

Preliminary Results: North American QSO Party – RTTY, February 2019

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*The Preliminary Results and this narrative are being uploaded to **NCJweb.com** as soon as possible after log checking. Please send any corrections to K6UFO. Final results will be published to **NCJweb.com** and the National Contest Journal magazine around the July issue.*

The February 2019 running of the NAQP RTTY was the best of times, and the worst of sunspots. There were 28 days in February. This year, all 28 of them were spotless according to Spaceweather.com There were only a handful of contacts on the 10m band, usually with local neighbors, and drastically reduced number of contacts on the 15m band. Despite this sunspot lull, overall operator activity was high with over a thousand operators on-the-air, 710 logs received and 55 Teams of operators.

The usual "small" number of people had trouble getting RTTY working correctly. The popularity of FT8 operating, and the similarities between FT8 and AFSK RTTY, hasn't yet eliminated this technical hurdle. The usual "medium" number of people reported that heavy snow and wind kept them off the air, or limited the antennas they could use. The usual "large" number of people reporting having fun!

Without the 10m and 15m bands, the other bands were stressed. For information on the "usual" RTTY frequencies see the website of Don, AA5AU called rttycontesting.com and look for the "RTTY Sub-bands". rttycontesting.com/rtty/rtty-sub-bands/ During the contest, high FT8 activity, either JSCall, or the T31 or XX9 DXpeditions, was visible up to 14080 kHz. Thank you to the considerate RTTY operators who moved up to 14081 kHz and higher. Finding an open space on 20m often meant looking up above the NCDXF Beacon frequency of 14100 kHz. After North American sunset, the usual 40m space of 7080 to 7125 kHz just wasn't big enough, and many operators dropped down to the "European" RTTY frequencies of 7025 to 7070 kHz. The 80m band had the most severe problems as the usual 3580 to 3600 kHz was not sufficient. RTTY is not allowed in the USA above 3600 kHz and the recommended solution is to "go low" on 80m and populate 3525 to 3570 kHz. Thank you to RTTY operators who took the time to avoid any CW QSOs.

Multi-Two Top Five

<i>Call Sign</i>	<i>Score</i>	<i>QSOs</i>	<i>Mults</i>	<i>QTH</i>	<i>Operators</i>
NE1C	120,224	884	136	MA	(K1NZ,KX1X,W1KDM)
W4KZ	115,640	826	140	ME	(K4NV,NN9DD,W9SN,WW4LL)
N3QE	91,800	613	150	MD	(N3QE)
N5YA	83,062	698	119	TX	(K5QE,K7RSM,N5YA)
W0LSD	80,041	611	131	CO	(W0LSD)

Dave, K1TTT graciously allowed his station be put on the air as NE1C for a big Multi-two score from Massachusetts. Plenty of detailed technical information on his station is at wiki.k1ttt.net



(Photo W4KZ, Photo courtesy of WW4LL)

A newcomer(?) to the Multi-Two category was second place W4KZ, with a booming signal from Maine. This new remotely operated super-station is under development by Fred, WW4LL and Steve, W9SN. Look for more activity from them, and see their plans at **BeLoud.us** Our W4KZ photo shows Mike, NN9DD, in the foreground, and Steve, W9SN and Dennis, K4NV in the background.

Also in the Multi-Two category, the "Tough Texans" of NR5M were on the air as a Multi-Two, passing out lots of contacts, but did not submit a log. Multi-two also had big scores by Tim, N3QE and Ken, W0LSD who were operating "solo" but wished to use spotting networks. The team at the Collington continuing-care retirement community K3CCR, added a second radio and produced their best NAQP score to date. Steve, NR4M had the "Goat Farm" on the air, and kept everyone on their toes distinguishing NR4M from NR5M. Learn more at Steve's station at **www.nr4m.com**

Single Op Top Ten

<i>Call Sign</i>	<i>Score</i>	<i>QSOs</i>	<i>Mults</i>	<i>Team</i>
W7RN(WK6I)	152,684	931	164	NCCC Team #1
W9KKN	111,450	743	150	NCCC Team #1
K6LL	107,464	707	152	SWACC #1
W7WW	104,424	687	152	SWACC #1
AA3B	96,360	730	132	SWACC #1
KK6P(W7IV)	95,922	657	146	NCCC Team #1
K9OM	86,832	648	134	ORANGE SQUEEZERS-1
N4ZZ	80,500	700	115	SWACC #1
WD0T	80,496	688	117	NCCC & Friends
K9YC	75,790	530	143	NCCC Team #1

In Single-op, Jeff WK6I operated at the W7RN station in Nevada, and reports "a firehose of contacts on 15m" with 119 contacts. Tom, K5RC manages the Comstock Memorial Station, W7RN, and tries to have operators for every major contest throughout the year. Thank you Tom! Learn more about the station at w7rn.com

Our 15m QSO leader with 126 contacts was Bill, W9KKN operating at the famous N6RO station in California. Bill used the good antennas and the early 15m opening to get a fast start. He thinks he made a few mistakes in break times, and bemoans how the East Coast can be productive on 80m so early. But, well done Bill!

These west-coasters anchored the Team NCCC#1: (W7RN, W9KKN, KK6P, K9YC, K6RIM). NCCC#1 came out ahead by just 1 percent over the perennial leaders of Team SWACC#1 (W7WW, K6LL, AA3B, N4ZZ, W4GKM). Tough competition, indeed! These and the many other Teams make for motivation, cooperation, and help keep activity on the air for "just a few more points for the Team." Thank you to SMC for fielding 11 Teams, and NCCC for 6 Teams. There were also notable Team scores from the Deep Dixie CC Team Elvis, and the ORANGE SQUEEZERS-1. I love the clever names!

Team Scores Top Five

NCCC Team #1	(W7RN,W9KKN,KK6P,K9YC,K6RIM)	450,546
SWACC #1	(K6LL,W7WW,AA3B,N4ZZ,W4GKM)	445,988
SMC Team Alpha	(N9CK,K9NR,N7US,WB9Z,ND9G)	307,156
Deep Dixie CC Team Elvis	(AB5OR,K0WA,AB0S,WV4P,KT4Q)	283,474
DFWCG Mark	(AD5XD,K5RT,WA5FWC,WB0TEV)	232,920



(Photo V4/W3UL, Photo courtesy N3UL)

Notable DX were Alan, KP4/K6DTT operating a smooth remote operation, and Bill, V4/W3UL. Bill traveled to island Nevis in the Caribbean for a string of events - the WPX RTTY, ARRL DX CW, NAQP RTTY and the weekly CW Ops Tests. Bill used a high inverted vee, a 20m Delta Loop, and an Elecraft K3s. Bill reports too many stations had trouble with his QTH of "V4". North American DX stations send their DX prefix, and outside of North American the DX stations send a QTH of "DX". Bill established our record score for St. Kitts & Nevis, and we hope to see him again. From the photo we can see Bill was relaxed and having a good time. I love all the sticky labels on his laptop!

