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, K1KI, 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 the 4th running of the IARU HF World Championship.

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

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 (K1PLX). Lost 3 hours to a local thunderstorm

IARU Headquarters Stations

HG6ØHQ (HA1YA, HA4s XH, XT, HA5s DW, FM, GF, LN, WE, HA6s ND, OQ, HA7RY, HA8IE, HAØDU, 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

YQØA (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, NG1J, 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

HLØHQ (HL1AYE, HLØJ, ops) 13,344- 287- 15

ZL6A (ZL2s BHF, SJ, ops) 1,404- 22- 13

EIØRTS (EI2CL, op) 1,273- 25- 19

Top World Scores

Mixed

Call	Score
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
UAØSAU	843,320

Phone

Call	Score
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

CW

Call	Score
C43T (YU1RL,op)	1,649,070
P4ØGO	1,509,348
HAØMM	1,266,264
K1TO	1,172,162
WM5G (KRØY,op)	1,029,240
UWØLT	1,019,008
N2IC/Ø	969,180
K4VX/Ø (KM9P,op)	959,636
K1ZZ	958,958
K8AZ (K8NZ,op)	902,473

Multioperator

Call	Score
HG1S	2,359,104
RL1P	2,127,246
UQ1GWW	1,747,872
LZ9A	1,740,272
4J4F	1,703,160
OH6LK	1,696,385
UP1BWW	1,685,834
OH1AF	1,648,890
N5AU	1,636,250
OK5R	1,530,252

Top W/VE Scores

Mixed

Call	Score
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

Phone

Call	Score
K4XS	1,043,984
WB9HAD	686,738
NU6S	481,778
NK1F	394,001
K6SVL	263,712
W1GD	258,984
KBØC	145,597
NØST	135,954
N4MM	103,224
N4UH	102,438

CW

Call	Score
K1TO	1,172,162
WM5G (KRØY,op)	1,029,240
N2IC/Ø	969,180
K4VX/Ø (KM9P,op)	959,636
K1ZZ	958,958
K8AZ (K8NZ,op)	902,473
WA6VEF	745,358
K8CC	738,738
WB2Q	679,752
KZ2S	678,951

Multioperator

Call	Score
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
AI8D	645,376
K9SD	536,877

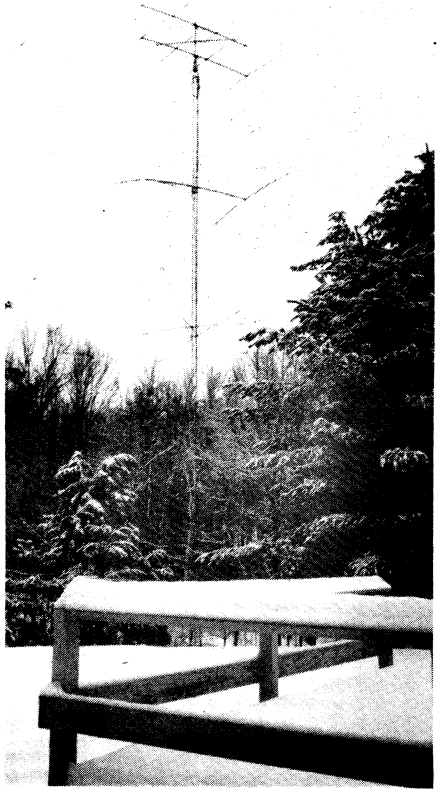
during peak European openings on the low bands Saturday night. Thanks to John, K1NG, and Rick, KI1G, for sharing the wealth (KD2SX). Thanks for the nice contest. The bands were good during the whole thing (N2GZL). Multi-single the old fashioned way—1 radio, 2 guys! Good contest! I wish it was in the 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 (NØBSH). 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 (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 SP5KVW 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, P4ØGO, 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 computer duping system. What a great help that was. Thanks to all those who worked us and made for an enjoyable contest (RL1P). 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).



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

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
KL7CQ (+KL7PU)	216,756	920	54	D

ZONE 2

Alberta

VE6DZ	85,760	330	67	A
VE6SWL (VE6BPI,op)	3,819	51	19	A
VE6BF	171,024	480	84	C

British Columbia

VE7IQ	1,651	37	13	C

ZONE 4

Ontario

VE3OEQ	12,296	74	29	A
VE3TJL	1,130	35	10	B
VE3KP	327,712	896	88	C

ZONE 6

W6

East Bay

KI6EZ	343,988	902	92	A
KS6Q	24	6	3	B
K6TMB (+K3EST,N6IG),	925,514	1033	163	D

Los Angeles

K6SVL	263,712	684	96	B
KI6BN	55,440	204	77	B
AI6Z	64,675	263	65	C

Orange

NM6L	10,024	118	28	B
W6SX	5,859	78	21	C
K6MJ	5,549	43	28	C

Santa Barbara

WA6FGV	144,792	615	72	A
AA4Q	60,836	252	67	C
N6HK	9,568	90	23	C

Santa Clara Valley

AC8Y	270,564-	841-	84-A
N6NF	145,562-	500-	73-A
NU6S	481,778-	963-	122-B
WA6HRK	6,832-	70-	28-B
WA6VEF	745,358-	1245-	142-C
N1EE/6	15,262-	147-	26-C

San Diego

WA6UFY	9,802-	92-	29-A
KI6ZH	37,572-	169-	62-B
AA6EE	16,302-	122-	39-C

San Francisco

K6LRN	8,775-	83-	25-C

San Joaquin Valley

WW6O	71,864-	334-	52-B

Sacramento Valley

N6JM	37,920-	150-	60-A

W7

Arizona

KK7Z	13,905-	129-	27-B
K6LL	596,817-	1200-	117-C

Idaho

WO7Y	82,080-	357-	57-A

Montana

KW7I	9,207-	79-	31-B
KS7T	145,584-	508-	72-C

Nevada

WB7VVH	4,104-	50-	19-B
NF7P (+NC7K)	455,220-	1053-	108-D

Oregon

W7YAQ	153,621-	379-	101-C
KA7FEF	10,933-	113-	29-C

Utah

WE7B	217,487-	799-	79-A
KE7KF	19,600-	229-	25-B

Washington

KB7VD	9,990-	77-	30-B
K7RA	77,280-	295-	69-C
K7LED (KA7CSE,WA7UVJ,ops)	35,144-	210-	46-D

Zone 7

W5

Arkansas

AA5CH (+KB5GQK)	13,394-	94-	37-D

Louisiana

KZ5D	640,120-	1248-	130-A

Mississippi

WA5OYU	75,072-	284-	69-A

New Mexico

WS5O	50,730-	277-	57-A

North Texas

KD5GD	47,112-	230-	52-B
N5IET	35,504-	176-	56-B
KG5JH	13,980-	116-	30-B
WM5G (KRØY,op)	1,029,240-	1400-	180-C
N5AU (WN4KKN,KM5X,KY5N,N5TR, WB5VZL,ops)	1,636,250-	2222-	187-D
N5RZ (+W5FO)	998,244-	1594-	162-D

Oklahoma

N6CL	25,529-	130-	49-A
N5JKN	58,752-	308-	51-B
N5CG (+KF5FM)	222,768-	843-	63-D

South Texas

WB5BIR	676,791-	1319-	139-A
AD5Q	532,233-	1145-	117-A
NZ5V	61,165-	259-	65-A
WA5IYX	43,940-	223-	52-B
KG5U	477,792-	1058-	108-C
K5MA	46,403-	243-	49-C
NX9G	39,100-	222-	47-C
W5NR	10,725-	76-	33-C
NR5M (+K2TNO,K5LZO,KE5IV, N5HHS,NT5D,WB5N,DL3YBM)	830,520-	1544-	135-D
K5DX (+K5GN)	752,082-	1244-	163-D
N5EA (+K5GA,W5ASP,WA9VLI, GWØECO)	675,324-	1386-	117-D

WØ

Colorado

WØIZV	41,830-	192-	47-A
NØST	135,954-	380-	83-B
WBØZ	38,250-	198-	51-B
KØCS	9,126-	77-	26-B
WØBWJ	1,830-	28-	15-B
N2IC/Ø	969,180-	1516-	145-C
ACØS	151,329-	497-	73-C
NØCNV	7,512-	68-	24-C
WØKEA (+K9MWM,KVØK,NDØE)	486,913-	910-	133-D

Iowa

KFØH	159,276-	519-	78-A
WØPPF	9,614-	114-	23-B

Kansas

KØVGB	47,640-	226-	60-A
WBØYJT	35,045-	216-	43-A
NØFMR	11,480-	98-	35-C

Minnesota

NØHOQ	4,774-	57-	22-B
WEØK	486-	20-	9-B
KFØT	39,928-	181-	56-C

Missouri

NSØB	40,430-	150-	66-A
NVØU	26,550-	182-	45-B
WBØGFV	581-	27-	7-B
K4VX/Ø (KM9P,op)	959,636-	1544-	142-C
KMØL	7,925-	85-	25-C
KCØLX (+KØQNS)	66,429-	275-	61-D

