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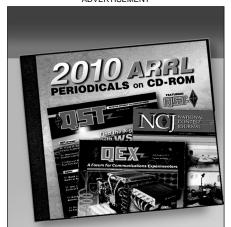
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Results, 8th IARU HF World Championship

I guess it'll be several years before DX conditions get better, but I'll keep trying.—Bill Littlewood, W9HE

By Billy Lunt, KR1R and Contest Manager

Warren C. Stankiewicz, NF1J Assistant Contest Manager

his contest is the cure for the summertime blues! On the weekend of July 10-11, 1993, while thousands spent time sweating in the hot sun, fighting off mosquitoes or getting sunburned at the heach, hams took to their cool basements (or air-conditioned shacks) for a welcome break from the drudgery of mowing lawns and washing cars, to give the International Amateur Radio Union (IARU) HF World Championship a whirl.

Contests attract people for many reasons—some for the competition; some to work DX; others, like Dan, N9XX, get on to collect wallpaper. As he puts it, "Other than for the pure pleasure of getting in the fray, a primary motivator is the award endorsements for 250 QSOs and 50 multipliers. If I could have operated 24 hours, I would have done so. The availability of these awards is reason enough to hang in there a while longer and ferret out another multiplier or one or two more QSOs."

In the DXing department, the group at SU2MT attracted a lot of attention. Not only was it a Zone 38 multiplier, it was a new country for many DXers. Other choice DX spots were active during the contest, such as Market Reef and St Paul Island.

One thing is sure, this contest is fun and it attracts a lot of interest, especially in Europe and among hams in the Commonwealth of Independent States (the former Soviet Union). The key to your score in this contest is how many Europeans you can work. A scan through the Top 10 boxes shows that to make it to the top, you needed

Operating at W1AW is so exciting! Rich Gelber, K2WR, takes an unplanned break from 40 meters, while Brian Szewczyk, NJ1F, hands out multipliers on 15.

to be in Europe (like HAØMM) or in a place where you could work a lot of Europeans (such as 4X/S59PR or PYØFF). In fact, 29 of the top 40 stations worldwide were in Europe.

How did this year's contest go? Conditions were off a bit from last year, and many people remarked that they seemed more like the norm for this contest, at least judging from the past several years. Summer propagation makes for rough going on 80 and 160 meters, and at the present point in the sunspot cycle, there isn't much to work on 10 meters. Yet, even with conditions lacking, activity edged upward by 2.7%. Can it be that contesting is on the rise?

IARU Headquarters Stations

HG93HO (HA1s VO,WD,YA,YU,HG1W,HA5s AWH,BGG,FA,FM,GF,IW,LN,MK,ML,OM,TI,UA,WE,HG5CCC,HA6s DX,FQ,GK,GM,IAB,IOB,KNV,ND,NF,NG,NQ,NY,OB,OI,OO,OO,PN,PX,VH,VR,WI,WP,YR,ZV,HG6GD,HA7s JES,PO,RY,VB,HA8s IE,RG,TK,HA0s DU,NAR,ops) 7,246,498 8598 263

DAGHQ (DL1s AKW,DTL,EMY,IAO,SBR,DL2s DRT,EBX, KDM SAX,SDN,DL3s AOK,ART,DXX,DZZ,OI,RMA,VHF, DL4NAC, DL5s ANT,AOM,ARX,ATD,AXX,LYM,SFI, DL6s CKF,FBL,DF7RX,DJ7AA,DL7sUTA,VNF, WAA,ops) 6,409,408 9098 272

YPØA (YO2s BBT,DFA,GZ,YO3s AC,APJ,CDN,FRI,FU, JF,XL,YO4s AB,ATW,HW,NF,SI,SF,YO6s AWR,CFB, JN,YO8s AXP,BAM,BIG,CMB,RSL,YO9HP,ops) 4,966,200 7318 267

OL1HQ (OK1s ARN,AYP,CF,DFP,DRU,DWX,DXS, FCW,FIA,FMJ,FUA,HH,II,JDX,JJB,MPP,NK,TW,ops) 4,721,888 6518 244 EM5HQ (RB4QR,RB5s QA,QDP,QMA,QRQ,QRW,QW,

UBØQQ.opsi 4 609,375 5302 29 LZ7A (LZ2s AI,AP,PP,UU,ZF,LZ3s AW,BG,DJ,FN,SM, UA,LZ4AX.ops) 2,557,720 4501 22:

OT3H (ON1AKP,ON4s AMI,AXV,KAR,VT,XG,ON5DO, ON6s JG,LO,NL,ON7s BW,SF,ZM,ops) 1,753.092 2970 1

SK3HQ (\$M3\$ BDZ,CER,DMP,RAB,SM0JHF,ops) 1 574,911 2935 169 GB4HQ/GB5HQ (G3s OZF,XMZ,G4s DWW,WNX,ops) 1 593 506 2806 169

1,533,506 2806 1 W1AW (KC1XM,NJ1F,W1WEF,WZ1R,K2WR,KR2J, N2BCC,WB2DIN,K3IPK,N3ADL,ops) 796,543 2577 1

796,543 2577 121
P20A (P29s DX.JA,NAG,ops) 763,767 1399 113
OE1XHQ (OE1s MCU,TKW,YU4JJ.ops) 664,249 1405 151
Z30RSM (Z37CEF.op) 615,600 2485 108
LU4AA (LU1CN,LU5DZ,LU6BDG,ops) 426,829 649 129

425,829 649 129

JA3RL (JA3MAU JE3EIG JG3RPL JI3ERV JJ3WPF JN3s
GLL,VOG JP3LKR JQ3OZY JR4ISF ops)
361,928 1626 92

 PI4AA (PAØLOU,op)
 272,034
 827
 102

 SP3PZK (SP3s AMZ,FEI,FHK,MEP,VKK,VKO.ops)
 146,804
 611
 198

 VE5OST (VE5s JZ,PE,PF,SV,SZU,UO,VA,XP,ops)
 81,770
 696
 37

Many entrants thought that, outside of 20 and 15 meters, conditions were dead, but that wasn't so. Each of the top finishers reported making 100 to 200 contacts on 10 meters, and each made 250 to 300 QSOs on 40 meters. This shows that a band may not be as dead as you think—everyone else might be *listening*, too. There are people who let conditions challenge them and others who challenge the conditions. Which are you? Bill, 5Z4FO, reported, "Who said that 10 meters was dead? I worked VP2EY at 1824Z, a distance of 10,700 km!"

Top Finishers

In the Mixed-Mode competition, Gyozo, HA0MM, fought off a strong challenge from Robert, 4X/S59PR, who had more QSOs, but came up short on multipliers, HA0MM did a great job on 20 and 15 meters; more than 50% of his QSOs were on 20 meters and 25% were on 15. He made 200 QSOs in his first hour on 20, working mostly stations to the east. He was even working stations at a good clip in the wee hours of the morning, 0300 to 0500Z; and he made 162 contacts on 20 in the last hour of the contest.

For Radivoje, YU1RL, operating PYØFF on CW, and Atilano, PY5EG, operating as ZW5B, the story was much the same, although Radivoje made more QSOs on 15 meters than on 20. As they started the contest, 15 meters was wide open to Europe and they made good use of it.



Gyozo Macsuga, HAØMM, looks stunned after his First-Place, Mixed-Mode, World effort.

Top World Scores				
Mixed Mode	CW Only			
Call Score	Call Score			
HAØMM 1,999,404 4X/S59PR 1,862,764 RBSFF 1,313,435 US5I (RBSIM.op) 1,155,684 UT4UZ 1,022,286 LY2IJ 961,665 UA3RAR 839,581 LY1DS 806,494 ZV7A (YT1AD.op) 771,284 GIØKOW 742,560	PYOFF (YU1RL,op) 1,580,436 P40WW (KD6WW,op) 1,410,886 RZ9UA 1,176,751 GB8ZZ (K1ZZ,op) 1,046,760 7Q7XX 964,541 US8I (RB1IZ,op) 955,890 UT5UGR 949,975 SP6YAQ (SP3ASN,op			
Phone Only Call Score	754,120 ZL3GQ 708,698 OH2PM 675,240			
ZW5B (PY5EG,op)	Multioperator			
1,649,071 CT4NH 1,348,032	Call Score			
S52AA 1,309,128 S53EA 1,008,120 ON6TT 947,760 TUSDX 886,816 SZ4BI 820,704 YT7A (YZ7UN,0p) 755,090 GMØECO 734,544 OH1EH 692,664	HG73DX 3,195.000 C49C 2.077,507 LZ5W 1,737,120 UY7E 1,683,045 R6L 1,667,160 UZ6AXS 1,581,085 9A1A 1,470,084 UR8J 1,416,780 US71 1,138,090 IR2W 1,060,785			

North American stations didn't start showing up in their logs until about 1600-1700Z and disappeared about 90 minutes later. PYØFF's somewhat rare location attracted hordes of European stations and being from South America allowed the operator there to make a larger number of five-point OSOs.

Headquarters Stations

In the IARU Member-Society Headquarters Stations competition, the group from MRASZ in Hungary, HG93HQ, rolled up another bonecrushing score, finishing with 7.2 million points. The Germans of the Deutscher ARC, operating DAØHQ, put in a good effort, again finishing ahead on QSOs, but behind by 11 multipliers and the important three- and five-point contacts. All together, 18 IARU member-societies handed out multipliers this year.

Let your friends suffer in the heat while you have a good time—the next IARU HF World Championship is July 9-10. Be on the air; you'll have a good time! Thanks to Contest Assistant Anne Jaworski for her help in preparing these results.

SOAPBOX

Conditions were poor and I didn't get a lot of sleep. I'll see you next year from somewhere else! (HBØ/DL7VOA). Three days before the contest, storms wiped out my electricity! I was forced to use generator during most of my operating time. When the electricity eventually came back on, the HF bands were too noisy to continue, forcing me to stop (NØUAX). I enjoyed the contest and look forward to my certificate (JK1AJX). This is a great contest! (VK2ARJ). Ten meters was dead the entire weekend (VK2AYD). I encountered many familiar call signs and many new ones. I had a lot of fun and I'm already looking forward to next year (ZL2AGY). The conditions were ordinary, but we had a lot of fun (OK5A). After last year's good propagation, we went back to the "normal" lousy conditions of previous years (P2ØA). Conditions were worse than last year, but this was no big surprise (VK2APK). It was a good contest, but this



Javier Campos Jr, AH6MM, was part of the team that put OJØ/OH1VR on Market Reef on the air for the contest.



