

ARRL DXCC - 160 Meters

The ARRL DXCC is awarded to amateurs who submit confirmations for contacts with 100 or more entities on the ARRL DXCC List. As of 07 Apr 2026, there were 340 current entities on the list. The DXCC Honor Roll includes those who are within 9 entities of that figure for the Mixed, Phone, CW and Digital awards. The following listing of the DXCC membership contains the call signs and exact credited totals by endorsement level. Awards are NOT activated automatically; participants must apply to have a particular award (band, mode etc) activated when the qualifying number of credits is obtained. "Inactive" members (whose most recent DXCC application was before 1994-01-01 and who are not a current ARRL member) are shown in gray.

See the [ARRL DXCC FAQ](#) for details.

344 W8LRL	325 EY8MM K9UWA	316 IK4WMA N1DG	RA3CQ SM5BFJ SM6CVX	GM3YTS N4JJ* SV8JE
341 EA8AK	ON4UN* UA2FF	OH3SR PE5T W2VO	W5IZ	303 F5LGE G0JHC
340 K1ZM	324 K2TQC K4PI	315 S50U W1JR	309 IK4MGP W3GH*	JA1BK JA4LKB K1UO K9QVB* RU3DX
339 W4DR W4ZV	OH2BO W1NG	314 IK4GME NX4D	308 IV3PRK K4SV K8GG	302 N3XX SV1FJA
335 OH2BU R7LV	SP5EWY	OG2M OK3GU OZ1LO	N4RJ UT3UA	301 DL9KR F6BKI LZ2JE N1RJ PA3FQA SM3EVR SP3EPK SV8CS
334 N4WW VE1ZZ*	322 UX0UN W3UR	RW2A UA4CR	307 CT1EEB DJ7MI OH5VT VE3EJ	300 G3KMA I2ZFD JA2JPA JA4DND JA4LXY OE1WEU VA3EF
332 UR0MC	321 K5NA* WB9Z	313 GM3POI OE3GCU OZ7YY	306 DL4MCF EA6SX K4CIA SM0AJU WT3Q YU1FW	
331 K5UR LZ2DF R4GM UA4CC UT7QF	320 K8MFO SM4HCM W8UVZ	312 OH1MA S54E	305 JA7NI K4ZW N4IS NN4T RW3PZ* SM3GSK UA6A	
330 AA1K HA0DU OH1XX	319 N0XA SM4CAN UT5UGR W9ZR	311 DF3CB DJ6RX DJ9KG G3PQA KJ9I RA7A RZ3AM SP2FAX		
329 K3UL UA4HBW	318 4X4DK	310 I4AVG I4EWH	304 DJ0MDR GM3GAV	299 EU7A K4TEA N1BUG UX1UA W7UT
326 S50A	317 I4EAT* K5RK W3LPL			

298 9A2AJ DF2UU IK2DFZ OE6IMD OZ3PZ RA3DX SM5CEU	291 9A7V HB9BGV I5NPH KD9SV R7NW SM6CMU SP3E UA3LAR UT7UJ	IK6DLK JH4IFF NJ6P SP3DV UX1AA	JA3FYC K5DU RU3FM SP9DWT	271 G4GED JA5AUC LA3MHA OZ1CTK SM5KNV SP9JZU
297 DK5PR N4CC OM2XW W0CD* W0FLS	290 CT1APE UA3AKO UT1UY	283 DL7VEE JA5EXW K4SO N7NR NA0Y NO3M R3OK SM6DHF	277 AA4MM DJ9VA DK5WL IK5BAF K1ZZ OH3BU ON7TK	270 AA1V KD5M OE5KE SV8BHN
296 DF3GY DJ2BW* F5NTV G4PWA ON5NT RY9C W1JZ	289 JA3ONB K0KX K4WM N8DX RX4HZ US4EX US5WE	282 DL1YD I0WDX K8KS K9CT N2LT N4KG* SM6CTQ UY5ZZ W0BV W2YC	276 F6GCP G3LZQ N8RR OK1AWZ VE2TZT	269 K6ND W1ZC
295 K3UA WD5COV	288 PA3GCV SL0ZG SP7VC UA4LY W0JX WK3N	281 DF2PY IK4DRY JA2PJC K1CP S59Z W4TO	275 9A1CCY F5NBU I2AOX IK4CIE K2UO K4IQJ KF2O SP6AEG UW2ZM W2OKM*	268 DL5DSM G3WPH K8PT RA3XDX SM5DJZ* W1MK
294 DL1AMQ IZ0AEG JH2FXK JR2KDN LA5HE N0TB RJ3AA	287 DL1RWN G3XTT N2QT RK4FD UR5WA VA3DX W4PK	280 EA6NB KG4W N9IW RV3LO SP6HEQ YO3APJ	274 CT1EKY G3TXF JA8ISU MD0CCE W6UB	267 G4OBK LU8DPM RW0LT RZ3DX SP5DIR W1GL
293 IK1GPG JH4UYB KV4FZ* S58T SM3NRY	286 DJ2YA K3SX N3SL PA0WRS UA3AB UT7UW W8AV	279 F6AOJ JR7VHZ N2TK N5DG SM6CNN SP5CJQ UA6MF	273 IK8HJC K2CL K5BG RA3DA SM6CCO UA3DPM	266 EI7BA K1QX NR1R R3LA W8TE W8XD
292 G4BWP OZ1BTE R7FK* SM5AQD SP3IBS SV1AOZ W3YX W5ZN W8TOP	285 G4CCZ K5XI	278 DK0EE F6BEE HB9AMO	272 9A2EU DL1DUL DL2OE OH1LEU PA7MM SP6CIK	265 AA4V* AA6YQ AA7A EA5BM K4XP YO5BRZ
	284 HB9BIN			264 IK2YCW IK5HHA K7ZV N3NT R5AJ

