

# Results, 3rd IARU HF World Championship

“What a great contest! I worked a bunch of new countries and had a great deal of fun, to boot!”—NVØU

By Billy Lunt, KR1R  
Contest Manager

In the midst of prime vacation time, 1367 participants glued themselves to their operating positions for the 24-hour third running of the IARU HF World Championship, July 9-10, 1988. The bands were hot and full of activity! Reports indicate that 15 meters was the prominent band in this year's contest. K6MJ stated that this was the best 21-MHz opening that he has ever heard. He worked all continents in just 38 minutes! WA5IYX claimed, “This was the highest solar flux for this July event since the early 1980s. The results on 15 meters showed with an opening to Europe lasting well after 2 hours past local sunset on this end.” K3IXD observed, “There was a lot of QRM on 20 meters, although 15 meters was wide open. I worked YB with my beam on Europe and Europeans with my beam on Japan using only 100 watts SSB output.”

Fifteen wasn't the only band to be blessed with great propagation. All bands seemed to produce QSOs and multipliers aplenty. It was “a flip of a coin” as to what the best band was during any given time throughout the contest. PA3CWL explained, “I enjoyed the contest very much because conditions were so great. I should have made more QSOs on 80 and 160 meters, but things were going so well on 20 that I forgot to QSY in time. HI HI!” KA1GQW marveled over the great band conditions and good operators making the contest a pleasure, while exclaiming, “Go sunspots!” Although WB2EKK couldn't spend a lot of time in the contest, he raved about the great conditions and noted that S79D, FH5EF and KX6HN responding to his CQs were nice highlights. K4XS spent some time on 10 meters and claimed, “There were very good conditions to Europe.” From the other side of the pond, I4UHF proclaims, “Fantastic propagation to the US on 20 meters in the night! What a pile-up!” Conditions like these spark new life into contesting and explain the overall increase in scores for this year's contest.

Twelve IARU member-society HQ stations sent their logs to Box AAA for checking. HG6ØHQ more than tripled last year's leader score to finish first among the HQ stations with 9.5 million points. Second-place Y61HQ scored 4.98 meg with OK7AA close behind with 4.97 meg. Thanks to all the HQ stations that participated and gave us those extra multipliers.

All top 6 spots in the mixed-mode category scored over a million points as compared to last year's winning score of 838k. On top of the list is Tom, KIKI, who scored an impressive 1.4 million points to claim 1st place mixed-mode world. RU1DZ finished 2nd place with 1.3 million points and was followed by Rich, K1CC, with 1.2 million points. RB5IM, HA5PP, and KL7Y all scored over one million points and finished in 4th, 5th and 6th places respectively.

Bettering his last year's score by 300k, Spyros, 5B4MF, reclaims the 1st place world, phone-only category with 1.25 million points. Rasa, YU4EU, guest op at 4N4A, was right on his heels finishing only 4k points behind for a strong second place world phone. K4XS finished up in third-place world and first-place W/VE with 1 million points. WB9HAD scored 686k points for second-place W/VE, followed by NU6S in third-place W/VE with 481k.

The first-place world CW winner for 1988 was C43T (YU1RL, op) from Cyprus with 1.6 million points. P4ØGO mustered 1.5 million points for a strong second place, and HAØMM scored 1.2 million points for third-place world CW. K1TO finished fourth-place world and first-place W/VE followed by WM5G (KRØY, op), finishing fifth-place world and second-place W/VE CW.

In the multioperator class, the entire top 10 scored over a million points and the top two even made over two-million points each—not bad for a 24-hour contest! Contest team HG1S edged out RL1P and crew for the top honors with the gang at UQ1GWW finishing 3rd in the multioperator category. The troops at N5AU were the only W/VE multiop station to score over a million points and make the world top ten, finishing in 9th place. N5RZ scored 998k for second-place W/VE and K6TMB scored 925k for third-place W/VE.

Again this year, the CW-only category proved to be the most popular. The second most popular category was phone, followed by mixed mode and multioperator. With the increase in 10-meter propagation, and US Novices and Technicians on 10-meter phone, maybe popularity order among entry classes will change in 1989. Who knows? Tell your friends and neighbors about the fun you had in the contest and invite them to play in next summer's event. See you July 8-9, 1989 for



Rasa, YU1RL, guest op at C43T, pounded brass to the tune of 1.6 megs to win first-place World CW from Cyprus.

the 4th running of the IARU HF World Championship.

