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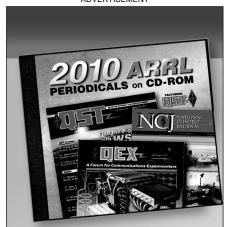
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Author: Warren Stankiewicz, NF1J

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### Results, Ninth IARU HF World Championship

A great contest, with plenty of room for everyone!—Jeff, N2MZH

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

there light at the end of the tunnel? It certainly looks that way! After a run of lower scores in the IARU HF Championships, this year's contest saw scores take a jump for the better. Can days of better propagation be far behind?

We remarked in last year's results that to have a good score, you needed to work large numbers of Europeans. Judging by the comments we received, this changed. Many operators told us that working W/VEs this time around made the difference. So much for being at the bottom of the sunspot cycle!

Apparently, the big opening this year was from Europe to the West Coast. Bob, W6CN, reports, "It was the first time in my 50 years of being a ham that I ever saw such a long opening to Europe from the West Coast. It lasted all day and into the night, and I could copy SK2HQ on 20 meters until midnight!" This is that time of the solar cycle where 20 becomes both a daytime and a nighttime band. Maybe this is Mother Nature's way of compensating us for taking away 10 and 15 meters for a couple of years.

The final scores bear out the difference. For example, take a look at the perennial dogfight for the top IARU HQ station score between HG94HQ and DAØHQ. The Germans did another great job of hunting down the multipliers. They finished with 299, up 27 from last year. In comparison, the Hungarians only had 9 more than last year. They did add another 734 QSOs over their previous effort, however, leaving the German operators in second place again.

A scan through the Top 10 boxes shows familiar call signs that experienced contesters will recognize. There are a few operators

Yuri, UA0ST, "worked a lot of good DX" from Zone 32.

who put forth outstanding efforts to capture the top spots. Hernani, CT3BX, operated CR3R on Madeira on phone and doubled the score needed to win this class last year. Being able to work Europeans and North Americans pays off! Joe, W5ASP, one of the operators at N5EA, noted "a surprising lack of activity from the Central and South America stations." Did they forget to get on the air?

Last year, no one in the US or Canada finished with more than 840k; this year, five stations had more than a million points. A couple of W/VE stations even made it into the worldwide Top 10 boxes, the first time that's happened in a while.

In the multioperator category, W5WMU, stung by WXØX last year, pulled out all the stops and easily outdistanced them this year. Rick, KIIG, and John, W2GD, proved that there's still a lot of activity on CW, finishing 1-2 in the US and 2-3 overall. Fred, K3ZO, always seems to hover around the top, no matter what contest he enters, and he won the Mixed Mode category this year, finishing in ninth place worldwide.

Don't get us wrong-by no means are the bands back to the conditions we were used to a couple of years ago. Those positive thinkers among us, however, will argue that we've turned the corner. If this year's contest was any indication, better times may not be far away.

One thing is certain: The only surefire way any of us is going to know how things are on the bands is to turn on our rigs and make contacts. Don't wait for the results afterward to find out what you missed-get on and operate! The next IARU HF World Championship is July 8 and 9. We'll be looking for you then!

#### IARU Headquarters Stations

HG94HQ (HA1s FF.VQ.YA.YU.QD.HA2RX.HA4YD.HA5s AWH. CEH.FA.FM. GF. IW. KS.MK.ML. TI, JA. WE, HGSS BGG, CCC, HA6S DX.FQ. GK. GM, IAB, IDL, ND, NF, NL, OB, OI, ON, OY, PO, PX, PY, RX, VA, NB, VH, WI, WP, WQ, WX, ZS, OV. HA7s JES.RY, VB, HA8s IB, IE, LKE, TK, HA9s CU,SU,ops) 8,896,656 9332

DAOHO (DL1s AKW ASA AUZ AWI DTL EMY DL2EBX.DL3s APO.DXX.DZZ.OI.RMA.DL5s ANT.AOM. ATD.AWI.EBE.XV.DL6s CKF.CPG.MYL.DF7RX.

DJ7AA,DL7s UTA,VNF,DL8MVG,DL9AWI,ops)
7,704,632 8898 299
EM5HQ (UT1s IA,WA,WL,UT2s IA,ID,II,IM,IO,QT,UY3IM, UX3FW,UR5s WCW,ZMZ,US5s QDP,QRW,UY5s QQ, XE,ZZ,UT7WZ,UR9QQ,UX0FF,ops)
7,450,185 7679 285

OM9HQ (OM3s JW,KAG,KAP,KCM,KFF,KII,RJB, RKA,RMM,ops) 7,120,710 8369

YPOA (YO2s BBT,BV,DFA,YO3s APJ,AWT,CDN,FRI,FU,YO4s AB,ATW,HW,NF,SI,XF,YO6s ADM,AWR,DDF, OBH,UX,YO8s BAM,BIG,RSL,WW,YO9FE,ops) 6,369,920 8247 269

LZ7A (LZ1s NG.UK.UQ.YQ.ZX.LZ2s JE.PO.PP.UU.YF. ZF,LZ3s FN,GU,SM,UA,LZ4s AX,IM,WW,ops) 4,720,911 5815 277

OT4H (ON4s ALT, AMI, AXV, OE, XG, ON5AZ, ON6s HP, JG,LO,MR,NL,VK,ON7s DU,NB,SS,UN,ZM, ONL-4335,ops)

3 306 096 4319

SK2HQ/SK3HQ (SM2s EKM, CEW, SM3s CER, DMP,

EVR,SGP.ops) 2,618,055 4155

OH2C (OH2s BC1,BQW,BVF,NRV,ops) 1,774,325 2963 175

IU2A (+ops) 712.097 1675 139

3Z0HQ (SP3s AMZ,BLV,FLR,MEP,PLK,VKO,ops)

628.575 1777 145

W1AW (NG1J,K2WR,N2BCC,ops) 550.014 109

4U1ITU (KB2R,op)

504.832 1290 128

LX0RL (LX1s HT, JH, KQ, RA, TI, LX2BQ, DL1LE,

OH2PQ.ops) 487,920 8J3XHQ (JL2NGY, JA3MAU, JF3EIG, JG3RPL, JI3ERV,

JJ3WPF, JN3VOG, JP3LKR, JQ3OZY, JR4ISF, ops) 2105

486,291 9V1ARU (9V1s YC, YJ, JE1JKL, ops) 288,858

T70A (T77CD,IKOWIN,ops) 43 94,643

VA3RAC (VE3s JQJ,NPL,NXO,REJ,ops) 12,272

#### SOAPBOX

It was great to be home for this contest. I would have worked many more stations, except for the constant rainstorms and severe lightning strikes, and I had to disconnect everything several times. Considering all the conditions, it was a great time (VE6JAV) This was a gratifying contest, but because I loaned my paddle and hand key to friends, I was left with a toothbrush for a key (VYIJA). It was nice to find the bands and conditions to be the greatest in a long time and I hope they keep up this way (VE3CWE). This was an outstanding event (W6CN). I was pleased and gratified to see that we can still have a good time, even when the WWV numbers tell us that in no way should we be on the air, these were



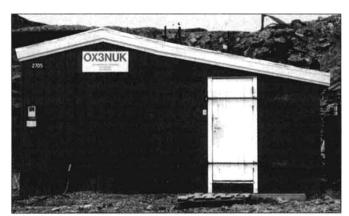
Andre, PY0FF, handed out almost 1700 QSOs on phone.

