## Mt. AIRY V.H.F. RADIO CLUB, INC.



## **W3CCX** CLUB MEMORIAL CALL

ARRL Affiliated Club

Volume LXVIII

#### February 2025

Number

2

(February 2025)



SEZ: January was a busy month for the Pack Rats. We held the first ever FT8 Net Night which was very successful and a lot

of fun. I received several positive comments from participating club members and a few queries from people outside the club that expressed interest in the idea. Maybe something we should think about repeating this to gain attention and draw in potential new VHF candidates?

We also had a tremendous response to the contest prep sessions over the past three months, culminating in the well attended club meeting just before the contest weekend. It wasn't as much fun as an in-person gathering but everyone seemed to enjoy the discussions and presentations. Thanks again to all of the mini presentation presenters over the past few meetings.

The contest itself was brutal. Poor weather, terrible RF conditions, too many frozen antennas, and a noticeable drop in activity compared to past years. Plenty of material I'm sure, for the upcoming Crying Towel meeting. One bright spot was the Sunday afternoon Pack Rat Bowl activity session. I collected 66 contacts and 16 multipliers in the 3-hour time period. Many were club members but a good number were from outside the club. The only negative comments I heard later came from a few NE ops that listened in during the event but didn't hear as much activity as they were hoping for. I think this is a case of misunderstanding. The point of the activity period was to find a station or call CQ and move that station up the bands. If they expected a thundering herd of people staying on 2M they were certainly disappointed. I'm looking forward to hearing your impressions of the Pack Rat activity period at the February meetng. Additional information on the preliminary contest results can be found within this issue.

One last topic on contest prep: Make a list now about what worked, what failed, and what changes need to be made to improve your contest station and potential score.

Speaking of the next meeting, the February 20<sup>th</sup> general club meeting will return to the Ben Wilson Activity Center as an in-person event. The theme for the evening is our traditional Crying Towel session. Start putting together your best tear jerker story of the calamities you experienced over the January 18<sup>th</sup> to 20<sup>th</sup> weekend. Props and other visual materials will be gladly accepted in order to enhance your chances of winning the prestigious if dubious award. In addition to the crying towel stories, we will also have a program presentation or two, another massive Mario raffle, and other entertaining surprises. Don't miss it!

Another necessary reminder is that the March meeting will be our yearly Home Brew night. Start thinking now about what project you have or will be completing over the past year that you can show the club and gain the respect, admiration, or sympathy of your fellow club members. More on this in next month's issue of Cheese Bits.

CU on the bands Phil **WA3NUF** 

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Packrats <b>CHEESE BITS</b> is a monthly publication of	PACK RAT COMMITTEES
the	January Contest N3RG, N2NC, W2SJ, AA2SD
Mt. AIRY VHF RADIO CLUB, INC. – Abington, PA.	June Contest N3YMS, WA3YUE, W2SJ
, <b>G</b>	Fall Sprints WA3NUF, W9KXI, WA3EHD,
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EDITOR:	6:45PM 224.580 MHz KB3MTW Michelle Even,
Tom Frederiksen KA3FQS	K3JJZ EI Odd Mondays
cheesebits@packratvhf.com	7:00 PM Packrat Talk Group KA3WXV George
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Bill Schaffer WS3O	8:00 PM 144.245 MHz W2KV FN20ok Dave
webpresence@packratvhf.com	8:30 PM 222.125 MHz KC3BVL FM29jw Jim
	9:00 PM 432.110 MHz WB2RVX FM29mt Mike
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(003) 743 0043 Middilo3@comcd3t.net	PACKRAT E-MAIL REFLECTORS
	The Pack Rats have an E-Mail reflector that is open
<u>W3CCX QSL CARDS:</u> Bill Shaw K3EGE	to Pack Rats and friends of the Pack Rats. The
DIII SHAW KJEGE	intent of this E-mail reflector is to have a convenient
	means of reaching list members on subjects of
PACKRAT 222 MHz REPEATER - W3CCX/R	general interest to the VHF/UHF and Microwave
222.98/224.58 MHz (PL 136.5) Hilltown, PA	community.
OFFICERS 2024-2025	Packrats@mailman.qth.net
PRESIDENT WA3NUF Phil Miguelez	
president@packratvhf.com	The Pack Rats also have a <b>Members Only</b> reflector.
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N3RG Ray Golley 1 Year Director	name "Mt Airy VHF Radio Club".
WX3K Stephanie Koles 1 Year Director	

February 2025

It was good to be back in contest mode again. There was good activity in my area. 6m had some e-Skip around midnight Saturday night. Made for some unexpected grids. Rovers were out in force including the following calls: (Q'S/G'S) K2EZ/R (45/11), KE4WMF/R (17/6), KM4OZH/R (16/4), KD3PD/R (12/2), KG6CIH/R (10/2), W3ICC/R (7/2), KE2NJ/R (6/2), K7DAN/R (5/1), AA2SD/R (4/1) and VA3ELE/R (2/1). My total with Rovers was 124 contacts. These folks work very hard and we all owe them much gratitude. Sunday evening it got tougher for the Rovers in the mid-Atlantic with snow falling and the temperature guickly falling well below 32F. As the sun was going down my 6m antenna stopped accepting power. The other bands started to show they were not happy with the increasing SWR. So I shut down much earlier than normal. Summarv of scores below.