## Soapbox

I took the family fishing and therefore missed some of the contest. Next year, I'll try to work the entire contest (NL7DU). I enjoyed this year's event and am looking forward to the 1989 competition (VE6APN). I operated most of Saturday until the neighbors complained of TVI then I had to wait until after midnight to operate (AA4Q). It is too bad that 10 meters never opened up. The little TA33 Jr and 100 W did a good job on 20 meters (KI6ZH). There seemed to be much more activity than last year (AA6EE). Very interesting conditions. This contest is a good way for the new DXers to work new countries (N6JM). Gee, I was determined to work through the entire night of this contest, but it was just my luck to fall asleep in the final hours of the contest. I woke up one hour after the contest ended. Because I was so disgusted, I couldn't get back to sleep until several hours later! Oh well, see you next year (WE7B). I was 8 hours late getting started and failed to reach my initial personal goals, as well as my modified ones. Twenty meters folded 2 hours before the end of the contest. My relationship with the YL (bless her, she got her ticket and helped me log) was put under great stress. Obviously, I'm disappointed with the number of contacts and the score . . . so when is the next contest? (AA5CH). The highlight of the contest was working W1AW! (KK7Z). My first contest using a computer! Thanks to Ken, K1EA (KM9P). Foiled again by lady luck! My amplifier blew up 22 minutes into the contest. I had to operate barefoot into a tribander stuck in a southwesterly direction (KIPLX). Lost 3 hours to a local thunderstorm

## IARU Headquarters Stations

HG60HQ (HA1YA, HA4s XH, XT, HA5s DW, FM, GF, LN, WE, HA6s ND, OQ, HA7RY, HA8IE, HA0DU, ops)	9,567,719- 11011- 259
Y61HQ (Y21s TL, YK, Y22TK, Y23EK, Y24UK, Y25ZO, Y32s JK, TK, VK, Y33VL, Y37XJ, Y42s GK, LK, MK, ops)	4,987,920- 7262- 210
OK7AA (OK3s CBU, CFA, CMZ, CQJ, CQR, CQW, CSQ, CUM, DT, EA, JW, LU, LZ, RM, TAP, TCL, TDP, TJI, TMM, YCM, YL, YX, ops)	4,976,722- 6655- 218
LZ7A (LZ1s AT, BB, CL, CY, GC, HA, IX, PJ, RF, UU, ZF, ZO, LZ2s AB, FL, RS, SC, VP, ZA, ops)	4,348,970- 6960- 217
YQ0A (YO3RG, YO4s ATW, AVR, BEW, BEX, FM, HW, PX, SX, XF, YO6s AWR, AZM, BQT, MZ, YO8s BAM, CQQ, DP, EB, YO9s APJ, FE, ops)	3,678,363- 6348- 211
OE5XXL (OE5s CA, DI, DIN, JDL, JTL, KE, ops)	1,855,050- 3431- 166
GB75DX (G4s BWP, GIR, ops)	1,395,250- 2733- 125
W1AW (KY1T, N1FOZ, N01J, W1OD, WA1MBK, WB1CRH, KJ4KB, WA4CMS, ops)	1,391,529- 3085- 139
JA3RL (JF1RPZ, JI2GUT, JA3s MAU, NDM, JG3s KUT, RPL, JI3s ERV, OYM, JR4ISF, ops)	747,947- 2107- 113
HL0HQ (HL1AYE, HL0J, ops)	13,344- 287- 15
ZL6A (ZL2s BHF, SJ, ops)	1,404- 22- 13
EI0RTS (EI2CL, op)	1,273- 25- 19

during peak European openings on the low bands Saturday night. Thanks to John, KING, and Rick, KING, for sharing the wealth (KD2SX). Thanks for the nice contest. The bands were good during the whole thing (N2GZL). Multi-single the old fashioned way—1 radio, 2 guys! Good contest! I wish it was in the winter though (AA4NC). I really enjoyed the contest (WA5DTK). Unfortunately, I had to QRT a lot due to the large thunderstorms! Generally, conditions seemed pretty good most of the time (excluding the thunder crashes) (W4YN). Lots of activity. I had my best CW hour ever! Next year, I'll operate the full contest on all bands