In Single Op QRP, Bob, W7YAQ turned in a notable 250 QSOs from Oregon, and John, N6HI showed us that 50 QSOs could be made with only one-half watt and a "wonder wire."

At least eight schools participated as part of the North American College Championship, with W9JWC at Bradley University submitting the highest scoring log. They report they had fun, and were missing only DE and RI for a Worked-All-States. Well done! See more at w9smc.com/nacc/

Our next NAQP RTTY will be July 20, 2019. Thank you to N6TR and WA7BNM for producing our results, and to ICOM America for sponsoring our award plaques.

Selected Soapbox from 3830scores.com (Thank you to Bruce, WA7BNM):

A turkey flew into, and twisted, my power lines 4 hrs before the contest... - K6GHA

Great fun running the KX-2, I'll also figure out the new Flex 6600 for RTTY soon. - VE3HG

First day without rain in the past two weeks! - W4ER

Many new callsigns in the log, which is always nice to see. - AD4EB

100 watts is the new QRP in these band conditions. - K6DAJ

Had my oldest grandson help me out. He said it was cool! - AI9T

I do not have that set up like I want it, but stuck to it, as it was working. - KU4V

Just a few Qs in the never ending battle to keep MD as the least needed mult in any domestic contest. - K3TN

Nice to have good company to chat with while pressing buttons. - NR5M

I am going to blame all of this on the 8 inches of rain and gale force winds. - W4GKM

Twenty went early, Forty went long, and Eighty went to Dodge City. - AB1J

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WD0T	80,496	688	117	NCCC & Friends
K9YC	75,790	530	143	NCCC Team #1

Single Op QRP Top Five

<i>Call Sign</i>	<i>Score</i>	<i>QSOs</i>	<i>Mults</i>
W7YAQ	24,153	249	97
AA8OY	11,256	168	67
N2WK	11,220	170	66
W3IQ	5,929	121	49
N0UR	5,300	100	53

Team Scores

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SMC Team Alpha (N9CK,K9NR,N7US,WB9Z,ND9G)	307,156
Deep Dixie CC Team Elvis (AB5OR,K0WA,AB0S,WV4P,KT4Q)	283,474
DFWCG Mark (AD5XD,K5RT,WA5FWC,WB0TEV)	232,920
ORANGE SQUEEZERS-1 (K9OM,AA2MF,W1N)	180,776
NCCC Team #2 (AF6SA,K6GHA,WU6W,K6SRZ)	170,199
GM Cross Country Skiers (N0KQ,W0CO,N0TA,KH6CJJ,WT0DX/P)	163,533
KCG (ND4Y,KE4KY,W4LC,KC4WQ,KM4FO)	159,318
Baud Boyz (AB1J,NX8G,W4UK,N8FYL,WB2COY)	142,950
SCCC #1 (N6WT,KI6VC,KF6RY,K6MUG,KK6YB)	123,944
Deep Dixie CC Team Magnolia (NN5O,AD5TT,K4AFE,N5VGK)	120,813
Brady's Bunch (N1IXF,W1UJ,K5ZD,W1DYJ)	118,873
PVRC SPACES (K7SV,K4GMH,K4MI)	113,562
SMC Team Bravo (K9CT,WB9HFK,WD9CIR,WR0H,WE9V)	109,291
NCCC & Friends (WD0T,K6OK,K6MR,K6DGW)	108,187
SMC Team Echo (N2BJ,KG9X,KT9L,KK9DX,KW9U)	100,284
SMC Team Delta (KD9MS,KC9K,KC9EE,KE0L)	94,985
TDXS (W5PF,WB5TUF,KG5U)	93,780
SMC Team Charlie (NV9L,K9QQ,WS0I,AI9T,NT9E)	93,685
PVRC CVA (W4PK,N2QT,K4XL)	91,120
ORANGE SQUEEZERS-2 (W4CU,AA0O,K3SV,WI9WI,K4SBZ)	79,208
SMC Team Hotel (N5RP,K9CW,KC9EOQ,N9JF,K9LC)	78,996
Arizona Outlaws Wranglers (W7ZR,N7GP,NG7Z,N9NA)	69,174
TCG - Gold (AD4EB,K4RO)	69,160
SMC Team Foxtrot (N9TF,N9VPV,N9LQ,N9WEW,NG9R)	52,245
NCCC Team #4 (N6ZFO,K6DAJ,K6GFJ,W6FB,N5YJZ)	50,396
SMC Team Juliett (K9DJT,K9IG,K9MMS,K9GY)	47,604
Northeast Maryland Amateur Radio Contest Society (K3TEF,WC3N,KE3GK,N3FJP)	45,896

SHENANDOAH VALLEY WIRELESS (W4PJW,AD4TJ)	44,076
SMC Team India (WW9R,K9DUR,W9RE,WB8RFB)	43,705
DFWCG Space (WB5K,WQ5L,N5XE)	41,679
Metro Shooters (N9AKR,WA9LEY,N9LAH)	40,968
Digi Owls - West (K2RB,KS2G)	38,734
GM Snowshoers (W0ETT,KF0UR,K6XT,WC7S)	37,489
NCCC Team #3 (N6EE,K6MM,NA6O,NN7SS,WU6X)	34,973
NCCC Team #5 (W1RH,NT6F,K6ST,KA6W,NF6A)	33,870
Bristol Dipoles (K4LPQ,AA4DD,KT4O)	33,260
SCCC #2 (WA6I,NE6I,KB9FKO)	32,891
Flying Iguanas (KI9A,WT2P,W9IZ,AJ9C)	28,424
NW FLYING PIGS (KD6TR,KO7I)	22,091
Metro Snipers (W9ILY)	21,165
Digi Owls - East (KA2D,N2MUN,N2GA)	19,766
SM Rockets (AA9L,KC9TZO)	18,544
SMCTeam Kilo (N9IO,K9IJ,N9DR)	16,020
Cokan-kids (AC0E,K5ZG)	15,588
PVRC MARKS (K4FTO,N3KN)	14,115
Go Blue! (K8QKY)	10,530
I Guana Go To The TTY Bar (K9NW,K9PG,KJ9C)	8,938
SMC Team Golf (W9XT,NJ9R)	8,510
DFWCG Diddle (WA5LXS,NM5M)	7,427
Cornwall (AB3AI,KI9S,KA3D,W3CDZ)	5,956
NCCC Team #6 (N6WM,N6RO,KO6LU,K9JM,KE6QR)	5,524
Doolin Diddling Dudes (W4MYA)	2,838
KCG-PT (AB4IQ)	1,050