Nebraska

AKØG	48,350-	287-	50-A
KØSCM	61,688-	332-	44-C
WBØSYV	40,725-	283-	45-C
KØSW	7,857-	65-	27-C

ZONE 8

W1

Connecticut

K1KI	1,440,904-	1846-	184-A
K1CC	1,229,580-	1852-	162-A
WB9IHH	32,945-	193-	55-A
WE6G	17,312-	159-	32-A
NM1K	8,029-	61-	31-A
KA1YP	94,738-	420-	67-B
KC8PE	78,624-	370-	52-B
KA1HGY	46,526-	288-	43-B
N1FQO	20,064-	180-	32-B
K1NCD	16,842-	123-	42-B
KA1QAS	14,400-	151-	30-B
KA1MIS	1,062-	64-	9-B
K1TO	1,172,162-	1730-	157-C
K1ZZ	958,958-	1539-	154-C
W1HUE	48,422-	221-	62-C
AA2Z	19,040-	139-	34-C
KA1ION (+NET)	151,938-	526-	69-D

Eastern Massachusetts

WB2DND	65,144-	216-	68-A
K1CLN	56,050-	215-	59-B
WA1NPZ	52,896-	262-	57-B
N6EK/1	97,747-	401-	73-C
W1AX	23,400-	116-	50-C
KB1VL	14,652-	100-	37-C
W1OPJ	975-	21-	13-C

Maine

K1SA (+KA1PRD,KY1K,N1FHS,W1OO)	82,611-	287-	67-D

New Hampshire

NK1F	394,001-	945-	101-B
W1LQQ	10,121-	82-	29-B

Rhode Island

K1PLX	46,704-	261-	56-B
KA1GQW	182,186-	602-	71-C
KD2SX (+K1NG,KI1G)	735,879-	1368-	141-D

Vermont

NO1K	12,635-	119-	35-A

W2

Eastern New York

KC2QF	202,208-	637-	89-A
WB2Q	679,752-	1453-	108-C
K2POF	180,240-	495-	80-C
N2AZS	92,470-	401-	70-C
K2SHZ	50,752-	144-	61-C

NYC-Long Island

KS2G	69,498-	325-	66-B
N2GC	139,770-	1553-	90-C
W2GKZ	9,152-	76-	26-C

Northern New Jersey

W1GD	258,984-	652-	99-B
WB2K	91,287-	329-	63-B
KE2CG	45,885-	197-	57-B
KZ2S	678,951-	1291-	123-C

Southern New Jersey

WA2LBT	83,220-	330-	73-A
KB2BF	66,745-	409-	35-B
N2VW	9,576-	84-	28-B
N2GZL	12,204-	452-	27-C
W3ELJ	9,534-	100-	21-C

Western New York

W2TZ	137,224-	505-	68-C
W2FTY	70,112-	329-	56-C

W3

Eastern Pennsylvania

K3IPK	641,900-	1468-	100-A
W3ARK	64,200-	246-	60-A
NQ3S	30,438-	257-	38-A
KB3TS	20,586-	129-	32-B
K3ZPG	3,318-	44-	21-B
NM2Y	137,116-	480-	83-C
WC6U/3	45,262-	266-	53-C
KL7HIR/3	42,606-	247-	54-C

Maryland-DC

K3ZO	973,216-	1669-	136-A
WB2EKK	103,296-	463-	64-A
NO3X	72,806-	314-	59-B
K3IXD	35,847-	149-	63-B
KA3QER	1,586-	36-	13-B
W3LPL (WB3JRU,op)	543,000-	1073-	125-C
W3HXI	109,296-	378-	72-C

Western Pennsylvania

K5ZD/3	38,650-	192-	50-A
WB3CQA	7,938-	78-	27-B

W4

Alabama

WZ4F	466,128-	1128-	108-A
NB9P	462-	32-	7-A
AA4XM	2,208-	32-	16-C

Kentucky

N4XM	155,936-	492-	88-C

North Carolina

AA4S	463,294-	1086-	103-A
W4VP	75,245-	187-	101-A
N4UH	102,438-	476-	63-B
KA4RVS	72,407-	336-	61-B
KJ4TI	51,755-	263-	55-B
KF4GW	27,692-	158-	46-B
K4PB	114,920-	384-	85-C
K4JYS	94,320-	426-	60-C
AA4NC (+AA4GA)	747,542-	1479-	139-D

Northern Florida

KC4CSD	57,368-	232-	71-B
WC4E	119,964-	445-	78-C
WB4DIW	47,515-	215-	65-C
KD1U	18,765-	137-	45-C
WA4SSB	3,725-	37-	25-C

Southern Florida

WA4CTC	49,764-	188-	66-A
WA5DTK	17,754-	173-	22-A
K4XS	1,043,984-	2123-	142-B
KO4J	88,854-	404-	54-B
WK4F	24,531-	155-	39-B
WD4AHZ	174,023-	489-	101-C
W4YN	11,352-	100-	22-C
N4BP (+WV5Z)	339,586-	1249-	74-D

Tennessee

K4JHT	83,281-	303-	67-B
AA4DO	241,239-	645-	97-C
N4IR	53,235-	346-	32-C
KS2X (+KA2PGW)	25,632-	140-	48-D

Virginia

N4MM	103,224-	379-	68-B
N4XD	63,504-	264-	63-B
W4KMS	803-	25-	11-B
W4XD	33,800-	183-	52-C
K8ETM	4,199-	59-	17-C
WB4UBD	1,120-	20-	16-C

W8

Michigan

WD8RHO	16,842-	109-	42-B
K8CC	738,738-	1427-	126-C
WG8M	29,274-	187-	42-C
NX8J	2,448-	33-	18-C
AI8D (+AA8U,K8MJZ,KC8EK)	645,376-	1287-	128-D

Ohio

K8MR	301,665-	742-	105-A
K8NI	7,749-	95-	27-A
KA8ZNZ	70,176-	329-	68-B
K8AZ (K8NZ,op)	902,473-	1487-	143-C
N8BC	107,984-	372-	68-C
K8EF	58,888-	200-	68-C
WD8LLD (+WD8AUD)	530,250-	1200-	105-D

West Virginia

K8OQL	20,535-	115-	37-A
W8VEN	4,313-	55-	19-B
N8II	315,594-	856-	89-C
WB8YZV (+N4SLR,N8JPR)	9,725-	442-	39-D

W9

Illinois

WD9DGE	44,064-	284-	54-A
WB9HAD	686,738-	1495-	122-B
KG9Z	27,475-	263-	35-B
W9LYA	1,200-	26-	15-B
N9AEJ	189,380-	544-	85-C
K9MMS	61,290-	267-	54-C
K9SD (+K9HWU,KC9AL,WB9SBO, KØs BFR,FU,WØHBH)	536,877-	1081-	121-D
NJ9Z (+NX9O)	32,175-	207-	39-D

Indiana

KBØC	145,597-	507-	79-B
W9JOO	68,048-	259-	66-C

Wisconsin

NI9C	79,698-	343-	74-A
WD9EGC	1,725-	267-	5-B
NØBSH/9	525,635-	1299-	95-C
KO9Q	157,052-	549-	71-C
KB9S	127,205-	483-	65-C
W9HE	41,818-	169-	58-C

ZONE 9

VE

Maritime-Newfoundland

VO7AW	35,464-	140-	62-A
VE1CBF	56,364-	210-	66-B

ZONE 10

Mexico

XE1VV	92,016-	309-	72-A

ZONE 11

Bahamas

W8KKF/C8A	15,330-	141-	30-B

Dominican Republic

HI3AMF	44,363-	329-	37-B

St Vincent and Dependencies

J87CD	86,580-	341-	52-B

Virgin Islands

WB9TBU/KP2	2,600-	38-	20-C

Aruba

P4ØGO	1,509,348-	2099-	146-C

Costa Rica

TE8T (TI4SU,op)	58,140-	270-	60-C

Cayman Islands

ZF2AH (WA6VNR,op)	28,908-	251-	33-C

ZONE 12

Colombia

HK1LDG	104,858-	852-	27-B
HK3NTI	16,710-	123-	30-B
HK3MAH	518-	16-	7-B

Peru

OA4ZV	69,564-	327-	44-C

Venezuela

YY1C (YV1CP,op)	269,115-	719-	77-B
YV1DWQ	194,400-	534-	75-B
4M3B (YV3BKC,op)	42,032-	250-	37-B
YV7QP	5,780-	69-	17-C

ZONE 13

Brazil

PP7JCO	17,598-	93-	42-C

ZONE 14

Chile

CE3BFZ	37,596-	196-	39-C

Argentina

LU3F (LU6FAZ,op)	385,330-	719-	110-B
LU6ETB	261,528-	536-	102-B
LU1FYZ	29,304-	190-	37-B
LS6E (LU6EJP,op)	19,318-	156-	26-B
LU1YU/D	8,496-	70-	24-B
LU1F (LU1FLY,op)	3,932-	53-	16-B
LU6U (LU6UO,op)	180,880-	530-	70-C
LU1EWL	22,088-	112-	44-C

