

Results: North American QSO Party, RTTY — February 2023

For the February running of the North American QSO Party (NAQP) RTTY, many locations experienced cold and snowy weather — even California! Ten meters was open and was the place to start the contest. Several operators made more than 200 contacts on 10. Most operators reported 15 through 40 to be in good condition, but a high K index later in the day made 80 difficult. Eleven stations reported more than 1,000 QSOs, so there was plenty of activity.

Single-Operator

Single-Operator was won by Mitch, K7RL, in Washington, repeating his February 2022 win. Angel, WP3TT, came in second, with great planning and an excellent location. Also

topping 1,000 QSOs were ACØC, ND7K (W9KKN), and K7RAT. Manitoba, Canada, was on the air, thanks to Shelley, KØMKL/VE4, at the new VA4JP location. N5EE and W9ADN reported this was their “first RTTY contest!” Congratulations on overcoming the technical challenges, and we hope to see you again. Reported DX included Italy, Bulgaria, Hungary, England, Wales, Spain, Lesotho, Brazil, Panama, and Argentina.

Single-Operator Assisted

Coming out on top in Single-Operator Assisted was repeat winner Bud, AA3B, with more than 1,000 QSOs and a very low error rate. He also raised the Assisted score record. Nipping at his heels were some of the



NN6U/mm, operating from the deck of a cruise ship. [NN6U photo]

Single-Operator Top 10

Call Sign	Score	QSOs	Mults	80	40	20	15	10
K7RL	269,830	1210	223	112/36	265/51	250/46	316/51	267/39
WP3TT	262,890	1143	230	71/28	210/47	232/51	304/54	326/50
ACØC	238,865	1111	215	155/39	271/50	375/52	217/49	93/25
ND7K (W9KKN)	238,260	1045	228	103/35	218/46	210/52	304/52	210/43
K7RAT	223,437	1049	213	77/31	186/43	227/46	292/43	267/50
K4ZW	158,956	811	196	142/38	222/48	235/47	117/36	95/27
NØAT	153,270	786	195	193/46	197/53	190/45	145/35	61/16
K7SV	144,177	771	187	49/24	283/45	250/53	124/39	65/26
KTØW	142,800	816	175	119/32	149/39	245/47	217/38	86/19
NG7M	136,915	695	197	67/30	204/50	106/38	148/44	170/35

Single-Operator QRP Top 5

Call Sign	Score	QSOs	Mults	80	40	20	15	10
KO1H	36,036	286	126	39/23	75/27	65/31	85/34	22/11
K4XL	26,892	249	108	30/15	129/43	43/23	22/16	25/11
AA5KD	15,180	165	92	12/9	85/34	29/23	25/18	14/8
NK4O	12,495	147	85	1/1	61/28	22/16	21/17	42/23
N8URE	8,646	131	66	5/5	22/12	63/28	24/13	17/8

Single-Operator Assisted Top 10

Call Sign	Score	QSOs	Mults	80	40	20	15	10
AA3B	257,176	1054	244	190/48	331/55	253/52	175/54	105/35
WD6T (@N6RO)	235,161	901	261	107/46	209/54	182/54	225/55	178/52
WØLSD	225,504	1044	216	77/39	250/48	282/50	236/43	199/36
K3MM	200,376	828	242	141/45	227/55	200/53	179/53	81/36
K6LL	190,722	798	239	54/39	190/52	204/49	178/53	172/46
N4ZZ	168,480	810	208	156/46	322/54	251/51	59/41	22/16
NØXR (@NØNI)	164,436	852	193	142/44	166/48	269/49	227/38	48/14
WT9U	154,269	843	183	171/40	289/50	209/48	115/29	59/16
AD4EB	151,938	734	207	165/44	206/53	225/54	99/41	39/15
N6IE	150,306	611	246	76/41	160/52	155/53	106/54	114/46

highly appreciated “usual suspects” — WD6T, WØLSD, K3MM, and K6LL. The Assisted categories had one-third of the participants. Operating Assisted seems to provide about 10% more multipliers than “Unassisted.”

QRP

Heading the Single-Operator QRP category was John, KO1H, in Maine. Single-Operator Assisted QRP was won by Guy, N5YT, in Mississippi. Yes, John, N6HI, was on again with one-half watt, logging 14 QSOs. John,

NN6U, operated maritime mobile from the deck of a cruise ship, QRP with a loop antenna. “It was a bit chilly on the shady side of the deck,” he observed, “but I just thought of the folks on Bouvet Island and stuck it out until my laptop battery died.”

