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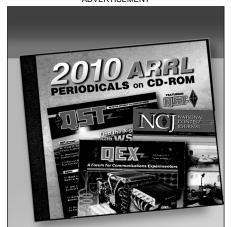
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Author: Billy Lunt, KR1R

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Results, 5th IARU HF World Championship

By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J
Contest Manager Assistant Contest Manager

he 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

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

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, KM9P, 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 HGØX wasn't far behind with 3.2M points in second place. Last year's multiop winner, UC10WA finished third with 2.7M points. The gang at K8AZ edged out K3EST and friends for first-place W/VE multiop.

IARU Headquarters Stations

HG9ØHQ (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) 3,404,968-9891-264-D

YPØA (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,GØHSD,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

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

VE3QST (VE3XN,op)

163,785-

765- 61- A

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



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

Top World 9	Scores		
Mixed		CW	
Calf sign	Score	Call sign	Score
5H3TW	1,859,822	WB2Q	1,270,620
DL6FBL	1,366,014	N4RJ	1,017,640
K1CC	1,057,383	(KM9P,op)	
FIW9WA	1,010,096	G3FXB	974,974
RHØE	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
EXES	808,119	Kell	711,674
(UABSAU.op)		OH1AD	693,852
RW4LYL	767,167		
K4PQL	716,001	Multioperator	
		Call sign	Score
Phone		HG1S	3,342,547
Call sign	Score	HGØX	3,253,341
UT5DK	845,427	UC10WA	2,716,532
YU3HR	822,780	RT1U	2,517,972
LY2ZO	800,640	HQ9W	2,133,224
(LY1R1-751,op)		RGL	2,118,741
UAOTO	737,832	4L4F	2,009,250
WIWEF	733,134	UW2F	1,877,213
OH2BU	721,356	UB3IWA	1,824,992
(OH1EH,op)		P3Ø\$	1,424,970
GMØECO	686,488		
HAØNAR	674,576		
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 multipliers 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 (WXØB). I enjoy the format of this contest! (W7YAQ). 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 (OHØ/OZIJVN). 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 (G4BKI). I enjoyed the contest, and hope to do better next year (GWØAJI). It was a good contest, but my going to bed at night cost me about 300 QSOs (PAØIJM). 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 9	Scores		
Mixed		CW	
Call sign	Score	Çali sign	Score
K1CC	1,057,383	WB2Q	1,270,620
K320	907,531	N4RJ	1,017,640
K4PQL	716,001	(KM9P.op)	
KZ5D	623,691	K1TO	904,400
WD8LLD	577,096	N5RZ	872,395
(WD8AUB,op)		K5GN	747,826
WAJLFY	352,704	K6LL	711,674
WF5E	312,067	N2BA	674,730
K8AQM	280,600	(KSHVT,op)	
KY2J	261,970	Ni6W	659,475
WASOYU	254,616	KBCC	646,668
		N6TV	579,852
Phone			
Call sign	Scare	Multioperator	
W1WEF	733,134	Call sign	Scare
KW8N	658,750	K8AZ	1,010,940
K6SVL	361,485	K3EST	1,004,289
WB2K	360,360	K4VX/Ø	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
KATION	220,168	KRØB	536,928
WW6O	152,470	NF7P	496,496
		K9SD	462,840

(PAOLOU). The power supply for my amplifier blew up at midnight (DL8PC). This is the best contest of all (DL2OBF). 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 (YO5CTY). 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
				NGRVZ	148,434	505-	78- C
Alaska				W6FA	2.277-	29-	23- C
KL7Y	755,375	1539-	125- A				
ALTOQ	357,520	1132-	82- B	Orange			
AA6DX/KL7	218,198	681-	79- C				
				Ивтів	144,387-	670-	61- A
Zone 2				NX6M	19,584	1/9-	36- A
Alberta				Newk	10,881-	103-	27- A
		400	40. 45	NEYKL	285,866-	972-	73- 🗎
VE6GFL	24,318-	159	经日	WB6DFA	42,030-	292	45- 🛱
				NIGW	659,475-	1235-	135- C
British Colu	ımbiz			WeSX	55,275-	301-	55- C
VG7ARS	65.721-	348-	57- A	AA6LM	1,785-	39-	15- C
VE7XO	4.422-	51-	22- B	Santa Barb	ara		
VE7CC	566,995	1345	133- C	WA6FGY	121,408-	658-	56- A
				WEBKY	11.760-	137-	28- C
Zone 4				NENMH	8,568-	B5-	24- D
Ontario				(+WABIET)	W, INA		140
VE3TJL	2.320-	55-	16- A				
VE38XY	64.042-	254-	71-B	Santa Clara	Valley		
VESKP	254.068	827-	76-C				
VE3OSZ	25.415	101-	65- C	NetP	109,344	376-	67- A
AE-WISE	60,510	101-	DO- ()	NGJM	54,340	210-	65- A
Zone 6				Nenf	14,582-	210-	23- A
				KERZE	119,968-		77 · B
W6				WASHRK	21,462-	151-	42- B
East Bay				N6TV	579,852-	1176-	126- C
KIBOY	1,108-	27	14-8	ADGE WXØB	91,016-	400- 338-	62- C 66- C
N6EK	277.276-	742.	103- C	KW9X SBXVV	88,440-		
NF6S	277,090	613-	110-C	KRMJ	57,152-	193	64- C
HEUS	2:1,050-	Olar	110-0				
				San Diego			
Los Angele	2			KIGZH	39.219-	213-	51- B
NGBP	42.849-	173-	69- A		Water Say		\$1. B



The operators of MRASZ headquarters station HG90HQ celebrate their first-place finish. Pictured (I-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.

