

Results, 5th IARU HF World Championship

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Contest Manager

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The 1990 IARU HF World Championship was held the weekend of July 14-15. Although this year's contest didn't measure up to the 1989 contest when it came to propagation and band openings, every entry class crushed ITU-Zone records. Thirty-five records went by the wayside: five on mixed mode, 11 on phone, 11 on CW and eight multioperator.

This summertime contest is always fun and morale was as high as usual. John, WB6DFA, exclaims, "I had a great time! Band conditions on the West Coast weren't as good as last year, but I was still able to add five new countries to my totals." ZM2AGY conveys, "Conditions seemed a little spotty, but that's half the fun." WA6HRK claims, "Even though the solar flux was down from last year, I still made 50% more QSOs." Peter, WW2Y, reveals, "The high bands weren't as good as last year's contest, but 80 and 40 were in great shape this time around."

This year's contest attracted 1166 entries from 43 ITU zones. CW remains the most popular entry category in the 24-hour contest. Second on the list is phone-only, followed by mixed mode and multioperator.

Eleven IARU member-society HQ stations submitted their logs, with five breaking the

1-meg mark. Congratulations in particular to the MRASZ station HG90HQ, whose 8.7M score topped the list. They are followed by Y61HQ with 8.4M; YP0A with 3.5M; W1AW with 2.4M; and GB5HQ with 1.3M points. Thanks to all the HQ stations that participated and gave us those extra multipliers.

Tom, 5H3TW (K3TW, op), boosted his last year's second-place effort by 400k points, winning the world mixed-mode category for 1990 with 1.8M points. Great going, Tom! Ben, DL6FBL, finished in second-place world with an impressive 1.3M points. Rich, K1CC, moving up from sixth-place world last year, finished in third-place world and first-place W/VE, scoring 1.0M points. Fred, K3ZO, placed seventh in the world and second for W/VE, scoring 907k points. Howard, K4PQL, was tenth-place world and third-place W/VE with 716k points.

Serge, UT5DK, scored 845k points to take first-place world phone. Janez, YU3HR, moved up the ladder from eighth place in 1989 to second-place world phone this year, scoring 822k points. Jack, W1WEF, moved up a notch from sixth place last year to fifth-

place world and first-place W/VE phone, with 733k points. Bob, KW8N, finished eighth-place world and second-place W/VE, scoring 658k points.

On the CW-only front, Steven, WB2Q, moved up in the standings by seven notches to win first-place worldwide CW for 1990, scoring 1.2M points. Bill, KM9F, guest operating at N4RJ, finished second-place world CW with 1.0M points. Brass pounder Al, G3FXB, scored 974k points to finish third-place world. Dan, K1TO, finished sixth-place world and third-place W/VE, scoring 904k points. Ralph, N5RZ, was seventh-place world and fourth-place W/VE with 872k points. Dave, K5GN, scored 711k points, finishing eighth in the world and fifth for W/VE. In ninth-place world and sixth-place W/VE was Dave, K6LL, scoring 711k points.

In the multioperator category, there was a fierce battle for the world top spot between two Hungarian stations. When the dust settled, HG1S finished on top with 3.3M points, setting a new all-time score record. The crew at HG0X wasn't far behind with 3.2M points in second place. Last year's multiop winner, UC1OWA finished third with 2.7M points. The gang at K8AZ edged out K3EST and friends for first-place W/VE multiop.

IARU Headquarters Stations

HG90HQ (HA1YU, HA4s XT, ZZ, HA5s GF, IW, LN, MK, WE, HA6s NF, OQ, HA7JAO, HA8s FM, IE, ops) 8,740,732 10,218- 259- D

Y61HQ (DF7RX, DK3EI, DL2NBU, DL3OI, DL4NAC, DL6RAI, Y21s EF, TL, Y23EK, Y24UK, Y24VF, Y32s NJ, QD, TK, VK, Y33VL, Y37XJ, Y42s IK, LK, MK, OK, PK, QK, Y58WA, Y77VH, ops) 8,404,968- 9891- 264- D

YP0A (YO2BV, YO3s APJ, FU, YO4s AVR, BEX, BQV, FM, HW, UC, YO6AWR, YO7UP, YO8s AXP, BAM, DDP, EB, YO9s AGM, BEI, FE, ops) 3,558,126- 6082- 202- D

W1AW (KA2AEV, KQ2M, KR2J, KZ2S, N2KW, NQ2D, W6LC, NI8L, ops) 2,439,500- 5169- 164- D

GB5HQ (G3OZF, G4s JUG, RTO, G0HSD, ops) 1,347,260- 2218- 155- D

4U1ITU (N6TR, op) 976,752- 2402- 126- C

JA3RL (JA3MAU, JG3s KUT, RPL, JI3ERV, JJ3WPF, JP3LKR, JR4ISF, JR5NMD, ops) 788,358- 2347- 118- D

SK3SSA (SM3s OSM, SGP, ops) 495,390- 1466- 105- D

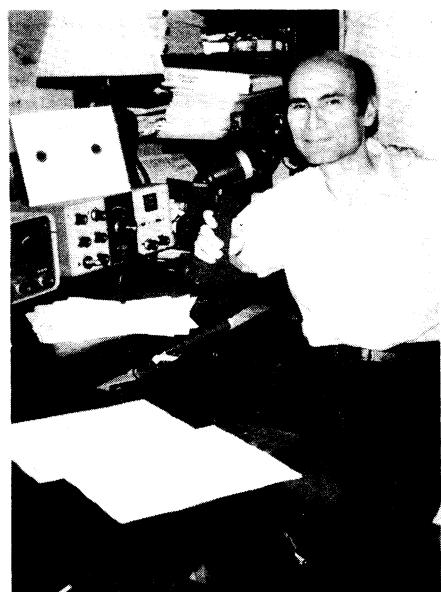
EI0RTS (EI2s EZ, FN, GS, EI3GU, EI4s GK, HE, EI5CZB, EI7CX, EI9FL, ops) 469,371- 1471- 103- D

VE3QST (VE3XN, op) 163,785- 755- 61- A

SN9C (SP9s ADV, GDO, JPA, MZP, ops) 147,390- 976- 85- D



Operators at JARL headquarters station JA3RL in Osaka, Japan, are busy securing their seventh-place finish.



John Anderson, WB6DFA, of Laguna Hills, California, had a great time operating phone-only from the Orange Section in Zone 6.