ZONE 15

Brazil

PY3TD	35,558-	313-	23-C

ZONE 16

Argentina

LR1V (LU1s VK,VV,LU2YE,LU5UL, LU7VCA,LU9VAB,ops)	726,392-	1286-	116-D

ZONE 17

Iceland

DL3LAB/TF	73,831-	474-	43-B
DK2OY/TF	121,481-	590-	59-C
TF3SD	13,020-	86-	35-C

ZONE 18

Norway

LA5QFA	95,841-	355-	69-B
LA2AD	5,876-	74-	26-B
LA6ZFA	5,590-	59-	26-B
LA3WBA	4,560-	63-	16-B
LAØDY	54,717-	280-	61-C

Finland

OH6AP (OH6NIO,op)	387,400-	1040-	104-A
OH6NEV	77,616-	298-	77-A
OH7EU	27,608-	493-	56-A
OH3MP	19,976-	150-	44-A
OH1AA (OH7XE,op)	627,224-	1361-	104-B
OH6AC (OH6WZ,op)	541,680-	1085-	122-C
OH9KK/2	140,306-	483-	87-C
OH9NUE	92,800-	320-	80-C
OH3NM	21,252-	150-	33-C
OH8RV	15,210-	140-	30-C
OH6RC	11,950-	64-	50-C
OH2VZ	11,919-	103-	29-C
OH8TU	280-	16-	7-C
OH6LK (+OH6EI)	1,696,385-	2577-	157-D
OH1AF (OH1s CN,EH,HS,NOA, NSJ,ops)	1,648,890-	2644-	155-D
OH2BAH (+OH2s BJN,BMD)	488,735-	1253-	103-D

Denmark

OZ5EV	224,280-	515-	105-B
OZ1LTB	27,210-	246-	30-B
OZ1INN	18,864-	245-	24-B
OZ1KVF	2,040-	63-	12-B
OZ8T	1,245-	25-	15-B
OZ1FEJ	780-	19-	12-B
OZ1DYI	340-	16-	10-B
OZ1JVN	84,436-	339-	76-C

Sweden

SMØDJZ	106,382-	337-	86-A
SM5ARL	125,748-	441-	84-B
SMØJOQ	21,175-	116-	55-B
SM4CMG	1,611-	89-	9-B
SK6AW (SM6DED,op)	274,740-	742-	95-C
SM1BVQ	94,563-	345-	79-C
SMØJSM	53,514-	261-	54-C
SK6GX (SM6ORZ,op)	10,584-	162-	27-C
SM7LAZ/6	2,415-	50-	23-C

ZONE 19

European Russian RSFSR

RU1DZ	1,301,994-	2012-	171-A
UA1OGH	168,300-	607-	75-A
RA1AA	276,246-	778-	103-B
U1BA	39,260-	238-	52-B
UA1OLL	31,030-	316-	29-C
UA1ZGD	23,932-	339-	49-C
UA1OOO	15,402-	131-	34-C
UZ1NWP (UA1NAU,UN1s-088-598, -088-599,ops)	91,264-	431-	62-D

ZONE 20

Asiatic RSFSR

RA9XF	63,638-	310-	47-A
UA9XHJ	206,569-	527-	89-C
UV9CC	74,124-	284-	58-C
UA9XFJ	41,640-	251-	40-C
UZ9CWG (UA9s CAI,CPL,-154-894,ops)	231,196-	577-	92-D

ZONE 21

Asiatic RSFSR

UA9LU	306,612-	666-	102-C
UZ9JWR (RA9s JR,JX,UA9JEV,ops)	912,429-	1438-	147-D

ZONE 22

Asiatic RSFSR

UAØBEZ	33,768-	322-	24-C

ZONE 23

Asiatic RSFSR

UAØQF	187,650-	560-	75-B

ZONE 26

Asiatic RSFSR

UZØKWT	62,455-	433-	58-A

ZONE 27

Ireland

EI7DJ (EI1CS,EI2s GN,GR,EI3EG, EI5s GM,FK,EI8AU,EI9s FT,GQ,ops)	111,663-	615-	57-D

France

F6BVB	164,016-	716-	67-A
F1JDG	31,410-	407-	30-A
F8WE	187,085-	352-	155-B
F1JPA	4,774-	150-	11-B
FE6FNA	2,394-	37-	18-B
F5IN	255,717-	918-	77-C
F3XB	183,600-	568-	90-C
F3JL	156,156-	470-	91-C
F6EPQ	13,354-	183-	22-C
FB1NQL	12,312-	136-	27-C
F6CCI	4,662-	62-	21-C

England

GB6AR (G4XKR,op)	71,332-	297-	68-B
G4OBK	686,964-	1361-	131-C
G3ESF	123,328-	448-	82-C
G4ZFE	57,555-	399-	45-C
G6NK	16,280-	123-	37-C
G4ZME	4,256-	74-	16-C
G6OI (G4s IEB,XOM,G8ZMP,ops)	104,896-	521-	64-D

Scotland

GM4WEW	20,049-	133-	41-B
GM3CFS	131,494-	430-	86-C

Wales

GW4RHW	233,541-	750-	77-A
GWØAJI	17,945-	159-	37-B

Luxembourg

LX1GQ	223,500-	882-	75-B
LX2EA	11,017-	157-	23-B

Belgium

ON5WL	18,200-	145-	40-A
ON4KST	187,938-	826-	53-B
ON6CR	45,300-	215-	60-B
ON5CZ	13,685-	135-	35-B
ON6JG	954-	40-	9-B
ON4XG	109,296-	445-	69-C
ON6LO	22,040-	198-	29-C
ON6AH (+ON6s MH,QR,VL)	508,101-	1471-	89-D

Netherlands

PA2GER	41,503-	301-	49-A
PA3EOB	18,060-	124-	43-A
PAØDUO	132,076-	354-	106-B
PA3EMN	84,546-	358-	77-B
PAØLOU	211,169-	623-	97-C
PA3CWL	200,100-	641-	92-C
PA3BTH	58,725-	235-	75-C
PAØPUR	56,538-	269-	54-C
PAØVLA	54,471-	259-	67-C
PA3BNT	10,105-	69-	43-C
PA3DHR	8,844-	110-	22-C
PA3BNH	4,264-	54-	26-C
PA3DKX	3,925-	41-	25-C
PA3AMA	1,060-	24-	10-C
PAØKHS (+PE1LBX,PA3s ADJ,DQW, ENJ,EYZ,PAØs NZH,TGA)	418,676-	2056-	47-D

ZONE 28

Federal Republic of Germany

DL6FBL/A (NF1T,op)	639,727-	1609-	121-A
DF2RG	16,506-	135-	42-A
DL8PC	895,832-	1678-	136-B
DL2BAY	32,850-	346-	25-B
DK5KJ	6,720-	121-	24-B
DH9OAG/M	630-	31-	7-B
DL1VJ/A	551,616-	1112-	136-C
DL4BBO	541,347-	1319-	111-C
DJØIF	99,562-	539-	67-C
DL2OBF	66,220-	441-	55-C
DK8KC	48,674-	277-	55-C
DL1TH	32,572-	274-	34-C
DL6LBB	25,164-	165-	54-C
DL4GBR	9,334-	119-	26-C
DF3QN	8,880-	133-	30-C
DL3HAH (+DL1HBT,DL3HCY)	520,300-	1300-	110-D

Hungary

HA5PP	1,067,520-	2091-	139-A
HA6OI	414,184-	1200-	92-A
HAØIT	326,819-	1109-	103-A
HA5HH	162,770-	703-	82-A
HA3NU	62,784-	257-	72-A
HA7ZT/2	10,640-	138-	28-A
HA5NP	954,912-	1741-	147-B
HA8XX	169,120-	561-	80-B
HAØMM	1,266,264-	2108-	172-C
HA1XY	340,092-	942-	108-C
HA5LZ	326,900-	725-	140-C
HA7UI	257,697-	867-	99-C
HA8JP	225,192-	750-	88-C
HA5KF/1	138,776-	485-	83-C
HA6NL	105,840-	801-	40-C
HA5BA	39,200-	256-	56-C
HAØDD	38,704-	200-	59-C
HA6VA	35,322-	204-	58-C
HAØLG	25,350-	277-	26-C
HA5MM	20,358-	174-	39-C
HA3GO	17,616-	231-	24-C
HG1S (HA1s AG,AH,DAC,DAE,TD, TJ,SV,ops)	2,359,104-	3539-	192-D
HG9R (HA4XX,HA9s OA,PP,RG,RP, RU,ops)	1,438,320-	2692-	156-D
HA5KKC (HA5s KP,LV,MA,MD,MO, OG,ops)	705,775-	1863-	109-D
HG6V (+ops)	621,150-	1557-	123-D
HA5KBM (+ops)	596,965-	1415-	115-D
HA8KZC (HA8s UB,XF,ZC,YT7KW, YU7s DD,EU,WW,ops)	451,647-	1508-	107-D
HA1KRR (HA1s DRM,DRR,XO,XU, ZN,ZZ,ops)	439,816-	1303-	104-D
HA3KNA (HA3s FO,NS,NU,OU,OV,ops)	424,664-	1267-	109-D
HA8KVK (+HA8VK)	331,379-	968-	107-D
HA6KNX (+ops)	66,267-	563-	37-D
HA5KDB (HA5s BBC,MY,ops)	46,893-	314-	49-D
HA9KSF (HA9s AR,SU,ops)	9,728-	92-	38-D