thing a little different this year and went to using two radios. It was a little confusing and taxing; I did notice that my overall rate had greatly improved (KIRU). The thunderstorms always seemed to show up at the most critical moments, but propagation produced terrific pileups on 80 meters (WS1A). This was my second IARU contest and I found it more exciting than my first. It was greatly enhanced by having all equipment working superbly, without any breakdowns, and it was great to find 20 meters wouldn't quit; these produced great runs (WM2V). This was my first contest using a beam antenna. I've worked many contests with dipoles or a vertical antenna; boy, what a difference. It's nice to be heard on the first call (N2LSK). I made my first DX QSOs on 80-meter CW with my new ladder-line dipole up about 50 feet. A real thrill was Sunday morning when I called CQ on 40-meter CW and a VK2VM came back to me. This is the first VK I ve worked from my home shack. In general, a great contest, with plenty of room for everyone, I even took time out to ragchew and I got a decent amount of sleep N2MZH). This was my first time operating in the IARU contest. I certainly learned a lot, now you can't keep me away from CW contests (N2PEB). It sure seemed that participation this year was way up, but maybe it was the antennas I was using. 20 and 80 meters had great openings, and if you didn't play, you missed some great fun (WB2K). My antenna system is an inverted **V** on 40 meters and on 80 meters I only have a horizontal V (cloud warmer) for antennas. When I first got on the air, my intention was to work a few DXCC countries for my log. The area where I live is surrounded by hills and at the time I didn't expect to do well, but as the hours drifted by and the contacts began to accumulate, my excitement began to grow. I decided to establish a score I could strive for in future years. Even with my modest antennas I made a great attempt and it was a great deal of fun putting in the added effort (KG8GW). Murphy didn't go abroad this year, he stayed at home in Northern Ireland and annoyed me instead. Nevertheless, it was an exciting contest. Propagation was poor on 15 and 10, and 1 missed many zone multipliers (GIØNWG). This was an interesting, exciting contest from this part of the world. I have a modest antenna system, but I hope next year to have an antenna for 40 meters to get the multipliers (DL8HCO). It was great fun to work so many new stations; we made sure we picked up those elusive new countries and prefixes, and hope to be able to do the same in the next contest (SPIMHV). We greatly appreciated the participation of the of the US stations and it helped gain many points for Poland and Europe. (SP3FAR). The band conditions were by far the best I've seen in this contest in years. I was able to work many Stateside stations, including the West Coast, with just five watts and a dipole (SP9KRT). This was my first DXpedition to ITU Zone 32; it was a complete enjoyment. The weather this time of year in Siberia was outstanding (UA3D/Ø). This was a fun contest and is still one of the best. It was a lot of fun working ITU and the many IARU HQ stations (CTIBWW). I want to thank you for the first-place award in the 1993 IARU contest. It was a complete surprise and greatly appreciated (EA3EJI). My wife and I shared the shack area for the contest. It was my wife's first attempt at contesting, so it made operating a great deal of fun (EA3BT). This was a fine contest, but Murphy's visit came too early, Friday at noon. We started with no power to the amp, then no TX/RX on 10 meters, then by 1030 UTC Saturday, Murphy finally decided to go on vacation and everything worked fine during the rest of the contest. I hope for the next contest Murphy won't come again (C48A). All of our contacts were on CW and were only operating with 100 watts, but we're glad we were dug out of the low-power mud, especially on 40 meters. Everything aside we'd do it all over again (9V1ARU). Conditions are getting worse and worse. while I keep having more and more fun (F6IIE). It's a pity 15 and 10 were so quiet. I can't wait until next year to give it a second, and hopefully better, crack (GØDEZ). It was nice to see propagation to the US for a change (GMØECO). The small openings made me chase multipliers and still enjoy the contest (ON4AUC). This is always a pleasant contest (ON5CZ). It was a fine contest and conditions were good (ON4BR). The high temperature in my shack prevented me from going for a higher score. I only heard two stations on 10, and couldn't work either one (PAØMIR). I hope to come back next year, with

amazing conditions (KIIG). I tried doing some-



Len, KB2R, popped by 4U1ITU in Geneva to give out HQ multipliers.



better antennas for the low bands, especially 160 (PA0IJM). There was so much activity, I didn't have to call CQ once to work someone (PA3DWJ). There was a lot of activity (PA3BNT). Propagation was pretty good (PI4COM). I hope next year my amplifier won't trash the computer, and my antenna rotator won't fail and leave everything pointed north (DL51AR). I nearly doubled my score from last year, although conditions were much better than last year. It was hard to copy any stations from the Far East (DL7VOG). Propagation to the West Coast was excellent on 20 (DLHAO). It was nice to hear so many HQ stations (DL4FDM). We're going to have to wait a few years for more sunspots to make this contest more fun (DFØFHW). One of our operators turned out to be Murphy, who visited us at the start of the contest (HBØ/Pl4TUE). My rig decided to stop working on 160 just before the start of the contest. Propagation was about equal to everywhere (OK1BMW). Conditions were good enough, considering the low solar activities, but I prefer harder work in heavy pileups (SP5TT). After 7½ hours, my amplifier quit (YO5BQ). The rain, wind and high QRN made things difficult. The wind bent my 18.5-meter mast in half (YR8A). I need better antennas on the high bands. I was surprised when PYØFF answered my CQ on 160! (LY1DR). Although propagation wasn't that good, it wasn't that

bad, either (EC3ACG). It was a fun contest, but with only a G5RV, I didn't have much of a chance, but it sure beats heck out of mowing the lawn (N6XJG).

#### Feedback

See February 1994 QST, page 109: HAØMM's line score was incorrectly printed as 199,404. It was actually 1,999,404.

Dave, WJ2O. traveled to Greenland to operate from the club station in Nuuk.

#### A "Revolutionary" Contesting Experience

By Peter Casier, D2TT/ON6TT

The IARU HF Championship is one of my favorite contests. This year, I found myself in Angola working as a telecommunication consultant for the Red Cross. Luckily, during the weekend of the contest, I was in Luanda, the capital of Angola. I had set up an HF station for the Red Cross at its headquarters: a triband Yagi fixed to Geneva (due north) and a multiband dipole on the top of a seven-story building

For the contest, I hooked up my faithful HF transceiver and prepared to cope with the regular power failures common to Luanda: two 124-Ah batteries and a small 600-W generator. The power didn't fail once during the contest, but the voltage dropped to 190 V from 220 V, causing the output of my transceiver to drop to only 20 W. The office where I set up the equipment is in an apartment block, overlooking a living area of small houses. Africa is normally a noisy place; there, everyone tried to beat everyone else by turning up the volume on their television sets as loud as possible. So I was quite used to hearing all kind of things. At about midnight, though, I heard the noise level going higher than that of my headset. It was like hundreds of people were shouting and screaming in the street below. I took a careful look over the balcony and saw a couple of gangs involved in a gunfight. People in the streets were running around trying to find a place to hide. It was the first time I had "local QRM" in a contest caused by a gunfight.

Propagation was good the first couple of hours in the contest, with nice runs into the US (despite my 20-W output), but once 20 meters closed, I could forget working anyone on 40 or 80. I heard stations, but I wasn't heard by anyone else. I fell asleep in front of the receiver with my voice failing after calling CQ six times per minute. Early in the morning, most of my contacts were by search-andpounce. I couldn't get a pileup running. Even the S&P was difficult; I kept getting, What is your call sign? 3D2TT? OD2TT? DL2TT?" But I didn't give up, and five minutes before the end of the contest, I had my pileup running again. I would have done anything for a kW or a rotatable Yagi...even for a voice keyer...or

220 V. Then again, that's the fun of contesting, isn't it?

Mixed Mode		Phone Only		CW Only		Multioperator	
Call Sign HAOMM VP5NC (AA4NC,op) DL5IAR JA3RAR DH6NIO EN11 (US1ITU,op) DL3KDV (UA3DPX,op) DL3KDV K3ZO	Score 1,875,258 1,490,886 1,362,200 1,242,428 1,181,582 1,081,917 1,023,840 849,090 803,125 760,608	Call Sign CR3R (CT3BX,op) UR5MAF ENØD (UT7DX,op) RZ9U (RZ9UA,op) PYØFF YT1AD OH6LNI G4JVG UXØMM 5NØMVE	Score 3,718,451 2,209,116 1,266,252 1,192,498 1,153,740 1,149,660 1,036,935 1,025,208 868,700 835,968	Call Sign C48A (5B4ADA,op) K11G W2GD S59AA OH2PM (OH1WZ,op) K4PQL UX2HO S53DCM N6TR DL11AO	Score 1,852,590 1,194,510 1,099,150 1,041,390 970,717 826,284 814,660 790,071 752,410 742,462	Call Sign HG73DX UU5A UT7E IR4T RU6L C49C T9A RW6AWC W5WMU OK5W	Score 3,237,894 2,552,256 2,300,400 1,792,635 1,777,888 1,662,880 1,580,128 1,576,274 1,534,250 1,443,224

	Phone Only		CW Only		Multioperator		
Score	Call Sign	Score	Call Sign	Score	Call Sign W5WMU	Score 1,534,250	
760,608	W4PZV (WA4SVO,op)	471,660	W2GD	1,099,150	WXØX K5NA	1,251,888 1,098,131	
447,412 435,612	WS1A K4VUD	397,320 386,004	N6TR K1RU	752,410 698,775	N5EA AA1AS	863,863 849,126	
434,910 429,739	N4UH CI6AO (VE6MD,op)	375,100 345,840	WZ3Q AG6D (N4TQO,op)	533,021	K9SD	805,375 680,295 642,692	
367,356	KD9ST	278,168	VE3KP	368,019	KF2KT (UT5UGR,op)	600,010 578,600	
	803,125 760,608 597,820 447,412 435,612 434,910 429,739 372,720	Score         Call Sign           803,125         WA4PGM           760,608         W4PZV (WA4SVO,op)           597,820         WA7FOE           447,412         WS1A           435,612         K4VUD           434,910         N4UH           429,739         Cl6AO (VE6MD,op)           372,720         WM2V           367,356         KDSST	Score         Call Sign         Score           803,125         WA4PGM         650,236           760,608         W4PZV (WA4SVO,op)         471,660           597,820         WA7FOE         452,214           447,412         WS1A         397,320           435,612         K4VUD         386,004           434,910         N4UH         375,100           429,739         CI6AO (VE6MD,op)         345,840           372,720         WM2V         305,828           367,356         KD9ST         278,168	Score         Call Sign         Score         Call Sign           803,125         WA4PGM         650,236         KI1G           760,608         W4PZV (WA4SVO,op)         471,660         W2GD           597,820         WA7FOE         452,214         K4PQL           447,412         WS1A         397,320         N6TR           435,612         K4VUD         386,004         K1RU           434,910         N4UH         375,100         W23Q           429,739         Cl6AO (VE6MD,op)         345,840         AG6D (N4TQO,op)           372,720         WM2V         305,828         W1ZM (KØEJ,op)           367,356         KDBST         278,168         VE3KP	Score         Call Sign         Score         Call Sign         Score           803,125         WA4PGM         650,236         KI1G         1,194,510           760,608         W4PZV (WA4SVO,op)         471,660         W2GD         1,099,150           597,820         WA7FOE         452,214         K4PQL         826,284           447,412         WS1A         397,320         N6TR         752,410           435,612         K4VUD         386,004         K1RU         698,775           434,910         N4UH         375,100         WZ3Q         607,420           429,739         CIGAO (VE6MD,op)         345,840         AG6D (N4TQQ,op)         533,021           372,720         WM2V         305,828         W1ZM (KØEJ,op)         518,520           367,356         KD9ST         278,188         VE3KP         368,019	Score         Call Sign         Score         Call Sign         Score         Call Sign           803,125         WA4PGM         650,236         K11G         1,194,510         W5WMU           760,608         W4PZV (WA4SVO,op)         471,660         W2GD         1,099,150         WXØX           597,820         WA7FOE         452,214         K4PQL         826,284         K5NA           447,412         WS1A         397,320         N6TR         752,410         N5EA           435,612         K4VUD         386,004         K1RU         698,775         AA1AS           434,910         N4UH         375,100         WZ3Q         607,420         KN2T           429,739         Cl6AO (VE6MD,op)         345,840         AG6D (N4TQO,op)         533,021         K9SD           372,720         WM2V         305,828         W1ZM (KØEJ,op)         518,520         AD5Q           367,356         KD9ST         278,168         VE3KP         368,019         KPZKT (UT5UGR,op)	

