

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 03 Sep 2025, 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	328 UA4CC	317 W3LPL	RA7A RZ3AM SP2FAX	UA6A	299 K4TEA N1BUG SV1FJA UX1UA W7UT
341 EA8AK	325 K9UWA UA2FF	316 K5RK OH3SR W2VO	310 I4AVG RA3CQ SM5BFJ SM6CVX W5IZ	304 DJ0MDR GM0GAV SM3GSK	
340 K1ZM	324 EY8MM K2TQC K4PI OH2BO S50A W1NG	315 IK4WMA N1DG PE5T S50U W1JR	309 I4EWH	303 F5LGE G0JHC GM3YTS JA1BK JA4LKB K1UO RU3DX YU1FW	298 9A2AJ DF2UU IK2DFZ JA2JPA OE6IMD OZ3PZ SM5CEU
339 W4DR W4ZV		314 IK4GME NX4D OG2M OK3GU OZ1LO RW2A UA4CR	308 IK4MGP IV3PRK K4SV K8GG UT3UA	302 DL4MCF SV8JE	297 DK5PR N4CC OM2XW RA3DX W0FLS
335 OH2BU	323 SP5EWY		307 DJ7MI N4RJ OH5VT VE3EJ	301 DL9KR F6BKI LZ2JE N1RJ N3XX SP3EPK	296 DF3GY F5NTV G4PWA ON5NT RY9C SV8CS W1JZ
334 N4WW	322 UX0UN W3UR	313 GM3POI OE3GCU OZ7YY	306 EA6SX K4CIA SM0AJU WT3Q		
333 R7LV	321 WB9Z	312 OH1MA S54E		300 G3KMA I2ZFD JA4DND JA4LXY OE1WEU PA3FQA SM3EVR VA3EF	
332 UR0MC	320 K8MFO SM4HCM W8UVZ	311 DF3CB DJ6RX DJ9KG G3PQA KJ9I	305 CT1EEB JA7NI K4ZW N4IS NN4T		295 K3UA
331 K5UR LZ2DF UT7QF	319 N0XA SM4CAN UT5UGR				294 DL1AMQ JH2FXK LA5HE
330 AA1K HA0DU OH1XX R4GM	318 4X4DK W9ZR				
329 K3UL UA4HBW					

RJ3AA WD5COV	287 DL1RWN G3XTT N2QT RK4FD VA3DX W4PK	JA2PJC K1CP S59Z W4TO	SP6AEG UW2ZM	W1MK	260 EA5BM K1LT K4DY UT9FJ
293 JH4UYB N0TB S58T		280 EA6NB SP6HEQ YO3APJ	274 CT1EKY G3TXF JA8ISU K1ZZ KF2O W6UB	267 LU8DPM RZ3DX	
292 G4BWP IZ0AEG JR2KDN OZ1BTE SM5AQD SP3IBS SV1AOZ W3YX W8TOP	286 DJ2YA IK1GPG K3SX N3SL PA0WRS UA3AB UT7UW W8AV	279 IK4DRY JR7VHZ N2TK N5DG SM6CNN SP5CJQ UA6MF	273 IK8HJC K2CL K5BG MD0CCE RA3DA SM6CCO UA3DPM	266 G4OBK NR1R R3LA W8TE W8XD	259 DF4PL F6GCP G3ZSS I1FQH R9FM
291 9A7V I5NPH KD9SV R7NW SM3NRY SM6CMU SP3E UA3LAR UT7UJ W5ZN	285 G4CCZ UR5WA	278 DK0EE F6BEE IK6DLK JA3FYC K5DU KG4W RU3FM	272 9A2EU DL1DUL DL2OE OH1LEU PA7MM SP6CIK	265 AA4V* AA6YQ AA7A EI7BA K4XP RW0LT SP5DIR W1GL YO5BRZ	258 KW9A N2NL RN3CT VE3QAA
290 UA3AKO	284 K5XI SP3DV UX1AA	277 AA4MM DJ9VA F6AOJ HB9AMO IK5BAF ON7TK SP9DWT	271 EU7A G4GED JA5AUC OZ1CTK SM5KNV	264 IK2YCW K7ZV	257 K1GUN K9NW N8TR W9YSX
289 JA3ONB K0KX K4WM N8DX RX4HZ US4EX	283 DL7VEE JA5EXW JH4IFF K4SO N7NR NA0Y NO3M R3OK SM6DHF	276 DK5WL G3LZQ N8RR N9IW OH3BU OK1AWZ VE2TZT	270 AA1V LA3MHA OE5KE SV8BHN	263 IZ1ANU K9OW KX4R LA5IIA N3NT W2SM W3AP	256 9A5CY JA5BZL JH1GZE K1QX K5VRX K8FL SV8GFW W1TSP W3DF
288 CT1APE HB9BGV PA3GCV SL0ZG SP7VC UA4LY US5WE W0JX WK3N	282 DL1YD I0WDX K8KS K9CT N2LT NJ6P SM6CTQ UY5ZZ W0BV W2YC	275 9A1CCY F5NBU I2AOX IK4CIE K2UO K4IQJ	269 K6ND KD5M RV3LO SP9JZU W1ZC	262 G0DQS IK5HHA KR9U N5KD W1YY	255 IV3ODE K4QL KY7M N2MF R5AJ UX0FF VK4MA W3KX W5OZI