Multi-Two

The Multi-Operator, Two-Transmitter was won by Ace, NJ4P et al, following their July win with a February win. The station and operators did a terrific job. Several M2 operations

swapped the lead during an exciting race on the Online Scoreboard, but NJ4P’s big numbers on 40 and 80 overcame the early lead of others on 10 and 15. Snow and wind turned the 80-meter four-square into a “three-square” at K6MTU, used by the K6UFO group.

Team Competition

Our Top Team, SWACC #1, had four out of five members in the Assisted category, setting a new Team scoring record. A count of 40 teams

Single-Operator Assisted QRP Top 5

Call Sign	Score	QSOs	Mults	80	40	20	15	10
N5YT	16,896	192	88	46/25	95/37	44/23	7/3	0/0
NØUR	15,920	199	80	9/8	0/0	65/29	90/31	35/12
KD9NYYE	9,720	120	81	6/5	32/20	40/27	23/17	19/12
WQ6X	2,788	68	41	2/1	38/21	21/12	7/7	0/0
VE3JZT	74431	24	16/11	13/12	2/1	0/0	0/0	

Multi-Two Scores

Call Sign	Score	QSOs	Mults	80	40	20	15	10
NJ4P	265,408	1144	232	303/52	474/57	139/51	146/46	82/26
K6UFO (@K6MTU)	262,812	1086	242	51/33	257/55	261/52	298/55	219/47
NE1C (@K1TTT)	258,362	1046	247	195/45	299/55	196/52	207/53	149/42

Team Scores

1. SWACC #1

AA3B	257,176
ND7K	238,260
K3MM	200,376
K6LL	190,722
N4ZZ	168,480
Total	1,055,014

2. SMC All Shook Up

WT9U	154,269
K9CT	144,400
KD9MS	136,136
K9WX	129,960
K9NR	98,820
Total	663,585

3. The Borg

ACC	238,865
NG7M	136,915
W7RY	114,048
N7WY	95,700
KØAP	34,254
Total	619,782

Team

- Deep Dixie CC Team Elvis
- SCCC
- NCCC Team #1
- GM Rocky Mountaineers
- SMC Blue Suede Shoes
- SWACC #2
- FCG-1
- Deep Dixie CC Team Magnolia
- KCG
- TCG Spaces
- AOCC BANDITOS
- Shenandoah Valley Wireless
- Digi Owls
- NCCC Team #3
- Redd Foxes
- Montana Diddlers
- NEMARC Blue Team
- Metro Rooters
- SM Rockets
- NCCC Team #2
- SMC Hound Dog
- TCG Marks
- GM WY-CO-NE
- Deep Dixie CC Team Steamboat
- I-guana go to the TTY Bar
- Short Lived Efforts
- Metro Howlers
- NEMARC Red Team
- Metro Yelpers
- Raiders of the MSOE ARC
- NPARC RTTYSnitchers
- FCG-2
- FCG-3
- TDXS
- NCCC Team #4
- KCG #2
- CO-KAN KIDS

Operators

- K7RL, ABØS, NØTA, KT4Q
- K7RAT, N6WT, AA2IL, KF6RY, WQ6X
- N6IE, AJ6V, KA6BIM, WK6I
- WØLSD, KFØUR, AD1C
- K9WO, WB8BZK, NXØI, W9MR, AI9T
- NØXR, K4ZW, W4CQE
- W1AW/4, N4TB, NN4NN, K4SBZ, KT3T
- WP3TT, KØWA, N5EE
- ND4Y, KE4KY, KM4FO, W4LC, AB4IQ
- AD4EB, AA4DD, K1GU, W4BCG
- K7WP, KC7V, NY7N, N1JM
- W4PUJW, N5SMQ, AD4TJ, K4PZC
- W2JV, KS2G, AH2O, N2YBB
- N3RC, W6EU, K6NV, W6RKC, K6ELE
- N3FR, KG4IGC, KS4YX, K7OM
- KTØP, KJ9C, WN7Y, N9RV
- WC3N, AK3B, N3BD, K3AK, K3TEF
- W9PDS, W9ILY, N9TK, K9GA
- AA9L, KC9TZO, N7XS, KG7VIZ, NØIMJ
- K6GHA, WU7W, WU6X
- N9XX, WI9WI, KYØQ, K9DUR, KKØU
- N9TF, WØAG, AF4T, K3FH
- NØKQ, WØZA, NNØG, WØETT
- KD5DD, AA5W, K4AFE
- WT2P, W9IZ, AJ9C, K9NW
- K5NZ, K5BG, K5MXG
- WU9D, WA9LEY
- NT3U, KE3GK, K2SHF, K2EJ, N3FJP
- K9PY, K9ZO, W9OA
- W9HHX, W9POG, KD9VVB
- KC2WUF, K2YG, K2AL
- N4FP, KQ4Y
- NK4O, KU1T
- AJ4F
- K6DGW, K6ST, NN6U/MM
- KC4WQ
- ACØE

