

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. HG6HQ 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, SB4MF, 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. P40GO mustered 1.5 million points for a strong second place, and HA0MM scored 1.2 million points for third-place world CW. K1TO finished fourth-place world and first-place W/VE followed by WM5G (KR6Y, 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

HG6HQ (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
YQ8A (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
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, K1NG, and Rick, K1IG, 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

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
K3Z0	973,216
VU2TJW (K3TW, op)	930,088
LZ2KSQ (LZ1F-156, op)	878,695
UA0SAU	843,320

Phone

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

CW	
Call	Score
C43T (YU1RL, op)	1,649,070
P40GO	1,509,348
HA0MM	1,266,264
K1TO	1,172,162
WM5G (KR0Y, op)	1,029,240
UW0LT	1,019,008
N2IC/0	969,180
K4VX/0 (KM9P, op)	959,636
K1ZZ	958,958
K8AZ (K8NZ, op)	902,473

Multioperator

Multioperator	
Call	Score
HQ1S	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
K25D	640,120
AD5Q	532,233
WZ4F	466,128
AA4S	463,294
K1EZ	343,988

Phone

Phone	
Call	Score
K4XS	1,043,984
WB9HAD	686,738
NU6S	481,778
NK1F	394,001
K6SVL	263,712
W1GD	258,984
KB8C	145,597
N8ST	135,954
N4MM	103,224
N4UH	102,438

CW

CW	
Call	Score
K1TO	1,172,162
WM5G (KR0Y, op)	1,029,240
N2IC/0	989,180
K4VX/0 (KM9P, op)	959,636
K1ZZ	958,958
K8AZ (KBNZ, op)	902,473
WA6VEF	745,358
K8CC	738,738
WB2Q	679,752
KZ2S	678,951

Multioperator

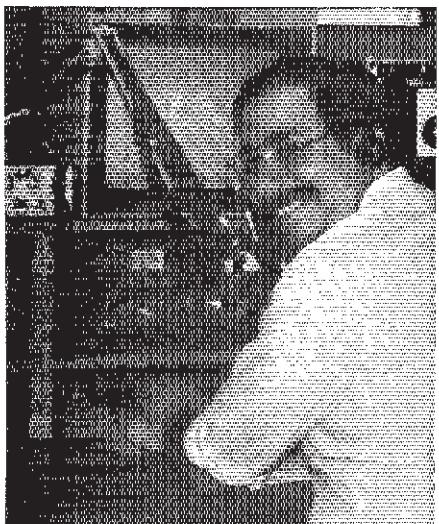
Multioperator	
Call	Score
N5AU	1,636,250
N5RZ	998,244
K6TMB	925,514
NR5M	830,520
KDX	752,082
AA4NC	747,542
KD2SX	735,879
N5EA	675,324
A8D	645,376
K5SD	536,877

(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

(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, JI3GUT, JR4ISF, JF1RPZ.



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



The crew at multioperator station SP5KWW huddle together for a group photo.

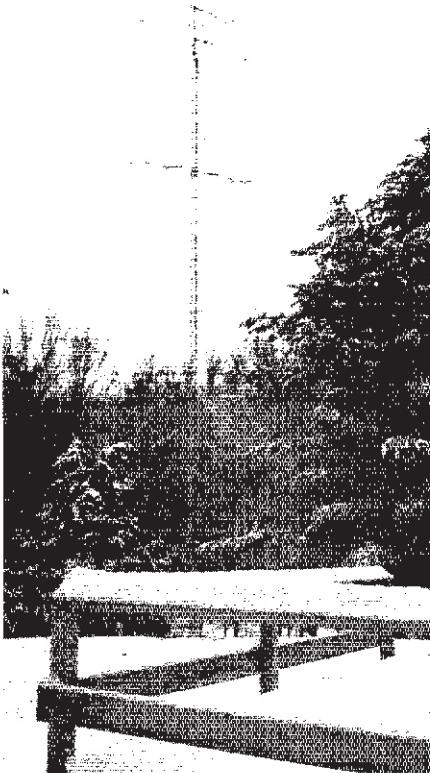
popularity. There was plenty of activity and some great DX (GW4RHW). It is the most fun contest of the year (ON6CR). Not a bad score for my alternate station (down valley). I hope to do better next year (DL6FBL/A). Fantastic contest! Thanks for the pleasure! (LZ1F-156). Great fun having a guest op like 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 (SH3) 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	43,280- 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	
VE6SWL (VE6SP, op)	3,819-	51-	19-A
VE6BF	171,024- 480-	84-C	

British Columbia

VE7IQ	1,651-	37-	13-C
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ZONE 4

Ontario			
VE3OEQ	12,296-	74-	20-A
VESTUL	1,130-	35-	10-B
VE3KP	327,712-	896-	88-C