	281 DF2PY HB9BIN		268 DL5DSM G3WPH K8PT RA3XDX	261 9A4T DL9YX K2EK K5KC N6SS NO8D SP1S	254 I1EIS N0AT OM3DX WA4FFW

253 5B4AGN AA1QD IV3YYK K5ESW S58Q UA1OMS W0YG	NO2R R7IA WB3AVN YO9HP	N5TY* N7RT OE2LCM OK1DWJ SP5GRM UA3TT VE1YX VE3NH	236 AB4I K1JO K5EK K9NR K9ZO KC7V OK2ZI OZ4O SP8AJK	231 4X4NJ HA9RE IK0YUT N6AR N7NG ON4ACG W9IXX	JR6EZE K9FD* N6JV ON4GG US0SY UT5JAJ VE6WZ W0VTT
252 EA1DR JA2VPO JF2MBF JG3QZN JQ3DUE JR3IIR ON4AOI PA4VHF R5DT S52F W3UM	246 DJ2TI F2JD JF8QNF N6TR TF4M UR5EDX W2TQC W5XZ	240 EA6ET G8VR JA5MHD JR3GWZ K0JUH K0KT K1FZ K1ZG K9OT KA9CFD LA2XPA UR5MID VO1NA	235 CX6VM EA6VQ JA0FSB JH4ADV K3SWZ N6DX OK1CF R7DX VE3XN WA7NB WA7NS	230 DF6PB JA1CMD KD0Q N8JV SM3NXS W4GF W4VQ	225 A45XR JH7PFD K1MM K5AB K9FD/KH6* N4CH RA3QK RV1CC RW3XZ SP3CGK SP8NR VA5DX W7KW
251 DJ7RD DL9RT JH0BBE N4II PY2RO W5UN W7LR	245 DL4CF JA1GV JA7QVI K2FF N9US RL9F RY7G W9XY	239 AJ6T K1DG K1HTV KH6AT LY3UM NV9L RN3QN RU3QR SV1ELF SV1RK UW5ZM	234 IZ8FFA K1AR K4UTE KF0QR PY1BVY S51DI	229 CT1FJK DJ4AX JA8FKO J11BEX OE5NNN RO7T	224 MM0EAX N0AV N8BM* SP5INQ SP7GAQ VK6VZ W2RQ
250 HB9RG NQ1K OZ8BZ	244 AG9S DK6WL F6BLP IK0XBX JA1HGY ON4IQ	238 DL8WN IK0XEZ IZ1LBG JA0DAI RA0FF VO1HP W3LL	233 DJ5FI K0CS K2UU KA7T SK3PY UA4HAU VA2WA W1TC W7AO	228 AF9H AI0O E72A K4HB N2WK OH2BEN VE3DZ WB6RSE	223 AB0X DJ8NK HA7TM JH2TPI RT6T SV2JAO UR5FEO ZS4TX
249 AB3CV AI9L K9RX SP5DRH	243 DK2JX DK3DG IK0MHR ON4ATW S57A SV8CKM W9RPM WX4G	237 AC4G DL7MAE IW1ARB NI0G OM4EX	232 EA1N FK8CP JA8EAT JG1ULJ JH1HGC K2AZ K4XL NI6T UA3AP	227 DL7HU ES1RA I3BUI IK0HBN IK6FWJ JA1UQP JA2NDQ JA9CHI K1FK K3NW W9BF	222 IV3JVJ K3SV K6EID K8FH K8ZTT N5AW N5JR N8PR N9BX
248 K3WW K5RX SM3VAC T77C W9NGA	242 EA4KD KG7H			226 DL5WW JA6BZI JF2KOZ	
247 K0IEA K6XT NN4X	241 JA0CRI JA1SYY JA3EMU K5ZK N4XM				

SM0CCM	216 F6DAY JA6LCJ JA9PPC K5EJ N4PQX N5UL OE1ZL RZ0AF W0GJ W6XA YO7LCB YU3AA YV1DIG	212 AA9A DL9GFB K4MQG K8ZH KE9I KG6I N1ZZ N4MM NX0I OZ1AXG SM5CZQ W1ECT WB9CIF	RU3ZX UN5J UY1HY W6PJ W9EWZ	UA0SR US6EX W2HUV WD8PKF WF4U WI8A	200 G0OIL JA1GTF JH2RMU K1GE K1GG LA5YJ RW4NN RW7M UY0ZG W0DD W1NT W3GG
221 JA2WYN JJ3PRT K4MWB K8SIX N6VR W1ZK W6JRY WS6X			207 K1DT K1LPS K3JT K8EUR N9AU* PY2BW W0LS	203 AA5AM JA2XYO JE1PNX K4XO K9MMS KK2I NK1K OH1TV PA0A R6AF W7DO W8GC	
220 AG8B DK2NG HB9LCW HL5IVL JF3KON JR4OZR KA1R N1LN VE3EXY	215 IZ8FWN JH0INP K3JGJ N7JW RA1QD W0UO W2LK W6YI	211 EA1RT IK4DRR JA4DEN K3WA RU3SD WA5VGI	206 IK0IOL JA3PIS K2VV K3LR K5AQ K5MC K8AC KG9N N8DJX PY2XB SM6BZV US0KW VE3BW	202 DL1MGB DL2KQ DL9DRA JA2JNA JA3CSZ JA5AQC JH3VNC JI2KXK K2NV K9YY LY1G N5ZM N7KA OK1DOT R9TO RA3S UA9FAR WA2HZO ZL3IX	199 DK2LO G0BNR HB9DDO JA2DPC K6GXO KB8VAO N4DW W1TO YO2DFA