Switzerland

HB9DLU	44,296-	317-	49-B
HB9DX	34,944-	246-	52-C
HB9QA	12,048-	121-	48-C
HB9DFY (+HE9WIV)	158,166-	546-	101-D

Liechtenstein

HBØ/DL1SBF	9,483-	105-	29-C

Italy

IO2QMU	131,670-	484-	90-A
IK2JEX	40,598-	251-	53-A
IK6HJW	26,286-	268-	39-A
IKØLLK	14,313-	162-	39-A
I4UFH	709,517-	1649-	107-B
IOØKHP	76,834-	349-	82-B
I8SAT	70,460-	373-	52-B
IK3HMD	54,912-	289-	64-B
IKØDWN	44,649-	397-	41-B
I4CSP	20,874-	183-	49-B
IN3XUG	9,350-	84-	34-B
IA5PLB	8,960-	115-	35-B
IO8RFD (I8RFD,op)	270,952-	1082-	88-C
IK2GSN	148,608-	1072-	43-C
IØZUT	108,478-	413-	73-C
I1XPQ	105,193-	475-	73-C
IK8EJN	68,742-	266-	67-C
IA5KBA	60,316-	695-	68-C
IKØADY	1,278-	51-	9-C
I1VTX	420-	30-	7-C
IK2CFH (+I2VXJ,IK2s BGD,EGL)	645,400-	1739-	100-D
IO6BOB (+I6BQI,IK6IMZ)	293,447-	956-	103-D

Sardinia

ISØLYN	10,692-	93-	44-A
ISØOMH	49,445-	389-	55-C

Bulgaria

LZ2KSQ (LZ1F-156,op)	878,695-	1677-	155-A
LZ1KNP	75,700-	476-	50-A
LZ1VA	49,870-	206-	65-A
LZ5A	575,740-	1315-	110-B
LZ2WA	374,880-	1129-	88-B
LZ2QV	103,761-	544-	81-B
LZ2KSB	171,990-	634-	98-C
LZ1TA	119,188-	482-	83-C
LZ1IT	26,793-	350-	39-C
LZ1PJ	55-	5-	5-C
LZ9A (LZ2s CC,DF,GR,HE,PO, VE1BNN,ops)	1,740,272-	2665-	184-D
LZ1KVF (LZ1Cs 75,94,187,ops)	85,280-	520-	65-D
LZ1KAP (+ops)	684-	40-	6-D

Austria

OE1TKW	16,779-	114-	47-A
OE/DL2DN	4,726-	53-	34-A

Czechoslovakia

OK1VD	587,520-	1332-	128-A
OK2RU	442,496-	1019-	128-A
OK1XW	186,270-	628-	105-A
OK2PGT	102,598-	443-	86-A
OK1CK	101,024-	456-	77-A
OK1KZ	80,036-	409-	68-A
OK1OFM	73,392-	368-	66-A
OK3CDZ	48,678-	306-	57-A
OK3TEW	32,283-	211-	51-A
OK1MHI	12,098-	85-	46-A
OK2BHQ	8,085-	97-	21-A
OK2PDT	3,452-	110-	19-A
OK3TIR	42,408-	311-	36-B
OK3CXS	29,230-	263-	37-B
OK1DKS	23,549-	178-	47-B
OK3CTX	18,060-	148-	43-B
OK3YK	17,214-	171-	38-B
OK1AJY	8,734-	117-	22-B
OK2BTC	1,760-	35-	11-B
OK2BXD	612-	17-	12-B
OK3KAG	522,144-	1189-	126-C
OK2PZW	288,510-	811-	118-C
OK3FON	155,288-	432-	94-C
OK3ZWX	134,936-	452-	101-C
OK2PCF	119,000-	485-	85-C
OK1MNV	108,320-	437-	80-C
OK1TW	93,659-	333-	73-C
OK3YCA	93,388-	352-	74-C
OK2HI	77,526-	333-	73-C
OK3CEL	58,616-	300-	68-C
OK1FFU	52,326-	307-	54-C
OK3CVF	49,610-	296-	55-C
OK2QX	44,484-	171-	66-C
OK1MKU	32,830-	206-	49-C
OK1DVK	25,872-	122-	56-C
OK1DRR	23,717-	175-	37-C
OK1FGS	21,856-	181-	32-C
OK1MIZ	18,522-	191-	42-C
OK3TAY	17,894-	257-	46-C
OK1AYU	9,050-	78-	25-C
OK1FCA	7,440-	84-	24-C
OK1DZJ	4,354-	121-	14-C
OK3CDN	2,408-	80-	14-C
OK3TUM	1,595-	67-	11-C
OL8CVU	1,428-	66-	12-C
OK1DWJ	1,020-	41-	12-C
OK1DSA	913-	70-	11-C
OK2PKX	810-	41-	10-C
OK2ON	756-	36-	9-C
OK1AQW	650-	14-	13-C
OL9CSW	180-	19-	6-C
OK1DZD	40-	9-	1-C
OK5R (OK1s ADM,ADS,ALW,AWZ,ops)	1,530,252-	2424-	162-D
OK1KSO (OK1s AEZ,AII,AMF,JJB, WT,ops)	738,585-	1415-	135-D
OK3KEE (OK3s CTL,MB,YEC,ops)	394,464-	1040-	112-D
OK1KLV (OK1s ADF,FDT,ops)	283,680-	931-	96-D
OK1ORA (OK1s AYD,-2030-2231Ø,ops)	186,534-	679-	86-D
OK2KLI (+ops)	184,368-	593-	92-D
OK1KDZ/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

SP9JPA	60,912-	308-	72-A
SP9BRP	37,459-	272-	47-A
SP9MRM/A	19,266-	189-	38-A
SP9ADV	16,368-	147-	44-A
SP6CZ	74,734-	271-	86-B
SP6DVP	55,755-	250-	63-B
SP9EMQ	25,607-	278-	29-B
SP3IBS	13,244-	110-	43-B
SP3DIK	10,773-	104-	27-B
SP9AVZ	7,695-	151-	19-B
SP3JHY	1,394-	62-	19-B
SP9HZF	756-	58-	7-B
SP9BBH	81,130-	325-	70-C
SP3BGD/8	42,822-	295-	54-C
SP5JTR	33,858-	165-	54-C
SP1AEN	32,340-	311-	28-C
SP8FNA	23,460-	133-	68-C
SPØZFJ (SP2FAP,op)	11,716-	145-	29-C
SP6BEN	10,440-	142-	18-C
SP5JXK	9,744-	142-	24-C
SP6BFK	3,638-	73-	34-C
SP4AVG	2,751-	55-	21-C
SP2JGK	2,590-	141-	10-C
SP9AKD	2,004-	167-	12-C
SP3LPR	261-	29-	9-C
SP5KVW (SP5s MXZ,OAU,ops)	575,488-	1274-	128-D
SP5PBE (SP5s ANJ,ELA,ops)	214,176-	858-	96-D
SP3PLD (SP3s IBM,NYS,ops)	195,942-	582-	102-D
SP2KFV (+ops)	55,404-	350-	54-D

Greece

OK1RI/SV	468,906-	1511-	93-B
J41NA (SV1NA,op)	50,826-	411-	43-C

German Democratic Republic

Y35VM	480,760-	991-	136-A
Y57WG	453,876-	1195-	109-A
Y25TO	348,705-	855-	123-A
Y53ED	321,566-	931-	103-A
Y21VF/A	307,581-	918-	111-A
Y41JH	290,000-	835-	116-A
Y55UG	256,414-	831-	106-A
Y59UJ	165,282-	634-	78-A
Y21QI/P	152,448-	601-	96-A
Y27FN	152,387-	556-	97-A
Y32PI/P	150,300-	551-	100-A
Y83XN	140,519-	649-	83-A
Y42HA/P	135,700-	578-	92-A
Y31EM	119,868-	468-	84-A
Y36RG	108,669-	400-	89-A
Y21WI	106,622-	414-	89-A
Y46IF	103,608-	571-	72-A
Y22WK	86,700-	535-	75-A
Y25PE	51,989-	366-	49-A
Y43QF	48,766-	293-	74-A
Y24SH/A	47,256-	258-	66-A
Y67UL	42,280-	243-	56-A
Y32WF	35,624-	219-	61-A
Y27BG/A	31,671-	176-	69-A
Y41PG	27,170-	174-	55-A
Y61XM	14,096-	100-	38-A
Y26JD	14,012-	208-	31-A
Y22HF	13,642-	119-	38-A
Y37EO	11,690-	115-	35-A
Y25KF	11,160-	168-	36-A
Y23CM	10,793-	75-	43-A
Y87VL	10,388-	87-	28-A
Y25VD	9,042-	134-	33-A