Single Operator Scores by Call Area

<i>Call Sign</i>	<i>Score</i>	<i>QSOs</i>	<i>Mults</i>	<i>Team</i>	
N1IXF	53,286	498	107	CT	Brady's Bunch
W1QK	41,454	423	98	CT	
AB1J	38,784	384	101	MA	Baud Boyz
W1DX (N6ERD)	37,600	376	100	CT	
W1UJ	31,759	349	91	MA	Brady's Bunch
K5ZD	26,884	286	94	MA	Brady's Bunch
N6EE	17,325	231	75	ME	NCCC Team #3
KB1LRL	14,688	204	72	MA	
N1MGO	13,888	224	62	MA	
W1TO	13,246	179	74	MA	
W1ARY	12,935	199	65	CT	
NG1I	11,913	209	57	MA	
WC4E	10,230	155	66	MA	
K1SM	9,912	177	56	MA	
N1MD	7,844	148	53	CT	
W1DYJ	6,944	112	62	ME	Brady's Bunch
AA1ON	4,560	120	38	MA	
N1UZ	3,136	98	32	MA	
KC1ERO	2,508	66	38	CT	
N1KWF	2,346	69	34	NH	
AB1ZQ	2,291	79	29	VT	
N2HX	1,984	62	32	VT	
KB1GKN	1,938	57	34	NH	
KA1GOO	1,782	54	33	ME	
KA1C	1,600	50	32	ME	

WA1DRQ	1,196	46	26	MA	
K1LHO	828	36	23	CT	
*W1IG	476	28	17	CT	
W1MJ	391	23	17	MA	
W1ZFG	340	20	17	CT	
K2DFC	37,183	361	103	NJ	
K2RB	26,190	291	90	NY	Digi Owls - West
KB2CKN	20,584	248	83	NY	
WB2PJH	17,250	230	75	NJ	
WB2COY	14,874	201	74	NY	Baud Boyz
W2JV	13,896	193	72	NY	
KS2G	12,544	196	64	NY	Digi Owls - West
WA2QAU	11,712	183	64	NY	
K2NV	11,700	195	60	NY	
*N2WK	11,220	170	66	NY	
AG2AA	9,800	200	49	NY	
KA2D	7,440	124	60	NY	Digi Owls - East
N2MUN	6,850	137	50	NY	Digi Owls - East
N2GA	5,476	148	37	NY	Digi Owls - East
*K2YG	4,251	109	39	NJ	
ND2K	3,666	94	39	NJ	
K2UA	2,635	85	31	NY	
N2HMM	2,568	107	24	NJ	
KD2DXJ	2,340	60	39	NY	
W2KGY	1,972	58	34	NY	
KD2DVW	1,296	48	27	NJ	
K2QB	1,060	53	20	NY	
AK2S	990	45	22	NJ	
W2VTV	924	44	21	NJ	
*KC2WUF	561	33	17	NJ	
WB2NVR	527	31	17	NY	
KB2NB	494	26	19	NJ	
KA2AEY	420	30	14	NY	
W2GFV	132	12	11	NJ	
KD2CQ	15	5	3	NJ	
AA3B	96,360	730	132	PA	SWACC #1
W3FIZ	40,044	426	94	PA	
WW3S	35,844	348	103	PA	
KB3AAY	25,066	302	83	MD	
K3AJ	23,933	263	91	MD	
K3TEF	19,575	261	75	PA	Northeast Maryland Amateur Radio
Contest Society					
WC3N	13,800	200	69	MD	Northeast Maryland Amateur Radio
Contest Society					
AJ3C	12,876	174	74	PA	
WA3ZSC	12,489	181	69	PA	
K3NDM	11,937	173	69	MD	
N3DUE	9,828	156	63	MD	
KE3GK	6,552	126	52	MD	Northeast Maryland Amateur Radio
Contest Society					
N5TB	6,150	123	50	MD	

N3FJP	5,969	127	47 MD	Northeast Maryland Amateur Radio
Contest Society				
KE3ZT	5,934	138	43 PA	
K3TN	5,088	96	53 MD	
AB3AI	5,088	106	48 PA	Cornwall
KA3PMW	4,536	108	42 PA	
KC3DRZ	4,171	97	43 PA	
K3AU (K2YWE)	3,640	104	35 MD	
W3DAD	3,280	82	40 MD	
N3VN	2,926	77	38 PA	
WA3MD	2,376	72	33 MD	
KN3A	1,296	54	24 PA	
K3PP	1,275	51	25 PA	
N3XL	1,060	53	20 MD	
N3RDV	1,014	39	26 PA	
W3FA	627	33	19 MD	
KX2S	450	30	15 PA	
WS3C	375	25	15 PA	
KA3D	266	19	14 PA	Cornwall
W3CDZ	90	10	9 PA	Cornwall
N3RUM	56	8	7 PA	
K4EET	40	8	5 MD	
K9OM	86,832	648	134 FL	ORANGE SQUEEZERS-1
N4ZZ	80,500	700	115 TN	SWACC #1
AD4EB	69,106	634	109 TN	TCG - Gold
W4GKM	57,240	540	106 TN	SWACC #1
W4PK	56,603	529	107 VA	PVRC CVA
AA2MF	55,944	504	111 FL	ORANGE SQUEEZERS-1
K7SV	50,932	476	107 VA	PVRC SPACES
WV4P	48,720	464	105 TN	Deep Dixie CC Team Elvis
ND4Y	47,405	499	95 KY	KCG
KT4Q	44,733	403	111 FL	Deep Dixie CC Team Elvis
W4CU	39,780	390	102 FL	ORANGE SQUEEZERS-2
KE4KY	39,200	400	98 KY	KCG
W1N (WO4O)	38,000	380	100 FL	ORANGE SQUEEZERS-1
K4GMH	37,400	440	85 VA	PVRC SPACES
KU4V	37,318	397	94 NC	
W4LC	33,553	377	89 KY	KCG
W4PJW	33,120	345	96 VA	SHENANDOAH VALLEY WIRELESS
W4GO	32,973	379	87 VA	
KC4WQ	31,620	340	93 KY	KCG
WS6X	29,304	333	88 VA	
W4UK	29,240	344	85 SC	Baud Boyz
N2QT	29,072	316	92 VA	PVRC CVA
K8RGI/4	25,960	295	88 FL	
N4UA	25,272	312	81 VA	
K4MI	25,230	290	87 VA	PVRC SPACES
K4LPQ	24,254	362	67 TN	Bristol Dipoles
WK9M	23,785	335	71 TN	
W1GKT	21,900	292	75 AL	
AA0O	20,584	248	83 FL	ORANGE SQUEEZERS-2
N4CF	20,400	240	85 VA	
NN4RB	18,549	229	81 VA	