219 IK3VUU JA2FBY JA2FJP KV7K LA7GIA LB8DC OE8RT RA3WDK SP4K UT7UV WA2UUK	214 DL7BA HL3IUA IZ8VYU JA2JW K4NA LA4GHA LA7JO OK1DX RN7G W4NL	210 I8SAT JA7MSQ JJ2LPV UW7LL W7JW WP4U	205 F6EXV I4KDJ JA3AAW KA9FOX LA7HJA W8UN WB8ZRL		198 DL1ROJ G3UJE G4BUE I5KKW IT9JNR JA4PXC RX3APM W8HB
218 AD5A DJ4PI DK0PM IK1YDB JA8CDT K0EU K5UO UT4MF W5PJR	213 DF2IS EI3IO HA1RW JA2IVK JF6DSZ K1ST NA2M* RU4SO W0LYI W1FJ W2WG W3YY WS9V	209 DL5CF DL9MRF EU1KY HB9CXZ HB9DDZ JA0UUA N9LB VE1DX VE3LYC W0ZR W7KNT W9OO	204 DJ5AV EA5KA F4BKV IK7NXM JA9NFO K4JJW K9US KK4SI LX2A N4NX N4QS N7FU SM2OAN		197 G3SNN IK0FVC JE1BMJ JH2UVL K8NVR OE4PWW OE5FIN ON4CD RZ6FA UA0SC UT5EL W0FS XE2X
217 DM5EE JH1IFS K5PC ON6YH UA3AGW		208 G3NSM I4LCK JA9FPI JF4VZT K2FU K5RT N5ORT		201 AG4W CU2DX DL1EJA JF1PUW JO7WXN K3HP W0MHK W2IRT W5TCX	196 4Z4DX AA4HP

IK4PLW	WA2VYA	JA1KQX	K5KLA	179	SM5FUG
JA3RAR		KB0EO	KB4ET	IT9ELD	W4BP
K8PO	192	KB1EFS	S57AC	IW0SAF	W4GD
KP2A	9A2NA	KE9ET	US8UA	JA9NLE	YO7NE
ND0N	JA7JWF	KL0S	UT2UB	JR7BDQ	
RA9CMO	JH1RFR	N8LJ	W2YJ	K0TT	175
RZ4FO	K3FN	RM0F		K8WK	JA1CHN
W2FCR	K4FJ	SM0NJO	183	N2PK	JH2QMT
W4UM	K5XX	W1YM	IT9INO	OK1MG	JS3CTQ
	K7GM	W6SR	K4CN	S57UN	K4DLI
195	K9EU	W8JV	K8RRT	SM4DDE	K5GKC
EA3JL	KF7PG	WA3C	K8VC	SV3FUP	LA5LJA
EA5RM	N4DB	WA6YEE	N9MB	W8KEN	N7IR
G3ZEM	OH2IS		NN2L		N7XR
JA0EOK	W3UA	187	ON6SAS	178	PE1L
JA1EOD	W3YQ	AJ1H	W2FP	4Z5CX	SP1MGM
JH1QAX	W8LGJ	K0SR	W8NW	EA3CJ	TF3SG
JN7FAH		K6SRZ		JA4MRL	VE3FF
K3PA	191	KN5O	182	K2UR	W8HC
K7SO	CT3MD	LA0FA	DJ9ON	NE0U	WX0V
K9RT	JA1ANR	N2NS	DK3UA	SM7DLK	
KF8UN	K0JGH	OK1CZ	HK3W	SV1JG	174
N1SV	K8FC	W7AWA	JA1SHE	W6NWS	4Z5MU
W5ZG	K9LA		JA3ENN	W7MEM	JA0GJJ
W9OP	NE1B	186	N3OC	ZS1LS	JA1PPW
	RK2FWA	9A8A	UR3EO		JA2XW
194		IK2QPR		177	JA7MOL
K4KDX	190	JA8DNV	181	9H1SP	JF7DZA
K9JF	IZ8XQC	K0BJ	DK3WW	AE5E	JK1OPL
KB9LIE	JA1DUH	K7LAY	JA2BDR	CT1GFK	JR6PGB
LA7AFA	JA1MCU	YL2TW	JA9TWN	IK4ADE	K1KI
SM7GIB	K0BBC		JN4MMO	K3WC	K2KA
W2LO	K2TE	185	K2EP	K4RG	K3AJ
W4FC	K9KU	AB6QM	LZ2ZG	K9NU	K4TR
WD8JJA	KM1D	CT1EAV	VE3OSZ	SM6DHU	K4WS
WN6W	N4XU	EA6BF	W9AJ	W2OR	N1EN
	N5GH	G3KWK		W5LT	OE1WHC
193	SP2LNW	IK3SWB	180	W7FI	RN7F
CT1IUA	VE7VV	JA2LCP	CT1FPQ	WB7B	UA3LNM
DF2GH	WE9R	K5ZD	DM2DXA		W8UV
DK1FW		LA3WAA	DM3VL	176	W8VVG
DL5ZB	189	N4TJ	EA8JF	EU1AB	WT8C
DL6ZXG	9A2F	N5UR	JE2URF	G0BLB	
EA3WD	AA1ON	OE2BZL	K6SSS	I6FLD	173
HA5BSW	EA8PP	SP3FAR	K7BG	JA0DET	5B4ALJ
JA1XEC	FM5CD	SV1DPI	LA9AJA	JA5IU	I1JQJ
K4ODL	JA0VSH	UA9CBO	N1RR	JA6BJV	JG0CQK
N5LZ	SP7HOV		N4AH	JA8KSF	K1NTR
N9EN	UA7T	184	ON5FP	JL1SAM	K4XR
PA0LOU		HA5WA	W1RM	K8MN	K9YC
RN1ON	188	JA2ZL	W7BEM	N5OK	KA1J
UA0CA	AB4IQ	JF1NZW	W8TN	OK1DWC	N5FG
W9MU	CT1FMX	K4HGX		RL3FA	PY5EW

