	512	71	167	DM2CJU	"	4,340	86	8	27	HA3GO		1,850	69	6	19
						F6H212	"	216,720	720	34	86	DL8YR	"	201,025	543	63	152	DM2CJU	"	4,202	21	4	16	HA5KKO		1,166	55	4	18
						F6H213	"	57,380	291	28	67	DL7BQ	"	162,384	349	69	135	DM4SDA	"	228,872	627	71	173						
						F6H214	"	22,570	177	18	43	DL2HQ	"	147,200	369	58	102	DM2CWB	"	209,100	667	86	119						
						F6H215	"	17,574	175	16	42	DF2RQ	"	140,382	299	56	132	DM3NKF	"	199,752	599	54	149						
						F6H216	"	15,045	159	15	35	DL1CR	"	121,655	400	43	102	DM9AAG	"	191,180	448	61	159						
						F6H217	"	14,734	103	20	33	DK8BL	"	112,608	412	43	101	DM4WFF	"	133,760	612	42	118						
						F6H218	"	12,804	89	19	47	DF4TD	"	91,938	305	51	103	DM4WMJ	"	94,844	197	71	191						
						F6H219	"	12,529	99	19	48	DL7CF	"	74,880	317	43	87	DM3VTL	"	88,708	440	36	118						
						F6H220	"	8,477	90	14	35	DL2JO	"	70,334	194	49	90	DM2FIL	"	70,090	216	50	113						
						F6H221	"	3,393	54	11	28	DL1HD	"	67,640	174	62	128	DM4NJJ	"	51,480	285	28	102						
	</td																												

		WALES																		KALINGRAD																	
IQDYB	..	89,052	416	24	58	SP5ELA	..	6,768	111	9	38	GW3UCB	1.8	1,026	56	3	15	UA3FBM	A	69,146	232	52	102	VK2GW	A	288,456	826	46	73								
16POY	..	63,120	319	23	57	SP2JEM/9	..	4,386	91	9	25	GW3GWX	..	704	46	2	14	UA2DC	..	38,792	281	25	79	VK3AEW	..	32,296	135	34	55								
11GXR	..	50,235	254	7	58	SP6FG/5	..	1,380	63	4	19	YU4VBR	A	361,920	757	74	186	YU4VBR	A	430,514	759	88	234	VK4X4	28	129,704	712	24	38								
159TC	..	40,683	224	20	51	SP5LM	..	1,312	38	6	26	YU2CCJ	..	269,430	637	63	147	YU2CCJ	A	38,864	263	30	82	VK3QI	..	7,448	45	7	8								
14JJC/5	21	226,440	740	34	86	SP5IWA	..	1,272	54	4	20	YU1RM	..	175,602	515	64	162	YU1RM	A	38,864	263	30	82	VK4QK	21	394,026	1306	29	73								
11FOX	..	209,776	741	30	82	SP1GZ	..	533	41	3	10	YU1NGO	..	157,472	367	68	156	YU1NGO	..	21,924	183	37	50	VK3RJ	..	4,825	70	12	13								
14KRI	..	100,161	463	28	65	SP6HRK	..	462	19	5	17	YU1N2W	..	123,966	309	56	138	YU1N2W	..	20,713	257	14	63	VK3MR	14	189,640	719	28	62								
15XR	..	80,901	401	28	63	SP5ELA/5	..	302	12	4	11	YU3T2P	..	7,990	75	18	29	YU3T2P	..	13,013	143	17	60	VK3XB	3.5	5,644	112	7	9								
13FDZ	..	59,100	237	25	75	YU2OM	21	51,975	376	20	55	YU10JT	..	3,036	27	20	24	YU10JT	..	10,047	103	16	35	VK2GW	A	288,456	826	46	73								
15YDI	..	40,446	29C	19	44	YU3ER	28	111,435	387	30	85	YU2FP	21	7,344	80	15	36	YU2FP	21	157,635	1027	22	71	VK3AEW	..	32,296	135	34	55								
11ZEU	..	19,023	162	15	36	YU2CR	..	108,676	401	33	68	YU2GP	14	57,464	331	61	80	YU2GP	14	25,578	183	16	33	VK4X4	28	129,704	712	24	38								
15ZUF	14	102,500	583	30	70	YU2OM	21	51,975	376	20	55	YU2CN	..	16,380	110	22	38	YU2CN	..	21,710	200	20	45	VK4QK	21	394,026	1306	29	73								
10EMV	..	84,870	556	20	62	YU3ROM	..	13,409	94	20	33	YU2GEY	..	205,744	109	28	84	YU2GEY	..	10,047	103	16	35	VK3RJ	..	4,825	70	12	13								
11QJC	..	26,455	204	18	47	YU3ROM	..	10,470	157	2	10	YU2IM	..	10,047	103	16	35	YU2IM	..	10,047	103	16	35	VK3MR	14	189,640	719	28	62								
11ZVF	..	19,166	290	11	26	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3XB	3.5	5,644	112	7	9								
12FCP	7	172,809	1057	23	68	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK2GW	A	288,456	826	46	73								