Robert Kasca, 4X/S59PR, put up a strong fight for first place in the Mixed-Mode category, finishing just short of the top spot.



The crew at OK5A found it easier to participate with someone else helping to take care of cooking and other details. Shown here are (I-r) Vitek Kuncar, OK2PSZ; Jana; Sarka; and Zdeno Sterbacek, OK2PZW.

year it was awfully tough to pull the Europeans through from here (VEGBIR). I wanted more from the IARU contest, but the passing electrical storms prevented that (NØFBA). Propagation was good to Africa! (OH2BLF). It was a pleasure to work this contest, even though propagation wasn't always friendly (YOSBQ). The conditions on high bands were poor, but I enjoyed the contest (JAIBNW). Conditions on the equator were very poor during the contest, and as a result, I fell far short of my scores over the past two years (5Z4BI). This wasn't my day to contest. Band conditions were poor at the tart, I got stung by a wasp, and after the band opened up, my power amplifier gave up the ghost

Top W/V	E Scores				
Mixed Mo	ode	CW Only			
Call	Score	Call	Score		
N5NMX N4ZC N6IP N6NF WA5OYU W1GD KZ1M K8UNP K06CEX AG8L	342,503 246,468 233,714 228,420 208,350 180,395 175,316 154,133 131,436 127,682	K5GN N2BA (K8H KT3Y N6TH K5MR W6YA AA6TT WZ3Q K4LTA N8LXS	622,636 fVT,op) 617,856 520,028 512,556 437,895 431,760 397,116 377,330 284,695 280,462		
Phone Or	nly	40141			
Call	Score	Multiope			
KW8N K5X! WB2K N6WLX/8 WB2NQT AA4NU KE2JO KB2R WM2V NB1B	489,041 387,436 352,108 184,675 164,528 141,911 133,668 116,578 115,344 115,068	Call WX0X W5WMU K5NA K9SD KN2T K93F W4AQL K6XT KR0B W6AQ	Score 840,420 766,035 666,624 448,008 403,920 397,167 395,460 392,730 380,928 337,120		

with a bang! I'm hoping for better luck next year (VE3CWE). The contest was great! See you next year (KJSCZ). I worked the contest with my 20meter dipole in the attic and 100 watts, which partially accounts for my poor signal and poor showing. Many thanks to all who persevered to pull me through and give me another contact (AA3CN). This is my first contest. I was overwhelmed by "mike fright" at the start (HASCAC). It was a nice contest and we're already looking forward to next year (9A ICED). We were happy to take part in the IARU contest (UZ9CYA). We were surprised to have better rates on CW than on phone! Conditions were poor on the lower bands (C49C). Conditions were poor this year. Let's hope they'll be better next year (DL2DRZ). After three hours into the contest, I discovered that my 20-meter antenna wasn't working well. My brother tried to fix the quad, but without luck (\$51DX). The conditions were poor, but I enjoyed the contest (UA3DPX). The contest was fun, but the bands were terrible. It was great to work SU2MT on 40 meters (K9SD), I enjoyed the contest despite the poor conditions and I'm looking forward to next year (VE3EL). This is always a good contest, but DX conditions this time were only a shadow of those of last year. Only a few DX stations received here had an \$7 signal and most were \$5-6. I was lucky to be received with an S5, judging from the trouble some had in getting my call sign correct. I guess it'll be several years before DX conditions get better, but I'll keep trying (W9HE). During the night, propagation was down, but we decided to go on, as this is a nice contest (CT3EE). Conditions were so poor that I didn't work a single JA on 15 meters. I still can't believe it! (OH1EH). Even Marconi would have flipped the switch on this one! (N6PEQ). This contest is one of my favorites and the closest thing to a perfect contest. The multipliers are numerous enough to be fun, and the point system lets you work Stateside when conditions are poor and still put together a decent score (KB4GID). I enjoyed operating for a few hours while on vacation (EI/G4BUO). The conditions were more challenging this year (AA2GS). I thought it was a great contest! (LZ3HI). Thanks to all for an enjoyable contest (LZ2HM). Because of too much work at the office, I got a late start in the contest. I need to get a new job that doesn't interfere with contesting so much! I worked some VKs on 15 meters at 0525Z long after the band had closed for everyone else (K5XI). Despite poor HF conditions, it was again a great contest (F6IIE), it was fun and I was pleased to take part in this worldwide contest operating QRP! (UL7IDX). To my regret, I was unable to break the pileup and work SU2MT (JF3IUC). This is my first contest after many years off the air. Lenjoyed it and I like the 24-hour format (KW8J). This contest is one of the nicest. It was fun for all the operators (UR8I). I heard a lot of weak stations calling from Europe on 20, but I couldn't copy most of them (KE2JO). Band conditions were terrible and my old amplifier

bit the bucket (KAIJ). Conditions were poor during the contest period (GØNKL). I lost a lot of time because of electrical storms (N6QLQ/YB5), 1 used the occasion to have a homecoming event for past Louisiana contesters and I hope to make this an annual event (W5WMU). This was my first time participating in this contest and I had a great time (WQ2M), It was a good contest. I was pleased to receive an award for last year's operation (PAOMIR). This was our first effort! We look forward to next year (SU2MT). The conditions on 21 and 28 MHz were poor (5NØMVE). The conditions on 20 meters weren't very good in the morning, but improved as the day went on. I ended up staying on 20 meters because 15 and 10 meters seemed dead. I found a lot of activity and plenty of new stations to work and as usual, it was a fun contest (AAØNB). The contest was nice, but the conditions were not! (OH3OJ). Conditions weren't too bad and as usual, it's always fun to participate (DL8PC). Conditions weren't too good this year (YL2SW), We entered this contest for the first time as multiops and, needless to say, we had lots of fun! (KN2T). Propagation was significantly worse compared to last year. I found almost no JA or Stateside stations on 15 meters, but I had a good Stateside pilenp on 20 meters (ON6TT). I enjoyed the con-



Pat Sonnier, W5WMU, held a reunion of Lousiana contesters over the weekend with (I-r) Jim Moore, WU3V; Randy Davis, WØMJ; Pat; and Dan Edwards, W5XZ.

test! The basement ham shack I have was a comfortable place to be during our July heat wave (KAIUEH). This is my first DXpedition. I operated on the beach! (K4VUD/KP2). Even though the conditions to the US and Japan were poor, I did enjoy the contest (UT4UZ). I can only hope for better conditions next year than we had this year (N7JXS). I didn't hear a single W or JA on 10 or 15 meters, so conditions were rather poor (LA4YW). Murphy struck! The amplifier failed on the second QSO, the beam got tangled with the inverted V and wouldn't rotate, I forgot to set the computer time to UTC and I had a power failure. Conditions varied from bad to worse. I never heard a single W/VE on 15 meters (KL7Y). I enjoyed the contest, despite terrible propagation conditions here in Denmark. The skip length seemed to get shorter and shorter all the time, so much so that at the end, I think I was talking to myself! (OZZZZZ). It was a nice contest, but conditions were poor. I only hope they II improve next year because I'll be there! (ON4ZD). I enjoyed operating from a different place than usual, it was fun. My only regret was not having had the opportunity to go head-to-head with Al, G3FXB (KIZZ). It was good tun. A thunderstorm took out the power for about two hours and I had to sleep a little, but all else went fine (AA5ZQ).