## Top World Scores

<b>Mixed</b>	
<i>Call</i>	<i>Score</i>
K1KI	1,440,904
RU1DZ	1,301,994
K1CC	1,229,580
RB5IM	1,087,243
HA5PP	1,067,520
KL7Y	1,004,224
K3ZO	973,216
VU2TJW (K3TW,op)	930,088
LZ2KSQ (LZ1F-156,op)	878,695
UA0SAU	843,320
<b>Phone</b>	
<i>Call</i>	<i>Score</i>
5B4MF	1,250,210
4N4A (YU4EU,op)	1,246,185
K4XS	1,043,984
RB5MT	1,015,208
HA5NP	954,912
DL8PC	895,832
RB5DX	877,189
UM8MDX	836,740
KH2F	763,392
UW9WK	748,650
<b>CW</b>	
<i>Call</i>	<i>Score</i>
C43T (YU1RL,op)	1,649,070
P40GO	1,509,348
HA0MM	1,265,264
K1TO	1,172,162
WM5G (KR0Y,op)	1,029,240
UV0LT	1,018,008
N2IC0	969,180
K4VX0 (KM9P,op)	959,636
K1ZZ	958,958
K8AZ (K8NZ,op)	902,473
<b>Multioperator</b>	
<i>Call</i>	<i>Score</i>
HG1S	2,359,104
RL1P	2,127,246
UQ1GWW	1,747,872
LZ9A	1,740,272
4J4F	1,703,160
OH6LK	1,686,385
UP1BWW	1,685,834
OH1AF	1,648,890
N5AU	1,636,250
OK5R	1,630,252

(N0BSH). Great contest! For the first time, I didn't even mind being off the air for an hour due to a thunderstorm (KO9Q). Nice event. I managed 7 hours despite the usual Saturday commitments. Definitely will try to plan more time next year

## Top W/VE Scores

<b>Mixed</b>	
<i>Call</i>	<i>Score</i>
K1KI	1,440,904
K1CC	1,229,580
K3ZO	973,216
WB5BIR	676,791
K3IPK	641,900
KZ5D	640,120
AD5Q	532,233
WZ4F	466,128
AA4S	463,294
KI6EZ	343,988
<b>Phone</b>	
<i>Call</i>	<i>Score</i>
K4XS	1,043,984
WB9HAD	686,738
NU6S	481,778
NK1F	394,001
K8SVL	263,712
W1GD	258,984
KB0C	145,597
N0ST	135,954
N4MM	103,224
N4UH	102,438
<b>CW</b>	
<i>Call</i>	<i>Score</i>
K1TO	1,172,162
WM5G (KR0Y,op)	1,029,240
N2IC0	969,180
K4VX0 (KM9P,op)	959,636
K1ZZ	958,958
K8AZ (K8NZ,op)	902,473
WA6VEF	745,358
K8CC	738,738
WB2Q	679,752
KZ2S	678,951
<b>Multioperator</b>	
<i>Call</i>	<i>Score</i>
N5AU	1,636,250
N5RZ	998,244
K6TMB	925,514
NR5M	830,520
K5DX	752,082
AA4NC	747,542
KD2SX	735,879
N5EA	675,324
A18D	645,376
K9SD	536,877

(W9HE). The contest was very good with excellent band openings on 15 and 20 meters (OH1AA). Nice to see 15 meters open all through the contest. Sorry, I had to work this year, or I could have made a big score! (GB6AR). It was an enjoyable contest. It is a pity that there was little activity from African countries and Canada. I like the 24-hour period and the IARU HQ Station multipliers (GM3CFS). A fine contest this year and certainly increasing in



The operators at JA3RL, the IARU HQ station in Japan. Pictured from left to right are JG3RPL, JI3OYM, JA3MAU, JG3KUT, JI3ERV, JI2GUT, JR4ISF, JF1RPZ.



Fourth-place W/VE mixed-mode winner, Allen, WB5BIR, is busy at his keyboard.



The crew at multioperator station SP5KVV huddle together for a group photo.