#### Scores

Scores are listed by ITU zone and then by country, ARRL section or Canadian province within the zone. Line scores indicate call sign, final score, QSOs, multipliers and entry class (A = single operator, mixed mode; B = single operator, phone only; C = single operator, CW only; D = multioperator, single transmitter).

multipliers	and em	y Cie		og.o op							-						-	
Zone 1				Santa Barba	ara			Zone 7				Kansas				WF1L	34,686 2	200 47 C
				W6TKF	86,292	325	68 A	W5				KØVGB	57,882	261	66 A	AA1AS (+KY1H,	,NU1P,WM1 849,126 15	1K) 562 137 D
Alaska KL7RA	244.937	001	77 A	WA6FGV	77,994	412	63 A					WIØR KØBJ	34,902 23,562	215 157	42 C	KB1W (+NET)	040,120 13	JOE 107 D
KL7FAP	7.540		26 B	W6AB (N6GC,	N∠9J,ops) 183,770	570	85 D	Arkansas			ee 0	NØFMR	15,207			, ,	25,980 2	212 30 D
				Santa Clara		0,0		KM5G	130,080	568	90 C	Minnesota				W2		
Zone 2				N6IP	341,544	806	104 A	Louisiana				KFØVB	31,624	168	59 B	Eastern New	/ York	
Alberta				N6NM	167,498			KZ5D NZ5O	760,608 90,744	334	139 A 76 B	NØMSB	4,530	43	30 B		223.686 6	633 102 A
CIBAO (VE6MI	D,op)			San Diego				AB5HD	8,256	80	32 C	KFØT NØAT (+NET)	53.820	291	60 C	K2POF	57,000 2	257 57 A
VE6JAV	345,840 112,392			KF6BL	137,592	632	63 A	W5WMU (+WL	J3V,N5AN,	W5XZ,	WØMJ)	NOAT (THET)	8,091	73	29 D	KC2QF	22,550 2	
VE6JY	66,368			W6CN	45,738	206	63 B		1,534,250	1963	170 D	Missouri				K5NA (+KU2Q,) JH7CUO) 1,	098 131 17	51, 769 163 D
CI6BF (VE6BF				KD6QK W6UQF	37,056 113,470	772		Mississipp				NØJHX	3.174	42	23 B	N2IWE (+K2DX	U,N2XDI)	
	196,308	612	84 C	AB6NE	33,600	700	48 C	WA5OYU N5QDE	180,964 107,768			WXØX (WX3N	NB9T.ops	)		WA2UKP (+WA	192,794 7	707 94 D
British Colu				San Francis						420	70 0	KMØL (+NET)	1,251,888 46,750	1933	176 D 50 D	WAZUKE (+WA	186,786 7	706 81 D
VE7QO VE7JMN	213,435 51,832	583	85 A	AG6D (N4TQC				North Texa		400	76 A	, ,		22,	30 0	NYC-Long Is		
VE7XO	32,383	107	47 B	ACOD (NATION	533,021	1115	113 C	WB5B NN5T	117,724 86,821		79 A	North Dake			74.0	KF2KT (UT5UG		
Yukon	,			WW6D	31,020	182	47 C	NA5F	15,953	107	43 C	WBØO	107.423	401	/10		600,010 12	
CK1JA (VY1JA	l on l			W6BIP WABLLY/6 (+N		182	32 C	WA5MUF	5,376	100	21 C	Nebraska				WM2V	305,828	
OKIBA (VIIIA	132,066	215	66 A	TTABLE ITO (TI	1,836	30	17 D	Oklahoma				NWØF	35,530	295	38 C	KA2HMJ N2MBM	159,040 6 126	10 3 C
				San Joaqui	n Vallev			KB5BOB	40,920	432	31 B	Zone 8				N2LSK (+N2IOI	N)	
Zone 3				KC6CEX	216,080	643	74 A	W5UDA WV5S	263,055 125,330		95 C 83 C	W1					12,376	44 26 D
Manitoba				KB6HRB	12,000	99		NJ1V (+AB5),	KB5RBX)							W2GLO (KB2O UAC,XKR,XUT	YM,KS2G,N FW2FR.Lor	1/25 LSU, ns)
CI4VV	341,020			WC6U	109,719	399	73 C		316,158	1108	87 D	Connectic				OAO,AMI,AO		64 17 D
VE4MF	15,373	55	53 C	Sacramente				South Texa	rs			WE6G WV1C	192,809 114,744			Nothern Nev	w Jersev	
Zone 4				N6WR	7,852 73,975	104 361		N5NMX	435,612			KD1BM	28,215			W1GD	345,840	738 132 A
Quebec				N6NF K6FO	44,464		56 C	WA1PRY	28,832 150,307		34 A 73 B	N1NQD	10,115	89	35 B	N2KJM	7,888	92 34 A
CI2AWR	63,720	402	45 A	AA6CX	25,652			NA4M WA5IYX	29,362		53 B	KI1G KIRU	1,194,510 698,775			N2MZH N2VYU		321 72 B 85 31 B
VE2FFE	960		12 C	W7				KA4FIL	13,702	115	34 B	K2SX/1	342,693				,099,150 10	
Ontario								W5NR	5,921	51	31 C	N4XR	8,316	75	36 C	WA2VYA	50,228 2	236 58 C
VE3RM	429,739	1019	113 A	Arizona W7YS	69,120	204	64 B	N5EA (+K5GA	863,863	1785	143 D	WA1MBK W4YDD	4,180 972	71 69	20 C 9 C	W2LRD	2,413	47 19 C
VE3CWE	86,424		78 A	NN7A	17,640			AD5Q (+KB5s	UHS, YVT	T)					30	Southern Ne		
VA3SYL VE3KP	48,480 368,019			Eastern Wa				KEDO ( NET)	642,692 68,526	1519	124 D	Eastern Ma			CD 4	WASRHW		130 55 B 71 30 C
VE3EJ	46,428			N7VEW	91,250		50 A	K5RC (+NET)		201	54 D	K8JLF W1DOH	67,270 75,287	289	79 B	N2CQ KN2T (+KD2s C		
				Idaho	0.1200			West Texas		. 40	12 A	WA1TTE	594	26	11 B	RHM,KA3YIA)	)	
Zone 5				KA7T	53,845	265	55 C	WBØWJJ KE5IR	1,992 66,700	406	46 C	K1JKS	85,072 57,834	404	52 C 54 C		805,375	762 125 D
Greenland					30,040			K5ED	44,296	239		N6EK/1 K1VUT	28,080	259	45 C	Western Ner		
OX3/WJ2O	406,637	1311	77 A	<b>Montana</b> K7ABV	111,244	540	42 A	WQ5Y (+N5S	EH,NZ5V)		00.0	WAIIML	26,052		52 C	AA2BA	10,914	105 34 B 74 29 B
Zone 6					111,244	540	72 17		81,320	245	92 D	W1FM (+N1S	OH) 40,185	222	45 D	N2LQQ KW2J	6,902 101,460	
				Oregon	044.464	700	124 4	W7					40,100	333	45 D	N2PEB	18,564	130 42 C
W6				W7YAQ N6TR	314,464 752,410			Wyoming				Maine	0.400			W2IMO	15,688	100 37 C
East Bay				KA7FEF	3,450		23 C	N7MZW	41,118	363	42 B	WW1P KA1GTR	3,423 41,359		21 A 59 B	W3		