263 IZ1ANU K9OW KX4R LA5IIA W2SM W3AP	K5VRX KY7M ON4AOI SV8CKM SV8GFW W1TSP W3DF	249 AI9L K9RX SP5DRH	ON4ATW S57A W9RPM WX4G	DL8WN IK0XEZ NI0G RA0FF VO1HP
262 G0DQS K4UEE* KR9U N5KD UX4UA* W1YY	255 K4QL N2MF VK4MA W3KX W5OZI	248 K2FF K3WW K5RX N6TR SM3VAC T77C W9NGA	242 EA4KD G8VR KG7H OK1CF	237 DL7MAE K1VW* OM4EX W4YO* WA7NB
261 9A4T DL9YX K2EK K5KC N6SS NO8D SP1S UX0FF	254 I1EIS N0AT OM3DX WA4FFW	247 K0IEA K6XT NN4X NO2R OE2LCM R7IA WA7NS WB3AVN YO9HP	241 JA0DAI JA1SYY JA3EMU K5ZK KA9CFD N4XM N5TY* N7RT OK1DWJ SP5GRM UA3TT VE1YX VE3NH	236 AB4I K1JO K5EK K9NR K9ZO KC7V OK2ZI OZ4O SP8AJK
260 I1FQH K1LT K4DY UT9FJ	253 5B4AGN IV3YYK JQ3DUE K5ESW R5DT S58Q SP9FKQ* UA1OMS W0YG	246 DJ2TI F2JD IK0MHR JF8QNF TF4M UR5EDX W2TQC W5XZ	240 EA6ET IZ1LBG JA5MHD JR3GWZ K0JUH K0KT K1DG K1FZ K1ZG K9OT LA2XPA UR5MID VO1NA	235 CX6VM EA6VQ JA0FSB JH4ADV K3SWZ N6DX R7DX S51DI VE3XN
259 DF4PL G3ZSS IV3ODE K8FL N2NL R9FM	252 EA1DR JA2VPO JF2MBF JG3QZN JR3IIR PA4VHF S52F W3UM	245 DL4CF JA1GV JA7QVI N9US RL9F RY7G W9XY	239 AJ6T IK0YUT IW1ARB K1HTV KH6AT LY3UM NV9L RN3QN RU3QR SV1ELF UW5ZM W3LL	234 IK6FWJ JG1ULJ K1AR K4UTE KF0QR PY1BVY VE7IG* W7AO
258 KW9A N8TR RN3CT VE3QAA	251 AB3CV DJ7RD DL9RT JH0BBE PY2RO W5UN W7LR	244 AG9S DK6WL F6BLP IZ8FFA JA1HGY ON4IQ SV1RK		
257 AA1QD JH1GZE K1GUN K9NW N4II W9YSX	250 HB9RG IK0XBX NQ1K OZ8BZ	243 DK2JX DK3DG JA0CRI		233 DF6PB DJ5FI IZ4BEZ* JH1HGC K0CS K2UU KA7T SK3PY UA4HAU VA2WA W1TC
256 9A5CY JA5BZL			238 AC4G	

YO7LCB	W9BF	K6EID	W5PJR	212
232	226	K8FH	217	AA9A
EA1N	9A8A	K8ZTT	DM5EE	DL9GFB
FK8CP	DL5WW	N4PQX	JA9PPC	G0OIL
JA8EAT	JA6BZI	N5AW	JH1IFS	K4MQG
K2AZ	JF2KOZ	N5JR	K5PC	K8ZH
K4XL	JR6EZE	N8PR	ON6YH	KE9I
NI6T	K9FD*	N9BX	UA3AGW	KG6I
UA3AP	ON4GG	SM0CCM		N1ZZ
231	SP3CGK	221	216	N4MM
4X4NJ	US0SY	IZ8VYU	F6DAY	NX0I
HA9RE	UT5JAJ	JF3KON	K3JGJ	SM5CZQ
N6AR	VE6WZ	JJ3PRT	LA4GHA	W1ECT
N7NG	W0VTT	K8SIX	N5UL	WA5VGI
ON4ACG	225	LA7GIA	OE1ZL	WB9CIF
W9IXX	A45XR	LB8DC	RA1QD	211
230	IZ8FVN	N6VR	RZ0AF	EA1RT
JA1CMD	JH7PFD	OZ1AXG	W0GJ	IK4DRR
JA2NDQ	K1MM	VE3LYC	W6XA	JA4DEN
KD0Q	K5AB	W1ZK	YU3AA	K3WA
N8JV	K9FD/KH6*	W6JRY	YV1DIG	RU3SD
SM3NXS	KV7K	WS6X		210
W4GF	N4CH	220	215	I8SAT
W4VQ	RA3QK	AG8B	JH0INP	JA7MSQ
229	RV1CC	DK2NG	N7JW	JJ2LPV
CT1FJK	RW3XZ	HB9LCW	RA3S	K0MN*
DJ4AX	SP8NR	HL5IVL	W0UO	RV0AR
E72A	VA5DX	JR4OZR	W2LK	UW7LL
JA8FKO	W7KW	K4NA	W6YI	W7JW
J11BEX	224	K5EJ	214	209
K4HB	MM0EAX	KA1R	DL7BA	DL5CF
OE5NNN	N0AV	VE3EXY	HL3IUA	DL9MRF
RO7T	N8BM*	219	JA2IVK	EU1KY
228	SP5INQ	IK3VUU	JA2JW	HB9CXZ
AF9H	SP7GAQ	JA2FBY	K1AM*	HB9DDZ
AI0O	VK6VZ	JA2FJP	OK1DX	JA0UUA
N2WK	W2RQ	K6TA*	RN7G	JA9FPI
NT0V*	223	LA7JO	W4NL	JF4VZT
OH2BEN	AB0X	OE8RT	WP4U	K5RT
VE3DZ	DJ8NK	RA3WDK	WS9V	KG9N
WB6RSE	HA7TM	SP4K	213	N9LB
227	JA2WYN	UT7UV	DF2IS	VE1DX
DL7HU	JH2TPI	WA2UUK	EI3IO	W0AIH*
ES1RA	N1LN	218	HA1RW	W0ZR
I3BUI	RT6T	AD5A	JF6DSZ	W6PBI*
IK0HBN	SV2JAO	DJ4PI	K1ST	W7KNT
JA1UQP	UR5FEO	DK0PM	NA2M*	W9OO
JA9CHI	ZS4TX	IK1YDB	RU4SO	208
K1FK	222	JA6LCJ	W0LYI	G3NSM
K3NW	IV3JVJ	JA8CDT	W1FJ	I4LCK
N6JV	K3SV	K0EU	W2WG	K2FU
	K4MWB	K5UO	W3YY	LA7HJA
		UT4MF		N5ORT