Top World Scores

Mixed		CW	
<i>Call sign</i>	<i>Score</i>	<i>Call sign</i>	<i>Score</i>
5H3TW	1,859,822	WB2Q	1,270,620
DL6FBL	1,366,014	N4RJ	1,017,640
K1CC	1,057,383	(KM9P,op)	
RW9WA	1,010,096	G3FBX	974,974
RH8E	963,010	RZ9UA	947,525
(RH8EA,op)		UL7CW	913,116
EX3A	917,769	K1TO	904,400
(UW3AA,op)		N5RZ	872,395
K3ZO	907,531	K5GN	747,826
EX6S	808,119	K6LL	711,674
(UA0SAU,op)		OH1AD	693,852
RW4LYL	767,167		
K4PQL	716,001		
Multioperator			
<i>Phone</i>		<i>Call sign</i>	<i>Score</i>
<i>Call sign</i>	<i>Score</i>		
UT5DK	845,427	HG1S	3,342,547
YU3HR	822,780	HGBX	3,253,341
LY2ZO	800,640	UC1OWA	2,716,532
(LY1R-751,op)		RT1U	2,517,972
UA0TO	737,832	RO9W	2,133,224
W1WEF	733,134	R6L	2,118,741
OH2BU	721,356	4LF	2,009,250
(OH1EH,op)		UW2F	1,877,213
GM8ECO	686,488	UB3IWA	1,824,992
HA0NAR	674,576	P30S	1,424,970
KW8N	658,750		
LY3BH	632,672		

The IARU HF World Championship offers something for everyone. You have the choice of operating CW and phone or just one mode, if you like. Anyone, anywhere in the world can be contacted for contest credit, with a QSO point structure emphasizing contacts with stations in other continents, but not ruling out QSOs with colleagues in your own continent or country. Multipliers are the 90 ITU zones and IARU headquarters stations around the world. Almost any station can be competitive in the HF World Championship. It doesn't take big antennas or a lot of power to enjoy it, as Dan, AA6LM, expresses, "I didn't need anything fancy to join the fun!" You don't even have to win in your Section or country to qualify for "wallpaper" in this one. You can earn a contest certificate just by completing 250 QSOs or getting 50 multi-

pliers and submitting your entry. If you demand a more intense challenge, such as finishing in first place or making the top ten, the championship offers plenty of tough competition.

See you in next year's championship, the weekend of July 13-14, 1991.

SOAPBOX

I passed my Extra Class exam the day of the contest and decided to give my new privileges a new try, and I even worked some new countries (N6NMH). This wasn't much of an effort, but I had a lot of fun (WX0B). I enjoy the format of this contest! (W7YAO). I'll be better prepared next year (N7LOX). Conditions were good, although not as good as last year (AD5Q). I always enjoy the contest (W5NR). It was a great contest, as always, but propagation was not as good as it was last year. Even though I was tired in the wee hours of the morning, I still wish the contest was longer than 24 hours (WB7EZO). I'll see you next year, the good Lord willing (W1CNU). I didn't pay much attention to last year's results until I got the certificate in the mail (KC2TA). The propagation on 10 and 15 wasn't as good as last year and it seemed that the participation was down (K3IXD). This was my first DX contest (W3NGO). These were the worst conditions I've ever seen in a contest. What happened to the sunspots? (KD3GC). Although conditions seemed much better this year than last year, I still came out with about the same score (W9HE). I was glad to be able to do it again (PP7JCO). This was my first IARU contest, but not my last (LA9DFA). I had a nice holiday with my XYL (OH0/OZ1JVN). This contest is one of our favorites (OH1EH). I enjoyed every minute of the contest (OH6YF). It's good this contest lasts only 24 hours (OH5NFS). It was an interesting contest (OH3YM). 10 meters was a disappointment (OZ7AX). It was an excellent contest, though conditions were not quite as good as last year. We're planning for next year already! (EJ1D). Conditions were not good on 10 or 15, but the QSO rate on 20 was better than usual (G4BKJ). I enjoyed the contest, and hope to do better next year (GW0AJI). It was a good contest, but my going to bed at night cost me about 300 QSOs (PA0IJM). This is always the nicest contest of the year. I always anticipate it and the heat wave it brings with it (PA3EMN). It was hard to be active with the 35° C temperatures (PA0DOM). It was a pity that activity from Africa and Oceania on CW seemed so low.

Top W/VE Scores

Mixed		CW	
<i>Call sign</i>	<i>Score</i>	<i>Call sign</i>	<i>Score</i>
K1CC	1,057,383	WB2Q	1,270,620
K3ZO	907,531	N4RJ	1,017,640
K4PQL	716,001	(KM9P,op)	
K2ZD	623,691	K1TO	904,400
WD8LLD (WD8AUB,op)	577,096	N5RZ	872,395
WA3LFY	352,704	K5GN	747,826
WF5E	312,067	K6LL	711,674
K8AQM	280,600	N2BA	674,730
KV2J	261,970	(KBHVT,op)	
WA5OYU	254,616	N16W	659,475
		K8CC	646,668
		N6TV	579,852
Phone			
<i>Call sign</i>	<i>Score</i>	Multioperator	
W1WEF	733,134	<i>Call sign</i>	<i>Score</i>
KW8N	658,750	K8AZ	1,010,940
K6SVL	361,485	K3EST	1,004,289
WB2K	360,360	K4VX/0	960,480
KA5WSS	338,400	N8CXX	709,496
AA9A	308,976	K6XT	680,218
N6YKL	265,866	WW2Y	625,510
KB2BF	227,664	KA5W	600,288
KA1ION	220,168	KR0B	536,928
WW6O	152,470	NF7P	496,496
		K9SD	462,840

(PAØLOU). The power supply for my amplifier blew up at midnight (DL8PC). This is the best contest of all (DL2OBW). Two watts worked great from here (DL/WC6U). The bands weren't good. Starting the contest at 4 AM was a change (AL7CQ). It was a lot of fun to enter a contest from my home town, where I hadn't been active for 15 years (IX1MOL). It was a good experience (IK3ORD). The tower and 20-meter antenna were destroyed in a heavy storm 12 hours before the contest (IV3TQE). This was an interesting contest (SP3XR). I ran out of electricity! (SV1RP). Conditions were bad this year (Y21CL). This was my first try at this contest (Y05CTY). Although the propagation was poor, it was a nice contest (4N3AA). The contest was enjoyable in spite of the poor propagation (UA3DPX). It was an FB contest (UA3JD). We used four separate receivers coupled to a single exciter/PA (LY2WW). It was a nice contest! (YL2PJ). It was a good contest, but the conditions were bad here (ES4XB). The contest could have been great, as usual, if the propagation was as good as it should have been. I missed the skip to the Pacific on 10 meters, which cost me four multipliers (RV9CFA). This was my first contest! (UL7NEA).