ZONE 6

W6			
KI6EZ	343,988-	902-	92-A
KS6Q	24-	0-	3-B
K6TMB (+ K3EST, N6IG)	926,514-	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	N2ICB	908,180- 1516- 145-C			
ACBY	270,564- 841- 84-A	ACBS	151,329- 497- 73-C		
NCNF	145,562- 500- 73-A	N6CNV	7,512- 68- 24-C		
NJ6S	481,776- 963- 122-B	WBKEA (+ KGMWM,KV8K,ND0E)			
WA6HRK	6,832- 70- 28-B	Iowa			
WA6VEF	745,353- 1245- 142-C	KF8H	159,276- 519- 78-A		
N1EE/8	15,262- 147- 28-C	W6PPF	9,814- 114- 23-B		
San Diego		Kansas			
WA6UFY	9,802- 92- 29-A	KAVGB	47,640- 225- 60-A		
KI6ZH	37,572- 169- 62-B	WB9YJT	35,045- 216- 43-A		
AA6EE	16,302- 122- 39-C	N6FMR	11,480- 98- 35-C		
San Francisco		Minnesota			
K6LRN	9,775- 83- 25-C	N8HQO	4,774- 57- 22-B		
San Joaquin Valley		WE8K	486- 20- 9-B		
WW6O	71,864- 334- 52-B	KF9T	38,828- 181- 56-C		
Sacramento Valley		Missouri			
N6JM	37,920- 150- 60-A	NS0B	40,430- 150- 66-A		
W7		NV0U	26,650- 182- 45-B		
Arizona		WB8GFV	581- 27- 7-B		
KK7Z	13,805- 128- 27-B	KAVX# (KMGP,op)			
KELL	598,817-1209- 117-C	KM8L	959,838- 1544- 142-C		
Idaho		KO8LX (+ KOQNS)	7,925- 85- 25-C		
WO7Y	82,080- 357- 57-A	68,429- 275- 61-D			
Montana		Nebraska			
KW7I	8,207- 79- 31-B	AK9G	48,350- 287- 60-A		
K57T	145,584- 508- 72-C	K0SCM	61,688- 332- 44-C		
Nevada		WB8SYV	40,725- 283- 45-C		
WB7VWH	4,104- 50- 19-B	K2SW	7,857- 65- 27-C		
NF7P (+ NC7K) 455,220- 1053- 108-D					
Oregon		ZONE 8			
W7YAO	153,621- 379- 101-C	W1			
KA7FEF	10,933- 113- 29-C	Connecticut			
Utah		K1KI	1,440,804- 1846- 184-A		
WE7B	217,487- 799- 79-A	K1CC	1,229,580- 1852- 162-A		
KE7KF	19,600- 229- 25-B	WB9IHH	32,945- 193- 55-A		
Washington		WB6G	17,312- 159- 32-A		
KB7VD	9,990- 77- 30-B	NM1K	8,029- 61- 31-A		
K7TRA	77,280- 295- 69-C	KA1YP	94,736- 420- 67-B		
K7LED (KA7CSE,WA7UVJ,op)	35,144- 210- 46-D	KC8PE	79,624- 370- 52-B		
Zone 7		KA1HGY	48,528- 288- 43-B		
W5		N1FQQ	20,064- 180- 32-B		
Arkansas		K1NCD	16,842- 123- 42-B		
AASCH (+ KB5GQK)	13,394- 94- 37-D	KA1QAS	14,400- 151- 30-B		
Louisiana		KA1MIS	1,062- 64- 9-B		
K2SD	640,120- 1248- 130-A	K1TO	1,172,162- 1730- 157-C		
Mississippi		K1ZZ	958,958- 1539- 154-C		
WA5OYU	75,072- 284- 69-A	W1HUE	48,422- 221- 62-C		
New Mexico		AA2Z	19,040- 139- 34-C		
WS5O	59,730- 277- 57-A	KA1ION (+ NET)	151,938- 526- 69-D		
North Texas		Eastern Massachusetts			
KD5GD	47,112- 230- 52-B	WB2DND	65,144- 218- 68-A		
NSIET	35,504- 176- 56-B	K1CLN	56,050- 215- 59-B		
KG5IH	13,980- 118- 30-B	WA1NPZ	52,896- 262- 57-B		
WMSG (KR8Y,op)	1,028,240- 1480- 180-C	N6EKV1	97,747- 401- 73-C		
NSAU (WN4K3N,KM5X,KY5N,N5TR,		W1AX	23,400- 118- 50-C		
WB5VZL,ops)	1,636,250- 2222- 187-D	KB1YL	14,852- 100- 37-C		
N5RZ (+ W5FO)	998,244- 1594- 162-D	W1OPJ	975- 21- 13-C		
Oklahoma		Maine			
N6CL	25,529- 130- 49-A	K1SA (+ KA1PRD,KY1K,N1FHS,W1QO)	482,611- 287- 67-D		
NSJKN	58,782- 308- 51-B				
N5CG (+ KPSFM)	222,768- 843- 63-D	New Hampshire			
South Texas		NK1F	394,001- 945- 101-B		
WB8BIR	676,791- 1319- 139-A	W1LQZ	10,121- 82- 29-B		
ADSQ	532,233- 1145- 117-A	Rhode Island			
NZ5V	61,185- 299- 65-A	K1PLX	46,704- 261- 58-B		
WA5IYX	43,940- 223- 52-B	KA1GOW	182,186- 602- 71-C		
KGSU	477,798- 1056- 108-C	KD2SX (+ K1NG,K1G)	736,879- 1368- 141-D		
KSMA	46,403- 243- 49-C	Vermont			
NX8G	39,100- 222- 47-C	NO1K	12,635- 119- 35-A		
WS4N	10,725- 76- 33-C	W2			
NR6M (+ K2TNO,K5L2O,KESIV,		Eastern New York			
N5HHS,NT5D,WB5N,DL3YBM)	830,520- 1544- 155-D	KC2QF	202,208- 637- 89-A		
K5DX (+ K5GNI)	752,082- 1244- 163-D	WB2Q	679,752- 1453- 108-C		
NSEA (+ K5GQA,W5ASP,WA6VJ,		K2P2Q	180,240- 495- 60-C		
GW8EOC)	675,324- 1386- 117-D	N2AZS	92,470- 401- 70-C		
WB		K2SHZ	50,762- 144- 61-C		
Colorado		NYC-Long Island			
W6JZV	41,830- 192- 47-A	K82G	69,498- 325- 68-B		
N8ST	135,954- 380- 63-B	N2GC	139,770- 1553- 90-C		
WB6Z	38,250- 198- 51-B	W2GKZ	9,152- 76- 28-C		
K6CS	9,126- 77- 26-B	Northern New Jersey			
WB6WJ	1,830- 28- 15-B	W1GU	258,884- 652- 88-B		
South New Jersey		WB2K	91,287- 329- 63-B		
W2TZ	137,224- 505- 68-C	KE2CG	45,885- 197- 57-B		
W2FTY	70,112- 329- 56-C	KZ2S	678,951- 1291- 123-C		
Western New York		Southern New Jersey			
WA2LB	63,220- 330- 73-A	WA2LB			
KB2BF	66,745- 409- 36-B	N2VW			
N2VW	9,576- 84- 26-B	N2GZL			
W3ELJ	9,534- 100- 21-C	W3ELJ			
Illinois		Western New York			
W9		W2FTY			
Illinois		W9			
WB9HAD	686,738- 1495- 122-B	WB9HAD			
KG9Z	27,475- 263- 35-B	KG9Z			
W9LYA	1,200- 26- 15-B	W9LYA			
N9AEJ	169,380- 544- 85-C	N9AEJ			
K9MMS	81,290- 267- 54-C	K9MMS			
K9SD	(+ K9HWU,KC9AL,WB9SBO,	K9SD			
K9s BPF,FU,W9BH)	538,877- 1081- 121-D	K9s BPF,FU,W9BH)			
NJ9Z (+ NX9O)	32,175- 207- 39-D	NJ9Z (+ NX9O)			
Indiana					
KB8C	145,597- 507- 79-B				
WB9JO	68,048- 259- 66-C				
Wisconsin					
N9C	79,698- 343- 74-A				
WB9EGC	1,725- 267- 5-B				
N9SHB	525,635- 1299- 95-C				
KO9Q	157,082- 549- 71-C				
KB9S	127,205- 483- 65-C				
W9HE	41,818- 180- 58-C				
ZONE 9					
VE					
Maritime-Newfoundland					
VO7AW	35,484- 140- 62-A				
VE1CBF	58,364- 210- 60-B				
ZONE 10					
Mexico					
XE1VV	92,018- 309- 72-A				
ZONE 11					
Bahamas					
WB8KKF/O8A	15,330- 141- 30-B				
Dominican Republic					
H13AMF	44,363- 329- 37-B				
St Vincent and Dependencies					
J87CD	88,580- 341- 52-B				
Virgin Islands					
WB8TBW/KP2	2,800- 38- 20-C				
Aruba					
P49GO	1,509,348- 2098- 146-C				
Costa Rica					
TE8T (TI4SU,op)	58,140- 270- 60-C				
Cayman Islands					
ZF2AH (WA6VNR,op)	26,908- 251- 33-C				
ZONE 12					
Colombia					
HK1LDG	104,858- 852- 27-B				
HK3NTI	16,710- 123- 30-B				
HK3MAH	818- 16- 7-B				
Peru					
OA4ZV	69,584- 327- 44-C				
Venezuela					
YY1C (YV1CP,op)	269,115- 719- 77-B				
YV1DWQ	194,400- 534- 75-B				
4M3B (YV3BKQ,op)	42,032- 250- 37-B				
YV7QP	5,780- 69- 17-C				
ZONE 13					
Brazil					
PP7JCO	17,588- 93- 42-C				
ZONE 14					
Chile					
CE3BFZ	37,596- 196- 39-C				
Argentina					
LU3F (LU6FAZ,op)	585,330- 710- 110-B				
LU6ETB	281,628- 538- 102-B				
LU1FY2	20,304- 190- 37-B				
LS6E (LU6EJP,op)	19,318- 156- 28-B				
LU1YUD	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	35,568- 313- 23-C				
ZONE 16					
Argentina					
LR1V (LU1s VK,VV,LU2YE,LU5UL,	725,392- 1260- 116-D				
LU7VCA,LU8VAB,op)					