PY2XB
RU3ZX
RX3APM
SM5JE*
UN5J
UY1HY
W6PJ
W9EWZ

207

K1DT
K1LPS
K3JT
K8EUR
N9AU*
PY2BW
US0KW
W0LS

206

IK0IOL
JA3PIS
K2VV
K3LR
K5AQ
K5MC
K8AC
K9YY
KC6AWX*
N8DJX
SM6BZV
VE3BW

205

F6EXV
I4KDJ
JA3AAW
K9US
KA9FOX
OH1TV
W8UN
WB8ZRL

204

9A2NA
DF2GH
DJ5AV
EA5KA
F4BKV
IK7NXM
JA9NFO
K2NV
K4JJW
K4XO
KK4SI
LX2A
N4NX

N4QS
N7FU
SM2OAN
UA0SR
US6EX
W2HUV
WD8PKF
WF4U
WI8A

203

AA5AM
JA2XYO
JE1PNX
JF1PUW
K9MMS
KA1J
KK2I
NK1K
PA0A
R6AF
W7DO
W8GC
WA2HZO

202

DK2LO
DL1MGB
DL2KQ
DL9DRA
HB9DDO
JA2JNA
JA3CSZ
JA5AQC
JH3VNC
JI2KXX
K1GG
LY1G
N5ZM
N7KA
OK1DOT
R9TO
UA9FAR
W1NT
ZL3IX

201

AG4W
CU2DX
DL1EJA
JO7WXN
K3HP
W0MHK
W2IRT
W5TCX

200

IK0FVC
JA1GTF
JH2RMU
K1GE
LA5YJ
RW4NN
RW7M
UY0ZG
W0DD
W3GG

199

G0BNR
JA2DPC
K6GXO
KB8VAO
N4DW
W1TO
YO2DFA

198

DL1ROJ
G3UJE
G4BUE
I5KKW
IT9JNR
JA4PXC
W8HB

197

G3SNN
JA0EOK
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JH1QAX
JH2UVL
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K8NVR
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OE5FIN
ON4CD
RZ6FA
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K3PA
K8PO

KP2A
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RA9CMO
RZ4FO
W2FCR

195

EA3JL
EA5RM
G3ZEM
JA1EOD
JA1XEC
JN7FAH
K7SO
K9RT
KF8UN
LA0FA
N1SV
W4FC
W5ZG
W9OP
WN6W

194

K0BBC
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K9JF
KB9LIE
OH2IS
W2LO
WD8JJA

193

CT1IUA
DK1FW
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DL6ZXG
EA3WD
HA5BSW
K4ODL
N5LZ
N9EN
PA0LOU
RN1ON
RN9N
UA0CA
W0RI*
W9MU
WA2VYA
WE9R

192

AD8P*
JA1ANR
JA7JWF
JH1RFR
K3FN

K4FJ
K5XX
K7GM
K9EU
KF7PG
N4DB
NE1B
W3UA
W3YQ
W8LGJ

191

CT3MD
K0JGH
K8FC
K9LA
RK2FWA

190

IZ8XQC
JA0VSH
JA1DUH
JA1MCU
K2TE
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KB1EFS
KM1D
N4XU
N5GH
SP2LNV
VE7VV
W9AJ

189

9A2F
AA1ON
CT1FMX
EA8PP
FM5CD
K4CN
SM0NJO
SP7HOV
UA7T
W5DM*
WA3C

188

AB4IQ
HK3W
JA1KQX
JA8DNV
KB0EO
KE9ET
KL0S
N8LJ
NN2L
RM0F

W1YM	N9MB	JA4MRL	WA9PIE	DL6KR
W6SR	ON6SAS	JL1SAM	WX0V	G0EHO
W8JV	W2FP	K2UR		HA9PP
WA6YEE	W8NW	N7XR	174	JA6HUG
187	182	NE0U	JA0GJJ	JR1TNE
AJ1H	DJ9ON	SM7DLK	JA2XW	K1NU
K0SR	DK3UA	SV1JG	JA7MOL	K2FL*
K6SRZ	JA1SHE	W6NWS	JF7DZA	N0RN
KN5O	JR7BDQ	W7MEM	JK1OPL	N4OGW
N2NS	N3OC	WC4X	JR6PGB	N7RO
OK1CZ	UR3EO	ZS1LS	K1KI	RA3DNC
SP3FAR	UT5UT*	177	K2KA	SV1LK
W7AWA		9H1SP	K2PLF*	W7YAQ
	181	AE5E	K3AJ	
186	DK3WW	CT1GFK	K4TR	170
IK2QPR	JA2BDR	K3WC	K4WS	DJ6TK
JA2LCP	JA9TWN	K4RG	LA9GX	HB9TKS
JA2ZL	JN4MMO	K5GKC	N1EN	IK0PEA
K0BJ	K2EP	K9NU	OE1WHC	IT9DSZ
K7LAY	LZ2ZG	KI5BLU	RN7F	JA6JPS
YL2TW	VE3OSZ	OK1DWC	UA3LNM	JF1WPB
	W1RM	PY5EW	W8UV	JM1GYQ
185	180	SM6DHU	W8VVG	K6ZZ
AB6QM	4Z5MU	W5LT	WT8C	N4PY
CT1EAV	DM2DXA	W7FI	173	SP3GTS
EA6BF	DM3VL	WB7B	5B4ALJ	SV3KH
G3KWK	EA8JF	176	I1JQJ	W9EVI
IK3SWB	IK4ADE	EU1AB	JE2LPC	169
JA3ENN	JE2URF	G0BLB	JE3ENP	JA1ADT
K5ZD	JG0CQK	I6FLD	K1NTR	JR1IZM
LA3WAA	K6SSS	JA0DET	K4XR	K1LI
N4TJ	K7BG	JA5IU	K9YC	N4XX
N5UR	LA9AJA	JA6BJV	N5FG	N7US
OE2BZL	N1RR	JA8KSF	RC9F	RN3OG
SV1DPI	N4AH	JS3CTQ	UN9L	UT8MM
UA9CBO	ON5FP	K8MN	VE6WQ	UY5AA
W0EWM*	W2OR	N5OK	W3IP	W6RW
	W7BEM	PE1L	172	WA0MHJ
184	W8TN	RL3FA	EA7TV	WB3JFS
HA5WA	179	SM5FUG	G3NKC	168
IW0SAF	IT9ELD	SP1MGM	HB9FMN	G3MXJ
JF1NZW	JA9NLE	W4BP	IZ5MOQ	I2ZGC
K4HGX	K0TT	W4GD	JA3FGJ	IK2EGL
K5KLA	K8WK	YO7NE	JG3IWL	JA6VQA
KB4ET	N2PK	175	K0DEQ	JE7JDL
N9RC	OK1MG	JA1CHN	K1BD	JF2UPM
S57AC	S57UN	JA1PPW	K6FG	K4XD
US8UA	SM4DDE	JH2QMT	KJ0M	K5QY
UT2UB	SV3FUP	K4DLI	W3JX	K8RYU
W2YJ	W8KEN	LA5LJA	W4FQT	K9MBQ
183	178	N7IR	WA3AFS	KR4F
CT1FPQ	4Z5CX	TF3SG	WA5YNB	N4QQ
IT9INO	EA3CJ	VE3FF	171	N8BJQ
K8RRT		W8HC	AA9D	PA7F
K8VC				SP5GH