K4GM	16,848	208	81 VA	
K3SV	14,625	195	75 FL	ORANGE SQUEEZERS-2
K4VD	14,504	196	74 VA	
K2WK	13,650	195	70 VA	
KN4BIT	12,720	212	60 FL	
N3CKI	11,844	188	63 NC	
W1VET	11,076	156	71 FL	
AD4TJ	10,956	166	66 VA	SHENANDOAH VALLEY WIRELESS
K4FTO	9,715	145	67 VA	PVRC MARKS
WX4W	9,656	142	68 KY	
K2PS	9,633	169	57 FL	
K4AFE	9,577	157	61 TN	Deep Dixie CC Team Magnolia
K4HMB	8,874	153	58 NC	
KE4S	8,680	140	62 VA	
AA4JQ	8,540	140	61 TN	
W4ELP	8,085	147	55 VA	
KM4FO	7,540	145	52 KY	KCG
KK4WX	7,434	126	59 GA	
NC4MI	7,316	124	59 NC	
WT4R	6,552	117	56 TN	
K8LF	6,095	115	53 VA	
AA4DD	5,904	123	48 TN	Bristol Dipoles
K4XL	5,445	121	45 VA	PVRC CVA
KQ4LA	5,390	98	55 VA	
AI4WW	5,085	113	45 FL	
K4WW	4,836	124	39 KY	
N4GU	4,830	115	42 NC	
KW4J	4,558	106	43 AL	
N3KN	4,400	100	44 VA	PVRC MARKS
KS4YX	4,400	100	44 SC	
KI4FH	3,420	95	36 FL	
KM4F	3,300	75	44 GA	
KC4SAW	3,276	91	36 TN	
N3UA	3,220	92	35 VA	
KT4O	3,102	94	33 TN	Bristol Dipoles
W4MYA (WU4G)	2,838	86	33 VA	Doolin Diddling Dudes
KD4TRG	2,736	76	36 TN	
N2LEE	2,607	79	33 VA	
W4WWQ	2,048	64	32 VA	
*W4ER	1,890	54	35 AL	
KS3K	1,742	67	26 FL	
KO8V	1,674	62	27 VA	
K3NC	1,600	50	32 VA	
W4GDG	1,568	56	28 VA	
W3YY	1,320	60	22 VA	
KG4IGC	1,320	55	24 SC	
K4KZ	1,152	48	24 NC	
KS0CW	1,144	52	22 VA	
AA4CF	1,081	47	23 GA	
AB4IQ	1,050	50	21 KY	KCG-PT
K4WI	1,008	48	21 AL	
W9FFA/4	1,000	40	25 FL	
WJ4HCP	924	42	22 TN	
WU0B	861	41	21 SC	

K4MIL	836	38	22	VA	
K4YCR	798	38	21	VA	
KI4SP	682	31	22	AL	
WA2PCN	608	38	16	SC	
WA4DYD	532	28	19	GA	
WB4MM	520	26	20	FL	
KQ4Y	391	23	17	FL	
*W4ZGR	357	21	17	FL	
N8AID	264	24	11	VA	
N3CW	204	17	12	VA	
*N4NQY	112	16	7	VA	
NJ4F	104	13	8	SC	
*N4RLI	80	10	8	VA	
K4ME	63	9	7	NC	
K4RO	54	9	6	TN	TCG - Gold
K4SBZ	48	8	6	FL	ORANGE SQUEEZERS-2
AF4RK	48	8	6	FL	
N4UXA	28	7	4	VA	
N3GTG	15	5	3	VA	
N4MM	9	3	3	VA	
W4GHV	2	2	1	NC	
AD5XD	72,152	622	116	TX	DFWCG Mark
K5RT	70,200	600	117	TX	DFWCG Mark
AB5OR	66,378	598	111	MS	Deep Dixie CC Team Elvis
NN5O	63,452	547	116	MS	Deep Dixie CC Team Magnolia
WA5FWC	56,710	535	106	TX	DFWCG Mark
AD5TT	44,172	409	108	TX	Deep Dixie CC Team Magnolia
W5PF	36,064	368	98	TX	TDXS
WB0TEV	33,858	342	99	TX	DFWCG Mark
N5KWN	29,726	334	89	TX	
WB5TUF	29,234	311	94	TX	TDXS
KG5U	28,482	303	94	TX	TDXS
K0GEO	24,024	273	88	TX	
WB5K	22,848	272	84	TX	DFWCG Space
K5TXM	22,484	292	77	TX	
AE5P	20,340	226	90	TX	
W0ZW	14,013	173	81	NM	
KK5JY	13,534	202	67	OK	
WQ5L	12,506	169	74	MS	DFWCG Space
KD5J	11,592	184	63	AR	
NK5P	11,310	174	65	TX	
NA5J	10,075	155	65	TX	
N5RZ	9,660	161	60	TX	
KC5WX	7,920	144	55	TX	
KC5RGQ	6,765	123	55	NM	
N5XE	6,325	115	55	OK	DFWCG Space
N5UM	5,895	131	45	OK	
WA5LXS	5,777	109	53	TX	DFWCG Diddle
WA6EEM	5,544	126	44	TX	
K5TBA	5,050	101	50	NM	
*W5LA	4,042	86	47	LA	
KB5CUS	3,706	109	34	TX	
N5VGK	3,612	84	43	MS	Deep Dixie CC Team Magnolia