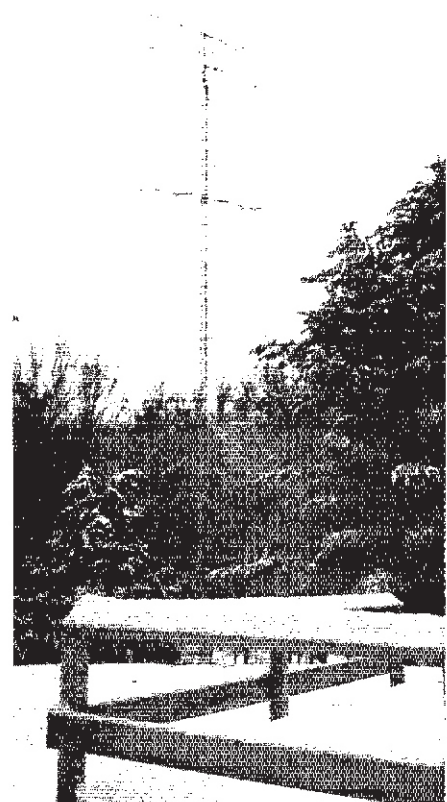
popularity. There was plenty of activity and some great DX (GW4RHW). It is the most fun contest of the year (ON6CR). Not a bad score for my alternate station (down valley). I hope to do better next year (DL6FBL/A). Fantastic contest! Thanks for the pleasure! (LZ1F-156). Great fun having a guest op like Reg, VE1BNN, and nice propagation on 15 meters (LZ9A). Thanks for the fine contest. It was a good time (SP5JXK). I didn't put on a serious operation; I only wanted to hear the bands in Southern Europe. The amplifier was available only from 2 AM local when TV quit (OK1RI/SV). This was a FB contest! I wish there was a QRP category (Y24TG). I operated the contest QRP (1 W). My antenna is not good on 40 and 10 meters (YO3FGO). It was rather difficult to work DX stations with my QRP station. However, it was an enjoyable contest. (YO5COJ). Fine contest! It was great for testing my new QRP rig (YO3BDP). Thanks for the fine contest. This was my first try at it. I hope to CU next year (YT3FM). Thanks for the FB contest! There was good activity. Unfortunately, the conditions on 28 MHz weren't so good (RZ3DZ). Thanks for the nice contest! (UB5FBV). Great contest! (UB5BZ). There was poor propagation to JA (UT4UXW). Thanks for the FB contest! (UP3BO). Fantastic contest! Good conditions! Thanks to all those who participated for the fun. We'll try next year for a better score and larger multiplier total (UP1BWW). FB contest! (UR2RND). Thank you for the nice contest. I was able to work a new country, P40GO, and worked more than 50 multipliers! (UA9CBO). Many thanks

for the contest (UW9SW). Cheerio! (UI9BWE). Excellent contest! This is the first time we used our special call for this contest with very poor conditions —HI HI! This was also the first time we used a



Dan, K1TO, put his station and antenna farm to good use on CW—he came in at the top of the WVE heap and number 4 worldwide.

computer duping system. What a great help that was. Thanks to all those who worked us and made for an enjoyable contest (RLIP). The 24-hour format is much easier on the body and family. I would like to see more IARU society stations active (WA4UAZ). Worked the contest with only 50-W output (CT1BWW). I could only participate in the contest for 2 hours because of problems at work (EA3ELM). Unfortunately, Saturday and Sunday are working days over here (JY9LC). Many thanks for the fine contest. I am being relocated and hope to be active from Dar es Salaam, Tanzania (5H3) by late 1988 (VU2TJW/K3TW). I was very glad to participate in the contest (JA7DLE). Good conditions on 15 meters! (JA8YBY). Low-band conditions were very poor this year, but there was quite a bit of life to 15 meters—and even some on 10 meters (ZL1AIZ). Most Europeans did not know that Minami Torishima is in zone 90. To them, there is no zone after 75! Maybe things will be better in a few years! (KA2CC).



## Scores

Scores are listed by ITU zone and then by country within that zone. The line score indicates the call sign, total score, QSOs, multipliers and entry class. The entry class letters indicate: A—single operator, mixed mode; B—single operator, phone only; C—single operator, CW only; D—multioperator, single transmitter.

### ZONE 1

**Alaska**  
 KL7Y 1,004,224-1783-136-A  
 NL7HT 43,290-222-45-B  
 NL7GP 343,512-810-104-C  
 NL7DU 86,754-334-57-C  
 KL7CO (+KL7PU) 216,756-920-54-D

### ZONE 2

**Alberta**  
 VE6DZ 85,760-330-67-A  
 VE8SWL (VE6BP1,op) 3,819-51-19-A  
 VE6BF 171,024-480-84-C

### British Columbia

VE7IQ 1,851-37-13-C

### ZONE 4

**Ontario**  
 VE3OEO 12,296-74-28-A  
 VE3TJL 1,130-35-10-B  
 VE3KP 327,712-696-88-C

### ZONE 6

#### W6

#### East Bay

K6EZ 343,988-902-92-A  
 K6EQ 24-6-3-B  
 K8TMB (+K3EST,N8IG), 925,514-1033-163-D

#### Los Angeles

K6SVL 263,712-684-96-B  
 K6BN 53,440-204-77-B  
 A6Z 64,675-283-65-C

### Orange

N6BL 10,024-118-28-B  
 W6SX 5,859-78-21-C  
 K6MJ 5,549-43-28-C

### Santa Barbara

WA6FGV 144,782-615-72-A  
 AA4Q 60,836-252-67-C  
 N6HK 9,568-90-23-C

**Santa Clara Valley**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include AC8Y, NSNF, NU6S, WA6HRK, WA6VEF, N1EE6.