Scores

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

Zone 1		K6SVL	361,485-	977-	87-B
Alaska		N6RVZ	148,434-	505-	78-C
KL7Y	755,375- 1539-	125-A		2,277-	29- 23-C
AL7CQ	357,520- 1132-	82-B			
AA6DX/KL7	218,198- 691-	79-C			
Zone 2			Orange		
Alberta		N6TIB	144,387-	670-	61-A
VE6GEL	24,318- 159-	42-B	NX6M	19,584-	179- 36-A
		N6WK	10,881-	103-	27-A
		N6YKL	265,866-	972-	73-B
		WB6DFA	42,030-	292-	45-B
		N16W	659,475-	1235-	135-C
		W6SX	55,275-	301-	55-C
		AA6LM	1,785-	39-	15-C
British Columbia			Santa Barbara		
VG7ARS	65,721- 348-	57-A	WA6FGY	121,408-	658- 56-A
VE7XO	4,422- 51-	22-B	W6BKY	11,760-	137- 28-C
VE7CC	666,995- 1345-	133-C	N6NMH	8,568-	85- 24-D
			(+ WA6IET)		
Zone 4			Santa Clara Valley		
Ontario		N6IP	109,344-	378-	67-A
VE3TJL	2,320- 55-	16-A	N6JM	54,340-	210- 65-A
VE3BXY	64,042- 254-	71-B	N6NF	14,582-	210- 23-A
VE3KP	254,068- 827-	76-C	KE6ZE	119,966-	416- 77-B
VE3OSZ	25,415- 101-	65-C	WA6HRK	21,462-	151- 42-B
		N6TV	579,852-	1176-	128-C
Zone 6		AD6E	91,016-	400-	62-C
W6		WX0B	88,440-	338-	66-C
East Bay		K6MJ	57,152-	193-	64-C
K16OY	1,106- 27-	14-B			
N6EK	277,276- 742-	103-C			
NF6S	277,090- 613-	110-C			
Los Angeles			San Diego		
N6BP	42,849- 173-	69-A	K16ZH	39,219-	213- 51-B



The operators of MRASZ headquarters station HG90HQ celebrate their first-place finish. Pictured (l-r) standing: Peter, HA5WE; Tibor, HA5LN, and his wife, Eva, HA5YLN; and Tomi, HA7RY; sitting: Simon, HA5IW; Peter, HA5MK; Zoli, HA5ML; Sanyi, HA5GF in front.