Total

- 582,517
- 498,274
- 464,700
- 408,420
- 379,038
- 366,491
- 312,573
- 287,634
- 265,715
- 259,063
- 192,187
- 176,125
- 158,262
- 155,456
- 150,996
- 150,776
- 149,066
- 144,526
- 141,318
- 136,479
- 106,596
- 102,561
- 95,135
- 74,149
- 59,573
- 57,202
- 55,482
- 46,437
- 41,824
- 34,831
- 34,122
- 26,214
- 24,645
- 20,792
- 10,705
- 5,300
- 252

in total show that team operating has become very popular. Thank you to the clubs and individual team organizers.

North American Collegiate Championship

College stations operating in the NACC were W4ODU at Old Dominion University, and K7UAZ at University of Arizona. Well done!

Special appreciation to the Alaskan, Hawaiian, and Canadian operators who overcame time differences and winter conditions to provide their multipliers. Certificates are available on-line at ncj.com. Thanks to N6TR and WA7BNM for preparing our scores, and to Icom America for sponsoring our awards.

The next NAQP RTTY will be on Saturday, July 15, 2023.



The "3-square" at the K6MTU station. [K6TD photo]

Single-Operator Scores

Call Sign	Score	QSOs	Mults	QTH	Call Sign	Score	QSOs	Mults	QTH	Call Sign	Score	QSOs	Mults	QTH
NG1M	106,875	625	171	RI	K2DD	2,795	65	43	NJ	K4MI	40,005	315	127	VA
W1QK	102,942	602	171	CT	WA2DE	2,387	77	31	NJ	AD4TJ	35,406	281	126	VA
AE1P	52,400	400	131	NH	KA2AEY	1,664	52	32	NY	WA3LXD	35,343	297	119	FL
WA1LAD	43,344	344	126	RI	N2YBB	1,656	46	36	NY	K1GU	32,634	259	126	TN
*KO1H	36,036	286	126	ME	KA2PBT	1,508	58	26	NJ	W0AG	30,464	256	119	TN
K1BZ	31,872	249	128	ME	K2OLF	825	33	25	NY	KS3H	30,120	251	120	VA
AF1R	30,464	256	119	MA	WA2VIU	703	37	19	NY	KS4YX	27,144	261	104	SC
W1DYJ	25,760	230	112	MA	ND2K	105	15	7	NJ	*K4XL	26,892	249	108	VA
KC1RET	25,380	235	108	MA	AC2ZZ	42	7	6	NJ	W4UK	24,948	308	81	SC
N1DID	21,708	201	108	CT	KD2KEH	25	5	5	NY	A14WW	24,750	250	99	FL
KA1C	20,099	199	101	ME	K3RWN	105,011	607	173	PA	W4LC	24,745	245	101	KY
W1WIM (WA1RF)	9,176	124	74	MA	N3FR	72,816	492	148	PA	K8FC	23,940	228	105	FL
K5ZD	7,482	129	58	MA	WC3N	60,776	428	142	MD	W4ODU	23,661	239	99	VA
KS1J	6,655	121	55	RI	AK3B	36,424	314	116	MD	N4CF	23,217	213	109	VA
K1SM	5,886	109	54	MA	WC3O	25,833	237	109	PA	KW4J	20,832	217	96	AL
KB1BCT	5,580	90	62	RI	4U1WB (AJ3M)	24,108	287	84	DC	N6DW	20,100	201	100	VA
KB1GKN	2,788	68	41	NH	KC3JNW	23,128	236	98	PA	K4FTO	19,982	194	103	VA
K1XS	2,072	56	37	CT	N3BD	22,140	205	108	MD	K4HXM	18,832	214	88	VA
NW2P	1,760	55	32	ME	K3AK	21,780	220	99	MD	AB4IQ	18,746	206	91	KY
