



PACK RATS'

CHEESE

BITS



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

MT. AIRY VHF RADIO CLUB., "THE PACK RATS", PHILADELPHIA, PA.

W3CCX

NET FREQUENCIES: 50.150, 144.150, 222.125, 224.58/222.98, 432.110, 903.100, 1296.100 MHz

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

ARNS

Meetings: Third Thursday of each month at 8:00 PM
Southampton Free Library, 947 E. Street Road
Southampton, Pennsylvania 18966

VOLUME XXXVI

January 1994

NUMBER 1

THE PREZ SEZ

At our secret contest strategy meeting a wealth of operating hints were presented by chairman Phil, WA3NUF and several of our top guns. If you need a little assistance with that last minute project or haven't received your contest package yet, get in touch with your team captain or WA3NUF.

We've learned that our Rochester rivals may not be submitting a club score in this year's January contest as a protest to The League's lack of action regarding the rover rule scoring inequity. As you may remember, last January Stan Hilinski, KA1ZE and friends demonstrated how several rovers could dance around a 4 corner grid intersection, work each other rover, and rack up a 6 MILLION point score! This can hardly be considered playing the game "fair and square" ... the problem arises with the way that rover scores are computed. The rover is able to count grids multiple times by moving to a new grid! As Stan pointed out at our conference in October the score he obtained was grossly inflated compared to the level of effort required. This issue has been raised repeatedly with the Contest Advisory Committee and the ARRL Contest Department by the Packrats and many other VHF clubs, but as most VHF weak signal issues it probably fell very low on the league's priority list.

The Packrats share the same frustration that Rochester and other clubs have expressed. We have written to our League and the CAC regarding the rover scoring inequity. But we WILL be participating in the January contest. The contest has been a key activity for The Packrats since the clubs' inception in 1956. Our founding fathers felt so strongly about this activity that participation is required to maintain club status! We hope that our club rivals will be there in The Sweepstakes, whether they submit a club score or not (see open letter by WA3NUF). Although we may have to work a little harder on improving the rules, we can't let our forefathers down! It's up to every Packrat to give his best effort in the upcoming contest!

73, and a happy and happy New Year to all
Paul Drexler, WB3JYO

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(215) 355-5730

PACKRAT 222 MHz REPEATER - W3CCX/RPTR

222.98/224.58 MHz, Churchville, PA

OFFICERS: 1993-1994


PRESIDENT: WB3JYO, Paul Drexler
VICE-PRES: WB2OMY, Gary Hitchner
REC. SECR: WA3AQA, Walter Zumbach
TREASURER: WA3JUF, Dave Mascaro
COR. SECR: N3AOG, Dick Comly
DIRECTORS: N3EXA, Brian Taylor (1 YR)
K3ESJ, Bill Jaxheimer (1 YR)
WA3AXV, Ron Whitsel (2 YRS)
WB2YEH, Bob Fisher (2 YRS)

MONDAY NIGHT NETS

| <u>TIME</u> | <u>FREQ.</u> | <u>NET CONTROL</u> |
|-------------|--------------|--------------------|
| 7:30 PM | 50.150 MHz | K3EOD |
| 8:00 PM | 144.150 MHz | W2EIF |
| 8:30 PM | 222.125 MHz | WB2YEH |
| 8:30 PM | 224.58R MHz | K3ACR |
| 9:00 PM | 432.110 MHz | WA3AXV |
| 9:30 PM | 1296.100 MHz | WA3NUF |
| 10:00 PM | 903.100 MHz | N3AOG |

COMMITTEE CHAIRMEN

LADIES' NIGHT: WA3YUE 215-666-1558
JUNE CONTEST: WB3DNI 215-672-5289
HAMARAMA: WB3JYO 609-538-1687
VHF CONFERENCE: KB3XG 215-270-3158

THE AMERICAN RADIO RELAY LEAGUEOST

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and
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215 355-5730

HARRY B. STEIN, W3CL AWARD

As you know, the Mt. Airy VHF Radio Club has sponsored an award for Third place in the Multiop category in the June VHF QSO Party. The members of the board of directors have voted to change the name of the award to "The Harry B. Stein, W3CL Award" in honor of Harry. The change will be effective for the June 1994 contest.

Calendar of Coming Events-January 1994

Jan.

