



ARRL 2023 January VHF Contest Full Results

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2023 was a typical January contest in many ways; good weather in some parts of the country, poor in others, little extended propagation, but the new analog-only categories had significant interest and complaints about the digital modes reducing activity were down.

With 898 log entries, including check logs, participation in the 2023 January VHF Contest dropped from the 2022 level of 1,175 and the 2021 level of 1,198. This is probably due to the Covid bounce that all contests received due to hams staying home and contesting. The number of submitted logs is up significantly over the pre-2018 levels, though, in large part due to the widespread use of the WSJT modes.



K8AEP/R on High Knob, VA in heavy fog, snow, and sleet. What else is new for the January contest? [Donna Moore, K8AEP, photo]

Propagation was pretty much flat, with some scattered Sporadic E (Es) openings. There were a few reports of F2 propagation to the Caribbean and South America, but those openings were very localized and of short duration. Most of these openings were exploited by stations using the FT8 mode which allows one to capitalize on short

and/or variable Es openings, the purpose for which it was intended. Watching the FT8 waterfall shows many openings of limited duration, often minutes or less. Prior to the introduction of FT8, it was hard to make use of these short openings, particularly for those in the single op category. Times have changed.

The impact of the use of the WSJT-X modes has begun to converge, and the new analog-only categories appear to have stemmed, at least for the time being, the flight from the analog modes to the digital modes. FT8 operators are learning how to QSY stations they work on the digital modes to other bands and modes and the new protocol for this has helped. The number of digital QSOs being made on 2M and up is increasing over the early days of WSJT-X, which has addressed, in part, the complaints that it was difficult to QSY stations from 6M WSJT-X to higher bands and/or modes. The higher band digital activity has grown as a result of this.

Although overall record-setting performances are usually reserved for those years when propagation is good or outstanding, the institution of the analog-only categories allowed four new national records to be set for those categories. In addition, a record was set in SO3B all-mode which would have been a new record even without the new analog-only categories. Many other records were set at the division and section level.

The North American QSO Party continues to siphon off VHF contest participants, particularly those for whom HF contests take priority. This, along with the albeit weak sporadic-E propagation being better earlier in the season, brings calls from some entrants to move the contest earlier in the year, or even into December. There is a lot to consider here, though, and shuffling the already crowded winter contest calendar is not trivial. Let your Division Contest Advisory Committee representative know your preferences.

Activity on the bands above 902 MHz continues to be low, for several reasons, but there are a lot of points and fun to be had on those bands. Admittedly, wrestling a 10 GHz dish in and out of a car in freezing temperatures is not easy, as is getting a LASER to start, but we are facing a “use it or lose it” situation on those bands. With most of the activity on those bands being during contests, it pays to get even small low power rigs on the air.



Mary, WØAAT in EN24ho woke up Saturday to ice loading on her antennas! Never a good sign, but often encountered in January. [Mary Brown, WØAAT, photo]

The Winners

Single Operator

Most of the entrants to the VHF contests are in the single operator categories. As a result, the single operator category is the bread and butter of VHF+ contesting. From the guys with a handie-talkie in the SOFM category, to portable operators, to home stations- both barefoot and high power, there is something for everyone in these categories.

Single Operator FM (SOFM)

Single Operator, FM Only	
W7IMC	3,222
VE3RWJ	1,150
KB1YNT	570
KG5UNK	343
N1TEN	294
VA2DG	246
AF6GM	205
N6DRE	186
KN6FKQ	132
VA2WDW	84

While the SOFM category was envisioned as an opportunity for hams, particularly Technician class without weak signal capabilities, to participate in contesting, it has been pursued by some as an end unto itself. This FM activity is helped by the SOP operators, many of whom are also operating simultaneously SOTA or POTA activations, who mix modes to give out QSOs on more bands.

W7IMC took first place in only his second VHF contest competition by a good margin over last year’s winner, VE3RWJ. W7IMC used all four bands; those 222 MHz QSOs and points help. VE3RWJ operated 3 bands, working 10 grids in the process. KB1YNT worked 10 grids on three bands as well.

The SOFM category is analog-only by definition.



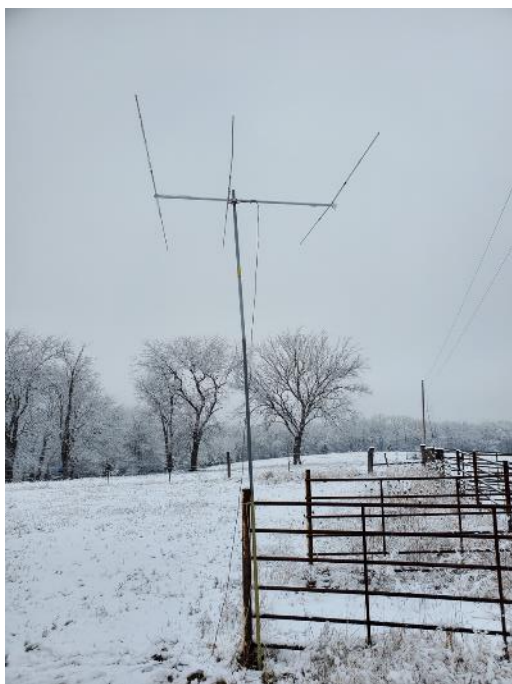
W7IMC’s effective SOFM antenna farm worked into the adjacent grids in only his second entry into VHF contesting, demonstrating that one can have fun in the VHF Contests without a big commitment to antennas. [Scott Burgess, W7IMC, photo]

Single Operator Portable (SOP)

This year the SOP category is split in two, the traditional SOP and the analog-only SOP, SOP-ALG.

Single Operator, Portable		Single Operator, Portable Analog-only	
AB4DX	2,964	N3YMS	16,995
WX3P	798	WA7JTM	4,375
WK9U	725	KF7NP	2,159
W1AW/Ø (NØJK, op)	640	AA6XA	1,820
NØSUW	360	WB2AMU	481
W8TL	312	N6ARA	280
AA1X	287	KQ2RP	180
W3FA	189	KØJJW	168
KD9NYE	130	KØNR	168
WB9AYW	78	N2MAK	160

The SOP category requires hardy souls to go out in the field in January. Ops in the Southern tiers of states have an advantage here, but there are dedicated ops who go out in the field in the northern grids as well.



NØJK obtained permission to operate as W1AW/Ø in the contest as a part of the ARRL Volunteers on the Air event. This is a rare appearance of W1AW in a VHF contest! [Jon Jones, NØJK Photo]

With the perennial SOP high scorer WA7JTM moving into the SOP-ALG category, AB4DX took the honors here, operating with four bands. WX3P finished second

with three bands. WK9U finished third, operating 6M only, as did W1AW/Ø, operated by NØJK. NØJK was using the W1AW call in the special event and was given special permission to operate it during the contest. The slippery roads Jon encountered on Sunday morning were slightly offset by a good Es opening. NØSUW took fifth place operating 6M only.



The W1AW/Ø call generated a lot of interest as shown in this WSJT-X screen shot. The call also worked some propagation magic with Jon working some F₂ in addition to Es. [Jon Jones, NØJK, photo]

The analog-only SOP category is new this year. First place, by a large margin, was won by N3YMS, who is more often heard operating the multi-op station W3CXX. N3YMS made the transition nicely to both single op and low power categories. Perennial top SOP finisher WA7JTM, is a diehard analog operator and finished second, ahead of all of the SOP mixed mode ops. His score was diminished a bit this year by the lack of other SOP ops in AZ, but Peter put in a solid 6 band effort, as did N3YMS. More bands and knowing how to use them is important for successful contest operation, and particularly at low power without digital options. KF7NP finished third on a five-band effort. AA6XA finished fourth with an effort that combined activating SOTA peak Loma Alta (W6/NC-350) with the VHF contest effort. WB2AMU operated under abnormally mild weather conditions on Long Island to finish fifth.

Single Operator 3 Band (SO3B)

Single Operator, 3 Band		Single Operator, 3 Band Analog-Only	
N3YY	55,720	N7QOZ	2,457
KO9A	40,365	K2GMY	1,292
W5TRL	20,008	K7CX	1,290
KK4MA	15,900	WB7FJG	500
KE3JP	14,484	KC3LEC	440
N3ALN	10,679	W7JMP	440
NE2U	8,106	N2KW	330
WDØBGZ	8,004	W2FDJ	324
K3RLW	6,732	N1ZN	300
K6KLY	5,950	W1DYJ	294

The SO3B was originally envisioned as an entry level category for the operators with the ubiquitous “DC-to-Daylight” rigs capable of operation on three VHF bands. Having a taste of the thrill of competition, it was assumed that these ops would move up to categories with more bands. Over the years it has become a competitive category in and of itself though, with both positive and negative consequences. This year, the category has been split into mixed and analog-only categories, but participation is still high.