Y26WM 8,736- 68- 42-A
Y27AL/A 7,511- 69- 37-A
Y31NJ 5,880- 74- 28-A
Y32KI 3,888- 50- 36-A
Y54ZI 3,808- 68- 28-A
Y26IL/A 3,380- 32- 26-A
Y34OL 2,706- 58- 22-A
Y23KF 2,304- 50- 16-A
Y24YH 2,142- 29- 18-A
Y25MO 2,128- 75- 19-A
Y44WA/P 1,836- 83- 12-A
Y22AN 376- 35- 8-A
Y25II 322- 36- 7-A
Y22XF 256- 20- 8-A
Y34OL/A 135- 13- 9-A
Y23XF 105- 13- 7-A
Y22EK 334,950- 855- 105-B
Y22YD 211,692- 251- 92-B
Y54TA 157,688- 750- 92-B
Y48HL 139,410- 581- 90-B
Y38YK 94,752- 371- 84-B
Y22VI 46,128- 304- 62-B
Y25KA 25,824- 205- 48-B
Y78QL 20,832- 119- 62-B
Y46ZC 18,850- 377- 50-B
Y22RK 14,703- 145- 39-B
Y25ML 10,197- 129- 33-B
Y23TN/A 10,064- 123- 37-B
Y51QO 10,036- 159- 26-B
Y25TI 5,568- 74- 29-B
Y44TN 3,738- 56- 21-B
Y43XE/P 3,276- 63- 18-B
Y53ZL 2,376- 39- 24-B
Y38WE 1,116- 44- 12-B
Y21MB/P 154- 14- 7-B
Y51XE 428,458- 1121- 118-C
Y43VL 138,112- 342- 104-C
Y28QH/A 119,647- 636- 73-C
Y25SG 101,101- 364- 91-C
Y56ZA 97,836- 327- 93-C
Y22WF 87,885- 1395- 63-C
Y56WG 71,214- 308- 78-C
Y24TG 37,450- 273- 50-C
Y37ZE 35,949- 200- 69-C
Y34RG/P 21,015- 179- 45-C
Y51XG/P 19,504- 151- 46-C
Y31JA 15,272- 86- 46-C
Y23TL 14,580- 112- 36-C
Y25TG 14,150- 93- 50-C
Y21CL 13,107- 85- 51-C
Y39SM 9,744- 132- 21-C
Y77YH 7,975- 106- 29-C
Y23GB 5,225- 51- 25-C
Y36VM 4,680- 50- 36-C
Y41UF/P 2,772- 54- 22-C
Y42WB 2,365- 47- 11-C
Y27BN 2,064- 67- 12-C
Y56SG 1,344- 32- 16-C
Y25XA 640- 40- 10-C
Y23LM 228- 18- 6-C
Y47YM 102- 13- 7-C
Y23FM 90- 11- 6-C
Y49ZL 20- 2- 2-C
Y35L (Y26IL,Y33s UL,ZL,ops) 1,143,445- 2018- 163-D
Y38I (Y44s TI,UI,XI,ops) 1,050,979- 2025- 139-D
Y37I (Y23FI,Y25KI,Y62YI,ops) 569,240- 1307- 133-D
Y52CG (Y22FG,Y52ZG,ops) 432,460- 1042- 140-D
Y39CH (Y39s OH,SH,ZH,ops) 391,376- 971- 122-D
Y43CO (Y21RO,Y22XO,Y43GO,ops) 372,960- 1082- 120-D
Y32CN (Y32s VN,WN,YN,ops) 368,875- 907- 125-D
Y33CC (Y21BC,Y22IC,Y33VC,ops) 313,375- 957- 109-D
Y47CN (Y25ZN,Y47s YN,ZN,ops) 262,864- 826- 112-D
Y53CN/P (Y53s UN,XN,ops) 252,945- 828- 105-D
Y33CJ/P (Y33s PJ,UJ,Y45RJ,ops) 198,996- 658- 103-D
Y88SOP (Y21s EA,FA,Y25JA, Y42DA,ops) 175,119- 662- 93-D
Y48CJ (Y23RJ,Y48s RJ,SJ,ops) 94,496- 464- 82-D
Y58CH (Y58s UH,WH,ZH,ops) 64,159- 299- 83-D
Y77CN (Y77s TN,ZN,ops) 55,862- 364- 62-D
Y66CA (Y66s WA,VA,ops) 19,866- 156- 43-D
Y31CE (Y24BE,Y31UE,ops) 14,582- 145- 46-D
Y54CE (Y54s SE,ZE,-68-E,ops) 11,384- 246- 49-D

Romania

YO8KOC 233,172- 562- 153-A
YO3NL 76,752- 332- 82-A
YO7BGA 24,433- 181- 53-A
YO9CBZ 17,976- 168- 42-A
YO4AAC 6,475- 111- 25-A
YO9FBB 923- 31- 13-A
YO6VZ 39,122- 291- 46-B
YO6CFB 28,946- 172- 41-B
YO2BZV 14,586- 135- 39-B
YO9AHX 9,950- 138- 25-B
YO2BZ 7,900- 118- 25-B
YO9BVG 7,781- 94- 31-B
YO9CSM 2,880- 75- 18-B
YO9HD 1,130- 61- 10-B
YO5KAQ 833- 53- 21-B
YO3FGO 253- 20- 11-B
YO3DCO 100- 7- 4-B
YO9CZW 95- 11- 5-B
YO4ZF 75,229- 342- 77-C
YO3AAQ 34,348- 189- 62-C
YO4BRD 31,278- 300- 38-C
YO4BQV 18,824- 240- 26-C
YO9DAF 7,915- 141- 15-C
YO5ALH 7,847- 121- 19-C
YO4ASD 7,580- 109- 20-C
YO8RL 4,265- 78- 27-C
YO5COJ 1,512- 117- 6-C
YO3BDP 1,320- 17- 10-C
YO2BKK 138- 34- 3-C
YO6BTY 40- 8- 5-C
YO0KJJ (YO2s ABW,ADQ,BP,GL,ops) 145,320- 563- 84-D

Yugoslavia

YT2ER 157,113- 505- 99-A
YU1RA 64,740- 312- 65-A
YZ2S 43,860- 300- 43-A
YU2CAH 20,580- 100- 35-A
4N4A (YU4EU,op) 1,246,185- 2162- 153-B
YU3HR 588,200- 1552- 100-B
YU7FT 66,576- 312- 76-B
YU7SF 145,065- 499- 95-C
YU1BM 97,179- 410- 87-C
YT3FM 89,644- 402- 73-C
YU1AT 55,796- 321- 58-C
YU5GX 53,341- 367- 41-C
YU7KM 45,705- 293- 55-C
4N2V (+ops) 496,674- 1248- 123-D
4N4B (YU4s DU,IS,ops) 338,611- 1105- 91-D
YU2W (YT2s FI,GW,YZ2ABX,ops) 92,694- 591- 42-D
4N2Y (+ops) 83,860- 362- 70-D