SP6EQZ
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W4SVO
W6VX
W8OI

167

DK5AD
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WB0TEV
WC5N

166

4Z1UF
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165

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164

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163

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162

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161

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YU2TW
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160

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159

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JA9APS
JH6QFJ
JL1RUC
K4RO
OK2ZV
UN7JX
W3HKK
W6BJH
W7SX
WD5BJT

158

AA6AA
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J11NJC
JR1GJP
JR3OEH
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K5TT

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KQ4AV
OZ1HX
RU6M
SM4EMO
W0SZ
W1OX
W3GQ
W4QN
WS5W

157

AA4H
AB9V
AC6DD
DL4MM
EA5BY
G3TQZ
JA1GHH
JH7IAJ
K0QC
LY5A
N3RC
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NE9Z
RU4UR
SM3PHM
SV8ZS
W2TA
W5GZ
W7TVF*
WS7L
YV2IF

156

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JE3GRQ
JO7HAM
K8YSE
KS1J
N3UA
N7WS
UA3SAQ
VA3LX
W1YIF
W4TV

155

DL1RK
DL4SZB
K2LS
N2ZN
NE0DX
NW7E
SM6VR
W2XI

WE1P
ZS6EZ

154

3V8SF
F5LVL
GM3PPE
IZ3ENH
JA8NFV
K0KVR
KR2Q
NX8Y
RN3TT
SV1CNS
W1NA
W5DNT
YS1RR

153

AJ9C
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DF2RG
DL1DUO
DL3ZA
G3TJW
HL2CFY
JF1IRW
JR1XIS
JR9OPJ
K7SP
K8VfV
KD0PO
LZ1PM
N4TV
N5TW
N8II
R9OK
SM6CLU
SP5CCC
UT5UY
WB8BPU
WJ4T*

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EW2A
JA2VQF
JT1CO
K9MK
KS3F
N9OY
S55ZZ
UA6IGI
UN7LZ
UT5AB
VE6LB
W1SKU
W1VT

W2RS*	IK4FNF	W1IZL	143	W4VIC
W6RLL	IZ0RVI	W1ZT	DL6EN	W8GNM
W7AJ	JL1ARF		HB9CQK	W8HW
W9JJB	K3TN	145	IK8GYS	140
WB3CQM	K4YYL	AF4HX	IT9BLB	9A1CAL
151	K6NR	HI3T	K7CMZ	JA4OK
AA7G	K7HP	IT9ZZO	K7CW	K5WK
DK2OY	K8ME	JE6TSP	N2RJ	K6KLY
EI9JF	NA5C	JH4HMG	N5UW	KF8DX
F3SG	R8TX	JH7RXU	N6PAT	N4XP
HB9SLO	SM6CUK	JJ3HGJ	NN4R	OH6NIO
JA6BEE	UW7UA	JK1AJX	VE3CV*	ON7DR
JH1NYM	W0GG	K3VAT	W0IZ	UN1L
K2AX	W7HPW	K4OY	W6QUV	VE6SV
K2FW	WB8B	K8BL	WB8CQV	W0SEI
K8ROX	WD5K	KF6HI	WB8ZRV	W4NU
LA6OP	YO3DDZ	KR0P	WD9DZV	W7IV
N5JB	148	N1CGP	142	W8LWU
OK1ATP	DK2CC	N4GG	AB9M	WO2T
RD3A	F5CQ	N6PSE	I5HOR	YL2MU
RU3A	F5PAC	N8OC	JA2ATE	YO9FNP
S54A	G4FTC	OE6VIE	JH0BQX	139
SP7AWG	IV3VBM	RT0F	JI1DCW	DF7EE
SV9AHZ	JH1QDB	SM3DTR	JR2LJO	DJ4XA
W7CT	N2WB	W5ADD	JR7WFC	DL5EBE
W7RH	N5XZ	144	K3PP	DL8OH
WA1Z	NE3F	CU3EQ	K4WZ	DS1JFY
WA2BCK	W5FIX*	DL5CW	K6EME	JA1TMG
150	W5FKX	DL5KUA	KK1W	K2RET
EA1AF	147	EI6IZ	KM3T	K3ANS
JA1SVP	AA8CH	GM3ITN	MM0SAJ	K6AM
JA2NQG	JA1XQC	HB9BYQ	N7QT	K8GI
JA9RRH	JN1BMX	HB9RYZ	NA4D	K8RF
JL1UXH	K8UT	HS0ZEE	NQ7R	KA8SYV
K0RS	KM1H	I5MXX	NY2NY	KU0A
K1OA	N1IBM	IT9GSF	OK1DO	LA8WG
K5TR	N1BM	IV3DXW	W2OO	OK1MP*
K5VWW	PC3T	IZ4GWE	W4WT	SM5CBM
K7LV	W1OP	JA3GN	W5LUA	SV8ZC
K8AJS	W2KKZ	JE1FQV	W5VQ	W0SD
KU4XO	ZS1C	K0VSH	WA5POK	W9XQ*
N3QE	146	KJ9C	141	WA8WV
N9CO	EU4A	LA9VFA	AC9S	138
OE8SPW	JA1HQQ	N1IX	DL5MHQ	DK8MCT
ON6AA	JA4DHN	N2WM	EW1BA	DK8YY
OZ3SK*	JA5XAE	N3KK	HB9FMT	EI9FBB
SQ5EBM	JH1GNU	SM4OLL	JA1PTJ	F6DDR
UA6YW	K5KV	SM5CLE	JH1HHC	IK8EPC
W2/CT1GIF	K5SM	W4GE	JH4JNG	JA3OOK
W6DAO	K7WP	W7ZI	K2RW	JF3LOP
WW2DX	LB5WB	W8RLS	SV3FUO	K1RO
149	N7BT	WC5M	W1AX*	KJ6P
DL7CX	NJ3K	WD5T	W2CG	NA5DX
I0JBL	OH1JP	YO3CD	W3BW	OZ8X
	RU0SN		W4JVN	