N3YY set up these secondary Yagis to complement his already impressive antenna array. Having the instantaneous choice of antennas pointed in different directions is a big advantage, especially in populated areas. [Steven Adel, N3YY, photo]

At N3YY’s mountaintop retreat, the snow and ice parted on Saturday morning and stayed that way throughout the contest to allow N3YY to take this category handily. KO9A had a fun, frustrating, and interesting contest on his way to finishing second. He had a little bit of all the propagation modes including tropo on Saturday, outstanding meteors on both 6M and 2M Sunday morning, a scattering of Sunday morning Es and probable F2 or double-hop Es to PJ4. W5TRL took third place with 215 QSOs and 82 multipliers. KK4MA

finished a close fourth with 171 QSOs and 110 multipliers.

The SO3B-ALG is also new this year with fewer entries than for the mixed-mode category. It will take a few years for the analog-only categories to settle out, but it appears that for SO3B, the analog entries are lagging the mixed category.

N7QOZ had a modest effort to take first place. K2GMY finished second, narrowly edging out K7CX on the basis of more multipliers, despite making fewer QSOs.

Single Operator Low Power (SOLP)

Single Operator, Low Power		Single Operator, Low Power Analog-Only	
K2DRH	77,714	AF1T	64,602
N3RG	65,208	K3TUF	28,853
N2WK	59,126	VE3DS	22,218
NR2C	53,728	KA3FQS	13,530
WA3NUF	40,128	WB2JAY	8,740
KA2ENE	35,581	N7RK	7,843
WA3GFZ	34,036	WS3C	5,868
K9MU	33,708	AC1J	5,859
N2SCJ	24,888	W4RAA	4,964
NF3R	21,584	K6MI	4,590

K2DRH is a familiar call on top of the SOLP category and this year is no different. Bob overcame a dead 2M transverter just days before the contest by reviving a junk box transverter and making the necessary tweaks to have good enough stability to operate the WSJT-X modes. Bob made the most of the mixed mode category, making contacts with no less than six different analog and digital modes!

N3RG finished second, making up, in some part, the difference with operation from nine bands. N2WK overcame lots of issues, which is not unexpected when running 10 bands, to finish a strong third. NR2C made the most of his first VHF+ contest with nine bands to finish fourth. WA3NUF finished fifth on the strength of a 10-band effort.

The Single Operator Low Power Analog-Only category is also new this year, with a familiar call at the top – AF1T. Dale overcame snow-encrusted antennas and low 5 GHz power to take first place by nearly 20,000 points, largely on the strength of a 14-band effort, even with low 5 GHz power. K3TUF, another call familiar to the SOLP world finished second operating his remote home station

in EL88, from his winter home FN10, proving that there is a way to avoid problems with weather in the January contest. VE3DS overcame a late start to finish third. KA3FQS finished fourth on the strength of a nine-band effort, including a LASER contact. WB2JAY finished fifth while dealing with apparent issues the town has with his antenna. N7RK finished a close sixth from AZ.

Single-Operator High Power

K1TEO took first place in the SOHP category by overcoming noise issues on 6 and 2, which like for many of us just keep getting worse and worse. Jeff had some weak Es openings, which partially offset the low activity on the microwave bands. N2JMH, operating the second incarnation of his VHF+ contest station, finished in second. It is not often that new stuff works well in the first contest shakedown. N1AV finished third with a strong showing from Arizona. Jay was helped by the increasing rover activity in the southwest, much of which was spurred on by Jay. It was a close race for fourth place, K2TER edging out KE8FD on the strength of his ten-band effort benefiting from the higher QSO points on those bands.

Single Operator, High Power		Single Operator, High Power Analog-Only	
K1TEO	294,140	WZ1V	49,536
N2JMH	209,088	VE3ZV	47,530
N1AV	104,299	W3IP	26,714
K2TER	58,667	W2FU	24,684
KE8FD	58,512	W2KV	18,265
W1FKF	51,200	WØGHZ	11,856
N4QWZ	48,984	WA1PBU	6,864
WA3DRC	39,425	WB2RVX	6,440
WA2OMY	35,309	W1GHZ	5,760
K1KG	34,720	K1TR	5,406

WZ1V, on his way to first place, noted that there was increased local activity on 222 and 1296 MHz, which helped his score. VE3ZV, close behind in second place, worked several stations on 10 GHz with snow scatter out his living room window. Snow scatter is a uniquely winter propagation phenomenon. W3IP missed some prime time operating due to a funeral and some IT issues on his way to finishing third. W2FU, finished fourth operating his NY station remotely from Florida. It is no small feat to keep an eight-band station up and running from more than 1000 miles away. W2KV parlayed good activity and low power line noise to finish fifth.

Multioperator

Limited Multioperator (LM)

Limited Multioperator Top Ten	
N2NT	149,898
K5QE	70,848
W2MMD	66,700
W3HZU	60,568
VE3MIS	55,753
WA3EKL	22,932
N3EXA	22,144
KE8RV	18,530
W3ZGD	18,216
WH6A	12,483

N2NT, with ops N2NC, N2NT, and WW2Y, ran away with the Limited Multioperator category by effectively and extensively working all of the four bands allowed, along with working meteor scatter, analog and digital modes, helped by some long 432 openings to the west and openings to PY/LU/CE on 6m Sunday night. This shows the power of the WSJT-X modes under marginal conditions.

K5QE, with ops KØAXX, K2EZ, K5QE, K5SAB, KA6U, KC5HOZ, KF5LKG, KI5MHB, and N5YA finished second on the strength of EME and meteor scatter-generated multipliers and contacts. Marshall has adopted a unique LM strategy in choosing to operate 1296 MHz, primarily EME, instead of 222 MHz, with the view that the increased QSO points at 1296 and the large user population and potential larger number of different grid multipliers available on 1296 MHz EME would make up for the missing 222 MHz QSOs with their lower point values.

W2MMD, with ops K2QA, KB2AYU, N3PUU, and W2MMD, finished a strong third. Thanks to a good 6M showing, W3HZU, with ops KB3RCT, KB3RFH, KC3UHB, KC3UUZ, N3AIR, N3BMX, N3CH, N3FIX, N3VQH, N3XUD, W3TWB, and WBØNDY finished fourth utilizing the same strategy as K5QE of replacing 222 MHz as one of the four bands with 1296 MHz. VE3MIS, with ops VA3CW, VA3ELE, VA3HES, VE3ACK, VE3MDX, VE3MYO, VE3NE, and VE3SVF, finished fifth with conditions “that weren't terrible, but weren't amazing either.” But VE3MIS only had to climb the 6M tower twice during the contest to free the rotator from the end stops.

Unlimited Multioperator (UM)

Top Ten, Unlimited Multioperator	
N3NGE	111,280
W4NH	70,140
N4SVC	62,699
KD2LGX	55,180
N8GA	53,280
WD9EXD	41,676
KE1LI	35,862
WØRSJ	20,740
W3RFC	8,050
W2SZ	7,614

N3NGE, operated by K3EGE and N3NGE, won the Unlimited Multioperator category operating on 10 bands, including light. W4NH with ops K4VBM, KI4US, KM4QHI, N4SDK, NX9O, W4ZST, WG8S, and WW8RR, finished second operating seven bands. N4SVC with ops K1UHF, KD4AMP, and N2CEI, finished third on the strength of a six-band effort with CW, SSB, meteor scatter, and several digital modes. KD2LGX, operated by KD2LGX and N2IK, took fourth with a seven-band effort. N8GA with ops K8DZ, KB8ZR, N8ZM, W8BFT, and WB8ART, took fifth with a solid five-band effort.



The WO1S Unlimited Multi shack in DM34oa with a long-boom 2-Meter Yagi and a two-antenna 23cm array. [John Kountz, WO1S, photo]



And inside the WO1S shack. [John Kountz, WO1S, photo]

Rover

Classic Rover (CR)

Top Ten, Classic Rover	
N7GP/R	215,137
VE3OIL/R	63,500
K2UA/R	56,056
NN3Q/R	46,626
N7DSX/R	40,920
K2ET/R	34,638
K7LSX/R	34,614
W3ICC/R	27,140
W2EV/R	19,296
KK6MC/R	16,020

N7GP continued his domination of the Classic Rover category with another first-place finish. Tom's 10-band effort was aided by the nearly ideal weather for roving in AZ, easy travel to grid convergences, and an active VHF and microwave community, including several rovers. VE3OIL put in a 13-band effort, including 122 GHz, to finish second.

K2UA marked his return to roving in VHF+ contests after a 24-year hiatus with a solid third place finish. Rus put together a solid 10-band station for the rove. NN3Q put in an 11-band effort, including light, to finish fourth. N7DSX finished fifth, also from AZ, and also enjoying the nice weather. He didn't even have to turn on the van's air conditioning! K7LSX also roved with N7DSX, giving lots of ops a second QSO under the family rule.