ZONE 17

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

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- 16-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- 135- 27-C
F6CCI 4,662- 62- 21-C

HASKKC (HA5s KP,LV,MA,MD,MO,
OG,ops) 705,775- 1863- 109-D
HG8V (+ ops) 621,150- 1587- 123-D
HASKBM (+ ops)

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- 129- 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
OK1FGA 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 758- 36- 9-C
OK1AQW 650- 14- 13-C
OL9CSW 180- 6- 6-C
OK1DZD 40- 1- 1-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
LA8DY 54,717- 280- 61-C

England

GB6AR (G4XKR,ops)
71,332- 297- 68-B
G4OBK 686,964- 1361- 131-C
G3ESF 123,328- 448- 82-C
G4ZFE 57,555- 399- 45-C
G6NKA 16,280- 123- 37-C
G4ZME 4,258- 74- 16-C
G6OI (G4s IEB,XOM,GB2MP,ops)
104,096- 521- 64-D

HAIKRR (HA1s DHR,DRR,XO,XU,
ZN,ZZ,ops) 439,816- 1303- 104-D
HA3KNA (HA3s FO,NS,NQ,OU,OV,ops)
424,664- 1287- 109-D

HA8KVK (I+HABVK)
331,379- 868- 107-D
HA6KNX (+ ops) 66,267- 563- 37-D
HASKOB (HA5s BBC,MY,ops) 46,893- 314- 49-D
HA9KSF (HA9s AF,SU,ops) 9,728- 92- 38-D

Finland

OH8AP (OH6NIO,ops)
387,400- 1040- 104-A
OH8NEV 77,616- 298- 77-A
OH7EU 27,608- 493- 56-A
OH3MP 19,976- 150- 44-A
OH1AA (OH7XE,ops)
627,224- 1361- 104-B
OH8AC (OH6WZ,ops)