50     CW     5     5     5     5     1.0       50     FT8     20     20     10     1.0       50     MSK1     3     3     3     1.0       50     USB     44     44     10     1.0       144     CW     9     9     5     1.0       144     FM     7     7     2     1.0       144     FT8     35     35     9     1.0       144     FT8     35     35     9     1.0       144     USB     71     71     15     1.0       222     CW     8     16     6     2.0       222     FM     12     24     5     2.0       222     FT8     4     8     2     2.0       222     USB     42     84     8     2.0       222     USB     42     84     8     2.0       420     CW     8     16     5     2.0       420     FT8     13     26     2	Band 50	Mode CW	QSOs 5	Pts 5	Grd 3	Pt/Q 1.0
50     MSK1     3     3     1.0       50     USB     44     44     10     1.0       144     CW     9     9     5     1.0       144     FM     7     7     2     1.0       144     FM     7     7     2     1.0       144     FT8     35     35     9     1.0       144     USB     71     71     15     1.0       222     CW     8     16     6     2.0       222     FT8     4     8     2     2.0       222     USB     42     84     8     2.0       222     USB     42     84     8     2.0       222     USB     42     84     8     2.0       420     CW     8     16     5     2.0       420     FM     4     8     3     2.0       420     FT8     13     26     2     2.0       420     USB     55     110     12     2.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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144     FM     7     7     2     1.0       144     FT8     35     35     9     1.0       144     USB     71     71     15     1.0       222     CW     8     16     6     2.0       222     FM     12     24     5     2.0       222     FT8     4     8     2     2.0       222     USB     42     84     8     2.0       222     USB     42     84     8     2.0       222     USB     42     84     8     2.0       420     CW     8     16     5     2.0       420     FM     4     8     3     2.0       420     FT8     13     2.6     2     2.0       420     USB     55     110     12     2.0						
144     FT8     35     35     9     1.0       144     USB     71     71     15     1.0       222     CW     8     16     6     2.0       222     FM     12     24     5     2.0       222     FT8     4     8     2     2.0       222     FT8     4     8     2     2.0       222     USB     42     84     8     2.0       420     CW     8     16     5     2.0       420     FM     4     8     3     2.0       420     FT8     13     2.6     2     2.0       420     USB     55     110     12     2.0						
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420CW81652.0420FM4832.0420FT8132622.0420USB55110122.0			-			
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90Z CW II 44 6 4.0						
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1240 CW 10 40 4 4.0					-	
1240 FT8 1 4 1 4.0				-		
1240 Q65 1 4 1 4.0		~		-	_	
1240 USB 6 24 4 4.0	-		-		-	
2300 CW 5 40 2 8.0						
2300 USB 1 8 1 8.0						
3300 CW 4 32 2 8.0						
5650 CW 4 32 2 8.0						
5650 USB 1 8 1 8.0						
10000 CW 3 24 2 8.0	T0000	CW	3	Ζ4	2	8.0

10000	USB	1		8 1	8.0
Total	Both	401		806 130	2.0
		Score	:	104,780	

Thanks for everyone who got on. Thanks to ARRL for sponsoring this event. See you all in the Spring Sprints and then in June. 73, **Dave K1RZ** 

I started the contest at the grid corner just southwest of Philly and finished at the grid corner just south of Memphis TN. All told I traveled over 1,100 miles during the contest periods and activated 20 grids, made 255 Qs got 96 mults for a score of 63K. It gets up to 1,250 miles when I add the miles getting to my start location and miles after the contest to get to where I stayed that night. I worked 45 Qs with K1RZ over 11 grids with the furthest one just inside TN. I worked 35 Qs with N3NGE over 7 grids. Major difference is NGE took a dinner break missing one of my grids and then going QRT while I was still activating grids. I had some issues with 2304 and 3400 after initially working. I later found a problem with the keying of the TR relays, likely a low voltage problem. 222 MHz yagi SWR went crazy for a while. I attributed it to the weather. Later I had a high noise problem with the 144 MHz vagi and discovered multiple coax connectors loose in my coax relay array. This was likely the problem I had with the 222 MHz antenna as well. One of my biggest tactical blunders was when K0BAK/R showed up. I had just worked W3SZ and KG6CIH/R and was going to piggy back as SZ and CIH ran the bands working each of them. Then Pete showed up so I decided that I shouldn't keep Pete waiting so switched to running the bands with K0BAK/R. I never heard W3SZ again and it was hard finding KG6CIH/R again. In hindsight I should have taken the 5 minutes or so to run the bands with SZ and CIH then work Pete. And then after finishing working Pete, when switching from 903 MHz to work Pete to 902 MHz where I work most everyone else. I made an error with the flex radio and messed up the configuration. It took me 30 minutes to get it back to working correctly. None of this is Pete's fault but that really hurt my contest start. My plans to meet up with KE2WMF/R in northern Virginia fell through as he decided to start north and head east and south to avoid the snow. So my

running late at the start didn't mess that up and I picked up the extra grid on a dog-leg in a more efficient way although I could have really used the mults he would have gotten me down in those grids as I didn't work many others there. Three of the grids I was only able to activate because I found people on 146.52 FM as nobody was coming back on SSB or CW. So that is my quick summary. 73

## DE K2EZ/R

Out here on a peninsula, in EL96 in Florida, it's not easy to find high numbers of VHF ops and active stations. Over the past 10 years that I have operated the VHF contests from Florida, there has been an increasing percentage of operators relying strictly on FT8 operations, with rare SSB or CW QSOs. I managed only 1 CW QSO on 6m, the rest all digital. This year's January contest was missing many of the multiband ops including the N2CEI station, N4IS, WB4OMG and the recently formed southeastern Florida microwave group. To compound the issue, we discovered that the 432 beam on the VHF tower has a break in the coax feed between the hardline and the rotor loop. There has been no-one available to date to climb the 50' tower to assess the break and do the repair which is likely a parting of the connectors at that junction which was verified with TDR testing.

I brought my mini-tower and a 432 Yagi and rotor to have a temporary antenna for the contest. After setting it up, we were easily able to hear the Orlando beacon about 170 miles away. To try and increase the VHF activity, we asked club members to get out their walkies and other rigs that could be used on VHF. It increased our QSO numbers on 6, 2, 222 and 432. As the guardian of 6m FT8, we found only one significant opening on Sunday morning to the Great Lakes area with several stations in the FN02, 03, 12 & 13 grids active. I did work a station in FM19, but was unsuccessful in working another Packrat despite seeing N3FTI, KR1ST and N3ITT posting CQ's.