ZONE 29

Kaliningrad

UZ2FWN (UA2s DC,-125-10,ops) 9,884- 145- 28-D

European Russian RSFSR

UA3RAR 703,428- 1374- 132-A
UA3SBW 323,154- 810- 117-A
RW3AU 288,424- 672- 124-A
UA1ANA 120,129- 541- 69-A
UZ6HR 102,238- 456- 74-A
UW3DW 78,070- 385- 74-A
UA3RA 76,370- 324- 70-A
RA3VA 71,196- 345- 68-A
UV6LIX 43,776- 227- 48-A
RW3AN 37,791- 295- 39-A
UA4ANZ 32,912- 146- 68-A
UA3MDV 27,840- 149- 60-A
UA3RAJ 25,948- 377- 26-A
UZ3ZYD 12,816- 156- 24-A
UA3QBX 4,131- 77- 17-A
UA3RNI 3,075- 77- 15-A
UA3PNN 440- 23- 8-A
UA6ADC 490,587- 1143- 129-B
UA4UBC 218,564- 727- 101-B
RW3DW 172,900- 554- 95-B
RA4CC 172,370- 489- 110-B
UA4CO 118,203- 388- 93-B
UW3RR 114,810- 429- 86-B
UA4NC 97,155- 367- 85-B
UA6LF 91,293- 362- 71-B
UA6BPJ 81,900- 436- 63-B
UA3PP 70,505- 393- 59-B
RA3RQT 69,650- 341- 70-B
RA3DR 48,380- 265- 59-B
UW1AE 46,530- 246- 66-B
UW3TY 28,710- 259- 29-B
UA3ZU 26,736- 200- 48-B
RA3ZH 25,056- 728- 54-B
UA3TN 12,742- 73- 46-B
UW6LO 12,012- 149- 28-B
UA6ED 3,856- 83- 16-B
UA6PCH 3,634- 54- 23-B
UA3RMO 1,342- 40- 11-B
UW3AA 691,460- 1420- 140-C
UA3RF 442,335- 1134- 111-C
RA6LM 231,895- 716- 95-C
RA3ZC 203,852- 643- 113-C
UA4YCJ 202,920- 680- 95-C
RW3AX 158,576- 626- 88-C
UA6BPM 147,562- 581- 89-C
UA4NEJ 122,106- 404- 94-C
UA3YAO 112,094- 457- 82-C
RZ3DZ 105,924- 364- 64-C
UA4AHA 102,258- 477- 78-C
RA3RN 98,800- 280- 95-C
RW3AH 83,810- 465- 58-C
UA6ANZ 82,023- 513- 57-C
UA3JD 58,240- 278- 70-C
UA3DPX 56,256- 304- 64-C
UA4SSS 55,047- 408- 41-C
UA4AO 52,710- 226- 70-C
RA1CT 45,648- 321- 48-C
UV6LDR 42,336- 260- 49-C
UA3IIA 34,068- 288- 34-C
RA6LBP 29,152- 227- 32-C
UA6YHR 25,536- 97- 64-C
UA4NGR 25,524- 245- 36-C
UA3TU 25,456- 86- 86-C
UA4FAT 19,672- 153- 28-C
RA4PO 16,575- 130- 39-C
UV6HFK 7,812- 105- 18-C
UA3TAM 5,520- 98- 20-C
UA3DCX 5,375- 75- 25-C
RA4CD 4,768- 64- 16-C
RA3PP 3,528- 114- 14-C
UA6HSV 588- 46- 7-C
UW4CN 165- 11- 3-C
4J4F (UA4s FAO,FAY,FBG,FDS,FEF, -148-669,-148-667,ops) 1,703,160- 2887- 166-D
UZ6LWZ (UB5ITW,RA6LRT,UA6s LV,-150-1068,-150-1103,-150-1240, -150-1336,ops) 962,861- 1491- 183-D
UZ6LWA (UA6s LA,LCT,LD,LDX,UW6s LZ,NV,ops) 798,600- 1600- 132-D
UZ4AWB (RA4AK,UA4-156-986,ops) 709,284- 402- 84-D
UZ3AXH (+ops) 408,580- 932- 124-D
R3EKM (RA3EA,UA3s EDQ,-147-338, -147-350,ops) 398,301- 1123- 103-D
UZ1TWB (RA1TE,UA1s UM,-144-380, ops) 369,183- 1056- 109-D
UZ6LXZ (RA6LVA,UA6LRP,UV6LGP, ops) 351,495- 956- 107-D
UZ6LXM (UW6OE,UV6LIP UA6-150-945,ops) 202,658- 562- 107-D
UZ4FWZ (RA4FET,UA4s FEI,FEU,ops) 187,996- 746- 86-D
UZ4LWZ (RA4LAG,UA4s LBQ,LCQ,ops) 176,088- 614- 92-D
UZ3PXJ (RA3PHQ,UA3s PIG,PTN,ops) 167,250- 666- 75-D
UZ4YWY (+ops) 45,145- 577- 77-D
UZ6HXK (UA6s-106-1838,-106-1857, -106-1867,ops) 144,272- 645- 71-D
UZ6EWF (UA6s-109-414,-109-434, UA1-169-33/U6E,ops) 112,916- 633- 68-D
UZ3AWC (+ops) 76,309- 736- 103-D
UZ3YWB (+ops) 62,511- 287- 67-D
UZ3RWZ (RA3s RQG,RRG, UA3-157-665,ops) 59,785- 342- 55-D
UZ6AYN (UA6s AH,-101-1002,ops) 49,808- 374- 44-D
UZ4AXQ (UA4s-156-80,-156-876, -156-878,ops) 45,100- 234- 55-D
UZ4FWH (+ops) 44,590- 438- 35-D
UZ3DWV (RA3DLQ,UA3-142-998,ops) 43,432- 209- 61-D
UZ3TYE 41,526- 275- 54-D
UZ3DYF (+ops) 11,704- 148- 22-D
UZ3TWW (UA3TFY,UW3TX,ops) 9,828- 54- 54-D

Ukraine

RB5IM 1,087,243- 1516- 197-A
RB5IA 412,167- 961- 133-A
UB5NQ 354,850- 1209- 94-A
RB5IIU 195,716- 578- 85-A
RB4IRO 137,531- 565- 83-A
UY5TE 127,840- 560- 80-A
UB5EPV 119,250- 438- 90-A
UB4AR 108,880- 458- 80-A
UB5IAL 91,988- 516- 61-A
UB5IDG 62,558- 292- 62-A
RB5LTZ 57,176- 316- 56-A
UB4HYB 2,758- 81- 14-A
UB5CCP 2,314- 55- 13-A
RB5MT 1,015,208- 1733- 152-B
RB5DX 877,189- 1866- 127-B
RB4MV 178,696- 776- 56-B
RB5VT 135,080- 499- 88-B
UB5TCJ 85,045- 368- 73-B
UB5GBU 47,968- 354- 48-B
UB4JO 46,787- 279- 59-B
UB4JDM 43,804- 315- 47-B
RB5IQ 38,136- 296- 42-B
UT5RY 30,624- 323- 32-B
RB5TK/A 29,250- 227- 45-B
RB4JF 25,172- 152- 62-B
UB5VEF 15,119- 155- 29-B
RB5RA 13,950- 192- 25-B
RB5AGV 10,166- 150- 23-B
UB4JDX 9,486- 241- 18-B
UB5FHU 3,344- 59- 16-B
UB5ZHQ 40- 10- 4-B
UB5ZME 24- 6- 4-B
UB5QKC 453,050- 967- 130-C
UB5CDX 240,620- 657- 106-C
UB5IAN 188,976- 624- 93-C
UB5PAG 180,948- 610- 102-C
UB5LUY 161,862- 424- 106-C
UB5MLP 150,071- 446- 103-C
UB5ITU 140,154- 582- 71-C
UT5UCO 115,805- 359- 95-C
UB4FWC (UB5FBV,op) 115,520- 554- 76-C
UB5BZ 107,185- 391- 85-C
RB5IV 106,568- 432- 88-C
UB5TN 84,906- 299- 89-C
UB5WAB 78,913- 308- 73-C
UB4QXI (UB5QMO,op) 77,376- 374- 62-C
UB5IKN 74,844- 334- 66-C
UB5EEP 73,645- 314- 71-C
UB5EF 68,544- 326- 72-C
UB5IHQ 66,953- 333- 71-C
UB5ZFQ 61,992- 307- 54-C
UB5IF 55,685- 442- 37-C
UB5WDD 47,656- 320- 46-C
RB5WR 46,410- 346- 42-C
UB5DW 46,088- 179- 56-C
RB5ZB 44,286- 260- 61-C
UB5DBJ 42,924- 278- 49-C
UB5JS 35,160- 231- 40-C
UB5MMP 30,960- 160- 60-C
UB5AJP 23,436- 181- 42-C
UB3JM 22,410- 230- 30-C
RB5IOV 19,372- 172- 29-C
RB5VB 18,480- 190- 24-C
UB4MPY 17,836- 169- 28-C
RB5HM 14,483- 305- 64-C
UB5UHD 14,471- 131- 29-C
UB5MQS 12,992- 102- 32-C
UB5JNW 12,852- 140- 27-C
RB5VW 9,936- 114- 23-C
UB5VK 9,650- 140- 25-C
UB4LCB 9,234- 131- 27-C
UB5QJN 7,665- 83- 21-C
UB3MA 5,025- 118- 25-C
UB4MTJ 2,067- 37- 13-C
UT5UKE 1,050- 36- 15-C
UB5CMD 504- 39- 8-C
UB3IWA (UB5s IFZ,IML,IOK,IPP,ops) 1,494,920- 2012- 190-D
UB4CYT (RB5s CB,CQ,CW, UB5s -060-532,-060-936,ops) 1,022,968- 2065- 142-D
UT4UXW (UT4UZ,UT5s UGR, -186-152,ops) 900,674- 1920- 146-D
UB4MZL (RB4s MB,ML,UB4MAH, UB5-059-116,ops) 443,160- 1061- 120-D
UB4AWW (UB5s AEM,AFM,ops) 366,792- 1037- 116-D
UB4WZA (UB5s WCX,-068-997, -068-998,ops) 280,675- 854- 32-D
UT4JWB (+ops) 256,410- 866- 90-D
UB4FXX (UB5s FJA,-070-321,-070-721, ops) 194,832- 703- 99-D
UB4IXZ (+ops) 160,188- 589- 84-D
UB4IWI (UB4IRI,UB5s INT, -073-4328,ops) 92,820- 531- 52-D
UB4WZB (UB5s-068-1013,-068-1078, ops) 45,155- 289- 55-D
UB4EZI (+ops) 17,430- 166- 35-D
UB4IWC 585- 23- 9-D

Byelorussia

UC2LAR 197,200- 556- 100-A
UC2OG 46,498- 711- 86-A
UC1AWP 14,498- 249- 22-A
UC2OS 53,527- 647- 90-C
UC2OES 37,856- 223- 52-C
UC2II 5,578- 185- 55-C
UC2AAS 2,940- 52- 15-C
UC2AGT 148- 13- 4-C