Scotland

GM4NEW 20,049- 133- 41-B
GM3CFS 131,494- 430- 88-C

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

OK1KSO (OK1s AEZ,AII,AMF,JJB,
WT,ops) 738,585- 1415- 135-D
OK3KEE (OK3s CTL,MB,YEC,ops)
394,464- 1040- 112-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

GW4RHW 233,541- 750- 77-A
GW0AJI 17,945- 159- 37-B

HB9DLISBF 9,483- 105- 29-C

OK1KLV (OK1s ADF,FDT,ops)
283,680- 931- 96-D
OK1ORA (OK1s AYD,-2030-22310,ops)
186,534- 676- 86-D
OK2KLI (+ ops) 184,368- 593- 92-D

Italy

IO2OMU 131,670- 484- 90-A
IK2JEX 40,598- 251- 53-A
IK6HJW 25,286- 268- 39-A
IK8LLK 14,313- 182- 39-A
I4UFH 709,517- 1649- 107-B
IO0KHP 76,834- 349- 82-B
IB8AT 70,460- 373- 32-B
IK3HMD 54,912- 289- 64-B
IK0DWN 44,549- 397- 41-B
IC4SP 20,874- 183- 49-B
IN3XUG 9,350- 84- 34-B
IASPLB 8,980- 115- 35-B
IO8RFD (I8RFD,ops)

OK2KDS (+ ops) 95,566- 420- 71-D
OK2KMR (+ OK2BQZ)
64,860- 357- 64-D

Belgium

ON5WL 18,200- 145- 40-A
ON4KST 187,938- 828- 53-B
ON6CR 45,300- 215- 60-B
ON5CZ 13,685- 135- 35-B
ON6JG 954- 40- 9-B
ON4XG 109,295- 445- 69-C
ON6LO 22,040- 198- 29-C
ON8AH (+ ON8s MH,QR,VLI)
508,101- 1471- 89-D

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

OK1KLV (OK1s ADF,FDT,ops)
283,680- 931- 96-D
OK2KDS (+ ops) 95,566- 420- 71-D
OK2KMR (+ OK2BQZ)
64,860- 357- 64-D

Denmark

OZ5EV 224,280- 515- 105-B
OZ1LTB 27,210- 246- 30-B
OZ1NN 18,864- 245- 24-B
OZ1KVF 2,040- 63- 12-B
OZ8T 1,245- 25- 16-B
OZ1FEY 780- 19- 12-B
OZ1DYI 340- 16- 10-B
OZ1JVN 84,436- 339- 76-C

IO2OMU 131,670- 484- 90-A
IK2JEX 40,598- 251- 53-A
IK6HJW 25,286- 268- 39-A
IK8LLK 14,313- 182- 39-A
I4UFH 709,517- 1649- 107-B
IO0KHP 76,834- 349- 82-B
IB8AT 70,460- 373- 32-B
IK3HMD 54,912- 289- 64-B
IK0DWN 44,549- 397- 41-B
IC4SP 20,874- 183- 49-B
IN3XUG 9,350- 84- 34-B
IASPLB 8,980- 115- 35-B
IO8RFD (I8RFD,ops)

OK2KDS (+ ops) 95,566- 420- 71-D
OK2KMR (+ OK2BQZ)
64,860- 357- 64-D

Netherlands

PA2GER 41,503- 301- 49-A
PA3EOB 18,060- 124- 43-A
PA0DUO 132,076- 354- 106-B
PA3EMN 84,546- 358- 77-B
PA6LOU 211,169- 623- 97-C
PA3CWL 200,100- 641- 92-C
PA3BTH 58,725- 235- 75-C
PA6PUP 56,538- 269- 54-C
PA6VLA 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- 26-C
PA3AMA 1,060- 24- 10-C

PA0KHS (+ PE1LBX,PA3s ADJ,DQW,
ENJ,EY2,PA6s NZH,TGA)
418,676- 2056- 47-D

IS0LYN 10,692- 93- 44-A
IS0OMH 49,445- 389- 55-C

SP8JFA 60,912- 308- 72-A
SP8SRP 37,459- 272- 47-A
SP9MRM/A 19,266- 189- 38-A
SP9ADV 16,368- 147- 44-A
SP6CZ 74,734- 271- 86-B
SP6WP 55,755- 250- 63-B
SP9EMO 25,607- 279- 29-B
SP3IBS 13,244- 110- 43-B
SP3DTK 10,773- 104- 27-B
SP9AVZ 7,695- 151- 19-B
SP3JHY 1,394- 82- 19-B
SP9HZF 756- 56- 7-B
SP9BBH 81,130- 325- 70-C
SP3BGD/B 42,822- 295- 54-C
SP5JTR 33,858- 165- 54-C
SP1ASN 32,340- 311- 26-C
SP8FNA 23,460- 133- 66-C

Sweden

SM6DJZ 108,382- 337- 86-A
SM5SARL 125,748- 441- 84-B
SM9JQO 21,175- 116- 55-B
SM4CMG 1,611- 89- 9-B
SK6GAW (SM6DED,ops)

PA2GER 41,503- 301- 49-A
PA3EOB 18,060- 124- 43-A
PA0DUO 132,076- 354- 106-B
PA3EMN 84,546- 358- 77-B
PA6LOU 211,169- 623- 97-C
PA3CWL 200,100- 641- 92-C
PA3BTH 58,725- 235- 75-C
PA6PUP 56,538- 269- 54-C
PA6VLA 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- 26-C
PA3AMA 1,060- 24- 10-C

