

Results, 2nd IARU HF World Championship

Fun in the sun!

By Billy Lunt, KR1R and Rus Wilson, KC1GX
Contest Manager, ARRL Contest Assistant, ARRL

Despite the "eccentricity" of mid-July activities known to modern man, such as picnics, vacations, swimming, horse-back riding and just lying around in the sun, the IARU HF World Championship has been earmarked a world-class contest. Even though this is the time of year more suited for outside activities and we were plagued with poor conditions and low sunspot numbers, this second annual event amassed 1333 entries, just shy of the total entries received (1397) for the first IARU HF World Championship. Of the four different entry classes, CW-only was the most popular around the world with 469 entries. The second most popular was the phone-only class with 298 entries, followed by mixed mode and multioperator.

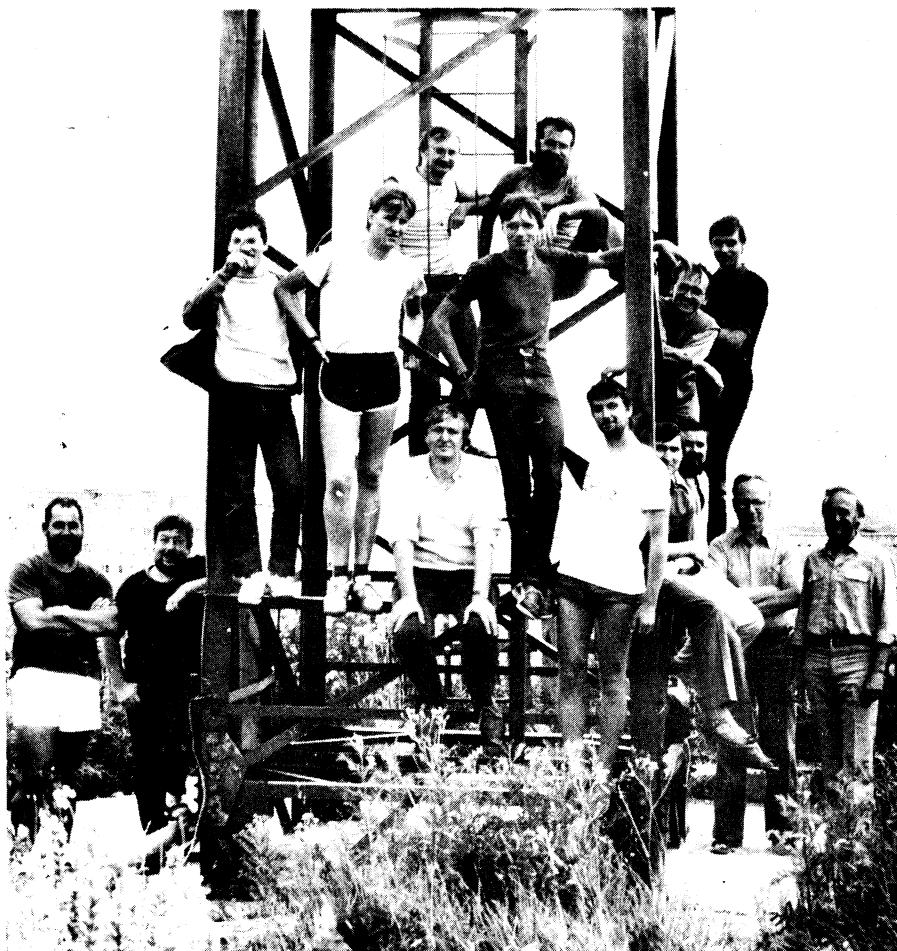
Again this year, IARU member-society HQ stations enjoyed the luxury of counting as multipliers along with ITU zones. Twelve HQ stations joined the fierce competition in their category and sent their logs to Box AAA for checking. The top scorer was HQ9R with 2.49 million points. YQ0A was right on their heels with 2.44 meg. Check the boxes for the full details.

Activity was plentiful this year with a grand total of 549k QSOs and 65k multipliers reported as worked on all bands from all entrants, representing 46 different ITU zones, 74 DXCC countries and 65 ARRL Sections. Not bad for a 24-hour period. The Contest Branch did a bit of figuring and came up with an average score per entry of 106,812 points and an average of 412 QSOs and 49 multipliers. Compare your score with these figures to see how you fared.

The USSR claimed the top three spots amidst the entries in the mixed-mode category. First place went to George, UA1DZ, with 838k points followed closely by Vlad, RB5IM, with 830k points from the Ukraine, and Ivan, UA9TS, in third place with 791k points from Asiatic RSFSR. Rich, K1CC, took stateside top honors and also managed to finish 5th place worldwide. Second-place W/VE was Eric, K3NA, with 391k.

The 1st place phone winner for 1987 was H25MF (5B4MF, op) from Cyprus with 962k and second place world phone was Luis, ZP5JCY, with 754k. Jerry, WB9HAD, was the only statesider to make the world top ten, finishing in 9th place worldwide and 1st place W/VE. Second-place W/VE was Glenn, WA4JXI (WA4SVO, op).

Veteran brass pounder Jorge, LU8DQ, remained as world winner for the CW-only category this year, scoring 774k points. Trying to oust Jorge as king of CW was 4N4A (YU4UE, op) with 764k for a fine 2nd-place finish. Dan, K1TO, finished in 3rd place worldwide and was the 1st-place W/VE finisher with 542k. WØZV, N2IC/Ø and WA6VEF fought it out for 6th, 7th and



The crew from Y61HQ pose for a photo at the base of their 40-meter tower after finishing in 3rd place among the IARU member-society HQ stations. Atop the tower is a rotatable 3-element 40-meter quad.