- 1 New Years Day.
- 3 Predicted peak of the Quadrantids meteor shower at 1843 UTC.
- 13 Board of directors meeting at the QTH of Harry, W3HIT. All interested parties welcome. For directions call 215-584-4846. Meeting starts at 8:00 P.M.
- 17 Martin Luther King Jr. Day.
- 20 Regular meeting of the Mt. Airy VHF Radio Club at the Southampton Free Library on Street Rd. in Southampton, Pa. All VHFers and would be VHFers and friends are welcome. Last minute tuneup session in preparation for THE contest.
- 23 Dutch Country Computer and Communications Show at the Lancaster Host Golf Resort and Conference Center on Rte. 30 between Lancaster and Ronks, Pa. TI on 146.715.
- 22-25 THE CONTEST. Everyone's help in getting at least 51 logs submitted this year is necessary to qualify the club for the Unlimited Class in the club competition. See Dec. QST page 128 or consult your contest package for the rules.
- 30 Maryland Mobileers ARC Post Holiday Swapfest and Flea at Odenton Vol. Fire Dept. Hall in Odenton, Md. VE Exams. TI on 146.205/.805

Feb.

- 12 January Contest Wrapup Session at the QTH of Bob, WB2YEH starting at 10 AM. Get your logs and check sheets to your contest coordinator so they can be checked and submitted. Everyone is welcome at this fun event. Call 609-665-8488 for directions.

HEALTH AND WELFARE

Joe, W2EIF, had surgery and was about to get out of the hospital as of the December club meeting.

Ralph, WR3P's wife and mother had recent surgeries.

Warren, WA2ONA's son was recently in the hospital and was due out just before Christmas.

TID BITS

The Dayton ARA is accepting applications for it's 1994 scholarships and awards. For information, contact Stan Kuck, KY8F at DARA Scholarships, 45 Cinnamon Ct., Springboro, OH 45066-1000. For award nominations, contact Barbara Hillman, N8EYW at DARA, P.O. Box 44, Dayton, OH 45401.

The East Coast 70 CM net meets each Wednesday night on 432.090 at 9 PM EST. Net control id Charlie, WD4MBK located in EM73VX in Atlanta, Ga. The net starts with calls to the Northeast and swings clockwise. The net frequently runs to 10:30 or so.

The Jan issue of N.E.W.S., the newsletter of the North East Weak Signal Group reports that this newly ARRL affiliated club now has over 100 members. Looks like formidable competition in the January contest.

Paul, WB3JYO's 144 MHz preamp article from the Oct. issue of Cheesebits appeared in the Nov. issue of "The VHF-UHF DXer", a newsletter from the UK. It's great how the info gets spread around the amateur community. We've published a few tech items from them in the past.

Packrats N3CX, W0RSJ, WB3JYO, WB2YEH, N3ITT, WA1YHO, WA3AQA, W2EIF, WD5BRP, AND W3HQT (via W1WHS participated in the September VHF QSO Party. WB2YEH and WB3JYO were first and second in the SNJ section.

TID BITS CONTD.

Per the Dec. 93 issue of The Journal of the Rochester NY VHF Group, there is a 2 Meter net on Sunday evenings on 144.263+/- at 7 PM. The net is run by John Walker, WZ8D and Tom Whitted, WA8WZG.

The SJRA reports that K2AA will be operating the January VHF Sweepstakes from High Knob, Pa. on at least 2m and 440 MHz.

The Saratoga County NY RACES Organization Beacon, WA2UMX, has been on the air since Feb. 1993 in FN23XC. It operates from Providence, NY on 144.290 MHz with 20 watts into a phased pair of Big Wheel antennas. Propagation reports should be sent to WA2UMX.

Our man in Denver/Seattle, Chuck, WA1KIR, reports of two trips to Russia over the last few months. Seems that they need some tips for the January VHF Sweepstakes (just kidding, it was business-talking about some space stuff).

Just got another card from Wandering Richard, K2EVW. This time he says he is laying around in the sun. The stamp on the postcard says REPUBLIKA HRVATSKA. Any DXers out there know where that is? He still hopes to be home and operational from sunny Va.