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W6YA 577,870- 1181- 122- C	K9MWM/Ø 56,540- 359- 44- B	W2HCA 38,857- 225- 49-C
AA4M 353,174- 811- 118- C WGUQF 302,876- 711- 116- C	KDØNB 14,212- 112- 38-8 WBØZ 3,654- 54- 21-8	Cautham New terran
KI6V 5,616- 60- 24-C	W0BWJ 2,808- 32- 26-8	Southern New Jersey KB2BF 227,664 778 72 8
AA6EE 168- 8- 7-C K6XT (+K8JYO,KI6ZH)	ACØS 41,689- 251- 47-C WØKEA (+W1XE,KRØU)	KB2BF 227,664 778 72 8 KC2TA 10,152 125 27 C
680,218- 1159- 154- D	379,500- 99- 100-D	K2MK 7,756- 71- 28- C
	_	WW2Y (+ K2WI,N2NU) 625,510- 1185- 142- D
San Joaquin Valley	lowa	• •
WW6O 152,470- 530- 79-B KO6WW 562,950- 1086- 135- C	NEOP 40,137- 258- 51- A WOPPF 22,237- 151- 37- B	Western New York
N6SUZ 53,361- 357- 49- C	KFØKY 10,974- 114- 31-8	KD2YP 105,939- 179- 79- A W2TZ 89,404- 386- 62- C
Passamente Maltan	Manage	W2TZ 89,404- 386- 62- C KB4VL (+ N2JYC)
Sacramento Valley	Kansas	13,600- 114- 34-D
Wenkr 4,428 52 18 C K3EST (+ K16EZ,N6RO,JH4RHF,	W88YIT 5,712- 53- 21-B N8FMR 25,065- 158- 45-C	W3
JR4DUW) 1,004,289- 1787- 143- D		Delaware
K6FO (+N6WR) 2,684- 403- 68- D	Minnesota	RV3U 3,680- 61- 20-B
	NOHUQ 24,477- 183- 41- B	
W7	KEØUI 20,736- 150- 36-C KFØT 7,372- 98- 19-C	Eastern Pennsylvania
Arizona	KROB (AF9T.KØs II.IJL,KJØB,KSØT,NØs	WA3LFY 352,704- 866- 96- A NM3E 107,620- 438- 60- A
KG7EM 2,680- 38- 20- A K6LL 711,674- 1375- 134- C	BIL_BKL,ops) 536,928- 1222- 119- D	N3HHE 74,088- 269- 72-8
KC7V 1,980- 50- 10-C	300,020 TEEL 110-12	KA1CLH 14,864 564 26-B K3ZPG 10,868 66- 38-B
	Missouri	K3ZPG 10,868- 66- 38- B NN3Q 91,478- 502- 44- C
Eastern Washington	NS0B 60,568- 260- 67- A	KL7HIR 86 170- 393- 70- C
K7WA 7,062- 69- 33- A	KCØLX 68,103- 285- 63- B K4VX/Ø (+ AG9A,WOBG)	NF3P 77,349- 409- 57- C KI3S 55,108- 278- 59- C
Montana	960,480- 1547- 160- D	W3BGN 41,572- 278- 38-C
KS7T 26,936- 222- 37- A	** *	K3WW 3,072- 56- 12- C
	Nebraska	Maryland-DC
Nevada	KØ\$W 21,378- 111- 42- Å	K3ZO 907,531- 1591- 139- A
WB7VHH 1,744- 31- 16-B KZ4H/7 25,425- 215- 45-C	South Dakota	K3EKA 31,680- 156- 55-B
KZ4H/7 25,425- 215- 45- C NF7P (+ NC7K,WX7W)	WDØBMA 90,610- 435- 65-B	K3IXD 31,185- 141- 83- B KA3QER 2,588- 54- 12- B
496,496- 1400- 104- D		N3GOF 39,167- 201- 53- C
Oregon	Zone 8 W1	W3GG (+KD3JH) 382.374- 1026- 97- D
Oregon WR7E 46,748- 238- 58- B	Connecticut	382,374- 1026- 97- D KD3I (+ NET) 67,396- 224- 63- D
W7YAQ 280,721- 669- 119- C	K1CC 1,057,383- 1719- 153- A	• • • •
KA/FEF 8,034- 91- 28-C	K1SSN (WB7EZO,op)	Western Pennsylvania
Utah	178.224- 758- 79-A	W3YEY 39,300- 211- 50- 8 N3GSC 35,990- 160- 59- B
K6XO 83,448- 380- 76- A	NTØZ 22,672- 182- 52- A W1WEF 733,134- 1571- 118- B	WB3COA 8,990- 86- 29- B
W7H\$ 80,754- 239- 86- A	KATION 220,168- 559- 104- B	Wango 3,744 54 18-C
	NY1V 25,494- 179- 42-B NF1J 9,660- 111- 28-B	KA3RRF 2,873- 49- 17-C K3UA (+ NET) 126,801- 500- 73-D
Western Washington	N1FGX 1,309- 31- 11-B	
NX7K 158,100- 491- 93- A KI6NT 6,916- 100- 28- B	KA1MIS 1- 1- B K1TO 904,400- 1588- 136- C	W4
N7LOX 62,776- 353- 56-C	N8RA (NJ2L,op)	Alabama
K7RA 55,460- 288- 59- C W7QN 21,356- 140- 38- C	550,458- 1341- 106- C	KK4SM 61,560- 196- 76- C K4NNQ 51,243- 323- 57- C
** * * * * * * * * * * * * * * * * * * *	K2SX 420,735 1011- 128- C K1TN 111,300- 510- 70- C	AA4XM 8,050- 106- 23- C
Zone 7	AB1U 40,500- 245- 60- C	Canada
W5	W1CNU 27,931- 195- 31- C W1KKF 8,530- 78- 15- C	Georgia KD3GC 54,925- 227- 65- A
Arkansas	KA1QAS (+KA1TMV,NR1L)	N4RJ (KM9P.op)
A5VBE 17,438- 131- 37- A AA5CV 13,062- 85- 42- B	188,240- 1156- 90-D	1,017,640- 1653- 152- C
W5EU 14,405- 109- 43- C	Eastern Massachusetts	N8LM 41,258- 214- 49- C AA4VD 6,540- 118- 20- C
	WB2DND 56.146- 200- 67- A	W4AQL (N4VMD,K0DI,ops)
Louislana	NB1B 149,224- 468- 92- B	73,740- 353- 60- D
KZ5D 623,691- 1285- 131- A W5GAD (AASPN,KB5GQ,KG5XV,N5s	WA1NPZ 94,546- 331- 82-B KT2E 21,840- 138- 42-C	Kentucky
NBC,OGW,RDI,WF5O,WB9VTN,ops)	TOTAL ENGINEER TOTAL TOT	N4XM 218,750- 625- 102- C
67,520- 312- 64- D	Maine	
Mississippi	KN1M 125.205- 446- 85-B	North Carolina
WA5OYU 254,616- 710- 103- A	K1SA (+K1RQ,KA1PRÐ,KB1U,KY1K, N1s AFC,FHS,FZL,W100)	K4PQL 718,001- 1321- 143- A N4UH 121,104- 367- 87- B
	29,280- 148- 48-D	KA4RVS 74,958- 309- 78-B
North Texas	New Hampshire	KJ4T! 57,834- 246- 03-B WARWAU 1,722- 39- 14-B
KD5GD 84,942- 347- 66-B N5BZ 872,395- 1496- 149-C	K< 188,960- 615- 80-C	K4PB 126,960- 439- 80-C
W5UDA 175,040 566 60 C	·	N4UOH 14,340- 146- 30- C
KA5W (+ KS1G)	Rhode Island	N4QVM 12,456- 90- 36- C N4AA 172,425- 455- 95- D
600,288- 1372- 111- D	K1PLX 127,280- 543- 80- 8 N1FWC 1,547- 33- 13- 8	•
Oklahoma	N1FWC 1,541 55 15 B	Northern Florida
NW5H 20,079- 263- 23-18	Western Massachusetts	WC4E #17,824- 501- 64-C
WM4Z 5,980- 95- 20-C KF5DA (+ KG5TO)	KA1T 89,775- 349- 75-C	South Carolina
47,142- 250- 54-D	K21M (+ KB1RI) 143,000- 544- 65- D	WD8AMV 5,406- 126- 17- C
	•	2,700 10V (F V
South Texas	W2	Southern Florida
KG5YA 138,690- 578- 67- A KA5WSS 338,400- 1006- 100- B	Eastern New York	KO4J 136,032- 456- 78- A
WA5IYX 63,480- 286- 60- B	KY2J 261,970- 850- 85- A WT2F 7,475- 59- 25- A	WASDTK 80,247- 293- 69- A WK4F 35,370- 180- 45- B
K5GN 747,826- 1154- 167- C AD5Q 575,236- 1149- 124- C	KB2JBL 784 S0- 8-8	WD4AHZ 287,436- 758- 102- C
AD5Q 575,236- 1149- 124- C KI3L/5 136,192- 568- 64- C	WB2Q 1,270,620- 1751- 180- C N2BA (K8HVT,op)	N4ES (+ KB4YA,KK4QN,WA4CVC,K9RY) 239,904 658 102 D
W5NR 30,855- 144- 51- C	674,730- 1326- 126- C	sompour Note De
NSEA (+ KSGA,W5s ASP,PWG,NB9T) 430,008- 1394- 82- D	N1CC 38,164 225 47- C	Tennessee
	WI2N (+WI2E) 377,410- 934- 110-D	AA4NU 137,200- 525- 80-B
West Texas		K4JHT 39,960- 200- 54-B KS2X 8,586- 116- 27-B
WF5E 312,067- 743- 109- A N5NA 18,410- 166- 35- C	NYC-Long Island	. September 1.150 Med Med
,	KS2G 48,000- 276- 48-B K2KTT 6,500- 62- 25-B	Virginia
W9	W2GKZ 31,266- 153- 54-C	N4MM 138,048- 366- 96-B W4JVN 89,325- 344- 75-B
Illinois	Manata and Alexander	W4JVN 89,325- 344- 75- B KM4MP 30,702- 224- 51- B
NØFFZ/9 19,129- 99- 47- C	Northern New Jersey	KG4W 81,685- 455- 55- C
WØ	KW4E 49,500- 255- 60- A	K4FPF 42,128- 223- 51- G W4XD 27,429- 205- 41- C
Colorado	WB2K 360,360- 714- 143- B W1GD 103,335- 324- 83- B	27,929- 200- 41-C
NØZA 209,070- 658- 90-A	K3FNW 87,516- 296- 78- B	