RW4CY	K4ZRJ	K6SIK	N5PHT*	128
UN7JID	K7FL	KS4YT	N6RK	AA4SC
V51B	K7XB	KU2A	ON4ON	DM2RM
W1GD	KX4TT	OE1KM	PY5EG	IK2SGB
W2YE	NZ9R	RA5BM	R0SR	JA1XCZ
W4YV	R3VA	UQ2PZ	R9MJ	JA2AHH
W7OM	R7LP	VE3WT	R9SA	JA2KSP
	RK2M	W0NFL	W7JY*	JA5FDJ
137	RN3RQ	W1OPD	W8DCH	JA9AA
EA1YO	SM3LGO	W2QO	W8KA	JE1LFX
GM3YOR	SM5CZK	W5AJ	ZS1A	JH4GJR
HB9IQB	SP3XR			K0FF
IZ2FOS	SV5DKL	132	130	K3XA
JA3APU	UB3A	AA4NC	DF9ZW	K4JAF
K2QMF	W1DIG	AD6W	E73M	K4SE
K8NS	W1EQ	G3UHU	EI2JD	K6LPO
RA3CO	W2GD	IK3VBB	G7VJR	KG7CW
RG7G	W4BUW	IT9RDG	HK0HEU	KM4NS
UU1JA	W4MBD	JA3DY*	IK3XJP	N5KM
W1ITU	W4RFZ	K6YUI	JA2FBC	N9RD
W5ODD	W6DR	K9ZM	JG1DUZ	OE3SGU
WB5JID	W6JTI	KO8SCA	JI4POR	OZ1IKY
WE4S		N5ZC	K2MYR	R9SG
	134	N6HY	K3NK	S53X
136	CT3HF	OZ2RH	K7LFY	S55DX
E72U	HA1RB	SM4BZH	K8BCK	SV3DCX
ER0FEO	IK4DCS	SM6BGG	K9GL	US8UW
IK8CNT	JA7LGE	SP6M	NA4EA	VQ9LA
IU0HDC	K1TO	VE3CRG	NO9E	W2WC
K0TV	K1ZN	W4AXL	OZ2ABI	W4IS
K4ZO	K3OX	W4RBO	R5QA	W6RKC
K7TM	K5VIP	W4WM	R9AB	WB0O
KR6C	N9MR*	W5SL	RU1AO	ZS6UT
OH1ZK	N9RS	W7AH	S51NM	
OK1DW	OE1TKW	W7CD	TA1CM	127
SM3GQP	ON4CAS	W9FR	VE3DO	AC9EM
SM5OJH	PY5HOT	WB3D	W2MPK	CT3KN
SP2BMX	RG6G	XE2S	W9ZT	HK1MW
SP6JIU	RX4HW			IK0LNN
UT3UZ	SM0BYD	131	129	JA1DDH
UW8SM	UA0ACG	DK7YY	HB9AZZ	JA1WLO
W2OIB	UA9OR	DL9FCY	JA1NWD	JA8RJE
WB7QXU	W4JKC	HS1NGR	JA8JO	JA9KRO
	YU1AM	IV3KFB	JK1EXO	JH3AIU
135		JA0AOO	K6XM	JN1RQV
5B4MF	133	JA2TBS	K8DV	JS2LHI
AG1A	9K2NO	JH4ADK	LB7ZG	K0RW
BA4RF	EU1U	JJ1TEA	N0YY	K3TRM
DJ9ZB	G4XEE	JM1FHL	N2BJ	N1AC
F6FXU	IK5DNF	K1UU	N3KS	N1GC
IZ7EVZ	IZ8DFO	K9DR	N3RR	OE8HIK
JA2KVD	JA6CBG	KC2LSD	PA3EWP	SK7AX
JA7LMZ	JA7GLB	KH2L	SM3BCS*	SP6A
JA8BNP	JA9AGN	KM3V	W0YVA	SP7ASZ
JA8JL	JR6FC	KM4H	W7QHE	W0CP
K1ZE	JR7FRW	N3MK	W8MET	W0RT
K4TT	K2CDJ	N4QWZ	W8MK	W3BG