NEW MEMBER

N3PER, Ken Bromberger, Buckingham Pa.
2824 E. Fox Chase Circle
Doylestown, Pa. 18901
215-794-8585

ARRL INCOMING DX OSL BUREAU'S

2nd Area: NJDXA, PO Box 599, Morris Plains, NJ, 07950

3rd Area: PO Box 448, New Kingstown, PA 17072-0448

VE1MQ 6 METER BEACON

Per N6CL's CQ column, Mike Smith, VE1MQ 's beacon is now signing "VE1MQ/B FN65 5W ES. STACKED LOOPS (DIT, DIT, DIT [SPACE] DIT, DIT [SPACE] DIT, DIT)" on 50.073.

WEAK SIGNAL BAND ESTABLISHED ON 222 MHz

The FCC in a report and order dated 2 Dec. 1993, has ruled that the 222 MHz band from 222.000 thru 222.150 will be restricted, not allowing the use of repeaters or auxiliary operation. The same ruling allows novices the full use of the band except for control operation of repeaters. The new rules go into effect on Feb. 1, 1994.

NEW ATLANTIC DIVISION CAC REPRESENTATIVE APPOINTED

Hugh Turnbull, W3ABC, has announced the appointment of Tim Duffy, K3LR as the ARRL Atlantic Division CAC representative. Tim's address is: 102 Elliot Road, West Middlesex, Pa. 16159. I'm told that Tim has some experience in VHF contesting. We welcome him to join the fun. You might want to write him and welcome him to his new job and while you're at it tell him your thoughts about VHF contesting and the rules (not just the rover rules, please).

SILENT KEYS

Edith Rosner, W3AAU, a friend of the Packrats that worked with Dave, W3ZD and Harry, W3CL on the Bicentennial Amateur Radio Convention in 1976, recently died in Arizona. She worked at the Pentagon during WW II and later worked the military supply depot in Philadelphia. She was a co-founder of the Pennsylvania-Jersey Young Ladies Radio Amateur Radio Operators Club. In Arizona, she joined the Amateur Radio Operators Club and Computer Club and was a former member of the Sheriff's Posse of Sun City, Arizona.

Tom McMullen, W1SL. QST reports that Tom, W1SL, an old friend of the Packrats, died in mid October. Tom was active on 432 EME back when the Packrats were setting up their EME effort in W3HQT's barnyard. Tom was the fourth EME contact of W3CCX back in February of 1975 and when we operated in Colombia as HK1TL in 1976, he was one of the 16 stations in 8 countries worked.

Dick Turrin, W2IMU. The 432 & Above EME News reports that Dick Turrin, W2IMU, recently died. He was an early EME operator and contributed a great deal to VHF/UHF activity. His EME Notes were valued references for every VHFer.

Send Non-commercial swap shop items to the editor.

FOR SALE: K2RIW 432 MHz RF Deck with tubes, \$325.00. Dow Key 28 v. Coax conn, N conn., \$25.00, Dow Key Transfer Coax conn, N conn, \$25.00. TS 930S with cw, am, ssb filters and transverter port, \$875.00. Contact Woody, AK2F evenings at 201-584-5709.

WANTED: Antenna relay capable of 300 watts for 1296 MHz with N connectors. Call Chuck, WA2ONK at 609-586-7180.

FOR SALE: NO-TUNE 222 MHz transverter kits and boards, A group in the DC area had boards made from the QEX article by Zach, KH6CP/1. A set of three solder coated boards is \$28.00 and a complete kit of all parts (97 MHz XTAL, mixers, MMIC's transistors, resistors, chip caps, etc. no case) is \$85.00 postpaid. Note that this is not a "Heathkit". For info contact Ed Bruns, W3EKT, 3420 Shady Lane, Glenwood, MD 21738-9513 or call 301-854-6680.

JANUARY CONTEST LETTER

By Phil Miguez, WA3NUF

As reported in this newsletter, the Rover rule issue has infuriated many of the active VHF contesters and especially the clubs who organize each year to participate in the club competition. The Packrats share the sentiments of these individuals and groups. The present system of scoring for the rover class diminishes the incentive for individual rovers to activate rare grids and effectively penalizes VHF/Microwave clubs who don't send out rovers to dance around the grid corners. The current rover rules does nothing to promote or enhance the state of the art, it only inflates the resulting scores.

It has been suggested by other VHF groups that a boycott of the contest is the only effective protest against the ARRL who continues to dither over the rover issue. A call has gone out to all clubs that normally compete in the January VHF SS to take a stand. Due to the strong polarization and uncertainty this issue has created, the Packrats feel compelled to state their intentions for the upcoming contest.