Scores

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

Zone 1					W6YA	431,760	986		C
Alaska					WeMVW	26,724	178	51	Č
KL7FAP	1 205	20	40	А	NGAZE ABGNE	8,091 4,131	93 89	29 17	C
GL7FAP GL7Y	1,785 373,248	29 978	15	Ĝ	KEXT (+N6AY		C) W	17	٠,
mer I	10 to 10 to 10	970	71,7	•		392,730	957		
one 2					N6KI (+AB6PL KF6BL,KZ6)			WF	F,
liberta					MLODE NED	125,862	549	66	Đ
E69IR	15,365	126	35	A	6 5				
E6BF	94,316	373	73	6	San Francis AAbDX	15,678	134		,.
British Colu	mhia						134	38	C
/E7XO	11.502	114	24	В	San Joaqui				
/67UF	106,128	399	66	Č	KC6CEX WW8O	131,436	580	54 28	AB
						14,644	143	58	D
Zone 3					Sacrament				
Manitoba					NewR	7,455	107	21	8
VE4RP	12,768	146	24	В	K6FO	25,116	162	45	Ç
/£4VV	116,638	647	58	Ç	W7				
Saskatchew	ЯD				Arizona				
/ESSF	37,940	349	35	A	WA7LNW	103,500	398	69	A
i sanorije i	21.0-14	.,-0	13.3	~	N7JXS	43.195	270	53	٨
one 4					NN7A	8,613	111	27	C
					ldaho				
Ontario					KAZŢ	69.130	329	62	C
/EBOWE /EBIEE	8.586 8.988	96 99	27 24	A	Montana				
reset.	15,965	126	31	B	KS7T	25,010	204	41	C
/F3KP	181.602	808	#1	Ç	_	89,010	204	41	U
E32TH	4 914	60	21	C	Oregon				
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Zone 6					W7YAQ N7XMZ	258 774 10.540	659 174	118 20	0
V6						10.540	174	24	~
					Utah				
ast Bay	ALC: A		~	p+	Kexo	109,634	447	82	A
.K6XA	608	22	8	В	W7HS	33,672	196	61	*
.os Angeles					Western W				
CU6T	29,751	181	47	A	WA7FOE	114,057	531	99	B
V6IBP KM6YX	15,456 58,212	84 360	48 54	A B	N7LOX K7LED	77,184 64,170	360 357	72	0
(BOY	49.192	141	88	č	N7RVD	2.560	148	21	č
MBAQ I+KABSA	AH,N6DLU	,WA6	OTU		WA6NKQ	106,957	741	67	D
KJ6HO (+K6SV	337,120	925	110	D					
V:040 1+V62A	L,KAUNAL 98,946	.) 454	69	Ď	Zone 7				
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Orange					Arkansas				
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Nemal	52,499	361	47	č	Louisiana				_
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_	76.025	803	(9	Ü	W5WMU (+WI				•
Santa Barba						766,035			C
VARFGV	77,567	547	49	À	Mississipp	i			
V6TKF V6BKY	41,779	369	41 38	A C	WASOYU	208,350	759	90	А
	15,922	150	35	Ç,	N5KKG	25,650	141	50	e
Santa Clara					KBSOHT	8.232	114	24	Ċ
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Oklahoma					
KAORNY	11,455	133	29	Ą	
N5RXF	58,310	374	49	В	
South Texas					
NSNMX	342,503	1013	113	A	
NSBP	33,476	103	38	À	
143mm	23,410	100.0	- 20	B	
K5XI	387,436	804			
NTSD	16,124	178	29	В	
KSGN	622,636	1221	148	C	
NØDH	115,350	508	75	C:	
WEASP	59,050	377	50	Ċ	
N251	34,609	257	48	č	
KSEC	8,018	120	19	×	
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WQ5Y (+NZ5V)	87,318	∴26	77	U	
wø					
Colorado					
KOONB	9,282	54	38	В	
AAGTT	397,116	1045	108	C	
WYOU	69,100	468	56	C	
KIER	19,698	169	42	č	
DIED	19,080	107	46		
lowa					
KOCAV	91,900	257	44	A	
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WBOYJY NWOF AAGJS NOFMR	19 305 51 596 42,480 17 208	181 359 332 170	33 58 45 36	A	
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WBOYJY NWOF AAGJS NOFMR NOVAJ	19 305 51 596 42,480 17 208	181 359 332 170	33 58 45 36	A G G	
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WBOYJY NWOF AAGUS NOFMR NOVAJ Minnesota	19 305 61,596 42,480 17,208 16,544	181 359 332 170 197	33 58 48 36 32	A 0000	
WBOYJY NWOF AACUS NOFMR NOVAJ Minnesota KROB (+AF91,K	19 305 51,596 42,480 17,208 16,544	181 359 332 170 197 UOB,R	33 58 45 36 32	A0000	
WBOYJY NWOF AAGUS NOFMR NOVAJ Minnesota	19 305 61,596 42,480 17,208 16,544	181 359 332 170 197 UOB,R	33 58 45 36 32	A 0000	
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WBOYJY NWOF AAGJS NOEMR NOVAJ Minnesota KROB (+AF91,K NOBKL) Missouri	19 305 61 596 42,480 17 208 16,544 AQUZV,K 360,928	181 350 332 170 197 JOB,R 1226	33 58 46 36 32 32 SOT 95	A 0000 D	
WBOYJY NWOF AAGUS NOFMR NOVAJ Minnesota KROB (+AF91,K NOBKL) Missouri AAON9	18 305 61,596 42,480 17,208 16,644 (AQUZV,K 360,928	181 350 332 170 197 JOB,R 1226	33 58 46 36 32 32 801 95	AGGGG D	
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WBOYJY NWOF AAGUS NOFMR NOVAJ Minnesota KROB (+AF91,K NOBKL) Missouri AAON8 WCOY	19 305 51,596 42,480 17,208 16,544 (AQUZV,K 380,928	181 359 332 170 197 198,k 1226	33 58 46 36 32 30 30 46 77	ACCCC D AC	
WBOYJY NWOF AAGUS NOFMR NOVAJ Minnesota KROB (*AF91,K NOBKL) Missouri AAON9 WGOY KMOL	19 305 51,596 42,480 17,208 16,544 (AQUZV,K 380,928	181 359 332 170 197 198,k 1226	33 58 46 36 32 SOT 96 16 77 65	ACCCC D AC	
WBOYJT NWOF AAGUS NOFMR NOVAJ Minnesota KROB (+AF91,K NOBKL) Missouri AAONB WCOY KMOL WSPL/O	19 305 61 596 42 480 17 208 16,544 AQUZV,k 380,928 3,024 128 898 69 160 63 178	181 350 332 170 197 JOB,K 1226 58 546 318 357	33 58 45 36 32 501 95 16 77 62	AGGGG D	
WBOYJY NWOF AAGUS NOFMR NOVAJ Minnesota KROB (*AF91,K NOBKL) Missouri AAON9 WGOY KMOL	19 305 61 596 42 480 17 208 16,544 AQUZV K 360,928 3,024 128 898 69 160 63 178 (X3N,WX	181 359 332 170 197 308,K 1226 546 318 957 96,op	33 58 45 36 32 86 77 65 62 81	A0000 D A000	
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WBOYJT NWOF NOEMR NOEMR NOEMS MINNESOTA KROB (#AF91,K NOBKL) MISSOUTI AAONB WCOY KMOL WPPL/O WXOX (K4VX,W	19 305 61 596 42 480 17 208 16,644 AQUZV,k 360,928 3,024 128,898 69 167 63 177 83N,WX 840,420	181 359 332 170 197 308,K 1226 546 318 957 96,op	33 58 45 36 32 86 77 65 62 81	A0000 D A000	
WBGYJT NWOF NOWA NOEMR NOWAJ Minnesota KROB (+AF91,K NOBKL) Missouri AAONB WCOY KMOL W9PL/O WXOX (K4VX,W	19 305 61,596 42,480 17,208 16,544 AQUZV,k 360,928 3,024 128,898 69 1678 (X3N,WX 840,420	181 359 332 1797 197 308,8 1226 65 546 318 357 96,000 1492	33 58 36 36 32 56 77 65 62 88	A0000 D A000	
WBGYJT NWOF NOWA NOEMR NOWAJ Minnesota KROB (+AF91,K NOBKL) Missouri AAONB WCOY KMOL W9PL/O WXOX (K4VX,W	19 305 61,596 42,480 17,208 16,544 AQUZV,k 360,928 3,024 128,898 69 1678 (X3N,WX 840,420	181 359 332 1797 197 308,8 1226 65 546 318 357 96,000 1492	33 58 45 36 32 86 77 65 62 81	A0000 D A000 D	
WBOYJT NWOF NOCHR NOCHR NOVAJ Minnesota KROB (AF91,K NOSKL) Missouri AAONB WCDY KMOL WSPLV WYOX (K4VX,W NOTH Dakot	19 305 61 596 42,480 17 208 16,544 AQUZV K 360,928 3,024 128,898 63 178 3,024 128,898 63 178 3,024 128,898 63 178 3,024 178,787 240,420	181 359 170 197 197 308,k 1226 68 546 318 957 96,opi 1492	33 58 45 36 32 36 32 45 36 32 45 45 36 32 45 45 45 45 45 45 45 45 45 45 45 45 45	A0000 D A000 6 C	
WBGYJT NWOF NOWA NOEMR NOWAJ Minnesota KROB (+AF91,K NOBKL) Missouri AAONB WCOY KMOL W9PL/O WXOX (K4VX,W	19 305 61,596 42,480 17,208 16,544 AQUZV,k 360,928 3,024 128,898 69 1678 (X3N,WX 840,420	181 359 170 197 197 308,k 1226 68 546 318 957 96,opi 1492	33 58 36 36 32 56 77 65 62 88	A0000 D A000 D	