W3FOX	WV4TN*	W4NF	W4UCK	DL9OBY
W3MF	YO2RR	W8NJR	W6XI	EW4M
W8LMG		XE1H	W9FI	G4DJJ
XE1KK	124		W9XX	HB9AAQ
126	AA7XT	122	W9YE	HB9BCI
DJ8WD	AB1OC	G3NDC	WA1PMA	I2TZK
F8BPN	J11DHY	IC8SQS	WY1G	I4MKN
G4IUF	KD2T	IU0LFQ	XE1VIC	IK0ZIO
JA7KY	KD4POJ	JA1MRM		IV3HYD
JH3CUL	KZ5DX	K1BZ	120	JA3AZD
JJ1DWT	NA2U	K1ESE	9A5F	JA4XGC
K2ZD	PA0TCA	K1YT	AA4DD	JE2JMV
K4JKB	UA0BA	K2MP	AA5JF	JH6CDI
K4XU	VA7CRZ	K7ZA	AL7TC	K5UZ
N8NA	VE1DUN	LA7WCA	DL2VWR	K7EG
OK3CQD	W2JU	LA8PT	FG5FR	K8KWT
PA5TT	W2RIJ	N3NR	HB9BLQ	N0KV
VE3CX	W3FM	N9AW	IZ0LKV	N4DJ
VE7BV	W6CYX	NN7X	IZ5NFD	N9UA
W8REW	WB8K	OZ3Y	JA4EPE	NT2A
W9ILY	WT4Q	RD4A	JR3UIC	NY7T
WB2REM	123	SP9WZS	JR6LLN	OH5NG
WD4LBR	AC4TO	UU4JMG	K2BA	OK1DT
YU1EXY	DL7JRD	VE6AX	K2HK	R6FFB
	F4GTB	VK4CAG	K3QIA	SV1ACK
125	G4WFQ	W2TB	K9SG	W4HZ
9A1AD	G5LP	WA3I	KA8ZPE	W5QP*
GW3TMP	HB0WR	WA7BNG	N4BAF	W8FIB
HK4SAN	IK2CHZ		N4LR	WC2K
IW0HEX	JA0CRG	121	N4TB	XE1RCS
JA4IYL	JA1SJV	AA6RR	N4UFP	
JA6VU	JA3MHA	AE3T	OE3EVA	118
JE1TSD	JA6WJL	DF1DB	OZ2A	5T5PA
JE6UWU	JR1EBE	DK1EI	PZ5RA	AB2E
JF2WXS	K2PK	DK6CQ	RL3BZ	DL5OCE
JH1AGU	K3XO	EI2GLB	SP3PLD	JA4FHE
JI4WAO	K4ZIN	HB9DHG	SP7ITB	J18DGO
K1HAP	K5GH	IT9AAI	SV1IW	JN7DOS
K3FRK	K5JC	JA2HYD	UR5IKN	K3WGR
K5KG	K6FW	K3NF	US0YA	K4CNW
K9GWH	K7UT	KD8RQE	US1CT	K5XM
KA6BIM	K9CS	KG9Z	VE3YF	K7PI
KI4WCQ	KV4AA	N0OK	W0RX	K8LN
LZ1XL	KV4T	N1JP	W2YR	K8WVA
N2KA	N2ED	N3ND	W3OA	KD6UO
N3EN	N4DWK	N4TL	W4PRO	KG8CW
N4JT	N6MZ	N6HC	W6RFL	LZ2HM
ND5S	N9JV	N8PW	W7RN	N2MM
NW6S	N9LQ	SV1AHX	WA2USA	N5BO
OE1AZS	N9LQ	SV1FKZ	WB6CJT	N6MB
RA0BA	NA2P	UQ1GWW	WP3R	PY2PA
UU7JM	NA9RB	UT4EO	ZL4AS	SV9COL
VE3UTT	S50B	UU2JQ		TA2RC
W5DAW	UA3DK	VA3AYA	119	TZ4AM
W9CG*	UR9QQ	W0QQ	AA3AZ	W1KSZ
W9DX	UT3QU	W2GG	AJ4A	W4DAO
	W1AO	W3RJW	DK3GG	W4NJ

W5JMW	K1RI*	CU3AK	N9ISN	RU4SU
W5VY	K6RO	DJ9RR	NA3F	SM3DMP
W9HBH	KT1V	DL6NB	NG0G	UA1ACG
WX3P	KV1J	DL6UAA	NI5F	UA1CEI
YO4AUL	N4IQ	EI8IU	NK5B	UT6UD
	NA9Q	F6CWA	R7NA	VE7XF
117	NZ3M	G3SDL	RA4UN	W1HEO
9K2OD	OH8LXT	HP3TA	RZ3AUL	W2CVW
9Y4VU	OZ1LCG	I5OYY	SM5ARL	W2SKI
AE0P	PA0JSE	JA1OVD	SP3EPG	W3UL
BH4IGO	RV3ID	JA4BXL	SV1JFV	W4VHF
DL1DWT	UA4PCM	JA4KDT	SV2AVP	W5VX
G3LAS*	W1ENE	JH6WMJ	UN7TW	W6KK
G3PLP	W1WEF	K1RV	VE3KI	W6TC
IT9DAA	W7GG	K2DC	W2GW	W8GEX
JA1HQT	W7OEV	K2HAT	W6BK	W8HMK
JA4FM	W8LRO	K3MD	W8FAX	W9SE
JA7GYP	WQ5L	K3OSX	W9VNE	WA8OLN
JA7IC		K5CD	WA2BOT	ZP6CW
JM3GXU	115	K5RJ	WA4DOU	
JR2UBS	C6AGU	KB8U	WB2HJV	111
K2BB	CU2CE	KZ4V	WB2UFF	AA4U
K6PJ	DL9GOA	N1QY	WS4C	AF4OX
K8OOK	G8BCG	N3MN	ZL1BYZ	CU3AN
K8QM	G8DX	NU8Z		DG7RO
K9FN	HA5UK	UA3FT	112	DK2WH
N2JJ	HK3PJ	W0VX	A92IO	DK6ED
N4IR	IZ0CKJ	W3MR	DJ1RL	DL1HRN
N8AA	IZ7JVR	W4TUN	DK5RL	EV1R
N8XI	JA2KNW	WA1FCN	DL5CL	F6ECI
NY4G	JA3NHL	WA4CEM	EA1JO	G4DBN
ON5UE	JA5WIZ	WA8MCD	EW1DO	HC1BI
OZ5HP	JG3LGD	WA9YYY	G3XGC	HL3GOB
SM7BIC	JH1RFM	WN9O	HB9CRV	IK8UHA
SP8HKT	K0GD	WT9U	HB9G	JA1AUD
UA6J	K0SD	XE1RBV	HI8R	JA1FGB
UR9IDX	K4CMS	XE3ARV	IK2ANI	JA1NCZ
W3ICM	K4GHS		IU8FRE	JE8TGI
W4ZRZ	K4GK	113	IZ4DIW	K0FLY
W6SL	K8YTO	9A1A	JA1SXR	K5WAF
W8ZR	LY4T	DJ5DT	JA7BXS	K7ORK
	N0IRM	DJ8ES	JF2WGN	K9AJ
116	N4OA	DL8CM	JR7TEQ	KM1R
AJ4F	N8KOL	DL8DYL	K0CA*	KP4AA
DL7URH	PA3AXU	DL9GTB	K0JPL	KZ0X
EA5BRE	RZ6MJ	G4AFJ	K1EDG	LA0CX
HA7PF	UA1ANA	JA0GCI	K1EO	N4WJ
HB9CEX	UA1CGS	JA4ITW	K1KO	N7BD
HB9EFK	UA6XT	JH1ORA	K4UAS	NA1DX
IK0EIE	UN6T	K0TPP	K8CC	UR6QA
IK2OHG	YL2CZ	K8SL	KB2FCV	VE6KC
IK7YZG		KA4RRU	KI4DLS	VE7CT
IT9TQH	114	KH6DX	KM1C	VE7UF
JA1WTI	AB4GE	KI0G	LA8HGA	W0VHF
JE2EHP	BA4DW	KT1J	N4ZY*	W1FO
JH3GCN	BA7IO	N6PE	N6MA	W4HOG
K1DC	CT3FN	N7KO	N9HF	W4OX