WW5DX	3,564	81	44	TX	
KF5VRD	3,432	104	33	OK	
WA9AFM/5	2,553	69	37	OK	
AG5S	2,070	69	30	NM	
WT0DX/P	1,904	68	28	NM	GM Cross Country Skiers
N5RLM	1,860	60	31	LA	
AA5AU	1,666	49	34	LA	
NM5M	1,650	50	33	TX	DFWCG Diddle
K5HDU	1,363	47	29	TX	
KC2LM	522	29	18	NM	
AB5XM	420	30	14	TX	
N5XJ	96	12	8	TX	
WE5TR	80	10	8	TX	
W4EIS	1	1	1	TX	
W9KKN	111,450	743	150	CA	NCCC Team #1
KK6P (W7IV)	95,922	657	146	CA	NCCC Team #1
K9YC	75,790	530	143	CA	NCCC Team #1
N6WT	68,670	545	126	CA	SCCC #1
AF6SA	54,356	428	127	CA	NCCC Team #2
K6GHA	49,228	397	124	CA	NCCC Team #2
KM6Z	46,138	391	118	CA	
WN6K	40,906	362	113	CA	
AA2IL	37,343	349	107	CA	
KI6VC	30,240	336	90	CA	SCCC #1
K6SRZ	29,952	288	104	CA	NCCC Team #2
WA6I	28,413	287	99	CA	SCCC #2
N6ZFO	27,248	262	104	CA	NCCC Team #4
KH6CJJ	24,651	297	83	KH6	GM Cross Country Skiers
W6YX (N7MH)	23,064	248	93	CA	
W1RH	21,111	227	93	CA	NCCC Team #5
KH6ZM	20,336	248	82	KH6	
W6RC	19,680	246	80	CA	
K6DAJ	18,275	215	85	CA	NCCC Team #4
AE6JV	17,901	221	81	CA	
KF6RY (W6ZL)	17,174	277	62	CA	SCCC #1
KK6KMU	16,432	208	79	CA	
W1SRD	15,010	190	79	CA	
K6RIM	14,700	245	60	CA	NCCC Team #1
W1PR	14,625	195	75	CA	
K6TQ	14,235	195	73	CA	
K6OK	14,129	199	71	CA	NCCC & Friends
KW6S	13,120	164	80	CA	
AJ6CY	12,800	160	80	CA	
N6LL	11,932	157	76	CA	
W6OQI	10,494	159	66	CA	
N6GP	10,080	140	72	CA	
NT6F	9,536	149	64	CA	NCCC Team #5
K6MM	8,400	175	48	CA	NCCC Team #3
K6MR	7,952	112	71	CA	NCCC & Friends
NA6O	5,130	95	54	CA	NCCC Team #3
K6MUG	4,900	98	50	CA	SCCC #1
N6WM	4,896	96	51	CA	NCCC Team #6
K6BIR	4,802	98	49	CA	

K6GFJ	4,089	87	47 CA	NCCC Team #4
K6HGF	4,032	96	42 CA	
AI6V	3,822	98	39 CA	
NE6I	3,360	84	40 CA	SCCC #2
KE6GLA	3,081	79	39 CA	
W6JBR	3,066	73	42 CA	
KK6YB	2,960	74	40 CA	SCCC #1
W6RKC	2,666	62	43 CA	
KE6SHL	2,442	66	37 CA	
*NN6NN (W6XK)	2,400	50	48 CA	
K6JF	2,117	73	29 CA	
W6SR	2,040	60	34 CA	
KA6W	1,590	53	30 CA	NCCC Team #5
N2CJN	1,568	49	32 CA	
KM6I	1,472	46	32 CA	
AA6MK	1,247	43	29 CA	
KB9FKO	1,118	43	26 CA	SCCC #2
KH6GMP	850	50	17 KH6	
W6FB	780	39	20 CA	NCCC Team #4
KK6TV	726	33	22 CA	
W6SFI	726	33	22 CA	
K6KHB	638	29	22 CA	
K6CTA	600	30	20 CA	
NK6A	476	28	17 CA	
KM6HB	450	25	18 CA	
N6RO	357	21	17 CA	NCCC Team #6
NH6Y	323	19	17 KH6	
KO6LU	210	21	10 CA	NCCC Team #6
W6GJB	64	8	8 CA	
K6EU	56	8	7 CA	
K9JM	36	6	6 CA	NCCC Team #6
KD6HOF	30	6	5 CA	
KE6QR	25	5	5 CA	NCCC Team #6
N5YJZ	4	2	2 CA	NCCC Team #4
WU6X	2	2	1 CA	NCCC Team #3
NF6A (K6XX)	1	1	1 CA	NCCC Team #5
W7RN (WK6I)	152,684	931	164 NV	NCCC Team #1
K6LL	107,464	707	152 AZ	SWACC #1
W7WW	104,424	687	152 AZ	SWACC #1
KA6BIM	51,562	406	127 OR	
KI6QDH	38,634	411	94 WY	
WU6W	36,663	363	101 NV	NCCC Team #2
WC7Q	35,904	352	102 WA	
W7VXS	35,328	368	96 WA	
WS7V	34,986	343	102 WA	
W7ZR	33,475	325	103 AZ	Arizona Outlaws Wranglers
K7GS	33,108	356	93 WA	
*W7YAQ	24,153	249	97 OR	
K7BTW	22,010	310	71 WA	
KD6TR	20,915	235	89 WA	NW FLYING PIGS
N7GP	19,200	256	75 AZ	Arizona Outlaws Wranglers
AK7O	18,225	243	75 UT	
K7HKR	13,320	180	74 AZ	