Although we are strongly opposed to the inequitable imbalance created by the rover rules, the Packrats will participate as usual in the 1994 VHF SS. The Mt. Airy VHF Radio Club has participated in the VHF SS since the early beginnings of this contest. It is a tradition that is a corner stone of our club's very existence. The Packrats will not take advantage of the rover rules. Those members of our club who enter the rover class will be true rovers, individual stations activating new grids and working as many new stations as possible.

We cast no stones against those who decide to boycott, we realize it is a difficult decision. For our part we do not believe that you can change anything that you don't participate in.

The majority of VHF operators have never heard of the rover controversy. We hope to correct that problem in our own small way. The packrats have written letters to the CAC and the ARRL and even hosted a forum on the rover issue at the Mid Atlantic VHF Conference in which a League representative participated. It is obvious to us that the League does not respond to their mail. We hope the more public forum provided by this and other news letters stirs them into action. Cheese Bits has a wider circulation than an individual letter to the ARRL.

ROCHESTER VHF GROUP TO BOYCOTT JAN VHF SS

The Rochester VHF Group has decided to boycott the ARRL VHF Sweepstakes Club competition. Apparently after a lengthy discussion, they made this difficult decision. Although they will not enter as a club, most of their membership will be in there fighting it out individually. The Packrats look forward to a good fight with them next year as with everyone else that enters.

PROPAGATION REPORT

By Bill Murphy, WORSJ

Apparently everyone is busy working on projects for THE CONTEST so there's no propagation to report this month. Call me with your report so I can include in next month's Cheesebits. My number is 215-252-3956 at home or 908-234-3888 at work.

For those of you who are out of the region, if the band is open and you want people to get on I can help. That is to get the message out immediately to the VHF Community in the Mid Atlantic Region. Call 1-800-258-0000. My PIN # is 2881997. Enter your phone number and 999 (so I will know that it's not a work call) and I will call you back. This is a Sky Pager number and I have it with me all the time.

Tnx and good DX

CHEESEBITS SUBSCRIPTIONS

Cheesebits subscriptions are available to everyone interested in activities and information from the VHF through the microwave frequencies. Subscriptions are for 1 year of 12 issues. For a subscription, send the following information:

Name: _____ Call: _____ Street Address: _____
Town: _____ State: _____ ZIP: _____

Subscription Rate: \$10.00 per year (USA), \$12.00 (Canada), \$15.00 (Worldwide)

January 94

Send to:

SUBSCRIPTION/ADVERTISING MANAGER:

Bob Fischer, WB2YEH.
7258 Walnut Avenue
Pennsauken, NJ 08110

AN EDITORIAL COMMENT: ROVER RULES

By Harry, W3IIT

A lot of space has been consumed by articles and letters in reference the Rover rules in the January contest. The space is going to be taken over, starting in February, by it's rightful occupants- technical articles, operating news and any other thing that is sent to me (within some discretion on my part). I'd like to add my thoughts on the rover rules :