Top World Scores

Mixed	Phone	CW	Multioperator				
Call	Score	Call	Score				
UA1DZ	838,510	H25MF (5B4MF,op)	LU8DQ	774,520	UB4MZL	2,644,480	
RB5IM	830,592		4N4A (YU4UE,op)	764,272	UZ9WWH	1,298,700	
UA9TS	791,028	ZP5JCY	754,696	K1TO	542,646	HA6GN	1,222,155
YU3EO	646,875	OK2JS	583,836	UL7CW	540,388	HG5A	1,214,640
K1CC	582,400	UA9YX	562,275	UW3AA	489,154	LZ9A	1,167,905
OH6EI	523,584	HA5NP	514,215	W0ZV	481,440	UB3IWA	1,132,620
UW9CO	515,260	K4YT/4D8	479,450	N2IC/0	467,415	UP1BWW	1,086,448
RA9JX	500,112	UQ2GM	454,440	WA6VEF	462,618	UA9AYA	1,055,502
OF6AC (OH6AC,op)	490,104	UT5DK	350,921	UA0SAU	459,200	OK5R	965,172
		WB9HAD	325,234	UP2BW	458,316	HG1S	936,763
UT4UZ	404,178	RB5IA	312,132				

Top W/VE Scores

Mixed	Phone	CW	Multioperator				
Call	Score	Call	Score				
K1CC	582,400	WB9HAD	325,234	K1TO	542,646	N5RM	652,065
K3NA	391,625	WA4JXI (WA4SVO,op)	233,398	W0ZV	481,440	K6JYO	620,620
NSIVF	378,200			N2IC/0	467,415	K5RX	497,028
KM9L	331,078	N4UH	192,192	WA6VEF	462,618	WB8JBM	450,870
WB5BIR	322,047	VE3XN	168,483	AA1K	419,594	KM3T	438,900
KZ5D	293,809	K6SVL	164,362	W1WEF	353,970	K8AZ	417,252
WZ4F	226,336	KY2J	153,370	N4ZC	334,476	K4VX/0	396,700
WD8IXE	220,416	WA5IGD	129,948	KZ2S	300,722	W0KEA	306,336
W6UQF	218,376	VE1CBF	104,370	K3IPK	244,839	N8CXX	305,096
NI8L	131,340	KW6C	72,050	KG5U	233,500	AG8W	292,928
		W5PLN	65,340				

IARU Headquarters Stations

HG9R (13 ops)	2,491,360-	5306-184
YQ0A (Y02BV,Y02GZ,Y03ABL,Y03AC,Y03APJ/9, Y03CD,Y04AVR,Y04BEX,Y04CEM,Y04HW, Y04PX,Y04PZ,Y08BQQ,Y08DDP,Y09BQN, Y09WZ,ops)	2,445,156-	5516-186
Y61HQ (Y21YK,Y22TK,Y23EK,Y24UK,Y25ZO, Y31OA,Y32JK,Y33VL,Y37XJ,Y42LK,Y42MK,ops)	2,287,371-	4750-177
OF1C (OH1s EB,EH,CN,HS,KA,LA,NDA,NSJ, OH6LK,ops)	1,819,323-	4215-141
CX1AA	1,536,892-	2413-131
OE5XXL (OE5s CA,DI,JDL,JTL,KE,ops)	996,768-	2787-144
BY1PK (7 ops)	676,568-	1968-92
W1AW (NG1J,N1CIX,W1OD,NJ2L,NT2X,WA4CMS, KJ4KB,W0PAN,ops)	490,864-	2268-88
JA3RL (JA3AQF,JG3RPL,JI3ERV,JI3OYM,JN3OTE, JR3FRF,JH4NMJ,JR4ISF,ops)	232,651-	1276-73
HB0FL (HB0LL,HB9ASJ,OE9OYT,ops)	3,497-	125-13
PT2AA (PT2CW,op)	3,111-	40-17
EI0RTS (EI2CL,op)	1,760-	36-2

work! See you for the Third IARU HF World Championship on the weekend of July 9-10, 1988. Thanks to Mark R. Burke, KA1MIS, for help in preparing this report.

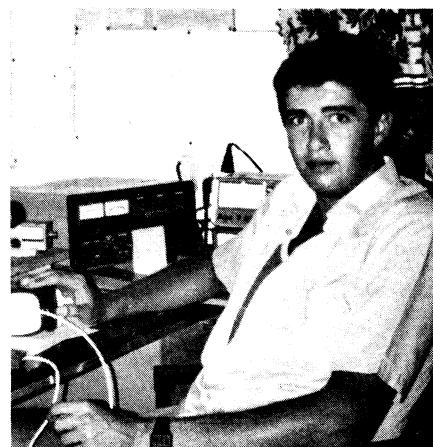
SOAPBOX

Lost five hours at the beginning of the contest due to power loss. Rather poor conditions (UW1BM). I'm sorry to say that propagation was very bad (RV6AF). Best regards to all hams in the contest (UA3QJC). Thanks for a FB contest (UA3DJG). Many thanks for the good contest (UZ3TG). Working conditions were very poor in Kallinin (UA3ICJ). It was great! The kids here in the Tel-Aviv Scouts Club had a very good time. We worked 40 countries and the 24-hour period was a very good idea (4Z6IZ). Thank you for the contest (EA5BZS). Too many people in the contest. You'd better make a single-band group (EA3FWE). Good participa-

tion from radio clubs in different countries. Poor participation in South America (CT1BWW). Let's wait for better propagation (OK5R). Biggest thrill was to work VE1BNM on E-skip (double hop) (DL8PC). Very nice contest. Too bad I missed the 80- and 40-meter possibilities. I sure hope to work the HQ stations next year on 80. CX1AA was a very welcome surprise (PA0VLA). Conditions were generally poor (PA0YN). Nice contest. Conditions were very strange. Just short openings to stations outside of Europe (PA3EMN). Work, sleep and thunderstorms limited my participation. Please hold the contest again and I will take a day off! (GM4HQF). I lost a 3-500Z in the amp only two days before the contest. No spare was available so I had to "barefoot it." The big OH0W antenna farm helped out. I was able to hold a frequency with 150 W output (K8MN/OH0). Bad conditions on the band, but those three Chinese stations were a very nice surprise (OF7XE). My professional activities kept getting in the way. I am a doctor. The contacts came very slow (YW5M). My first IARU Con-



Masaki, JH4UYB, a university medical student, moved up from 3rd place last year to 2nd place in Japan this year.



Looking very relaxed is H25MF (5B4MF,op) after taking 1st place phone-only worldwide. The microphone probably is not cool yet!

test and it won't be my last! For my short time, I really enjoyed myself (KO9Y/5). Between a VE exam and taking the XYL out, I could only spend

a little time in the contest (KA7T). Thanks for a FB contest (UO5OBT). Thanks for a nice contest (UQ2GN). Bad propagation (UQ2CR). Enjoyed the

contest very much and CU next year (UP1BWW). Sorry, poor conditions (UP2OU). Many thanks for a nice contest (UO5OJM).