172 EA7TV G3NKC IZ5MOQ JA3FGJ JG3IWL K0DEQ K1BD K6FG KJ0M VE6WQ W3JX W4FQT WC4X	N4XX N7US UT8MM UY5AA W6RW W7YAQ WB3JFS	JA1FNA JA9LJS K1KA K3KY K4JLD K4PB K4WA K4ZYU RM3DA W0DJC W1RR W8ILC WA8TXT	OK2QA UR4CWQ VE3CFK W7AL	W1BR W5XC W9RN WX0B	WS7L YV2IF
171 AA9D DL6KR G0EHO HA9PP JA6HUG JR1TNE K1NU KI5BLU N0RN N4OGW N7RO N9RC RA3DNC SV1LK UN9L WA9PIE	168 G3MXJ IK2EGL JE7JDL JF2UPM K4XD K5QY K8RYU KR4F N4QQ N8BJQ PA7F SP5GH SV2AEL W4SVO W6VX W8OI WA0MHJ WA5YNB	165 DL7UCX F6HDH I2ZGC IK0AGU JE7RJS JH7CFX K5JZ KK4CB N4HB N9FN NY0V RC9F SM4CTT SP6EQZ W5BN	162 4O3A 9A4W F3AT HB9TKS IZ4DPV JA6GIJ JR5JAQ LB6KC N8MR RW3RN W0HT W0TT W1LW W8WEJ	159 JA4FKX JH6QFJ K4RO OK2ZV UN7JX W3HKK W6BJH W7SX WD5BJT	156 AB9V DL4MM IZ8IEV JE3GRQ JO7HAM K0QC K8YSE KS1J N3RC N3UA N7WS OE5RLM UA3SAQ VA3LX W1YIF W4TV
170 DJ6TK JA6JPS JE3ENP JF1WPB JM1GYQ K6ZZ N4PY SP3GTS SV3KH W3IP W9EVI WA3AFS	167 DK5AD EC3A EI6FR JA6VQA K6KO K8NK K9MBQ N0IJ N3BNA OH2BLD PA3C RA1AOB RN9N S51EC W1YW WA4LOX WB0TEV WC5N	164 GU4YOX HA7UW HB9BZA JA1RTX JA7ZP JH2SON K1NJ N5WA RA3ZH RN3OG W4DKS W4NS* WW3S	161 DK2GZ DL6RAI HB9DHK JA1DOF JH4ALY K1USA K5GO K8ND LB2TB N4GN OH6RA VK3HJ YU2TW	158 DJ4PT DL1FKA G4GIR IT9DSZ JA9APS JH1TWT JI1FXS JI1NJC JR1GJP K5TT K9GA OZ1HX RU6M SM4EMO W0SZ W1OX W2XL W3GQ W4QN	155 CT1FCX DL1RK DL4SZB HB0CC K2LS NE0DX NW7E SM6VR W2XI WE1P ZS6EZ
169 IK0PEA JA1ADT JE2LPC JR1IZM K1LI	166 4Z1UF DJ4SO HB9FMN IV3TDM	163 9A2JK DJ9HX JE2LUN JH4CPC K7NN K8TL	160 AD5Q DK1WB DL1DA IK0FUX IW2FND JA2EPW JE2DZC JE2OVG JF2XGF JR7MAZ K3MSB K3RA NR4M RU6L UA0FZ UX5UO	157 AA4H AC6DD DL6MRS EA5BY G3TQZ JA1GHH JH7IAJ LY5A N5MOA NE9Z RU4UR SM3PHM SV8ZS W2TA W5GZ	154 3V8SF GM3PPE HB9BUN JA8NFV JL1RUC JR3OEH K0KVR KR2Q NX8Y W1NA W5DNT YS1RR
					153 AA6AA AJ9C DF2RG DL3ZA

G3TJW	S54A	G4FTC	N4GG	142	KF8DX
HL2CFY	SP7AWG	JH1QDB	NA5C	I5HOR	N4XP
IZ3ENH	SV9AHZ	K5VWW	RT0F	IT9BLB	OH6NIO
JF1IRW	W7CT	LA6OP	SM3DTR	JA2ATE	ON7DR
JR9OPJ	W7RH	N2WB		JH0BQX	UN1L
K7SP	WA1Z	N5XZ	144	JR7WFC	VE6SV
K8VFX	WA2BCK	NE3F	CU3EQ	K3PP	W0SEI
LZ1PM	WP4G	W5FKX	DL5CW	K4WZ	W4NU
N4TV		W9JJB	DL5KUA	K6EME	W7IV
N5TW	150		E70T	KK1W	W8LWU
N8II	EA1AF	147	EI6IZ	LA9VFA	WO2T
R9OK	IV3RAV	EA3GP	GM3ITN	MM0SAJ	YL2MU
SM6CLU	JA1SVP	IV3VBM	HB9BYQ	N2ZN	YO9FNP
SP5CCC	JA2NQG	JA1XQC	I5MXX	N7QT	
UT5UY	K0RS	K7HP	IT9GSF	NA4D	139
WB8BPU	K5TR	K8UT	IV3DXW	NQ7R	DF7EE
	K7LV	KM1H	IZ4GWE	NY2NY	DJ4XA
152	K8AJS	N1IBM	JA3GN	OK1DO	DL5EBE
EW2A	KU4XO	PC3T	JE1FQV	W2OO	DL8OH
JT1CO	N3QE	W1OP	K0VSH	W5LUA	DS1JFY
K9MK	N9CO	W2KKZ	KJ9C	W5VQ	JA1TMG
KQ4AV	OE8SPW		LA9GX	WA5POK	K3ANS
KS3F	SQ5EBM	146	N1IX	WB8CQV	K6AM
N9OY	SV1CNS	EU4A	N3KK		K8GI
S55ZZ	UA6YW	JA1HQQ	SM4OLL	141	K8RF
UA6IGI	W2/CT1GIF	JA4DHN	SM5CLE	AC9S	KA8SYV
UN7LZ	W6DAO	JA5XAE	W4GE	DL5MHQ	KU0A
UT5AB	WW2DX	JH1GNU	W5ADD	EW1BA	LA8WG