1. Stan Hilinski had been trying to get the attention of the contest rule makers for a long time. He and his crew merely told the facts: the emperor has no clothes (the rules result in contest scores that do not reflect the effort that goes into them).
2. I applaud Stan for his action. It was a tough decision to go through with. As far as I know, he went strictly by the rules. He even had a GPS receiver to know exactly which grid he was in. He did not pass the microphone around to make contacts. The rigs all had decent capabilities - many watts output in most cases and high gain antennas such as loopers and dishes. He was equipped for weak signal operation although the rover contacts certainly were not. Ever word anyone a mile away in a contest while both of you were running a hundred or so watts? And each of the rovers had several hundred contacts with non rovers. Wasn't this part of the operation within the rules?
3. Suggestions have been made from some contest groups that a cure to the "rover rule" problem is to not change the rover scoring system for rovers but to eliminate the addition of rover scores from club competition. In other words, clubs with members that operate as rovers would be shut out from contributing to their clubs score. How would this help create more VHF/Microwave activity? Allowing rovers to use a different scoring method than fixed stations (counting grids multiple times only results in "pin ball game" scores as Stan and crew demonstrated. I am strictly against not including rover scores with the rest of the club scores. Why? It's because I believe that club activity in VHF contests does a great deal in creating activity on the VHF bands. Club members build rigs and get them on the air to help their club be more competitive in the contests. Being able to help their club to be competitive is a powerful motivator. Why do you think it works in the low band contests? VHF Clubs create interest in VHF/Microwave activity by sharing their members knowledge and skills with each other and by recruiting others into the wonders of the higher frequencies. For the most part, where there is a strong amount of VHF/Microwave activity, there are strong clubs. Look where the activity is. It's not that there aren't pockets of activity where there are no clubs but it sure is easier to get on the air and figure things out when there's some local interest and help.
4. I'm frustrated with the ARRL/Contest rule making situation. It seems like the rules sorta pop out when you read about an upcoming contest in QST. Until you get QST, you have no idea that there is a change is here or what it's impact might be. I have no insight on what rule changes are being considered or even the process involved. I do know that requests for changes are made with no feedback on if they are being considered or not. I also know is that the CAC suggests rule changes and some ARRL committee of directors reviews the suggested changes and either accepts them or makes changes that the directors want. I'm led to believe that the CAC suggestion are not rubber stamped and even the CAC is sometimes surprised when the new rules get printed. Why can't the contesters be more actively involved in the process?
5. Volunteers need to be thanked a lot more (I'm not sure that they are thanked at all). It's a real thankless job to be on the CAC or even be an ARRL director. They have to have thick skins. Some people just are never satisfied. If you haven't yet done so, give Dave, KD5RO, a thank you the next time you talk to him on the air or drop him a line. When you send a demanding letter to your ARRL reps tell them thanks while you're at it too.
6. Happy New Year. May your grid totals set new records on all bands this year. I hope to work you all in January and maybe be more active on the air the rest of the year too. Let me know what you like or don't like to see in Cheesebits.

IF SWITCHING

By, Gary, WA2OMY

Since all of the transverters in my station use double balanced mixers, I'd like to show you how they are switched to a common IF. After some of the club members built the no tune boards, they were also faced with the same switching problem. On the next page is a diagram of the switch chassis I have in the rack of equipment covering 903 to 10,368 MHz (10,368 to be added, HI). The convenient part of this idea is that all transverters use a similar drive level and IF frequency. The most difficult part is probably finding the relays.

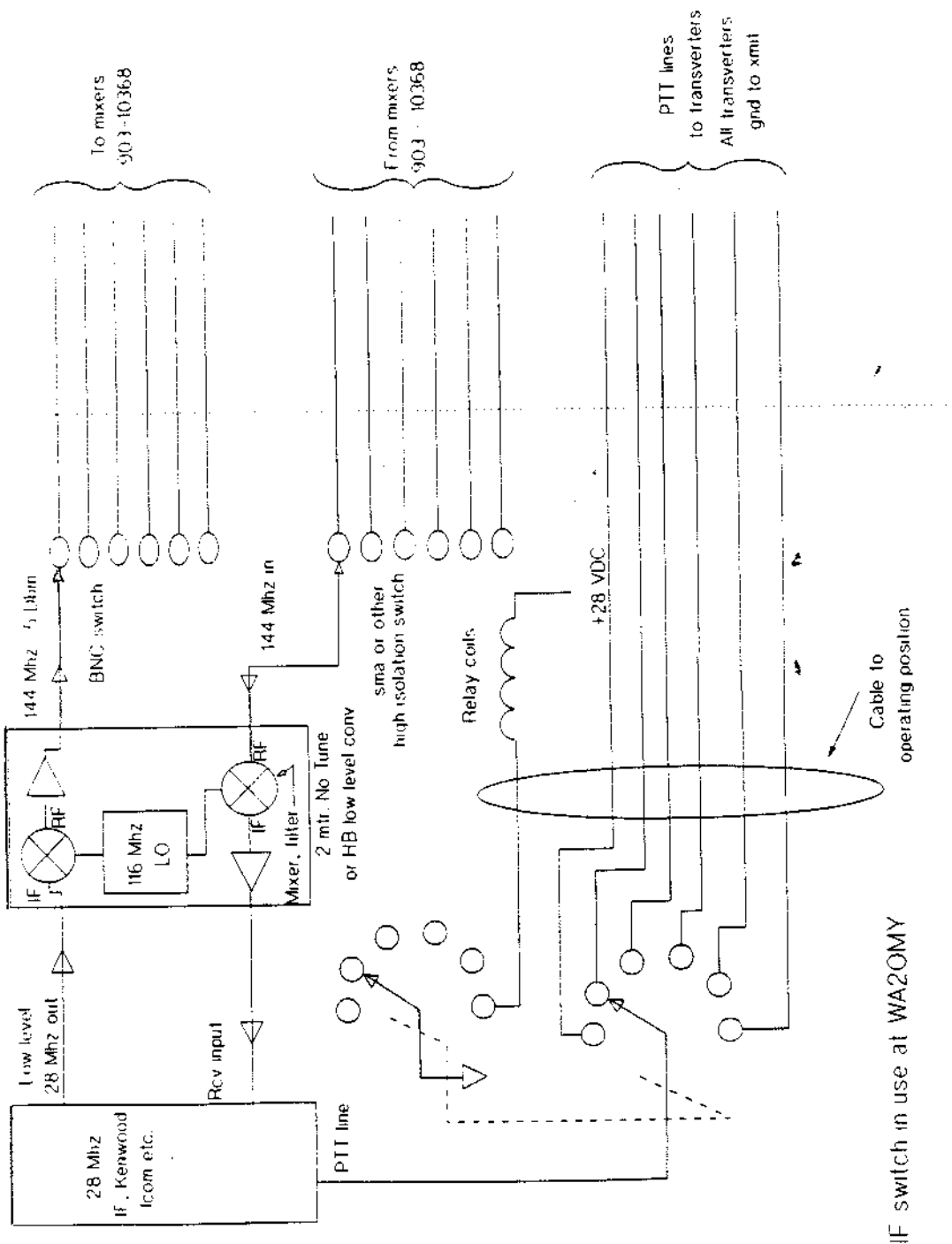
Although a 2 meter multi mode rig could be used for an IF, I use a 28 MHz transceiver. I like the performance of the filters available in most low band transceivers and they are easy to convert to obtain less than a milliwatt out on transmit. Some Japanese rigs even have a switch to turn off the screens of the finals and a separate transmit output for transverters. Also, if you are going to purchase something, an older low band transceiver or even separates may cost a lot less than a modern 2 meter transceiver.