Scores

Scores are listed by ITU zone and then by country within that zone. The line score (example—NL7P 98,903-363-71-A) indicates the call sign used, the total score, the number of valid contacts, the number of multipliers and the 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	Nevada	WB7VWH	539-	27-	7-B	WB6SYV	20,940-	268-	30-C	KM3T (+WB2EKK, WB3JRU, KC8C)			
Alaska						ZONE 8				438,900- 1297- 105-D			
NL7P	98,903- 363- 71-A					W1				W3GG (+K3YGU, KA3PGL)			
NL7HT	5,339- 63- 19-B	AD7T	33,367-	123-	61-C	K1CC	582,400-	1302-	128-A	242,293- 1042- 79-D			
NL7HI	2,882- 41- 18-B	KA7FEF	3,582-	76-	18-C	KB1XD	9,541-	131-	29-A				
KL7UR	114,944- 456- 64-C					KA1YP	44,574-	341-	48-B				
ZONE 2						K1TO	542,846-	1268-	117-C	Western Pennsylvania			
Alberta		KE7KF	27,224-	207-	41-B	W1WEF	353,970-	1028-	95-C	W4			
VE6DZ	81,951- 385- 59-A					N4XR	71,775-	318-	75-C	Alabama			
VE6APN	21,384- 177- 33-C	KT7G	20,746-	154-	41-A	KA1CV/M	9,022-	135-	26-C	WZ4F			
British Columbia		KR7L	968-	30-	11-B	W1VH	1,500-	50-	10-C	Georgia			
VE7IQ	300- 25- 4-A	K7LXC (NL7GP, op)224,190-	725-	90-C	NJ2L	684-	28-	9-C	W4GLS				
VE7RD	8,220- 68- 30-B	NK7V	4,416-	48-	24-C	Eastern Massachusetts				Kentucky			
VE7QQ	95,084- 401- 68-C					WB2ND	18,084-	115-	44-A	KB4WQO			
ZONE 3						WB1GEK	51,304-	502-	44-B	AA4RX			
Saskatchewan						WA1NPZ	31,680-	240-	44-B	WA4MXD			
VE5AAD	13,195- 142- 29-C	KA5OGA	14,688-	195-	27-B	N6EK1	40,066-	351-	46-C	N4XM			
W5EIJ	1,695-	35-	15-C			W1OPJ	357-	19-	7-C	North Carolina			
ZONE 4						Maine				W4VP			
Quebec		KZ5D	293,809-	368-	101-A	K1SA (+KA1PCM, KQ1V, N1AFC)	24,010-	252-	35-D	N4UH			
VE2XL	3,390- 82- 15-B	WA5IGD	129,948-	622-	68-B	New Hampshire				KA4RVS			
Ontario						W1END	6,783-	79-	19-C	KJ4TI			
VE3OEQ	4,592- 108- 14-A	NC5O	86,671-	499-	59-C	W1LQQ	4,238-	100-	22-C	N4ZC			
VE3XN	168,483- 673- 71-B	A19X	42,065-	307-	47-C	K1PLX	20,514-	311-	26-B	K4PB			
VE3KP	136,512- 611- 64-C	N5EPA (+AG5S, NM5S, WA6OTU)	146,984-	622-	74-D	Rhode Island				Northern Florida			
ZONE 6						W1END	6,783-	79-	19-C	N4BP			
W6						W1LQQ	4,238-	100-	22-C	WD4IO			
East Bay		W5PLN	65,340-	390-	55-B	K1PLX	20,514-	311-	26-B	WA4JXI (WA4SVO, op)			
K6EQ	1,120- 50- 8-B	N5IET	16,272-	154-	36-B	Vermont				233,398- 894- 103-B			
K6CSL	5,520- 82- 24-C	KY5N	16,116-	188-	34-B	NB1A	2,772-	88-	14-A	W4WKQ			
K6ZM (+K6EZ)	237,978- 839- 81-D	NX5H	14,300-	180-	26-C	KB1UE	2,800-	75-	16-B	34,787- 350- 43-B			
Los Angeles		W6UDA	46,128-	291-	48-C	Western Massachusetts				Southern Florida			
N6PB	16,020- 172- 30-A	WC5SW	31,188-	284-	38-C	N1CQ	208,845-	837-	65-C	WK4F			
K6SVL	164,382- 826- 82-B	W5BOX	15,990-	165-	30-C	W2				WD4AHZ			
K6BN	45,210- 266- 55-B	KB5ADE	832-	41-	8-C	Eastern New York				70,776- 389- 72-C			
WS8V	13,300- 139- 28-B	K5RX (+KR0Y, KM5R)	497,028-	1270-	122-D	KC2QF	33,855-	391-	37-A	Tennessee			
Orange						KY2J	153,370-	811-	70-B	K4PR			
NX9M	4,947- 101- 17-A	KF5DA	30,927-	264-	39-A	N2GU	223,082-	865-	71-C	K4JHT			
W6SX	1,690- 73- 13-A	N6CL	19,800-	192-	40-A	N2AZS	42,788-	357-	48-C	K3CQ			