VE6LB		K1CA	W7ZI	HB9FMT	OK1MP*
W1SKU	149	K5KV	W8RLS	JA1PTJ	SM5CBM
W1VT	DL7CX	K5SM	WC5M	JA9RRH	SV8ZC
W6RLL	HB9HFN	K6NR	WD5T	JH1HHC	W0SD
W7AJ	IK4FNF	K7WP	YO3CD	J11DCW	WA8WV
WB3CQM	JL1ARF	N7BT		JL1UXH	
	K3TN	RU0SN	143	JR2LJO	138
151	K4YYL	W1IZL	DL1DUO	K2RW	DK8MCT
AA7G	K8ME	W1ZT	DL6EN	N8OC	DK8YY
CU2AP	K8ROX		HS0ZEE	NJ3K	EI9FBB
DK2OY	R8TX	145	K7CMZ	OE6VIE	F6DDR
EI9JF	SM6CUK	AF4HX	K7CW	SV3FUO	HB9RYZ
F3SG	UW7UA	HI3T	N2RJ	W2CG	IK8EPC
HB9SLO	W0GG	I0JBL	N2WM	W3BW	JA3OOK
JA2VQF	W7HPW	IZ0RVI	N5UW	W4JVN	JF3LOP
JA6BEE	WB8B	JE6TSP	N6PAT	W4VIC	JH7RXU
JH1NYM	WD5K	JJ3HGJ	N6PSE	W4WT	K1RO
JR1XIS	WS5W	JK1AJX	NN4R	W8GNM	K2RET
K2AX	YO3DDZ	JN1BMX	OH1JP	W8HW	KJ6P
K2FW		K1OA	W0IZ	ZS1C	LB5WB
KD0PO	148	K3VAT	W6QUV		ON6AA
N5JB	DK2CC	K4OY	WB8ZRV	140	OZ8X
OK1ATP	F5CQ	K8BL	WD9DZV	9A1CAL	RW4CY
RD3A	F5LVL	KF6HI		K5WK	UN7JID
RU3A	F5PAC	N1CGP		K6KLY	V51B

W1GD	K7XB	VE3WT	ON4ON	128	W0RT
W2YE	NZ9R	W0NFL	R0SR	AA4SC	W1OPD
W4YV	R7LP	W2QO	R9MJ	DM2RM	W3BG
W7OM	RN3RQ	W5AJ	R9SA	IT9ZZO	W3FOX
137	SM3LGO	132	W8DCH	JA2AHH	W3MF
EA1YO	SM5CZK	AA4NC	ZS1A	JA2KSP	XE1KK
GM3YOR	SP3XR	AB9M	130	JA9AA	126
HB9CQK	SV5DKL	AD6W	DF9ZW	JE1LFX	DJ8WD
IZ2FOS	W1DIG	IK3VBB	E73M	JH4GJR	DL9FCY
JA3APU	W1EQ	IT9RDG	EI2JD	K0FF	F8BPN
JA4OK	W2GD	JA2KVD	G7VJR	K3XA	G4IUF
JH4JNG	W4BUW	JA6CBG	HK0HEU	K4JAF	IZ7EVZ
K2QMF	W4MBD	K6YUI	IK3XJP	K4SE	JA1XCZ
K8NS	W4RFZ	K9ZM	JA2FBC	K6LPO	JA7KY
RA3CO	W6JTI	N6HY	JG1DUZ	KG7CW	JH3CUL
RG7G	WE4S	OZ2RH	J14POR	KM4NS	JJ1DWT
UU1JA	134	SM4BZH	K2MYR	N5KM	JN1RQV
W1ITU	CT3HF	SM6BGG	K3NK	OH1ZK	K2ZD
W5ODD	IK4DCS	SP6M	K6SIK	OZ1IKY	K4JKB
WB5JID	JA7LGE	VE3CRG	K7LFY	R9SG	K4XU
136	K1TO	W4AXL	K8BCK	S53X	N8NA
E72U	K1ZN	W4RBO	K9GL	S55DX	OE3SGU
ER0FEO	K3OX	W4WM	KO8SCA	SM3GQP	OK3CQD
HB9IQB	KX4TT	W5SL	NA4EA	SV3DCX	PA5TT
IK8CNT	N9MR*	W6DR	NO9E	US8UW	VE3CX
JH4HMG	N9RS	W7AH	OZ2ABI	VQ9LA	VE7BV
K0TV	OE1TKW	W7CD	PY5EG	W2WC	W8LMG
K4ZO	PY5HOT	W9FR	R3VA	W4IS	W8MK
K7TM	RG6G	WB3D	R5QA	W6RKC	W8REW
KR6C	RX4HW	XE2S	R9AB	ZS6UT	W9ILY
NA5DX	SM0BYD	131	RU1AO	127	WB0O
OK1DW	SP6JIU	DK7YY	S51NM	CT3KN	WB2REM
SM5OJH	UA0ACG	G3UHU	TA1CM	HK1MW	WD4LBR
SP2BMX	W4JKC	HS1NGR	VE3DO	IK2SGB	YU1EXY
UT3UZ	YU1AM	IV3KFB	W2MPK	JA1DDH	125
UW8SM	133	JA0AOO	W9ZT	JA1WLO	9A1AD
W2OIB	9K2NO	JA2TBS	129	JA8RJE	AG1A
WB7QXU	EU1U	JH4ADK	HA1RB	JA9KRO	GW3TMP
135	IZ8DFO	JJ1TEA	HB9AZZ	JH3AIU	HK4SAN
5B4MF	JA7GLB	JM1FHL	JA1NWD	JS2LHI	IK5DNF
DJ9ZB	JA9AGN	K1UU	JA8JO	K0RW	JA4IYL
F6FXU	JR6FC	K5VIP	K4TT	K3TRM	JA6VU
IK8GYS	JR7FRW	K9DR	K6XM	KM3T	JE1TSD
IU0HDC	K2CDJ	KC2LSD	LB7ZG	N1AC	JE6UWU
JA7LMZ	KS4YT	KH2L	N0YY	N1GC	JF2WXS
JA8BNP	KU2A	KM3V	N2BJ	N9RD	JH1AGU
JA8JL	OE1KM	KM4H	N3KS	OE8HIK	K1HAP
K1ZE	ON4CAS	N3MK	N3RR	PA3EWP	K5KG
K4ZRJ	RA5BM	N4QWZ	W0YVA	SK7AX	K8DV
K7FL	RV4LC	N5PHT	W7QHE	SP6A	KA6BIM
	UQ2PZ	N6RK	W8MET	SP7ASZ	KI4WCQ