The K7LSX/r and N7DSX/r in DM42. The family rule, 10 band capability, and roving at a grid convergence resulted in lots of QSO points and multipliers for Phoenix area VHF/UHF contesters from this well-equipped rover. [James Duffey, KK6MC, photo]



N7GP/R made good use of his 10-band rover setup, increased VHF weak signal activity, the growing popularity of roving, and microwave activity in AZ, to win the Classic Rover category. N7GP is ex-WA8WZG, a familiar call to both VHF and HF contesters. [Thomas Whitted, N7GP, photo]

Limited Rover (LR)

Top Ten, Limited Rover	
NV4B/R	30,667
W5TN/R	29,510
KG9OV/R	27,413
KA5D/R	23,820
N6RH/R	10,920
W9YOY/R	10,450
KI5FIQ/R	10,440
AE5P/R	9,540
VE3GKT/R	9,020
KM4OZH/R	8,342

The Limited Rover category was quite competitive with the top three stations all within 10%, with the fourth and fifth place finishers not far behind. NV4B overcame some computer problems early, to take first place while activating seven grids. W5TN finished a close second, overcoming generally horrible conditions which were interrupted by a brief Es opening at the end of the contest. KG9OV roved from 8 grids to finish third with average conditions. Tweaks to the KG9OV rover since the September contest paid off. KA5D finished fourth, overcoming poor band conditions in part by roving from 10 grids. Those grid activation multipliers add up. N6RH finished fifth operating from 6 grids.





The Limited Rover station of KG9OV/R, cold and snowy on the outside, warm and comfy on the inside. [Anthony Contratto, KG9OV, photos]

Unlimited Rover (RU)

Top Ten, Unlimited Rover	
NØLD/R	69,993
K5SRT/R	66,794
KI5VZJ/R	51,156
K5ATX/R	32,452
K9JK/R	12,312
W6YX/R	11,920
K4NO/R	10,032
KCØP/R	8,880
NØHZO/R	4,640
K4CNY/R	4,148

NØLD put together a ten-grid six-band effort to take first place. He and others in Oklahoma put in a successful effort to use the RU category to train new rovers. K5SRT was a close second with a similar 10 grid effort to NØLD. KI5VZJ, an all-YL team, finished third in the RU class in their first roving effort. K5ATX finished fourth, overcoming flat conditions by making QSOs with other rovers.



Not everyone experienced snowy winter weather; NØLD/r had rainy weather in Winfield, KS. [Randall Wing, NØLD, photo]

K9JK, a familiar call within roving circles, finished fifth with an all analog, all vertical antenna effort from the “Coroverolla”. John made QSOs on 222 MHz and 902 MHz with a handie talkie, which demonstrates that one does not need sophisticated gear to activate more bands and accumulate more points.



Nick, KI5RHN, operating K5SRT/r at sundown near New Castle OK. The software is Rover Contest Logger by KG9DUK-Alex. [Nick Carpenter, KI5RHN, photo]

K5SRT took advantage of one of the Unlimited Rover intents, to encourage experimentation, to have a “virtual operator” remote in from his home location to operate the rover. I suspect that we will see more of this in the future.



“Virtual Bob”, K3NT, part of the K5SRT/r team, participating remotely from his home QTH. [Robert Kirby, K3NT, photo]

The Records

With the introduction of the analog-only competition, new records were set in each of these categories.

Overall records were set by WZ1V in the SO-ALG-HP category, AF1T in SO-ALG-LP, N3YMS in SOP-ALG, N3YY for SO3B, and N7QOZ in SO-ALG-3B.

Of particular note is the record set by N3YY in the SO3B category, mixed, so that record would have been set whether or not the analog-only category was in place.

There were numerous records set at the division and section levels.

Affiliated Club Competition

Affiliated Club Competition		
Club	Score	Entries
Unlimited		
Mt Airy VHF Radio Club	1,246,618	53
Medium		
Rochester VHF Group	683,227	24
Arizona VHF Society	430,341	13
Ontario VHF Association	230,624	20
North East Weak Signal Group	200,286	17
Society of Midwest Contesters	172,142	16
Potomac Valley Radio Club	167,281	44
Fourlanders Contest Team	88,629	6
Contest Club Ontario	86,581	10
Roadrunners Microwave Group	60,901	5
Northern Lights Radio Society	58,001	16
Pacific Northwest VHF Society	57,777	26
Yankee Clipper Contest Club	50,866	17
Kentucky Contest Group	45,959	5
Arizona Outlaws Contest Club	42,267	14
Badger Contesters	35,036	12
Michigan VHF-UHF Society	28,349	4
Frankford Radio Club	26,364	6
Florida Weak Signal Society	18,965	3
Northern California Contest Club	15,540	9
Mad River Radio Club	10,458	4
Carolina DX Association	8,440	6
South East Contest Club	8,011	4
Wayne County Amateur Radio Club	6,129	5
Minnesota Wireless Assn	4,020	8
Tennessee Contest Group	3,972	4
South Jersey Radio Assn	3,840	3
Florida Contest Group	3,308	4
Western Canada Weak Signal Assoc	1,992	3
Hudson Valley Contesters and DXers	1,712	5
Texas DX Society	1,348	4
Grand Mesa Contesters of Colorado	1,051	3
Southern California Contest Club	1,024	3

Local		
Chippewa Valley VHF Contesters	46,912	3
Stoned Monkey VHF ARC	45,356	5
Hilltop Transmitting Assn	24,500	3
Bristol (TN) ARC	5,225	3
Meriden ARC	2,916	3
Central Virginia Contest Club	1,412	3

Club activity in the VHF contests is the one thing that correlates well with VHF contest activity. In general, when club entrants are up, overall participation in the contest is up. With 40 club entries this year, the club competition remains healthy. If you contest in an area with others, and you all belong to the same club, or can join the same club, it is worthwhile for everyone to enter the club competition.

The Packrats, also known as the Mt. Airy VHF Radio Club, placed first in the Unlimited category. There isn't a lot of competition at this level in January, but the Packrats manage to put a lot of stations on the air, including rovers. The club wins, and other contest participants benefit from the increased activity.

The Rochester VHF Group finished first in the Medium category on the basis of increased microwave activity, rover activity, and a general push in the club towards VHF and microwave contesting. The Arizona VHF Society finished second with a strong showing from what can be a VHF black hole. They shine in the January contest with nice weather, active VHF snowbirds swelling the VHF population, and an easily accessible grid convergence located near a major population center. The Ontario VHF Association finished third.

In the Local club competition, there was close competition between the Chippewa Valley VHF Contesters and the Stoned Monkey VHF Amateur Radio Club, with Chippewa taking first. The Hilltop Transmitting Association took third.

General comments on the January 2023 VHF Contest

The new analog-only categories were popular. It will be interesting to see if this trend holds through the June and September contests. But, at least for now, it seems to be popular and has addressed some of the concerns about declining analog activity in the January contest.

Digital modes continue to dominate the majority of activity in the contest, with nearly 55% of all VHF contest QSOs made on the digital modes. While FT8 is

by far the most popular digital mode, those using MSK find it a great way to increase multipliers, especially when the band is flat. FT4 is a great contest mode, allowing rapid QSOs at nearly the rate available on CW, but it has been slow to take off. Give it a try. Q65, another digital mode, is effective and taking hold on the higher bands.

After a slow start on 2M, digital activity has increased on that band so that slightly over half, 54%, of QSOs on that band are made on digital modes. Digital modes have made EME QSOs available even to modest stations. The effectiveness of an EME effort can be seen by looking at 2M multipliers in the scores. Those with high numbers of 2M multipliers usually get them with EME. While you may not be able to accumulate the high numbers, with a modest station, you can probably add a few mults that you would not normally work.



The cold Minnesota winter did not stop NØSPN/R (right) from mentoring new Tech KØDMF/R and his two daughters in VHF contesting and roving. The girls were able to log and give the grid exchange. It is never too soon to start the young ones on roving. [Devin Funk, KØDMF, photo]

One good use of the January contest is to train operators in contesting without having overwhelming contest conditions. There are several ways to do this, but in 2023, there were several groups that took advantage of the Unlimited Rover category to introduce and train new operators. Let us hope this trend continues.

In what may well be a sign of things to come, AA5PR, SO3B, used the January contest to wring out his new "remote portable" station. A solar powered remote station in an easily transported trailer, John can move the remote VHF station to any grid, leave it there, and then return home to operate it when the band is open or there is activity. John, who has activated many remote grids

through roving activities, envisions this as a way to activate grids without driving to them, thereby being able to be on when the band is open. While only on 6M during this contest with only a few openings, this concept may revolutionize VHF contesting and certainly will aid in putting wanted grids on the air during non-contest periods. Nineteen stations made QSOs with John's remote in rare grid DM74 during the contest. Stay tuned!