NM6L	11,116- 120- 28-B	NW5H	29,480-	475-	22-B	New York City-Long Island				NU4B (-KA2PGW)			
Santa Barbara						W2GKZ	3,300-	54-	15-A	12,220- 252- 26-D			
WA8FGV	92,684- 567- 52-A	N5IVF	378,200-	831-	124-A	K5ZG	5,382-	75-	26-B	Virginia			
AA4Q/6	7,560- 107- 24-C	W5BIR	322,047-	1178-	98-A	K2RYI	581-	41-	7-B	K4PF			
Santa Clara Valley		KG5U	233,500-	714-	100-C	K2SX	64,428-	384-	59-C	WU4G			
N6NF	45,838- 404- 41-A	KO9Y/5	42,210-	322-	45-C	W2AFM	1,140-	41-	12-C	W4XD			
KW6C	72,050- 439- 55-B	W5NR	4,284-	52-	21-C	Northern New Jersey				20,313- 197- 37-A			
WA8VEF	462,618- 1094- 117-C	NSRM (K2TNO, K5GN, K5EV, N5DU, WBSN, ops)	378,200-	831-	124-A	KT2D	4,715-	75-	23-A	WU4JG			
WW6Z	1,833- 46- 13-C	N5EA (+W5ASP, WX5S, K5RVF, K5XJ)	652,065-	1383-	145-D	K3FNW	27,132-	174-	51-B	W4XD			
San Diego		326,880-	1045-	96-D	W1GD	39,050-	331-	50-B	W8				
W6UQF	218,376- 608- 108-A	W5NR	4,284-	52-	21-C	KC2NF	1,780-	66-	10-B	Michigan			
WN6L	34,400- 276- 43-B	NSRM (K2TNO, K5GN, K5EV, N5DU, WBSN, ops)	378,200-	831-	124-A	N2GSE	658-	47-	14-B	N1BL			
KB6PJU	2,070- 163- 5-B	N5EA (+W5ASP, WX5S, K5RVF, K5XJ)	652,065-	1383-	145-D	KZ2S	300,722-	820-	106-C	131,340- 763- 60-A			
AA8EE	1,280- 37- 12-C	W5NR	4,284-	52-	21-C	N2FVP (+KA2YDZ)	19,203-	157-	37-D	N8CXX (K8JM, N8BTU, NE8T, ops)			
K6JYO (+K6MS, N16W, W6KUT, K9VV)	820,820- 1422- 124-D	NSRM (K2TNO, K5GN, K5EV, N5DU, WBSN, ops)	326,880-	1045-	96-D	Ohio				305,096- 1228- 88-D			
San Francisco						W8BXE	220,416-	958-	84-A	AG8W (A1BD, K8MJZ, ops)			
KU6J	110,305- 529- 65-A	KJ1VZ	538-	28-	8-B	N8BJO	78,012-	502-	68-A	W8BIBM (N24K, KD8NS, KUBE, N8ATR, N8CJ, KW8N, KC8MK, N8DM, WB8PHI, ops)			
K6LRN	9,126- 129- 26-A	W6ZV	481,440-	1108-	120-C	N8BBC	56,108-	331-	52-C	450,870- 425- 133-D			
San Joaquin Valley		N2C10	467,415-	1177-	117-C	K3JU	45,900-	386-	51-C	K8AZ (+K8e MR, NZ, N8AA, WB8HSK)			
WW6O	22,356- 185- 36-B	K4VX/0 (AH2U, KA9YBS, ops)	398,700-	1265-	100-D	W8BKKI	39,300-	286-	50-C	417,252- 1197- 116-D			
WB6ITM	45,216- 271- 48-C	W9KEA (+K9MWM)	306,336-	1002-	96-D	W8DAB	25,284-	265-	42-C	W9			
Sacramento Valley						W8BIBM (N24K, KD8NS, KUBE, N8ATR, N8CJ, KW8N, KC8MK, N8DM, WB8PHI, ops)				Illinois			
N6JV	128,673- 396- 87-C	NU6P	19,002-	334-	22-B	KM9L	331,078-	1314-	101-A	W9DGE			
N6JM	2,896- 36- 21-C	W6PPF	1,848-	42-	12-B	15,147-	263-	27-A	W9HAD				
W7						325,234-	1347-	91-B	KG9Z				
Arizona		KW7GB	27,511-	253-	41-A	W3BGN	91,988-	420-	61-A	5,236-	146-	27-C	NJ9Q
KC7V	10,360- 185- 20-C	NW6F	19,010-	254-	29-C	W3ARK	41,407-	311-	47-A	KA9IMX			
N7HJM	8,772- 168- 17-C	W6RXL	2,142-	36-	21-A	K3ZPG	1,470-	32-	14-B	3,036-	112-	11-C	K9SD (+W9NNE, WB8SBO, K8FU, KA9GGI, ND0F)
Idaho		W6BGFV	153-	23-	3-B	K3IPK	244,839-	765-	89-C	160,461-	883-	81-D	
KA7T	11,826- 128- 27-C	KW9YI	19,344-	219-	31-C	K3ZLK (+KA3a DSX, DSX, PKN, N3a CHL, EUK, KQ3V, WB3s EPW, FYL)	73,700-	593-	50-D				
Montana		WA8QIT (+N6EOB)	16,800-	264-	24-D	Maryland-District of Columbia							
KW7I	4,880- 82- 20-B				K3NA	391,625-	1068-	125-A					
KS7T	64,450- 404- 50-C				W3HXI	53,664-	392-	52-C					
WA8ALQ	3,582- 44- 18-C	AK0G	16,456-	302-	21-A	Wisconsin							