				W0CP	

LZ1XL	N2ED	N3ND	W2YR	K4CNW	UB3A
N2KA	N4DWK	N4TL	W3OA	K5XM	UR9IDX
N3EN	N6MZ	N6HC	W4PRO	K7PI	US1CT
N4JT	N9JV	SV1AHX	W6RFL	K8LN	W4ZRZ
ND5S	N9LQ	UQ1GWW	W7RN	K8WVA	W6SL
NW6S	NA2P	UT4EO	ZL4AS	KD2T	W8ZR
OE1AZS	NA9RB	UU2JQ		KD6UO	WA2USA
RA0BA	S50B	VA3AYA	119	KG8CW	
UU7JM	UA3DK	W0QQ	AA3AZ	KV4AA	116
VE3UTT	UR9QQ	W2GG	AA4DD	LZ2HM	AJ4F
W5DAW	UT3QU	W3RJW	AE3T	N2MM	DL7URH
W9CG*	W1AO	W6XI	AJ4A	N4DJ	EA5BRE
WV4TN	W4NF	W9XX	DK3GG	N6MB	HA7PF
YO2RR	W8NJR	W9YE	DL9OBY	PY2PA	IK0EIE
	XE1H	WA1PMA	EW4M	RN3TT	IK2OHG
124		WT4Q	G4DJJ	SV9COL	IT9TQH
AA7XT	122	WY1G	HB9AAQ	TA2RC	IV3HYD
J11DHY	BA4RF	XE1VIC	HB9BCI	VK4CAG	JA1WTI
KD4POJ	G3NDC		I2TZK	W1KSZ	JE2EHP
NA2U	JA1MRM	120	I4MKN	W4DAO	JH3GCN
PA0TCA	K1BZ	9A5F	IU0LFQ	W4NJ	K1DC
UA0BA	K1ESE	AA5JF	JA3AZD	W5JMW	K1RI
VA7CRZ	K1YT	AC9EM	JA4XGC	W9FI	K9FN
VE1DUN	K2MP	AL7TC	JE2JMV	WX3P	KT1V
W2JU	K7ZA	DL2VWR	JH6CDI	YO4AUL	KV1J
W2RIJ	KR0P	FG5FR	K3FRK		NA9Q
W3FM	LA7WCA	HB9BLQ	K5UZ	117	OZ1LCG
W6CYX	LA8PT	IZ0LKV	K7EG	9Y4VU	PA0JSE
WB8K	N3NR	IZ5NFD	K8KWT	AE0P	RV3ID
	N9AW	JA4EPE	K9SG	BH4IGO	TZ4AM
123	NN7X	JR3UIC	N0KV	DL1DWT	UA4PCM
AB1OC	OZ3Y	JR6LLN	N9UA	G3PLP	W1ENE
AC4TO	RD4A	K2BA	NT2A	IT9DAA	W1WEF
DL7JRD	UU4JMG	K2HK	NY7T	JA1HQT	W7GG
F4GTB	VE6AX	K3QIA	OH5NG	JA4FM	W7OEV
G4WFQ	W2TB	K5JC	OK1DT	JA5FDJ	W8LRO
G5LP	WA3I	K6FW	R6FFB	JA7GYP	WQ5L
HB0WR	WA7BNG	KA8ZPE	SV1ACK	JA7IC	
IK2CHZ		N4BAF	VE3YF	JM3GXU	115
JA0CRG	121	N4LR	W4HZ	JR2UBS	C6AGU
JA1SJV	AA6RR	N4TB	W8FIB	K2BB	CU2CE
JA3MHA	AA8CH	N4UFP	WC2K	K3NF	DL9GOA
JA6WJL	DF1DB	N8PW	WP3R	K6PJ	G4XEE
J14WAO	DK1EI	OE3EVA	XE1RCS	K8OOK	G8BCG
JK1EXO	DK6CQ	OZ2A		K8QM	G8DX
JR1EBE	EI2GLB	PZ5RA	118	N4IR	HA5UK
K2PK	HB9DHG	RL3BZ	5T5PA	N8AA	HK3PJ
K3XO	IT9AAI	SP7ITB	AB2E	N8XI	IW0HEX
K4ZIN	JA2HYD	SV1FKZ	DL5OCE	NY4G	IZ7JVR
K5GH	KD8RQE	SV1IW	JA4FHE	OZ5HP	JA2KNW
K7UT	KG9Z	UR5IKN	J18DGO	SM7BIC	JA3NHL
K9CS	N0OK	US0YA	JN7DOS	SP8HKT	JG3LGD
KV4T	N1JP	W0RX	K3WGR	UA6J	JH1RFM

K0GD	W3MR	WS4C	WT9U	110	F8EZE
K0SD	W4TUN	XE1RBV	ZP6CW	BA4MY	G3SVD
K4CMS	WA1FCN	ZL1BYZ		DL1VDL	HI8R
K4GHS	WA4CEM		111	EA5BYP	JA2CXF
K4GK	WA8MCD	112	9K2OD	F5BAR	K2ONP
K8YTO	WA9YYY	A92IO	AA4U	G3LNS	K4RDU
LY4T	WN9O	DJ1RL	AF4OX	G8AJM	K5FZ
N0IRM	XE3ARV	DK5RL	CU3AN	HC1BI	K5KA
N4OA		DL5CL	DG7RO	I2BBJ	K5KPE
N5BO	113	EA1JO	DK2WH	IK5RUN	K6MW
N8KOL	9A1A	EI8IU	DK6ED	IK8UHA	KE1F
OH8LXT	DJ5DT	EW1DO	DL1HRN	IZ0CKJ	KZ5DX
PA3AXU	DJ9RR	G3XGC	EV1R	J68HZ	N1BZ
RZ6MJ	DL8CM	HB9CEX	F6ECI	JA7EPO	N2WLG
UA1ANA	DL8DYL	HB9CRV	G4DBN	JE2UFF	N7TY
UA1CGS	G4AFJ	HB9G	HL3GOB	JH1VHU	N8NN
UA6XT	HB9EFK	IK2ANI	JA1AUD	K2BLA	ND4V
UN6T	JA0GCI	IU8FRE	JA1FGB	K3JRR	NN4RR
W4UCK	JA4ITW	IZ4DIW	JA1NCZ	K3PH	NU4I
W5VY	JH1ORA	JA1SXR	JE8TGI	K4WW	NX7U
YL2CZ	K0TPP	JA4BXL	JF2WGN	K6MI	PY5CC
	K2HAT	JA7BXS	K0FLY	K6VKO	RW4UU
114	K8SL	JR7TEQ	K5WAF	KB4MRX	RW9QA