W6YA	577,670-	1181-	122-C	K9MW/M#	56,540-	359-	44-B	W2HCA	38,857-	225-	49-C	W8	Zone 9
AA4M	353,174-	811-	118-C	KD8NB	14,212-	112-	38-B					Michigan	VE
W6UQF	302,876-	711-	116-C	WB8Z	3,654-	54-	21-B					K8AQM	280,600-
K6V	5,616-	60-	24-C	WB8WJ	2,808-	32-	26-B	KB2BF	227,664-	778-	72-B	KF8DF	674- 115-A
AA8EE	168-	8-	7-C	AC8S	41,689-	251-	47-C	KC2TA	10,152-	125-	27-C	K8DD	22,074- 410- 39-A
K6XT (+K6JY0,K6ZH)	680,218-	1159-	154-D	WB8KEA (+W1XE,KR8U)	379,500-	99-	100-D	K2MK	7,756-	71-	28-C	KD8PF	124,968- 420- 82-B
							WW2Y (+K2WI,N2NU)				K8CC	27,120- 646- 48-B	
								625,510-	1185-	142-D	K8JA	646,668- 1268- 142-C	
										K8CV	17,640- 110- 45-C		
										N8CXO (+KJ8M,KC8OC,NE8T,WB8VMS)	8,896- 88- 32-C		
											709,496- 1404- 131-D	30,927- 210- 39-D	
San Joaquin Valley				Iowa								US Virgin Islands	
WW6O	152,470-	530-	79-B	NE8P	40,137-	258-	51-A					WA9SQN/KP2	61,460- 447- 35-C
KD6VV	562,950-	1066-	135-C	WB8PPF	22,237-	151-	37-B						
N6SUZ	53,361-	357-	49-C	KF8KY	10,974-	114-	31-B						
Sacramento Valley				Kansas								Turks & Caicos	
W8NKR	4,428-	52-	18-C	WB8YIT	5,712-	53-	21-B					KF8K	161,913- 499- 93-A
K3EST (+K1EZ,NG8O,JH4RFH, JR4DUW)	1,004,289-	1787-	143-D	N8FMR	25,065-	158-	45-C					K8NI	80,199- 281- 63-A
K6FO (+N6WR)	2,684-	403-	68-D								KW8N	35,728- 241- 44-A	
W7				Minnesota				KV3U	3,680-	61-	20-B	KA8BNZ	658,750- 1110- 155-B
Arizona				WB8HUQ	24,477-	183-	41-B					KC8WR	71,822- 329- 69-B
KG7EM	2,680-	38-	20-A	KE8UI	20,736-	150-	36-C					NG8D	30,528- 300- 32-B
K6LL	711,674-	1375-	134-C	KF8T	7,372-	98-	19-C					N8BC	107,692- 507- 52-C
KC7V	1,980-	50-	10-C	KR8B (AF9T,K8E,II,IL,KJ8B,KS8T,N8s BIL,BKL,ops)	536,928-	1222-	119-D	WA3LFY	352,704-	866-	96-A	W8CAR	77,316- 274- 68-C
Eastern Washington				NS8B	60,568-	260-	67-A	NM3E	107,520-	438-	60-A	W8FN	63,375- 225- 75-C
K7WA	7,062-	69-	33-A	KC8LX	68,103-	285-	63-B	N3HHE	74,088-	289-	72-B	K8SJ	61,640- 374- 46-C
Montana				K4VX/B (+AG9A,W0G)	960,480-	1547-	160-D	KA1CLH	14,664-	564-	26-B	N8GU	34,236- 145- 38-C
K57T	26,936-	222-	37-A	W3BGN	41,572-	278-	38-C	K3ZPG	10,888-	68-	38-B	K8ES	14,688- 116- 34-C
Nevada				K3WW	3,072-	56-	12-C	W3GG (+KD3JH)	91,476-	502-	44-C	K8AZ (+K8s BL,NZ,KQ8M,N8s ATR, DMM,W8KIC,W7BC)	1,010,940- 1522- 174-D
WB7VHH	1,744-	31-	18-B	Nebraska				W3J	382,374-	1026-	97-D	W8LT (NZ4K,KU8E,ops)	441,220- 996- 130-D
KZ4H/7	25,425-	215-	45-C	K8SW	21,378-	111-	42-A	KD3I (+NET)	67,396-	224-	83-D	NO8D (+NF8R)	
NF7P (+NC7K,WX7W)	498,496-	1400-	104-D	South Dakota				K3ZO	907,531-	1591-	139-A	403,425- 1115- 99-D	
				WD8BMR	90,610-	435-	65-B	K3EKA	31,680-	156-	55-B	WD9INF (+KB8HAE,W8IQ,W8ZZA)	400,980- 922- 123-D
							K3IXD	31,185-	141-	63-B	WA8OSE (+N8JEC)	156,434- 360- 107-D	
Zone 8				KA3QER	2,568-	54-	12-B	W3GG	39,167-	201-	53-C		
Oregon				W1				W3JH	382,374-	1026-	97-D		
WR7E	46,748-	238-	58-B	Connecticut				KD3I (+NET)	67,396-	224-	83-D		
W7YAQ	280,721-	669-	119-C	K1CC	1,057,383-	1719-	153-A	W3YEY	39,300-	211-	50-B	West Virginia	
KA7FEF	8,034-	91-	26-C	K1SSN (WB7EZO,op)	178,224-	758-	79-A	N3GSC	35,990-	160-	59-B	Argentina	
Utah				NT8Z	22,672-	182-	52-A	WB3CQA	8,990-	86-	29-B	KU1CX	52,206- 249- 42-A
K8XO	83,448-	380-	78-A	W1WEF	733,134-	1571-	118-B	W3NGO	3,744-	54-	18-C	LUBESU	146,034- 470- 63-B
W7HS	80,754-	239-	86-A	KA1ION	220,168-	559-	104-B	KA3RRF	2,873-	49-	17-C	WT8L (+N4SLR,N8MDC,WB8s VAZ, YZV)	152,516- 546- 91-D
Western Washington				N1VY	25,494-	179-	42-B	K3UA (+NET)	126,801-	500-	73-D	Brazil	
NX7K	158,100-	491-	83-A	N1FGX	1,309-	31-	11-B	W3J	382,374-	1026-	97-D	KC1PR/8	5,775- 30-
KI6NT	6,916-	100-	26-B	KA1MIS	1-	1-	1-B	KK4SM	61,580-	196-	76-C	KB9UG	44,160- 290- 60-A
N7LOX	62,776-	353-	56-C	K1TO	904,400-	1588-	136-C	K4NNQ	51,243-	323-	57-C	WT7T/9	43,188- 276- 59-A
K7RA	55,460-	288-	59-C	K2SX	550,458-	1341-	106-C	AA4XM	8,050-	106-	23-C	W9LYA	34,486- 249- 43-B
W7QN	21,356-	140-	38-C	K1TN	420,736-	1011-	128-C	KD3GK	54,925-	227-	65-A	KB9CRY	14,061- 121- 43-B
Zone 7				AB1U	111,300-	510-	70-C	N8LJM (K9M9P,op)	1,017,640-	1653-	152-C	N9AEJ	286,110- 772- 99-C
W5				W1CN	40,500-	245-	60-C	W4AQL (N4VMD,K9D1,ops)	41,258-	214-	49-C	K9MMS	168,833- 551- 89-C
Arkansas				W1KKF	3,530-	78-	15-C	N8L	6,540-	119-	20-C	NA1AR	109,798- 427- 82-C
A5VBE	17,438-	131-	37-A	KA1QAS (+K1TMV,NR1L)	188,240-	1156-	80-D	AA4VD	7,374-	263-	54-C	W9EBY	34,776- 263- 54-C
AACV	13,062-	85-	42-B				W4AQL	73,740-	363-	60-D	K9UQN	10,276- 93- 28-C	
W5EIJ	14,405-	109-	43-C				KD3GK	54,925-	227-	65-A	K8SD (K9ZQ,KC8AL,W9NNE,WB8SBO, KA6GGI,KWBA,W8HBH,ops)	462,840- 946- 140-D	
Louisiana											Zone 15		
KZ5D	623,691-	1285-	131-A	Eastern Massachusetts				K4PQL	716,001-	1321-	143-A	KU1EWL	118,833- 727- 33-B
W5GAD (AA5PN,KB5GQ,KG5XV,N5s N8C,OGW,RDI,WFSO,WB8VTN,ops)	67,520-	312-	64-D	NB1B	149,224-	468-	92-B	N4UH	121,104-	367-	87-B	Zone 14	
				WA1NPZ	94,546-	331-	82-B	K4RVS	74,958-	309-	78-B	KB8C	52,206- 249- 42-A
				KT2E	21,840-	138-	42-C	KJ4TI	57,834-	246-	63-B	PY1CE	48,564- 386- 27-C
Maine								WB8WAU	1,722-	39-	14-B	PY1AJK	35,196- 175- 42-C
KN1M	125,205-	446-	85-B					W4P	126,960-	439-	80-C	PY2ORF	366- 19- 6-C
K1SA	1,018,100-	100-B		K1PLX	127,280-	543-	80-B	N4UOH	14,340-	146-	30-C		
N1s AFC,FHS,FZL,W1OO	29,280-	148-	48-D	N1FWC	1,547-	33-	13-B	N4QVM	12,456-	90-	36-C		
								N4AA	172,425-	455-	95-D		
New Hampshire											Zone 18		
K8LT	186,960-	615-	80-C								Svalbard		
											W9HE	113,772- 499- 76-A	
											KB9J	113,772- 499- 76-A	
Rhode Island													
K1PLX	127,280-	543-	80-B										
N1FWC	1,547-	33-	13-B										
Northern Florida													
K4T	117,824-	501-	64-C										
Western Massachusetts													
KA1T	89,775-	349-	75-C										
KZ1M (+KB1RI)	143,000-	544-	65-D										
South Carolina													
WD8AMV	5,406-	126-	17-C										
W2													
Eastern New York													
KY2J	261,970-	850-	85-A	KO4J	136,032-	456-	78-A						
WT2F	7,475-	59-	25-A	W5DTK	80,247-	293-	69-A						
KB2JBL	784-	50-	8-B	KW4F	35,370-	180-	45-B						
WB2Q	1,270,820-	1751-	180-C	WD4AHZ	287,438-	758-	102-C						
N2BA (K8HVT,op)	674,730-	1326-	126-C	N4ES (+KB4YA,KK4QN,W4ACVC,K9RY)	239,904-	658-	102-D						
	38,164-	225-	47-C										
	377,410-	934-	110-D										
W3N													
NYC-Long Island													
K8GZ	48,000-	276-	48-B	AA4NU	137,200-	525-	80-B						
K2KTT	6,500-	62-	25-B	K4JHT	39,960-	200-	54-B						
W2GKZ	31,268-	153-	54-C	KS2K	8,586-	116-	27-B						
Northern New Jersey													
KW4E	49,500-	255-	60-A										
WB2K	360,360-	714-	143-B										
W1GD	103,335-	324-	83-B										
K3FNW	87,516-	296-	78-B										
W4													
Illinois													
N6FFZ/9	19,129-	99-	47-C										
W5													
Colorado													
N6ZA	209,070-	658-	90-A										

Gary Hammond, VE3XN, operated CRRL headquarters station VE3QST in London, Ontario.