_	,		J					
	WB				Zone 9			
	Michigan				VE			
	KBAQM	280,600-	874-	115- A	Maritime-Ne	nufaundi:	nd	
	KF8DF	22,074	410-	39- A	VO1CA		82-	
	K8DD	124,968-	420-	82- B	VE1CBF	11,544 38,920-	165	37- A 56- B
	KDØPF	27,120-	163-	48- B	VE. TODY	.40,520	10.5	.70- 52
	KBCC KJBA	646,668-	1288	142- C	Zone 11			
	KBCV	17,640- 8,896-	110- 88-	45- C 32- C	Dominican	Republic		
	NSCXX (+ KJ8				HI9UD (HI3s A	-	-01	
		709,496-	1404-	131- D	nistru (nios A	мг,цг ц,о р 30,927-	210-	39- O
	Ohio				U\$ Virgin Is			
	MOSFFD (MD		44.50		WA9SQN/KP2	61,460-	447-	35- C
	K8MR	577,096 161,913-	1175- 499-	124-A 93-A				
	KFBK	80,199-	281-	63- A	Turks & Ca	icos		
	KBNI	35,728-	241-	44. A	VPSJM	289,641	1315-	67- B
,	KW8N	658,750	1110-	155- B	Zone 12			
	KA8ZNZ	71 622-	329-	69- B				
	KC8WR NG8D	30,628- 107,692-	300- 507-	32- B 52- C	Bolivia			
	NSBC	77,316-	274-	68- Ç	CP1FF	39.270-	230-	35- B
	WECAR	63,375	225-	75- C				
	WBFN	61,640	374-	46- C	Peru			
	KBSJ	34,236-	210-	54 C	OA4ZV	211,600-	534-	80- C
;	N8AGU	16,530-	145-	38 C				
;	KBES	14,688-	116-	34- C	Venezuela			
	KBAZ (+ KBs I DMM,W8KI		M,N8S	AIH,	4M1E	23,184-	196-	24-B
	Childra Physical	1,010,940-	1522-	174-13	YV5KWS	19,514-	186-	22- B
	WBLT (NZ4K,I			*****				
		441,220	996-	130- D	Zone 13			
	NOBD (+ NFB				Brazil			
	WD9INF (+KI	403,425	1115-	99- D 775)	PP7JCO	16,380-	110-	30- C
;	***************************************	400,980-	922-	123- D	Zone 14			
ì	WASOSE (+N							
		156,434	360-	107- D	Chile			
•	Mant Minni				CEBBEZ	39,865	137-	67- B
}	West Virgin				Aussalius			
)	N9JF/8 KCTPB/8	26,460- 5,775-	226- 30-	35- A 21- B	Argentina			
	WTBL (+ N4S				LU1ICX LUSESU	52,206	249- 470-	42- A 63- B
	YZV)	152,516-	546-	91- D	L00250	146,034- 132,600-	464	50-B
1					LP3F	118,833	723	33- B
i	W9				LUIEWL	86,118-	287-	62- C
	Illinois				Zone 15			
:	WB9JKI	119,440-	487-	80- A	Zone 15			
,	WD9DGE	44,160-	290-	60- A	Brazil			
	KB9UG	43,188-	276-	59- A	PP5JD	176,120-	58 6 -	40- B
	WV7T/9 W9LYA	34,486-	249-	43- B	PYICE	48,564	366-	27· C
	KB9CRY	14,061- 3,978-	76-	43- B 17- B	PYTAJK PYZORF	35,196	175-	42- C
1	N9AEJ	286,110-	772-	89- C	PTZORF	366	19-	6- C
	K9MMS	168,833-	551-	89- C	Zone 18			
;	NA1R	109,798	427-	82- C	Svalbard			
	W9EBY	34,776-	263	54- C				
	K9UQN	10,276	93-	28- C	JW/DL3LAB JW/DK2OY	9,288- 50,715-	150- 425-	24- B 49- C
١	K980 (K9ZÓ.) KAPGGI,KW			398BO ₊	344/10/201	201112-	48.7	45- 0
	ry-watan, revi	462,840-	948-	140- D	Norway			
		,,,,,,			•			
	Indiana				LA9DFA LA4KGA	131,128- 33,040-	562- 210-	74- B 56- B
•	KBØC	96,714	358-	81- B	LASAD	17,131-	147-	37- B
)	K9/S	27,360-	161-	48- B	LA6PB	1,152-	20-	12-0
		- ,						
	Wisconsin				Finland			
;	KT9W	113,772	499-	76- A	OH1AF	690,846-	1789-	102- A
	W9XT	108,262	447-	74- A	OH2BLF	97,601-	385-	73- A
	NB9C	65,152-	376-	64- A	OH7NW OH5NBJ	39,672- 12,750-	214-	58- A
	WD9EGC AA9A	-8636,1 -378,876	153- 820-	9- A 123- B	OH2BU (OH1		יהוו	-J44 PA
3	W9HE	54,320-	260-	56- C	31,223, (30)	721,356	1359-	141- B
					OH3OJ	257,383-	895	83-8



Gary Hammond, VE3XN, operated CRRL head-quarters station VE3QST in London, Ontario.