N7UJJ	13,277	187	71	AZ	
NG7Z	13,167	171	77	AZ	Arizona Outlaws Wranglers
W8WOM	13,000	200	65	OR	
N9RV	12,545	193	65	MT	
WA7YAZ	9,975	175	57	UT	
KL2R (N1TX)	8,232	196	42	KL7	
N7UVH	7,866	171	46	ID	
N7EPD	6,741	107	63	WA	
N6FC	6,466	122	53	OR	
WA7CPA	6,156	108	57	WA	
W7CD	5,936	112	53	WA	
K6DGW	5,610	110	51	NV	NCCC & Friends
KG7DMI	5,148	99	52	NV	
KE7GKI	4,876	106	46	AZ	
W7PU	4,446	117	38	WA	
*NN7SS (K6UFO)	4,116	98	42	WA	NCCC Team #3
N7VEA	4,018	82	49	ID	
NW7D	4,005	89	45	AZ	
K7GA	3,870	86	45	AZ	
WB7CYO	3,705	95	39	ID	
N9NA	3,332	98	34	AZ	Arizona Outlaws Wranglers
KW7N	2,747	67	41	WA	
*N6MA	2,485	71	35	AZ	
K7JSG	2,268	63	36	WA	
WA7BRL	1,870	55	34	WA	
K6ST	1,632	51	32	NV	NCCC Team #5
KF7GMV	1,560	60	26	ID	
*WC7S	1,550	50	31	WY	GM Snowshoers
K7RBT	1,500	50	30	OR	
KJ9C	1,488	62	24	MT	I Guana Go To The TTY Bar
KO7I	1,176	49	24	WA	NW FLYING PIGS
KB7AK	1,161	43	27	WA	
N1JM	1,056	48	22	AZ	
KB7N	891	33	27	WA	
WA7SHP	864	36	24	OR	
*N6HI	846	47	18	AZ	
K7AZT	360	24	15	AZ	
N7JI	160	16	10	OR	
W7JSD	135	15	9	AZ	
WB7WHG	30	6	5	OR	
W7QM (W6SX)	9	3	3	OR	
K7MSO	9	3	3	UT	
N7ESU	2	2	1	ID	
N6KW	1	1	1	WA	
NX8G	36,270	390	93	OH	Baud Boyz
K2CUB	30,875	325	95	MI	
AA8R	29,760	320	93	MI	
N8FYL	23,782	253	94	MI	Baud Boyz
N8BJQ	15,808	208	76	OH	
KD8AJK	15,696	218	72	OH	
K3JT	13,790	197	70	WV	
*AA8OY	11,256	168	67	OH	
K8QKY	10,530	195	54	MI	Go Blue!

KI8B	6,900	115	60	OH	
*W3IQ	5,929	121	49	OH	
WA8YVF	3,724	76	49	OH	
N8ME	3,298	97	34	OH	
N8TCP	2,546	67	38	OH	
K8AJS	2,538	94	27	OH	
KG9Z	2,112	64	33	OH	
WA8KAN	2,074	61	34	WV	
N8PWM	1,798	58	31	MI	
N8PCN	1,519	49	31	OH	
KI5YK	1,160	58	20	MI	
K8QH	798	42	19	MI	
W8DW	660	30	22	MI	
N8CM	608	32	19	MI	
K8SIA	448	28	16	MI	
*N8URE	325	25	13	WV	
KD8MQ	252	18	14	OH	
K8BZ	77	11	7	MI	
KD8COO	63	9	7	OH	
N8IW	35	7	5	OH	
W8LRJ	1	1	1	OH	
N9CK	71,303	631	113	WI	SMC Team Alpha
K9NR	70,092	594	118	IL	SMC Team Alpha
N7US	60,681	537	113	IL	SMC Team Alpha
WB9Z	56,465	491	115	IL	SMC Team Alpha
KD9MS	55,862	527	106	IL	SMC Team Delta
K9CT	51,100	511	100	IL	SMC Team Bravo
K9WX	50,930	463	110	IN	
ND9G	48,615	463	105	IL	SMC Team Alpha
WB8BZK	40,299	399	101	IL	
N2BJ	38,208	398	96	IL	SMC Team Echo
KG9X	36,288	378	96	IL	SMC Team Echo
N5RP	36,036	364	99	IL	SMC Team Hotel
NV9L	33,915	357	95	IL	SMC Team Charlie
AC9KW	28,645	337	85	IL	
WW9R	28,424	323	88	WI	SMC Team India
AC9S	27,342	294	93	IL	
N9TF	25,714	299	86	IL	SMC Team Foxtrot
AI0Y/9	25,542	297	86	IL	
WB9HFK	25,389	273	93	IL	SMC Team Bravo
K9DJT	25,317	291	87	WI	SMC Team Juliett
K9QQ	24,570	270	91	IL	SMC Team Charlie
N9AKR	24,012	276	87	IL	Metro Shooters
N9OK	22,703	311	73	IL	
N9LJX	22,410	270	83	IN	
KC9K	21,465	265	81	IL	SMC Team Delta
W9ILY	21,165	249	85	IL	Metro Snipers
K9IG	19,456	256	76	IN	SMC Team Juliett
K9CW	18,318	213	86	IL	SMC Team Hotel
AA9L	18,225	243	75	WI	SM Rockets
KI9A	16,280	220	74	IL	Flying Iguanas
WD9CIR	15,801	229	69	IL	SMC Team Bravo
KO0Z	14,430	195	74	IL	