If you worked AA5PR in the contest you worked this innovative solar powered remote portable in DM74. [John Klem, AA5PR, photo]

Log submission and checking

If you participated in the contest, even in a modest way, it is important for you to submit a log. Encourage others, especially the casual operators, to submit logs. It indicates support for the January contest and tells the ARRL contest staff and the Program Services Committee that there is significant interest in the contest and that it should be continued.

All logs are cross checked against all other logs to validate QSOs. You may find your score has decreased from what you submitted. If you are a league member, you can access your log checking report (LCR) on the ARRL web site. This will help you ascertain why your score was reduced, so that you can make an effort to improve your logging accuracy in the future.

Coordinated Roving

There were 20 rovers out of 68, or 29% of all rovers, in the January contest who participated in coordinated roving.

Coordinated roving, also known as pack roving, grid circling, grid squaring, and other names, has been around since the Rover category was formed. Basically, a group of rovers get together and agree to meet at a grid convergence or boundary and work as many possible combinations of grid/bands as they can. Depending on the number of rovers and bands that they have, the scores resulting from this activity can be quite high.

This practice was controversial when it first appeared and still is to some extent. There are several reasons for the controversial nature of this practice, and it has prompted some rules changes over the years, not all favorable, to either the rovers or other contestants.

Whatever one's opinion, the practice has become more widespread, and, it seems, gained wider acceptance within the contest community. While the complexion of coordinated roving varies from one group to another and is used for various purposes, it can have both useful and harmful attributes. I don't expect that the number of coordinated rovers will decrease in the future. Whether or not the increase is a problem is a judgement call and depends a lot on one's views of contesting.

Logs Submitted

Category	Entries
R	28
RL	29
RU	11
SOHP	174
SOLP	258
SO-ALG-HP	30
SO-ALG-LP	85
SOP	15
SOP-ALG	23
SO3B	165
SO-ALG-3B	25
SOFM	16
LM	21
UM	15
CHECKLOG	3
Total	898

Summary

The January Contest is healthy with almost 900 entries. While not at recent peak levels, likely due to people no longer being in Covid quarantine, activity is above the pre WSJT-X levels. The digital modes have gained wider acceptance, and contestants, serious and casual alike, are adjusting their operating styles to accommodate.

Activity remains low on the microwave bands. While due in some part to the winter weather, there is substantial room for growth there. The rewards are higher QSO points and additional multipliers which mean higher scores. The cost of entry to microwave has dropped considerably over the past 30 years and is less of a deterrent to microwave operation.

The January 2023 contest is in the books, and it is time to look forward to the 2024 January VHF Contest. It will take place 1900Z, Jan 20 to 0359Z, Jan 22, 2024. Start your planning now!



KK6MC/r in DM33 near the Maricopa convergence. To the right is the fertilizer plant, with its piles of manure, which makes for a stinko path in that direction. [James Duffey, KK6MC, photo]

QSOs by Mode and Band									
Band	CW	DG	FM	PH	RY	DG+RY	%Digi	Band Qs	%/Band
50	488	23755	232	6165	1722	25477	78.73%	32362	45.66%
144	521	11315	1388	8326	810	12125	54.23%	22360	31.55%
222	174	423	553	3288	68	491	10.90%	4506	6.36%
432	303	1276	674	5075	111	1387	18.64%	7439	10.50%
902	152	8	104	984		8	0.64%	1248	1.76%
1.2G	247	105	76	1465	15	120	6.29%	1908	2.69%
2.3G	139		5	343			0.00%	487	0.69%
3.4G	40			90			0.00%	130	0.18%
5.7G	38			97			0.00%	135	0.19%
10G	70			171	1	1	0.41%	242	0.34%
24G				5			0.00%	5	0.01%
47G				3			0.00%	3	0.00%
123G	1			7			0.00%	8	0.01%
LIGHT	33			4			0.00%	37	0.05%
Total	2206	36882	3032	26023	2727	39609	55.89%	70870	

Regional Leaders									
West Coast Region		Midwest Region		Central Region		Southeast Region		Northeast Region	
(Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NT Sections)		(Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)		(Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Greater Toronto Area Sections)		(Delta, Roanoke and Southeastern Divisions)		(New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)	
Classic Rover									
N7GP/R	215,137	KI5PYQ/R	8,790	VE3OIL/R	63,500	AG4V/R	7,802	K2UA/R	56,056
N7DSX/R	40,920	NØSPN/R	495	K9TMS/R	15,876	KN4SYO/R	70	NN3Q/R	46,626
K7LSX/R	34,614	N5ZY/R	399	N9REP/R	14,168			K2ET/R	34,638
KK6MC/R	16,020	AF4JF/R	176	AA9IL/R	6,524			W3ICC/R	27,140
K7TJK/R	2,806	WAØCNS/R	65					W2EV/R	19,296
Limited Rover									
KA7RRA/R	1,635	W5TN/R	29,510	KG9OV/R	27,413	NV4B/R	30,667	N5BNO/R	4,158
K7BWH/R	564	KA5D/R	23,820	W9YOY/R	10,450	AE5P/R	9,540	AF1R/R	1,104
KD6EFQ/R	432	N6RH/R	10,920	VE3GKT/R	9,020	KM4OZH/R	8,342	K2CR/R	216
KI6A/R	348	KI5FIQ/R	10,440	N9YH/R	6,240				
K6LMN/R	264	WA5AZQ/R	387	KD9VUT/R	1,404				
Unlimited Rover									
W6YX/R	11,920	NØLD/R	69,993	K9JK/R	12,312	K4NO/R	10,032		
		K5SRT/R	66,794			K4CNY/R	4,148		
		KI5VZJ/R	51,156			KK4BZ/R	2,862		
		K5ATX/R	32,452						
		KCØP/R	8,880						
Single-operator, High Power									
N1AV	104,299	WØZQ	15,138	KE8FD	58,512	N4QWZ	48,984	K1TEO	294,140
N7VD	22,528	KØSIX	10,721	N4SV	23,793	K1HTV	30,600	N2JMH	209,088
KE7SW	8,322	KØAWU	8,040	VE3WY	22,000	N3MK	24,624	K2TER	58,667
K7EME	6,154	W5LO	7,474	K8MM	21,243	K3SK	23,661	W1FKF	51,200
W7FI	4,410	NYØV	2,470	KB8U	20,678	WB4OMG	7,938	WA3DRC	39,425

Single-operator, Low Power									
N7IR	16,324	NØLL	4,960	K2DRH	77,714	W4MAA	7,670	N3RG	65,208
N7EPD	9,366	KM5RG	4,368	K9MU	33,708	KY4G	6,372	N2WK	59,126
WZ8T	5,400	K5TRA	4,248	VE3SMA	12,485	WB2SNN	3,920	NR2C	53,728
KD7UO	4,712	KB5VKP	1,100	KE8JCD	8,160	K4FJW	3,268	WA3NUF	40,128
KE6GLA	3,264	KA5PMV	1,075	KE8QEP	7,504	W4TM	3,081	KA2ENE	35,581
Single-operator, Analog-only, High Power									
K6WIS	1,292	WØGHZ	11,856	VE3ZV	47,530	W3IP	26,714	WZ1V	49,536
K7ND	760	K5LLL	3,026	K9YR	2,548	N1GC	2,144	W2FU	24,684
K7HP	12			VE3KG	902	W4YN	1,342	W2KV	18,265
				K2YAZ	90	NT4RT	629	WA1PBU	6,864
						W4AMP	465	WB2RVX	6,440
Single-operator, Analog-only, Low Power									
N7RK	7,843	KAØPQW	3,503	VE3DS	22,218	W4RAA	4,964	AF1T	64,602
K6MI	4,590	WB5ZDP	336	K8BB	3,060	N4IS	1,610	K3TUF	28,853
KC6ZWT	1,826	WØZF	216	VE3WJ	1,118	KW4G	108	KA3FQS	13,530
N4DLA	1,716	KJØP	70	N9GH	299	KF7CG	30	WB2JAY	8,740
K7YO	1,386	W5TV	60	WO3X	261	WB2CYJ	20	WS3C	5,868
Single-Operator, Portable									
VE7KPM	24	W1AW (NØJK, op)	640	WK9U	725	AB4DX	2,964	WX3P	798
VE7VIE	16	NØSUW	360	KD9NYE	130	W8TL	312	AA1X	287
		KØDBU	30	WB9AYW	78	N4NQY	6	W3FA	189
Single-Operator, Analog-only, Portable									
WA7JTM	4,375	KØNR	168	N8XA	72	WX4DAT	40	N3YMS	16,995
KF7NP	2,159	KØJJW	168			N3AWS	1	WB2AMU	481
AA6XA	1,820							KQ2RP	180
N6ARA	280							N2MAK	160
N7JA	90							KK4YZG	28
Single-operator, 3 Band									
K6KLY	5,950	W5TRL	20,008	KO9A	40,365	KK4MA	15,900	N3YY	55,720
W8JH	4,719	WDØBGZ	8,004	K9SB	3,465	KV4ZY	3,864	KE3JP	14,484
KG7PD	1,530	KØVG	2,352	KT8O	3,432	KO4PZW	3,366	N3ALN	10,679
KK6ZIZ	728	NØAT	2,176	WB9TFH	3,362	AB4SF	3,007	NE2U	8,106