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OH6SU 14,534- 90- 43-B	TMSM (F1s JTL,MFI,FA1MXI,FD1s	Italy	German Democratic Republic	YU7KM 39,300- 274- 50-C
OH3TZ 5,020- 80- 23-B	MXH,MYH,ops}	IO0KHP 48,921- 287- 69-A	Y32KE 444,708- 1053- 132- A	YU1GN 19,620- 108- 45-C
OH4MCV 936- 34- 9-B	536,991- 1538- 91- D	ITKAR (IKTGDE,op)	Y32TD 287,547- 1014- 101- A	YZ7V (+ops)
OH3MIG 95- 7- 5-B	F1HWB (+F01ONJ)	230,178- 755- 78-H	Y32WF 234,210- 620- 111- A	749,320- 1805- 130- D
OH1AD 693,852- 1454- 134- C OH6YF 604,758- 1349- 119- C	44,550- 220- 55-D	IK2LOL/190 69,482- 354- 49-EI	Y44NO 194,718- 681- 102- A	YZ3A (YU3s AJK,WE,ops)
OH6VF 504,758- 1349- 119- C OH6OS 350,056- 1058- 94- C		IK3ORD 25,330- 173- 34-13	Y26DM 77,900- 282- 76- A	540,640- 1351- 124-D
OH5NFS 238,392- 765- 88- C	England	IK2KW 7,025- 85- 25- B	Y52TF 45,016- 351- 68- A	Zone 29
OH3YM 46,992- 323- 44-C	GMFO 353,704 915 104 A	IK1NDB 92,960- 325- 80- C	Y67UL 44,545- 215- 59- A	
OH6MQE 11,288- 204- 33- C	GRATIN 21,630- 166- 42-15	18QOO 29,982- 200- 57- C	Y72SL 41,391- 181- 63- A	Kaliningrad
OH2YL 7,898- 91- 22-C	G3FXB 974,974 1621 143-C	IK6ADY 13,051- 133- 31-C	Y25TO 35,262- 245- 54- A	UAZEC 35,742- 158- 69- C
OH6MIL 1,755- 29- 15- C	G3ESF 115,924 440 73 C	11VTX 2,704 59 16-0 IK2EGL (+12VXJ,IK2CFH)	Y25FI 25,596- 302- 54- A	UA2FBA 5,378- 77- 21- C
OH1WM 920- 25- 8-C	G4BKI 55,614- 406- 39- C	995,400- 2047- 120-D	Y38ZB 12,920- 103- 40-A Y25JA/a 11,934- 119- 34-A	UW2F (UA2s FF.FJ.FM.ops)
OH6NIO (+ OH6MFN)	GMDE 48,336- 210- 48-C	IEOCM (IOS FLY, SNY, IKOS AZO, EFR,	Y34TH 9,353- 99- 47- A	1,877,213- 2419- 197- D
435,180- 1038- 110-D	G4ZME 24,786- 198- 34-C	IHA,LFL,LLK,ops)	Y24SH/a 9 216- 112- 32- A	
OH3SWL (OH2BVM,OH3s GZ,MIG,	G/ON6LO 23,050- 250- 25-0	849,807- 1652- 109- D	Y21CL 8,668- 74- 44-A	European Russian RSFSR
NDH,ops)	GX3CSR (G1CYB,G3XWK,ops) 52,030- 276- 55-D	IV3TQE (+IV3KYQ)	Y61ZM 8,382- 96- 33- A	EX3A (UW3AA,op)
4,077- 62- 27-F	32,000 270 1370	713,830- 1353- 130- D	Y23HJ 7,840- 90- 40- A	917.759- 1767- 141-A
	Continue	INSZNR (+INS ASW,QBR)	Y77YH 7,337- 111- 29- A	RW4LYL 767,167- 1490- 138- A
Aland Island	Scotland	413,546- 1122- 109-D	Y25IJ/a 5,425- 49- 35- A	UA3RAR 581,064- 1137- 132- A
OHB/OZ1JVN 82,895- 439- 59- C	GM0ECO 688,488- 1520- 116- B	IK2GAU (+IK2s GAU,HNJ,IKT,MMF,	Y23IA 4,395- 146- 15-A	RW3AU 333,438- 866- 119- A
•	GM3CFS 70,148- 278- 71-C	NVU,OFR,OHG)	Y54TO 3,220- 71- 20-A	UA1ANA 308,358- 963- 111- A
Denmark	CIF_I	151,250- 958- 50-D	Y53CD 2,166- 38- 19- A	UV3FAB 207,480- 639- 92-A
	Wales		YSSSC 184,857- 707- 129- B	RW3ZC 177,280- 568- 86-A
	GW6AJI 41,361- 243- 51-8	Sardinia	Y25KA 94,686- 368- 88- B	UA3RJ 150,920- 511- 88- A
OZ1LTB 157,416- 527- 84-B OZ7AX 42,224- 241- 56-6		ISSOMH 122,920- 678- 10-0	Y68TH 54,362- 272- 77- B	UA3SBW 135,458- 424- 89- A
OZ3ACZ 22.776- 154- 39-B	Belgium	1324 132,92.0 13.0 0 0	Y52WB 33,656- 249- 56-B	RATWO 116,798- 604- 82- A
OZ8XO 1,183- 31- 19-C	ON4AMI 295,740- 1101- 60-B	Bulgaria	Y82WN 24,300- 206- 45-8 Y22QE 16,912- 104- 56-8	UA4LCO 107,325- 486- 81- A RA3AOD 100,604- 363- 82- A
OZSMAY 168- 20- 3-C	ONSCZ 15,624- 143- 36-B	=	Y22QE 16,912- 104- 56-B Y31NB 9,194- 84- \$4-B	BA3AOD 100,804- 363- 82-A UA4LN 96,433- 378- 73-A
027GF 5- 1- 1- C	ONEJG 5,832- 100- 16-8	LZ1ZD 126,800- 644- 80- A	Y38WE 2,875- 41- 23-B	UV6LIX 71,981- 444- 49-A
OZSEDR (OZIIVA,OZSABE,OZ7ABI,	ON4XG 104,080- 363- 80-C	LZ2FIM 55,204 272- 74-A	Y27BG 1,840- 35- 20- B	RA3VR 61,420- 269- 95- A
ops) 134,687- 578- 71- D	ONBAH (ON5s AV,IQ,ON6s AH,MM,QR,	LZZVP 45,795- 325- 43-A LZ1TA 244,020- 861- 98-C	Y44UO 820- 40- 10- B	RW3WX 51,788- 297- 54-A
	VL, DN7PC, eps)		Y45OA 600- 40- 15-B	UZ3DWZ 50,530- 270- 62- A
Sweden	514,008- 1314- 99-D	LZ2TU 242,320- 985- 80- C LZ1RN 140,154- 463- 94- C	Y90SOP 311,400- 877- 120- C	UZ8LU 36,176- 477- 68-A
		122TF 86,824 431 64-C	Y21YT/a 190,460- 693- 89-C	UZ4AXN 21,856- 217- 32-A
SM3CER 20,223- 141- 63- A	Netherlands		Y71ZA 117,014- 388- 82-C	UABJDQ 19,546- 268- 29-A
SMOBDS 9,554 89 34 A		LZ1MG 25,941- 400- 71-0 LZ3AA 18,700- 106- 55-0	Y23T1. 81,620- 417- 70-C	UA4PDX 15,470- 178- 35-A
SM3LIV 26,028- 207- 54- B			Y23GB 45,140- 245- 61- C	UZ6AZ 591,856- 1256- 142- B