OH6SU	14,534-	90-	43-B	TM5M (F1s JTL,MFI,FA1MXI,FD1s MXH,MYH,ops)	Italy	German Democratic Republic	YU7KM	39,300-	274-	50-C		
OH3TZ	5,020-	80-	23-B	536,991- 1538- 91-D	I00KHP	48,921- 287-	69-A	YU1GN	19,620-	108-	45-C	
OH4MCV	936-	34-	9-B	F1HWB (+ FD1ONJ) 44,550- 220- 55-D	I1KAR (IK1GDE,ops)	Y32KE	444,708- 1053-	132-A	YZ7V (+ops)	749,320-	1605-	130-D
OH3MIG	95-	7-	5-B	230,178- 755- 78-B	I20LQ/L90	287,547- 1014-	101-A	YZ3A (YU3s AJK,WE,ops)	540,640-	1351-	124-D	
OH1AD	683,852-	1454-	134-C	69,482- 354- 49-B	I21NDB	234,210- 620-	111-A					
OH8YF	604,758-	1349-	119-C	29,982- 200- 57-C	I21ORD	194,718- 661-	102-A	UA2EC	35,742-	158-	69-C	
OH6OS	350,056-	1058-	94-C	7,025- 85- 25-B	I21KW	205,454- 325-	80-C	UA2FBA	5,376-	77-	21-C	
OH5NFS	238,392-	765-	88-C	130,501- 133- 31-C	I21KWD	45,016- 351-	68-A	UW2F (UA2s FF,FJ,FM,ops)	1,877,213-	2419-	197-D	
OH3YM	46,992-	323-	44-C	2,704- 59- 16-C	I21KWD	44,545- 321-	59-A					
OH6MQE	11,286-	204-	33-C	I21KWD	35,262- 245-	54-A						
OH2YL	7,898-	91-	22-C	I21KWD	25,596- 302-	54-A						
OH6MIL	1,755-	29-	15-C	I21KWD	12,920- 103-	40-A						
OH1WM	920-	25-	8-C	I21KWD	8,382- 86-	33-A						
OH6NIO (+ OH6MFN)	435,160-	1038-	110-D	I21KWD	8,382- 86-	33-A						
OH3SWL (OH2BVM,OH3s GZ,MIG, NDH,ops)	84,077-	62-	27-F	I21KWD	8,382- 86-	33-A						
Aland Island												
OH0OZ1JVN	82,895-	439-	59-C	Scotland								
GM0ECO	686,488-	1520-	116-B	GM0ECO	713,830- 1353-	130-D	European Russian RSFSR					
GM3CFS	70,148-	278-	71-C	IN3ZNR (+ IN3s ASW,QR)	115,924-	104-A	EX3A (UW3AA,ops)	917,769-	1767-	141-A		
Denmark				141,361-	243-	51-B	RAW4LYL	767,167-	1490-	136-A		
OZ5EV	222,488-	607-	116-B	Wales	143,546-	1122-	109-D	UA3RAR	581,064-	1137-	132-A	
OZ1LTB	157,416-	527-	84-B	GW0AJI	151,250-	958-	50-D	YH3A	333,438-	866-	119-A	
OZ7AX	42,224-	241-	56-B	PA0MFO	151,250-	958-	50-D	RA1ANA	308,358-	963-	111-A	
OZ3ACZ	22,776-	154-	39-B	GW0KTN	151,250-	958-	50-D	UV3FAB	207,460-	639-	92-A	
OZ8KO	1,183-	31-	13-C	GW0XB	151,250-	958-	50-D	RW3ZC	177,280-	568-	86-A	
OZ5MAY	168-	20-	3-C	G3FBX	151,250-	958-	50-D	UA3RJ	150,920-	511-	88-A	
OZ7GF	5-	1-	1-C	G4ZME	151,250-	958-	50-D	UA3SBW	135,458-	424-	89-A	
OZ5EDR (OZ1IVA,OZ3ABE,OZ7ABI, ops)	134,687-	578-	71-D	G0N6L0	151,250-	958-	50-D	RA1WO	116,768-	504-	82-A	
Sweden				GX3CSR (G1CYB,G3XWK,ops)	151,250-	958-	50-D	Y22QE	184,857-	707-	129-B	
SM3CER	20,223-	141-	63-A	PA0JMJ	151,250-	958-	50-D	Y25KA	94,688-	366-	86-B	
SM0BDS	9,554-	89-	34-A	PA0JMJ	151,250-	958-	50-D	Y25LA	54,362-	272-	77-B	
SM3LIV	26,028-	207-	54-B	PA0JMJ	151,250-	958-	50-D	Y23A	4,395-	146-	15-A	
SM5ARR	10,800-	107-	50-B	PA0JMJ	151,250-	958-	50-D	Y54TO	3,220-	71-	20-A	
SM2NTU	10,304-	133-	32-B	PA0JMJ	151,250-	958-	50-D	Y53CD	2,166-	38-	19-A	
SM5GXW	8,991-	155-	27-B	PA0JMJ	151,250-	958-	50-D	Y55SC	1,186-	320-	26-B	
SM8OY	1,215-	33-	15-B	PA0JMJ	151,250-	958-	50-D	Y22H	140-	56-	56-A	
SM3CCM	197,520-	709-	80-C	PA0JMJ	151,250-	958-	50-D	RA3AO	100,604-	363-	82-A	
SM1BVQ	100,230-	373-	78-C	PA0JMJ	151,250-	958-	50-D	Y21J	96,433-	378-	73-A	
SK8GX	64,296-	355-	76-C	PA0JMJ	151,250-	958-	50-D	Y21T	8,194-	84-	34-B	
SM7LAZ/6	14,904-	150-	46-C	PA0JMJ	151,250-	958-	50-D	Y21V	2,675-	41-	23-B	
SM6JUF	7,700-	83-	15-C	PA0JMJ	151,250-	958-	50-D	Y21W	18,497-	147-	53-C	
SM7TV	1,880-	42-	20-C	PA0JMJ	151,250-	958-	50-D	Y23B	15,288-	104-	52-C	
Zone 19				PA0JMJ (+ PA0JMJ)	151,250-	958-	50-D	Y23C	15,042-	89-	46-C	
European Russian RSFSR				PA0JMJ (+ PA0JMJ)	151,250-	958-	50-D	Y27ZM (Y21NM,ops)	67,083-	349-	59-B	
RA1AA	291,354-	863-	98-B	Netherlands				Y27ZM (Y21NM,ops)	12,642-	91-	43-C	
U1BA	24,975-	187-	45-B	PA3FDO	42,300-	293-	47-A	Y27ZM (Y21NM,ops)	190,460-	693-	89-C	
UA1ZO	237,240-	648-	90-C	PA3EZR	11,569-	163-	23-A	Y27ZM (Y21NM,ops)	117,014-	388-	82-C	
UA1OLL	41,964-	251-	52-C	PA3BNH	675-	25-	9-A	Y27ZM (Y21NM,ops)	5,106-	54-	23-C	
US1N (OH6EI,RA9UR,UA1s NAW,NDY, UA8OO,ops)	186,676-	962-	59-D	PA3EMN	128,128-	431-	88-B	Y27ZM (Y21NM,ops)	2,197-	47-	13-C	
UZ1AWO (UA1s AKC,AOF,169-900,ops)	121,420-	688-	52-D	PA3EMN	128,128-	431-	88-B	Y27ZM (Y21NM,ops)	8,140-	43-	16-C	