14AND	..	28,908	315	15	51	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3AEW	..	32,296	135	34	55								
9HICH	28	132,066	546	26	73	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4X4	28	129,704	712	24	38								
MALTA	..	102,500	583	30	70	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4QK	21	394,026	1306	29	73								
NETHERLANDS	..	102,500	583	30	70	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3RJ	..	4,825	70	12	13								
PARTAU	A	497,350	940	79	211	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3MR	14	189,640	719	28	62								
PA9UV	..	166,426	438	56	111	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3XB	3.5	5,644	112	7	9								
PA9NYM/A	..	104,468	390	50	114	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK2GW	A	288,456	826	46	73								
PA9TA	..	49,209	177	42	99	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3AEW	..	32,296	135	34	55								
PA9GT	..	19,312	88	41	56	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4X4	28	129,704	712	24	38								
PA9DIN	..	17,375	109	40	67	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4QK	21	394,026	1306	29	73								
PA9AIC	..	16,647	146	20	73	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3RJ	..	4,825	70	12	13								
PA9YN	..	7,252	59	21	29	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3MR	14	189,640	719	28	62								
PA9LVB	21	7,125	54	19	38	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3XB	3.5	5,644	112	7	9								
P11PT	14	104,104	473	28	76	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK2GW	A	288,456	826	46	73								
PAGRRS	..	10,857	62	26	51	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3AEW	..	32,296	135	34	55								
PA9WRS	3.5	9,891	95	13	50	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4X4	28	129,704	712	24	38								
NORWAY	..	20,424	810	55	151	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4QK	21	394,026	1306	29	73								
YU3ROM	21	44,116	224	24	58	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3RJ	..	4,825	70	12	13								
YU3ROM	21	32,339	216	20	53	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3MR	14	189,640	719	28	62								
YU3ROM	21	108,300	768	26	69	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3XB	3.5	5,644	112	7	9								
YU3ROM	21	57,998	457	18	76	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK2GW	A	288,456	826	46	73								
YU3ROM	21	67,598	457	18	76	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3AEW	..	32,296	135	34	55								
YU3ROM	21	43,815	280	31	96	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4X4	28	129,704	712	24	38								
YU3ROM	21	89,010	520	25	65	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK4QK	21	394,026	1306	29	73								
YU3ROM	21	93,104	487	19	69	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3RJ	..	4,825	70	12	13								
YU3ROM	21	1,865,754	2485	88	261	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3MR	14	189,640	719	28	62								
YU3ROM	21	35,474	447	18	41	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK3XB	3.5	5,644	112	7	9								
YU3ROM	21	63,425	447	18	41	YU3ROM	..	10,470	157	2	10	YU2OM	..	10,047	103	16	35	YU2OM	..	10,047	103	16	35	VK2GW	A	288,456	826	46	73								
YU3ROM	21	34,125	272	20	45	YU3ROM	..																														