PA2GER 41,503- 301- 49-A
PA3EOB 18,060- 124- 43-A
PA0DUO 132,076- 354- 106-B
PA3EMN 84,546- 358- 77-B
PA6LOU 211,169- 623- 97-C
PA3CWL 200,100- 641- 92-C
PA3BTH 58,725- 235- 75-C
PA6PUP 56,538- 269- 54-C
PA6VLA 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- 26-C
PA3AMA 1,060- 24- 10-C

Zone 19

European Russian RSFSR
RU1DZ 1,301,994- 2012- 171-A
UA1OGH 168,300- 807- 75-A
RA1AA 276,260- 778- 103-B
UI1BA 39,280- 238- 52-B
UA1O1L 31,030- 316- 29-C
UA1ZGD 23,932- 338- 49-C
UA1OCO 15,402- 131- 34-C
UZ1NWP (UA1NAU,UN1s-888-598,
-888-599,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 41,840- 251- 40-C
UZ9CWG (UA9s CA1,CP1,154-894,ops)
231,196- 577- 92-D

Zone 21

Asiatic RSFSR
UA9LU 306,612- 666- 102-C
UZ9JWR (UA9s JR,JX,UA9EV,ops)
912,429-1438- 147-D

Zone 22

Asiatic RSFSR
UA6BEZ 33,768- 322- 24-C

Zone 23

Asiatic RSFSR
UA6QF 187,650- 560- 75-B

Zone 26

Asiatic RSFSR
UZ8KWT 62,455- 433- 58-A

Zone 27

Ireland
EI7DJ (EI1Cs,EI2s GN,GR,EI3EG,
EI5s GM,FK,EIBAU,EI9s FT,GQ,ops)
111,663- 615- 57-D

Zone 28
Federal Republic of Germany

DLEFBL/A (NF1T,ops)

LZ2IKS (LZ1F-156,ops)
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- 91-B
LZ2KSB 171,990- 634- 90-C
LZ1TA 119,188- 482- 83-C
LZ1IT 26,793- 350- 39-C
LZ1PJ 55- 5- 5-C
LZ29A (LZ2s CC,DF,GR,HE,PO,
VE1GNN,CPS)

1,740,272- 2668- 184-D
LZ1KVF (LZ1Cs 75,94,187,ops)
85,280- 520- 65-D
LZ1KAP (+ ops) 664- 40- 6-D

Austria

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

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 73,592- 368- 68-A
OK3CDZ 48,876- 306- 57-A
OK3TEW 32,283- 211- 51-A
OK1MHI 12,098- 85- 46-A
OK2BHQ 8,035- 97- 21-A
OK2PDT 3,452- 110- 19-A
OK3TR 42,408- 311- 36-B
OK3CKS 29,230- 263- 37-B
OK1DKS 23,549- 179- 47-B
OK3CTX 18,060- 148- 43-B
OK3FON 156,268- 432- 94-C
OK3ZWX 134,936- 452- 101-C
OK2PCF 119,000- 485- 85-C
OK1MNV 108,320- 437- 80-C