Azerbaijan

UD6DFF 59,472- 322- 59-C
UD6DKW 58,744- 295- 56-C
UD7DWZ (+ops) 7,636- 118- 23-D

Georgia

UA3AP/UF5F 94,888- 511- 58-C

Armenia

UG6LQ 287,712- 1068- 72-B

Moldavia

RO4OA 347,606- 1060- 98-C

Lithuania

UP2OU 320,096- 879- 112-A
UP3BA 127,020- 539- 87-A
UP3BH 444,717- 1100- 117-B
UP2ND 55,106- 282- 59-B
UP2BLQ 281,602- 934- 103-C
UP2PAQ 123,587- 502- 83-C
UP3BO 106,260- 298- 115-C
UP2BZ 86,800- 480- 50-C
UP2BKM 11,020- 254- 19-C
UP2FF 6,266- 87- 26-C
UP2BB 3,780- 74- 18-C
UP1BWW (UC2WAO,UP2s BAS,BIJ, BKW,BMW,BO,PX,-038-1052, -038-1162,UP0BA,ops) 1,685,834- 2600- 181-D
UP1BZA (UP2s BIM,-038-1813,ops) 714,015- 1565- 123-D
UP1BZG (UP2s BCO,-283-8439,ops) 619,008- 1392- 124-D

Latvia

UQ1GWB 68,286- 501- 38-B
UQ2GIP 16,575- 118- 39-B
UQ2GLW 9,401- 210- 17-B
UQ2GCV 55,616- 228- 79-C
UQ2GEO 20,265- 157- 35-C
UQ2GHB 6,780- 153- 20-C
UQ2GEC 3,760- 50- 20-C
RQ2GIG 3,228- 123- 12-C
UQ1GWW (RQ2GG,UQ2s GAG,-037-83, -037-116,ops) 1,747,872- 2653- 168-D
UQ0A (UQ2s GID,GKL,GM,ops) 985,906- 2057- 142-D
UQ1GXJ (UQ2s GSG,-037-221, -037-566,ops) 42,952- 268- 52-D

Estonia

UR1RWL 29,000- 465- 40-A
UR2RCU 10,332- 117- 21-A
UR2RJ 4,095- 121- 15-A
UR2RFQ 4,176- 118- 12-B
UR1RXB (UR2RND,op) 86,254- 272- 101-C

ZONE 30

European Russian RSFSR

UA4WEJ	48,837-	342-	47-C
UA4WGR	6,688-	87-	22-C

Asiatic RSFSR

UA9MR	357,840-	712-	126-A
UA9FAR	71,500-	307-	52-A
UA9CBO	65,824-	246-	68-A
UV9CAF	54,340-	266-	44-A
RA9FF	28,868-	241-	28-A
UW9WK	748,650-	1070-	150-B
UA9QA	286,824-	577-	114-B
UA9AKO	254,774-	705-	82-B
UV9FR	30,044-	241-	28-B
UA9ANI	26,220-	211-	30-B
UW9SW	116,100-	354-	75-C
UA9WKO	113,693-	429-	59-C
UA9AMF	104,832-	298-	84-C
UV9WR	84,480-	360-	55-C
UA9FGJ	77,970-	265-	69-C
UA9NN	62,860-	222-	70-C
UA9MEK	873-	23-	9-C
UZ9WWH (RA9s WR,WW,RW9s WA,WW,RV9WA,UA9s WD, WFM,ops)	1,322,908-	1794-	163-D
UZ9FYR (UA9s FAL,FF,FKX,FM,ops)	1,114,210-	1732-	134-D
UZ9CWW (RV9s CBW,CFA,UA9s CDT,CIR,CJK,CPB,UW9s CP, CW,ops)	952,455-	1491-	141-D
UZ9MWA (+ops)	415,502-	948-	103-D
UZ9AWH (UA9s ACA,-165-1256, -165-1841,-165-1843,ops)	357,154-	789-	97-D
UZ9CYP (UA9s CKF,CUA,-154-2105, ops)	352,563-	837-	93-D
UZ9CZM (RA9s CFB,CPQ,UA9COW, ops)	93,380-	359-	58-D

Turkmenistan

RH8AA	9,196-	106-	22-A
RH8AD	19,375-	177-	25-C

Uzbekistan

RI8BT	182,495-	513-	85-A
UI8ZAA	188,496-	522-	88-B
UI9ACP	125,808-	604-	48-C
UI9BWE (RI8BN,UI8s- 053-2007, -053-20 32,ops)	545,100-	1310-	92-D

Tadzhikistan

UJ8JME	11,160-	111-	24-A
UJ8JCM	69,190-	298-	55-B
UJ8JA	324,648-	675-	78-C

Kazakhstan

RL7AC	1,599-	27-	13-A
UL7ACI	76,228-	472-	34-B
RL7AB	900,768-	1515-	132-C
RL7ABK	46,704-	256-	42-C
UL7PHT	2,108-	36-	17-C
RL1P (UL7s PAE,PCZ,PEZ,RL7PKN, RL8s PY,PZ,ops)	2,127,246-	2582-	193-D
UL8LWO (RL8PA, UL7s LEB,LF,FT, -026-708,ops)	581,624-	1094-	116-D
UL8CWW (+ops)	499,485-	1077-	105-D

Kirghizia

UM8MIG	28,110-	266-	30-B

ZONE 31

Asiatic RSFSR

RW9UR	514,320-	998-	120-B
UA9UHL	58,368-	252-	57-C
UA9URF	39,404-	203-	48-C
UZ9YXO (UA9s YIH,YII,YJP,YLU,ops)	455,920-	1000-	105-D
UZ9HYM (+ops)	389,391-	1103-	79-D
UZ9OWD (UA9s-145-168,-145-294, -145-338,UA0-103-554,ops)	311,766-	827-	91-D
UZ9YXI (+ops)	100,510-	602-	38-D

Kazakhstan

RL7FER	72,744-	398-	42-B
RL7JA	61,218-	391-	38-B
UL8GBI	18,202-	113-	38-C
RL7FGL	6,086-	71-	17-C

Kirghizia

UM8MDX	836,740-	1203-	115-B
UM8MZ	42,108-	280-	33-C
UM8MY	8,712-	60-	36-C

ZONE 32

Mongolia

OK1XC/JT	26,774-	262-	22-C

Asiatic RSFSR

UA0SAU	843,320-	1397-	145-A
UA0TO	729,603-	1582-	111-A
UA0ABK	402,311-	936-	91-B
UA0SR	323,304-	1112-	76-B
RA0SU	105,700-	363-	70-B
UA0SME	6,749-	97-	17-B
UA0SG	55,873-	261-	59-C
UA0SV	108-	6-	6-C
UZ0OWS (UA0s OA,OCS,OD,OE, -085-144,ops)	783,216-	1727-	108-D
UZ0WWP (RW0WR,UA0s WCL,WN, ops)	138,531-	535-	61-D
UZ0SXF (UA0s SLT,SNR,ops)	132,486-	460-	71-D

ZONE 33

Asiatic RSFSR

RA0JD	30,141-	159-	51-C
UW0UQ	26,859-	277-	21-C
UZ0QWT (+ops)	399,321-	779-	117-D

ZONE 34

Asiatic RSFSR

RA0FA	425,260-	885-	110-B
UA0NL	52,866-	260-	54-B
UW0LT	1,019,008-	1525-	152-C
UA0FZ	40,656-	217-	48-C
UA0IBB	6,900-	89-	20-C
UZ0CWA (RW0CA,UA0s CCD,CG,CJC, UW0s CA,CN,ops)	475,594-	1152-	98-D

ZONE 35

Asiatic RSFSR

UA0XAK	29,079-	325-	27-B

ZONE 36

Canary Islands

EA8AJI	32,328-	275-	24-B
EA8BIE	125,952-	308-	82-C

ZONE 37

Morocco

CN8FC (WA4UAZ,op)	420,096-	900-	96-C

Portugal

CT1BOP	562,410-	1450-	90-B
CT1BWW	11,088-	87-	33-B
CR2CWT	37,004-	229-	44-C

Spain

EA2CR	9,251-	89-	29-A
EA1GT	139,612-	563-	76-B
EA5CPH	36,252-	190-	53-B
EA5FKQ	32,781-	500-	21-B
EA5JC	26,290-	136-	55-B
EA2AN	23,250-	254-	31-B
EA3FKK	21,476-	262-	26-B
EA5AP	9,990-	72-	37-B
EC3CPT	7,007-	192-	11-B
EA7BYM	4,608-	192-	24-B
EA5EFV	4,031-	42-	29-B
EA3ELM	2,990-	99-	10-B
EA4DMB	2,716-	64-	14-B
EA5AOJ	1,540-	36-	14-B
EA5GFA	8,211-	165-	23-C
ED7CA	7,940-	107-	20-C

Balearic Islands

EA6GP	55,796-	304-	58-A
EA6ZS	728-	31-	8-B

ZONE 39

Jordan

JY9LC	31,520-	172-	40-B

Israel

4X6VJ	107,423-	351-	71-C

Cyprus

5B4MF	1,250,210-	1680-	163-B
C43T (YU1RL,op)	1,649,070-	2356-	146-C

ZONE 41

India

VU2TJW (K3TW,op)	930,088-	1815-	116-A
VU2TTC	60,588-	292-	54-A

ZONE 44

Korea

HL1LW	48,070-	279-	46-A
HL3DE	10,325-	119-	25-C
HL0K (HL1AXK,HL3EAT,HL4CGI,ops)	141,024-	482-	78-D
HL0B (+ops)	134,232-	688-	56-D