PERU		UNITED NATIONS BUILDING										CHECK LOGS										
0A4AHZ	7	25,305	251	15	20	4U1UN	424,564	1743	48	70	HAQKLE	264,354	727	57	155	UKSHAB	80,106	282	45	113		
VENEZUELA	A	856,514	1194	75	166		HAQKLU	250,755	693	62	157	UK5LAK	79,417	341	37	112						Our deepest thanks to the following stations who sent in Check Logs:
YV1NX	7	156,216	740	18	51		HAQKGW	227,760	649	58	150	UK5MBQ	78,775	437	32	105						AB2N, C5ABT, DK50S, DK9NH, DL2PY, DM2ADC, DM2AZL, DM2BJD, DM2BML, DM2BRK, DM2BOB, DM2BYO, DM2CBE, DM2CBF, DM2CHJ, DM2CVB, DM2CZJ, DM2DDF, DM2DEO, DM2DGB, DM2DUD, DM2DXD, DM2EUH, DM2FMM, DM2GDL, DM2GHL, DM2YLO, DM3CF, DM3FC, DM3LF, DM3NCJ, DM20A, DM3PBK, DM3UE, DM3UH, DM3VBF, DM3XM, DM3XZN, DM3YIN, DM3ZC, DM3ZVA, DM4EB, DM4NEE, DM4OLG, DM4PIH, DM4PN, DM4UJ, DM4WP, DM4XOM, DM4ZEL, DM4ZLM, DM5JB, DM5XIG, DM5ZLD, DM6LAC, EA3AOY, F3DA, F5AI, FP8AP, JR1GJP, JH3BNJ/4, JA7ARW, K6FM, KJ1THBK, LA8CJ, LX1CO, LZ1XL, LZ1KAA, LZ1UA, LZ1FJ, LZ2DR, LZ2KEF, LZ2XXX, OH2XP, OH2BAC, OH2KP, OH2BOE, OH5YX, OH6GD, OH8OR, OK1AYU, OK1DMP, OK1FDB, OK1IAR, OK1KIX, OK3CFS, OK3CKA, OK3KGW, OK3TB, OK3RA, OY1H, OY7ML, OZ1BCI, PA0AHO, PA0CF, PA0PLM, PY2ZGF, SK1AQ, SM2COR, SM3CBR, SM4ODE, SM5BDV, SM6CPO, SM6FAX, SM6ID, SM6INC, SM6JZ, SM7AAQ, SM7AIL, SM7FSV, SM7IWN, SM7MS, SM7TV, SM7VY, SM0CMH, SP1ALK, SP1DPA, SP2AJD, SP1ASJ, SP2BMX, SP2GMH, SP2GKQ, SP2GMH, SP2GOW, SP2HBPZ, SP2JNK, SP3AGE, SP3KPN, SP3XR, SP4ETO, SP4GHT, SP5DED, SP5CBA, SP5KTR, SP5PTB, SP5RX, SP6EQZ, SP6DMJ, SP7CUJ, SP7XK, SP8KBN, SP8PRL, SP9BBH, SP9EIJ, SP9KCB, UA1CQ, UA1OSM, UA1TCO, UA1ZZW, UA3ABN, UA3ABP, UA3AEX, UA3AGL, UA3AIT, UA3DAT, UA3DB, UA3DCX, UA3DFV, UA3DG, UA3DL, UA3DNG, UA3DNV, UA3ECM, UA3ESN, UA3LAR, UA3LCC, UA3MBD, UA3NAU, UA3RKA, UA3ST, UA3TAG, UA3TAM, UA3TDK, UA3TDP, UA4AY, UA4BI, UA4HAN, UA4HEJ, UA4OP, UA4QK, UA6ACP, UA6AOJ, UA6AKT, UA6ARX, UA6AVD, UA6JAY, UA6LDF, UA6LFQ, UA6YAK, UA9AAB, UA9MDJ, UA9ND, UA9NN, UA9QAC, UA9UBM, UA9XAB, UA9XS, UA0ABC, UA0AYL, UA0LEO, UA0LCJ, UA0SAU, UB5GDL, UB5LAL, UB5MFF, UB5NU, UB5QBJ, UB5QGA, UB5UCH, UB5UW, UB5WK, UB5YB, UB5ZA, UC2CFA, UG6GAF, UB8DC, UK1ZAB, UK2BAS, UK2BBF, UK2GAC, UK3AO, UK3ACR, UK3DCF, UK3RAD, UA3CT1, UK4FAV, UK5EDX, UK5QBT, UK5SAG, UK5WAG, UK6UAA, UK7GAA, UK9CAA, UK9LAA, UK9YAR, UL7EAH, UL7GAA, UL7PBI, UL7QF, UO5OEV, UO5WB, UO5OWN, UP2BGR, UP2BV, UQ2GGE, U5JD, UT5MD, UV3DN, UV3TV, UZ3RV, VE3IPR, W3CV, W6BYB/7, W6ODD, YO2QY, YO4BII, YO4CAH, YO8BDQ, YU1PFT, YU3TOV, YU3TRI, YU4ALM, ZL2GZ, ZX2XB, Z4TA.