I am hoping that we will be able to complete the antenna installation for our satellite station soon, and that we can add a mast extension for 902, 2.3G and 3.4G antennas. We may have to keep a 432 antenna on that mast also if we can't get the coax on the big tower fixed. The dishes for 5G, 10G and 24G will have to wait for deployment until we can figure out a way to mount them and remove them to safety during the hurricane season.

Our January results Multiop station N4BRF ops: WA2VNV & K1DS

Band	QSOs	points	grids	score
50	101	101	49	4949
144	37	37	7	259
222	3	6	1	6
432	14	28	3	84
1296	2	8	1	8
Totals	157	180	61	10980



#### Rick K1DS

I had a good time working this contest although I did take some time out to watch some football. The Pack Rat Bowl was a great idea as it brought a lot of

stations out of the woodwork. For the first time I had ON4KST running but I sent no messages and the screen it was on was at right angle to the other screens in my station so it got only an occasional glance. That is something to improve next year. All contacts were "Analog" which can be pretty quiet at times. Pete, K0BAK, was nice enough to stop by and he gave me one of my two contacts on 3400. Phil, WA3NUF, was the other contact on 3400. The thing that I missed was the chatter on 223.5 FM especially Bert, W3IUV, who could often be heard looking for contacts. Also Michelle, KB3MTW, seemed to be absent. Well time to start planning for June.

## Tom KA3FQS

Band 50 144	QSO's 35 41	Qpts 35 41	Grids 6 6	Points 210 246
222	32	64	6	384
432	31	62	5	310
903	10	40	2	80
1296	9	36	2	72
2304	3	24	2	48
3400	2	16	1	16
Totals	163	318	30	9540

I've only been roving in VHF contests for ten vears, but I don't ever remember two solid weeks of cold weather (30s or worse) before the contest weekend. Along with medical appointments and the holiday season this limited my contest prep time. (In my defense, I'm taking a new med that makes me feel cold at 73F.) One respite day went into the 40s, when I had enough time to switch my Subaru Forester from a POTA HF rover to 9-band QRP VHF operations using internal antennas. I didn't have time to install the 100+w amplifiers and external antennas for long distance contacts on 6m and 2m. Hats off to my more-hardy rover friends who ventured out with Yagis and halos for distant contacts.

The driveway rover uses Gary OMY's 5-band 1mW club microwave transverter box, and an

IC-705 QRP radio for 432 microwave IF and native 50, 144, and 432. I brought along a 222 transverter as well. Thanks to Gary for helping me verify the rover's 9 SSB bands days before the contest. While I wanted to be capable this year of SSB contacts on {144,222,432}, I also had a 3-band HT for FM on those three bands. Because I'm much faster using the HT on those bands due to error-prone manual switching on SSB, I was grateful that everyone I visited was willing and able to make fast HT contacts (with one exception on one band).

With a rover capable of long-distance contacts on 6m and 2m like I had in September, typically I would start the contest on 6 and 2 only (almost all FT8), then drive to Amish country superstations N3NGE and K3TUF Saturday evening in FN20 and FN10 for same-grid and cross-grid QRP microwave contacts. This year I only had short-distance capability, concern about my much-improved but not fully recovered fatigue, and K3TUF not available.As a result, my rove plan was designed to maximize overall club scoring with only driveway stops while accommodating this year's limitations.

After getting eleven Rats to agree to a visit, I could complete my schedule spreadsheet and had a plan I could distribute to them. Highlights included a visit to Roger W3SZ for only the second time, visiting my two closest Rats (Bruce YUE and Gary) on Saturday night instead of Sunday morning, and a tour of South Jersey Rats on Sunday afternoon for the first time in several years. Saturday night one Rat had to drop out, leaving ten stations to visit.

But, the rove plan wasn't finished when I thought it was. Bill EGE called to inform me that super-rover Andrea K2EZ would be at a high spot in NGE's FN20 neighborhood, and a rover from New Hampshire (!) KG6CIH would be about 20 minutes away at an FN10 rover spot I've also used. I rarely try to rendezvous with rovers because it's tough to coordinate plans and changes, but I couldn't pass up my first microwave contacts with Andrea and to get contacts from and to FN10 to make up for the loss of K3TUF. Thanks go to Bill; rover coordination is his super-

power.

I am happy to report all equipment worked throughout the rove. The rove plan also functioned well with one big exception; see below. Sadly, Friday I realized that the snow forecast at home would require me to return home early Sunday afternoon, again preventing a tour of South Jersey stations. The storm forecast seemed to make driving in South Jersey at least plausible, but the quantity of snow at home was the bigger concern because I needed to get up my short but steep driveway to put my Suby away in the garage, especially because we had to leave for the airport early Tuesday.

Shout outs:

N3NGE – Thanks for taking me at the very start of the contest when everyone else is also trying to contact you.

K2EZ/R and KG6CIH/R – You were both very busy making contacts when I showed up and interrupted your flow; appreciate you taking the time to make contacts with me.

W3SZ – Thanks for taking calls and messages from me when I drove to a different hilltop when trying to drive to your place. Inexplicably, I pasted the wrong lat/long into my spreadsheet, the location for the Pottstown club's repeater site.

WA3GFZ –When I was not as fatigued as expected after the W3SZ visit at sunset Saturday, and realizing I'd reach you before temperatures were below freezing (the roads to Paul are winding and unfamiliar), you generously agreed to a last-minute visit. It was good to get another Rat in the log given my cancelation of SNJ, and my only FM29 contacts.

WA3YUE – My first contest visit was delayed again and again, but as you said it worked out for both of us. Glad to get you in my log on microwaves for the first time.

KA3FQS – You're still champ at making contacts quickly and smoothly, always a pleasure to stop at your station.