The 28 MHz IF is connected directly to the 2 meter converter. A no tune board or the WB3JYO Transverter presented in Cheesebits would be ideal. Up to this point no attenuators or switching is required. I use inline attenuators on the relays to set the levels going into and out of the converter if necessary. The converter, power supplies, and relays are all mounted in one rack chassis.

IF SWITCHING CONTD.

A word about relays. The relay I use for the transmit path is a single pole BNC switch. They do not have a high port to port isolation, however since your transmitter is not turned on, it should not make a difference. The receive relay is more critical. If the isolation is not high enough, strong signals from the other band receive transverters may leak through to the band you are operating. I have seen all types of relays at the flea markets, however a bit of searching may be required, for instance surplus catalogs, and newsletters from other clubs. One thing should be done: check the relay operation before it is put into use! Some need to be exercised a little after sitting a while. The insertion loss should repeat itself after opening and closing. Also, don't shy away from relays with TNC connectors, they may be cheaper and sometimes have very good isolation. Another feature I use in my station is one feedline for my transmit power on 3 bands. I parallel these relay coils with the relay coils in the IF switch so that everything is switched at the same time. Don't forget to bypass relay coils with diodes or use a separate power supply.

I am sure this idea can be adapted to suit many different setups. For instance, WA3JUF has a digital readout which shows the band in use, a 2 meter IF could be used, or a different number of switch positions etc. Lets hear and see your ideas at homebrew night in March.



Date: Friday, December 10, 1993

To: Paul Drexler, WB3JYO, President, Mt. Airy VHF Radio Club
John Gilly, WD4RDZ, Chairman, Rochester (NY) VHF Group
Robert Casino, N2GDY, Hudson Watershed VHF Society
William Siebert, N5WS, Northern Texas Microwave Society
Mel Larson, KC0P, Rochester (MN) ARC

CC: Hans Brakob, KOHB, Dakota Division CAC Representative
Billy Lunt, KR1R, Contest Manager, QST
Emil Pockock, W3EP, Editor, World Above 50 MHz, QST
Joe Lynch, N6CL, Editor, VHF Plus, CQ
Jon Jones, NO0Y, Editor, VHF-UHF Contesting, NCJ
Paul Husby, W0UC, Vice President, Northern Lights Radio Society

From: Rich Westenberg, N0HJZ, President, Northern Lights Radio Society

RE: ARRL January VHF Sweepstakes Club Competition

Dear Sirs,

I have been reading quite a bit about the January VHF Sweepstakes club competition and the rover controversy in the various club newsletters and magazine articles. I wanted to let you all in on what the Northern Lights Radio Society will be doing for the contest.