Y32PI	74,022-	430- 73-A	Y06BQT	31,442-	272- 39-B	UA4YJ	74,499-	402- 57-C	UB6BZ	73,440-	314- 80-C
Y32VN	73,150-	387- 70-A	Y02BZV	18,970-	260- 35-B	UA4AGP	73,020-	410- 60-C	UB5QKO	70,446-	450- 56-C
Y22WK	65,104-	563- 52-A	Y09HH	11,550-	208- 21-B	UW6OE	72,072-	328- 63-C	UB5WJ	69,264-	288- 74-C
Y27FN	57,728-	359- 74-A	Y02LAL	10,759-	181- 29-B	UA3AAJ	63,660-	350- 60-C	UB5WAB	68,320-	361- 61-C
Y46WA	57,536-	400- 58-A	Y04US	10,426-	173- 26-B	UA1AFF	60,738-	434- 53-C	UT5UCO	64,736-	296- 68-C
Y68YF	55,715-	405- 55-A	Y04AEQ	8,589-	133- 19-B	RA3VA	60,208-	373- 53-C	UB5ILW	60,829-	366- 59-C
Y31NJ	55,420-	306- 68-A	Y09AHX	7,700-	142- 22-B	UA3DJG	55,593-	257- 71-C	UB5VKO	51,244-	400- 46-C
Y35WF	52,274-	315- 62-A	Y08RBU	5,440-	138- 17-B	UA4NEJ	53,010-	351- 57-C	UB5QJA	47,432-	274- 56-C
Y21WI	48,654-	367- 53-A	Y09BXE	4,945-	107- 216-B	UA4YYA	52,022-	451- 37-C	UB5QJN	38,688-	348- 39-C
Y43RF	43,648-	263- 62-A	Y02ARV	3,292-	317- 46-B	UA4AHA	47,859-	392- 43-C	UB5VK	31,185-	321- 35-C
Y21BE	34,980-	308- 46-A	Y02LBC	3,276-	114- 14-B	RA6AR	41,470-	274- 55-C	UT5UCK	29,216-	289- 32-C
Y51TG	33,524-	228- 58-A	Y03FGG	56-	6- 4-B	RA3NB	39,072-	1056- 37-C	RB5QR	28,557-	209- 49-C
Y26WL	29,980-	199- 56-A	Y04ZF	48,617-	336- 61-C	RA3RD	38,650-	285- 50-C	UB6JS	28,159-	971- 29-C
Y22WDIA	25,774-	194- 49-A	Y08FR	38,736-	353- 48-C	UA4NZ	35,460-	290- 45-C	UB5CN	27,918-	170- 47-C
Y52TF	25,197-	273- 37-A	Y03AAQ	36,771-	287- 51-C	UA3YAO	31,832-	326- 36-C	UB5FCE	27,720-	291- 36-C
Y49OF	14,858-	200- 38-A	Y06EZ	23,347-	260- 37-C	UA6AMC	31,185-	297- 33-C	UB5CDX	26,985-	306- 35-C
Y47YM	12,447-	738- 29-A	Y04BNQ	21,552-	184- 48-C	UZ3TG	30,150-	399- 25-C	UB5JNW	26,740-	293- 28-C
Y24SK/A	11,972-	121- 41-A	Y02DFA	19,116-	252- 36-C	UA1AUA	29,233-	284- 41-C	UB6AJP	26,622-	314- 27-C
Y67UL	11,904-	150- 32-A	Y03BWK	8,480-	80- 30-C	UA4QK	26,829-	304- 33-C	RB5WR	26,412-	274- 31-C
Y24GB/A	11,515-	125- 35-A	Y05ALI	6,890-	111- 26-C	UA3AQO	25,823-	285- 31-C	UB5FGI	26,238-	353- 28-C
Y23RJ	11,319-	150- 33-A	Y02ASY	6,342-	114- 21-C	UA3XN	23,446-	227- 38-C	UB5IPH	23,445-	193- 45-C
Y27BN	8,536-	157- 22-A	Y03BFJ	6,308-	119- 23-C	UA6LTC	23,026-	314- 29-C	UB5QGD	22,626-	268- 27-C
Y22OF	6,531-	182- 21-A	Y02CJX	6,136-	127- 26-C	UA3TAM	18,816-	194- 32-C	UB6YZ	22,127-	358- 94-C
Y23HE/A	6,293-	65- 29-A	Y04DCF	4,440-	111- 15-C	UA4SSS	18,432-	264- 32-C	UB5MMP	21,240-	168- 45-C
Y26JD	5,800-	129- 20-A	Y05ALH	3,878-	107- 14-C	UZ3DYF	17,952-	200- 28-C	UB4IM	19,440-	164- 40-C
Y829M	4,250-	61- 25-A	Y08CHH	3,840-	119- 16-C	UA3YBJ	17,197-	275- 29-C	UY5WA	18,600-	254- 25-C
Y22HF	4,060-	145- 28-A	Y02CGU	1,826-	85- 11-C	UA3EDF	15,088-	270- 41-C	UB5FB	16,791-	321- 37-C
Y27ML	3,933-	53- 19-A	Y02BEO	426-	21- 6-C	UA3PB	8,990-	106- 29-C	RB5AT	16,588-	152- 38-C
Y23CM	2,800-	46- 20-A	Y09HG	392-	21- 8-C	UA3CGR	8,888-	121- 22-C	UB5IDG	13,580-	237- 24-C
Y53OF	2,175-	57- 15-A	Y06BTY	144-	24- 4-C	UA3ICJ	6,894-	129- 18-C	UB5WDD	11,136-	124- 29-C
Y25MO	1,862-	68- 14-A	Y04AAC	112-	12- 4-C	UA1QCC	5,014-	95- 23-C	UB5SEF	10,464-	206- 32-C
Y31PE	384-	18- 8-A	Y06QBK	96-	12- 4-C	UA3PFW	4,394-	175- 13-C	UB5BDC	10,416-	62- 62-C
Y64UF	192-	12- 6-A				UA3MED	3,631-	126- 76-C	RB6JS	4,160-	62- 20-C
Y36SG	125,624-	621- 82-B				RW4LYL (UA4s LU,LAH,LDE,LDL,YO, YDZ,164-221,ops)			UB4IWR	3,645-	70- 15-C
Y46IF	107,948-	705- 61-B	YU3EO	646,875-	1671- 125-A				UB6IF	3,186-	80- 31-C
Y38YK	49,664-	330- 64-B	YU2TY	41,418-	337- 54-A				UB4LDD	2,292-	116- 12-C
Y41JH	47,530-	363- 49-B	YU3HR	292,020-	1120- 93-B				UB5EKQ	1,808-	41- 16-C
Y28SO/A	26,496-	240- 46-B	YU3BU	153,180-	696- 74-B				UZ1RR	558-	33- 6-C
Y49YC/P	24,336-	222- 52-B	4N4A (YU4EU,op)	784,272-	1821- 148-C				UB5CDM	504-	38- 8-C
Y22VI	22,218-	256- 42-B	YU3EA	403,065-	1076- 94-C				UB4MZL (RB4s MB,MF,RB5MT,UB4ML, UB5s MIF,UB5-12,ops)		
Y55KA	18,352-	214- 37-B	Y29X	252,448-	882- 98-C					2,644,480-	2822- 256-D