WBOYJT NWOF NOOMR NOOMR NOOMR MINNESOTA KROB (AAF91,K NOBKL) MISSOUTI AAONB KROY KMOL WEDVICKEYVK WYOX (KEVX,W NORTH DAKOT WBOO NOFBA	19 305 61 596 42,480 17 208 16,544 AQUZV K 360,928 3,024 128,898 63 178 3,024 128,898 63 178 3,024 128,898 63 178 3,024 178,787 240,420	181 359 170 197 197 308,k 1226 68 546 318 957 96,opi 1492	33 58 45 36 32 36 32 45 36 32 45 45 36 32 45 45 45 45 45 45 45 45 45 45 45 45 45	A0000 D A000 6 C	
WB07JT NW0F NW0F NOFMR NOVAJ Minnesota KR0B (#AF91,K NO8KL) Missouri AAONB WC0Y KMOL WPPL/O WXCX (K4VX,W North Dakota WB0O NOFBA Nebraska	19 305 61 596 42 480 17 208 16,544 AQUZV.K 360,928 3,024 128,898 69 160 63 178 X30,9X 840,420 8	191 359 332 170 197 197 596,84 596,951 96,051 1492 450 73	33 58 45 55 35 55 55 62 88 161 59 10	A0000 D A000 6 00	
WBOYJT NWOF AACJS NOFMR NOFMR NOVAJ Minnesota KROB (AAF91,K NOSKL) Missouri AAONB WCDY KMOL WSPL/O WYOX (K4VX,W NORTH Dakota WBOO NOFBA Nebraska AKOG	19 305 61 596 42 480 17 208 16,544 AQUZV.K 360,928 3,024 128,898 69 160 63 178 X30,9X 840,420 8	191 359 332 170 197 197 596,84 596,951 96,051 1492 450 73	33 58 456 352 456 352 456 52 456 52 16 59 16 16 16 16 16 16 16 16 16 16 16 16 16	A0000 D A000 D CO A	
WB07JT NW0F NW0F NOFMR NOVAJ Minnesota KR0B (#AF91,K NO8KL) Missouri AAONB WC0Y KMOL WPPL/O WXCX (K4VX,W North Dakota WB0O NOFBA Nebraska	19 305 61 596 42,480 17 208 16,544 AQUZV K 360,928 3,024 128,898 63 178 3,024 128,898 63 178 3,024 128,898 63 178 3,024 178,787 240,420	191 359 332 170 197 197 596,84 596,951 96,051 1492 450 73	33 58 45 55 35 55 55 62 88 161 59 10	A0000 D A000 D CC AB	
WBOYJT NWOF AACJS NOFMR NOFMR NOVAJ Minnesota KROB (AAF91,K NOSKL) Missouri AAONB WCDY KMOL WSPL/O WYOX (K4VX,W NORTH Dakota WBOO NOFBA Nebraska AKOG	19 305 61 596 42 480 17 208 16,544 AQUZV.K 360,928 3,024 128,898 69 160 63 178 X30,9X 840,420 8	191 359 332 170 197 197 596,84 596,951 96,051 1492 450 73	33 58 456 352 456 352 456 52 456 52 16 59 16 16 16 16 16 16 16 16 16 16 16 16 16	A0000 D A000 D CO A	
WBOYJT NWOF NOWAL NOEMR NOVAJ Minnesota KROB (#AF91,K NOBKL) Missouri AAON8 WCOY KMOL WPPL/O WXCX (KAVX,W North Dakoti WBOO NOFBA NEDRAKA AKOG NOFBA	19 305 61 56 42 480 17 208 16,544 AQUZV R 360,928 3,024 128,898 69 160 63 178 X30,928 40 420 2 178 1 890 17 118	181 359 332 170 197 197 256 546 318 357 95,000 1492 450 73	33 58 45 55 52 55 55 56 57 65 62 56 57 65 62 57 65 62 57 65 62 62 62 62 62 62 62 62 62 62 62 62 62	A0000 D A000 D CC AB	
WBOYJT NWOF NOCHR NOCHR NOVAJ Minnesota KROB (AF91,K NOBKL) Missouri AAONB WCDY KMOL WSPLV WYOX (K4VX,W North Dakota WBOO NOFBA Nebraska AKOG NULX AKOG	19 305 61 56 42 480 17 208 16,544 AQUZV R 360,928 3,024 128,898 69 160 63 178 X30,928 40 420 2 178 1 890 17 118	181 359 332 170 197 197 256 546 318 357 95,000 1492 450 73	33 58 45 55 52 55 55 56 57 65 62 56 57 65 62 57 65 62 57 65 62 62 62 62 62 62 62 62 62 62 62 62 62	A0000 D A000 D CC AB	
WBOYJT NWOF NOWAL NOEMR NOVAJ Minnesota KROB (#AF91,K NOBKL) Missouri AAON8 WCOY KMOL WPPL/O WXCX (KAVX,W North Dakoti WBOO NOFBA NEDRAKA AKOG NOFBA	19 305 61 56 42 480 17 208 16,544 AQUZV R 360,928 3,024 128,898 69 160 63 178 X30,928 40 420 2 178 1 890 17 118	181 359 332 170 197 197 256 546 318 357 95,000 1492 450 73	33 58 45 55 52 55 55 56 57 65 62 56 57 65 62 57 65 62 57 65 62 62 62 62 62 62 62 62 62 62 62 62 62	A0000 D A000 D CC AB	
WBOYJT NWOF NOWAL NOEMR NOVAJ Minnesota KROB (#AF91,K NOBKL) Missouri AAONB WCOY KMOL WYPOY WYOX (K4VX,W North Dakot WBOO NOFBA Nebraska AKOG NOUAX AKOI	19 305 61 56 42 480 17 208 16,544 AQUZV R 360,928 3,024 128,898 69 160 63 178 X30,928 40 420 2 178 1 890 17 118	181 359 332 170 197 197 256 546 318 357 95,000 1492 450 73	33 58 45 55 52 55 55 56 57 65 62 56 57 65 62 57 65 62 57 65 62 62 62 62 62 62 62 62 62 62 62 62 62	A0000 D A000 D CC AB	
WBOYJT NWOF NOCHR NOCHR NOVAJ Minnesota KROB (AF91,K NOBKL) Missouri AAONB WCDY KMOL WSPLV WYOX (K4VX,W North Dakota WBOO NOFBA Nebraska AKOG NULX AKOG	19 305 61 56 42 480 17 208 16,544 AQUZV R 360,928 3,024 128,898 69 160 63 178 X30,928 40 420 2 178 1 890 17 118	181 359 332 170 197 197 256 546 318 357 95,000 1492 450 73	33 58 45 55 52 55 55 56 57 65 62 56 57 65 62 57 65 62 57 65 62 62 62 62 62 62 62 62 62 62 62 62 62	A0000 D A000 D CC AB	
WBOYJY NWOF NOWAL NOEMR NOVAJ Minnesota KROB (#AF91,K NOBKL) Missouri AAON8 WCOY KMOL WEPL/O WYXOX (KAYX,W North Dakota WBOO NOEBA Nebraska AKOG NOUAX AKOI ZONE 8 W1	19 305 61 56 42 480 17 208 16,544 AQUZV R 360,928 3,024 128,898 69 160 63 178 X30,928 40 420 2 178 1 890 17 118	181 359 332 170 197 197 256 546 318 357 95,000 1492 450 73	33 58 45 55 52 55 55 56 57 65 62 56 57 65 62 57 65 62 57 65 62 62 62 62 62 62 62 62 62 62 62 62 62	A0000 D A000 D CC AB	
WB07JT NW0F NW0F NOFMR NOVAJ Minnesota KR0B (#AF91,K NOBKL) Missouri AAON8 WC0Y KMOL WSPL/O WXCX (K4VX,W North Dakota WB00 NOFBA Nebraska AKOG NGUAX AKOG NGUAX AKOG OCCORNOSE W1 Connecticut	19 305-61 596-61 596-61 596-61 596-61 596-61 598-61	181 359 335 170 197 197 208,699 1492 450 73 220 24	33 58 45 55 52 55 55 56 57 65 62 56 57 65 62 57 65 62 57 65 62 62 62 62 62 62 62 62 62 62 62 62 62	A0000 D A000 D CC AB	
WBOYJT NWOF NOWAR NOEMR NOWAJ Minnesota KROB (AF91,K NOBKL) Missouri AAONB WCDY KMOL WSPLO WSOX WSOX NOTED DENO WSOX NOFEA NEDISEA AKOG NOUAX AKOI ZONE & WT Connecticut WEGGI	19 305-642-460-17-208-642-460-17-208-64-208-9-28-3-69-160-63-178-48-9-28-8-9-160-17-118-9-0-17-118-	181 350 332 197 197 198, K 546 318 354 318 354 318 318 318 32 32 34 32 32 32 34 34 34 34 34 34 34 34 34 34 34 34 34	33 58 45 56 32 16 57 65 62 88 16 16 27 56 16	ADDDO D ADDD D CC ABO	
WB07JT NW0F NW0F NOFMR NOVAJ Minnesota KR0B (#AF91,K NOBKL) Missouri AAON8 WC0Y KMOL WSPL/O WXCX (K4VX,W North Dakota WB00 NOFBA Nebraska AKOG NGUAX AKOG NGUAX AKOG OCCORNOSE W1 Connecticut	19 305-61 596-61 596-61 596-61 596-61 596-61 598-61	181 350 332 197 197 198, K 546 318 354 318 354 318 318 318 32 32 34 32 32 32 34 34 34 34 34 34 34 34 34 34 34 34 34	33 45 56 32 56 777 662 5 16 16 16 16 16 16 16 16 16 16 16 16 16	A0000 D A000 D CC AB	
WBOYJT NWOF NOWAR NOEMR NOWAJ Minnesota KROB (AF91,K NOBKL) Missouri AAONB WCDY KMOL WSPLO WSOX WSOX NOTED DENO WSOX NOFEA NEDISEA AKOG NOUAX AKOI ZONE & WT Connecticut WEGGI	19 305-642-460-17-208-642-460-17-208-64-208-9-28-3-69-160-63-178-48-9-28-8-9-160-17-118-9-0-17-118-	181 350 332 197 197 198, K 546 318 354 318 354 318 318 318 32 32 34 32 32 32 34 34 34 34 34 34 34 34 34 34 34 34 34	33 58 45 56 32 16 57 65 62 88 16 16 27 56 16	ADDDO D ADDD D CC ABO	