OK1TW 93,859- 333- 73-C
OK3YCA 93,388- 352- 74-C
OK2HI 77,526- 333- 73-C
OK3CEL 58,816- 300- 68-C

Y35VM 480,760- 991- 136-A
Y57WG 453,876- 1195- 109-A
Y25TO 348,705- 855- 123-A
Y53ED 321,560- 931- 103-A
Y21VFA 307,581- 918- 111-A
Y41JH 290,000- 835- 116-A
Y55UG 256,414- 831- 106-A
Y59UJ 165,282- 634- 78-A
Y21QIP 162,448- 601- 96-A
Y27FN 152,387- 556- 97-A
Y32PU/P 150,300- 551- 100-A
Y83XN 140,519- 649- 83-A
Y42HAP 135,705- 573- 92-A
Y31EM 119,869- 488- 84-A
Y36FG 108,669- 400- 89-A
Y21WI 106,622- 414- 89-A
Y46IF 103,608- 571- 72-A
Y22WK 86,700- 535- 75-A
Y25PE 61,989- 366- 49-A
Y43OF 48,765- 293- 74-A
Y24SH/A 47,256- 258- 68-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
Y28J 51- 38-A
Y28JD 14,012- 208- 31-A
Y28HF 13,642- 119- 38-A
Y37EQ 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	88-	42-A	Y03FGO	253-	20-	11-B	RA3PP	3,528-	114-	14-C	UB5AJP	23,436-	181-	42-C	
Y27ALA	7,511-	69-	37-A	Y03DCO	100-	7-	4-B	UA6HSV	588-	48-	7-C	UB3JM	22,410-	230-	30-C	
Y31NU	5,880-	74-	28-A	Y08CZW	95-	11-	5-B	UW4CN	185-	11-	3-C	RBSIOV	19,372-	172-	29-C	
Y32KI	3,888-	50-	36-A	Y04ZP	75,229-	342-	77-C	4J4F (UA4s FAQ,FAY,FBG,FDS,FEF, -148-669,-148-667,ops)				RBSVB	18,480-	190-	24-C	
Y54ZI	3,808-	68-	28-A	Y03AAQ	34,348-	189-	62-C	I,703,180-2887-				RBSHM	14,483-	305-	64-C	
Y26LJA	3,380-	32-	26-A	Y04BRD	31,278-	303-	36-C	UZ6LWZ (UB5TB,RA0ELT,UA6) LV-150-1860,-150-1103,-150-1248, -150-1336,ops)				UB6UHD	14,471-	131-	29-C	
Y34DL	2,706-	58-	22-A	Y04BQV	18,824-	240-	26-C	Y05DFAF	7,915-	141-	15-C	UB6MQS	12,992-	102-	32-C	
Y23KF	2,304-	50-	18-A	Y05ALH	7,847-	121-	19-C	Y05ALH	7,580-	109-	20-C	UB5JNW	12,852-	140-	27-C	
Y24YH	2,142-	29-	18-A	Y04ASD	7,580-	109-	20-C	Y04ASD	962,861-1491-	1B3-D		RBSVV	9,938-	114-	23-C	
Y25MO	2,128-	75-	19-A	Y08RL	4,255-	78-	27-C	UZ6LWA (UA6s I,L,C,T,LDX,UW6s Lz,UV,ops)				UB5VW	9,650-	140-	25-C	
Y44WAP	1,836-	63-	12-A	Y05COJ	1,512-	117-	6-C	Y08BDP	1,820-	17-	10-C	UB4LCB	9,234-	131-	27-C	
Y22AN	376-	35-	8-A	Y03BZP	1,820-	17-	10-C	Y08BTY	40-	B-	5-C	UB5QJN	7,665-	83-	21-C	
Y25II	322-	36-	7-A	Y02BKK	138-	34-	3-C	Y08KJJ (Y02s ABW,ADQ,BP,GL,ops)	109-	94-D		UB3MA	5,025-	118-	25-C	
Y22XF	256-	20-	8-A	Y08CAH	20,580-	100-	35-A	Y08CAH (Y04s UU4-156-986,ops)	35-A			UB4MTJ	2,067-	37-	13-C	
Y34DLJA	138-	13-	9-A	4N4A (Y04U,op)	145,320-	560-	84-D	Y08CAH (+ ops)				UT5UE	1,050-	38-	15-C	
Y23KF	105-	13-	7-A	Yugoslavia				Y08CAH (+ ops)	408,580-	932-	124-D	UB5CMD	504-	38-	8-C	
Y22YD	211,692-	251-	92-B	YT2ER	157,113-	505-	99-A	Y08CAH (+ ops)	398,301-1123-	103-D		UB3IWA (UB5s IFZ,ML,OKJ,PP,ops)				
Y54TA	167,686-	750-	92-B	YU1RA	64,740-	312-	65-A	YU1RA	1,494,920-1920-	190-D		I,194,920-	1920-	190-D		
Y48HL	139,410-	581-	90-B	Y23T	43,800-	300-	43-A	YU1RA	144-338,			UB4CYT (RB5s CB,CQ,CW,				
Y38YK	94,752-	371-	84-B	YU2CAH	20,580-	100-	35-A	YU1RA	398,183-1056-	109-D		UB5s FJ4,-880-938,ops)				
Y22VI	46,126-	304-	62-B	4N4A (Y04U,op)	145,320-	560-	84-D	YU1RA	1,022,968-2068-	142-D		UB4UXW (UT4UX,UT5UE,UGR, -188-152,ops)				
Y25KA	25,624-	205-	48-B	YU2W (YT2s FL,GW,Y22AIB,ops)				YU1RA	406,574-1920-	146-D		UT4UXW (UT4UX,UT5UE,UGR, -188-152,ops)				
Y78QI	20,832-	119-	62-B	YU2W (YT2s FL,GW,Y22AIB,ops)				YU1RA	202,558-	562-	107-D	UB4MZL (RB4s MB,ML,UB4MAH, UB5s B5-116,ops)				
Y46ZC	18,850-	377-	50-B	YU3HR	588,200-	1852-	100-B	YU1RA	187,996-	746-	88-D	UB4FWZ (RA4FET,UA4F FEI,FEU,ops)				
Y22PK	14,703-	145-	39-B	YU7FT	86,576-	315-	76-B	YU1RA	176,088-	614-	92-D	UZ4LWZ (RA4LAG,UA4s LBQLCQ,ops)				
Y25ML	10,197-	129-	33-B	YU7SF	145,065-	499-	95-C	YU1RA	176,250-	666-	75-D	UZ3PXY (RA3PXY,UA3s PIQ,PTN,ops)				
Y23TNJA	18,064-	123-	37-B	YU1BM	97,179-	410-	87-C	YU1RA	798,600-1600-	132-D		UB4WZA (UB5s VCX,-988-997, -988-998,ops)				
Y51QO	10,036-	159-	26-B	YU3FM	89,444-	402-	73-C	YU1RA	351,495-	956-	107-D	UB4WZA (UB5s VCX,-988-997, -988-998,ops)				
Y25TI	5,566-	74-	29-B	YU1AT	55,795-	321-	58-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y44TN	3,738-	56-	21-B	YU3HR	588,200-	1852-	100-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y43KE/P	3,276-	63-	18-B	YU7FT	86,576-	315-	76-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y53ZL	2,375-	38-	24-B	YU7SF	145,065-	499-	95-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y38WE	1,116-	44-	12-B	YU1BM	97,179-	410-	87-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y21MB/P	154-	14-	7-B	YU3FM	89,444-	402-	73-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y51XE	428,456-	1121-	118-C	YU1AT	55,795-	321-	58-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y43VL	138,112-	342-	104-C	YU3HR	588,200-	1852-	100-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y26OH/A	119,647-	636-	73-C	YU7FT	86,576-	315-	76-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y25SG	101,101-	364-	91-C	YU7SF	145,065-	499-	95-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y562A	97,836-	327-	93-C	YU1BM	97,179-	410-	87-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y22WF	87,885-	1395-	83-C	YU3FM	89,444-	402-	73-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y56WG	71,214-	308-	78-C	YU1AT	55,795-	321-	58-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y24TG	37,450-	273-	50-C	YU3HR	588,200-	1852-	100-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y37ZE	35,949-	200-	69-C	YU7FT	86,576-	315-	76-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y34RG/P	21,015-	179-	45-C	YU7SF	145,065-	499-	95-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y51KG/P	19,504-	151-	46-C	YU1BM	97,179-	410-	87-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y31JA	15,272-	86-	46-C	YU3FM	89,444-	402-	73-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y23TL	14,680-	112-	36-C	YU1AT	55,795-	321-	58-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y25TG	14,150-	93-	50-C	YU3HR	588,200-	1852-	100-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y21CL	13,107-	85-	51-C	YU7FT	86,576-	315-	76-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y39SM	9,744-	132-	21-C	YU7SF	145,065-	499-	95-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y77YH	7,975-	106-	29-C	YU1BM	97,179-	410-	87-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y23GB	5,225-	51-	25-C	YU3FM	89,444-	402-	73-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y36VM	4,680-	50-	38-C	YU1AT	55,795-	321-	58-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y41UF/P	2,772-	54-	22-C	YU3HR	588,200-	1852-	100-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y42WB	2,385-	47-	11-C	YU7FT	86,576-	315-	76-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y27BN	2,064-	67-	12-C	YU7SF	145,065-	499-	95-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y58SG	1,344-	32-	16-C	YU1BM	97,179-	410-	87-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y25XA	640-	40-	10-C	YU3FM	89,444-	402-	73-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y33LM	228-	18-	6-C	YU1AT	55,795-	321-	58-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y47YM	102-	13-	7-C	YU3HR	588,200-	1852-	100-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y23FM	90-	11-	6-C	YU7FT	86,576-	315-	76-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y49ZL	20-	2-	2-C	YU7SF	145,065-	499-	95-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y55LN	1,143,-	445-2018-	163-D	YU1BM	97,179-	410-	87-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y38I	1,050,979-	2025-	139-D	YU3FM	89,444-	402-	73-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y37I	(Y23FL,Y25FL,Y26FL,ops)			YU1AT	55,795-	321-	58-C	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y52CG	508,-	240,-	1307-	133-D	YU3HR	588,200-	1852-	100-B	YU1RA	1,246,185-2162-	153-B		UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)			
Y52CG	432,-	460-	140-D	YU7FT	86,576-	315-	76-B	YU1AT	55,795-	321-	58-C	UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-945,ops)				
Y39CH	(Y39s OH,SH,ZH,ops)			YU4CO	118,203-	388-	93-B	YU1AT	55,795-	321-	58-C	UB4WZ (RA4WZ,UA4s UV6LIP, UA6-150-				