KC9EOQ	12,144	176	69	IL	SMC Team Hotel
KT9L	11,550	150	77	IN	SMC Team Echo
KC9EE	10,988	164	67	IL	SMC Team Delta
K9SE	10,945	199	55	IN	
WA9LEY	9,856	154	64	IL	Metro Shooters
N9VPV	9,152	143	64	IL	SMC Team Foxtrot
N9SJ	9,063	159	57	IL	
N9LQ	8,892	156	57	IL	SMC Team Foxtrot
KK9DX	8,673	147	59	IL	SMC Team Echo
N9WEW	8,415	153	55	IL	SMC Team Foxtrot
KB9OWD	8,220	137	60	WI	
N9JF	7,906	134	59	IL	SMC Team Hotel
N9EP	7,784	139	56	IL	
N9IO	7,560	135	56	IL	SMCTeam Kilo
AI9T	7,500	125	60	IL	SMC Team Charlie
N9LAH	7,100	142	50	IL	Metro Shooters
KE0L	6,670	115	58	IL	SMC Team Delta
W9XT	6,664	119	56	WI	SMC Team Golf
N9WG	6,555	115	57	IN	
K9DUR	6,201	117	53	IN	SMC Team India
K9NW	5,886	109	54	IN	I Guana Go To The TTY Bar
K9CS	5,871	103	57	IL	
K9IJ	5,610	102	55	IL	SMCTeam Kilo
KW9U	5,565	105	53	IL	SMC Team Echo
W9AKS	5,300	106	50	WI	
WT2P	5,148	99	52	IL	Flying Iguanas
W9IZ	4,950	110	45	IN	Flying Iguanas
K9GWS	4,752	99	48	IL	
NT9E	4,732	91	52	IL	SMC Team Charlie
W9RE	4,608	96	48	IN	SMC Team India
K9LC	4,592	112	41	IL	SMC Team Hotel
WB8RFB	4,472	86	52	IL	SMC Team India
WI9WI	4,171	97	43	WI	ORANGE SQUEEZERS-2
WB9DAR	3,854	94	41	IL	
N4TZ	3,780	90	42	IN	
N7MB	3,237	83	39	IL	
K9ZO	3,124	71	44	IL	
N9UDO	3,081	79	39	WI	
W9IU	3,066	73	42	IN	
N9KJU	3,066	73	42	IL	
KC9JBU	3,024	72	42	IL	
N9DR	2,850	75	38	IN	SMCTeam Kilo
K9MMS	2,754	81	34	IL	SMC Team Juliett
*AI9K	2,665	65	41	IL	
WE9V	2,409	73	33	WI	SMC Team Bravo
NR9K	2,244	66	34	IL	
W9SE	2,240	64	35	IL	
AJ9C	2,046	62	33	IN	Flying Iguanas
*KB9DVC	1,980	60	33	IL	
NJ9R	1,846	71	26	IL	SMC Team Golf
K9PG	1,564	46	34	IL	I Guana Go To The TTY Bar
W9PA	1,242	46	27	IN	
KR9U	1,222	47	26	IN	
AA5UK	1,188	44	27	IL	

KS9A	1,066	41	26	IL	
W9TAM	616	28	22	IL	
*KI9S	512	32	16	IN	Cornwall
K9SGB	480	30	16	IL	
W9LIZ	459	27	17	IL	
KC9QQ	400	25	16	IN	
N9BT	345	23	15	IL	
KC9TZO	319	29	11	WI	SM Rockets
WD8DSB	273	21	13	IN	
AF9J	228	19	12	WI	
KB9S	160	16	10	WI	
KC9PL	117	13	9	IL	
K9GY	77	11	7	IL	SMC Team Juliett
NG9R	72	9	8	IL	SMC Team Foxtrot
WO9B	63	9	7	WI	
N9TR	48	8	6	IL	
WT9U	30	6	5	IN	
WA0JTL	25	5	5	IN	
WD0T	80,496	688	117	SD	NCCC & Friends
KI6DY	72,792	674	108	KS	
N0XR (@N0NI)	71,530	622	115	IA	
W7RY	62,988	543	116	MO	
K0WA	61,904	584	106	KS	Deep Dixie CC Team Elvis
AB0S	61,739	577	107	KS	Deep Dixie CC Team Elvis
N0KQ	54,378	477	114	CO	GM Cross Country Skiers
W5AP	46,958	443	106	CO	
W0CO	41,472	384	108	CO	GM Cross Country Skiers
N0TA	41,128	424	97	CO	GM Cross Country Skiers
K0JJR	32,300	323	100	MN	
W0PC	30,720	320	96	MO	
K7MKL	28,120	296	95	MN	
AA0AW	24,854	289	86	MN	
WB9QAF	24,225	285	85	NE	
W0SD (KE0HQZ)	24,156	366	66	SD	
WS0I	22,968	264	87	KS	SMC Team Charlie
W0DC	22,185	255	87	MN	
KI0F	21,538	242	89	MN	
W7II	20,007	247	81	IA	
W0ETT	15,996	186	86	CO	GM Snowshoers
WR0H	14,592	228	64	MO	SMC Team Bravo
KF0UR	14,504	259	56	CO	GM Snowshoers
AC0E	14,256	216	66	KS	Cokan-kids
K0TC	14,235	195	73	MN	
K0TLG	12,348	196	63	MN	
WA0JZK	11,900	170	70	MO	
K0TRL	9,263	157	59	KS	
N0GOS	6,854	149	46	CO	
NX0I	6,076	196	31	MO	
KG0DX	5,876	113	52	MN	
NW0M	5,488	112	49	MO	
K6XT	5,439	111	49	CO	GM Snowshoers
*N0UR	5,300	100	53	MN	
K0TG	5,082	121	42	MN	

WORX	4,700	100	47	MN
WA0LIF	4,464	93	48	MN
N0UX	4,158	99	42	CO
W0UY	3,872	88	44	KS
K0YB	3,315	85	39	MO
K0VG	3,120	78	40	MN
W0YJT	2,613	67	39	KS
NF0N	2,048	64	32	NE
NR0L	1,652	59	28	MN
K5ZG	1,332	74	18	CO
NY0J	960	40	24	MO
KJ0P	620	31	20	MN
K0JP	608	32	19	MN
*W6GMT	520	26	20	MN
N0VRM	280	20	14	MN
KE0EJS	238	17	14	IA

Cokan-kids

VE3CX	72,168	582	124	ON
VA3DF	48,256	464	104	ON
VA7KO	40,248	387	104	BC
VE3TW	39,200	392	100	ON
VE7KW	35,568	342	104	BC
VE2FK	35,422	398	89	QC
VA7ST	29,575	325	91	BC
VE3KI	28,336	308	92	ON
VE7KAJ	22,608	314	72	BC
VE3WRL	16,250	250	65	ON
VA6RCN	11,690	167	70	AB
VA2CZ	11,623	197	59	QC
VE3SST	10,944	171	64	ON
VA7MAY (@VA7MM)	5,406	106	51	BC
VE1RSM	4,559	97	47	NS
VE3TM	4,515	105	43	ON
VE3XNS	3,854	94	41	ON
VE3FH	2,670	89	30	ON
VA3PC	2,618	77	34	ON
VE3FJ	2,263	73	31	ON
*VE3KJQ	1,539	57	27	ON
*VE3HG	527	31	17	ON
*VE3WZ	522	29	18	ON
VA3WW	517	47	11	ON
VE7BGP	400	25	16	BC
VE3AND	322	23	14	ON
VA3FN	33	11	3	ON
VE7KCY	25	5	5	BC