Zone 20				PA3EMN (+ PA3EMV)	128,128-	431-	88-B	Y27ZM (Y21NM,ops)	10,630-	375-	90-C	
Asiatic RSFSR				PA3EMN (+ PA3EMV)	128,128-	431-	88-B	Y27ZM (Y21NM,ops)	293,646-	260-	69-B	
RA8JB	28,952-	289-	40-A	DL20BF	95,460-	592-	86-C	Y27ZM (Y21NM,ops)	1,160-	92-	24-C	
UA8JJ	21,240-	181-	34-A	DL7BQ	64,834-	439-	77-B	Y27ZM (Y21NM,ops)	9,240-	113-	40-A	
UA8JFR	28,076-	176-	38-B	DL6SF	30,632-	263-	56-C	Y27ZM (Y21NM,ops)	13,400-	120-	50-C	
UA9XS	148,070-	513-	65-C	DL1FJH	26,820-	291-	40-C	Y27ZM (Y21NM,ops)	15,100-	125-	55-C	
UA9XB	145,470-	277-	130-C	DL4MFH	10,148-	116-	43-C	Y27ZM (Y21NM,ops)	16,800-	132-	55-C	
UV9CC	50,778-	268-	42-C	DL6TJK	9,400-	11-	40-C	Y27ZM (Y21NM,ops)	18,500-	143-	55-C	
UA9KET	7,938-	95-	21-C	DL2GBB	5,544-	87-	33-C	Y27ZM (Y21NM,ops)	20,200-	154-	55-C	
UZ9WVX (UA9s XC,090-1053, -090-1058,ops)	152,561-	780-	41-D	DL7WCU	5,350-	98-	25-C	Y27ZM (Y21NM,ops)	21,900-	165-	55-C	
Zone 21				DK0LE (DL3s BCC,BCC,BCC,BZ,ops)	114,323-	426-	85-D	Y27ZM (Y21NM,ops)	23,600-	176-	55-C	
Asiatic RSFSR				DK0LE (DL3s BCC,BCC,BCC,BZ,ops)	114,323-	426-	85-D	Y27ZM (Y21NM,ops)	25,300-	187-	55-C	
RA8JB	28,952-	289-	40-A	PA0MFO	11,550-	171-	35-A	Y27ZM (Y21NM,ops)	27,000-	197-	55-C	
UA8JJ	21,240-	181-	34-A	PA0MFO	35,518-	295-	59-C	Y27ZM (Y21NM,ops)	28,700-	208-	112-D	
UA8JFR	28,076-	176-	38-B	PA0MFO	30,632-	263-	56-C	Y27ZM (Y21NM,ops)	30,400-	210-	112-D	
UA9XS	148,070-	513-	65-C	PA0MFO	1,026-	40-	9-B	Y27ZM (Y21NM,ops)	32,100-	212-	112-D	
UA9XB	145,470-	277-	130-C	PA0MFO	13,132-	93-	67-C	Y27ZM (Y21NM,ops)	33,800-	214-	112-D	
UV9CC	50,778-	268-	42-C	PA0MFO	100,152-	487-	72-C	Y27ZM (Y21NM,ops)	35,500-	216-	112-D	
UA9KET	7,938-	95-	21-C	PA0MFO	99,372-	660-	42-C	Y27ZM (Y21NM,ops)	37,200-	218-	112-D	
UZ9WVX (UA9s KB,UW9BW,ops)	152,400-	520-	60-D	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	38,900-	220-	112-D	
Zone 22				PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	40,600-	222-	112-D	
Asiatic RSFSR				PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	42,300-	224-	112-D	
RA8JB	28,952-	289-	40-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	44,000-	226-	112-D	
UA8JJ	21,240-	181-	34-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	45,700-	228-	112-D	
UA8JFR	28,076-	176-	38-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	47,400-	230-	112-D	
UA9XS	148,070-	513-	65-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	49,100-	232-	112-D	
UA9XB	145,470-	277-	130-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	50,800-	234-	112-D	
UV9CC	50,778-	268-	42-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	52,500-	236-	112-D	
UA9KET	7,938-	95-	21-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	54,200-	238-	112-D	
UZ9WVX (UA9s KB,UW9BW,ops)	152,400-	520-	60-D	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	55,900-	240-	112-D	
Zone 23				PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	57,600-	242-	112-D	
Hungary				PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	59,300-	244-	112-D	
HA8XX	185,040-	690-	90-A	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	61,000-	246-	112-D	
HA6NW	172,078-	531-	97-A	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	62,700-	248-	112-D	
HA8NAR	674,576-	1314-	133-B	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	64,400-	250-	112-D	
HA8CQ	9,085-	136-	23-B	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	66,100-	252-	112-D	
HA9F3MZ	1,026-	40-	9-B	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	67,800-	254-	112-D	
HA8NL	352,980-	1051-	106-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	69,500-	256-	112-D	
HA6XG	124,392-	567-	73-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	71,200-	258-	112-D	
HA9M8	100,152-	487-	72-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	72,900-	260-	112-D	
HA8RM	99,372-	660-	42-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	74,600-	262-	112-D	
HA6VA	81,312-	347-	77-C	PA0MFO	81,312-	347-	77-C	Y27ZM (Y21NM,ops)	76,300-	264-	112-D	
HA7XL	71,850-	266-	75-C	PA0MFO	81,312-	347-	77-C					