SM5ARR 10,800- 107- 50- B	PA3EZL 11,569- 163- 23- A PA3BNH 675- 25- 9- A		Y66YF 39,266- 363- 58-C	UA3MDV 303,240- 744- 114- B
SM2NTU 10,304 133- 32-B		i.25W (LZ1s BP,PQ,I-244,ops)	Y21QA 38,048- 237- 58-C	BA3VV 175,134- 536- 102- B
SM5GXW 8,991- 155- 27- B		965,343- 1869- 151- D 1718GB // Z1e DD L7 (10 oper	Y22UB 31,926 192- 51-C	RA3ZH 172,800- 462- 98-B
SM60Y 1,215- 33- 15- B	PASEMN 128,128- 431- 88-B PASKHS 44,824- 254- 52-B	LZ1KGB (LZ1s DD,LZ,UQ,ops) 329,940- 1069- 90-D	Y49RF 18,497- 147- 53-C	UA4NC 79,079- 315- 77-8
SM3CCM 197,520- 709- 80- C	PARKINS 44,824 254 52-6 PARKIDM 18,963 125 49-8	329,940- 1069- 90-D LZ2KRU (+ ops)	Y23VB 15,288- 104- 52-C	UA1QM 72,491- 303- 71-B
SM1BVQ 100,230- 373- /8- C	PADDOJ 3,458- 29- 26-B	191.120- 817- 80-D	Y23CM 15,042- 89- 48- C	UZ4AWB 69,450 276 75-8
SKBGX 64,296- 355- 76- C	PA9DOM 1,710- 23 18-8	143-150- 017- 00-U	Y37ZM (Y21NM.op)	UA3RBT 67,083- 349- 59-B
SM7LAZ/6 14,904 150- 46-C	PAØLOU 387,275- 905- 118- C	B	12,642- 91- 43-C	UA4CO 57,753- 260- 69- B
SM6UF 7,700- 83- 15- C	PASENM (+ PASEQV)	Austria	Y23CL/a 8,160- 92- 24-C	UA5HON 37,188- 281- 36-B
SM7TV 1,880- 42- 20- C	410,755- 1015- 113-D	OE3GOU 13,960- 113- 40-A	Y38ZM 6,200- 48- 40- C	RASDNC 24,864 222 32 5
Zone 19	410,135 1015 (136)	OE9SCH 27 434 211- 58-C	Y87VL 5,106- 54- 23- C	UA4LAF 608,380- 380- 60-C
	7 00		Y23RJ 2,197- 47- 13- C	UASED 300,875- 1119- 95-0
European Russian RSFSR	Zone 28	Czechoslovakia	Y22HF 1,840- 43- 16-C	UA3DPX 293,846- 970- 109-C
RA1AA 291,354- 863- 98-B	Federal Republic of Germany		Y22PE/a 234- 20- 9-G	HZ3AW 144,144 520 88 C
UIBA 24,975- 187- 45-B	DL6FBL 1,366,014- 2099- 166- A		Y41CM (Y21RM, Y41s NM, YM, ops)	UA4Y\$ 128,100- 508- 84-C
UA1ZO 237,240- 648- 90-C	DL1SBR 204,552- 804- 108- A		766, 208- 1490- 112- D	UA3YAO 127,537- 461- 89-C
UA10LL 41,864- 251- 52-C	DJ1DB (DL1(AO.op)	OK3CVB 80,712- 323- 76-A OK3CDZ 46,079- ≳57- 59-A	Y371 (Y26YI,Y82s UI,YI,ops)	UA1TAF 113,032- 526- 71-C
US1N (OH6EI,RASUR,UA1s NAW,NDY,	11,550- 171- 35-A	OM7TEG 25,092- 233- 34-A	548,210- 1145- 130- D	RA3RN 196,700- 302- 100-C
UARQO,ops)	DL8PC 445,640- 872- 26-8	OKZPG1 3,520- 57- 20-A	Y43CO (Y43s GO,ZO,ops)	UA1QBE 105,412- 456- 73-C
186,676- 962- 58-D	DL8SDC 40,915- 255- 49-8		314,160- 1018- 112- 0	UA6HRZ 102,718- 470- 77-C
UZ1AWO (UA1s AKC,AQF,-169-900,ops)				
	DL1YAW 32,095- 341- 35-8	OK3CQG 10,516- 142- 22-B	Y45GJ (Y33QJ,Y45RJ,ops)	HA3PP 97,800- 484- 75-C
121,420- 688- 52-D		OK3YK 6,620- 124- 20-B	310,500- 883- 115- D	RV1AF 96,368- 444- 76-C
121,420- 688- 52- D		OK3YK 5,620- 124- 20-8 OK1DXS 588,120- 1464- 116-0	310,500- 883- 115- D Y33CC (Y33s VC,ZC,ops)	HV1AF 96,368- 444- 76-C UA1AUA 67,906- 481- 69-C
	DKSDS 26,488 221 56 B	OK3YK 9,820- 124- 20-8 OK1DXS 588,120- 1464- 116-0 OM6VD 351,431- 1015- 97-0	310,500- 883- 115- D Y33CC (Y33s VC,ZC,ops) 303,584- 1013- 106- D	RV1AF 98,368- 444- 76-C UA1AUA 97,906- 481- 69-C UA3RO /4,550- 320- 75-C
121,420- 688- 52- D	DKSDS 26,488 221 56 B DL2SDQ 20,400 216 48 B	OK3YK 9,820- 124- 20-8 OK1DXS 588,120- 1464- 116- 0 OM6VD 351,431- 1015- 97- 0 OK2PCF 164,255- 618- 91- 0	310,500 883 115 D Y33CC (Y33s VC,ZC,ops) 303,584 1013 106 D Y41CL (Y42VE,Y41s FL,HL,ops)	RV1AF 98,368- 444- 78- C UA1AUA 87,908- 481- 69- C UA3RO 74,350- 320- 78- C UA6EDW 74,358- 505- 54- C
121,420- 688- 52-0 Zone 20 Asiatic RSFSR	DKSDS 26,488 221 56 5 DL2SDQ 20,400 216 48 8 DF3IS 7,290 111 00 8	OK3YK 9,620 124 20 8 OK1DXS 588,120 1464 116- C OM6VD 951,431 1015 97- C OK2PCF 164,255 616 97- C OM1UCW 107,541 581 63- C	310,500- 883- 115- D Y33CC (Y33s VC,ZC,ops) 303,584- 1013- 106- D Y41CL (Y42VE,Y41s FL,HL,ops) 273,912- 864- 101- D	RV1AF 96,368- 444- 76- C UA1AUA 87,906- 481- 69- C UA3RO 74,550- 320- 75- C UA6EDW 74,358- 505- 54- C UW3WW 67,146- 438- 53- C
121,420- 888- 52-0 Zone 20 Asiatic RSFSR RASJB 28,952- 289- 40-A	DKSDS 26,488- 221- 56- 8 DL2SDQ 20,400- 216- 48- 8 DF3IS 7,290- 111- 30- 8 DL2OBF 95,460- 592- 98- C DL7DQ 35,518- 295- 59- C	OK3YK 9,820 124 20-8 OK1DXS 588,120 1464 116-0 OM6VD 351,431-1015 97-0 OK2PCF 164,255 616 91-0 OM1UOW 107,541-581-63-0 OM3VA 88,734 380-68-0	3310,500 883 115 D Y33CC (Y338 VC,ZC,ops) 903,584 1013 106 D Y41CL (Y42VE,Y41s FL,HL,ops) 273,912 864 101 D Y56CEIp (Y28AD,Y568 UE,ZE,ops)	RV1AF 98,368 444 78-C UA1AUA 97,906 881 69-C UASRO 74,590 320 75-C UA6EDW 74,388 505 54-C UW3WW 67,146 438 53-C UA3ID 65,335 323 73-C