Y51XO	15,007-	135- 43-B	YU7SF	132,618-	532- 93-C				UB3IWA (RB5II,UB5s IF,IML,INO,IK,Ops)		
Y31LA	9,425-	147- 29-B	YU7KM	39,258-	274- 56-C				1,132,620-	1973- 172-D	
Y43XE	8,580-	114- 33-B	YU5BV	36,720-	353- 40-C				UB3JWW (RB5JD,UB4JFR,UB5JM,ops)		
Y54SF	3,000-	75- 20-B	YU7FT	22,280-	196- 40-C				847,740-	1963- 142-D	
Y44WA	2,880-	80- 16-B	YU1AT	11,418-	182- 22-C				UB4MWA (+ ops)	381,825-	948- 125-D
Y21HB	2,397-	57- 17-B	YT0UNI (YU2s HO,MM,MM,ops)	403,161-	1055- 101-D				UB4IZZ (+ ops)	319,750-	805- 125-D
Y38VK	2,275-	71- 13-B		406,828-	905- 106-D (ops)				UB4QWW (UB5s QD,UB4-886,ops)	310,960-	1020- 92-D
Y25GH/A	1,482-	44- 13-B	Y2T2B (YU2NK,YU2R,YU2RSs 801,805, 4N4B (4 ops)	408,828-	905- 106-D (ops)				UB4EYJ (RB5EEU,UB5s EFU,EPU,ops)	187,488-	834- 72-D
Y25DW	1,216-	32- 16-B		288,052-	1022- 101-D				UB4WZA (+ ops)	186,833-	819- 83-D
Y48ZA	288-	18- 6-B	Y29CAH (3 ops)	107,200-	653- 64-D				UB4ZWB (+ ops)	159,610-	803- 70-D
Y47ZM/P/Y62VM	224-	39- 4-B	YT3L (7 ops)	96,408-	641- 52-D				UB4FWC (+ ops)	148,400-	826- 70-D
Y47ZM/P/Y62UM	168-	15- 6-B	YU4EKK (+ YU4s MH,XA,YT4WE)	34,788-	308- 41-D				UB4TWA (3 ops)	124,246-	821- 74-D
Y21HE	168-	23- 4-B							UB4RWW (RB5s RW,RZ,UB5RU,ops)	114,088-	744- 52-D
Y51XE	341,061-	1053- 109-C							UB3GWG (3 ops)	72,210-	427- 58-D
Y33YA	70,800-	455- 80-C							UB4CWA (3 ops)	56,988-	558- 36-D
Y42DA	59,598-	340- 86-C							UB4IWI (RB5ICY,UB5s INT,IOB,ops)	56,848-	438- 44-D
Y68ZA/Y65XA	19,782-	185- 41-C							UB4VWA (+ ops)	50,018-	360- 48-D
Y24SH/A	19,550-	161- 46-C							UB4MZA (3 ops)	44,792-	315- 44-D
Y27NMA	15,876-	104- 54-C							UB4FX (RB5FK,UB5s 078-672,078- 721,ops)	35,055-	335- 45-D
Y22WF	15,428-	205- 28-C							UB4TWL (UB5s TBN,TBS,UB5-079-2,ops)	32,445-	349- 35-D
Y21DG/A	14,352-	115- 49-C							UB4IYK (3 ops)	9,338-	88- 29-D
Y21CL	14,288-	130- 41-C							UB4NWA (UB5s 057-558,057-557,ops)	7,560-	144- 21-D
Y37ZE	9,504-	118- 36-C							UB4IUM (+ ops)	1,829-	53- 9-D
Y22UB	6,968-	102- 26-C							Byelorussia		
Y21EA	5,125-	90- 25-C							UC1AWC	245,832-	1033- 84-A
Y22IC	4,752-	96- 18-C							UC2OM	101,304-	639- 56-A
Y23GB	4,050-	109- 15-C							UC2AIU	77,292-	446- 57-A
Y24SP	2,955-	99- 15-C							UC2AS	77,292-	446- 57-A
Y32XF	2,652-	60- 17-C							UC2OS	36,630-	319- 45-A
Y53XM	1,830-	63- 10-C							UC2ACT	26,050-	370- 25-A
Y25TG	1,548-	75- 9-C							UC2AB	13,476-	190- 23-A
Y26VG	756-	42- 9-C							RC2AF	103,415-	417- 65-B
Y25XA	630-	34- 9-C							UC2AAD	75,776-	342- 74-B
Y22DK/P	518-	40- 7-C							UC2FAA	43,104-	357- 48-B
Y21HE	451-	7- 5-C							UC2ODW	68,675-	388- 67-C
Y21FL	375-	25- 5-C							UC2WAZ	60,960-	352- 60-C
Y31PA	306-	21- 6-C							UC2WG	51,450-	418- 50-C
Y26EH	184-	27- 7-C							RC2AU	30,315-	284- 43-C
Y23TL/A	12-	4- 2-C							UC2WO	390-	28- 5-C
Y35L (Y26IL,Y33s UL,ZL,ops)	604,044-	1534- 141-D							UC1WXE (+ ops)	12,578-	244- 19-D
Y38I (Y44s UI,XI,ZL,ops)	534,885-	1569- 115-D							Azerbaijan		
Y37I (Y23FI,Y62s WI,ops)	520,910-	1388- 130-D							UD6DKW	17,668-	631- 28-A
Y61ZF (Y41s UF,ZF,Y61UF,ops)	407,164-	1091- 137-D							UD7DWZ (3 ops)	190,592-	992- 64-D
Y56ZF (Y24VF,Y58s VF,YF,ops)	327,635-	1057- 115-D							Armenia		
Y43ZO (Y21R0,Y22XO,Y43GO,ops)	230,289-	1069- 87-D							UG6LO	248,900-	917- 76-B
Y47ZN (+ Y47s MN,YN)	147,030-	738- 78-D							UG7GWB (3 ops)	14,896-	329- 16-D
Y55ZJ (+ Y55TJ)	142,560-	664- 81-D							Moldavia		
Y53ZN/P (Y53s ZN,YN,XN,ops)	93,660-	572- 70-D							RO4OA	11,991-	233- 17-A
Y31ZN/P (Y33s PJ,UJ,11-J,ops)	93,660-	572- 70-D							UO5OC	11,088-	234- 16-B
Y33ZJ/P (Y33s PJ,UJ,11-J,ops)	76,736-	489- 64-D							UO5OJM	69,412-	525- 37-C
Y42CB (Y22YB,Y23UB,Y42VB,ops)	35,391-	314- 47-D							UO5OB	318-	32- 6-C
Y68SF (+ Y68RF)	30,400-	333- 38-D							UO4OZZ (3 ops)	38,250-	389- 34-D
Y87GST (Y23JF,Y27MF,Y65ZF,ops)	10,108-	155- 28-D							Lithuania		
Romania									UP2OU	137,788-	729- 74-A
Y02AB	113,472-	626- 72-A							UP1BWR	5	