KIKI	116,444	376	86	C	AB2E	131.740	508	70	¢
CATWIE	35,292	237	51	O	N2PLE	62,170	262	83	¢
I4XR	8.172	65	36	Ç	KBJGLI	23,136	118	411	Ç
V N1MBK	4,180	71	50	C	KN2T (+KD2)	KN2L,N2R)	IM)		
IR1L (+KA10)	48,KC1ZN) 188,250	700	25	D		403,970	560	110	Ľ,
			4.0	v	Western N	ew York			
astern Ma					KB2DE	29,172	161	52	E
BULF	16,687	139	41 77	A B	KW2J	87,725	437	55	Ţ,
B2A	116,578	530			WZOMV	19,775	169	35	Ĺ
1818	115,068	376	25	8	₩ Ø VI <i>)/2</i>	3,918	44	2Z	Ć
716M 16EK/1	2,925 40.596	6? 278	15 51	S C	W3				
Asine					Delaware				
	20.000	773	04		NY3G	44,900	304	50	,
IY18 (A1UEH	38,650 1,076	94	50	Ç.	WNSK	132,164	541	76	ť
VATWER	720	28	11	Ç					_
		-	*	7.º	Eastern Po				
lew Hamps					Waggn	110,260	456	74	4
V.11 X	47,750	271	50	٨	WI3P	19,647	163	37 78	É
QIU	.0 522	178	3.1	В	FARQLE	90,714			E
BIAJY	40,480	292	44	ç	KB3TS A33CN	48,216 3 834	205	56	6
WATCH	20,498	206	37	Ğ	KLZHIR/3	51,380	300	66	C
.etT	17 934	112	59	Ğ	N3OZB	91,490 298	وږ	3	ť.
≀hode Islar					KSSF (+NET)		1103	123	Ľ
(1PLX	27 693	413	72	B	Maryland i	oc			
/ermont					wzać	377,330	1044	97	ţ
VE1U	39,216	250	43	А	MACER	28,861	199	49	٤.
VW1B	4,403	63	17	8	K31,FX	9.225	79	41	Ç
IW1S	117,710	498	79	Ö	Watux	8,710	85	ţŎ	C
Vestern Ma	ssachua	etts			Western P	ennsylvai	air		
CZ1M	175 316	584	82	А	wwas.	23,554	145	48	P
ATEY	27.824	178	47	В	W3YEY	15,279	127	3.3	E
VE1B (+KA1E		,,,,	**	-	N3GSÜ	2 190	63	30	Ë
e so the situation	116.374	686	62	D	N3NCs	2,329	39	17	P
BIW (+NET)	37,971	465	29	б	WB0IWG/3	16	2	=	Ē
W2					KSUA	10	-3	3	Ľ
Eastern Ne	u Vark				W4				
AAAGS	74.998	306	77	Á	Alabama				
(2ONP	91.053	369	47	Ä	W4NTI	5,486	48	23	,
(F2JA	31,213	309	49	Ä	KK4SM	78,408	302	81	ť,
IZBA (KBHVT		***	-,-	-	Georgia				
	517,856		128	¢	-	22.00	4414-4	74	,
OSUN+) ANC	KY2J,JA9	SY			KI4XO KAPIC	64.97± 33.894	201 303	42	í
	566,624	1480	128	Ů.	AC4PQ	2,329	43	17	9
VI2N (+AA2B.					KD3GC	20,034	116	53	8
	196,740	590	θÜ	O	WG4P	2,041	55	13	Ē
IYC Long I	sland				KN4QV	44,389	517	73	Č
VM2V	115,344	408	81	в	KB4G(D	70,915	409	65	¢
YARSYN	40.590	2/0	45	ĕ	A4BAI	41,232	323	48	(
ZKIT	8,274	104	21	ĕ	W4ZYO	79,187	125	68	Ç
NAOSN	6.216	88	44	₿	W4BTZ	774	36	9	Ç
LMHSA	16,802	583	54	Ċ	W4AQL (WA	4ABY N7FY1 395,460			L) ''
iorthern N	ew Jerse	У			Kantualar				
V160	180,395	441	109	A	Kentucky	74.4**	***		
45INN	6.345	81	27	4	-VA4QMQ	31,374	207	42	1
VB2K	352,108	844	113	8	A841Q	12,847	105	50	Ę
VA2VYA	168,10≨	542	44	Ç:	N4XM	91,874	455	71	C
A2EM	27,267	129	61	¢	North Care	olina			
MSK1W	14,040	141	40	Ġ	N47C		ket!		ė
VAZWYR	13,545	91	43	Ç:	N4ZC KQ4XP	246,468 35,840	503 172	40	Ź
	98,945	431	7.7	D		33,640			
YZĞD (+NETI		4.71			レクタファウ	4 4	120	19.65	- 7
YZGD (+NETI YZGD (+NETI		431	41	D	KC4ZZC KB4MIL	17,54 8 9,693	139	35 27	The second