I am an active VHFer and also have been a rover during the contests for the past five years. My accomplishments include being the #1 Rover in the 1991 and 1992 ARRL September VHF QSO Parties. KB0ZQ and myself also posted a good score in the 1993 September contest and hope to contend for the top spot again. Our 241,000 point effort this past September was accomplished by hard work, knowledge of propagation and our equipment and good operating skills. Our closest rover to rover QSO was 85 miles! I have participated in the "four-cornor-dance" (as we call it) while roving in a past contest and I can only describe it with one word - BORING!

In reading the various articles this year I have read about a lot of anger and frustration about the rover rules. Comments from the Central States VHF Conference and the Mid-Atlantic VHF Conference indicate "there was general agreement that rover scoring rules should be changed." I feel this general agreement came from stations who are not rovers. There are two groups who should be upset by the actions of the East Coast rover pack: other clubs and other rovers. By their operation alone, this rover pack decided the club competition for the gavel. Also, other rovers lost their chance at being the top rover. I know I would be mad if I found out we went to all the effort and work in the September contest only to come in second place to a rover with handhels, doing the four corner dance.

My only idea is to eliminate rover scores from the club competition. Clubs would still have the incentive to send out their rovers since it would boost the fixed station scores. Also, rovers would still be competing head to head with other rovers. As a rover, I would still fill the roads in January, even if my score did not count for our club.

I have read that two clubs will not be entering the club competition for the January contest in protest over the lack of rover rules changes. To all of you I offer a challenge and a word about the Northern Lights Radio Society. The NLRs will be sending in a club entry in the January contest. We will have several rovers leading out in all directions. NONE OF THE NORTHERN LIGHTS RADIO SOCIETY ROVERS WILL ENGAGE IN ANY FOUR CORNER DANCING! All our rovers will operate by the "spirit" of the rover rules. I hope our "clean" club entry will be competitive. I challenge your clubs to operate within the "spirit" of the rules AND send in your club entry. The clubs with the best equipment and operators should be the clubs that win the gavels.

Please let me know what you think. The intent of this letter was to 1) Give my support to the idea of eliminating rover scores from club entries in the January VHF Sweepstakes and, 2) Challenge other clubs to operate as "clean" clubs and enter their club scores. I want the January VHF Sweepstakes to be a FUN event! Our club is excited to compete! The Northern Lights Radio Society has grown this year from nineteen to over fifty operators!

733 and Good Luck in the contest!



Rich Westenberg N0HJZ
President, Northern Lights Radio Society
17500 Cherry Drive
Eden Prairie, MN 55346
(612) 934-7580



World Above 50 MHz Standing Boxes

Streamlined Reporting Forms for 1994 Onward

Starting with the standings boxes published in *QST* for 1994, achievements on the various VHF/UHF/Microwave bands can be reported on just two streamlined reporting forms.

VHF/UHF/Microwave Standings Boxes Report Form: Use this form to report achievements on all bands, 50 MHz through 47 GHz and higher. You may include EME contacts with your totals by checking the EME Used? column, or you may elect to exclude your EME contacts and report them separately on the EME Annals Report Form. If you wish, you can include EME contacts in both lists.

EME Annals Report Form: Use this form to report EME contacts on all bands, 50 MHz through 47 GHz and higher. Total *only EME contacts*, even though you may have worked additional states, countries, or grids by other means.

Some Questions and Answers

- (1) How do I report 6-meter DXCC standings?

Use the 6-Meter line on the VHF/UHF/Microwave Standings Boxes Report Form. It is no longer necessary to list each of your DXCC countries separately. Simply report your total countries, states, provinces, and grids on the new streamlined form.

- (2) Should the DXCC Countries totals for the various bands include only *current* DXCC countries?

You may include both current and deleted countries in your total. Do not double count current countries that have been recently partitioned, such as Czechoslovakia (OK) and Yugoslavia (YU). You may count KL7 and KH6 both as states and countries.

- (3) Do I have to use the forms you provide?

No, you can use a listing from your own computer file, for example, as long as it contains the requested information.

- (4) Where do I get more forms?