Band	QSO <b>'</b> s	Qpts	Grids	Points
50	9	9	3	27
144	9	9	3	27
222	9	18	3	54
432	9	18	3	54
903	9	36	3	108
1296	9	36	3	108
2304	3	24	2	48
3400	7	56	3	168
5760	4	32	3	96
Totals	68	278	26	7784

## Pete KOBAK

There is an excellent slide show featuring pictures of many stations at <u>https://docs.google.com/</u> <u>presentation/d/1VZE6r3VOpctqATnSeS2mf-</u> <u>2RcN3RIYin\_efSAajrBVA/edit?usp=sharing</u> courtesy of Scott AA2SD. It is worth a visit. (Editor)

## Mt. Airy VHF Radio Club `The Pack Rats` 2025 January VHF Contest Total Logs: 57 Club Claimed Score: 1,351,560

Call	OSOs	Total Grids	Score	6M	Contac <sup>.</sup> 2M	ts and 222	Grid	ds pe 432			1.3GHz	2.3GHz	3.4GHz	5.7(	GHz	10G	Hz
K1TEO K1RZ	441   401	149     130	122031 104780	178 34   72 26	106 27   122 31	47 2   66 2		55 80	24 22	14 12   24 10	21 11   18 9	12 7   6 3	2 2   4 2	6   5	5 3	5	5 3
WN3A	575	152	104576	249 61	219 47	52 2		52	20	21 10	3 3	0 0			0	-	0
WB2RVX	361	98	78890	106 20	71 19	48 1	5	64	18	18 6	25 6	16 6	32	8	4	2	2
K2EZ/R	256	92	64124	35 11	62 17	38 8		38	9	28 7	26 7	14 7	15 6				
WA3NUF	371	103	63963	139 31	98 27	48 1		50	16	11 4	14 4	9 3	2 1	I .			
N3RG	338	102	62526	126 36	91 24	36 8		38	10	13 6	19 6	1 1	4 3	6	4	4	4
WA3DRC WA2OMY	295   262	100     69	47700 32775	112 32   80 14	79 27   95 27	36 1   37 1		41 17	14 4	10 4   9 2	11 5   9 2	4 3   6 2	152	   /	2	2	2
N2SCJ	336	1 70 1	29540	130 24	134 32	162		49	10		7 2	102	1 5 2	1 7	2		
W3SZ	182	55	28490	40 10	32 6	22 6	i	25	6	18 7	20 7	6 1	64	,   7	3	6	5
WA3GFZ	234	61	22875	108 25	53 14	24 8		23	5	7 3	15 4	4 2					
NJFTI	320	69	22080	320 69													
WA3QPX	236	78	21216	129 36	71 24	10 7		26	11								
KC2TN W3KM	257   261	57     61	17841 17690	80 16   129 24	121 29   103 29	27 6   20 6	- L	29 9	6 2	1				1			
W9KXI	178	83	17596	1 70 29	1 76 33	20 0	3	10	2 7	1	   1 1		1	1			
WA3YUE	171	49	15386	44 11	64 18	21 7		20	6	62	7 2	62	3 1	i			
W2BVH	197	55	15235	71 17	78 18	17 6		19	6	4 3	63	22		1			
W2KV	208	53	14893	50 8	91 23	8 2	- 1	56	18		3 2						
W3JG	218	47	13254	88 20	82 21	19 2		21	2		82						
K3GNC KC3BVL	212   153	49     34	12593 12376	67 12   26 5	100 26   36 6	17 5   25 5		28 28	6 5	   11 4	   16 4	   8 4	1	   3	1		
N3ITT	218	54	12042	127 26	86 25	3 2		20	1	11 4 	1 10 4	0 4	1	1 3	Ŧ		
WB3IGR	134	59	11800	27 9	61 24	191		17	8	4 3	64			Ì			
KC3NDU	146	69	11523	81 32	48 25	Í	i	15	10	Ì	22	i	i	i			
K2TXB	172	53	10388	59 16	105 33						8 4	1					
KA3FQS	164	30	9570	36 6	41 6	32 6		31	5	10 2	92	3 2	2 1				
W2SJ	188	33	9570	66 12	46 9	27 4		36	6		13 2   3 1						
N2DEQ K0BAK/R	164   73	40     28	8240 7784	77 11   9 3	59 20   9 3	72  93		16 9	4 3	1 1   9 3	3 I   9 3	1 1   9 3	162	1	2		
K3MD	140	48	7248	67 17	64 23		i	8	7		1 1		0 2	1 -	2		
N3YMS	126	36	7164	27 6	38 12	,   28 9	i	27	6		63	i	I	i			
W3ICC/R	90	34	6392	15 6	21 6	21 6		19	6		10 5	4 3					
	142	42	6258	59 14	76 24			7	4	1							
W3HMS	107	46     45	5796 4275	59 21   21 10	31 13   34 21	12 8   6 4		4 12	3 9		1 1			1			
WX3K WG3K	74   72	40	4275	21 10	28 14	65	÷	12 4	9 4	1 2 2	$  \perp \perp$   1 1		1	1		2	2
K3DFL	89	27	2727	49 13	28 9	0 0	i	12	5			i		i I			2
AA2SD/R	103	18	2682	27 3	38 3	,   19 3		15	3	2 1	21	i	İ	i			
K2WB	86	20	2020	32 6	39 10	4 1		11	3								
KE5NJ/R	82	28	1876	10 -	60 -	5 –		7	-	1			1				
K3JJZ NN30	90   79	13     22	1755 1738	23 3   79 22	22 4	19 3		26	3		1			1			
NN3Q N3PLM	81	22	1640	55 11	1 25 8	1 		1	1	1 	 		1	i I			
NA20	67	23	1541	31 12	36 11		i					i		I			
KC2SGV	69	13		19 3		14 3	1	14	3			1					
W3RJW	54	19		54 19		l		1.0	,	1			1	l.			
WA3RLT	28   21		320		16 4   8 3	1		12	4				1	1			
KB3SIG KA3WXV	21			13 5   9 2	8 3   9 2	   2 1	1	2	1	1	1	1	1	I I			
			140			1 10 7		-	-	- 	· 	i	1	i I			
	13		138	2 1	52	2 1		2	1		21	i	Ì	i			
NEJI	20	5	120	12 2		2 1		2	1			1		1			
Multi-Ops Call			Score	6M	Contac <sup>.</sup> 2M	222		432	2	902/3		2.3GHz	3.4GHz	5.70	GHz	10G	Hz
 N2NT		I 150 I	132150	   271 56							 	·	 I				
Ops: N2NT			102100	1 211 30	1 200 10	, , , , , , , , , , , , , , , , , , , ,	÷ 1	100	20	I	I		I				
-	463	131	124581	138 32	141 39	53 1	5	49	14	21 6	26 7	13 6	11 5	8	5	3	2
-			10841		I	I						I		1			
Ops: N3EX	A KS3Z																