KI6OY	2,768	61	16 B	Utah				W9				New Hamp				Eastern Per	novlvani	la .
Los Angele				W7HS	67,394	259	62 C	Illinois				KD1ON	12,837	123	33 A	KSWW		994 109 A
N6MI	296,240			K6XO (+K17W	X)	704	07.0	K9SD (KWØA	KAØGGI	ww9s		WS1A	397,320	938	110 B	W3BGN	273,876	492 87 A
KU6T N6IBP	32,256 31,700				227,756		9/10	L,Q,KC9A op	s)			N1OAZ	49,848	254	42 B	KB3TS	71,672	
	21,402	180	41 A	Western W					680,29	5 1121	165 D	Rhode Isla	ind `			N3MKZ KA3QLF	219,765	691 91 B 213 67 B
AG8L/6	21,402	82		WA7FQE	452,214	1162	105 B	wø				K1PLX	190,012			KL7HIR/3		392 109 C
KJ6HO	9,504			M71 7D	147 040							K1HMO	108,000	323	96 B		444 540	100 00 0
KM6YX	9,504 130,680	549		W7LZP AA7RW	147,040 22,950	134	45 B	Colorado						020		WF3T		489 60 C
KJ6HO KM6YX N6TCZ W6NNV	9,504 130,680 144 6,804	549 18 86	8 B 18 C	AA7RW KI7OT	22,950 35,098	134 237	46 C	Colorado	T)			Vermont				WB2K	82,068 1	1407 148 C
KJ6HO KM6YX N6TCZ W6NNV N8SR	9,504 130,680 144 6,804 976	549 18 86 116	8 B 18 C 26 C	AA7RW KI7OT N6HR	22,950 35,098 31,740	134 237 160	46 C 46 C	Colorado KDØNB (+NE	T) 21,42	0 142	45 D	K1CLN	37,260	176	54 A	WB2K Maryland-D	82,068 1 C	1407 148 C
KJ6HO KM6YX N6TCZ W6NNV N8SR N6XJG	9,504 130,680 144 6,804 976 920	549 18 86 116	8 B 18 C 26 C 8 C	AA7RW KI7OT N6HR W7DK (AJ7R.	22,950 35,098 31,740 K7YLM,KE	134 237 160 37NA	46 C 46 C 3,	KDØNB (+NE	T) 21,42	0 142	45 D	K1CLN WW1R	49.500	176 250	54 A 55 B	WB2K Maryland-D K3ZO	82,068 1 C 803,125 1	
KJ6HO KM6YX N6TCZ W6NNV N8SR N6XJG W6YRA	9,504 130,680 144 6,804 976	549 18 86 116	8 B 18 C 26 C 8 C	AA7RW KI7OT N6HR	22,950 35,098 31,740 K7YLM,KE EDP,VG0 FQ,ops)	134 237 160 37NA0 0,WA	46 C 46 C 3, 7UQV,	KDØNB (+NE <b>lowa</b> KFØH	21,42 447,41	2 530	116 A	K1CLN WW1R WI1S	49,500 79,915	176 250 379	54 A 55 B 55 C	WB2K Maryland-D	82,068 1 BC 803,125 1 JZ,op)	1407 148 C 1617 125 A
KJ6HO KM6YX N6TCZ W6NNV N8SR N6XJG W6YRA <b>Orange</b>	9,504 130,680 144 6,804 976 920 657	549 18 86 116 115 27	8 B 18 C 26 C 8 C 9 C	AA7RW KI7OT N6HR W7DK (AJ7R, KC7AVT,N78	22,950 35,098 31,740 K7YLM,KE EDP,VG0	134 237 160 37NA0 0,WA	46 C 46 C 3, 7UQV,	KDØNB (+NE <b>IOWB</b> KFØH KCØGM	21,42 447,41 43,16	2 530 0 222	116 A 52 B	K1CLN WW1R WI1S <b>Western &amp;</b>	49,500 79,915 <b>lassachu</b>	176 250 379	54 A 55 B 55 C	WB2K Maryland-D K3ZO N2WCQ (UT4L NF3X	82,068 1 9C 803,125 1 UZ,op) 103,020 10,304	1407 148 C 1617 125 A 455 68 A 62 56 A
KJ6HO KM6YX N6TCZ W6NNV N8SR N6XJG W6YRA	9,504 130,680 144 6,804 976 920 657	549 18 86 116 115 27	8 B 18 C 26 C 8 C 9 C	AA7RW KI7OT N6HR W7DK (AJ7R, KC7AVT,N78	22,950 35,098 31,740 K7YLM,KE EDP,VG0 FQ,ops)	134 237 160 37NA0 0,WA	46 C 46 C 3, 7UQV,	KDØNB (+NE  IOWA  KFØH  KCØGM  WØPPF	21,42 447,41; 43,16 10,70	2 530 0 222 4 124	116 A 52 B 24 B	K1CLN WW1R WI1S	49,500 79,915	176 250 379 1 <b>setts</b>	54 A 55 B 55 C 55 C 82 B 52 B	WB2K Maryland-D K3ZO N2WCQ (UT4L NF3X WB2TNL	82,068 1 PC 803,125 1 JZ,op) 103,020 10,304 25,392	1407 148 C 1617 125 A 455 68 A 62 56 A 144 46 B
KJ6HO KM6YX N6TCZ W6NNV N8SR N6XJG W6YRA <b>Orange</b> AB6ED	9,504 130,680 144 6,804 976 920 657 17,057 6,858	549 18 86 116 115 27 144 82	8 B 18 C 26 C 8 C 9 C	AA7RW KI7OT N6HR W7DK (AJ7R, KC7AVT,N78	22,950 35,098 31,740 K7YLM,KE EDP,VG0 FQ,ops)	134 237 160 37NA0 0,WA	46 C 46 C 3, 7UQV,	KDØNB (+NE  IOWA  KFØH  KCØGM  WØPPF  KØOAM  NCØP (+WAG	21,42 447,41; 43,16; 10,70; 83,64 ØFLS,WDØ	2 530 0 222 4 124 0 270	116 A 52 B 24 B	K1CLN WW1R WI1S <b>Western &amp;</b> AA1EY KV1W NGRFM	49,500 79,915 <b>lassachu</b> 72,734 34,580 26,562	176 250 379 1 <b>setts</b> 291 201 2126	54 A 55 B 55 C 82 B 52 B 57 B	WB2K Maryland-D K3ZO N2WCQ (UT4L NF3X WB2TNL AA2QX	82,068 1 PC 803,125 1 UZ,op) 103,020 10,304 25,392 51,612 21,291	1407 148 C 1617 125 A 455 68 A 62 56 A 144 46 B 266 51 C 139 47 C
KJ6HO KM6YX N6TCZ W6NNV N8SR N6XJG W6YRA Orange AB6ED KD7EY	9,504 130,680 144 6,804 976 920 657 17,057 6,858	549 18 86 116 115 27 144 82	8 B 18 C 26 C 8 C 9 C	AA7RW KI7OT N6HR W7DK (AJ7R, KC7AVT,N78	22,950 35,098 31,740 K7YLM,KE EDP,VG0 FQ,ops)	134 237 160 37NA0 0,WA	46 C 46 C 3, 7UQV,	KDØNB (+NE  lowa  KFØH  KCØGM  WØPPF  KØOAM	21,42 447,41; 43,16; 10,70; 83,64 ØFLS,WDØ	2 530 0 222 4 124 0 270 3GVY,	116 A 2 52 B 3 24 B 3 82 C	K1CLN WW1R WI1S <b>Western &amp;</b> AA1EY KV1W	49,500 79,915 <b>lassachu</b> 72,734 34,580	176 250 379 1 <b>setts</b> 291 201 2126	54 A 55 B 55 C 55 C	WB2K Maryland-D K3ZO N2WCQ (UT4L NF3X WB2TNL	82,068 1 PC 803,125 1 UZ,op) 103,020 10,304 25,392 51,612 21,291	1407 148 C 1617 125 A 455 68 A 62 56 A 144 46 B 266 51 C