121,420- 688- 52- D Zone 20 Asiatic RSFSR RASJB 28,952- 289- 40- A UA9JJJ 21,240- 181- 34- A	DKSDS 25,488 221: 56-8 BU2SDQ 20,400 216-48-8 BU2SDQ 20,400 216-48-8 BU2SDQ 20,400 216-592-86-6 CDL7BO 64,834-439-77-C DL1ZQ 35,618-285-59-C DL6SF 90,632-283-56-6 C	OK3YK 9,620 124 20 8 OK1DXS 588,120 1464 116-0 OM6VD 391,431 1015- 97-0 OK2PCF 164,255- 618- 91-0 OM1UGW 107,541- 581- 63-0 OM3YCA 88,734- 380- 69-0 OK2OX 72,261- 339- 93-0	310,500 883, 115. D 933CC (Y338 YC,ZC,ops) 933,584 (013-106-D Y41CL (Y42VE,Y415 FL.HL.ops) 273,912-864-101-D Y56CEJP (Y28AD,Y568 UE,ZE,ops) 147,477-592-92-92-D	RV1AF 96,368- 444- 78- C UA1AUA 97,906- 481- 69- C UASRO 74,369- 320- 78- C UA6EDW 74,358- 505- 54- C UW3WW 67,146- 438- 53- C UW3WD 65,335- 323- 73- C UA3UD 65,335- 323- 73- C
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UZGEWF (U/	A6EN,UA1-10 44,856-	933/U 220-	6E,ops) 58- D	RC6I/UC1WW	/O (+ ops) 100,390-	366	79- O	UI41/UA4AO UI9ACQ	33,080- 24,492-	256- 214-	30- A 26- A	Cyprus P38S (5B4s N	AE WIN YE Y	'M nack		JH9CAU JG2IGY	1,085- 88 \$ -	23- 20-	11- C
•	A6LW,UV6s I	MK,LA		UC1WXE (+c				UI9AWX (RIBA	K,UISACI,o	ps)			7,424,970		142- D	JL1EUP/1 JA7YAA (JJ3C	810- NR 1571772	36-	9-C
opsi UZ3AXK (UV	42,240- AEWU,YHAEV	-082 -EAU.Y	56-D 170-		11,658	171-	29- D		141,470-	469-	70-D	Zone 41				JATTAN (JUSC		1336-	
997.ops)	24,881-	420-	51 D	Azerbaijan				Tadzhikista	រា			India				JANYBY (JO18	DFG,JE8s B		
UZ3GXL (+c		145-	44-D	UD6DFF	79,164-	266-	98- A	UT4UX/RJ5J	60,419-	469-	31- A	ATØT	109,320-	424-	60- B	BNZ,LP8,JG JR8s DHA,T		PNE.V	мөн,
	ii i juule	170	77.0	UDBDWC	27,080-	249-	40- A	MRYN	257,085	646-	24- C		,05,04.0	78.7	firm- its		773,415-		
Ukraine				UD6DKW UD790WZ (UA	35,728 A3YBA UD6s	168- DCA (58- C 3FZ,ops)	Kazakhstan				Zone 44				JA1ZLO (JF2N JR5KDR,JRi		JQ1BT	Ρ,
UB5FAN	196,420-	700-	92 A	·	130,510-	716-	62- D	UL7LBI	27,475	296-	25- A	Taiwan					756,608-		
RB5IOV UY5TE	178,192- 161,767-	635- 652-	86- A 83- A	A				ULTCW			141- C	BV2WA	33,557-	433	23- B	JE2YRD (JF2s JR7OMD,op		JK2CZL	L,
RB5IIU	160,380-	546-	90- A	Georgia RF#O/VA6LIG	135,576-	496-	56- A	ULSLWU (UL7		026-704. 458-	ops) 64- ()	China					733,568		
RB5EX	156,150-	588-	90- A 82- A	UW6LL/UF60	31,349-	263-	29- B		121,664-	900-	04- Ú	BY6RT (+ ap:	s)			JA6YJS (JF4E			
UBSCCP RBSVT	124,640- 99,638-	498- 474-	77. A	UF6OBA	48,237-	524-	33- C	Kirghizia				. ,		1295-	97- D	JA1YAD (JN1I	450,870 HYU,J\$1s S		
UB4UXM	64,845-	322-	71- A	T				UMBMFO	12,663-	148-	21- B	Korea				JH7UCC,JA	9UFS,ops)		
UB3MW UB4QYA	48,508- 40,755-	240- 172-	67- A	Turkmenist								HLØB (+ops)	148 410.	396-	69. Ď	JABYAK (JS1F	138,488/ PTUJI70ED	567- 2.008)	56- D
UB4AR	29,205-	263-	33- A	RHOE (RHOEA	963,010-	1821-	115- A	Zone 31				HLUD (+ups)	148,419	0904	68. D	_	28,360-	150-	40- Đ
UB4LAT RB5FK	18,603- 17,267-	211- 206-	27- A 31- A	Moldavia				Asiatic RSF			on 4	Macao				Zone 46	_		
UB5IPN	6,308-	82-	19- A	ROSOI	27,262	212-	43- B	EK9ZAA RA9UKM	95,874- 148,852-	740- 525-	29- A 68- B	XX9TDM	442,520-	1075-	104- C	Ivory Coast		040	70.4
UT5DK RB5CC	845,427- 112,941-	1867- 393-	121• B 89• B	LIDSON UOSOLW	71,868 13,5 72	499- 184-	53- Ç 29- C	RZ9ŲA	947,525-	1423-	151 C	Zone 45				าบรบเ	293,095-	819-	73- A
UB4TXN	100,866-	474	73-B	UO4QXA (+o		104		UASOPI UASURF	71,280- 41,097-	308- 179-	55- C 57- C	Japan		,		Zone 50			
UBSAFI BOELLO	34,086	251-	46-B 40-B		116,686-	569-	77- D	RA9HO	28,860-	129-	60 C	JABRWU	618,579-	1233-	117- A	Philippines	1		
RB5IJQ UB5ZHQ	26,760- 13,392-	213- 184-	27-B	Lithuania				UZ9YXI (+ op:	s) 226,395-	639-	81- D	JG3KIV	442,510	1028-	95- A	DX81	81,575-	383-	44. B
RB5QF	464,942-	1211-	122- C	Lithuania LY20U	334,910-	030	107- A	UZ9OXJ (UA9				JH1YDT JR4GPA	388,624- 168,285-	808- 597-	107- A 65- A	Zone 53			
UB7VA UTSJAJ	395,980- 328,968-	975- 1042-	130- C 108- C	LY2BTA	230,775	890-	85- A		184,420-	604-	72 D	JAGEZP	130,144	348	83- A	Tanzania			
R84JF	325,844-	1050-	106- C	LY3BP	191,142-	681-	74- A	Kenakhatan				JE7DOT	71,829-	267-	69- A		1,859,822-	2403-	157- A