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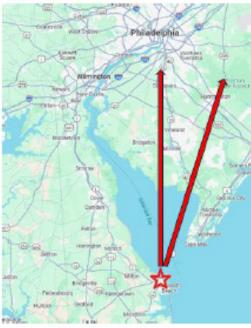
## Pack Rat QSOs and Pack Rats worked 2025 January VHF Contest

Call	Oper	Power	Total	Total	Call	Oper	Power	Total	Total
	Cat	Cat	QSOs	Rats		Cat	Cat	QSOs	Rats
N3NGE	MO	HIGH	216	48	K2TXB	SO	HIGH	72	38
WB2RVX	SO	HIGH	199	44	K3JJZ	SO	HIGH	69	19
N3RG	SO	LOW	189	43	NJITT	SO	LOW	68	40
WA3NUF	SO	HIGH	183	49	WA3QPX	SO	LOW	65	32
K1RZ	SO	HIGH	165	31	WB3IGR	SO	LOW	64	25
N2NT	MO	HIGH	165	50	KOBAK/R	RO	LOW	64	8
WA3DRC	SO	HIGH	145	41	NE2U	SO	LOW	52	32
WA20MY	SO	HIGH	141	47	KC2SGV	SO	LOW	51	16
W3SZ	SO	HIGH	138	28	W9KXI	SO	HIGH	48	25
W2SJ	SO	HIGH	134	38	KC3NDU	SO	LOW	45	25
KA3FQS	SO	HIGH	129	34	NJFTI	SO	HIGH	42	42
KC2TN	SO	HIGH	122	40	КЗМD	SO	LOW	37	23
WA3GFZ	SO	LOW	121	39	K3DFL	SO	LOW	37	24
KC3BVL	SO	HIGH	115	24	W3HMS	SO	HIGH	34	20
N2SCJ	SO	LOW	113	44	NA2O	SO	LOW	28	21
WA3YUE	SO	HIGH	109	34	N3PLM	SO	LOW	27	19
K2EZ/R	RO	HIGH	107	9	WG3K	SO	LOW	25	14
K3GNC	SO	HIGH	97	38	WA3RLT	SO	LOW	22	12
W3KM	SO	LOW	90	43	WX3K	SO	LOW	19	14
W2BVH	SO	HIGH	89	36	KA3WXV	SO	LOW	18	11
N3YMS	SO	QRP	87	26	NN3Q	SO	HIGH	17	17
W2KV	SO	HIGH	86	33	NEJI	SO	LOW	16	9
N2DEQ	SO	LOW	81	38	W3GAD	SO	HIGH	12	4
AA2SD/R	. RO	LOW	79	16	KB3SIG	SO	LOW	10	7
W3ICC/R	RO	LOW	74	12	K3WHC	SO	HIGH	2	2

## **KE5NJ** Rover Report

Score Statistics						
Total Contacts	82					
Total QSO Points	67					
Total Multipliers	28					
Total Score	1,876					

The KE5NJ Amateur Radio Bus was in FM28ks on Saturday and FM29el on Sunday. The first location was at Cape Henlopen State Park in the campground. The park grounds close at 5 pm so to stay later I rented a camping site. The elevation there is approximately 55 feet add 35 feet with my generator tower, so antenna height was about 90 feet above sea-level. That doesn't sound very high, but the location has a straight shot up the Delaware Bay into Pack Rat Country



Bands on Saturday were 6m, 2m, 1.23m, 70 cm

A whole new antenna stack was set up for this and future contests and a new G-800 Yaesu Rotator. This location offered a good shot right





up the Delaware bay with no nearby obstructions. I operated SSB and FT8. FT8 is all new to me. I recently set up both the IC-9700 and IC-7300 for FT8 and learned a lot. I added extra monitors to display PSK Reporter and other applications so I wouldn't be confined to one small screen



Sunday was a different story. Scott (AA2SD) and I planned on meeting up at the highest location in Delaware Ebright Azimuth (445 feet). The weather looked disastrous, so Scott didn't make it, and I confined myself to my driveway and on 13 element 2 meter beam. With potential freezing rain I didn't want to be out there with the bus and have to break



and in June Scott and I will be up at 100 Mile View Campground near Jim Thorpe. For that contest I'll have the same antenna stack but add my 45 element 1296 Looper on top I didn't get to use in this contest.

ice off antennas to take it down. Fortunately, all we got was about 2 inches of snow. Even from the driveway I managed contacts as far away as Connecticut. I operated SSB for the Pack Rat Bowl and FT8 until it got too cold in the bus. I learned a lot





AA2SD/R on the road to Mullica Hill from Cape May for the Pack Rat Bowl

## AA2SD/R Troubleshoots During the Jan 2025 Contest with Weather and Multiple Equipment Failures.

AA2SD/R Rover - Jan VHF Contest 2025 - This Rove was one of the poorest performing trips as I was plagued with equipment issues, poor band conditions and threatening weather. My initial plan was to visit (6) Rove locations, I did achieve (4) locations, and had to end the rove due to the snow and icing and did not make my last 2 stops.