W5AQ	EA3GHZ	K2MK	JA5EY	JE6IGP
W7VS	EU4T	K4WY	JA6OXT	JG3HBO
W8MIL	F8EZE	K4YJ	JA8JTH	JG5RVQ
W9RB	G3SVD	K6UT	JH9DRL	JH2KKW
WA2MUA	IW0HQE	K8OM	K1TZQ	JH6PFY
WB4TDH	JA2CXF	KM8AM	K3SW	JJ0NCC
WB9EEE	JF2VAX	KN4JX	K3YBN	JR0EQQ
YL3DQ	K2CJ	KX2A	K4MS	K0DEW
YO6HOY	K2ONP	KZ1W	K8LBT	K1PX
110	K4RDU	LU2DKT	K8ZR	K4DSE
BA4MY	K4SAF	LZ3YY	KB9DAK	K5AM
DL1VDL	K5FZ	N2DPF	KE2R	K5ZQ
EA5BYP	K5KA	N4MEC	N2RR	K8JJC
F5BAR	K5KPE	N6RFM	N3DAP	KD9HL
G3LNS	K6MW	N9PGG	N4RF	KK8X
G8AJM	KA9UVY	N9SF	N6EE	KK9H
I2BBJ	KE1F	N9TF	N8AGU	KQ3F
IK5RUN	KL7RA*	NU4Y	NA5Q	N0JZ
IZ2EWR	N1BZ	PA0ZH	NE1F	N2CW
J68HZ	N2WLG	R5FY	OE1CP	N2SQW
JA7EPO	N7TY	R7LA	OH4UI	N3XM
JE2UFF	N8NN	RA1OHX	OK2BUZ	N8AID
JH1VHU	ND4V	RX6DX	OK3CQR	NA5Z
K2BLA	NN4RR	S57J	R0FA	NI5M
K3JRR	NU4I	SM6AOU	RN4AA	NS3L
K3PH	NX7U	UX7UN	RV6ARZ	OE5CSP
K4WW	PY5CC	UZ6LWZ	SP3BQD	OH2OT
K6MI	RW4UU	W2UB	SP6AXW	OK1AYU
K6VKO	RW9QA	W3NRJ	US5CB	OK2BVG
KB4MRX	RX3AGD	W4ZYT	VE3OI	S57AL
KC2STA	TG9NX	W7ACD	VK3NX	UR3CRO
N2CG	UB5ZAL	W8IW	W3KB	UT7UU
N3HBX	UT7KF	W9NIO*	W4MAY	UU5WW
N3IQ	VU2CPL	WA2ALY	W6TDX	V73AZ
N3JB	W5WP	WA8MOA	W7JET	VQ9SS
N4KE	WB5TUF	WB8BZK	W8VK	W1CWU
NC6K	WN0L	WC1M	W9CPV	W2EQ
NK7C	YV3AGT	WC6DX	WA0RVK	W2LE
NY4I	108	WD9EQU	WB8ART	W2NO
RD9M	AI2Q	WW1WW	WS1L	W4IR
SM5BHW	AL7R	ZS2DL	XE2YWH	W5JAY
SV1VS	DL6CNG	107	YL1XZ	W5KI
UA3O	ER1LW	4Z5LA	ZL3RJ	W8OP
US7MM	G3VAO	DK3FB	106	WA4MYO
W0UY	HB9BAT	DL1QQ	AA4FL	WA6TLA
W3XY	HB9FAN	DL2CHN	AE2U	WQ5W
W4DC	IK0PRG	DL5XU	DJ6OZ	YL2GN
W4NE	IZ0BTV	DO4DXA	DL2NOM	YU3EF
W5ZPA	JA2MOG	EA5AT	DL3JSW	105
WL7E	JJ2PIK	EA7QW	DL6JZ	DF2PI
XE1FAS	JK1MZT	FG8OJ	EA1CP	DF8AA
YU7AU	JR1BAS	G4AKY	EA3CCN	DJ3XD
ZL3NW	K0MD	G4RGK	HA8DZ	DJ6KH
109	K1EP	I5IHE	IW3GJF	DL4ZAB
DF1KG	K1XM	IT9XTP	JA1VLK	DL6XK
	K2KQ	JA4EVN	JA2MNB	DO1CTL

ES1GO	CX3CE	UT7EC	K9XJ	FM5WD
G3YUV	DK3BK	UX4UM	KE1IU	HB9AHL
HA8FW	DL4FAP	UY0MM	KJ4R	I8LWL
JA1BWA	DL7UPN	VE3VHB	KJ7WY	IK4AUJ
JA1TAA	E73D	W0YBS	KM9E	IT9SFT
JA6VA	EA8ZS	W1QA	KQ5M	JA0HXV
JA7BME	EI9E	W3DRY	LX1DA	JA8OW
JA8RRF	F6AJA	W3TMZ	N0RU	K0YN
JA9APM	F8GB	W5BK	N1HOQ	K1PTF
JF1RYU	G3BRD	W5CWQ	N9BBQ	K2LP
JO4CFV	HB9CIP	W5GJ	NU1T	K2TK
K1DJ	HK3O	W5ZO	OH3GD	K3KG
K2XF	IK0DWN	W6PH	OK1DQT	K4AQQ
K5AV	IZ4MJP	W7DR	OK2BQU	K4KAY
K6DJ	JA1JAT	WA0I	OK3BRK	K4LM*
K7OX	JA1SDV	WA9ETW	OZ7JZ	K5ZO
K7PO	JA2FGL	WW5G	R9GM	K7BHM
K9RO	JF1EGO	YC0LOW	RA0FA	K7UA
KI5T	JF6WTY	YO2CMI	RA4HT	K8BHZ
KT2E	JK1BSM	YO5ODE	RK3QY	K8OQL*
LZ1JZ	JO1WXO		RU3OW	KJ6NZ
N4JI	K0WK	103	SM3CBR	KN4KL
N4NW	K1BG	AA2VG	SM6EHY	KW4BY
N4PL	K3FM	AG1I	SM7BHH	KY6R
N4SC	K4KEW	AI3Q	UA3PFN	LA3ANA
N4VN	K4MF	DJ1MM	US2WU	LA6UL
N6NU	K4VIG	DJ3GZ	UT2AB	N5RZ
N7DR	K5HK	DJ7PI	VA2ZO	OH2EA
ND3L	K6UM	DL2HX	VA3IC	OK1DTN
ON7PQ	K7TJR	DL8YRM	VE3EDY	OK1JDX
OZ4AAL	K9EA	DM5TI	VE3MFA	OK3CSQ
PF7M	KA2BZS	DS3HWS	VE3VV	PA7TWO
PJ2/K8ND	KH6KG/W5	EA7SG	W0QC	PV8ABC
PY2DS	KI0KB	EU6MM	W0UVC	PY2DO
R6YY	KW0A	EW3LB	W1CTN	R2AB
RA6AF	LZ2XF	G3BDQ	W4AVY	R3IS
RD4WM	N3ER	G3OIL	W4MZ	RU3UN
SP5JXK	N3TR	G4AAW	W4TMR*	S59DJK
UA6LCN	N4GU	G4PUQ	W5THT	SM6WET
UR1RWX	N4TTE	G4VGO	W5VU	SP5MXZ
UR2RGN	N6PF	I0OSI	W6SZN	T77V
VE1PZ	N6WM	IZ0BVU	YO7APA	UA1AIR
VR2MY	N8MZ	JA2GQO		UA1CKC
VY2ZM	N9DR	JA2OLJ	102	UA6HOF
W1LE	NJ9C	JA3FHL	A6/RV6LNA	UA9MR
W1LY	NN3Q	JA8EJO	CT4BD	UA9UCO
W1MRH	PA0GMM	JE1SYN	DK3QM	UW7CN
W4OWY	RA1QX	JH1DGQ	DL3DXX	VE2FYR
W6FF	RU3UR	JM2RUV	DL3NCR	W0JMP
YU1NR	RZ6DX	K0EOO	DL4CW	W1AW
	RZ6LB	K2TER	DL4KUG	W1PV
104	SM5CCE	K2UVV	DL5RDI	W2LW
9M2AX	SM7CQY	K4LQ	EA8AKN	W2TX
AD1C	SO5AS	K5JUC	EI4DQ	W3EKT
AG4Q	UA9FGJ	K7BTW	EI6GF	W4ALF
AH0U	US5CAO	K8CCV	ES5RW	W4KK
CP8HD	UT4EK	K9MUG	F6BWO	W5RF