AD7MC	572	KBØHNN	1,222	N8HRZ	2,516	NS4T	2,769	K3RLW	6,732
Single-operator, Analog-only, 3 Band									
N7QOZ	2,457	AD4OS	280	VE3WG	270	KN4QPA	288	KC3LEC	440
K2GMY	1,292	WBØLJC	130			K1CE	1	N2KW	330
K7CX	1,290							W2FDJ	324
WB7FJG	500							N1ZN	300
W7JMP	440							W1DYJ	294
Single-operator, FM only									
W7IMC	3,222	KG5UNK	343	VE3RWJ	1,150			KB1YNT	570
N1TEN	294	KFØKFB	10					VA2DG	246
AF6GM	205							VA2WDW	84
N6DRE	186							AK1EB	18
KN6FKQ	132								
Limited Multioperator									
WO1S	3,360	K5QE	70,848	VE3MIS	55,753	WH6A	12,483	N2NT	149,898
		NØLBY	9,680	KE8RV	18,530	W4GZX	3,068	W2MMD	66,700
		K7EMR	42			W4TG	530	W3HZU	60,568
		W5AC	12			K8AEP	52	WA3EKL	22,932
								N3EXA	22,144
Unlimited Multioperator									
W7DG	2,484	KC5MVZ	348	N8GA	53,280	W4NH	70,140	N3NGE	111,280
VE6AO	407			WD9EXD	41,676	N4SVC	62,699	KD2LGX	55,180
						N4BRF	6,815	KE1LI	35,862
								WØRSJ	20,740
								W3RFC	8,050

Division Winners

R = Classic Rover; RL = Limited Rover; RU = Unlimited Rover; SO = Single Operator; ALG = Analog-only;
 3B = 3 Band; FM = FM only; P = Portable; HP = High Power; LP = Low Power;
 LM = Limited Multioperator; UM = Unlimited Multioperator

Division	R	RL	RU	SOHP	SOLP	SO-ALG-HP	SO-ALG-LP
Atlantic	K2UA/R	N5BNO/R		N2JMH	N3RG	W2FU	K3TUF
Central	K9TMS/R	KG9OV/R	K9JK/R	N4SV	K2DRH	K9YR	N9GH
Dakota	NØSPN/R	KFØFQV/R	KCØP/R	WØZQ	WAØVPJ	WØGHZ	KAØPQW
Delta	AG4V/R	NV4B/R		N4QWZ	AJ6T		KF7CG
Great Lakes				KE8FD	KE8JCD	K2YAZ	K8BB
Hudson		K2CR/R		WA2FZW	WB2SIH	W2KV	WB2JAY
Midwest	AF4JF/R			KFØM	NØLL		
New England		AF1R/R		K1TEO	N8RA	WZ1V	AF1T
Northwestern	WA6OEM/R	KA7RRA/R		KE7SW	N7EPD	K7ND	K7YO
Pacific			W6YX/R	N6KOG	KE6GLA	K6WIS	K6MI
Roanoke	KN4SYO/R	KM4OZH/R	KK4BZ/R	K1HTV	K4FJW	W3IP	WB2CYJ
Rocky Mountain		WØWLA/R		WTØDX	NJ7A		
Southeastern			K4NO/R	WB4OMG	W4MAA	W4AMP	W4RAA
Southwestern	N7GP/R	KD6EFQ/R		N1AV	N7IR	K7HP	N7RK
West Gulf	KI5PYQ/R	W5TN/R	NØLD/R	W5LO	KM5RG	K5LLL	WB5ZDP
Canada	VE3OIL/R	VE3GKT/R		VE3WY	VE3SMA	VE3ZV	VE3DS

Division Winners

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3B = 3 Band; FM = FM only; P = Portable; HP = High Power; LP = Low Power;
LM = Limited Multioperator; UM = Unlimited Multioperator

Division	SOP		SOP-ALG		SO3B		SO3B-ALG		SOFM		LM		UM
Atlantic	W3FA		N3YMS		N3YY		KC3LEC				W2MMD		N3NGE
Central	WK9U				KO9A								WD9EXD
Dakota	NØSUW				KØVG		WBØLJC		KFØKFB				
Delta			N3AWS		K5TRP						W4GZX		
Great Lakes			N8XA		N8HRZ						KE8RV		N8GA
Hudson	WX3P		WB2AMU		KD2TT		WB2ONA				N2NT		W2SZ
Midwest	W1AW (NØJK, op)				WDØBGZ		AD4OS				NØLBY		
New England	AA1X				W1QK		N2KW		KB1YNT		W1FM		KE1LI
Northwestern			N7JA		KG7PD		N7QOZ		W7IMC				W7DG
Pacific			AA6XA		K6KLY		K2GMY		KM6SJO				
Roanoke	W8TL		WX4DAT		KK4MA		KN4QPA				W4TG		
Rocky Mountain	KØDBU		KØJJW, KØNR		AA5PR						K7EMR		
Southeastern	AB4DX				NS4T		K1CE				WH6A		W4NH
Southwestern			WA7JTM		W8JH		N9OBB		N1TEN		WO1S		
West Gulf					W5TRL				KG5UNK		K5QE		KC5MVZ
Canada	VE7KPM		VA7USD		VA3WB		VE3WG		VE3RWJ		VE3MIS		VE6AO

QSO/Mult Band Leaders by Category	
Classic Rover	
50 MHz QSOs	
N7GP/R	196
VE3OIL/R	100
KK6MC/R	84
W3ICC/R	59
K7LSX/R	53
VE3OIL/R	9
AG4V/R	7
NN3Q/R	7
W3ICC/R	7
K2ET/R	6
K2UA/R	6
KI5PYQ/R	6
N7DSX/R	6
N7GP/R	6
432 MHz QSOs	
N7GP/R	173
K9TMS/R	58
KK6MC/R	58
W3ICC/R	55
KI5PYQ/R	53
N9REP/R	53
432 MHz Mults	
VE3OIL/R	10
W5VY/R	8
W3ICC/R	7

50 MHz Mults	
VE3OIL/R	30
AG4V/R	14
N7GP/R	11
KK6MC/R	9
W5VY/R	9
144 MHz QSOs	
N7GP/R	173
VE3OIL/R	90
NN3Q/R	85

AG4V/R	6
K2ET/R	6
K2UA/R	6
KI5PYQ/R	6
KK6MC/R	6
N7DSX/R	6
N7GP/R	6
NN3Q/R	6
902 MHz QSOs	
N7GP/R	121
K2UA/R	39
K2ET/R	35
K9TMS/R	35
N9REP/R	32
902 MHz Mults	
N7GP/R	6
K2ET/R	5
K2UA/R	5
VE3OIL/R	5

W3ICC/R	67
KK6MC/R	63
144 MHz Mults	
VE3OIL/R	21
W5VY/R	14
NN3Q/R	10
AG4V/R	9
KK6MC/R	8
KV2X/R	8
N7DSX/R	8

AA9IL/R	4
K7LSX/R	4
K9TMS/R	4
KV2X/R	4
N7DSX/R	4
N9REP/R	4
NN3Q/R	4
W2EV/R	4
1.2 GHz QSOs	
N7GP/R	141
KK6MC/R	52
K2UA/R	37
N7DSX/R	37
W3ICC/R	32
1.2 GHz Mults	
VE3OIL/R	7
W3ICC/R	7
KK6MC/R	6
N7GP/R	6

W3ICC/R	8
222 MHz QSOs	
N7GP/R	129
K9TMS/R	51
KI5PYQ/R	51
W3ICC/R	49
N9REP/R	47
222 MHz Mults	

K2ET/R	5
KV2X/R	5
N7DSX/R	5
NN3Q/R	5
2.3 GHz QSOs	
N7GP/R	92
K2UA/R	23
W3ICC/R	18
K2ET/R	14
NN3Q/R	14
2.3 GHz Mults	
N7GP/R	6
K2ET/R	4
K2UA/R	4
K7LSX/R	4
N7DSX/R	4
NN3Q/R	4
W2EV/R	4
W3ICC/R	4