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Western Pe	nnsvivania	AA9AQ 217,3	16 559	121 B	OH1MMM (OH1)	/R,OH6LI,	AC6T,ops)	ONSCR	71.131 277 83 B	DLØDRI (DL1M	GB,DH6MBV,ops)
W3YEY	42,987 185 69 B	KBØC 56,9	59 195	79 B		393,900 16	643 140 D	ON5CZ ON4KFM	15,698 118 47 B 55,948 238 71 C		106,470 364 105 D
WW3S WBØIWG	37,760 204 59 B 24 6 2 B	W9HLY 11,2 KO9Y 152,7	20 129 50 465	20 B 27 C	OH3NE (OH1KA ops)		949 121 D	ON6TJ	55,948 238 71 C 32,054 184 57 C	Dranx (+Dnac	106,288 407 112 D
K3UA	624 18 13 C	Wisconsin			Denmark			ON4NL ON4BR	30,748 189 52 C 15,715 134 35 C	DFØFHW/P (DF DL8WM,DD9V	H1PAZ,DC5WK,
W4		KA9FOX 45,1	82 401		OZ1APA 2	269,040			PV,ON6s MH,VL)		97.119 363 99 D
Alabama		NZ9Z 150,6 NØBSH 206,9			OZ5MJ OZ9SIG		404 100 A 150 52 A	OTAV (ONTIN	819,020 1619 124 D ON2AHJ,ON4s ALL,	DKØMN (DK3Y DJØMDR,ops)	J,DL5MFH,
AA4UF	44,523 437 51 B	W9HE 47,7		59 C	OZ5EV	171,457	405 121 B		YM,ON6KM,ops)	DODMIDIT, OPS)	48,508 242 67 D
KK4SM	118,300 406 91 C	Zone 9			OZ/WB2PSD OZ8T		292 78 B 136 55 B		608,256 1228 132 D	Hungary	
Georgia		Maritime-Newfor	ndtane		OZ8SW	26,708	202 17 C	Netherlands PAØMIR	70.348 283 86 A	HAØMM 1 HG1PS (HA1R.	,875,258 2147 242 A
KI4XO W4GLS	367,356 988 138 A 34,556 193 53 A		84 744		OZ5UR OZ5DX		20 17 C 16 7 C	PAØMIH	70,348 283 86 A 392,175 1022 105 B	HG1P5 (HATE	86,856 554 47 A
AC4PQ	12,992 120 32 A	VE9HF 65,4	72 584	31 B	Sweden			PAØKHS PA3GAB	60,183 237 81 B 44,957 219 67 B	HA6IAM HA1AG	74,559 363 87 A 6,574 148 19 A
KQ4HC K4ZTL	113,652 482 82 B 10,290 80 35 B	VE9ST 328,9 VO9SF 298,9	68 1117 00 716	98 C	SM3JLA	103,774		PA2ALF	25,694 151 58 B	HA4YV	7,196 89 28 B
KB4GID	309,042 849 118 C	XL9/WD8AUB 2,4	18 62	13 C	SMØBDS SM3LIV		238 75 A 266 74 B	PA3EWP PA3DWJ	20,736 150 32 B 14,145 205 69 B	HA8VK HA1ZZ	615,732 1247 156 C 467,604 1238 124 C
KN4QV K4BAI	129,390 508 95 C 115,206 515 78 C	Quebec			SM7RZF	39,008	200 53 B	PAØYN	3,564 162 22 B	HA4FV	11,022 247 72 C
Kentucky	•	VE2GHI 18,0	18 154	33 C	SM7HSP SM5OK		127 46 B 102 40 B	PA3BNT PA3BEJ	15,476 101 53 C 4,082 55 26 C	HASZO	5,985 56 35 C AH,DAC,DAE,TJ,
KI4DC	26,691 276 41 B	Zone 10			SM6AHU	3,020	53 20 B	PASENÉ (+PA	3EYZ)	TW,HG1DAI,o	ps)
KÇ4ULX KR4KL	19,223 151 47 B 9,860 106 29 B	Mexico			SLØCB (SMØTX		237 152 C	PIACOM (PAS	665,912 1215 152 D s ERC.GBQ,ops)		,237,894 3713 253 D VF,ZU,HA5s AWP,
N4XM	119,282 417 86 C		92 240	44 B 51 C	SM5IMO :	204,906	663 74 C	1 140011 (1 700	558,464 1247 128 D	BBC,BVD,EH,	MY,WA,OF.ops)
North Carol		XE1/AA6RX 42,3	01 233	510			536 173 C 505 93 C	Zone 28		HG5C (HA1AD	,424,476 2374 188 D ,HA5s LV,MA,MO,OG,
WB4IUY KS4S	58,133 401 61 A 20,724 141 44 A	Zone 11			SM5RE		192 57 C	Croatia		HA7XQ,ops)	
N4UH	375,100 1156 100 B	Barbados			SM6DPF SM6REA (+SM6		103 38 C 3,TOL)	9A2TX	24,017 163 47 B		,323,475 2535 167 D
K4PQL WZ3Q	826,284 1443 148 C 607,420 1306 121 C		58 537	78 B		184,639	565 91 D	9A2AJ	437,294 1014 139 C	Switzerland HB9AAA	232,650 513 110 B
W1IHN	58,459 287 53 C	Costa Rica	25 197		Zone 19			9A1BHI 9A/OK22QX	146,028 527 86 C 80,558 339 94 C	HB9ARF	155,520 582 108 C
KI4HN	4,784 102 23 C			5/6	European Ru	ssia		9A9D (9A4s D	D,KK,UU,9A7GCQ,ops) 303,892 1010 109 D	HB9DX HB9DEU	116,850 422 95 C 34,642 142 382 C
Northern Fi K4VUD	iorida 386.004 1198 114 B	Antigua & Barbu		18 C	RV1CC	13,590	398 110 A	9A6P (9A3s Z0	G,ZO,ops)	Liechtenste	
KD4HXT	2,550 172 10 B	Turks & Caicos			RW1ZQ RW1AN		51 26 A 084 152 C	9A1HBC (+op)	59,348 303 74 D 39,072 232 37 D	HBØ/DL2OBO/	P 49,260 273 61 B
AC4OC	26,400 180 50 C	VP5NC (AA4NC,op)			UA1ZO	134,442	523 44 C	Fed. Rep. o		HBØ/DL1SBF/F	29,736 195 56 C PA3s EZL,GBU,GBV,
South Caro			86 2443	3 159 A	RW1A (UA1-169 UA1-169-2391,			DL5IAR	1,362,200 1843 196 A		IL,NEV,NEX,NVK,ops)
KC4UH WD4FJP	47,992 259 56 A 90 B 6 A	Dominican Repu		B			581 60 D	DL3KDV DK7GH	849,090 1443 163 A 309,880 682 127 A		55,986 391 42 D
W4JKC	150,118 515 94 C		39 150 350 100		Zone 20			DL7VOG	220,662 622 123 A	italy IK1HSS	262,086 709 114 A
Southern F		Zone 12			Asiatic Russ	ia		DL1BKL DL2AYI	101,104 548 89 A 67,040 323 80 A	IK2UCK	132,392 570 76 A
W4PZV (WA45	SVO,op) 471,660 1128 140 B				RX9JA	10,074	124 40 B	DL4KMK	60,095 267 85 A	IK2VJF IØKHP	115,830 447 78 A 69,471 283 93 A
WD4AHZ	274,614 778 111 C	Bolivia CP1OZ (JE6CXU,op)					408 98 C 409 89 C	DL2HRA DL1ARJ	52,972 234 82 A 52,850 223 70 A	IN3ZNR	530,816 71 128 B
Tennessee			356 194	4 32 A	RK9JWJ (UA9s	JAF,JKT,V	VO,ops)	DK7LA	45,084 578 78 A	IK2XYI IK2RPE	51,952 294 68 B 50,320 212 74 B
WA6KUI/4 KS2X	209,825 699 109 A 56,580 381 60 A	Ecuador				34,866	421 67 D	DL8HCO DL2ARD	43,992 330 52 A 30.078 325 54 A	IKBIFW	10,350 101 45 B
KI4KR	1,584 39 18 B	HC4L 104,	951 203	3 50 B	Zone 21			DL2DUL	25,584 162 52 A	14CSP IK7RVY	7,474 82 37 B 5,292 132 21 B
W12M (KØEJ,	op) 518,520 1177 120 C	Colombia		. #0 D	Asiatic Russ			DL5JRA DL3BRA	16.371 120 51 A 392 26 14 A	IT9NVA	1,476 91 12 B
KO4EW	36,465 213 51 C		902 809	9 /8 15	RAØBR RK9KWI (+ops)		155 42 B 265 49 D	DL2DRM DL8PC	187 15 11 A 722,146 1108 178 B	IK4RSK IKØHBN	602 17 14 B 247,934 775 106 C
AC4EM AA4WX	34,656 190 57 C 11,256 108 28 C	<b>Peru</b> OA4EI 265,:	545 549	5 105 B		50,044	205 45 0	DL8OBQ	115,692 412 93 B	IØZUT IK5TSS	223,560 630 115 C 218,560 484 160 C
Virginia		OA4CWR 102,			Zone 26			DL8SDC DL6SFE	47,530 237 70 B 33,604 206 62 B	IT9DEC	39,866 404 62 C
AD4FX	46,155 199 51 A	Venezuela			Asiatic Russ		400 00 4	DL6ZFG	28,477 287 87 B	IV3FSG IT9ORA	17,808 112 56 C 2,862 31 18 C
WA4PGM N4MM	650,236 1073 149 B 106,848 307 96 B	YV2FEQ 31,4 YV1DRK 138,	887 150 148 38:		UAØKA RA1WO/Ø	8,380 1,136	106 20 A 50 8 A	DL7ZR DL1NOF	18,850 111 58 B 15,678 156 39 B	IR4T (I2VXJ,I4	s JMY,UFH,YSS,IK4s