RB5BA	256,188-	703-	111-C	LY28LA LY28TD	88,595- 85,820-	513- 523-	65- A 70- A	Kazakhstan UL7FCW	98,250-	44.4	50- A	JE1WBA JA3UWB	45,387 26,981-	265- 171-	41- A 47- A				
R95IA UB5MLP	250,638- 212,058-	738- 688-	111-C 102-C	LY18B	38,989-	263	47- A	ULTHOW	98,250- 39,07 2 -	451- 392-	22. C	JA1PUK	26,936-	122-	52- A	Zone 54			
UBSIAN	201,390-	705-	98- C	LY2ZO (LYR1	1-751,op) 800,640-	1380-	160- B			-	-	JA1BUI JN1AJF	17,325- 12,650-	95- 67-	45- A 50- A	Indonesia YBSAB	211,688-	400	94. B
UBSDBJ UBSIX	189,069- 171,598-	669- 603-	93-C 98-C	LY38H	632,672-	1305-	136- B	Kirghiz i a				JL1ARF	12,349	65-	53- A	YESHB YC3OSE	92,895-	483- 353-	55- B
RB5HY	96,552-	375-	72- C	LY2ND	74,928-	280-	84-B	VM8DX ATM8MU	165,726-	662- 211-	54- A 35- A	JAØBJY JA1XPU	8,190- 3,460-	71 45	26- A 20- A	YC7DF	26,992-	198-	28 8
UB4FWW UB5IDG	89,094- 78,670-	530- 530-	62-C 69-C	LY2BKM	102,270- 86,360-	523- 448-	70- C 68- C	VM8MD XGD8MU	30,520- 171,654-	211- 610-	87- B	JH4NMT	120,533-	409-	67- B	YC7BVY YC4GDZ	19,003- 14,112-	129- 1568-	31-B
UBSEF	76,452-	393-	69- Ç	UP2BDN	83,835-	353-	81- Ç					JA6BIF JASHYB	108,663	306 282	87- B 64- B	YB2FEA	70,980	245-	60- C
RH5CL	75,554-	344-	74- C	LY2BPO UP2BF	44,840- 28,880-	218- 300-	59- C 38- Ç	Zone 32				JASHYB	77,184 63,104	254	64-B	Zone 55			
UBSECI UBSEZH	70,609- 59,400-	285- 274-	77. C 60- C	LY2BHD	3,730-	179-	10- C	Mongolia JT1CS	4,431-	82-	21- A	JESXRF	56,763	298	53- B	Australia			
R84INR	47,124-	275	63 C	LY2WW (LY1		(W,BIJ, 2196-	172-D	31103	4,431-	04-	21. A	JA4DUD JA78EW	48,762- 43,738-	190- 317-	63- B 38- B	VK4\$\$8	92,079-	479-	39-B
UB5MQS UB5LAL	47,034 45,440	218- 200-	54- C 80- C	FX,ops)	1,328,528-	2130	176-12	Asiatic RSF	SR			AWIEAL	43,566	190	53- B	VK4TT	34,272-	209-	32- C
UB4LCB	44,858-	281-	54- C	Latvia				EXØS (UAØSA	U.op)			JAGAW	15,060-	122-	30- B	Zone 57			
UB4HZ	39,974-	259-	46- C 43- C	YL2PJ	125,044-	479-	86- A	UAØWX			117- A	JESYUOI2 (JA	12,274-	105-	34- B	South Afric	ra .		
UB5ANK UB4IUK	38,872- 36,149-	302- 297-	37- C	YL2KQ YL2MB	103,674-	504- 482	74-A 86-C	UABTO	289,179- 737,832-	979- 1330-	69- A 142- B	JASDXIN	9 792-	72	22- B	ZS6HO	21,728-	158-	28- B
UB4MTJ	35,532-	270-	42 C	UQ2GOV	124,700- 41,084-	236-	63- C	UAØSR	369,150-		107- B	JR7LVK JR1MRG	8,840- 5,964-	86- 55-	26- B		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
UBSJNW UYSWA	33,440- 27,105-	329- 305-	39- C	YL2HB	38,428-	251-	52- C	UARSY UZRAM	168,316- 19,170-	659- 321-	58-C 25-C	JL1MWI	5,856	51.	24. B	Zone 58			
UB4LSB	25,504-	254-	32- C	YLZCA	30,564 30,157-	186- 205-	54- C 53- C	UZBAWA (RAC	MACP, UARS			JOSSEL LACETZ	5,589-	63-	13- B	Australia			
UB4IBF	25,278-	147- 171-	66- C 31- C	UQ2GN	27,570-	282-	30- C	-103-750,ap	s) 409,532-	1120.	86- D	JA3FZZ JA6NQT	5,263- 5,184-	69- 52-	19- B 24- B	VK6AJ VK6ANC (+o	82,524- ns\	252-	69 C
UB3MP RB5VW	21,822- 19,800-	148-	33- C	YŁZEO UGZGOT	18,768- 10,340-	119- 151-	34- C 22- C	RW8T/UZ9OW				JA9ZJI (JH9E	PA,op)			• North (+0	321,296-	772-	86- D
UB5FAZ	19,459	266-	29- C	RQ9W (AQ2G				ops)	134,640-	576-	60- D	JI4ARB	4,964 2,736	71- 40-	17- B 19- B				
UB5NBW UB5GLX	18,038- 13,82 8 -	194- 65-	62- C		L2s AG,OU,			Zone 33				JR1TFR	2,680-	34-	20- B	Zone 59			
UB4GU	11,067-	261-	17- C		2,13 3,22 4-	3005-	194- D	Asiatic RSF	SR			JIZOFG JEØVSW	2,100- 1,648-	30- 29-	14- B 15- B	Australia			
UB4GY UB4JFN	8,910- 7,770-	166- 203-	18- C 15- C	Estonia				UAØBK	27.584-	260-	32-B	JL1KUH	1,456	28	13-B	VK2AYK	14,894-	139-	22 B
UB5VK	4,028	77-	17-0	ES4XB (+ ops	s) 181,062-	503-	126- D	UAØGFA	231,100-	736-	75- C	JESUZG	1,335	23-	15- B	VK5OX	14,231-	153-	19- B 19- B
UB5LFG	3,386-	81-	12- C	Zana 20				uarjb Rarjd	89,888- 66,665-	37 8 - 266-	53- C 67- C	JH2WHS JH1UBK	936- 630-	26. 30.	12- B 21- B	VK2PWS VK2APK	5,5 86 - 55 8,3 08-	985-	116-C
UBSSBR UBSZME	836- 152-	32- 12-	11- C 4- C	Zone 30	Duanten f	iècec		_	001000		-	JR9GQP	567-	15-	9- B	VK2BQQ	170,352-	419-	84- C
RT1U (RB5M	MF,RT4UM,U			European I		422-	70-A	Zone 34	-00			JF#BNS/# JO1MCC	448- 306-	16- 16-	8-B 9-B	Zone 60			
UT4UZ,UT	T5UGR,ops) 2,517,972-	2402.	วณ. บ้า	UZ4WWQ UA4LFA	22,622- 43,000-	307		Asiatic RSF		***	~ .	JI1UTP	175	7-	7- B	New Zeala	nd		
UB3IWA (RB	951, UB5s IF7		207-2	RA4HKS	24,682-	162-	43- C	UAØLGZ BAØFA	79,730- 244,398-	296- 616-	70-A 77-C	JR3KAH JA1JLP	145-	7.	5- B	ZM2AGY	100,316-	275-	62- C