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Southern New Jersey

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Northern F				Aruba	SM7HSP 7.308 81 28 B SM6AHU 3.474 63 18 B	PA3BBP 48,290 264 53 A PAULM 225,533 897 77 B	HABAT 38,340 302 45 C
W4W1O	21,996	190	39 A	P40WW (KD6WW,op) 1.410,886 2161 134 C	SM7TUG 240,464 675 112 C	PAOMIR 106,488 379 102 B	HA6NW 13,630 153 29 C HA4FV 7,758 216 18 C
South Caro		000	25.4	Anguilla	SM3CCM 122,496 408 96 C SM06DS 63,636 272 76 C	PAØKHS 63,796 278 82 B PA3GAB 28,236 543 52 B	HG73DX (HA1s AH,DAC DAE,TJ, TW.HG1DALops)
KC4UH W4JKC			62 A 28 C	VP2F/AA3B 569,375 1261 75 C	SKOPA (SMODZH,op) 37,446 160 79 C	PA3CWB 12,750 147 30 B	3,195,000 3862 250 D
Southern F	lorida			Turks and Caicos Islands	SM5DUT 32,509 181 59 C	PAODJ 3,480 66 20 B	HA1KRR (HA1s DRR,XO,XU,ZN. ZZ,ops) 931,765 1068 103 D
KSUNP WO4ÁHZ	154,133 93,666		97 A 67 C	VP5JM 411,912 1076 108 B	SM5RE 21 417 197 33 C 5LOCB (SM1TDE SMØs MXO,NZY,	PA3BTH 25,110 164 54 C PA3GBQ 19,912 154 38 C	HA3KHC (+ops) £68,254 852 126. D
WB4TUH	58,736		96 C	Cayman Islands	TXT,ops) = 583,968 1378 132 D SKUHS/5 (SM5ARL,SM0MPV,ops)	PIATUE (PA3s EZI.,GBU,GBV,GEZ, GIQ 4S6DU,ops)	HA5KEH (+HA5BVD) 148,762 624 77 D
Tennessee				ZF2JI (K4IIF,op) 202,020 676 78 B	190,008 527 117 D	309,232 984 88 D	Switzerland
AA4NU KERJO	141,911 133,668			7	Zone 19	PI4COM (PA3s BBP,DMH,ERC,GBQ, PB0AIU.ops) 276,500 913 100 D	HB9AAA 286,770 620 121 B
KA4IWG	68,748 7,502	253	74 B	Zone 12	European Russia	7000 20	HB9DX 132,714 466 101 C HB9DFY 57,200 280 84 C
WB4PHW K4LIA	284,695	913	22 B 97 C	Colombia HK3JJH 379,428 923 84 B	RZ1AWF (RV1AD,UA1AKM,ops)	Zone 28 Croatia	HB9CVO 38,226 802 69 C
N4IR N1CWR	63,126 30,527		42 C 49 C	Peru	485,013 1160 127 D	9A3ZO 34,397 264 59 A	H69KC 5,973 61 33 C Liechtenstein
W4TYU WA6KUI/4 (+K	11,484		33 C	OA4ANR 296,464 575 112 B	Zone 20	9A2TX 10,498 126 29 B 9A/OK2QX 42,210 285 67 C	HBQ/DL7VOA 251,275 704 115 C
11101101111	36,846	263	46 O	OA4ZV 121,952 350 74 C	Asiatic Russia	9A1CLH 19 082 159 47 C	Italy
Virginia				Venezuela YV5NCJ 87,758 500 36 B	UA9XF 90,060° 345 60 A RA9XF 29,970 217 30 B	9A3SM 12,390 118 42 C 9A1A (9A2s AW,DO,HL,HO,LJ,MP,	(qo,YIUSI) ASDI
WB4UBD WB2NQT	8.091 164,628		29 A 104 B	YV10PK 86,121 295 63 B	UA9XL 16,000 115 32 8 UA9XC 80,256 405 44 C	MY,NJ,RA,SD,YW,9A3NR, PA3DZN,ops)	178,344 649 72 A IUDPAW (IKØSHF,op)
N4MM N3PG	105 161 4,216	340	63 B 17 B	YV5NCK 29,792 162 38 B YV4EYA 5,900 60 25 B	RA9XX 49,024 332 32 C	1,470,084 2464 154 D 9A1CED (+ops) 212,006 1128 71 D	167,286 581 98 A IK2VJF 42,104 280 76 A
KT3Y	520,028	1185	116 C	YVIOB 10.744 74 34 C	Zone 21	Federal Republic of Germany	IKØTXF 9,936 154 27 A IBØC 525,625 1215 125 B
WA4PGM K4FPF	57,024 48,840	254	55 C	Zone 13	Asiatic Russia	DL3VZL 131,565 461 105 A	IN3ZNR 481,500 1089 125 B
W2OF8/4 W4XD	32,340 30,358		44 C 43 C	Brazil	RA08R 14,456 124 25 8	DL7VOG 116,287 385 103 A DL2AYI 78,126 384 87 A	IR3S (IV3TQE,op) 453,914 927 146 B
K1SE	5,947		19 C	ZV7A (YT1AD.op) 771.284 1315 122 A	UA9KDZ 32 4 4 C UZ9KWI (UA9s KCJ,KDZ,KEK,ops)	DF2UQ 74,400 338 80 A DK2OY 72,576 340 84 A	K1HSS
W5				Fernando de Noronha	2,352 37 16 O	DLOMFL 45,980 223 76 A	66,726 433 66 B IV3FSG 59,345 233 83 B
Mississippi		446	.12 ()	PYOFF 1,580,436 2082 156 C	Zone 26	DL1DWT 35,200 160 80 A DL6CiA 25,925 125 61 A	K6RHT 38,286 263 54 B
KB5IXI (+NET)	11,692	110	37 U	7 44	Asiatic Russia	DL1EV 24,402 102 83 A DL1ATO 20,075 118 55 A	IKØSHE 38,216 205 68 B I8IQM/IL7 26,411 251 49 B
W8 Michigan				Zone 14	4K4POL/A 48,300 267 42 C	DL7DE 19,608 109 57 A	IK2UCK 22,715 155 55 B IK2EXA 15,288 118 49 B
AG8L	127,882	511		Chile CE5BPE 5,116 45 33 B	Zone 27	DL5JRA 14,703 170 29 A DL6DVU 6,903 140 39 A	iK5PWC 10,092 128 29 B
KBOLK AABAV	42,903 93,632	241		Argentina	Zone 27 Ireland	DL8PC 621,560 1124 164 B DL2ARD 381,612 884 154 B	14CSP 5,880 6,7 30 B (K4BSK 3,125 51 25 B
KBCV	8,144		95 C	LU6ETB 606 320 906 143 B	El/G48UO 46,421 275 61 C	DL9JDT 253,920 644 115 B DL6KY 131,040 421 117 B	1KØLSV 2,700 44 25 B 1K2RDS 2,363 45 17 B
Ohio				(.U2NI 280,398 583 102 B (.U2OC 71,820 515 28 B	France	DL1EK 123,900 502 75 B	IKØHBN 234,000 670 117 C IØZUT 228,228 694 114 C
KBBNTY	69,020 14,924		68 A 28 A	LU2DKN 26,650 I16 50 B LU4FD 220,156 691 65 C	F5NBX 4,266 85 18 A F5PXQ 152,720 532 92 B	DG3BAF 121,770 351 165 B DL6ET 108,388 416 79 B	IK5TSS 144,886 396 131 C
KW8N N6WLX/8	489,041 184,675	1043	133 B	LU1EWL 540 14 10 C	F5PRH 89,120 352 80 B	DL6OBQ 103,584 411 96 B DL1JPL 91,432 370 88 B	IK8EJN/IL7 66,002 500 61 C IK0ADY 57,333 283 87 C
NSLXS	280,462	894	91 C	Zone 15	FSPCX 59,792 258 74 B F8WE 57,222 273 66 B	DL8SDC 47 530 259 70 B DL3PP 40,144 270 52 B	(K3QAR 49,844 242 56 C (K2KW 10,752 92 42 C
NG8D KW8J	118,950 51,597	287	65 C 63 C	Brazil	F1MYH 55,887 445 39 B FE1JBF 36,504 234 52 B	DL8MEJ 38,934 258 63 B	IR2W (I2s EOW, VXJ, IK2s OFH, EGL,
- KBSJ - WBIQ (+WD9IN	41,305 NFI	253	56 C	ZW5B (PY5EG,op)	TM9C (F5IN _c op)	DJ4FU 22,857 167 57 5 DF5NF 19,089 111 63 B	OHG.ops) 1,060,785 2015 165 D IK66OB (+I6FLD,IK6QON)
WAROSE (+Na	313,017	801	103 D	1,549,071 2091 163 B PY2APO 27 678 116 53 B	621,500 1466 100 C FIGUE 221,254 656 113 C	DK3ML 14,641 61 37 8 DL1HSR 11,417 101 49 B	685,131 1583 139 0 (O2L (I2OKL,IK2s NCJ,PFL,QEI,ops)
THOODE (HIL	73,140	337	60 D	PY2HF 5,597 47 29 C PROR (PP5s ATA, ID.JR, WG, ZYZ,	F6IIE 199,284 630 104 C F5RAB 34,782 193 62 C	DF5BX 6.815 89 43 B	641,060 1501 140 D (O1A (+NET) 396,417 949 129 D
West Virgin				ops) 347,248 828 88 D	F6EQV 12.880 141 28 G F01SIH (+FD1BOP,F5PGP)	DK7IN 8,446 98 41 B	Sardinia
K8OQL N8II	72,562 30,816	304 190	73 A 48 C	Zone 18	731,393 1656 127 D	DL3(V 7,560 80 42 B DKOUL (DL2SDQ)op)	ISOOMH 82,880 510 70 C
KV#S	12,460				FF5OJ (FD1s RRX,RWM,ops) 271,309 825 97 D	1.740 48 15 B DL3WB 1.350 35 18 B	Bulgaria
W9				Norway EA8KHA 73.521 367 63 8	FD1AXL (+F1QZF,F6LQJ) 102,600 698 54 D	DL6KVA 262,960 600 152 C	1,Z1ZX 332,296 873 146 A 1,Z3Hl 142,272 644 96 A
Illinois kamms	117.925	476	E0 A	LAZEIA 28,098 225 42 B LA9DFA 9,996 149 21 8	F/N9HZQ (+YO4FLJ) 77,626 361 74 D	DL2DXX 156,728 531 88 C	LZ10Q 116.753 562 91 A
NEØP/9	4,416	75	23 A	LA3WEA 6,916 99 29 8	England	OL1JF 130,152 403 102 C OK3GI 128,583 383 117 C	1.Z2FM 35.278 225 62 A
KD9CN N9RQU	46,748 3,879	49		LA2AD 5,439 85 21 B LA4YW 167,258 592 91 C	G4KIV 344,894 889 122 A	DL4VAD 123,840 272 64 C DL4HRM 114,930 488 90 C	L22HM 75,816 376 76 B L21DM 14,186 140 41 B
N9RUC NA1R	424 121,380	42 486	4 B 85 O	LA7DIA 33,402 261 38 C LA2HFA 32,391 195 61 C	G4PKP 337,952 966,118 B G0KTN 14,448 105 48 B	DL7CF 103,500 285 115 C	LZ1BJ 352,933 1105 127 C LZ8C 101,516 468 82 C
KA1J K9SD (KC9AL,	65,619	327	69 C	LA6PB 20,515 133 55 G	GB8ZZ (K1ZZ,op) 1,046,750 1748 165 C	DL9JZN 71,500 260,100 C	LZEDL 50,064 214 B4 C
KWØA,ops)	448,008	1020	132 0	LASUG 18,392 132 44 C LASAP 6,838 95 26 C	G3SWH 210,786 578 84 C	DL7BQ 65,610 324 81 C DL3AWJ 60,188 270 82 C	LZ1FJ 192 10 8 C LZ5W (LZ1s BP,DB,MC,QJ,PQ,YE,
Narch (+Aya	(3G) 49,952	323	56 D	Aland Island	G3SXW 162,588 486 102 C G3ESF 145,635 465 95 C	DL7VOX 53.580 198 95 C DL5SVB 50,735 267 73 C	LZ3s NO,ZZ,ops) 1,737,120 2425 231 D
Indiana				OHOBVF (OH2BVF,op) 87,482 588 43 C	GSDFV 66,112 321 64 C G4MVA 57,750 252 77 C	DJ1FH 50,400 268 60 C DL7VBM 43,656 216 68 C	Austria
N9DHN RBØC	1,331 23.862		11 A 41 B	OHØ/LA9HFA 16,660 337 17 C	GG/WC6U 14,080 146 32 C GGNKL (G7,JTT,GDs FOD,MPJ,OFD,	DL1ZO 39,813 230 69 C	OE1KYW 46,020 307 60 A
Wisconsin	43.502	176	71 P	Finland	SBV SZI,opsi 50,176 306 49 D	DL1ALN 34,495 226 64 C DJ6BN 32,656 226 52 C	OE3EMN 211,932 566 126 C
NE8J	65 633			QH6WZ 719,468 1291 164 A QH2BLF 182,160 547 110 A	Northern Ireland	DL2RUG 26,390 173 58 C DL4JYT 21,318 198 57 C	OE9SLH 28,920 146 60 C
KB9S	11,832 90,937	114	34 A	OH7NW 46,728 242 66 A OH1EH 692,664 1442 147 B	GIOKOW 742.560 1752 136 A GIOSAP 52,416 396 36 B	DL2HRA 18,200 128 50 C DF3QN 9,768 108 37 C	Czech Republic OK1FKV 117,782 485 94 A
N9XX W9HE	34,476 22,550	593	52 G	OH3OJ 470,468 1275 115 B OH6SU 40,968 181 72 B	Scotland	DL2VLA/P 8,674 101 96 C	OK20B 113,904 345 112 A
47 147 Cha	೯.೭ ,ನನ೮		71 0	OH2PM 675,240 i169 170 C	GM0ECO 734,544 1643 144 B	DL2DRZ 8,225 59 47 C DJ5GG 2,208 62 13 C	OK1KT 112,528 447 104 A OK2VWB 88,255 303 95 A
Zone 9				OH6NIO 395,280 976 120 C OH3AB (OH3MMF,op)	GM3BCL 23,464 144 56 B GM3CFS 41,496 290 42 C	DJ2YE 1,808 53 16 C DL1ARJ 1,260 34 15 C	OK1ZTW 69,120 302 80 A OK1AUJ/P 65,886 341 79 A
Maritime Ne			ce -	358,912 918 128 C OH8LAE 296,584 680 131 C	Wales	DL3KWR 1,106 31 14 C DL3DRN 70 24 18 C	OK2SWD 31,561 281 37 A OK1JDJ 1,258 24 17 A
VO1SF VE1IW	67,984 15,024	172	24 C	OH2YL 28,458 156 54 C OH3NM 18,944 158 37 C	GW4BLE 52,377 305 61 B GWØAJI 05,434 183 64 B	DL7UFR 48 4 4 C	OK2KMR 61,746 274 82 B
W9OA/VE1	1,490	41	10 C	OH6UP 250 13 10 C	GW3CSA (G1AOF,G4WSE,G6s IEQ,	DKOBP (DL2MEH,DL3KDV,epsi 707,664 1278 184 - D	OK18B 34.224 268 46 B OK2PGL 27,744 254 34 B
Quebec NM7N/VE2 (+N	NADDKI			OH5PA 20 2 2 C	KXL,opsi 253.092 955 64 D	DKOOG /DL2RMC,DL3M8G, DF7RG,opsi 373,888 1105 127 D	OK2BJL 2,190 52 15 B OK1XW 266,978 673 131 C
1414111AAE\$ (+1)	47.600	360	40 0	Market Reef OJØ/OH1VR (+OH6LI:AH6MM)	Belgium ON4ACW 33,488 207 56 A	DLOGVM (DL1SWG,DL4s SUA,SVA,	OK28PO 131.131 637 77 C OK1MNV 77,910 263 98 C
St Paul Isla				408,270 1500 93 D	ON6TT 847,760 1547 165 B	DJ61J.DK7XS,opsi 383,367 927 141 D	OK26WJ 75,129 388 79 G
MASS/CA8	81,243	616	29 A	Denmark	ONSGQ 147,680 460,104 B ONSCJM (WO2M,op)	DL9AW (+DL2OBO,DL3OBL) 281,050 813 108 D	OK1FHI 71,810 311 86 C OK1FPS 57,991 296 31 C
Zone 11				OZ5ABO 18,468 123 54 A OZ1APA 16,660 104 66 A	105,210 395 90 B ON4SS 56,932 303 42 B	DLØMBG (DL1AUB,DL8s AKA,AYI, ops) 212,978 24 108 D	OK26ND 60,656 338 68 C OK16PG 34,203 360 38 C
Martinique				OZ9AAR 127,900 537 /6 B	ON5CZ 28.210 163 62 B ON7BJ 25.600 324 32 B	DADHDM (DK3EP,DL9s GF8,GKJ,	OK2BNF 30,459 303 39 C OK2PLH 18,845 280 91 C
FM5CW	82.020	367	80 C	OZ2ZZZ 67,875 281 75 B	ON48R 8.896 94 32 B	Ops) 121,968 653 88 D DEOFHW/P (DH18 PAA, AAZ,	OK1AXB 11,820 115 30 C
Dominican			•	OZ9SIG 22,272 166 48 B OZ1ACB 11,254 111 34 B	ON6CW 181,240 572 92 C ON4ALW 90,153 325 63 C	DH2FAZ,DL5PK,DL8WM.ops) 117,504 472 96 D	OK1AOU 6,230 71 35 C OK2PJD 5,586 94 21 C
HIBOMA	52.536		44 B	OZ1FMO 2,800 42 28 B OZ8RO 69,881 267 67 C	ON4ZD 62,770 304 69 C ON4AHI 72,933 350 69 C	DLØSOP (DL3KUD, DL8KWS, ops) 105,659 493 83 D	OK5A (OK2s PSZ,PZW,ops) 842,340 1725 139 D
Panama				OZ8×Q 2,033 41 19 G	ON4ASW 62,720 304 70 C	DL5XAT (+DL9XAT)	Slovakía
HP1AC	54,670	216	70 G	OZSDX 630 18 7 C OZSUR 245 15 7 C	ON4KRO \$2,796 286 67 C	44,480 271 64 D	OM3YLA 152,460 540 99 A
Honduras	6.000		4 4 12	Sweden	ON6TJ 9,112 100 34 C ON6AH (+ON5PV,ON6MH,ON7PC)	Hungary HAOMM 199,404 2366 242 A	OM3CDZ 93,054 480 78 A OM3YCA 92,496 361 94 A
HRZJAE	3,332	58	17 B	SM6NJK 515,304 1088 153 A	579,988 1376 (22 D OT3B (ON4OE,ON6VK,ops)	HA5CAC 1,287 35 11 B	OM3TEG 37,422 230 63 A
Grenada			44.2	SM3JLA 270,020 772 115 A SM3PZG 257,408 609 128 A	191,412 694 78 D	HA8RH 553,401 1175 153 C HA5MY 500,214 1106 159 C	OM3CTX 15,204 162 42 A OM3CRH 17,820 119 60 B
33/GT3FN	2,517	83	14 A	SM3AF 22,568 154 52 A	ONSII (+NET) 31,950 154 71 D	HA71M 332,696 1000 104 C	OM3CCC 105,833 417 91 C
Virgin Islan K4VUO/KP2	1 ds -11.268	298	38 #	SKOHB (\$MØSYP,cp) (98,360 702 87 B	Netherlands	HA4FB 196,745 679 109 C HA9SU 111,650 434 77 C	OM3TAY 26,122 264 37 C OM3CA6 19,639 195 41 C
· · · · · · · · · · · · · · · · · · ·		,+	*** ***	SM3LIV 64.050 303 70 B	PA3FNE 165.290 500 106 A	HAODD 84,480 295 96 G	OM3CNS 8 025 94 25 C