**San Diego**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include WA6UFY, K6ZLH, AA6EE.

**San Francisco**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes K6LRN.

**San Joaquin Valley**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes WW6O.

**Sacramento Valley**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes N6JM.

**W7**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include Arizona (K7ZL, K6LL), Idaho (W7Y), Montana (K7W, K7T).

**Idaho**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes W7Y.

**Montana**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include K7W, K7T.

**Nevada**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include WB7VH, NF7P.

**Oregon**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include W7YAO, KA7FEF.

**Utah**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include WE7B, KE7KF.

**Washington**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include KB7VD, K7RA, K7LED.

**Zone 7**

**W8**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include Arkansas (AA5CH), Louisiana (K2SD), Mississippi (WA5OYU), New Mexico (WS5O), North Texas (K5SD, NS1ET, K65JH, WM5G), N5AU, N5RZ, Oklahoma (N6CL, NSJKN, N5CG), South Texas (W8SBR, AD5Q, NZ5V, WA5IYX, K65U, K5MA, NXR8, WSNR, NR5M, N5HHS), K5DX, N5EA, W8.

**Louisiana**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes K2SD.

**Mississippi**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes WA5OYU.

**New Mexico**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes WS5O.

**North Texas**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include K5SD, NS1ET, K65JH, WM5G.

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include N5AU, N5RZ.

**Oklahoma**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include N6CL, NSJKN, N5CG.

**South Texas**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include W8SBR, AD5Q, NZ5V, WA5IYX, K65U, K5MA, NXR8, WSNR, NR5M, N5HHS, K5DX, N5EA.

**W8**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include Colorado (W8ZV, N8ST, W8BZ, K8CS, W8BWJ).

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include N2IC8, AC8S, N8CNV, WK8EA.

**Iowa**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include KF8H, W8PPF.

**Kansas**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include K8VGB, W89YJ, N8FMR.

**Minnesota**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include N8HOQ, WE8K, KF8T.

**Missouri**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include N8SB, N8VU, W88GFV, K4VX8, KM8L, KC8LX.

**Nebraska**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include AK8G, KB8CM, W88YV, K8SW.

**Zone 8**

**W1**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include Connecticut (K1KI, K1CC, WB9IHH, W8RG, NM1K, KA1YP, KC8PE, KA1HG, N1FQO, K1NCD, KA1QAS, KA1MIS, K1TO, K1ZZ, W1HUE, AA2Z), Eastern Massachusetts (WB2DND, K1CLN, WA1NPF, N8EK1, W1AX, KB1VL, W1OPJ), K1SA, New Hampshire (NK1F, W1LQQ), Rhode Island (K1PLX, KA1GQW, KD2SX), Vermont (NO1K).

**Eastern Massachusetts**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include WB2DND, K1CLN, WA1NPF, N8EK1, W1AX, KB1VL, W1OPJ.

**Vermont**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes NO1K.

**New Hampshire**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include NK1F, W1LQQ.

**Rhode Island**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include K1PLX, KA1GQW, KD2SX.

**Vermont**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Row includes NO1K.

**W2**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include Eastern New York (KC2QF, WB2Q, K2POF, NZAZS, K2SHZ), NYC-Long Island (K82G, N2GC, W2GHZ), Northern New Jersey (W1GD, WB2K, KE2CG, KZ2S), Southern New Jersey (WA2LBT, KR2BF, N2VW, N2GZL, W3ELJ).