IOK,IRZ,-0	173-1151,ops)		200 0	UZ4WZA (RW WI,WW,ops	746 WH,YYZ, Si	,UA48 1	MAM,	UAGLH	134,672-	436-	76- C	JATAAT	143- 135-	29 7	15-8 5-8	Zone 61			
4K6Zî (RB5s	1,824,992- s FF,FT,RO40				704,462			PAØFN UZØCWW (UA	7,220	90- -	38-C	JG1GCO	105-	5-	5- B	Zone 61			
FBV,UOSC	OB,ops)			UZ4WWA (RV -095-789,op		s WA, 0	95-729,	CH,ops)	718,750-			JA7YIK (JJ7E	:QY,op) 102-	11-	6- B	Hawaiian k	186,720-	407-	96- A
HB4CWW (B	1,212,405- RB5s QRQ,QI			-030-100,00	525,266-	1262-	119- D	Zene 26				JR1GWE	48-	4-	3-B	AHEKE	13,225-	111-	
	R,-064-866,op	S)		4K48WUR4H		UA4HK	S,	Zone 36 Canary Isla	nde			JR8FLY JF2LTH	20-	2-	2- B 1- B	KH6FKG	495,740-	1438-	70- B
UB4LWA (11	651,598- B5s LPZ,077-		146- D	4K48GA.op	13,57 2 ~	115-	39- D	EASBOR	49,147-	212-	49- B	JA7DLE:	573,362-	1103	118- C	AH6SF	33,251-	165-	41- C
079-345,op	ps)							EASURL (EAS	s BEE,BEZ	Z,BIK,BV	H,ops)	JH7WKQ JEØUXR	507,424		101- C 83- C	Zone 63			
1JB4WZA (+	493,240-	1107-	120- D	Asiatic RS					403,214-	982-	83- D	JENUXA JG1NBD	296,393- 285,105-	792- 701-	83-C 83-C	Easter Isla	nd		
HOTELA (+	478,160-	1053-	139- D	HW9WA UA9FM	1,010,096- 201,766-		144- A 79- A	Zone 37				JA9CWJ	220,506	610	78- C	CEØZIG	45,100-	222-	41- C
UB3JWW (U	JB4s JFV,JJW	JKA,o	ps)	UW9CM	61,902-	260-	57- A	Portugal				JHØGNM 7K1NUX	149,364- 132,131	404. 444.	81- C 71- C	Checklogs			
UB4GWP (+	440,135- + ops)	1452-	95- D	UASQA	386,100-	791-	110- B	CT1QF	28,888-		46 B	JA6AZH	117,975	415-	65- C	4X4VF, CT1T		Dinia	۱O.
	144,768-		78- D	UA9SN RW9AB	289,323- 272,600-		93- B 100- B	CT1AHU	14,430-	85-	37- B	JK1GKG JA1WYQ	63,860- 47,872-	264- 170-	62- C 64- C	EASFFQ, EAS	3FYD, F6GA	AS, HAE	BDD,
UB4IWI (RB4	41VM,RB5iC\ 49,980-	UB5IN, -336	(T.ops) 49- D	UV9FR	59,312-	300-	44- B	Spain				JE2UFF	47,872- 41,580-	260	35- C	HK3LR, IKØLI	M5/190, ISØ	LLJ, JFI	HXKU,
UB4CWA (+		0.30-	45- N	RV9CFA RK9C (UV9C	455,416-	889-	116- C	Spain ED5URN	39,200-	293-	32- A	JABAJE	38,258-	182-	47- C	LA7XB, LA9F OH6GD, OK3	ra, læthx. IKJF. ÖNSF	, UHSF. V, ÖZ1.	A, JLX.
	19,750-	560-	25- D	DUSC (DASC	180,481-			EAIGT	153,144-	636-	72-B	JASHBO JA1RKI	31,700 28,733	148- 126-	50- C 59- C	OZIKWG, OZ	zzji. Ozspa	1, OZBC	ΣX,
UB4VZR (+	ops) 8,496-	114-	36- D	BY9WB	128,498-	341-	94- C	ECSWK	68,944		31- B 29- B	JA7Ji	25,004	86-	76- C	PA3CWR, PA B7ABAL, RA			
	-, 144			UA9AKS UV9FB	84,525- 82, <i>7</i> 82-	391- 322-		EA3GCJ EA3DVJ	31,871- 18,816-		29-B 42-B	JR3XEX JH3JYS	24,000 21,528-	120- 114-	48-0 46-0	FA4LAH, RB	5FA, RB51C	Y, ABS	LM,
Byeloruss	sla			UWSCZ	62,608-	268-	52- C	EASCHT	13,520-	102-	40-B	JR6IMF	21,056-	114-	32- C	RO4OA, RW3	SRO, SM5M	IHC, SN	
UC2DQ	150,777-	483-	99- A	UW9SW	57,564- 45,200-			EA1AHA EA7BYM	6,440- 3,770-		28-8 26-8	JG16PS	20,727	119	47 C	SM7BNG, SM SMØBXT, SM			
RC2CO UC1LWN	81,720- 189,945-	348- 696-	72- A 81- C	IJV9DZ	33,411-	213-	37- C	£ A5GKM	2,660-	47-	14- B	JO1QZI JA2KPV	18,180 17,850	130- 99-	30- C 42- C	SP5NOG, SP	BBAB, MAG	SZ, UA	INDW,
UC3MET	136,990-	471=	95- C	UA9FGJ	15,708-	137-	28- C	EA2BUZ EA7GQZ	1,348- 35,136-	48-	14- B 49- C	JA6ACZ	17.040	98-	40- C	UA1WDQ, UA UA3SDT/RA1	ASAFH, UAS N. UAJAHT	JQAM, [. UA49	PJP.
HC2AY	130,500-	713-	60- C	UZ9CZÓ (UV: 154-2044,oj		154-20	JU7,	EA7AAW	35,136- 21,866-		26- C	JH5OXF JR4I\$K	15.372	106- 69-	36- C 36- C	UA4PKN, UA	4QK, UA4Y	Z, UA9	CDO,
UC2LN UC2AFO	26,531- 13,138-	267- 288-	43- C 42- C	,	113,400-			EA5GFA	15,301-	252-	30- C	JA2QJ	9,180- 8, 55 0-	96-	36- C	UAØKW, UBS	FBN, UB5J	iqa, ue	35J S .
UC2AJQ	12,996-	257-	19- C	UZ9CYP (UZ) 154-2269,0		154-210	3,	EA7CA EA5YU	12,644- 8,242-		29-C 26-C	JA2QVP	6.692	53-	29- C	UBSPAN, UB UC1WWR, U			BOCKE,
	JC2s OE,OL,0 2,716,532-			, UT £207,0	87,516-	372-	51- D	ECZATN	2,892-	71-	12- C	JA3ARM JA9YE	5,481- 3,536-	51. 38-	27- C 26- C	UF7FWM, UI	L7BN, UM90	QWC, L	
	IC2s CBIJ,CE							EA20SJ	2,440		10- C	JL2LPX	2,208-	30-	16- C	UW3QD, UW UZ3AYE, UZ			
				Uzbekistar	1			Zone 39				JI1LNR	1,360	20-	20- C	Y21FA, Y25Z			
009-112,0			202- D	RISSP		one	90- A	TO 33											
	415,110-			HIGGP	269,190-	625-	- C	grael								100LA, 178C	IL, YOSAAC	2, YU4C	12 bir -
		008-256	S,ops)	HISSP	269,190-	927-	30- K	israei 4X6VY	121,923-	463-	57- B					YOBADM, YO	il, yosaac iefgn, yol	ROO	[DST-]