KR4CZ	12,051 95 39 B		140 30	3 730	UAØKY	33,408	218 36 C	DL8KWR/P	14,632 100 62 B	IEE,MED,ops	) 1,792,635 2391 195 D
W4XD N4MO	77,004 408 62 C 36,309 239 57 C	Zone 13			Zone 27			DE2DDR DL3HWW	11,868 56 43 B 8,775 93 39 B	IU6F (I6s FLD,	WJB,IK6s BOB,CAC,
N4JEO	20,680 145 40 C	Argentina			Ireland			DK5KJ	7,896 87 42 B	IK8JVS,ops)	1,006,998 2082 157 D
WB4NFS)	E4DFI,KJ4VG,KO4FM, 278,584 362 97 D		376 20	6 77 B	EJ/IKØXBX	3,213	62 17 B	DL9ZWG DL1HSR	2,436 41 28 B 2,278 35 34 B		,TAN,TRK,ops)
W5		Fernando de No PYØFF 1,153,	r <b>onna</b> 740 169:	3 140 B	EI4DW	61,427	257 61 C	DL8SDI DL1IAO	1,440 48 7 B 742,462 1232 181 C	112T/3 (IK2IQR	910,116 1720 159 D ,IK3NLK,ops)
Louisiana			40 103	J 140 B	France F5NBX	155,775	505 93 A	DL6KVA	373,032 816 157 C	I6NOA (+NET)	322,368 842 96 D
N5OZB	31,857 235 41 B	Zone 14			F5RMY	48,484	252 62 A	DK3DM DK3KD	204,915 593 95 C 201,708 594 117 C	IKØADY (+ops	26,901 137 61 D
AB5PO	3,150 47 18 B	Argentina			TM2P (F5TCN,d		544 84 B	DLØDA	176,700 519 100 C	Sardinia	
Mississippi	i 45.695 293 65 B	LRØN (LU2NI,op) 249.	501 49	9 109 B	F2AR	68,540	255 92 B	DL4HRM DL5GG	162,922 539 106 C 123,375 395 105 C	ISØOMH	80,068 514 74 C
NSKKG KB5IXI	10,788 162 29 C		570 12	8 55 B	F2RO F5PCX	62,622 60.918		DL9JDT	111,469 390 83 C	Bulgaria	
W8		L3CW (LU6BEG,op) 370,	384 70	9 112 C	F5JBF	22,200	143 50 B	DJ9RR DL7URH	108,800 374 100 C 99,990 312 99 C	LZ2FM LZ1DM	9,405 71 57 A 23,155 175 55 B
		LU4FD 58, LU1EWL 32,		9 47 C 3 66 C	F6CEL TM9C (F5IN.op)		801 84 C	DI.2DWA	97,438 262 103 C	LZ1BJ	369,069 1063 129 C
Michigan waab∪Q	50,778 87 62 A	LU1BW 9,	044 7	7 28 C	` ' ' '	230,325	931 83 C	DL2SUB DL2GBB	91,273 314 91 C 86,480 332 92 C	LZ1TT LZ2CE	45,765 353 45 C 3,400 90 20 C
KB8LUV	22,134 247 34 B	LU1QW 9, LU1VV (+LU1VK,LU		7 28 C ELU4s	F6IIE F6OIE	96,135	606 109 C 367 85 C	DL7BQ DLØWMD	78,694 311 98 C 77,088 330 96 C	LZ2VP	2277 73 23 C
K8CV (+NET)	1,053 23 13 D	VY,VZ)			F5TNI F5NQL	55,450 45,528	295 50 C 255 56 C	DF3HU	76,076 339 76 C	LZ6G (+op)	19,401 236 29 D
<b>Ohio</b> KU8E	41,076 151 63 A		708 118	U 124 D	F5LET	33,726	249 42 C	DL8WN DKØHSC (DL1	56,059 303 61 C	Austria	
N6WLX/8	235,331 689 109 B	Paraguay ZP5XYE 15,	222 35	4 43 B	F5RAB TM2T (F5s ROP	4,560 (SIH,ops)	64 24 C		55,080 262 72 C	OE1KYW OE5SPW	77,196 367 84 A 18,590 120 65 A
KI8O N8LXS	198 18 6 B 321,639 1021 87 C		00		1,	144,485 1	989 145 D	DL5KUD DL1TH	50,310 231 78 C 49,720 221 88 C	OE1BKA	13,064 357 46 B
K8SJ	120,868 518 82 C	Zone 15			TM5M (F5s MY) FA1MXI,ops)	¬,мхн,н\\ 443,492 1	7A, 258 94 D	DL6CTG	49,680 278 72 C	OE1EMN OE9SLH	419,840 922 128 C 41,280 144 68 C
KF8TM WT8P	70,602 250 82 C 52,910 308 55 C	Brazil			F6GIN (+F5MY)	(,F6DBA)		DF1HF DL5SVB	47,570 288 71 C	OE2S (OE2s G	EN,LCM, VEL,ops)
N8BJQ (+NET		PW2N (PY2NY.op) 59,	904 21	4 64 A	F6KAW (F5PNP	F6s DZS,		DL7ANQ DL1QQ	42,849 235 74 C 41,538 240 69 C	=	992,796 1840 159 D
N8JEC (+WA8	BOSE, WBBLGK)	PY2APQ 56,	214 22	D 54 B		244,321	903 77 D	DL7VZF	38,880 162 81 C	Czech Repu	
NZ8Y (+N8RP	49,113 271 51 D		342 11: 040 7:				s) 393 110 D	DL1GHX DL/F5JDG	33,900 191 60 C 26,394 174 53 C	OK1DIG OK1FKV	290,904 820 75 A 181,540 580 116 A
THEO THEORE	7,981 91 7 D				England			DL4FDM	23,460 123 60 C	OK1KZ	151,151 533 99 A
West Virgin		Zone 18			G4JVG 1.		498 174 B	DL8ZWG DJØSH	20,352 143 58 C 11,050 139 26 C	OK2HI OK1DRQ	58,590 268 93 A
N8II K3JT	597,820 1134 142 A 86,359 356 73 C	Norway LA4BN 30,	240 179	0 54 B	GØOHW GØNIF	781	269 83 B 35 11 B	DJ2YE	7,980 110 30 C	OK1MM OK1DRR	379,320 849 120 B 11,220 114 34 B
KG8GW	14,120 135 16 C	LA2AD 21,	996 16	0 47 B	GØLII	543,972 1	005 156 C	DL1AKL DL1QQ (+AA0	3,792 65 16 C 3NV,T94DX)	OK2BMV	3,120 54 24 B
KF8UM (+N8V		LA2GCA 14, LA5MT 134,	574 11 302 37	1 42 B 7 106 C	G3TRF	117,728	600 127 C 366 167 C		481,005 1114 133 D	OK2PAY OK1RR	402,876 996 114 C 234,621 649 132 C
WO	107,070 TOO 112 U	LA3UG 20,	295 49	5 41 C	G3DFV	102,256	394 77 C 348 74 C	DKØOG (DL2) DF7RG,ops)	RMC,DL3MBG,	OK1ARN	193,693 635 109 C
W9		LA1CCA 8,		0 27 C	GØDEZ		U40 /4 U		453,184 1104 146 D	OK1MD OK1BMW	166,133 543 121 C 102,303 403 81 C
Illinois	979 790 1059 190 4	LA6ZFA (+LA2HJA,L	A5FBA,I	LA7EIA)	Northern Ire GIØNWG		598 114 A	DLØGVM (DL SVA,SUA,DK		OK1FPG	81,900 320 90 C
WX9U K9MMS	372,720 1052 120 A 258,108 622 137 A		040 162	4 65 D	Scotland	,520			442,120 998 140 D	OK1TW OK1BLC	65,850 276 75 C 46,905 266 59 C
NEØP/9 WA9WDT	3,476 48 22 A 168 28 6 A	Finland OH6NIO 1,181,	582 207	5 142 A	GMØECO		371 145 B	IAM,DB6IR,D		OK2BWJ	46,060 269 70 C
KD9ST	278,168 704 116 B	OH6LNI 1,036,	935 204	5 113 B	GM3CFS	45,280	322 40 C	DL4SDW (+DI	355,355 898 91 D	OK2VVN OK2BND	26,235 248 33 C 22,043 126 67 C
W9LYA	28,500 189 60 B		685 135 293 16	5 145 B 5 81 B	Wales	05.04	E 08- 150		225,582 608 127 D	OK1FIA	19,250 151 50 C
NA 1 D		J.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			GW3CSA (G1A		E,GIOS IEO).	DLØMBG (DL	Bs AKA,ALU,AYI,ops)	OK2KDS OK1FO	13,420 115 34 C
NA1R Indiana	223,734 655 98 C	OH2PM (OH1WZ,op	)		KXL.LHW.ops)				168 589 600 100 D		5,360 108 20 C
Indiana	52,838 911 58 A	970,	717 136	7 187 C 0 152 C	KXL,LHW,ops)	416,990 1	1113 98 D	DL5YYM/P (+	168,588 622 108 D DL2LSO)	OK2AJ	4,516 138 23 C
Indiana W9JOO N9DHN	52,838 911 58 A 9,100 122 35 A	970, OH8LAE 480, OH2YL 44,	717 136 928 94 890 17	0 152 C 0 67 C	Belgium	416,990 1			DL2LSO) 153,282 496 118 D	OK2AJ OK5W (OK1s	
Indiana W9JOO	52,838 911 58 A	970, OH8LAE 480, OH2YL 44, OH6UP 17,	717 136 928 94 890 17	0 152 C 0 67 C 9 46 C	Belgium	416,990 1 289,432	656 121 B 339 112 B	DL5YYM/P (+ DLØHRO (+N	DL2LSO) 153,282 496 118 D	OK2AJ OK5W (OK1s	4,516 138 23 C AEZ,CF,JKT,WF,