ZONE 30

European Russian RSFSR

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

Asiatic RSFSR

UA8MR 357,840- 712- 126-A
UA8FAR 71,500- 307- 52-A
UA9CBO 65,824- 246- 68-A
UV3CAE 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
UV5FR 30,044- 241- 28-B
UA9AN 26,220- 211- 30-B
UW9SW 118,100- 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 62,880- 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
UZ9PYR (UA9s PAL,FF,FKX,FM,ops)
1,114,210-1732- 134-D
UZ9COW (RV9s CBW,CFA,UA9s
CDT,CR,CJK,CBPU,UW9s CP,
CW,ops) 952,455-1491- 141-D
UZ9MWA (+ops)
415,502- 948- 103-D
UZ9AWH (UA9s ACA-185-1256,
-185-1841,-185-1843,ops)
357,154- 789- 97-D
UZ9CYP (UA9s CKF,CUA-154-2105,
ops) 352,583- 837- 83-D
UZ9CZM (RA9s CFB,CPQ,UA9COW,
ops) 93,380- 359- 58-D

Turkmenistan

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

Uzbekistan

RI8BT 182,495- 513- 85-A
U18ZA 188,496- 522- 88-B
U19ACP 125,808- 604- 48-C
U19BWE (RIIBBN,UI8s-053-2807,
-053-28 32,ops)
545,100-1310- 92-D

Tadzhikistan

U18JME 11,160- 111- 24-A
U18JCM 69,190- 298- 55-B
U18JA 324,648- 675- 78-C

Kazakhstan

RL7AC 1,599- 27- 13-A
UL7ACI 76,226- 472- 34-B
RL7AB 900,768-1515- 132-C
RL7ABK 46,704- 256- 42-C
UL7PH 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
UL8CWV (+ops)
499,485-1077- 105-D

Kirghizia

UM8MIG 28,110- 265- 30-B

ZONE 31

Asiatic RSFSR

RUWUR 514,320- 998- 120-B
UA9UHL 58,368- 252- 57-C
UA9URF 39,404- 203- 48-C
UZ9YKO (UA9s YII,YII,YII,LU9,ops)
455,920-1000- 105-D
UZ9HYM (+ops)
389,391-1103- 79-D
UZ9QWD (UA9s-145-168,-145-284,
-145-338,UA9-103-564,ops)
311,766- 827- 91-D
UZ9YXI (+ops)
100,510- 802- 38-D

Kazakhstan

RL7FER 72,744- 388- 42-B
RL7JA 61,218- 381- 38-B
UL8G8I 18,202- 113- 38-C
RL7FGI 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

OK1XGJT 26,774- 262- 22-C
Asiatic RSFSR

UA8SAU 843,320-1397- 145-A
UA8TO 729,603-1582- 111-A

UA8ABK 402,311- 936- 91-B
UA8SR 323,304-1112- 76-B
RA8SU 105,700- 363- 70-B
UA8ME 6,749- 97- 17-B
UA8SG 55,873- 261- 58-C
UA8SV 108- 6- 6-C
UZ9QWS (UA9s OA,OCS,OD,OE,
-085-144,ops)

783,216-1727- 108-D
UZ9WWP (RW9WR,UA9s WCL,WN,
ops) 133,531- 535- 61-D
UZ9SXF (UA9s SLT,SNR,ops)
132,486- 460- 71-D