KP4/K6DTT	40,392	374	108	KP4
V4/W3UL	8,949	157	57	V4
HQ9X	4,972	113	44	HR
WP4MPC	621	27	23	KP4

PY2NY	16,827	213	79	DX
IK5UAN	1,029	49	21	DX
JH7RTQ	378	27	14	DX

*JR1NKN 4 2 2 DX

``*`` = QRP

Multi-Two Scores

Call Sign Score QSOs Mults QTH Operators

NE1C 120,224 884 136 MA (K1NZ, KX1X, W1KDM)
W4KZ 115,640 826 140 ME (K4NV, NN9DD, W9SN, WW4LL)
N3QE 91,800 613 150 MD (N3QE)
N5YA 83,062 698 119 TX (K5QE, K7RSM, N5YA)
W0LSD 80,041 611 131 CO (W0LSD)
K000 78,603 591 133 MD (AC3BU, K000, K3MTR, K3TBD, KB3VQC, N3DPB, WA3EKL)
KS9W 73,710 630 117 CO (KS9W)
W4MLB 69,660 645 108 FL (AF4Z, K4HWF, KE0NRY, KK4ZWC, N8KH, NB4C, W4EE, WB5ZGA)
W4TA 63,384 556 114 FL (KA4IOX, KB8ESY, KP2N, KR4U, N2ESP, N4GD, NY4I, VE3XD, WA4EEZ)
W3GH 60,495 545 111 PA (KC3EJC, W3CDW, WC3O)
AB3CV 45,747 391 117 MD (AB3CV)
W9AV 39,165 373 105 WI (W9AV)
N7NM 38,976 336 116 WA (N7NM)
W9JWC 35,638 346 103 IL (KD9LSV, W9JWC, W9YES)
N3HEE 32,421 321 101 MD (N3HEE)
KN5S 28,688 326 88 TX (K5WW)
K8BF 27,412 308 89 OH (AC8QG, K8IV, KB8AMZ, KB8TUY, KE8EGF, KE8JUZ, N8QE, W8AHC, W8PT, WA8US)
W4TM 26,664 303 88 GA (W4TM)
K6PV 25,872 294 88 CA (AI6DF, K6NT, N6HE)
K3CCR 23,436 279 84 MD (N3UM, W3GB)
W9SMC 23,108 212 109 IL (AB9YC)
N5HC 22,468 274 82 NM (N5HC)
NR4M 20,335 245 83 VA (NR4M)
K5VIP 20,025 225 89 VA (K5VIP)
K4IU 19,575 225 87 MN (K4IU)
N6DW 18,924 228 83 VA (N6DW)
K4XY 17,784 234 76 VA (AK4AO, KA4CDN, KJ4PZP, KK4RAW, KM4RDS, KN4RNI, W1HB, W2WCM, WA1EM, WA1HB)
W1IE 17,028 198 86 VA (W1IE)
W4BCG 15,343 229 67 TN (W4BCG)
KD8FS 15,318 207 74 MI (KD8FS)
N4ETC 15,096 222 68 NC (N4ETC)
K3MD 13,938 202 69 PA (K3MD)
KS4Q 12,802 173 74 VA (KS4Q)
KB1W 12,545 193 65 MA (KB1W)
W0DB 11,032 197 56 NE (W0DB)
WB9TFH 10,836 172 63 WI (WB9TFH)
W9OA 10,098 153 66 IL (W9OA)
K2MK 9,966 151 66 FL (K2MK)
VE2CSM 9,639 153 63 QC (VE2CSM)
AC6ZM 9,184 164 56 TN (AC6ZM)
K1RQ 9,050 181 50 NY (K1RQ, NJ1F)
W0MB 7,802 166 47 MO (W0MB)
WB9TFF 7,020 135 52 WI (WB9TFF)
WK1J 6,555 115 57 NH (WK1J)
W3OU 6,480 120 54 MD (W3OU)

WM3T 6,477 127 51 VA	(WM3T)
W7CO 6,307 119 53 OR	(W7CO)
N5EKW 5,883 111 53 TX	(N5EKW)
W3LL 5,580 93 60 MD	(W3LL)
W3CB 5,559 109 51 MD	(W3CB)
WB0N 4,802 98 49 MN	(WB0N)
W4VIC 4,656 97 48 VA	(W4VIC)
WD4LBR 4,446 114 39 VA	(WD4LBR)
W2BAP 3,978 102 39 PA	(W2BAP)
N8VV 3,960 88 45 OH	(N8VV)
VE7FO 3,675 75 49 BC	(VA7GI,VE7FO)
VA7XH 3,534 93 38 BC	(VA7XH,VE7SSD)
AD9I 2,736 72 38 IL	(AD9I)
KF8MZ 2,442 66 37 OH	(KF8MZ)
W6IA 2,432 64 38 CA	(W6IA)
VE3NNT 2,232 72 31 ON	(VE3NNT)
AK6A 1,764 63 28 OR	(AK6A)
W3GVX 1,711 59 29 MD	(W3GVX)
AF2T 1,539 57 27 VA	(AF2T)
W4EE 1,488 48 31 FL	(W4EE)
K9IU 1,377 51 27 IN	(K7JOE,K9IU)
W8EH 1,200 50 24 OH	(W8EH)
N3RM 1,008 42 24 PA	(N3RM)
W4UT 988 38 26 TN	(W4UT)
N5KB 936 52 18 IA	(N5KB)
KA8G 918 51 18 OH	(KA8G)
W2SZ 722 38 19 NY	(KB6EE)
WA9IVH 540 27 20 IL	(WA9IVH)
K8MU 481 37 13 MI	(K8MU)
N4LF 374 22 17 FL	(N4LF)
WQ3U 338 26 13 OR	(WQ3U)
KC7SDA 338 26 13 WA	(KC7SDA,KJ7CBZ)
N9ID 240 20 12 IN	(N9ID)
ND3D 176 16 11 MD	(KB3IKC,ND3D)
K5LGX 136 17 8 TX	(K5LGX)
WA4IPU 132 12 11 FL	(WA4IPU)
KS4X 112 14 8 TN	(KS4X)
AA0YY 108 12 9 MO	(AA0YY)
WN8Y 25 5 5 TN	(WN8Y)
KB2URI 9 3 3 NY	(KB2URI)

Check Logs:

AA0AI, AC0PP, AD7XG, K5MM, K7HPN, KE1F, KE8Y, KM4ALP, N0LEF, NA1LZ, W3RGA,
W4JAM, W4UEF, W6MOB, WA0BSW, WA8RR, WM0L, WN3I, YC4FIK