N1AM	1,666	49	34	MA	WA3ZSC	18,612	198	94	PA	W4IOD	16,928	184	92	KY
W2NR	1,242	46	27	NH	KC3SDJ	17,202	183	94	PA	K7OM	16,320	170	96	SC
N1RDN	1,230	41	30	MA	KE3GK	15,960	190	84	MD	W4YVA	14,758	157	94	VA
KM1NDY	1,215	45	27	MA	N3MLB	14,850	165	90	PA	W4UEF	14,405	215	67	NC
W1ZFG	1,188	36	33	CT	N3HRO	12,798	158	81	PA	K4WI	13,090	187	70	AL
N1GDD	1,144	52	22	NH	N1EK	11,259	139	81	MD	K4SBZ	12,880	140	92	FL
KQ4Y	792	33	24	MA	WN3F	9,975	133	75	DC	NF1T	12,512	136	92	FL
WA1YGT	260	20	13	ME	*N8URE	8,646	131	66	MD	*NK4O	12,495	147	85	FL
					K3TEF	7,946	137	58	PA	KQ3K	12,264	146	84	FL
K2DFC	73,164	469	156	NJ	K2EJ	6,615	105	63	MD	N4KGL	11,900	140	85	AL
AA2EQ	72,960	480	152	NY	KC3ODW	5,100	85	60	MD	K4CC	11,610	135	86	FL
KS2G	52,170	370	141	NY	N3JNX	4,000	80	50	PA	W4BCG	11,534	146	79	TN
AH2O	43,956	297	148	NY	W3OFD	3,864	84	46	PA	NN4NT	9,900	150	66	AL
WB2COY	30,475	265	115	NY	N3WMC	3,504	73	48	PA	KT6D	9,425	145	65	NC
AD2BO	28,865	251	115	NY	N2OMC	3,120	65	48	MD	KU4V	8,127	129	63	NC
KC2WUF	25,506	234	109	NJ	KE3ZT	200	20	10	PA	KA3MTT	8,050	161	50	KY
AG2AA	21,008	202	104	NY	WA3TD	195	15	13	PA	N8AID	5,820	97	60	VA
KB2DSR	19,107	193	99	NY						K4EES	5,300	106	50	AL
AC2RL	13,630	145	94	NY	K4ZW	158,956	811	196	VA	KC4WQ	5,300	106	50	KY
AC2XC	10,816	169	64	NY	K7SV	144,177	771	187	VA	W4GHV	5,130	95	54	NC
WB2NVR	9,636	132	73	NY	N4TB	104,650	575	182	FL	N4QI	4,732	91	52	SC
K2UA	8,550	171	50	NY	KT4Q	86,526	506	171	NC	KO4PRE	4,644	86	54	VA
NS2N	8,211	119	69	NY	W4PJW	72,488	442	164	VA	K4PZC	4,056	78	52	VA
K3WHD	6,324	102	62	NY	N5SMQ	64,175	425	151	VA	KS4X	3,920	70	56	TN
*K2YG	5,459	103	53	NJ	AA4DD	62,957	401	157	TN	KO4BWN	3,871	79	49	GA
KG2F	4,850	97	50	NJ	KM4FO	54,096	392	138	KY	AA2MA	3,700	100	37	AL
KR2D	4,752	88	54	NJ	W4CQE	43,099	329	131	TN	K4YCR	2,847	73	39	VA
KA2D	3,944	116	34	NY	NN4NN (K3SV)	41,796	324	129	FL	KO4HXC	2,301	59	39	VA
K2AL	3,157	77	41	NJ	AA4LR	40,158	291	138	GA	K1NA	2,232	72	31	AL
										W8XC	2,226	53	42	GA

HI3K	8,664	228	38	HI
WP3E (KP3B)	828	36	23	KP4
PY5AMF	12,264	146	84	DX
PV2K (PY2KNK)	10,787	161	67	DX
LU5DF	2,210	65	34	DX
IT9RZU	1,595	55	29	DX
PY2WLM	504	24	21	DX
PU1JSV	357	21	17	DX
*QRP				

Selected Soapbox from 3830scores.com (Thanks to Bruce, WA7BNM)

Missed 20 Meters while clearing snow from our driveway. — *WB6JJJ*

Just got a new puppy, so time was limited. — *KI6DY*

Something flaky is going on. Now to find it. — *K1GU*

It was good to contact "The Old Man" himself: W1AW/4 Hiram on vacation in FL. — *W1DYJ*