Hong Kong

VS6UP	271,400-	754-	92-C

ZONE 45

Japan

JA8RWU	475,092-	960-	108-A
JA1YFG (JE7WBI,op)	226,590-	636-	83-A
JH4UTP	100,018-	303-	86-A
JA0BMS/1	60,966-	275-	54-A
JA1YTD (JH4XKW,op)	47,560-	200-	58-A
JN1AIF	42,594-	157-	62-A
JA6BWH	28,050-	124-	50-A
JA6IP	25,821-	108-	57-A
JA6BIF	24,272-	160-	41-A
JH7BMF	12,960-	86-	36-A
JA0GZ	11,725-	81-	35-A
JA1AAT	2,346-	35-	17-A
JA8HBO	1,808-	29-	16-A
JA1KFX	900-	20-	10-A
JA7DSL	212,135-	611-	77-B
JA0QNJ	140,148-	576-	51-B
JA8NFV	86,037-	363-	51-B
JH1UUT	28,450-	139-	50-B
JA1ASO	22,792-	97-	56-B
JH8DEH	16,470-	125-	30-B
JL3WSL	16,058-	167-	31-B
JA6EFT	13,158-	95-	34-B
JL1MWI	13,048-	108-	28-B
JG1JSY	12,704-	107-	32-B
JA2BEY	12,132-	83-	36-B
JA0AD	9,062-	84-	23-B
JA0AW	6,678-	70-	18-B
JA3SSB	2,774-	44-	19-B
JG7LBN	2,600-	36-	20-B
JH1RMH	2,070-	36-	15-B
JF4UMY	2,034-	31-	18-B
JA3FZI	1,666-	29-	14-B
JF1KWP	1,568-	30-	14-B
JA6QDU	1,428-	22-	14-B
JH6FTJ	1,148-	24-	14-B
JR1GWE	1,134-	19-	14-B
JR3KAH	513-	17-	9-B
JJ2RON	408-	15-	8-B
JH2WHS	238-	12-	7-B
JA0OWR	60-	4-	3-B
JE1TTO	12-	2-	2-B
JA9XTB	5-	1-	1-B
JH7WKQ	822,873-	1017-	177-C
JA7DLE	552,575-	1048-	115-C
JR3BOT	326,076-	822-	87-C
JA9CWJ	289,085-	735-	85-C
JA7YAB (JA1-36363,op)	132,145-	462-	65-C
JK3GAD	90,272-	324-	62-C
JE1AER	73,236-	251-	68-C
JA7FCJ	59,157-	235-	63-C
JH4NMT	50,960-	188-	65-C
JA1WYQ	34,026-	145-	53-C
JA7ASD	23,712-	140-	39-C
JA1GTF	22,140-	117-	45-C
JA9TSI	17,340-	82-	51-C
JA1IFB	16,770-	94-	39-C
JR6IMF	10,792-	134-	19-C
JO1QZI	9,336-	87-	24-C
JE3CYH	7,924-	67-	28-C
JA7MWC	6,669-	57-	27-C
JA1BUN	5,450-	48-	25-C
JF1SQC	4,602-	41-	26-C
JN1MKZ/2	4,599-	65-	21-C
JA8AJE	2,816-	32-	22-C
JR3XEX	1,286-	30-	11-C
JG3EHD	1,040-	22-	10-C
JA9YBA (JA9s OTX,VTA,-1@148,JH9s SSU,VSH,JR8GOU,JR9s CQO,EUZ, JR0BAK,ops)	858,792-	1398-	132-D
JA7YFB (JN1IME,JP1LRT,JQ1NBV, JJ3CNL,JH0ORV,ops)	796,537-	1291-	133-D
JA8YBY (JH8s GFB,PNE,ops)	715,750-	1276-	125-D
JA1YAD (JS1DSC,JH5GHM,JA9UFS, ops)	541,252-	1293-	94-D
JA4YJA (JJ3LJU,JM3ILK,ops)	371,958-	934-	94-D
JA1YXP (JI1UTP,JO1JOZ,JI2DLF,ops)	117,376-	448-	56-D
JE6ZAI (JS1PWV,JF4ETK,ops)	76,555-	347-	61-D
JA2YEF (+JI2LPD)	15,466-	94-	37-D

ZONE 46

Sierra Leone

9L1GG	246-	9-	6-C

ZONE 50

Philippines

4D9RG (DU9RG,op)	610,368-	1312-	96-B
K4YT/DU1	25,239-	123-	47-B
DX9HT (DU6AF,DU9s AA,AU,BI, BK,ops)	204,120-	664-	63-D

ZONE 51

Indonesia

YC9VGJ	119,092-	645-	38-B

ZONE 53

Mayotte

FH5EF	139,536-	400-	72-A

Seychelles

S79D	10,166-	65-	34-A

ZONE 54

Indonesia

YB3ASQ	469,100-	967-	100-B
YC8VFB	103,689-	514-	41-B
YC3OSE	55,800-	322-	36-B
YC8RFF	40,760-	235-	40-B
YC2DGO	37,310-	120-	65-B
YC0USJ	34,100-	228-	31-B
YC2EMV	21,150-	151-	30-B
YC0HSA	15,162-	164-	21-B
YC2BKJ	10,272-	90-	24-B
YC2OK	2,210-	100-	26-B
YC3HCM	197,315-	632-	67-C
YB2FEA	80,388-	316-	59-C
YC5PG	12,864-	110-	24-C
YC2ZES (YD2UPX,op)	1,840-	83-	23-C
YB20AR (YB0s DPO,EMJ,PR,SY, TK,ops)	857,934-	1882-	99-D

Singapore

9V1WU	85,932-	344-	63-B

ZONE 55

Australia

VK8AV	168,508-	356-	103-C
VK4SS	33,605-	117-	65-C
VK4TT	14,520-	123-	24-C

ZONE 58

Australia

VK6AJ	37,221-	141-	57-C

ZONE 59

Australia

VK2APK	313,215-	623-	95-C

ZONE 60

New Zealand

ZL1AIZ	35,746-	128-	61-C

ZONE 61

Hawaiian Islands

WL7E/KH6	13,530-	93-	30-C

ZONE 64

Guam

KH2F	763,392-	1412-	112-B
KH2D	528,717-	922-	119-C

ZONE 90

Minami Torishima

KA2CC	91,740-	425-	44-B

Checklogs

EA3JC, EA3PI, EA4EDU, EA5GEO, GI5TK, GW4BLE, HA3GO, HA9KPZ, HA9TE, HK3JJH, I2BGH, IK0JMS, LA2KD, LA2LV, LA7SI, LA8CE, LA9FFA, LZ1EO, LZ1KAZ, LZ2AG, LZ2KAS, LZ2RS, OH2BKF, OH5FA, OK1US, OK2BBQ, OK3CGT, OZ1DPW, OZ1EUO, OZ1KVB, OZ5PA, PA0TV, PA3BYA, PA3CNI, PA3DCS, PY3CJI, RA1QX, RA2FT, RA3AC, RA3ALA, RA3DIL, RA3DOL, RA3DQP, RA3EF, RA3VR, RA4SAE, RA9UAD, RA9UCP, RB5CL, RB5FF, RB5QNV, RT4UA, RV6AF, RV9UV, RZ3DC, SM0BDS, SM4SET, SM6CDN, SP1CGP, SP2ZT, SP4AS, SP5BNB, SP5ENA, SP6PAX, SP7FQG, SP7NMW, SP9LDI, U0AG, UA0DA, UA0KBC, UA0SLW, UA1ALY, UA1DW, UA2FGO, UA2FU, UA3AB, UA3AUA, UA3DAO, UA3DGA, UA3DTT, UA3DUA, UA3LAR, UA3PB, UA3QAM, UA3ST, UA3VLO, UA4FFB, UA4NCI, UA4QK, UA4YBR, UA4YZ, UA6BJQ, UA6HQH, UA6YW, UA9AKW, UA9CVJ, UB4JZB, UB4LAT, UB4LWA, UB4LWY, UB4QVE, UB4VWN, UB5HA, UB5IMJ, UB5LRS, UB5NCD, UB5QJA, UB5QMD, UB5ZDA, UB5ZFB, UB5ZIZ, UB5ZY, UC1AWZ, UC2AAN, UC2AGO, UF6FFH, UG6GFF, UL7BY, UL8BWW, UL8LYA, UO4OXV, UO5ONV, UP1BXF, UP2BNL, UQ1GXX, UT5UAM/A, UV0BB, UV3DCK, UV3DLP, UV3DN, UV6AY, UW0MF, UW6HS, UW9CZ, UW9JC, UY5GG, UZ0KWH, UZ0QXU, UZ3DZM, UZ3SWL, UZ6HKM, UZ9CWA, UZ9CXA, UZ9FZO, UZ9KWA, W4TMN, WB2AMU, Y21DG, Y21UD, Y22UB, Y23BF, Y23HE/A, Y23HJ, Y24FB, Y24GE, Y25FI, Y25MG, Y26NL, Y26WL, Y31TB/P, Y36XC, Y37XO, Y38ZM, Y43RJ, Y48HL, Y54CO, Y55XH/P, Y69CF, Y72ZL/Y36TG, Y88GST, YO0AQB, YO2AOB, YO2CDX, YO3CFF, YO6FGE, YO8MI, YU3BQ, YU4DNO QST