First Stop Bell Labs Transistor Tower North Jersey FN20 and Mast Issues during take down

Saturday Day, Stop 1 FN20 Bell Labs North Jersey, I arrived 2 hours early to the Bell Labs location and set up next to the Transistor Tower at a good elevation. I discovered that my roof rack fiberglass extension pole had an extensive fracture due to the cold. I spent almost 2 hours taking down the roof rack, removing the roof mount, and reassembling the remaining metal roof rack. After this reassembly I set up my larger mast with 20 feet. The bands were extremely slow and I worked 20 contacts from this location which was very disappointing. Upon lowering my mast with (6) antennas my Rover mast bent due to the extensive weight of the additional antennas, I have added 2 looper antennas. The weather at this location was freezing rain, making it more difficult to set up and take down antennas.



Shortened Rover Rack in Navensink NJ FN30 at my second Stop

Saturday Evening Stop 2 FN30, I now moved onto FN30 in Navasink at the High School with good elevation and no functionable rotor mast. I worked (14) contacts from this location and decided to head back to Cape May to regroup in the early morning. The temperature dropped and working outside during the evening was getting the better of me. I was able to stop along the parkway south and work Joe KC2SGV from my new lower profile mounted Halos.



Cape May Antennas set up with a shorter mast as the Ferry heads out

Sunday Morning, Stop 3 Cape May FM28 - I got up early in the cold morning and cut and salvaged the damaged mast with a new clevis pin, now at a reduced 15 feet and re-mounted with my smaller ELK antennas. I was positioned at the entrance of the Cape May canal, early morning, and now back in the game. I was able to work (35) contacts with this compromised set up. Unfortunately an older DEMI 22MHZ transverter lost its receive capability and I lost the band. I have a back up Ukrainian transvester with lower power, and I got this back in place before departing Cape May. I was pleased to work Dave K1RZ and Joe KC2TN and several other Rats from this location.



Mullica Hill Set up Stop 4 Snow and Icing Start as I arrive back to Cape May

Sunday Afternoon, Stop 4 Mullica Hill NJ FM29 - I was able to get to Mullica Hill NJ set up in place within easy reach of most Pack Rats. I planned to be available from 2-4PM for the Pack Rat Bowl. I was able to work over (40) contacts during this 2 hour period. Again the weather played a significant role as icing, and the snow started to move in. I decided to call it a contest and head back home to lick my wounds and regroup and warm up. The highlight of this spot is that I was able to work Bob W2SJ on 1296, and Mike WB2RVX on both 903 and 1296 phone with my smaller rover lopper antennas. I also worked Ray N3RG on 1296 phone coming up and stopping on Route 55 north bound, and finished a 903 CW contact with Ray stopped southbound from Route 55 on the return trip home. I did see an uptick in band activity with the Pack Rat Bowl, but with poor band conditions and the the Eagles football game, it was still a slowing period after 2 hours.

#### Summary of the January Rove 2025

- 104 contacts, I, worked 6 Bands 7 Multi Grids
- Over 415 miles windshield time from the time I departed home and returned
- Achieved (4) grids of the (6) planned, due to weather restrictions
- · Fiberglas Mast cracked and removed due to temperature
- Large Mast Bent due to overloading with antennas
- 222 Mhz Transvertor, no receive, replaced with back up

Despite my setbacks, I enjoyed the challenge of my Rove, and learned how to trouble shoot and stay in the game. I was successful with 903 and 1296 loopers on the roof rack for a future contest. Staying positive and regrouping after a dismal first day and working solutions got me back in the game on Sunday. I am glad this one is over and in the books, and I can start on improvements for the next contest.

#### Thanks to all that worked me during the contest !

73 Scott AA2SD/R

# **K2EZ Rover Pictures**



Obligatory Rover gas station photo



K2EZ/R with KG6CIH/R

# January Contest Wrap up Meeting in Pictures









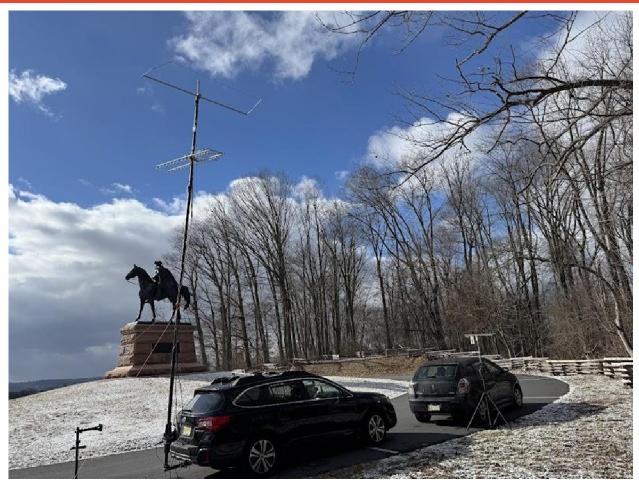


# January Contes Wrap up Meeting in Pictures



Cheese Bits

## Pack Rat Members Come Together to Assist AA2SD/R Rover Complete a Microwave Test with AA2SD/R and KC3BVL



AA2SD and KC3BVL set up at the General General Anthony Wayne Monument Overlook Grid FN20GC60PC

**AA2SD/R Rover - Valley Forge, PA Jan 2025 -** During a blustery early Saturday Morning Jim "KC3BVL" and myself set up for a microwave band test from the Valley Forge location. This is the second time I have used the microwave bands and I am still familiarizing myself with the technique and overall equipment set up as a new Rover.

I was pleased to work "Bruce" WA3YUE on both 1296 and 903. I also worked "Gary" WA2OMY on both bands with his very near location. "Tom" KA3FQS was a more difficult QSO as we could hear CW, but no luck on phone 1296. I was also able to work "Jim" W3JG on 6 Mtrs after troubleshooting my equipment and 1296 Mhz over phone with both bands. "Jim " KC3BVL also set up his Pluto SDR and deployed a 45 element looper. A special thanks to Gary for dropping off the oversized mast from the recent auction, this will go to good use at my QTH.