Multi-Two Scores

Call Sign	Score	QSOs	Mults	QTH	Operators
NJ4P	265,408	1144	232	TN	NR4L, WV4P, NN5SS
K6UFO (@K6MTU)	262,812	1086	242	CA	ND2T, K6UFO, W0YK
NE1C (@K1TTT)	258,362	1046	247	MA	K1NZ, K1TTT, K2IW
AG4TT	244,417	1049	233	NC	N4GU, NR4O, W4BBT, N4NTO
NA4DA	180,978	834	217	FL	NA4DA, KN4RIC
W5WZ	169,074	837	202	LA	W5WZ, WM5H, KD5YS, KK5BS
NW8S	169,048	904	187	OH	KB8O, AB8M, NQ8O
K3GP	154,035	815	189	OH	K3GP, K8IV, W8PT
WT0DX	122,642	689	178	CO	WT0DX, N00T
K3CCR	122,486	673	182	MD	N3UM, W5MPB
K3AJ	119,439	577	207	MD	K3AJ, ND3D, N8IVN
WA1F	78,240	489	160	FL	WA1F, WA1S
KD0EZS	61,040	436	140	KS	KD0EZS, AC0E, K5ZG
KD9V	50,760	360	141	IN	KD9V, KK9V
WB9TFH	42,927	349	123	WI	WB9TFH, WB9TF
K4XY	16,471	181	91	VA	AK4AO, K4EWR, W2WCM, KN4JJC, KM4RDS
					W3CHB, KQ4CMA, KM4HZF, N3RTW, KD2IBT W4AWM, WB0POH, KO4CMK, KN4QHZ
K3YLW	16,356	188	87	MD	KA2JAI, K3YLW
K7UAZ	480	30	16	AZ	K7UAZ

Check Logs: AB4SF, GW0A, HP1ELV, K0JJR, K1VW, K2QB, K5VG, K5YAC, K9QJS, KC2IEB, LU5OM, LZ1YF, N7XCZ, NA6JD, NI8Z, VE3NNT, W3FIZ, W3SA, W7CXX, WA7YAZ, WO4O

Jones, continued from p. 26

VHF-UHF Contesting!

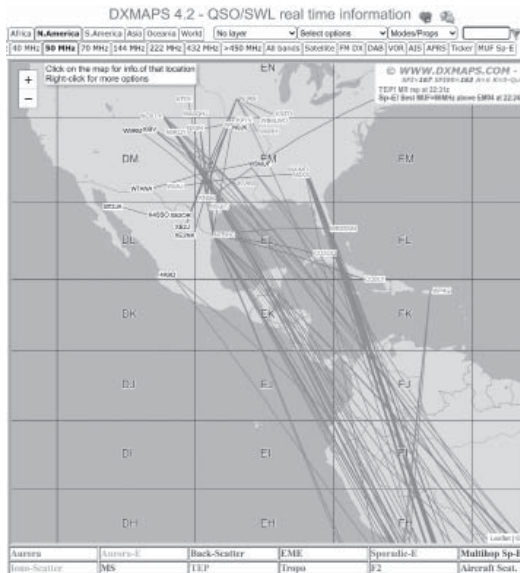
started. Move the antenna some east and west of north to pick up stations farther away. The aurora curtain is dynamic and changes from one minute to the next. Signals propagated via aurora often have a buzz or whooshing sound. A caveat with aurora: FT8 will not work. The Doppler shift from aurora usually prevents FT8 signals from decoding. I found that out the hard way during the big April aurora. I could see signals on FT8 but no decodes. I copied many people on 6-meter CW via aurora.

So, old-school CW is best, followed by SSB for aurora. Some ops have made MSK144 aurora contacts. The new *WSJT-X* Q65-30C mode works fairly well for aurora. It tolerates the Doppler shift better. Aurora E_s can take place as well. The tones are clear. Aurora E_s are usually single hop, i.e., about 2,000 kilometers range, but sometimes farther. This propagation is most common on 6 meters but has also shown up on 144 and 222 MHz. In past Auroras, Europe has been worked from the northeastern states and from Alaska to the midwest. The best time is toward local midnight and often as an aurora is breaking up.

The September Contest is favorable for aurora as it occurs near the equinox. This is due to the Russell-McPherron effect. The take-home lesson is that aurora occurs more frequently due to interplanetary magnetic field geometry near the equinoxes. So, even a small CME or coronal hole wind can cause intense aurora. See "Seasonal and diurnal variation of geomagnetic activity:

Russell-McPherron effect during different IMF polarity and/or extreme solar wind conditions," <https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2012JA017845>.

I would suggest following solar activity before the contest on websites such as spaceweather.com and solarham.net the week before the contest. This can give you an idea if geomagnetic storming may take place.



DXMaps on April 17, 2023, showed the E_s-to-TEP connection to South America.