**NYC-Long Island**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include K82G, N2GC, W2GHZ.

**Northern New Jersey**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include W1GD, WB2K, KE2CG, KZ2S.

**Southern New Jersey**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include WA2LBT, KR2BF, N2VW, N2GZL, W3ELJ.

**Western New York**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include W2TZ, W2FTY.

**W3**

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include Eastern Pennsylvania (K3IPK, W3ARK, NC8S, KB3TS, K3ZPG, NM2Y, W3BU3, KL7HIR3), Maryland-DC (K3ZO, WB2EKK, NO3X, K3XD, KA3QER, W3LPL), W3HXI, Western Pennsylvania (K5ZD3, W3CQA), W4 (Alabama: W2AF, NB9P, AA4XM; Kentucky: N4XM; North Carolina: AA4S, W4VP, N4UJ, KA4RVS, KJ4TI, KF4GW, K4PB, KAJYS, AA4NC; Northern Florida: KC4CSD, WC4E, WB4DIW, KD1U, WA4SSB; Southern Florida: WA4CTC, WA5DTK, K4XS, KO4J, WK4F, WD4AHZ, W4YN, N4BP; Tennessee: K4JHT, AA4DO, N4IR, K52X; Virginia: N4MM, N4XD, W4KMS, W4XD, R6ETM, WB4UBD), W8 (Michigan: W8BRHO, KBCC, W8BM, N8XJ, AIBD), Ohio (KBMF, KBNI, KASZNY, K8AZ), West Virginia (K8OQL, W8VEN, N8J, WB8ZYV), W9 (Illinois: W89DGE).

Table with 4 columns: Code, Value 1, Value 2, Value 3. Rows include W89HAD, KB9Z, W8LYA, N8AEJ, K9MMS, K9SD, NJ9Z, Indiana (KB8C, W8JGO), Wisconsin (N9C, W89EGC, N8BSW9, K9Q9, KB9S, W8HE), Zone 9 (VE: Maritime-Newfoundland (VO7AW, VE1CBF), Mexico (XE1VV), Bahamas (WBKFC8A), Dominican Republic (HI3AMF), St Vincent and Dependencies (J87CD), Virgin Islands (WB8TBU/KP2), Aruba (P48GO), Costa Rica (TEST), Cayman Islands (ZF2AH), Zone 12 (Colombia: HK1LDG, HK3NTI, HK3MAH; Peru: O44ZV; Venezuela: YV1C, YV1DWQ, YV7QP), Zone 13 (Brazil: PP7JCO), Zone 14 (Chile: CE3BFZ), Argentina (LU3F, LU6ETB, LU1FYZ, LU1YU/D, LU1F, LU8U, LU1EWL), Zone 15 (Brazil: PY3TD), Zone 16 (Argentina: LR1V).

ZONE 17

Iceland
DL3LAB/TF
DK2OY/TF
TF3SD

ZONE 18

Norway
LA5QFA
LA2AD
LA6ZFA
LA3WBA
LABDY

Finland
OH8AP (OH6NIO,op)
OH8NEV
OH7EU
OH3MP
OH1AA (OH7XE,op)
OH6AC (OH6WZ,op)
OH9KK/2
OH9NUE
OH3NM
OH8RV
OH6RC
OH2VZ
OH8TU
OH6LK (+ OH6E1)
OH1AF (OH1s CN,EH,HS,NOA,NSJ,ops)
OH2BAH (+ OH2s BJ,N,BMD)
Denmark
OZ5EV
OZ1LT
OZ1NN
OZ1YF
OZ8I
OZ1FJ
OZ1OY
OZ1UVN

Sweden
SM0DJ
SM5AL
SM9JQ
SM4CMG
SK6AW (SM6DED,op)
SM1BVQ
SM9JSM
SK6GX (SM6ORZ,op)
SM7LAZ/6

ZONE 19

European Russian RSFSR
RU1OZ
UA1OGH
RA1AA
U1BA
UA1OLL
UA1OGD
UA1OOO
UZ1NWP (UA1NAU,UN1s-888-599,488-599,ops)
RU1OZ
UA1OGH
RA1AA
U1BA
UA1OLL
UA1OGD
UA1OOO
UZ1NWP (UA1NAU,UN1s-888-599,488-599,ops)
91,264- 431- 62-D

ZONE 20

Asiatic RSFSR
RA9XF
UA9XJF
UV9CC
UA9XFJ
UZ9CWG (UA9s CAI,CPL,154-894,ops)
231,196- 577- 92-D

ZONE 21

Asiatic RSFSR
UA9LU
UZ9JWR (RA9s JR,JX,UA9JEV,ops)
912,429- 1438- 147-D

ZONE 22

Asiatic RSFSR
UA9BEZ
33,768- 322- 24-C

ZONE 23

Asiatic RSFSR
UA9QF
187,650- 560- 75-B

ZONE 26

Asiatic RSFSR
UZ9KWT
62,455- 433- 58-A

ZONE 27

Ireland
E17D1 (E11CS,E12s GN,GR,E13EG,E15s GM,FK,E18AU,E19s FT,GQ,ops)
111,663- 615- 57-D