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OM3TUM 3,120 82 20 C	HA3DFP 41,106 384 39 A	HW9\$W 345,032 668118 C	Когеа	Zone 50
OM3KFF (OM3s TLU.TPG,TRG,ops) 913,869 1805 153 D	UA6BPJ 193,494 646 102 B UA4NC (17,900 405 100 B	UA9AKS 53,680 217 44 C HV9CE 28,520 151 46 C	HL93AP 15,469 139 31 C	Philippines
OMSRKA (OMS& CPC,CQR,TOP,	UV3DCR 83,168 276 113 8 RASHK 61,915 353 61 B	UZ9CYA (+ops) 51,600 250 50 D	HLOK (HL1s LME,LUL,ODG,HL2IDN, HL3EAT,opsi 55,990 294 55 D	DU9RG 230,400 549 90 B
TTZ,ops) 785,876 1247 182 D Slovenia	RW3DW 31,280 752 40 B	Kazakhstan	Hong Kong	DU7AFT 372 14 6 B
SS7UN 195,378 690 103 A	HA3DNG 10.808 143 28 B UA4AVN 4,655 106 19 B	UL7OB 449.800 1004 104 B UN9LCV 99 9 3 B	VS6BG 201,432 808 84 C	Zone 52
\$53AA 128,065 539 83 A \$51DX 108,576 464 78 A	RA3XO 283,290 714,142 C UV61.NW 162,526 588 81 C	UL7IDX 76,322 289 62 C	7000 AS	Angola
\$58MU 53,061 315 73 A	UA3YAO 150,100 541 100 G		Zone 45	D2EYE 12,857 115 23 A D28A ≥80,080 1179 48 B
S52AA 1,309,126 1919 182 B S53EA 1,008,120 1824 155 B	RA3PP 125,045 505 89 C RA3XA 96,280 390 83 C	Kirghizia UM8MFO 25,410 186 33 B	J apan JH7PKU 446,939 1027 107 A	DEGG COOLUMN TELEVISION
\$53ZO 384,356 1000 106 B \$57BU 227,395 735 89 C	RA4HRL 60,900 264 75 C RA6YJ 55,015 173 85 C		JK1GKG 122,490 389 90 A JR4GPA 107,267 497 67 A	Zone 53
SS7JZ 37,736 290 53 0	UV3DRU 58,332 166 98 G	Zone 31	JF3PLF 55,037 265 47 A	Malawi
Poland	RA1WJ 14,856 243 24 C UA3MIF 13,020 213 20 C	Asiatic Russia	JA1BUI 34,816 148 68 A JL4CMT 29,986 217 42 A	7Q7XX 964,541 1801 109 C
5N3A 613,284 1236 149 A SP4DCR 124,200 523 108 A	UA1TFG 12,213 75 59 C UA3VRP 8,932 147 28 C	RZ9UA 1,176,751 1380 191 C	JE2NWN 25,220 117 52 A JE4VRF 21,385 111 47 A	Zimbabwe Z21HS 12,499 91 29 0
SP91CE 111.265 369 119 A	R6L (UB3IW, UB5IBG, UA6s LFQ, LO,	Kazakhstan UN7FW 180,842 561 77 A	JH1JGZ 8,153 69 31 A	22,1110 12,436 41 46 10
SP2ZFJ/P 108,438 442 93 A SP2UKB 53,200 286 56 A	LV,UV6LPL UA6-150-1403.ops) 1,667,160 2362 220 D	ULIAWA 13,888 114 28 A	JA4ATX 7,980 54 35 A JA3JOT 8,075 63 25 A	Zone 54
SP6NIC 29,072 226 46 A	UZBAXS (RW6YZ,UA6s AJU,AQA,	Zone 32	JG1RDV 5,150 50 25 A JK2VOC 4,032 98 18 A	indonesia
SP7FQI 42,705 229 73 B	UZ3DZD (RV3DA_UA3-142-1896,ops)	European Russia	JI7OED 2,416 51 16 A	YB6INU 13,312 106 26 A YB1ARW 79,750 306 55 B
SP6NVK/3 34.938 243 54 B SP1EOI 26,197 227 37 B	152,334 509 103 D	UZ9SXF (UAØSULUWØSN.ops)	JA1XPU 793 19 13 A JA9XA1 430 15 10 A	NEQLQ/YB5 71,160 252 60 B
SP4CUF 24.745 201 49 B	Ukraine	67,706 235 61 D	JA1AAT 204 10 6 A	YB6AVE 286,779 563 109 C YB6TI 85,586 446 39 C
SP800N 22,000 221 40 6 SP6MLX/P 11.648 154 28 B	R85FF 1,313,435 2263 205 A US51 (R65IM,op)	Zone 33	JA7BEW 140,712 455 96 B	
SP18KM 68 / 6.8 SP6YAQ (SP3ASN,op)	i,155,684 1899 193 A UT4UZ 1,022,286 1748 201 A	Asiatic Russia	JH7QXJ 87,230 355 56 B JA2BNN 78,116 358 59 B	Zone 55
754,120 1308 170 C	UB4FXX (UB5FJA.op)	RAGUX 11,544 188 32 C	7K2DOD 53,400 256 50 B	Australia
SP7GIO 547,208 1064 146 C SP9BBH 190,476 544 117 C	473,480 1140 152 A UBGJZ 438,520 1071 162 A		JH1UUT 31,552 142 58 B JR1MBG 2,442 27 22 B	VK8BE 570 19 6 B VK8AV 185,170 412 97 C
SPZAYČ 143,055 520 99 C	UB5FAN 329,853 975 129 A	Zone 34	JR7LVK 2,124 40 18 B	VK4TT 14,256 124 24 C
SP2FOV 105,200, 440 100 C SP5YQ 97,632 240 113, C	HB4EK 212,520 585 110 A UY5TE 177,067 641 103 A	European Russia	JACAD 1,895 27 15 B JACAW 1,260 27 12 B	Zone 57
SP5CJQ 91,440 434 80 C SP4EAK 65,504 424 48 C	UB5PCU (15,623 501 87 A BB4INR 76 104 338 84 A	RUØL (UAQLS,UAØ-103-454, UAQ-107-696,UWØLZ,ops)	JH1RMH 600 26 10 B JA2BEY 720 18 10 B	Lesotho
SP6CDP 32,382 215 63 G	UB4LAQ 63,448 191 88 A	521,934 1307 102 D	JH3AKD 704 24 11 B	7P8SR 18,640 172 20 C
SP1AEN 29,150 184 55 C SP3DIK 19,694 131 43 C	RB4EO 53,568 306 62 A RB5ICY 24,822 264 42 A	Zone 36	JA2GHP 696 22 12 B JA7JH 606 21 6 B	South Africa
SP3NYG 13,170 163 30 C	UB5WCF 12,122 153 38 A	Madeira Islands	JE1LGY 486 18 9 B	2SeHO 4,180 47 20 B
SP3AO1 9,612 91 96 C SP8LZC 9,520 106 40 C	UB5PAC 8,375 78 35 A UT5HP 1,292 20 17 A	GQ3A (CT3s BD,EE,FH,HA,ops)	JH2WHS 288 14 9 B 7KIOPT 192 B 6 B	7 50
SP5UAF 2,163 43 21 C SP5CGN 1,260 36 14 C	UB5ZME 414 31 9 A BB5DX 591,345 1234 153 B	382,418 755 107 D	7LIMES 162 9 6 B JJ4GTY 110 10 6 B	Zone 59
SP9MDY 371 25 7 C	UBSZBF 50,765 253 71 6	Azores	JH3UYG 100 12 5 B	Australia VK2VM 103,380 365 80 A
SP3PLD (SP3s CB,FLR,IBM,SBB, ops) 302,068 774,148 D	UB3IAA 31,978 172 59 8 BB5TBS 9,400 66 40 8	CU3/NØFHL 167,676 558 89 B	JG1GCO 80 6 5 8 JH3KAH 48 4 4 B	VK5GN 74,965 285 55 B
SP9ZKN/P (SP9MQB,SP9-0620-BB,	US8I (AB1IZ.op)	Canary Islands	JE2IFM/1 27 3 3 B	VK2ARJ 44,400 388 25 8 VK2DID 10,740 87 30 8
ops) 24,376 237 44 () SP6YFU (SP56 NVK,OPE.ops)	966,890 1589 196 C UISUGR 949,976 1669 186 C	EA8BWW 137,844 462 63 B EA8BGY 80,388 299 58 B	JASWEQ 4 2 2 B	VK2APK 442,720 910 102 C
9,152 108 32 D	UB7VA 508,699 1084 161 C UB4HO 482,675 1106 125 C	ECBAXM 68,640 416 33 C	JE3WNO 1 1 1 B JA7DLE 163,422 816 83 C	VK2AYD 238,293 603 63 C
Greece	HB5ZM 473 760 1053 160 C	Zone 37	JH7XGN 125,712 375 72 C	Zone 60
SV2BFN 90,048 625 67 8	RB5LJ 933,405 760 185 C UB3IQ 204,764 701 103 C	Portugal	JA9CWJ 107,568 340 72 C JI3BFC 92,994 359 66 C	New Zealand
Bosnia Herzegovina Tatibno (Ta4LP,op)	UBSICB 156,180 549 95 C UBSEF 143,967 518111 C	CT4NH 1,348,032 1694 168 B	JA1BNW 91.904 304 64 C JF3IUC 90,320 313 80 C	ZL3GQ 708,698 1205 122 G ZL2AGY 136,916 548 52 G
122,175 337 75 0	UT5UIA 143,289 583 87 C	CO2K (CT1ESV.op) 548,548 2155 52 B	JH1HRJ 78,708 263 84 C	ALEMAN (100,010 DAG ME C
Romania	UB4LCB 142,416 808 86 C UB5MTM 131,040 419194 C	CQ6AHU 300,033 1209 51 B	JK1AJX/1 76,000 299 76 C JA5APU 68,156 374 44 C	Zone 61
YO3FF/P 54,720 261 76 A	UB5ZKG 118,508 988108 C UB5IQW 102,120 519 74 C	CT16WW 99,351 341 63 B	JK1GXU 53,798 277 62 C JA1WYO 59,570 205 74 C	Hawalian Islands