AB4GE	K9GWH	K0JPL	K7ORK	KC2STA	RX3AGD
BA4DW	KA4RRU	K1EDG	K9AJ	N2CG	TG9NX
BA7IO	KH6DX	K1EO	KM1R	N3HBX	UB5ZAL
CT3FN	KI0G	K1KO	KP4AA	N3IQ	UT7KF
CU3AK	KT1J	K4UAS	KZ0X	N3JB	VU2CPL
DL6NB	N7KO	K8CC	LA0CX	N4KE	W5WP
F6CWA	N9ISN	KB2FCV	N4WJ	NC6K	WB5TUF
G3SDL	NA3F	KI4DLS	N7BD	NK7C	WN0L
HP3TA	NG0G	KM1C	N9HF	NY4I	YV3AGT
I5OYY	NI5F	LA8HGA	NA1DX	RD9M	
IK7YZG	NK5B	N5ZC	UR6QA	SM5BHW	108
JA1OVD	ON5UE	N6MA	UT1UY	SP9WZS	AI2Q
JA4KDT	R7NA	N6PE	VE6KC	SV1VS	AL7R
JA5WIZ	RA4UN	RU4SU	VE7CT	UA3O	DL6CNG
JH6WMJ	RZ3AUL	SM3DMP	VE7UF	US7MM	ER1LW
K1RV	SM5ARL	UA1ACG	W0VHF	W0UY	G3VAO
K2DC	SP3EPG	UA1CEI	W1FO	W3XY	HB9BAT
K3MD	SV1JFV	UT6UD	W4HOG	W4DC	HB9FAN
K3OSX	SV2AVP	VE7XF	W4OX	W4NE	IK0PRG
K5CD	UN7TW	W1HEO	W5AQ	W5ZPA	IZ0BTB
K5RJ	VE3KI	W2CVW	W7VS	W6KK	IZ2EWR
KB8U	W2GW	W2SKI	W8KA	WL7E	JA2MOG
KZ4V	W6BK	W3UL	W8MIL	XE1FAS	JJ2PIK
N1QY	W8FAX	W4VHF	W9RB	YU7AU	JK1MZT
N2JJ	W9DX	W5VX	WA2BOT	ZL3NW	K1EP
N3MN	W9HBH	W6TC	WA2MUA		K1XM
N4IQ	W9VNE	W8GEX	WB4TDH	109	K2CJ
NU8Z	WA4DOU	W8HMK	WB9EEE	DF1KG	K2KQ
UA3FT	WB2HJV	W9SE	YL3DQ	EA3GHZ	K2MK
W0VX	WB2UFF	WA8OLN	YO6HOY	EU4T	K4WY

K4YJ	K1TZQ	JA2MNB	DJ6KH	W1LY	N6WM
K6UT	K3SW	JE6IGP	DL4ZAB	W1MRH	N8MZ
K8OM	K3YBN	JG3HBO	DL6XK	W4OWY	N9DR
KM8AM	K4MS	JG5RVQ	DO1CTL	W5KI	N9PGG
KN4JX	K4SAF	JH2KKW	ES1GO	W6FF	NJ9C
LU2DKT	K8LBT	JH6PFY	G3YUV	WQ5W	NN3Q
LZ3YY	K8ZR	JJ0NCC	HA8FW	YU1NR	OH4UI
N4MEC	KB9DAK	JR0EQQ	JA1BWA		PA0GMM
N6RFM	KE2R	K0DEW	JA1TAA	104	RA1QX
N9SF	KZ1W	K1PX	JA4EVN	9M2AX	RU3UR
N9TF	N2RR	K4DSE	JA6VA	AD1C	RZ6DX
NU4Y	N3DAP	K5AM	JA7BME	AG4Q	RZ6LB
PA0ZH	N4RF	K5ZQ	JA8RRF	AH0U	SM5CCE
R5FY	N6EE	K8JJC	JA9APM	CP8HD	SM7CQY
R7LA	N8AGU	KD9HL	JF1RYU	CX3CE	SO5AS
RX6DX	NA5Q	KK8X	JF2VAX	DK3BK	UA9FGJ
S57J	OE1CP	KK9H	JO4CFV	DL4FAP	US5CAO
SM6AOU	OK2BUZ	KQ3F	K1DJ	DL7UPN	UT4EK
UX7UN	OK3CQR	N0JZ	K2XF	E73D	UT7EC
UZ6LWZ	R0FA	N2CW	K5AV	EA8ZS	UX4UM
W2UB	RN4AA	N2SQW	K6DJ	EI9E	UY0MM
W3NRJ	RV6ARZ	N3XM	K7OX	F6AJA	VE3VHB
W4ZYT	SP3BQD	N8AID	K7PO	F8GB	W0YBS
W7ACD	SP6AXW	NA5Z	K9RO	G3BRD	W1QA
WA2ALY	US5CB	NI5M	KI5T	HB9CIP	W3DRY
WA8MOA	VE3OI	NS3L	KT2E	HK3O	W3TMZ
WB8BZK	VK3NX	OE5CSP	KX2A	IK0DWN	W5CWQ
WC1M	W3KB	OH2OT	LZ1JZ	JA1SDV	W5GJ
WC6DX	W4MAY	OK1AYU	N2DPF	JA2FGL	W5ZO
WD9EQU	W6TDX	OK2BVG	N4JI	JF1EGO	W6PH
WW1WW	W8IW	S57AL	N4NW	JF6WTY	W7DR
	W8VK	UR3CRO	N4PL	JK1BSM	WA0I
107	W9CPV	UT7UU	N4SC	JO1WXO	WA9ETW
4Z5LA	WA0RVK	UU5WW	N4VN	K0WK	YC0LOW
DJ8ES	WB6CJT	V73AZ	N6NU	K1BG	YO5ODE
DK3FB	WB8ART	VQ9SS	N7DR	K3FM	
DL1QQ	WS1L	W1CWU	ND3L	K4KEW	103
DL2CHN	XE2YWH	W2EQ	ON7PQ	K4MF	AG1I
DL5XU	YL1XZ	W2LE	OZ4AAL	K4VIG	AI3Q
DO4DXA	ZL3RJ	W2NO	PF7M	K5HK	DJ1MM
EA5AT		W3ICM	PJ2/K8ND	K6UM	DJ3GZ
EA7QW	106	W4IR	PY2DS	K7TJR	DJ7PI
FG8OJ	AA4FL	W5JAY	R6YY	K9EA	DL2HX
G4AKY	AE2U	W8OP	RA6AF	KA2BZS	DL8YRM
G4RGK	DJ6OZ	WA4MYO	RD4WM	KH6KG/W5	DM5TI
I5IHE	DL2NOM	WA6TLA	SP5JXK	KI0KB	DS3HWS