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OK1KQJ (+OK1AYP)	Zone 29	UT7ND 101,574 382 99 C	EA3EJI 115,137 381 99 B	JA7YAA (JF1s CKX,SXL,JG7PSJ,
70,376 296 76 D	Azerbaijan	UT5UJY 97,179 322 123 C UR3PDM 70,490 323 70 C	EA3BT 53,499 301 51 B	JRØSPG,ops)
OL5PLZ (OK1DDR,OK1-19973,ops) 67,405 269 85 D	4K9W 36,208 146 73 C	UU5JNW 55,084 360 47 C	EA3GHQ 28,060 152 61 B EA1EMZ 27,496 151 56 B	547,616 1088 109 D JAØYAK (JF1USQ,JE2RAJ,
Slovak Republic	Moldova	UT4EK 49,164 242 68 C US8UA 40,950 219 65 C	EA5AEI 18,725 154 35 B EA3CZM 17,200 100 43 B	JK2PVL,JS3VZL,JL7UPJ,
OM3YK 16,685 123 47 B	EV1F 273,812 877 98 C	UT2QT 20,280 292 30 C	EA1AKK 15,500 146 50 B	JEØWIP,JFØTJU,7M1FQD,7M2UKR, ops) 257,950 734 77 D
OM3FON 126,060 275 110 C OM3CCC 112,623 415 93 C	ER1OA 135,150 502 85 C ER1CW 117,920 522 80 C	UY2ZZ 18,540 233 30 C UX5VK 11,315 162 31 C	EA1AHA 8,216 109 26 B EC3ACG 2,590 61 14 B	JHOŽHQ (JH1s BBT,GNU,MDJ, JK1GKG,ops)
OM3CAB 45,198 292 62 C	ER3DX 86,856 382 88 C	UT1ZZ 6,867 111 21 C	EA3ACA 610 29 10 B	168,672 409 96 D
OM3TEG 20,790 117 66 C OM2I (OM3s CQL,TA,TSQ,TXM,	Belarus	UR5FCM 3,114 91 18 C UT1PO 1,584 58 12 C	EA7HAT 88,218 288 87 C EA3AEQ 80,642 351 61 C	JA7YAI (JE1NXR,JI2NJC,JI4ARB, JL7WEG,ops)
WPB,WST,ops)	EU1DQ 171,699 437 129 A EW4MM 188,589 577 111 B	US3IEZ 1,339 59 13 C	EA1FBJ 72,335 256 85 C	30,267 139 57 D
411,930 1209 115 D OM3RDP (OM3CDZ,OM3s -28173,	EU1MM 729,111 1470 141 C	UT2XX 330 22 15 C UU5A (UU1JA,UU2s JQ,JX,JZ,	EA2CR 18,538 133 46 C	Zone 46
-28756,ops)	EU6EU 103,586 363 98 C EW8OS 40,959 1107 37 C	UU3JD,UU3JW,UU5JR,UU7JF,UUØJX,	Balearic Islands	
144,352 531 42 D OM9CA (+ops)	Lithuania	UB5-067-2000,ops) 2,552,256 2923 252 D	EA6JN 2,057 53 11 B	Nigeria 5NØMVE 835,968 1174 128 B
30,444 210 59 D	LY1DR 593,775 212 175 A	UT7E (UT3s EC,EW,UR5s ECE,ECW,	Zone 39	Niger
Slovenia	LY2OU 111,549 365 103 A LY3BH 512,541 1131 123 B	EDU,UT5EL,ops) 2,300,400 3252 200 D	Israel	5U7Y 32,823 321 21 B
S50C (S57MM,op) 362,103 1009 129 A	LY2MW 302,211 831 123 C	Latvia	4X/OK1FMR 332,969 775 91 C 4X1VF 219,470 558 85 C	Zone 48
S53CAB 314,793 823 131 B S59AA 1.041,390 1679 171 C	LY2KM 157,815 518 105 C LY1CF 136,420 513 79 C	YL2GN 573,666 1296 138 A	Cyprus	Djibouti
S53DCM 790,071 1453 159 C	LY1CN 84,320 370 85 C	YL2GUV 672 28 12 B YL2EC 78,204 259 84 C	C48A (5B4ADA,op)	J28FX 12,714 99 26 C
S53R 551.102 1011 152 C S56A 415,728 850 144 C	LY3MR (LY1s FF,FR,LY3NFW,ops) 483,804 1156 151 D		1,852,590 2158 185 C C49C (5B4s KH,XF,WN,ops)	
S57J 277,794 717 122 C	European Russia	Zone 30	1,662,880 2316 58 D	Zone 50
S51WA 72,420 278 85 C S51QZ 62,060 247 58 C	UA3RAR 1,242,428 1698 187 A	European Russia RU4HY 55.862 436 34 A	P39P (+ops) 1,371,600 2124 135 D	Philippines DU1SAN 66,745 391 35 B
S51RW 15,179 119 43 C	RU3RN 50,139 222 81 A RW3WX 38,430 214 63 A	UA4HGG 158,270 560 85 C	Turkey	DU1SSR 3,978 45 18 B
S59DKR (S7s BZD,XX,ops) 278,997 951 113 D	RU4AA 37,152 236 54 A	RU4WE 86,940 327 84 C RX4HX 29,232 162 56 C	TA2ZO 23,850 200 25 C	DU7AFT 1,248 22 12 B SMØCNS/DU7 8,375 72 25 C
Poland	RZ3QQ 32,976 154 64 A RW9AB/6 279,698 372 214 B	RZ4WWB (UA4s WEI,WGY,WJF,ops)	Zone 44	
SO8IF (DJØIF,op)	UA3RE 200,680 524 116 B UA4NC 81,512 288 92 B	966,897 1641 173 D RK4WWA (RW4WA,UA4s WA,	China	Zone 52
533,216 1260 152 A SP5UAF 143,260 515 116 A	UA4NC 81,512 288 92 B RV4LP 55,554 177 94 B	WAN.ops)	BY5VZ 11,744 128 32 A	Angola
SP5YQ 81,984 224 67 A	RA3THN 22,503 2577 369 B RU3WT 18,500 149 60 B	775,260 1358 180 D	South Korea	D2TT (ON6TT,op) 626,428 1401 92 B
SP2WDW 80,520 328 88 A SP5ELA 66,164 318 68 A	RK4YYY 4,750 59 25 B	Asiatic Russia UW9QK 79,947 267 81 A	HLØK (HL1s DXK.LME.LUL.ODG.	
SP9RTI 64,600 326 76 A	UA6LP 381,276 1001 119 C RA4FW 300,580 725 133 C	UA9SHM 11,959 355 40 A	HL2IDW,HL3EAT,HL4GGI,ops) 67,260 330 59 D	Zone 53
SP1MHV 31,837 149 79 A SP6TRH 17,157 117 17 A	UA4AGP 159,948 505 108 C	RA9ST 33,349 285 89 B RA9FDR 4,541 55 19 B	Hong Kong	<b>Zimbabwe</b> Z21HS 4,695 63 15 C
SP7SEW 142,168 378 104 B	RV6LFE 125,538 475 98 C UA4YJ 121,885 398 95 C	RV9CE 53,650 253 50 C	VS6BG 104,832 356 84 C	
SP9BBH 118,320 444 102 B SP4SKW 101,649 470 97 B	RA3PP 112,385 395 95 C	UA9SCX 19,055 131 37 C RK9CYA (RA9CKQ,UA9CLZ,ops)	Zone 45	Zone 54
SP9UOG 85,424 354 68 B	RW3GU 110,126 433 82 C RX3RB 97,266 408 87 C	38,114 243 38 D		Brunei
SP9LDI 26,980 167 71 B	RW3RP 68,256 270 72 C	Uzbekistan	<b>Japan</b> JH7PKU 747,890 1303 130 A	V85BJ 20,975 175 25 B
SP9VEJ 23,184 206 42 B SP2WEI 18,310 97 26 B	UA4ANZ 43,870 173 82 C UA4HY 43,520 241 68 C	UK7R (UK8s ADT,AX,ops) 24,986 568 101 D	JR4GPA 205,246 601 82 A	Indonesia YB2BKI 3,484 126 26 A
SP8OON 17,150 130 50 B	RW3WM 33,384 266 39 C UA4SS 32,780 226 55 C	UK8BWO (UK8s BAM,BCQ,BDA,	JA4CUU 80,524 254 82 A JH4NMT 55,115 185 73 A	YB2JOY 125 5 5 B
SP6FBD/3 16,560 135 40 B SP6EII 13,608 128 42 B	UA4YG 23,800 230 40 C	BN,ops) 21,750 207 25 D	JK2VOC 35,834 348 46 A	YBØASI (AA4U,op) 226,442 484 101 C
SP8OOB 13,095 133 45 B	RA6HE 21,170 125 58 C RA3VY 14,544 148 36 C	Kazakhstan UN9LGS 37,440 234 36 C	JFØSGW 35,380 140 61 A JHØHON 3,168 144 22 A	YB6ZZ (YC6MHH,op)
SP9MQD 11,200 100 50 B SP9EMV 7,525 107 25 B	RA3RFG 16 4 4 C	UN7ID 12,150 76 45 C	JG1RDV 2,835 65 21 A	52,728 272 39 C
SP7GSM 2,562 110 23 B	RU6L (UA6s LFQ,LV,NP,UT2IW, UR5IBG,UA6-150-1403,ops)	Zone 31	JAØGZ 2,071 25 19 A JK7JCC 12 2 2 A	Zone 55