ZONE 33

Asiatic RSFSR

RA8JD 30,141- 159- 51-C
UW9UQ 26,859- 277- 21-C
UZ9QWT (+ops)
399,321- 779- 117-D

ZONE 34

Asiatic RSFSR

RA8FA 425,260- 885- 110-B
UA8NL 52,866- 260- 54-B
UW9BLT 1,019,008-1525- 152-C
UA8FZ 40,656- 217- 48-C
UA8BB 6,900- 89- 20-C
UZ8CWA (RW8CA,UA9s CCD,CG,CJC,
UW9s CA,CN,ops)
*475,594-1152- 98-D

ZONE 35

Asiatic RSFSR

UA8XAK 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,ops)
420,096- 900- 96-C

Portugal

CT1BOP 562,410-1480- 90-B
CT1BWW 11,088- 67- 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
EA8JC 26,290- 135- 55-B
CA2AN 23,280- 254- 31-B
EA9FKK 21,476- 262- 28-B
EA8AP 9,930- 72- 37-B
EC3CPT 7,007- 192- 11-B
EA7BYM 4,608- 192- 24-B
EA8EFV 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- 185- 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,ops)
1,649,070-2356- 146-C

ZONE 41

India

VU2TJW (K3TW,ops)
930,088-1815- 118-A

VU2TTC 60,588- 292- 54-A

ZONE 44

Korea

HL1LW 48,070- 279- 46-A
HL3DE 10,325- 118- 25-C

HL8K (HL1AXK,HL5EAT,HL4CGI,ops)
141,024- 482- 78-D

HL8B (+ops)
134,232- 688- 56-D

Hong Kong

V56UP 271,400- 754- 82-C

ZONE 45

Japan

JA8RWU 475,082- 960- 108-A

JA1YFG (JE7WB1,ops)
226,590- 638- 83-A

JH4UTP 100,018- 303- 86-A
JA8BMS/1 60,966- 275- 54-A
JA1YTD (JH4XKW,ops)

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 12,880- 86- 38-A
JA0GZ 11,725- 81- 35-A

JA1AA1 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

JH6DEH 16,470- 125- 30-B
JL3WSL 16,058- 167- 31-B

JA6EPT 13,158- 95- 34-B

JL1MW1 13,048- 108- 28-B

JA1JSY 12,704- 107- 32-B

JA2BEY 12,132- 83- 38-B

JA0AD 9,062- 84- 23-B
JA8AW 6,678- 70- 18-B

JA3SSB 2,774- 44- 19-B

JG7LBN 2,600- 36- 20-B

JH1RMH 2,070- 36- 16-B

JF4UJM 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- 16- 8-B

JH2WHS 238- 12- 7-B

JH0WR 60- 4- 3-B

JE1TTO 12- 2- 2-B

JQ9XTB 5- 1- 1-B

JH7WKO 822,873-1017- 177-C

J7DLE 552,575-1048- 115-C

JR3BOT 328,076- 622- 87-C

JA9CMJ 289,085- 735- 85-C

JA7YAB (JA1363,ops)
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

JA1WQ 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

JG3EHD 1,040- 22- 10-G

JA9YBA (JA9s OTX, VTA-18145, JH9s
SSU,VSH,JR8GOU,JR9s CCO,EUZ,
JR9BAK,ops)

855,792-1398- 132-D

JA7YFB (JN1IME,JP1LRT, JQ1NBV,
J13CNL, JH10PR,ops)

715,750-1276- 125-D

JA1YAD (JS1DVS, JH5GHN, JA9UFS,
ops)

541,252-1293- 94-D

JA4YJA (JJ3LUU,JM3LUK,ops)
371,958- 934- 94-D

JA1YXP (JJ1UTP,JO1JOZJ, J2DLF,ops)
117,376- 448- 56-D

JE6ZAI (JS1PWV, JF4ETK,ops)
76,555- 347- 61-D

JA2YEF (+J12LPD)
15,466- 94- 37-D

ZONE 46

Sierra Leone

9L1GG 248- 9- 6-C

ZONE 50

Philippines

4D9RG (DU3RG,ops)

610,368-1312- 96-B

K4YT/DU1 25,239- 123- 47-B

DX9HT (DU6AF,DU9s AA,BI,BL,
BK,ops)

294,120- 664- 63-D

ZONE 51

Indonesia

YC9VGJ 119,092- 645- 38-B

ZONE 53

Mayotte

FH5EF 139,636- 400- 72-A

Seychelles

S79D 10,166- 65- 34-A

ZONE 54

Indonesia

YB3ASQ 469,100- 967- 100-B

YC8VFB 103,689- 614- 41-B

YC9OSE 55,800- 322- 36-B

YC8RFF 40,760- 235- 40-B

YC2DG0 37,310- 120- 65-B

YC8USJ 34,100- 228- 31-B

YC2EMV 21,150- 151- 30-B

YC8HSA 15,182- 164- 21-B

YC2BHKJ 10,272- 90- 24-B

YC3OKT 2,210- 100- 26-B

YC3HCM 197,315- 632- 67-C

YB2FEA 80,388- 316- 69-C

YC5PG 12,884- 110- 24-C

YC2ZES (YD2UPX,ops)
1,840- 83- 23-C

YB2BAR (YB9s DPO,EMJ,PR,SY,
TK,ops)

657,934-1882- 99-D

ZONE 55

Australia

VK8AV 168,508- 356- 103-C

VK4SS 33,805- 117- 65-C

VK4TT 14,520- 123- 24-C

ZONE 58

Australia

VK8AJ 37,221- 141- 57-C

ZONE 59

Australia

VK2APK 313,215- 623- 95-C

ZONE 60