UZ6EWF (UA6EN,UA1-109-33/U6E,ops)	RC68/UC1WWO (+ ops)	UI4L/JUA4AO	33,060-	256-	30-A	Cyprus	JH0CAU	1,089-	23-	11-C		
44,856- 220- 58-D	100,390- 386- 79-D	UI9ACQ	24,492-	214-	26-A	P30S (5B4s MF,WN,XF,XN,ops)	JG2IGY	888-	20-	12-C		
UZ6LWB (RA6LW,U86 LMK,LRI,LRW,ops)	UC1WXE (+ ops)	UI9AWX (RI8AK,UI8AKC,ops)	141,470-	489-	70-D	1,424,870- 2111- 142-D	JL1EUP/1	810- 36-	9-C			
42,240- 290- 55-D	11,658- 171- 29-D					JATYYA (JJ3CNL,JE1JZC,JE0AWL,ops)	781,592-	1336-	136-D			
UZ3AXXK (UV3AHY,UV3WFT,UA3-170-997,ops)	UD70DWZ (UA3YBA,UD6s DCA,GFZ,ops)	130,510- 716- 62-D					JABYBY (JO1DFG,JE8s BRD,KLL,JF8s BNZ,LPB,JG8NFE,JH8s PNE,WBR, JR8s DHA,TON,ops)	773,415-	1353-	135-D		
24,881- 420- 51-D							JA1ZLO (JF2IWL,JH1KFO,JO1BTP, JR5KDR,JR8JFM,ops)	756,608-	1327-	128-D		
UZ3GXJ (+ ops)	UD8DFC	79,164- 266- 98-A	UT4UX/RJ5J	60,419-	469-	31-A	Zone 41	JE2YRD (JF2s DJQ,EOC,JK2CZL, JR7OMD,ops)	733,588-	1237-	128-D	
21,032- 145- 44-D	UD8DWC	27,080- 249- 40-A	UJ8JA	257,085-	646-	24-C	India	AT0T	109,320-	424-	60-B	
Ukraine	UD6DKW	35,728- 168- 58-C				Tadzhikistan	BV2WA	33,557-	433-	23-B		
UB5FAN	196,420- 700- 92-A	130,510- 716- 62-D				Kazakhstan	BY5RT (+ ops)	473,263-	1295-	97-D		
RB5IOV	178,192- 635- 86-A		UL7LBI	27,475-	296-	25-A	Kirghizia	UM8MFO	12,663-	148-	21-B	
UY5TE	161,767- 652- 83-A		UL7CW	913,116-	1393-	141-C	Zone 31	Zone 31				
RB5IUU	180,380- 546- 90-A		UL8LWU (UL7s 026-703,026-704,ops)	121,664-	458-	64-D	Asiatic RSFSR	XX9TDM	442,520-	1075-	104-C	
RB5EX	156,150- 588- 90-A					Kazakhstan	Japan	JABRWU	618,579-	1223-	117-A	
UB5CCP	124,640- 498- 82-A		EK9ZAA	95,874-	740-	29-A		JG3KIV	442,510-	1028-	95-A	
RB5VT	99,638- 474- 77-A		R49UKM	148,852-	525-	68-B		JH1YDT	388,624-	808-	107-A	
UB4UXM	84,845- 322- 71-A		R29UA	947,525-	1423-	151-C		JR4GPA	168,285-	597-	65-A	
UB3MW	48,508- 240- 67-A		U49OPI	71,280-	308-	55-C		JAE0WP	130,144-	348-	83-A	
UB4QYA	40,755- 172- 57-A		U49URF	41,097-	179-	57-C		JE7DOT	71,829-	267-	69-A	
UB4AR	29,205- 263- 33-A		R49HO	28,660-	129-	60-C		JE1WBA	45,387-	265-	41-A	
UB4LAT	18,603- 211- 27-A		UZ9YXI (+ ops)	226,395-	639-	81-D		JA3UWB	26,981-	171-	47-A	
RB5PK	17,267- 206- 31-A		UZ9OJX (UA9s OG1,-145-283,ops)	184,420-	604-	72-D		JA1PUK	26,936-	122-	52-A	
UB5IPN	6,308- 82- 19-A							JA1BU1	17,325-	95-	45-A	
UB5PK	178,192- 635- 86-A							JN1AIF	12,650-	67-	50-A	
UO5ON	71,868- 499- 53-C							JL1RFR	12,349-	65-	53-A	
UB5OLW	13,572- 184- 29-C							JA0BJY	8,190-	71-	26-A	
UB4TXN	100,866- 474- 73-B							JA1XPU	3,460-	45-	20-A	
UB5AFI	34,086- 251- 46-B							JH4NMT	120,533-	409-	67-B	
RB5UQ	26,760- 213- 40-B							JA6BIF	108,663-	306-	87-B	
UB5ZHQ	13,392- 184- 27-B							JA8HYB	77,184-	286-	64-B	
RB5OF	644,942- 1211- 122-C							JH1UUT	63,104-	254-	64-B	
UB7V7A	395,980- 975- 130-C							JE8JRF	56,763-	298-	53-B	
UT5AJ	328,968- 1042- 108-C							JA7BEW	43,738-	317-	38-B	
RB4UF	325,844- 1050- 106-C							JA3IWA	43,566-	190-	53-B	
RB5BA	256,188- 703- 111-C							JA0AW	15,060-	122-	30-B	
RB5IA	250,638- 738- 111-C							JE2YUO/2 (JA4DWZ,ops)	12,274-	105-	34-B	
UB5MLP	212,058- 688- 102-C											
UB5UAN	201,390- 705- 98-C											
UB5DBJ	189,069- 669- 93-C											
UB4IX	171,598- 503- 98-C											
RB5HY	98,552- 375- 72-C											
UB4FWW	89,094- 530- 62-C											
UB5IDG	78,670- 530- 69-C											
UB5EF	76,452- 393- 69-C											
RB5CL	75,554- 344- 74-C											
UB5BCJ	70,609- 285- 77-C											
UB5FZH	59,400- 274- 60-C											
RB4INR	47,124- 275- 63-C											
UB5MQS	47,034- 218- 54-C											
UB5UL	45,440- 200- 80-C											
UB4LCB	44,658- 281- 54-C											
UB4HZ	39,974- 259- 46-C											
UB5ANK	38,872- 302- 43-C											
UB4UK	36,149- 297- 37-C											
UB4MTJ	35,532- 270- 42-C											
UB5JNW	33,440- 329- 32-C											
UY5WA	27,105- 305- 39-C											
UB4LSB	25,504- 254- 66-C											
UB4BF	25,278- 147- 31-C											
UB3MP	21,822- 171- 31-C											
RB5VW	19,800- 148- 33-C											
UB5FAZ	19,459- 268- 29-C											
UB5NBW	18,038- 194- 29-C											
UB5GLX	13,826- 65- 62-C											
UB4GU	11,067- 261- 17-C											
UB4JFN	7,770- 203- 15-C											
UB5VK	4,029- 77- 17-C											
UB5LFG	3,386- 81- 12-C											