SP8TDE 2,484 34 23 B SP9FTJ 2,120 32 20 B	1,777,888 2185 220 D		JA7BEW 126,918 411 66 B	Australia
SP7GIQ 731,126 1252 167 C	RW6AWC (UA6s AAY,AJU,AQA,ops) 1,576,274 2058 238 D	Asiatic Russia RZ900 264,240 1047 60 A	JR4QZH 105,420 397 60 B JH7LRS 81,984 300 61 B	VK4EMM 318,240 648 104 C VK4EET 132,840 364 82 C
SP2AYC 186,377 575 113 C SP6YAQ 156,240 471 112 C	RZ6HWA (RA6FV,RW6s MA,MZ,ops)	RZ9U (RZ9UA,op)	JH1UUT 37,383 177 51 B JA6CM 14,245 99 35 B	VK4TT 4,950 69 15 C
SP5TT 127,380 386 110 C	741,704 1232 184 D RK3EWW (RA3EA,RZ3EM,UA3s	1,192,498 1468 179 B UA9UUN 6,776 60 28 B	7K2DOD 12,640 89 32 B	Zone 59
SP3FAR 97,020 250 110 C SP4GFG 65,600 316 82 C	EDQ,UA3s -147-505, -147-512,		7K2GNK 10,208 84 29 B JR7WAB 9,476 170 23 B	
SP1AEN 45,760 268 64 C SP8BAB 33,072 194 39 C	-147-541,ops) 602,188 1258 151 D	Zone 32	JA1IT 9,141 595 33 B	Australia VK2VM 27,324 118 54 A
SP6AUI 25,440 147 60 C	RZ6HWH (+ops) 420,660 1237 108 D	Asiatic Russia UA3D/Ø (UA3DPX.op)	JR1MRG 4,482 166 27 B JE1LGY 3,465 36 21 B	VK5GN 91,350 304 63 B
SP1BLE 22,764 146 42 C SP3AOT 15,600 107 48 C	RZ4AYT (RA4AI,UA4AIY,	1,023,840 1411 160 A	7K1EHK 3,384 46 18 B	VK2APK 364,302 696 111 C VK2AYD 152,978 345 98 C
SP9HNB 14,382 136 47 C	UA4-156-1052,ops) 254,198 726 134 D	UAØST 11,618 98 37 B RWØAB 341,328 742 104 C	JA1STY 1,710 27 18 B JA2GHP 845 19 13 B	Zone 60
SP6CXH 7,982 99 26 C SP6SYF 7,304 112 22 C	RZ1AYX (RX1AW,UA1ANE,	RKØSXF (UA8TAA,RUØSN,UAØs	JL6IPK 832 20 13 B	
SP4EAK 5,175 66 23 C	RW6HJV,ops) 165,216 1220 72 D RK3UWA (+ops)	SMM,SUI,ops) 467,375 842 125 D	JH1RMH 162 9 6 B	New Zealand ZL2AGY 89,271 297 63 C
SO5TW 4,446 108 26 C SP9KRT 3,402 47 54 C	123,375 520 75 D		JH2WHS 156 39 4 B JJ1NUI 75 5 5 B	ZL1AIZ 48,576 165 66 C
SNØPR (SP6s ALE, BGL, FER,	RK3DZD (RV3DA,UA3-142-1896,ops) 117,525 493 75 D	Zone 33	JG1GCO 16 2 2 B	ZL3SL 115 5 5 C
HAO,ops) 112,203 380 117 D Greece	RK3PWJ (RW3PN,UA3PNO,	Asiatic Russia UAØJB 133,282 328 103 C	JH7XGN 426,474 1642 114 C JA7DLE 224,884 718 76 C	Zone 61
SV2BFN 11,396 115 94 B	UV3AKK,ops) 105,840 393 84 D RK3QWB (+ops)	RAØJX 91,934 1069 86 C	JA9CWJ 141,100 374 85 C	Hawaii
Bosnia-Herzegovina	762 260 75 D	Zone 34	JA2IU 121,728 30 96 C JF3IUC 106,020 306 93 C	KH6FKG 263,004 866 62 B KH6GMP 36,387 193 39 B
T9A (T91ENS,T93M,T94s DD,NE,	Ukraine	Asiatic Russia	JQ1VNM 103,520 308 80 C	AH6JF 25,200 146 36 C
ON,T99W) 1,580,128 2790 176 D	EN1I (US1ITU,op) 1,081,917 1679 175 A	RAØFU 41,401 521 127 A	JA2KVB 96,147 286 81 C JI3BFC 84,312 281 72 C	Zone 75
Romania	UX7FN 370,448 974 137 A	RZØLWA (RWØLMF,op)	JA3ARM 81,548 264 74 C	Franz Josef Land
YO5BQ 7,904 117 32 A YO2CJX 3,683 86 29 A	UR4LRQ 266,448 453 122 A UUØJ (UUØJZ,op)	71,640 332 60 B	JR7OMD/2 48,106 172 67 C	R1FJV 135 9 9 A
YO9FNR 33,672 216 69 B YO3AIL 21,168 162 54 B	235,368 1633 143 A UX8I (UX8IX,op)	Zone 35	JA5APU 47,648 313 32 C JA1QOW 46,252 164 62 C	R1FJC 131,334 600 53 C 4K2MAL 224 8 7 C
YO8ROO 18,990 133 45 B	174,124 588 101 A	Asiatic Russia UAØZAJ 35,240 225 40 C	JL4CMT 35,742 191 46 C	
YO5BWI 12,876 132 37 B YR8A (YO8AXP,op)	UY2ZA 124,478 418 109 A UU2JA 124,254 339 118 A	7-n- 26	JA1WYQ 34,408 130 68 C JHØGHZ 31,920 136 57 C	Checklogs CI2/WD8AUB, DF5WN, DL1AVH,
203,016 668 132 C	UY5TE 123,876 476 93 A	Zone 36	JF3NLQ 25,905 121 55 C	DL1JPF, DL3ARX, DL3HRA, DL3ZBJ,
YO8FR 85,916 356 94 C YO8BPY 75,650 372 89 C	US3IZ 107,370 418 90 A US3LX 66,682 297 77 A	Madeira Islands CR3R (CT3BX,op)	JP1DMX/6 24,990 142 49 C JH1EIG 24,864 94 84 C	DL4HQF, DL4VAD, DL6MTA, DL6UCI, DL8UFO/P, EA1EXU,
YO4AAC 600 40 10 C	UT5XF 25,896 264 26 A	3,718,451 1909 389 B	JA1GTF 13,454 92 31 C	EA3GDX, EA3JC, EA4BJD, EA5BZS,
YO7KJX (YO7s BGA,LFU,ops) 240,282 729 126 D	UR5LBX 16,104 178 33 A UR5EPV 10,800 196 18 A	Canary Islands	JA7MWC 12,716 86 34 C JF1SQC 10,430 70 35 C	EA7GBD, ED5URN, EV1HQ, F9LT, HC2GRC, IK3SCB, IK4WMG,
YO8KAN (YO8s BFC,RGJ,ops)	UR5MAF 2,209,116 2378 221 B	EA8BXQ 20,102 117 38 B	JA3EEM 9,218 69 34 C	JR1XKU, K7EFB, KB8QO, LA2MV,
164,268 528 108 D	ENØD (UT7DX,op) 1,266,252 2154 156 B	Zone 37	JE1PMQ 9,016 78 28 C JJ1VRO 6,758 56 31 C	LU2DKN, LY2BAG, LZ6A, OZ5PA, PA2GWA, SMØCSX, SP2JGK,
<b>Yugoslavia</b> YZ7ØTY 105,210 431 90 A	UXØMM 868,700 1672 146 B	Portugal	JA1KI 6,664 54 34 C	SP3FZN, SP4CHY, SP4CMW,
YT1AD 1,149,660 1887 180 B	UXØLT 414,030 604 228 B UY3CC 87,856 377 76 B	CT1BWW 77,000 297 70 B	JA8AJE 6,600 58 30 C JG5OYU 5,404 47 28 C	SP6CIK, SP6CZ, SP9CLO, SP9CQ, SP9HOF, SP9LAS, SP9LDP,
YZ7V 620,796 1282 132 C YU1HA 262,990 722 130 C	UXØHA 14,769 156 27 B	CT8T (CT1s BQH,DVV,ESV ops) 1,073,754 1980 153 D	7M2JTT 4,725 53 25 C	SP9MCU, SP9MDY, SP9QME, UA3WCV, UA4PY, VE1ACO,
YU7XM 140,192 507 101 C	UX2HO 814,660 1484 154 C UR7VA 594,732 1108 174 C	Spain	JA1AB 2,816 34 22 C	VE3KLM, VE6AO, VR2KF, W4RA,
YU7SF 129,222 443 107 C 4N1N (YU4NJ,op)	UT4PZ 503,360 1136 130 C	ED5URN 135,320 567 68 A	JA1XEM 1,284 23 12 C JH1NXU 611 13 13 C	YO3AS, YO4DIJ, YO6OEK.
62,396 518 38 C	UX7IA 335,600 835 140 C	EA3GEP 72,800 469 32 A	JE1KDM 399 13 7 C	
Albania	UR5EAT 289,613 871 109 C UX5EF 203,580 513 130 C	EA1UX 201,239 916 61 B EA5GRC 164,528 458 112 B	JA6QDU 252 10 6 C JA1AAT 168 8 7 C	
ZA1AJ (OK1PSZ,op) 678,155 1787 145 C	UR4LCB 177,856 534 112 C	•	JF3XMI 32 4 2 C	
575,755 1767 140 0	UR3MP 107,338 468 82 C			
	,			