YO5BQ 44,072 315 56 A YO4AAC 10,260 166 30 A	UB3IEW 45,420 267 60 C	Spain EA3EJI 204.300 461 100 B	JASARM 59,563 251 67 C	KH6FKG 973,636 842 88 B NH6XM 63,315 291 45 B
YO7LFV 128,256 590 96 B YO3RU 121,360 506 89 B	UB5JNW 43,890 336 42 C UB5QLN 42,294 230 57 C	EA3GHQ 56,782 303 58 B	JI1MTF 38,936 176 62 C JASCKD 33,000 164 55 C	KH6GMP 35,516 224 34 B
YO9FNH 38,502 243 62 B	U84III 40,736 289 67 C	EA3ACB 47.481 265 57 B EA3GJH 47.096 269 58 B	JR1IOS 28,755 99 81 C	AH6JF 85,800 322 55 C AH6LV (+AH6IO,WH6BC,KJ9U)
YO4DIJ 13,299 199 31 B YO2LIM 10,744 164 34 B	UB5ANK 39,216 309 48 C UB4IBF 39,195 283 65 C	EA3GFQ 41,644 250 58 B	JAGBOB 12,243 85 33 G	405,748 972 85 D
YO5BWI 9,418 118 34 6 YO4KCS 8,432 131 31 B	UB5ZKE 36,995 291 49 C UB3MP 33,804 266 54 C	EA5GRG 26,080 202 40 8 EA1FEN 24,882 222 39 8	JR7KCC 12,075 97 35 C JR7CJO 11,480 88 35 C	Zone 63
YOBROO 3,180 65 20 B	UB5MGX 22,879 206 43 C	EA9BA/7 22,704 200 33 B EA1AHA 19,096 149 44 B	JFØSGW 8,128 80 42 C	French Polynesia
YOSCLN 1,634 48 19 B YOSBPY 24,766 185 61 C	UB5LBX 10,488 142 23 G UB5INT 10,472 159 22 G	EC3CIL 15,606 287 18 B	JASHBO 7,890 57 30 C JK1BSM 7,680 60 30 C	FO5IW 444,904 1194 76 B
YOSOAS 13,050 195 50 C YOSAZO/P 11,168 159 32 C	UT5UJY 4,470 140 15 C UB5PDM 3,287 65 19 C	EA1EXU 13,104 110 42 B EA3GIW 3,636 137 9 B	JA4BAA 6,708 66 26 C JA8AJE 5,400 53 24 C	Zone 65
YO3FWC/P 8,800 164 25 C	RB56LM 3,081 105 13 C	EA5GJM 3,484 83 13 B EC3CMT 450 25 6 B	JA68WH 4.225 41 25 C	Tuvalu
YORLIN 4,464 122 24 C YORFJW 3,784 92 22 C	UB5VK 1,952 36 16 C UT5UQV 406 S2 7 C	EA5WU 163,246 801 62 C	JH0EPI 3,344 63 16 C JITACB 3,339 37 21 C	T24JJ (JF2MBF,op)
YC/2CJX 380 40 5 C YO4KCC (YO4s FTC,FZQ,ops)	UY7E (UB3EC,RB6EL,UB5a ECE, EDU,EDX,EDY,ops)	EA7FZ 58,424 246 67 C EA3BOW 44,416 207 64 C	JF1SQC 2.717 35 19 C JA2FNY/1 2,430 33 18 C	1,140 57 4 G
14,804 150 45 D	1,683,045 2833 189 D	EA7BY 22,410 169 46 C EA3AAI 7,364 180 14 C	JL1URS 2,256 45 18 C	Marshall islands
Yugoslavia	UR&J (UB2JQ, HB3JA, UB3JQ, UB4JFJ, UB5JMR, UB7-067-2, eps)	EA2CKP 5,348 80 27 C	JL1EUP 2,106 38 13 C JE3CYH 2,025 39 15 C	V79SG S7,091 263 29 B
Y17TY 550,788 1146 158 A	1,416,780,2332,204, D US7I (UB3s IM.IO.RB4II.ops)	EA3GF I11 9 3 C ED5URN (EA5s CKP.GPP.EC5s	JASTET 1,876 33 14 C JF1LKM 585 15 13 C	Zone 75
YT7A (YZ7UN,op) 758,090 1508 161 B	1.138,080 2401 160 D	CVA,CYJ,ops)	JE1REU 525 (5 7 C	Northwest Territories
YT1MI 4,566 100 17 B YT1BB 563,380 1326 138 C	UT7W (UB5s WAN,WCX, UB5 068 997,ops)	134,290 659 65 D EA2BSJ (+EA2AM)	JR4ISK 496 15 11 C JH1NXU 400 12 10 C	VESUWGAVER 21,230 209 22 A
YU7\$F 83,265 353 91 C	685,740 1374 165 D	34,624 164 32 D	JF3xMI 85 9 5 C	Checklogs
YU7XM 60,075 270 75 (. YTØT (YU1RA,op)	Belarus	Ceuta and Melilla EA9KQ 25,840 168 35 B	JJ3Y6B (JA3PJL,JE3TXA,JH3FQF, JA7OMD,opsi	4LTUN, AA4WX, AB6ED, CR3R, DF1IAZ, DF3OL, OF5WN, DRDCS (DJ1XT.op), DL1AR1, DL1JEI,
51,786 280 63 C YU1HA 17,416 95 56 C	UC1CWB (+ops) 221,000 775 104 D	EXBRQ 45,040 106 35 p	339,492 708 114 D JHØZHQ (JH1s BBT,SBE,JG1RVN,	(DJ1XT.op), DL1ART, DL1JEI,
YU1PJ 9,843 69 51 C	Azerbaijan	Zone 38	ops) 305,660 636 124 D	DL282A, DL3A2M, DL4LXM, DL5ANS, DL5AWJ, DL5LRA, DL6CHG,
YU1GR 9,010 54 53 C YU1PM 7,803 51 51 C	UOSF 90,066 283 102 C	Egypt	JATYKX (JG1EGG,JK1WHK,JQ1s PCT,VNM,JH7AHD,7K1LWB,ops)	DL6RDE, DL7VEE, DL8ZWG, FA1EMZ, EA2ABM, FA4AAK.
YU1AGX 54,605 277 67 D	UD6DKW 37,440 262 48 C	SU2MT (+ops) 933,312 1980 96 D	290,472 748 98 D JA9YAV (JF2MXF,JR9GXQ,	DLBRDE, DLZVEE, DLSZWG, FA1EMZ, EAZABM, EAAAAK, EATGBD, EABSKG, ERZZ, FAFGZ, GAUOL, GOOHW, HATTK, HLSBUY,
Macedonia (former Yugoslav	Moidova	Zone 39	JA9-3017.ops\ 50,898 250 51 D	
Republic)	UO5GA 123,120 531 80 C UO5GN 102,890 395 90 C	Israel	7ana 46	Handa Jatjep, Jetako, Kisi. Kitua, Laicoa, Lazgoa, Laziz, Lazwy, Lasia, Lati, Labee, Labdy, Lasffa, Laock, Lushat,
Z32BU 62,500 554 50 B	UOSCIED 3,374 119 14 C	4X/SS9PR 1,862,764 2458 163 A	Zone 46	LA2MV, LA4JHA, LA7IJ, LABCE,
Zone 29	Latvía:	Cyprus	Nigeria SNOMVE 612,144 1087 117 B	LYZBIP, NOTCZ, NOUB, CA4ZV,
Lithuania	YL2KO 288,750 856 125 A YL2SW 48,895 337 55 B	C49C (5B4s ADA,LP,SA,WN,ops)	Niger	OESIMD, OHSEBR, OKIDWJ, ONSEW,
LYZIJ 961,665 1729 183 A LY1DS 608,494 1577 183 A	YL2GUQ 8,680 110 35 B	2,077,507 2943 149 D 585E (+ops) 1,000,130 2020 103 D	5U7M 676,813 1355 103 A	OZYGB, PASADI, PASTV, PASUV.
LY2OU 451,836 1127 132 A	YL2GVW 5,518 72 31 C	Saudi Arabia	Ivory Coast	OZZOB, PASADI, PAØTV, PAOUV, PYZEYE, PYZGTB, SM5OL, SM6FPZ, SM7TV, SMØCSX, SP-0189-GD,
LY1DI 108,329 474 87 A LY2BTA 54,439 781 49 A	Zone 30	HZ1HZ 394,058 787 104 C	TU5DX 886,816 1674 107 B	SPZEIW, SP4SHW, SP6FEH, SP6RGB, SP7VCA, SP8FHM,
LY3BBC 17,152 184 32 A	European Russia	7000 44	Zone 47	SP9CLO, SV1ATW, UA9FYT.
LY1BA 453,033 1015 153 C LY2PAQ 136,618 566 83 C	UA4WGU 33,030 386 30 A	Zone 41	Zone 47 Central African Republic	UBSXAN, VESEDS, YOS-13838, YOSCHU, YOSKOS.
LY1CN 64,454 370 74 C LY3BY 11,480 144 35 C	UZ4WWA (RW4WA,UA4s WA,	india YU2UR 30,360 138 55 A	TL8NG 84,101 463 37 B	Feedback
European Russia	WAN,ops) 753,641 1453 161 D	VU2KAN 18,901 74 41 B		See February 1993 QST, pp 105-108.
UA3RAR 839,581 1277 199 A	Asiatic Russia	na	Zone 48	in the W/VE listings, KWaN (WZBN) was phone-only, and not Mixed mode.
UA3DPX 401,571 1053 139 A	College of the colleg	Inna aa		
UA4LCO 218 885 A97 101 A	RW9QA 55,118 222 62 A RW9AB 259,200 579 96 B	Zone 44	Kenya	This makes him the third place, W/VE,
UA4LCÚ 218,665 697 101 A UA1TAN 160,230 612 98 A	RW9AB 259,200 579 96 B UW9CL 101,952 335 72 B	Zone 44 Taiwan 892A 29,220 149 46 C	Kenya 9Z4FO 238,342 566 89 A 9Z4BI 820,704 1656 93 B	This makes him the third place, W/VE, phone only; and K5ZD the tenth-place winner in the mixed-mode category.
	RW9AB 259,200 579 96 B	Taiwan	5Z4FO 238,342 566 89 A	This makes him the third place, W/VE, phone only; and K5ZD the tenth-place

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