France

F6BVB
F1JJDG
F8WE
F1JPA
FE6FNA
F5IN
F3XB
F3UL
F6EPQ
FB1NQL
F6CCI

England

G86AR (G4XKR,op)
G4OBK
G3ESE
G4ZFE
G6NK
G4ZME
G6OI (G4s IEB,XOM,GBZMP,ops)

Scotland

GM4WEW
GM3CFS
Wales
GW4RHW
GW0AJI

Luxembourg

LX1GQ
LX2EA
Belgium
ON5WL
ON4KST
ON6CR
ON5CZ
ON6JG
ON4XG
ON6LO
ON8AH (+ ON8s MH,QR,VL)

Netherlands

PA2GER
PA3EUB
PA0DUO
PA3EMN
PA6LOU
PA3CWL
PA3BTH
PA0PUR
PA0VLA
PA3BNT
PA3DHR
PA3BNH
PA3DKX
PA3AMA
PA0KHS (+ PE1L BX,PA3s ADJ,DQW,ENJ,EYZ,PA2s NZH,TGA)
418,678- 2056- 47-D

ZONE 28

Federal Republic of Germany

DL6FBLA (NF1T,op)
DF2RG
DL8PC
DL2BAJ
DKSKJ
DH9OAG/M
DL1VJA
DL4BBO
DJ0IF
DL20BF
DK8KC
DL1TH
DL6LBB
DL4GBR
DF3QN
DL3HAH (+ DL1HB,T,DL3HCY)

Hungary

HA5PP
HA6CI
HA0IT
HA5HH
HA3NU
HA7ZI/2
HA5NP
HA8YX
HA0MM
HA1XY
HA5LZ
HA7UI
HA8JF
HA5KF/1
HA6NL
HASBA
HA0DD
HA6VA
HA8LG
HASMM
HA3GQ
HG1S (HA1s AG,AH,DAQ,DAE,TD,TJ,SV,ops)
HG9R (HA4XX,HA9s OA,PP,RR,RP,RU,ops)
1,067,520- 2091- 139-A
414,184- 1200- 92-A
326,819- 1109- 103-A
162,770- 703- 82-A
62,784- 257- 72-A
10,640- 138- 28-A
954,912- 1741- 147-B
169,120- 561- 80-B
1,266,264- 2108- 172-C
340,092- 942- 108-C
329,900- 725- 140-C
257,697- 697- 99-C
225,192- 750- 88-C
139,776- 485- 83-C
105,840- 301- 40-C
39,200- 256- 56-C
39,704- 200- 59-C
35,322- 204- 58-C
25,350- 277- 26-C
20,358- 174- 39-C
17,616- 231- 24-C
2,359,104- 3539- 192-D
1,438,320- 2692- 156-D

HASKKC (HA5s KP,LV,MA,MD,MO,OG,ops)

HGBV (+ ops)
HA5KBM (+ ops)
HA8KZC (HA8s UB,XF,ZC,YT7KW,YU7s DD,EU,WW,ops)
HA1KRR (HA1s DRH,DRR,XO,XU,ZN,ZZ,ops)
HA3KNA (HA3s FO,NS,NU,OU,OV,ops)
HA8KVK (+ HA8VK)
HA8KNX (+ ops)
HA5KOB (HA5s BBC,MY,ops)
HA9KSF (HA9s AR,SU,ops)
Switzerland
HB9DLU
HB9DX
HB9QA
HB9DFY (+ HB9VIV)
Lichtenstein
HB0/DL1SFB
Italy
I02QMU
IK2JEX
IK6HWJ
IK8LLK
I4UHF
I08KHP
I8SAT
IK3HMD
IK0DWN
I4CSP
I3XUG
IA5PI.S
I08RFD (I8RFD,op)
IK2GNS
IK2JG
I1XPO
IK8EJN
IA5KBA
IKADY
I1VTX
IK2CFH (+ I2VXJ,IK2s BGD,EGL)
I06BOB (+ I8BQI,IK6IMZ)
Sardinia
IS6LYN
IS0OMH
Bulgaria
LZ2KSO (LZ1F-156,op)
LZ1KNP
LZ1VA
LZ5A
LZ2WA
LZ2GV
LZ2KS
LZ1TA
LZ1IT
LZ1PJ
LZ9A (LZ2s CC,DF,GR,HE,PO,VE1BNN,ops)
LZ1KVF (LZ1Cs 75,94,187,ops)
LZ1KAP (+ ops)
Austria
OE1TKW
OE/DL2DN
Czechoslovakia
OK1VD
OK2RU
OK1XW
OK2PGT
OK1OK
OK1KZ
OK1OFM
OK3CDZ
OK3TEW
OK1MH
OK2BHQ
OK2PDT
OK3TTR
OK3OXs
OK1DKS
OK3CTX
OK3YK
OK1AJY
OK2BTC
OK2BDD
OK3KAG
OK2PZV
OK3F0N
OK3ZPX
OK3PWF
OK1MNV
OK1TW
OK3YCA
OK2HI
OK3CEL