3.4 GHz QSOs	
K2UA/R	17
N7GP/R	13
NN3Q/R	9
K2ET/R	7
N7DSX/R	7
3.4 GHz Mults	
K2UA/R	4
K7LSX/R	4
N7DSX/R	4
N7GP/R	4
K2ET/R	3
NN3Q/R	3
5.7 GHz QSOs	
N7GP/R	20
NN3Q/R	12
K2UA/R	9
K7LSX/R	7
N7DSX/R	6
5.7 GHz Mults	
K7LSX/R	4
N7DSX/R	4
N7GP/R	4
NN3Q/R	4
K2UA/R	3
10 GHz QSOs	
N7GP/R	28
K2UA/R	27
K7LSX/R	11

N7DSX/R	11
K2ET/R	10
10 GHz Mults	
K7LSX/R	4
N7DSX/R	4
N7GP/R	4
K2UA/R	3
NN3Q/R	3
24 GHz QSOs	
VE3OIL/R	1
24 GHz Mults	
VE3OIL/R	1
123 GHz QSOs	
VE3OIL/R	1
123 GHz Mults	
VE3OIL/R	1
Light QSOs	
KØBAK/R	12
NN3Q/R	1
VE3OIL/R	1
W3ICC/R	1
Light Mults	
KØBAK/R	3
NN3Q/R	1
VE3OIL/R	1
W3ICC/R	1

Limited Rover	
50 MHz QSOs	
NV4B/R	88
W5TN/R	87
W9YOY/R	83
KG9OV/R	80
KI5FIQ/R	66
50 MHz Mults	
NV4B/R	29
KG9OV/R	23
W5TN/R	16
KA5D/R	15
W9YOY/R	15
144 MHz QSOs	
KG9OV/R	126
W5TN/R	90
VE3GKT/R	84
W9YOY/R	82
KM4OZH/R	78
144 MHz Mults	
KG9OV/R	32
W9YOY/R	25
NV4B/R	23
VE3GKT/R	19
W5TN/R	18
222 MHz QSOs	
W5TN/R	64
KA5D/R	63
N6RH/R	62
KI5FIQ/R	60

AE5P/R	54
222 MHz Mults	
NV4B/R	16
KA5D/R	10
W5TN/R	10
KG9OV/R	7
AE5P/R	6
KI5FIQ/R	6
N6RH/R	6
432 MHz QSOs	
W5TN/R	78
KA5D/R	75
N6RH/R	63
KI5FIQ/R	60
N9YH/R	58
432 MHz Mults	
NV4B/R	16
KA5D/R	12
W5TN/R	11
KG9OV/R	9
VE3GKT/R	9
Unlimited Rover	
50 MHz QSOs	
K5SRT/R	95
K5ATX/R	92
W6YX/R	82
K4NO/R	70
NØLD/R	69
50 MHz Mults	

K5SRT/R	29
K4NO/R	28
NØLD/R	16
W6YX/R	15
K4CNY/R	13
K5ATX/R	13
144 MHz QSOs	
K5ATX/R	114
NØLD/R	92
W6YX/R	85
K5SRT/R	71
KI5VZJ/R	71
144 MHz Mults	
K4NO/R	15
K5ATX/R	14
K5SRT/R	11
NØLD/R	11
KI5VZJ/R	9
KK4BZ/R	9
222 MHz QSOs	
K5ATX/R	72
NØLD/R	68
KI5VZJ/R	50
K5SRT/R	48
K9JK/R	44
222 MHz Mults	
K5ATX/R	10
K5SRT/R	10
NØLD/R	10
K4NO/R	9

KI5VZJ/R	9
432 MHz QSOs	
K5ATX/R	84
NØLD/R	78
KI5VZJ/R	66
K9JK/R	65
K5SRT/R	61
432 MHz Mults	
K5ATX/R	11
K5SRT/R	11
NØLD/R	10
KI5VZJ/R	9
K4NO/R	7
902 MHz QSOs	
KI5VZJ/R	56
NØLD/R	55
K5SRT/R	47
K9JK/R	30
K5ATX/R	6
902 MHz Mults	
K5SRT/R	10
NØLD/R	10
KI5VZJ/R	9
K9JK/R	4
W6YX/R	3
1.2 GHz QSOs	
NØLD/R	61
KI5VZJ/R	59
K5SRT/R	46

KCØP/R	10
NØHZO/R	8
1.2 GHz Mults	
K5SRT/R	10
NØLD/R	10
KI5VZJ/R	9
KCØP/R	5
NØHZO/R	5
2.3 GHz QSOs	
K5ATX/R	1
2.3 GHz Mults	
K5ATX/R	1
10 GHz QSOs	
KCØP/R	4
NØHZO/R	3
10 GHz Mults	
KCØP/R	4
NØHZO/R	3
Single Operator, High Power	
50 MHz QSOs	
K1TEO	273
K1HTV	221
WA2FZW	179
N3FTI	174
N2JMH	172
50 MHz Mults	

N2JMH	80
W5LO	74
KE8FD	71
KB8U	64
N4QWZ	64
144 MHz QSOs	
W3XTT (KA1ZE, op)	246
K1TEO	229
WA2ZPX	143
K2TXB	130
KE8FD	123
144 MHz Mults	
W3XTT (KA1ZE, op)	71
KE8FD	56
K1TEO	46
N4QWZ	42
VE3WY	42
222 MHz QSOs	
K1TEO	66
N2JMH	50
N1AV	35
N4QWZ	32
W1FKF	32
222 MHz Mults	
K1TEO	29
N4QWZ	22
N2JMH	16
W1FKF	16
KE8FD	13

432 MHz QSOs	
K1TEO	103
N2JMH	50
N1AV	47
KU4XO	44
KC3BVL	36
432 MHz Mults	
KU4XO	32
K1TEO	29
N4QWZ	23
KE8FD	18
N2JMH	13
N4SV	13
902 MHz QSOs	
N2JMH	29
N1AV	26
K1TEO	23
W2SJ	14
K2TER	12
WA2OMY	12
902 MHz Mults	
K1TEO	17
N1AV	9
N2JMH	8
K1KG	6
K2TER	6
N7VD	6
1.2 GHz QSOs	
N1AV	50
K1TEO	42

N2JMH	29
K7EME	20
W2BVH	17
W2SJ	17
1.2 GHz Mults	
N1AV	21
K1TEO	18
K7EME	14
N2JMH	8
N7VD	7
2.3 GHz QSOs	
N2JMH	22
K1TEO	21
N1AV	15
WA2OMY	11
K2TER	9
2.3 GHz Mults	
K1TEO	11
N2JMH	6
K2TER	5
N1AV	5
W1FKF	5
WA3DRC	5
3.4 GHz QSOs	
N2JMH	12
K1TEO	6
K2TER	6
W3SZ	4
WA2OMY	3

3.4 GHz Mults	
K1TEO	6
N2JMH	4
W3SZ	4
K2TER	3
K1KG	2
WA2OMY	2
5.7 GHz QSOs	
N2JMH	12
K1TEO	5
N1AV	5
WA2OMY	5
K2TER	3
N7VD	3
W3SZ	3
5.7 GHz Mults	
K1TEO	5
N1AV	4
N2JMH	4
W3SZ	3
WA2OMY	3
10 GHz QSOs	
N1AV	20
N2JMH	16
K2TER	5
N7VD	5
K2DH	4
W1FKF	4
W3SZ	4
10 GHz Mults	

N1AV	8
N2JMH	4
K2DH	3
K2TER	3
N7VD	3
W1FKF	3
W3SZ	3
24 GHz QSOs	
W1FKF	1
24 GHz Mults	
W1FKF	1
47 GHz QSOs	
W1FKF	1
47 GHz Mults	
W1FKF	1
Light QSOs	
W2SJ	2
KB1JEY	1
KC2TN	1
Light Mults	
KB1JEY	1
KC2TN	1
W2SJ	1
Single Operator, Low Power	
50 MHz QSOs	
K2DRH	177

NF3R	149
W2DAN	139
N2SCJ	136
K9MU	131
50 MHz Mults	
K2DRH	85
K9MU	55
NØLL	50
KE8JCD	44
NR2C	43
144 MHz QSOs	
N2SCJ	130
K2DRH	103
KA2ENE	101
WB2SIH	99
N8RA	98
144 MHz Mults	
K2DRH	51
KA2ENE	32
VA3IKE	32
N2SCJ	29
WA8MCD	29
222 MHz QSOs	
N3RG	42
N2WK	39
WA3NUF	38
WA3GFZ	31
N7IR	30
222 MHz Mults	