Send a business-sized SASE to World Above 50 MHz, Box 100, Lebanon CT 06111. Make copies of the forms as soon as you receive them for future use. Please distribute copies to friends, pass them out at hamfests and club meetings, and publish them in your newsletter.



World Above 50 MHz

EME Annals Report Form

Pack Rate

Call _____

Name _____

Date _____

Address _____

Grid (to six characters, if known)

Use this form for updating World Above 50 MHz **EME Annals**. Include only EME contacts. Totals need not be confirmed by QSL cards, but confirmations are necessary for WAS, DXCC, and WAC awards. Send your annual update to: **World Above 50 MHz, Box 100, Lebanon, CT 06249 USA**, to insure listing.

| Band (Non-US allocations may differ) | Number of Different EME Stations | US States | DXCC Countries | Grids | WAC ? | Best EME DX in Km (Km = miles × 1.6) |
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| 6 meters (50-54 MHz) | | | | | | |
| 2 meters (144-148 MHz) | | | | | | |
| 125 cm (222-225 MHz) | | | | | | |
| 70 cm (420-450 MHz) | | | | | | |
| 33 cm (902-928 MHz) | | | | | | |
| 23 cm (1.240-1.300 GHz) | | | | | | |
| 13 cm (2.300-2.310 & 2.390-2.450 GHz) | | | | | | |
| 9 cm (3.300-3.500 GHz) | | | | | | |
| 5 cm (5.650-5.925 GHz) | | | | | | |
| 3 cm (10.000-10.500 GHz) | | | | | | |
| 1.25 cm (24.000-24.250 GHz) | | | | | | |
| 0.6 cm (47.000-47.200 GHz) | | | | | | |

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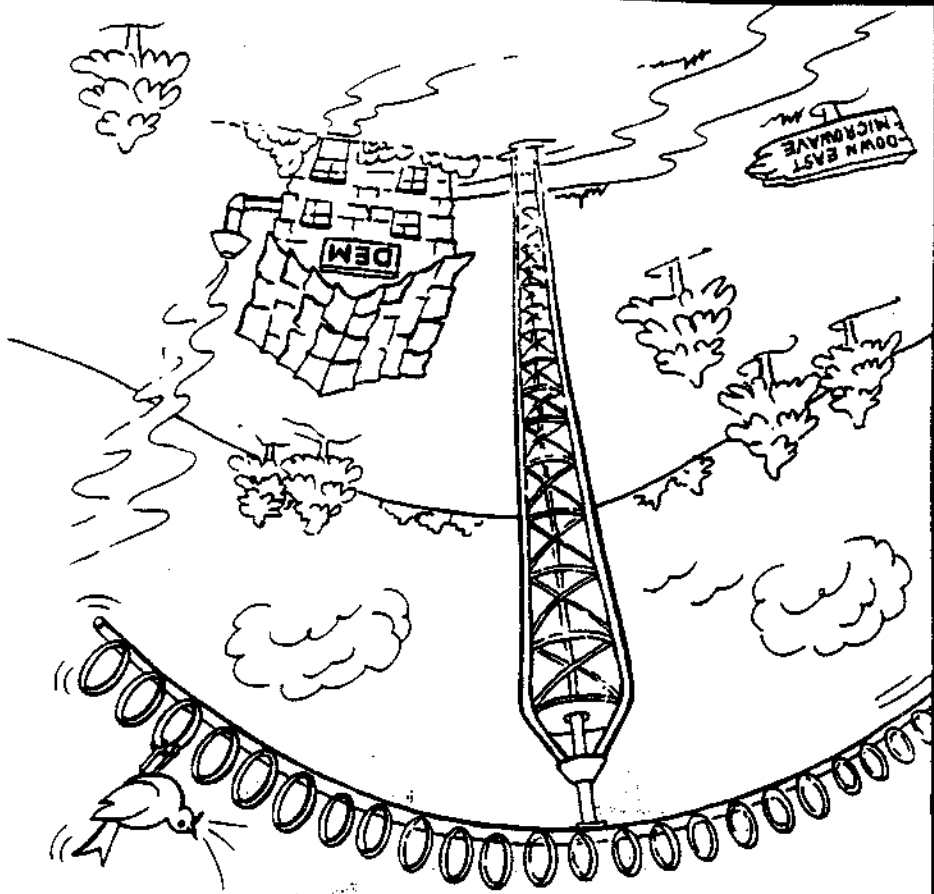
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