Conditions were not the best, as I attempted to work Dave K1RZ, I could hear his 1296 signal with no issues, but my weaker station was not overcoming his local QRM. Overall the antennas, mast and con-

## Pack Rat Members Come Together to Assist AA2SD/R Rover Complete a Microwave Test with AA2SD/R and KC3BVL

nections all came together with the FT817 using IF switching with 2 transverters and 40 watts. I was also testing a new passenger seat Rover desk set up to deploy during the Jan VHF Contest.

### You can watch a Short Video of the morning here on You Tube https://www.youtube.com/shorts/fFubATjFuPI



Rover Set up with the FT891, FT817, Rotor Control and Laptop Tray in the Passenger Seat

I would like to wish all of the Club members with success, health and happiness during 2025 for the New Year. I look forward to working you during the January VHF Contest.

Rove Contest Information https://www.aa2sd.com/1296-903-2024-jan-vhf-contest

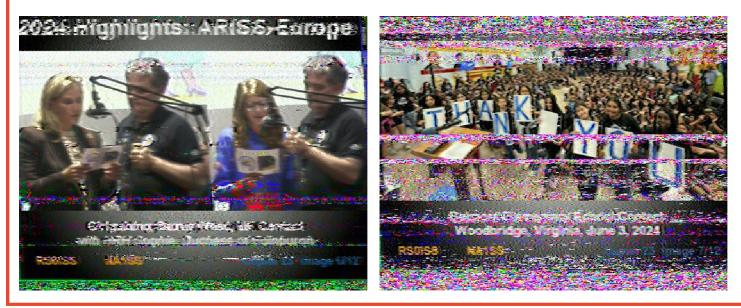
Parks on the Air Spotting Page <u>https://pota.app/#/</u>

## Latecomer to ISS SSTV

Always looking for another fun thing to do with ham radio, I revitalized my satellite activity using the LEOs (Low Earth Orbiting) birds. I have been an AMSAT Life Member almost from its inception in the late 1970's when I lived in Rhode Island. I operated OSCAR 7 & 8 and in 1982 I completed Worked All States Satellite #83. Now, more than 40 years later, I was inspired to use the ubiquitous Baofeng walkie and a homebrew WA5VJB "cheap Yagi" to make more satellite QSOs and also lead a small project for some other local club hams to get on the birds. The satellite footprint as it flies over Florida also includes the northern parts of South America, all of the Caribbean, westward to Mexico, halfway across the US and north to the heart of Packrat territory as I logged QSOs with stations in FN20 and FM29!

I was alerted to the International Space Station's broadcast of Slow Scan Television pictures and wanted to take advantage of the opportunity to download some pictures myself, having missed the opportunity as there have been several periodic broadcasts of SSTV from the ISS over the past few years. I dabbled in SSTV in 1971-73, building a homebrew SSTV receiver with a P7 tube obtained from old military surplus and an article and schematic from QST. Now I needed only four things to get going: the satellite schedule, 144/432 walkie, homebrew 2m antenna (2-4 elements will do), and smartphone with the SSTV app downloaded to it. You probably can use any of your 2m rigs that can receive FM on 144.800MHz to receive and record the audio and then play it into an SSTV program, or do like I do and hold the smartphone close to the audio output and see the picture develop live as you track the satellite when it flies overhead. Unfortunately, as you read this issue, the December 25-January 5 SSTV series will be off the air. Likely there will be more ISS SSTV to follow later on in the year. In the meantime, there are several passes a day by several satellites where you can make FM, digital or SSB/CW QSOs if you are capable of both azimuth and elevation of your antennas for 144/432, or purchase or make a 2-band Yagi for satellites (find WA5VJB "cheap Yagis" on-line).

Using the hand-held antenna, recordings were fair and I had to try to track the satellite over the usual 10-minute window of visibility while also trying to maximize the signal by gently rotating the beam from horizontal to vertical plane. The actual SSTV picture takes about 2 minutes to download and develop across the screen. There was also a learning curve to use of the SSTV software, selecting the proper decode of PD120 and then adjusting the phase and skew sliders to optimize the result. My first attempts a series of color frames that slightly overlapped. I was able then to learn to use the phase slider to find the best composite color picture. The skew control allows the picture to be positioned without being tilted. Here are a few of the captured pictures and my "award" for submitting them to AMSAT. 73, Rick **K1DS** EL96vm



## Amateur Radio on the International Space Station Любительское радио на борту Международной космической станции



#### No 232798

#### **Rick Rosen K1DS**

Received SSTV images from the ISS cortaining memories of ARISS events in 2024. The images were sent via an amateur radio system installed on the Russian Segment of the International Space Station. Принял SSTV изображения с MRC, содержащие воспоминания о событиях ARISS в 2024 году. Изображения были отправлены через радиолюбительскую систему установленную на Российском сегменте Международной коспической станция.

Руководитель Радиолюбительской Деятельности на МКС Серкей Cawбуров RV3DR ARISS International Chair Frank Dave: KA3HBO ARISS Europe Chair Oliver Amend DG68CE ARISS USA Director of Operations Will Marchant KW4WZ Memor ARISS Europe Armand Budzianowski SPIQFE ARISS SSTV Award Manager Slawomir Szymanowski SQ3OOK







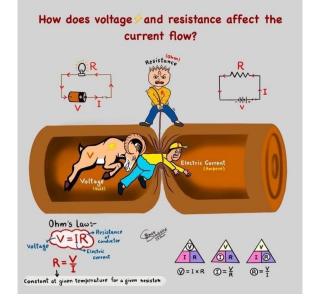
Happy Holidays · Счастливых праздников - Buon Natale - Feliz Navidad - Feliz natal Joyeuses fêtes - Fröheliche Feiertage - Wesolych Świąt - Prettige Feestdagen - 聖誕快楽 ハッピークリスマス

APPY NEW YEAR

# **Editor Emeritus Notes**

A couple of things submitted by Lenny, W2BVH. On the left an organic eatable circuit board (not the components thoughg). Ont right a graphical representation of Ohmm's lae.