K2DRH	17
AJ6T	16
N3RG	12
N8RA	10
NF3R	10
432 MHz QSOs	
N3RG	50
N7IR	45
WA3NUF	42
WA3GFZ	39
K2DRH	37
432 MHz Mults	
K2DRH	20
N8RA	13
N3RG	12
WB2SIH	11
KE8QEP	10
KY4G	10
N2WK	10
WA3NUF	10
902 MHz QSOs	
N2WK	29
KA2ENE	15
N3RG	15
NR2C	14
WA3GFZ	13
902 MHz Mults	
KA2ENE	6
N2WK	6
N3RG	6

NR2C	5
WA3GFZ	4
WA3NUF	4
1.2 GHz QSOs	
N7IR	32
N3RG	28
N2WK	19
WA3GFZ	17
NR2C	12
1.2 GHz Mults	
N3RG	11
K2DRH	6
N2WK	6
N7IR	6
WA3NUF	6
2.3 GHz QSOs	
N2WK	15
NR2C	11
N3RG	9
WA3GFZ	9
WA3NUF	9
2.3 GHz Mults	
N3RG	6
N2WK	5
NR2C	5
WA3NUF	5
WA3GFZ	4
3.4 GHz QSOs	
N2WK	7

WA3NUF	4
WA3GFZ	1
3.4 GHz Mults	
N2WK	4
WA3NUF	2
WA3GFZ	1
5.7 GHz QSOs	
N2WK	7
NR2C	6
N3RG	2
WA3NUF	2
WA3GFZ	1
5.7 GHz Mults	
N2WK	4
NR2C	3
N3RG	2
WA3GFZ	1
WA3NUF	1
10 GHz QSOs	
N2WK	17
NR2C	9
VE3SMA	2
WA3GFZ	1
10 GHz Mults	
N2WK	6
NR2C	5
VE3SMA	1
WA3GFZ	1

Light QSOs	
WB3IGR	3
N3RG	1
W3GAD	1
WA3EHD	1
WA3GFZ	1
WA3NUF	1
Light Mults	
N3RG	1
W3GAD	1
WA3EHD	1
WA3GFZ	1
WA3NUF	1
WB3IGR	1
Single Operator, Analog Only, High Power	
50 MHz QSOs	
WZ1V	91
W3IP	85
W2KV	56
WA1PBU	54
WØGHZ	34
50 MHz Mults	
WZ1V	21
W3IP	19
W2KV	16
W2FU	11
K1TR	8
K1ZZ	8
K5LLL	8
VE3ZV	8

W1GHZ	8
W4AMP	8
WA1PBU	8
144 MHz QSOs	
W2KV	127
WZ1V	108
W3IP	73
VE3ZV	65
WØGHZ	57
144 MHz Mults	
W2KV	32
WZ1V	24
VE3ZV	23
W3IP	21
N1GC	18
222 MHz QSOs	
WZ1V	49
VE3ZV	42
W3IP	29
WB2RVX	25
W2FU	23
222 MHz Mults	
VE3ZV	20
WZ1V	20
N1GC	14
W1GHZ	11
W2FU	11
W3IP	11
432 MHz QSOs	

WZ1V	63
W2KV	52
W3IP	47
VE3ZV	45
WB2RVX	31
432 MHz Mults	
VE3ZV	20
WZ1V	19
W2KV	17
W3IP	16
W2FU	11
902 MHz QSOs	
W2FU	16
VE3ZV	14
WB2RVX	10
W1GHZ	5
WØGHZ	5
902 MHz Mults	
VE3ZV	8
W2FU	6
W1GHZ	5
K5LLL	3
N1JEZ	3
WB2RVX	3
WØGHZ	3
1.2 GHz QSOs	
WZ1V	25
WØGHZ	15
VE3ZV	13
W3IP	9

WA1PBU	9
1.2 GHz Mults	
WZ1V	12
VE3ZV	8
WØGHZ	6
W3IP	5
N1JEZ	4
W1GHZ	4
WA1PBU	4
2.3 GHz QSOs	
W2FU	11
VE3ZV	9
N1JEZ	4
K7ND	2
WB2RVX	1
WØGHZ	1
2.3 GHz Mults	
W2FU	6
VE3ZV	5
N1JEZ	3
K7ND	1
WB2RVX	1
WØGHZ	1
3.4 GHz QSOs	
VE3ZV	3
3.4 GHz Mults	
VE3ZV	3
5.7 GHz QSOs	

WB2RVX	1
WØGHZ	1
5.7 GHz Mults	
WB2RVX	1
WØGHZ	1
10 GHz QSOs	
W2FU	8
VE3ZV	4
WØGHZ	3
W3IP	1
10 GHz Mults	
W2FU	4
VE3ZV	2
WØGHZ	2
W3IP	1
Light QSOs	
WB2RVX	2
Light Mults	
WB2RVX	1
Single Operator, Analog Only, Low Power	
50 MHz QSOs	
AF1T	60
K3TUF	59
KA3FQS	44
N1GLT	40
AC1J	34
N7RK	34

50 MHz Mults	
AF1T	13
KAØPQW	12
K3TUF	11
WS3C	9
AC1J	8
K8BB	8
KA3FQS	8
KD2QKU	8
N7RK	8
VE3DS	8
144 MHz QSOs	
AF1T	88
KA3FQS	60
K3TUF	54
WB2CUT	54
WB2JAY	49
144 MHz Mults	
VE3DS	17
AF1T	15
WS3C	13
KD2HZI	12
WB2CUT	12
222 MHz QSOs	
KA3FQS	40
AF1T	39
VE3DS	25
K3TUF	24
WB2JAY	22

222 MHz Mults	
AF1T	14
VE3DS	12
KA3FQS	8
N1GLT	8
K3TUF	7
W4RAA	7
WB2VVV	7
432 MHz QSOs	
AF1T	54
N7RK	42
KA3FQS	40
K3TUF	36
VE3DS	33
432 MHz Mults	
AF1T	15
VE3DS	14
N7RK	9
K3TUF	8
KA3FQS	8
WS3C	8
902 MHz QSOs	
AF1T	16
K3TUF	12
VE3DS	10
KA3FQS	7
W4RAA	6
902 MHz Mults	
AF1T	10
K3TUF	5

VE3DS	5
WB2VVV	4
WB2JAY	3
1.2 GHz QSOs	
N7RK	26
AF1T	20
K3TUF	16
VE3DS	13
AC1J	11
KA3FQS	11
1.2 GHz Mults	
AF1T	9
VE3DS	7
K3TUF	6
N7RK	5
W4RAA	5
2.3 GHz QSOs	
K3TUF	10
AF1T	7
VE3DS	5
K6MI	1
VE3WJ	1
WB2JAY	1
2.3 GHz Mults	
AF1T	6
K3TUF	6
VE3DS	4
K6MI	1
VE3WJ	1
WB2JAY	1

3.4 GHz QSOs	
AF1T	5
KA3FQS	2
VE3DS	2
WB2JAY	1
3.4 GHz Mults	
AF1T	5
VE3DS	2
KA3FQS	1
WB2JAY	1
5.7 GHz QSOs	
K3TUF	5
AF1T	1
K6MI	1
VE3WJ	1
5.7 GHz Mults	
K3TUF	4
AF1T	1
K6MI	1
VE3WJ	1
10 GHz QSOs	
AF1T	7
K3TUF	3
K6MI	1
VE3EG	1
VE3WJ	1
10 GHz Mults	
AF1T	5

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K3TUF	3
K6MI	1
VE3EG	1
VE3WJ	1
24 GHz QSOs	
AF1T	1
K6MI	1
VE3WJ	1
24 GHz Mults	
AF1T	1
K6MI	1
VE3WJ	1
47 GHz QSOs	
AF1T	1
K6MI	1
47 GHz Mults	
AF1T	1
K6MI	1
123 GHz QSOs	
AF1T	1
K6MI	1
VE3WJ	1
123 GHz Mults	
AF1T	1
K6MI	1
VE3WJ	1
Light QSOs	

Full Results – Version 1.0

K3EGE	2
AF1T	1
K6MI	1
VE3WJ	1
Light Mults	
AF1T	1
K3EGE	1
K6MI	1
VE3WJ	1
Single Operator, Portable	
50 MHz QSOs	
AA1X	40
W1AW (NØJK, op)	34
WK9U	34
WX3P	29
W8TL	26
50 MHz Mults	
WK9U	25
W1AW (NØJK, op)	20
AB4DX	13
W8TL	13
WX3P	13
144 MHz QSOs	
AB4DX	21
W3FA	21
NØSUW	17
KD9NYE	13
AA1X	4
WX3P	4