OK1FFU

52,326- 307- 54-C
49,610- 296- 55-C
44,484- 171- 66-C
32,830- 208- 49-C
25,872- 128- 56-C
23,717- 175- 37-C
21,856- 181- 32-C
18,522- 191- 42-C
17,894- 257- 46-C
9,090- 78- 25-C
7,440- 84- 24-C
4,354- 121- 14-C
2,408- 80- 14-C
1,595- 67- 11-C
1,428- 66- 12-C
1,020- 41- 12-C
913- 70- 11-C
810- 41- 10-C
756- 36- 9-C
650- 14- 13-C
180- 19- 6-C
40- 9- 1-C
OK5R (OK1s ADM,ADS,ALW,AWZ,ops)
1,830,252- 2424- 162-D
OK1KSO (OK1s AEZ,AI,AMF,JJB,WT,ops)
738,585- 1415- 135-D
OK3KEE (OK3s CTL,MB,YEC,ops)
394,464- 1040- 112-D
OK1KLV (OK1s ADF,FDI,ops)
283,680- 931- 96-D
OK1ORA (OK1s AYD,289B-22318,ops)
186,534- 679- 86-D
OK2KLI (+ ops)
184,368- 593- 92-D
OK1KZ/P (+ ops)
136,420- 561- 76-D
OK2KDS (+ ops)
95,566- 420- 71-D
OK2KMR (+ OK2BQZ)
64,960- 357- 64-D
OK2KOD (OK2s BDI,BHM,WAZ,ops)
17,523- 122- 33-D
OK2KYD (+ ops)
3,150- 50- 21-D
Poland
SP3JFA
SP8BRP
SP9MFM/A
SP3ADV
SP6CZ
SP80VP
SP9EMO
SP3IBS
SP3DIK
SP9AVZ
SP3JHY
SP9H2F
SP9BBH
SP3BDS/s
SP5JTR
SP1ASN
SP8FNA
SP2FJ (SP2FAP,op)
11,718- 145- 29-C
10,440- 142- 18-C
9,744- 142- 34-C
6,638- 75- 34-C
2,751- 55- 21-C
2,590- 141- 10-C
2,004- 167- 12-C
291- 29- 9-C
SP5KVV (SP5s MXZ,DAU,ops)
575,488- 1274- 128-D
SP5PBE (SP6s ANJ,ELA,ops)
215,176- 658- 96-D
SP3PLD (SP3s IBM,NYS,ops)
185,942- 582- 102-D
SP2KFV (+ ops)
55,404- 350- 54-D
Greece
OK1RII/SV
J41NA (SV1NA,op)
50,826- 411- 43-C
German Democratic Republic
Y35VM
Y57WG
Y25TO
Y53ED
Y21VF/A
Y41JH
Y55UG
Y59JU
Y21QUP
Y27FN
Y32PIJ
Y83XN
Y42HAP
Y31EM
Y36RG
Y21WI
Y46IF
Y25PE
Y43QF
Y24SH/A
Y67UL
Y32WF
Y27B/A
Y41PG
Y61XM
Y26JD
Y22HF
Y37EQ
Y25KF
Y23CM
Y87VL
Y25VD
480,760- 991- 138-A
453,876- 1195- 109-A
348,705- 865- 123-A
321,586- 931- 103-A
307,581- 918- 111-A
290,000- 835- 118-A
258,414- 831- 108-A
185,282- 634- 78-A
162,448- 601- 96-A
162,387- 556- 97-A
150,300- 561- 100-A
140,519- 649- 83-A
135,700- 579- 92-A
119,868- 468- 84-A
108,668- 400- 89-A
106,622- 414- 89-A
103,608- 571- 72-A
86,700- 535- 75-A
61,989- 366- 49-A
48,765- 293- 74-A
47,256- 258- 66-A
42,280- 243- 56-A
35,624- 219- 61-A
31,671- 176- 69-A
27,170- 174- 55-A
14,098- 100- 38-A
14,012- 208- 31-A
13,842- 119- 38-A
11,890- 115- 35-A
11,160- 168- 36-A
10,793- 75- 43-A
10,388- 87- 28-A
9,042- 134- 33-A