UP3BU	184,212-	833- 84-C	Tadzhikistan	EA5BZS	10,048- 108- 32-B	JR1ZTT (JL2ALL,JN1MSO,JP1MWB, JR4MWB, JR5MPM,ops)
UP2BC	117,150- 584-	75-C	UJ8JA	139,386- 380- 78-C	EA3FNI	8,988- 105- 26-B
UP2BZ	111,680- 646-	64-C	UJ8AQ	11,725- 118- 25-C	EA3ELZ	3,666- 99- 13-B
UP2BLQ	104,229- 541-	71-C	UJ9JWA (UJ8s JW,CW,UA9SA,ops)	323,831- 1027- 71-D	EA1AHA	2,464- 56- 16-B
UP2PAQ	98,973- 596-	63-C			EA7BYM	968- 88- 11-B
UP3BA	19,536- 266-	33-C			EA3FXU	364- 20- 7-B
UP2PCF	9,062- 132-	23-C	UL7LYA (UL7s LEG,LEN,LER,LEZ,028-		EA5FWU	19,872- 255- 27-C
UP2BB	7,463- 125-	17-C	UL7BQ	135,415- 451- 73-A	EA3EGV	10,110- 226- 15-C
UP2BNF	1,125- 71-	9-C	UL7OB	253,332- 632- 93-B	EA7AZA	1,752- 38- 12-C
UP2BNL	1,098- 71-	9-C	UL7CW	540,388- 1132- 106-C	ZONE 39	
UP1WBW (UP2s BAS,BIJ,BKW,BMW,BO, PX,038-892,038-1852,ops)	1,086,448- 1986-	176-D	UL8LYA (UL7s LEG,LEN,LER,LEZ,028-		Israel	
UP1BZO (UP2s BOQ,BMX,038-346,038- 1751,038-1787,ops)	612,294-	154- 131-D	576,028-733,ops)	575,224- 1575- 108-D	4X1IF	106,737- 477- 47-A
UP1BGZ (UP2s BCO,BCW,ops)	125,255-	603- 65-D	UL8CW (+ ops)	399,366- 899- 99-D	W3FTY/4X	40,185- 199- 45-A
UP1BYC (+ ops)	102,541- 547-	61-D	UL8LWU (RL7LCU,UL7s BLK,LDR,LGT, 026-513,ops)	148,600- 658- 50-D	4Z4HS (4X6I + 5 ops)	91,400- 392- 50-D
Latvia			UL8PZZ (UL7s PCU,PEA,PEO,023-68, 023-570,ops)		4X5000 (4X8Dk + 3 ops)	4,781- 139- 7-D
UQ2GFM	65,876- 573-	43-A				
UQ2GMR	43,880- 422-	39-A	UM8MO	303,820- 757- 94-B	Cyprus	
UQ2GBH	3,516- 135-	12-A			H25MF (5B4MF,ops)	962,388- 1544- 134-B
UQ2CR	8,738- 703-	41-A	ZONE 31			
UQ2GM	454,440- 1330-	105-B	Asiatic RSFSR		ZONE 41	
UQ2GD	390,302- 1203-	113-C	UA9YX	562,275- 1230- 105-B	India	
UQ2GN	68,508- 427-	66-C	UA9YIE	84,387- 307- 69-C	VU2TJW	19,390- 140- 35-A
RO2GIG	5,090- 175-	14-C	UA9OA	57,708- 380- 36-C	VU2UR	14,404- 138- 26-A
UQ2GEC	1,456- 36-	14-C	UA9UPG	26,004- 274- 22-C	ZONE 44	
UQ1GWX (+ RA3DUU,UC1GXH,UC02-037- 1828)	252,350-	885- 103-D	RA9YQ	11,664- 174- 16-C	Korea	
UQ1GWT (UQ2s GF8,037-563,037-379,ops)	74,690-	339- 97-D	UZ9QWD (UA9s -145-168,-145-294,-145- 338,UA9-183-554,ops)		HL1ABR	53,550- 395- 42-B
UQ1GYT (UQ2s GLZ,GQB,GN9,ops)	13,916-	510- 32-D	280,080- 816- 72-D	HL9HP	41,514- 246- 51-B	
UQ1GY			UZ9HWW (3 ops)	240,968- 1132- 52-D	HL&J (HL1AYE,op)	
			UZ9YXO (+ ops)	176,489- 566- 59-D	8,424- 222- 13-B	
Estonia			Kazakhstan		HL9EP	60,444- 354- 46-C
UR2RY	74,948- 662-	41-A	UL7OF	4,116- 77- 12-A	HL9K (HL1AXK,HL2DN,HL3EAT,HL4CGI, ops)	65,773- 395- 53-D
UR2RMI	344- 13-	8-B	RL7JA	16,038- 130- 33-B	ZONE 45	
RR2RN	114- 18-	3-B	RL7DA	14,450- 101- 34-B	Japan	
UR2RND	74,152- 294-	92-C	UL8GBI	36,050- 339- 25-C	JH1YDT (JH4UTP,op)	
UR2RKQ	16,120- 248-	26-C	UL8GBV	31,314- 318- 34-C	JE1AER	78,482- 389- 54-A
UR1RWX (UR2s RJN,RJ9-083-165,ops)	13,520-	168- 26-D	UL8GWC (UL7s -190-29,-199-51,-199- 53,ops)	5,811- 105- 13-D	JAEZEP	63,232- 282- 52-A
UR1RXT (3 ops)	11,469- 325-	29-D	Kirghizia		JAUOT	56,580- 262- 56-A
ZONE 30			UM8MIZ	74,462- 336- 52-C	JAS9RPU	10,952- 332- 77-A
European Russian RSFSR			ZONE 32		JN1AIF	7,130- 182- 23-A
UA4WEJ	135,415- 585-	71-C	Asiatic RSFSR		JH7BFM	6,440- 78- 26-A
RA4NBG	39,728- 296-	52-C	UA0WW	43,227- 356- 27-A	JAKBNKZ	5,321- 83- 17-A
UA4PJ	6,210- 136-	18-C	UA0SAU	459,200- 942- 112-C	JAA1AT	4,905- 79- 15-A
UZ4WWB (5 ops)	358,530- 1095-	102-D	UA0BL	58,635- 319- 45-C	JAA1UB	3,872- 54- 22-A
UZ4WWG (UQ4s 095-683,095-722,095- 754,ops)	302,511-	1012- 83-D	UA0SY	6,678- 142- 17-C	JAA2QVP	1,404- 24- 13-A
UZ4WWF (UA4s 095-528,095-759,095- 768,095-825,ops)	70,290-	557- 55-D	UZ0AXX (UA0s AMA,AGI,183-216,183-235, 183-712,183-729,ops)		J01LDY	648- 20- 9-A
Asiatic RSFSR			608,894- 1350- 99-D	JH3DPB	81,844- 345- 52-B	