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144 MHz Mults	
AB4DX	12
KD9NYE	10
W3FA	9
WX3P	4
NØSUW	2
222 MHz QSOs	
AB4DX	7
222 MHz Mults	
AB4DX	7
432 MHz QSOs	
AB4DX	10
NØSUW	5
WX3P	4
432 MHz Mults	
AB4DX	7
WX3P	4
NØSUW	2
Single Operator, Portable, Analog Only	
50 MHz QSOs	
N3YMS	34
WA7JTM	19
AA6XA	14
KF7NP	11
WB2AMU	10
50 MHz Mults	
N3YMS	11

AA6XA	6
WA7JTM	5
WB2AMU	5
KQ2RP	4
N2MAK	4
N6ARA	4
N8XA	4
144 MHz QSOs	
N3YMS	41
AA6XA	31
KF7NP	28
WA7JTM	26
W7ETF	18
144 MHz Mults	
N3YMS	12
WA7JTM	6
AA6XA	5
KF7NP	5
N2MAK	4
N6ARA	4
WB2AMU	4
222 MHz QSOs	
N3YMS	28
KF7NP	11
WA7JTM	11
KAØCRO	5
WB2AMU	4
222 MHz Mults	
N3YMS	9
KAØCRO	3

KF7NP	2
N2MAK	2
WA7JTM	2
WB2AMU	2
432 MHz QSOs	
N3YMS	32
WA7JTM	23
KF7NP	16
AA6XA	12
K7UOU	7
432 MHz Mults	
N3YMS	9
WA7JTM	5
AA6XA	4
KF7NP	4
K7UOU	3
902 MHz QSOs	
N3YMS	15
WA7JTM	4
KF6CVA	1
N7JA	1
902 MHz Mults	
N3YMS	6
WA7JTM	2
KF6CVA	1
N7JA	1
1.2 GHz QSOs	
N3YMS	14
WA7JTM	14

KF7NP	12
AA6XA	5
KAØCRO	2
1.2 GHz Mults	
N3YMS	8
WA7JTM	5
AA6XA	4
KF7NP	3
KAØCRO	1
KF6CVA	1
KØJJW	1
KØNR	1
N6ARA	1
N7JA	1
WX4DAT	1
123 GHz QSOs	
K7UOU	1
123 GHz Mults	
K7UOU	1
Single Operator, 3 Band	
50 MHz QSOs	
N3YY	245
KO9A	177
WDØBGZ	145
KE3JP	129
KC3NDU	127
50 MHz Mults	
N3YY	91
KO9A	65

KK4MA	64
WDØBGZ	58
W5TRL	53
144 MHz QSOs	
N3YY	119
KO9A	117
NE2U	102
N3ALN	86
KE3JP	68
144 MHz Mults	
KO9A	40
N3YY	40
KE3JP	29
N3ALN	28
NE2U	25
432 MHz QSOs	
K6KLY	34
W5TRL	30
KO9A	29
W8JH	27
N3YY	22
432 MHz Mults	
KK4MA	12
KO9A	12
W5TRL	11
N3YY	9
W8JH	8
Single Operator, Analog Only, 3 Band	

50 MHz QSOs	
KC3LEC	34
N2KW	30
N7QOZ	28
WB7FJG	21
K7CX	18
50 MHz Mults	
N2KW	11
N1JD	7
KC3LEC	6
N7QOZ	6
K2GMY	5
144 MHz QSOs	
N7QOZ	49
K7CX	42
K2GMY	29
W7JMP	29
AD4OS	25
KN4QPA	25
144 MHz Mults	
KN4QPA	10
AD4OS	8
K7CX	8
N7QOZ	8
K2GMY	6
N1JD	6
432 MHz QSOs	
N7QOZ	25
K2GMY	19
K7CX	13

W7JMP	10
VE3WG	9
W1DYJ	9
432 MHz Mults	
N7QOZ	7
K2GMY	6
K7CX	3
W2FDJ	3
W7RDW	3
Single Operator, FM Only	
50 MHz QSOs	
W7IMC	30
KB1YNT	8
KG5UNK	4
VA2DG	2
AF6GM	1
N1TEN	1
50 MHz Mults	
KB1YNT	2
AF6GM	1
KG5UNK	1
N1TEN	1
VA2DG	1
W7IMC	1
144 MHz QSOs	
W7IMC	116
VE3RWJ	47
KB1YNT	34
AF6GM	22
N1TEN	19

144 MHz Mults	
KB1YNT	5
VE3RWJ	4
W7IMC	3
AF6GM	2
KFØKFB	2
KG5UNK	2
KM6SJO	2
KN6FKQ	2
N1TEN	2
N6DRE	2
N6IV	2
VA2DG	2
VA2WDW	2
222 MHz QSOs	
W7IMC	34
VA2DG	6
VE3RWJ	5
KG5UNK	3
KO6BT	3
N6DRE	3
222 MHz Mults	
KG5UNK	2
N6DRE	2
VE3RWJ	2
W7IMC	2
AK1EB	1
KN6FKQ	1
KO6BT	1
N1TEN	1
VA2DG	1

VA2WDW	1
432 MHz QSOs	
W7IMC	76
VE3RWJ	29
N1TEN	14
AF6GM	11
KG5UNK	11
432 MHz Mults	
VE3RWJ	4
KB1YNT	3
KM6SJO	3
W7IMC	3
AF6GM	2
KG5UNK	2
N1TEN	2
N6DRE	2
VA2DG	2
Limited Multioperator	
50 MHz QSOs	
N2NT	281
W2MMD	224
W3HZU	208
K5QE	170
WA3EKL	161
50 MHz Mults	
K5QE	106
N2NT	62
VE3MIS	56
NØLBY	50
WH6A	46

144 MHz QSOs	
N2NT	279
W3HZU	216
N3EXA	146
W2MMD	129
VE3MIS	115
144 MHz Mults	
K5QE	60
N2NT	53
W3HZU	41
KE8RV	38
W2MMD	36
222 MHz QSOs	
N2NT	76
W2MMD	50
VE3MIS	33
N3EXA	29
W4GZX	9
222 MHz Mults	
N2NT	23
W2MMD	19
VE3MIS	16
N3EXA	9
KE8RV	2
W2RME	2
W4GZX	2
432 MHz QSOs	
N2NT	106
VE3MIS	67

W2MMD	66
W3HZU	50
K2AA	29
432 MHz Mults	
N2NT	28
VE3MIS	24
W3HZU	22
W2MMD	20
K5QE	14
1.2 GHz QSOs	
WH6A	14
K5QE	12
WO1S	11
W3HZU	8
1.2 GHz Mults	
WH6A	14
K5QE	12
W3HZU	8
WO1S	4
Unlimited Multioperator	
50 MHz QSOs	
KE1LI	189
N4SVC	180
W4NH	178
N8GA	146
N3NGE	132
50 MHz Mults	
N4SVC	88
W4NH	80

N8GA	69
KD2LGX	47
KE1LI	45
144 MHz QSOs	
N3NGE	140
KE1LI	136
N8GA	130
W4NH	93
W3RFC	88
144 MHz Mults	
N8GA	47
W4NH	44
WD9EXD	40
N3NGE	38
N4SVC	32
222 MHz QSOs	
N3NGE	59
KD2LGX	30
WD9EXD	29
W4NH	25
KE1LI	22
222 MHz Mults	
WD9EXD	22
N3NGE	20
W4NH	17
N4SVC	14
KD2LGX	13
432 MHz QSOs	
N3NGE	64

KD2LGX	40
W4NH	35
WD9EXD	35
N4SVC	33
432 MHz Mults	
WD9EXD	25
N4SVC	24
KD2LGX	21
W4NH	20
N3NGE	19
902 MHz QSOs	
N3NGE	19
KD2LGX	10
WØRSJ	6
N4SVC	4
WD9EXD	4
902 MHz Mults	
N3NGE	8
KD2LGX	5
N4SVC	4
WD9EXD	4
WØRSJ	3
1.2 GHz QSOs	
N3NGE	21
KD2LGX	13
WØRSJ	9
N4SVC	8
N4BRF	5
W4NH	5

1.2 GHz Mults	
N3NGE	8
N4SVC	7
KD2LGX	5
W4NH	4
WØRSJ	4
2.3 GHz QSOs	
N3NGE	13
KD2LGX	4
WØRSJ	3
W2SZ	2

2.3 GHz Mults	
N3NGE	5
KD2LGX	4
W2SZ	2
WØRSJ	2
3.4 GHz QSOs	
W2SZ	2
3.4 GHz Mults	
W2SZ	2
5.7 GHz QSOs	

N3NGE	6
W2SZ	1
5.7 GHz Mults	
N3NGE	5
W2SZ	1
10 GHz QSOs	
N3NGE	4
W4NH	2
KA1SU	1
W2SZ	1

10 GHz Mults	
N3NGE	3
KA1SU	1
W2SZ	1
W4NH	1
Light QSOs	
N3NGE	2
Light Mults	
N3NGE	1