UB5SSR	836- 32- 11-C											
UB5ZME	152- 12- 4-C											
RT1U (RB5MF,RT4U,UM3UA,UT4UZ,UT5UO,ops)	UZ4WWQ	22,622- 422- 70-A	U0A0WX	808,119-	1679-	117-A	Zone 33	Asiatic RSFSR	EX0S (UA8SU,ops)	102-	11-	6-B
2,517,972- 3492- 204-D	UO4LFA	43,000- 307- 43-C	UABLCZ	289,179-	979-	69-A				48-	4-	3-B
UW3WA (RB5IJ,UB5s IFZ,IML,IKR,IRZ,-073-1151,ops)	RA4HKS	103,674- 504- 74-A	UABTO	737,832-	1330-	142-B				208-	2-	2-B
1,824,992- 2241- 208-D	UQ2GOV	124,700- 482- 66-C	UABSR	369,150-	919-	107-B				286-	3-	26-B
4K5ZL (RB5F,FF,RT4O,UE,B5K,FAK,FBU,VBO,UB5OB,ops)	UZ4WZA	41,084- 236- 63-C	UABSY	168,316-	659-	58-C				28-	5-	28-B
1,212,405- 2665- 131-D	UQ2GOV	134,682- 426- 63-C	UZ0AM	19,170-	321-	25-C				28-	5-	24-B
UB4CWW (RB5s QRQ,QRW,UB4QW,UB5s QLR,-064-866,ops)	UZ4WWA	704,462- 1391- 142-D	UZ0AWA (RA0ACP,UA0AD,ADN,-095-789,ops)	409,532-	1130-	86-D				28-	5-	16-B
525,266- 1262- 119-D	UQ2GOV	10,340- 215- 22-C	UZ0BWW (UA0CHW,UA0W,CF,CQ,CR,ops)	720,750-	1380-	125-D				28-	5-	16-B
UB4LWA (UB5s LPU,077-2031,079-345,ops)	4K4BWL/R4H (RA4HMZ,UA4HKS,4K4BGA,ops)	13,572- 115- 39-D										
493,240- 1107- 120-D	UQ2GOV	180,481- 677- 59-C										
UB4WZA (+ ops)	RW9WA	1,010,096- 1565- 144-A	ED5URN	39,200-	293-	32-A	Zone 34	Asiatic RSFSR	EX0S (UA8SU,ops)	102-	11-	6-B
476,160- 1053- 139-D	UQ9FM	201,766- 595- 79-A	EAI1GT	153,144-	636-	72-B				48-	4-	3-B
UB3JWW (UB4s JFV,JIW,JK4,ops)	UW9CM	61,902- 260- 57-A	EC3WIK	68,944-	604-	31-B				208-	2-	2-B
440,135- 1452- 95-D	UQ9QA	386,100- 791- 110-B	EAI2GJ	31,871-	313-	29-C				286-	3-	28-C
UB4GWP (+ ops)	UQ9SN	289,323- 697- 93-B	EA3DVJ	18,816-	140-	42-B				28-	5-	28-C
144,768- 631- 78-D	UQ9WB	272,600- 620- 100-B	EAI1AHA	6,440-	70-	28-B				28-	5-	28-C
UB4IWI (RB4IVM,UB5IC,UB5INT,ops)	UQ9FR	59,312- 300- 44-B	EA3DVT	13,520-	102-	40-B				28-	5-	28-C
49,980- 336- 49-D	UQ9CFA	455,416- 889- 116-C	EAS5GMK	2,660-	47-	14-B				28-	5-	28-C
UB4CWA (+ ops)	RK9C (UQ9CAF,op)	180,481- 677- 59-C	EA2BUZ	1,348-	48-	14-B				28-	5-	28-C
19,750- 260- 25-D	UQ9WB	128,498- 341- 94-C	EAT7QZQ	35,136-	203-	48-C				28-	5-	28-C
UB4VZR (+ ops)	UQ9KS	84,525- 391- 49-C	EAS5GFA	15,301-	252-	30-C				28-	5-	28-C
8,496- 114- 36-D	UQ9FB	82,782- 322- 63-C	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB9WCZ	62,608- 268- 52-C	UQ9CF	EAS5GFA	15,301-	252-	30-C				28-	5-	28-C
180,481- 677- 59-C	UQ9CF	22,082-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB4WZK (+ ops)	UQ9WS	57,584- 252- 54-C	EAS5GFA	15,301-	252-	30-C				28-	5-	28-C
189,945- 696- 81-C	UQ9CGL	45,200-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB2CWL	136,990- 471- 95-C	224-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
RC2AY	130,500- 713- 60-C	50-C	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
164,768- 631- 78-D	UQ9VDF	15,708-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB2CZL	33,411- 213- 37-C	137-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
26,531- 267- 43-C	UQ9ZCO	154-2044,ops	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB2CAQF	13,138-	288- 42-C	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
12,996- 257- 19-C	UQ9VFR	154-2269,ops	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB1COWA (UC2s OE,OM,OT,OZ,RZ,ops)	UQ9VFR	113,400-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
2,716,532- 3694- 221-D	UQ9VFR	487- 56-D	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB1CWCB (UC2s CBU,CBV,009-23,-009-112,ops)	UQ9VFR	87,516-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
415,110- 800- 202-D	UQ9VFR	372- 51-D	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB1IWW (UC2s IDC,IO,OM,OT,OZ,RZ,ops)	UQ9VFR	87,516-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
415,110- 800- 202-D	UQ9VFR	372- 51-D	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
UB1IWW (UC2s IDC,IO,008-256,ops)	UQ9VFR	87,516-	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
139,601- 668- 77-D	UQ9VFR	372- 51-D	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
Byelorussia	Azerbaijan	130,110- 800- 202-D	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
139,601- 668- 77-D	UQ9VFR	372- 51-D	EAT7AAW	21,866-	229-	26-C				28-	5-	28-C
Uzbekistan	Uzbekistan	130,110- 800- 202-D	EAT7AAW	21,866-	229-	26-C</td						