UA9TS	791,028- 1396-	126-A	UZ0OWA (UA0s OCK,OC8,-085-144,ops)	57,365- 270- 55-D	JH4UYB	85,484- 359- 56-B
UW9CO	515,260- 1003-	111-A	ZONE 33		J2BNN	34,732- 222- 38-B
UW9UWB	126,750- 396-	75-A	Asiatic RSFSR		JAA0AD	14,616- 122- 29-B
RA9FA	126,453- 494-	61-A	UA0QHP	41,000- 218- 50-C	J1BUI	10,230- 99- 30-B
UZ9CWP	76,228- 470-	34-A	RA0JD	29,550- 170- 50-C	JABEY	8,004- 68- 29-B
UA9FAR	42,254- 266-	37-A	RA0FB	23,622- 180- 31-C	JA1LSO	6,980- 56- 30-B
UA9AMR	19,175- 87-	85-A	RA0JJ	1,500- 34- 15-C	JH1UUT	5,640- 100- 20-B
UW9LA	102,024- 586-	36-B	ZONE 34		J1L2CE	3,213- 51- 21-B
UW9VB	86,281- 257-	17-B	Asiatic RSFSR		JL1MWI	3,008- 98- 16-B
UA9CE	80,190- 396-	45-B	UW9LI	37,088- 285- 32-A	JF1OZD	1,350- 32- 15-B
UW9CL	80,080- 361-	52-B	UA0FF	80,150- 335- 70-B	JG6LGE	1,335- 27- 15-B
UA9CAW	32,736- 234-	33-B	UW9EX	11,286- 109- 27-B	JE1TTO	44- 5- 4-B
UW9FR	19,120- 174-	24-B	UW9LT	411,584- 888- 118-C	JH7WKQ	385,700- 799- 116-C
RA9SVT	353,632- 964-	86-C	UA0LGK	92,460- 405- 60-C	JR3BOT	156,384- 512- 72-C
UA9ACV	226,561- 691-	71-C	UW9GU	90,790- 381- 70-C	JAC9CWJ	76,616- 290- 62-C
UA9CM	81,600- 315-	60-C	UA0LJ	60,354- 286- 63-C	JE7JZC	51,600- 260- 60-C
UA9FGJ	78,008- 350-	49-C	UA0LT	5,044- 66- 26-C	JAA3ARM	32,148- 146- 57-C
UA9SGN	72,545- 311-	55-C	UZ0FWI (UQ4s FFM,FFT,FM,ops)	216,996- 740- 78-D	JAB6CV	24,860- 132- 44-C
UA9CGL	67,595- 300-	55-C	UZ0IWA (3 ops)	31,188- 192- 46-D	JAF2FP	23,256- 280- 29-C
UA9SAW	66,786- 390-	39-C	ZONE 35		JR7OMD/2	20,835- 119- 45-C
UA9JH	65,312- 507-	28-C	Asiatic RSFSR		JH6TY	19,823- 133- 43-C
UA9MII	59,031- 367-	42-C	UA0QHP	41,000- 218- 50-C	J1WYQ	15,293- 107- 41-C
UW9AZ	48,831- 261-	41-C	UA0ZF	171,836- 555- 76-A	JR3XEX	9,860- 132- 17-C
RA9AE	35,280- 374-	21-C	UA0ZDZ	116,504- 367- 82-B	JH3JYS	8,694- 113- 18-C
UW9CZ	33,220- 268-	35-C	ZONE 36		JAA3EEM	8,550- 81- 25-C
UA9AKS	29,295- 301-	21-C	Canary Islands		JA7ASD	6,652- 63- 24-C
UA9CPC	25,498- 264-	30-C	EA8AMX	13,440- 88- 32-B	JA1OR/M	6,552- 56- 28-B
UA9AOV	8,640- 120-	15-C	EA8TE	4,500- 90- 10-B	JABEJO	6,432- 68- 24-C
UA9AMF	975- 21-	13-C	EA8BIE	52,128- 218- 48-C	JA1QZI	6,210- 62- 27-C
UZ9WWH (RA9s WR,WW,RV9WA,RW9s WA,WW,UA9WD,UW9WR,UW9WK,ops)	1,298,700-	1912- 150-I	EA8BJU	8,551- 105- 17-C	JAF5AF	5,824- 54- 24-C
UA9AYA (UA9-084-422,UM8NR,UA9s AA,AN,AR,AW,AX,ops)	1,055,502-	1788- 126-D	ZONE 37		JG2GLM	5,148- 68- 18-C
UZ9CWW (UA9s CDC,CHR,CIR,CIV,ops)	853,993-	1367- 133-D	Portugal		JAF4FMS	4,532- 54- 22-C
UA9CKE (RA9QCE,UA9s CMC,COB,CPJ, CSS,UV9CP,ops)	818,748-	1572- 114-D	CT1AEQ	5,985- 93- 21-A	JS10SP	3,971- 49- 19-C
UZ9WWS (5 ops)	710,991-	996- 153-D	CSSQF	23,268- 180- 41-B	JG3SVP	1,740- 36- 18-C
UZ9FWR (UA9s FF,FM,PAL,FIKX,ops)	685,462-	1228- 118-D	CT1BWW	22,473- 175- 33-B	JR4ISK	1,391- 29- 13-C
UZ9CYP (UA9s CKF,154-2185,ops)	76,228-	470- 34-D	CT1DIZ	9,792- 100- 34-B	J46BWH	1,352- 26- 13-C
UZ9MWJ (UA9s MAC,MGX,ops)	67,804-	317- 44-D	CT1IBY	2,720- 57- 17-B	J44GX5	1,241- 24- 17-C
Turkmenistan			CT1CWT	9,982- 160- 23-C	J42WF	1,001- 23- 11-C
UH8BBG	11,132-	225- 22-B	Spain		J47MWC	803- 19- 11-C
Uzbekistan			EA3FWE	6,517- 115- 19-A	JA2SAP/1	748- 18- 11-C
UI8ZAA	146,594-	479- 74-B	EA1BGT	90,740- 573- 52-B	JA1NYV	708- 15- 12-C
UI8AFN	27,482-	241- 26-B	EA2CR	23,256- 189- 57-B	JE3CH	640- 16- 10-C
UI8BI	255,240-	793- 72-C	EA3DRO	21,960- 223- 30-B	JAA1AAV	448- 14- 7-C
UI8AHA	19,166-	367- 34-C	EA5CPH	20,372- 143- 44-B	JAK2PKV	189- 7- 7-C
			EA5JC	13,767- 115- 39-B	JK1LUY	100- 7- 4-C
			EA5FH	12,798- 159- 27-B	J43YBF (J3EYAP,J4EBXJL,J9hs GRK, GRM, JFH, JO1IPS, JA9WR,ops)	1,001- 213- 119-D
			EA5EFV	11,256- 88- 42-B	JA1YYX (JQ1BMV,J2GUT,JN3PYQ, JA6-9398,ops)	507,596- 1040- 113-D
			EA5FYE	10,415- 256- 30-B	JA9YVA (JA9VDA,JH9VSU,JA9-18148,ops)	174,201- 1213- 119-D
						174,133- 587- 67-D