W5TO	KE1VT	W9ZCL	K1NZ	OT1A
W7IUW	KE4S	WA3EKL	K2CBI	OZ1ZD
WA0IDK	KF7NN	WA3PTF	K2CYE	PA0INA
WA1S	KN6J	WB3HLH	K3TZV	PA7RA
WD8DSB	KQ1F	WC4H	K4FT	PY7DJ
WS4Y	KS4XQ	WK9U	K4KGG	R3PJN
YO2IS	LA2GV	WR2G	K4KSY	R9JX
	LZ1XZ	WV9L	K4QS	RA3SD
101	N0STL	YO2OXD	K4UQC	RA4LW
AA3LX	N2AJ	YO6BHN	K7VIC	RA6XB
AA4NU	N5AQ	YV4DYJ	K8BZ	RC2A
AC2AC	N8AG	ZS1J	K8CR	RN1A
AC5O	N9JCS		K8CS	RT5A
CT1JGA	NX2X	100	K8LE	RU3GF
D44BC	NZ9Z*	9M6YBG	K9NZ	S53MJ
DH2FW	OA4TT	A41ZZ	KB0EL	S59SV
DK9WI	OE3WQB	AA4AK	KB1HY	SM0CXU
DL1KS	OH3TY	AA4UC	KC0V	SM5AHK*
DL3ANK	OK1PGF	AB4VV	KC4D	SV1FJP
DL5JS	OK2BOB	AC4VM	KC5LT	SV1VJ
DM3ML	OK3EY	AI2S	KD8BZY	SV2DSJ
EA1WX	OK4MM	DH0GSU	KP4N	TI5CDA
EU1TT	ON4LG	DJ6OI	LA8W	UA3AKI
G3ZFC	PA4WM	DK8MM	LU5OM	UA4PAY
G4FJK	RA3AH	DL1MEV	LU5YF	UA6CEY
GM3WTA	RA4P	DL1TPY	MM0SJH	UN6P
HB9NL	RA4SD	DL1TRK	N0AH	UR4CW
IK5ZUK	RB7GG	DU7ET	N0ATQ	UR4LRG
IV3GOW	RK9F	EA2AAZ	N1GFV	UR8IDX
IV3KCB	RY6M	EA3ALD	N1KI	VE1RGB
JA1VVX	SM2DMU	EA8AXT	N1MD	VE3OAT
JA2VMU	SM7NDX	EC5A	N2CJ	VE7JKZ
JA6TMU	SP7JLH	EI3ISB	N2SG	VP2VA
JA7SFD	SP9DH*	ES5NC	N2XQM	VR2PX
JE1PHH	SV1PL	FM5GU	N3AF	W0GYH
JF1RPZ	UA0FDX	G0VXE	N4CRI	W0MU
JH3HGH	UG6GAW	G4CGG	N4RWG	W1AN
JH3PRR	UR5WIF	GM3ZSP	N4ZR	W1YRC
JH7BKN	UR7CQ	I2VGW	N7DED	W2CCC
JI3KDH	UT1CC	IK0HFO	N7TK	W3BBO
K0LW	UT4IS	IK4MSV	N8HRZ	W4HHN
K1YR	UT7HA	IS0/YO3RA	N8IL	W4OEP
K2BX	VE2OJ	IT9CVO	N8NB	W4OV
K3SEW	VE3ARF	IW0BYL	N8OQ	W6WA
K4NNX	VE3XB	JA1BRK	N9ADG	W7BA
K5DNL	VK2GR	JA1CPU	NA6O	W7DT
K5WE	W1FC	JA1ILA	NB3R	W8CNL
K6AAW	W1GF	JA4FSH	NG7A	W8FN
K6XJ	W2SF	JA5DQH	NJ3I	W8GDQ
K7AR	W3WH	JA9CGW	NN4SS	WB4SON
K7IA	W4BUE	JF3DRI	OE5JDL	WB8TGY
K8BN	W4PM	JH7XPW	OK1DXD	WK4Y*
K8YYY	W7AV	JS6TWW	OK2PAZ	WU2M
K9JU	W7CB	K0LB	ON4ANN	YB1TJ
K9PG	W7QC*	K0SRL	ON7EH	YL2SM
KC4PX	W8GB	K0XM	ON7GB	YO9FLD
KD3UY	W9MAF	K1NA	ON9CC	ZP9MCE