IT9XTP	DL3JSW	YL2GN	UA6LCN	KW0A	EA7SG
JA5EY	DL6JZ	YU3EF	UR1RWX	LZ2XF	EU6MM
JA6OXT	EA3CCN		UR2RGN	N3ER	EW3LB
JA8JTH	HA8DZ	105	VE1PZ	N3TR	G3BDQ
JH9DRL	IK0ZIO	DF2PI	VR2MY	N4GU	G4AAW
JR1BAS	IW3GJF	DF8AA	VY2ZM	N4TTE	G4PUQ
K0MD	JA1VLK	DJ3XD	W1LE	N6PF	G4VGO

I0OSI	W5VU	RU3UN	JA6TMU	SM7NDX	FM5GU
JA1JAT	W6SZN	S59DJK	JA7SFD	SP7JLH	G0VXE
JA2GQO	YO7APA	SM6WET	JF1RPZ	SV1PL	G3OIL
JA2OLJ		SP5MXZ	JH3HGH	UA0FDX	G4CGG
JA3FHL	102	T77V	JH3PRR	UG6GAW	GM3ZSP
JA8EJO	A6/RV6LNA	UA1AIR	JI3KDH	UR7CQ	I2VGW
JE1SYN	CT4BD	UA1CKC	K0LW	UT1CC	IK0HFO
JH1DGQ	DK3QM	UA6HOF	K1YR	UT4IS	IK4MSV
JM2RUV	DL3DXX	UA9MR	K2BX	UT7HA	IS0/YO3RA
K0EOO	DL3NCR	UA9UCO	K2TER	VE2OJ	IW0BYL
K2UVV	DL4CW	UW7CN	K3SEW	VE3XB	IW0HQE
K4LQ	DL4KUG	VE2FYR	K4NNX	VK2GR	JA1BRK
K5JUC	DL5RDI	W0JMP	K5DNL	W1FC	JA1CPU
K7BTW	EA8AKN	W1AW	K6AAW	W1GF	JA1ILA
K8CCV	EI4DQ	W1PV	K6XJ	W2SF	JA4FSH
K9MUG	EI6GF	W2LW	K7AR	W3WH	JA5DQH
K9XJ	ES5RW	W2TX	K7IA	W4BUE	JA9CGW
KE1IU	F6BWO	W3EKT	K8BN	W4PM	JF3DRI
KJ4R	FM5WD	W4ALF	K9JU	W5RF	JH7BKN
KJ7WY	HB9AHL	W5TO	K9PG	W7AV	JS6TWW
KM9E	I8LWL	W7IUU	KC4PX	W7CB	K0LB
LX1DA	IT9SFT	WA0IDK	KD3UY	W8GB	K0XM
N0RU	IZ4MJP	WA1S	KE1VT	W9MAF	K1NA
N1HOQ	JA0HXV	WD8DSB	KE4S	W9ZCL	K1NZ
N9BBQ	JA8OW	WS4Y	KF7NN	WA3EKL	K2CBI
NU1T	K0YN	WW5G	KN6J	WB3HLH	K2CYE
OH3GD	K1PTF	YO2CMI	KQ1F	WC4H	K3TZV
OK1DQT	K2LP	YO2IS	KS4XQ	WK9U	K4FT
OK2BQU	K2TK		LA2GV	WR2G	K4KSY
OK3BRK	K3KG	101	LZ1XZ	WV9L	K4QS
OZ7JZ	K4AQQ	AA2VG	N0STL	YO2OXD	K4UQC
R9GM	K4KAY	AA3LX	N2AJ	YO6BHN	K7VIC
RA0FA	K5ZO	AA4NU	N5AQ	YV4DYJ	K8BZ
RA4HT	K7BHM	AC2AC	N8AG		K8CR
RK3QY	K7UA	AC5O	N9JCS	100	K8CS
RU3OW	K8BHZ	CT1JGA	NE1F	9M6YBG	K8LE
SM3CBR	KJ6NZ	D44BC	NX2X	A41ZZ	K9NZ
SM6EHY	KN4KL	DH2FW	OA4TT	AA4AK	KB0EL
SM7BHH	KW4BY	DK9WI	OE3WQB	AB4VV	KC0V
UA3PFN	KY6R	DL1KS	OH3TY	AC4VM	KC4D
US2WU	LA3ANA	DL3ANK	OK1PGF	AI2S	KC5LT
UT2AB	LA6UL	DL5JS	OK2BOB	DJ6OI	KD8BZY
VA2ZO	N5RZ	DM3ML	OK3EY	DL1TPY	KP4N
VA3IC	NZ3M	EA1WX	OK4MM	DL1TRK	KQ5M
VE3EDY	OH2EA	EU1TT	ON4LG	DL9GTB	LA8W
VE3MFA	OK1DTN	G3ZFC	PA4WM	DU7ET	LU5OM
VE3VV	OK1JDX	G4FJK	RA3AH	EA1CP	LU5YF
W0QC	OK3CSQ	GM3WTA	RA4P	EA2AAZ	MM0SJH
W0UVC	PA7TWO	HB9NL	RA4SD	EA3ALD	N0AH
W1CTN	PV8ABC	IV3GOW	RB7GG	EA8AXT	N0ATQ
W4AVY	PY2DO	IV3KCB	RK9F	EC5A	N1KI
W4MZ	R2AB	JA1VVX	RY6M	EI3ISB	N1MD
W5THT	R3IS	JA2VMU	SM2DMU	ES5NC	N2SG

N2XQM	W0MU
N3AF	W1AN
N4CRI	W1YRC
N4ZR	W2CCC
N7DED	W3BBO
N7TK	W4HHN
N8IL	W4OEP
N8NB	W4OV
N8OQ	W5BK
N9ADG	W7DT
NA6O	W7JET
NB3R	W8CNL
NG7A	W8FN
NJ3I	W8GDQ
NN4SS	WB4SON
OE5JDL	WU2M
OK1DXD	YB1TJ
OK2PAZ	YL2SM
ON4ANN	YO9FLD
ON7EH	ZP9MCE
ON7GB	ZS2DL
ON9CC	
OZ1ZD	
PA0INA	
PA7RA	
R3PJN	
R9JX	
RA3SD	
RA4LW	
RA6XB	
RC2A	
RN1A	
RT5A	
RU3GF	
S53MJ	
S59SV	
SM0CXU	
SV1VJ	
SV2DSJ	
TI5CDA	
UA3AKI	
UA4PAY	
UA6CEY	
UN6P	
UR4CW	
UR4LRG	
UR8IDX	
VE1RGB	
VE3OAT	
VE7JKZ	
VP2VA	
VR2PX	
W0GYH	