## The Wayback Machine

We still need someone to take over for Bert and write this column each month. Ideally this person would have been a member of the Pack Rats for a while to provide insight into the text of the archived Cheese Bits but this is not necessary. Bert did the hard work of scanning in the old editions and posting them on the webpage so little or no research needs to be done. Please come forward and assist the club and this newsletter.

Tom



# SATURDAY April 26, 2025

Cheer Community Center 20520 Sand Hill Rd. Georgetown, DE 19947

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J.S.SED

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February 2025



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**Events & Attractions ARRL State Convention** Tail Gating Great Food **Blood Pressure Testing Chinese Auction** Raffle...Big Prizes! **License Testing** Guest Speakers/Forums QSL Card Bureau/Card Checking Door Prizes

Guests Pay \$8 To Enter! (Under 18 FREE!) Inside spaces \$15.00 - 1st Table Tailgaters : \$10,00 - First Space

# Gates open at 6:00 A.M. Expo begins at 8:00 A.M.

#### Schedule

6:00 AM	Gates Open
7:30 AM	Tailgating
8:00 AM	Indoor expo venue opens
	Restaurant available
12:00 PM	FCC testing -No test fee, pre-registration required
	Last test seating at 12:30 PM

Speakers Forums

ARRL Update Others

#### TALK-IN: SARA Repeater

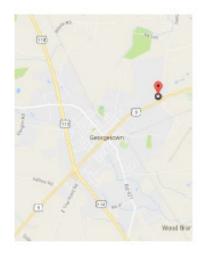
147.090 mHz PL 156.7

Schedule subject to change

For Information Contact Jamie, W3UC (410) 202-7690

hamfestdelaware@gmail.com

### HAMFEST LOCATION:



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# Regularly Scheduled On The Air Events

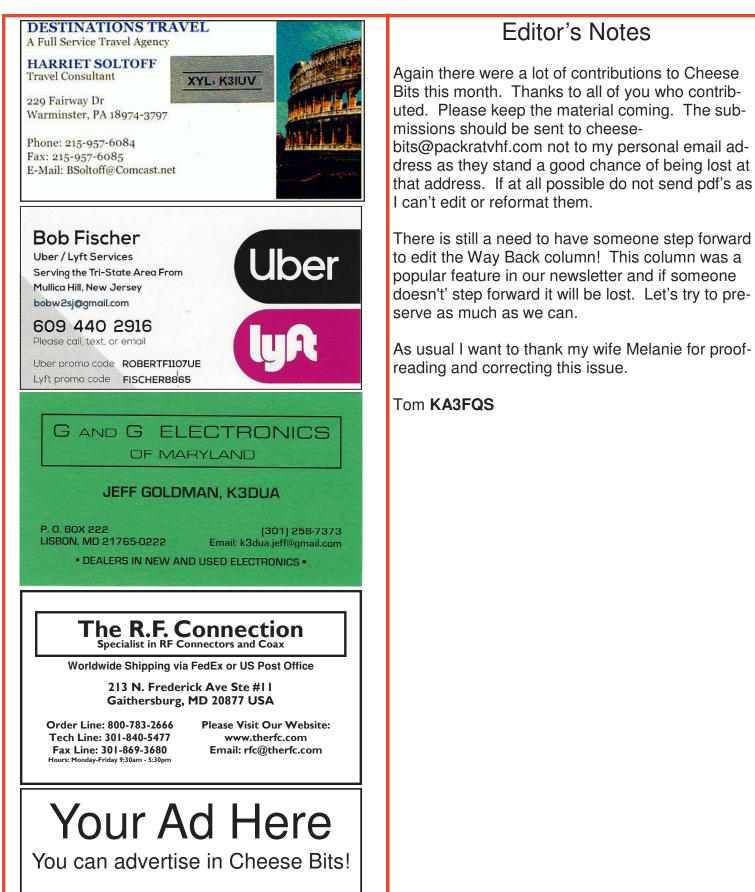
**VHF/UHF Monday** - Every Monday except holidays and contest nights the following nets are held, 224.58 MHz FM Repeater at 6:45, Packrat Talk Group DMR net at 7:00 PM, 50.150 MHz USB NCS N3RG FM29ki at 7:30 PM, 144.245 MHz USB NCS W2KV FN20os at 8:00 PM, 222.125 MHz USB NCS KC3BVL FM29jw at 8:30 PM, 432.110 USB NCS WB2RVX FM29mt at 9:00 PM.

**1296 MHz Activity Night**—There's an informal 1296 activity night in the NY/NJ/PA/CT region (and beyond) every Monday night starting around 9:30 pm (or so) on 1296.110. No coordination, just jump in and say hello.

**222 MHz Activity Night**—There's been an informal 222 activity night in the Northeast (and beyond) every Tuesday night starting around 7 pm (or so) Eastern Time. ON4KST is being used by some to coordinate Q's when direct CQ's are weak.

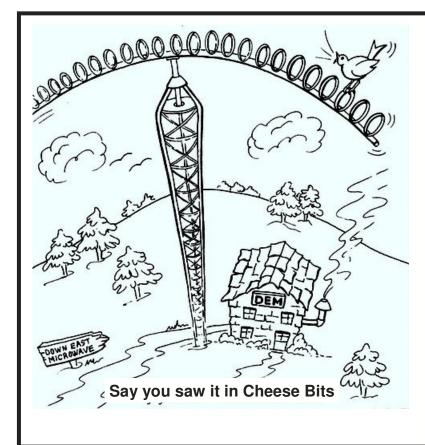
**KC3BVL UHF+ Wednesday Net**—Packrat, Jim KC3BVL conducts a Wednesday night net with schedule as follows: 7:30PM—903.100, 8:00PM—1296.100, 8:30PM— 2304.100.

**KC3BVL VHF Friday Net**—Packrat, Jim KC3BVL conducts a Friday night net with schedule as follows: 7:30PM-144.160, 8:00PM-50.160, 8:30PM- 222.150, 9:00PM-432.160



For details and rates contact Bob Fischer, W2SJ 23 Morning Glory Circle, Mullica Hill, NJ 08062 (609) 440-2916

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