YV4OY	7	12,798	151	10	17	VU2GO	HAQKOB/P	218,400	770	55	140	UK5MDI	27,200	250	21	64						
YV1OB	1.8	106,930	234	58	112		HAQKHB	190,856	617	56	138											
QRPP	A	199,383	550	51	72	JAY2YKA	HAQKBM	188,739	653	60	140											
G4BUE	..	192,280	547	49	141	JAY4YFH	HAQKZS	152,334	504	54	132											
W5YZ	..	116,560	226	80	108	JAY3VEE	HAQKSS	135,136	480	47	117											
KH6JLH/		106,930	234	58	112	JAY6YDH	HAQKHW	115,515	344	54	97											
W8			1,547	31	10	JAY4YGM	HAQKMG	96,228	341	49	113											
OK1DKW	..	94,628	449	44	120		HAQKML	81,650	319	45	97											
SM5CCT	..	92,443	338	45	124																	
WA6POC		84,734	309	51	51																	
WA4IAR		78,507	208	55	88																	
WA2JOC		29,402	89	42	80																	
W9PNE		19,600	94	42	56																	
VE5JQ		18,564	217	22	20																	
HB9IK		15,908	159	21	61																	
JA9BKU		15,879	90	34	33																	
JF3WNK		13,192	78	28	40																	
W1PWK		8,804	47	30	41																	
W7RRJ		5,032	50	16	18																	
G3IGU		4,272	79	14	34																	
JH1HTK		2,268	34	13	15																	
K8EEG/D	..	8	2	2	2																	
K1LWI	28	55,112	240	24	59																	
OK3AIG		10,120	79	17	27																	
WD9ENH	21	5,060	45	14	30																	
OK1ASQ		1,040	22	8	12																	
4Z4UO	14	20,436	182	8	31																	
VE4NU		2,409	114	6	5																	
KL7BT	..	1,134	20	9	12																	
OK3CAA	1.8	9	4	1	2																	
MULTIOPERATOR SINGLE TRANSMITTER																						
NORTH AMERICA																						
UNITED STATES																						
K1PR		2,371,600	1710	133	351																	
N1AC		1,104,201	2075	102	255																	
W1MX		1,009,656	1003	109	270																	
W2YV		1,884,696	1401	129	223																	
W2KI		663,552	737	101	223																	
WB2SST		624,630	789	87	195																	
K2KB		542,278	625	96	218																	
W2UI		369,648	494	84	188																	
K2FL		363,200	413	98	222																	
K2TD		354,000	449	88	207																	
W2MO		41,984	130	48	80																	
N3RS		2,887,920	1798	149	411																	
W3BGN		2,192,400	1528	140	364																	
W3GG		999,984	1070	100	232																	
W3NX		603,479	511	113	246																	
K3MD		558,056	636	95	221																	
K3IU		393,600	612	77	169																	
K3YL		301,077	474	82	161																	
W3GNQ		291,868	411	80	182																	
W3UO		267,244	351	93	191																	
N3RL		205,016	332	77	155																	
K3SME		143,220	245	82	138																	
W3EVW		69,500	177	56	83																	
W3YFV		2,323,280	1588	144	370																	
N4AR		1,985,277	1492	135	334																	
K4WX		585,042	618	105	242																	
N4RA		492,081	664	82	185																	
K4CG		492,081	644	82	185																	
W4EY		463,151	584	94	205																	
N4CO		366,552	416	103	232																	
W4RJA		350,075	496	80	195																	
K4PB		224,968	342	82	162																	
W4DM		160,380	280	72	148																	
N4TX		126,888	239	78	120																	
K4EBY		128,888	239	78	120																	
N4CO		77,696	215	45	83																	
W4PVC		28,254	102	41	61																	
K5JA		2,246,264	1620	141	347																	
W5AC		906,675	875	125	260																	
K6KV		1,288,966	1397	115	207																	
W6BIP		670,710	832	104	179																	
K6YK		626,653	845	103	166																	
W6UJA		140,448	242	93	131																	
K6UJC		1,674,966	1633	108	336																	