



# Seattlebutt

## Yankee Clipper

### Contest Club

no. 29 February 1981

Pres - K1AR

VP-AM - K2TR

Secy - K1GQ

Treas - N1TZ

#### The Final Hours de K1AR

As the title implies, the countdown to the ARRL test is getting very low. An awful lot of work and generous giving of time has occurred over the last few weeks for which I am grateful. Beyond that we have a job to do and that is to put YCCC into the number 1 position in the contest community. If you guys thought the last meeting was good, imagine how it will feel winning a gavel and being the best at what we do!!

On a lighter note, most of you will be receiving a copy of the new YCCC ARRL contest cookbook packed full with forms and useful contest data. We have decided by the way to send this manual only to eligible members to keep the costs down. YCCC is trying and will give what you guys want from the best contest club around.

The formula we have been stressing is very simple, make a score ...any score. Regional clubs have always had their problems in the past with geographical and communication problems yet we have one very important thing...spirit. We are on the verge of being the first regional club in recent times to have a serious shot at winning the gavel. Each of you that participates in the

next few weeks will be able to say that you were part of that accomplishment. Are you up to it??...I am!!!

#### MINUTES - WINTER MEETING de K1GQ

Seventy YCCers gathered at the Winter meeting, held in Worcester, MA on 17 Jan. 81. This is double our usual attendance for this meeting! The call to order was at 1340, with short reports from the Treasurer (healthy) and Secretary, followed by induction of 6 new members: AK1B, K1CEI, KB2CR, SM0COP, WB2SJG, and W1TQP.

K1AR introduced the eight area coordinators who were present: K2VV, W1ZT, K1EB, W1HCS, K1DG, WA2OVE, K2OY, and AJ1I.

K1DG described his recent trip to China. Doug also provided comic punctuation for the meeting with commercials from the power company and EIMAC, and a set of tester's New Years resolutions.

K1AR/N2NT ran down the status of the club's awards program. W1HCS volunteered himself and the NH section to further refine and administer the program (see elsewhere in this issue). W2TA also volunteered, but

withdrew in favor of the computerites. The CLIPPER ANCHOR award, sponsored by K1DG and K1GQ, will be presented to any club member who is disqualified from a contest which YCCC enters as a club, or to anybody that DG/GQ think deserves it. The award (a small replica of an anchor) was displayed. Repeat Offenders will receive somewhat larger anchors (several hundred pounds), which must be worn at all club functions.

The attendees then broke into four groups for the following seminars:

1. (K2TR) Strategy for small multi-multis
2. (N1TZ) Strategy for multi-singles
3. (K1AR/DG) Strategy for single operator entries
4. (N2NT) CW operating techniques

These were very successful, but the plan to run each seminar twice turned out to be too unwieldy for such a large group with only two rooms.

For the Dayton Hamvention, YCCC will have no official connection with a hospitality suite as in years past. Instead, W2YV and W1XK offered to attempt to obtain adjoining rooms which will then be open to the "public". K1AR has a block of room reservations available for YCCers at the Sheraton.

The YCCC QSL printer (address in BUTT 24) now requires \$ in advance (did one of you guys stiff him?) The price is a measly \$18.50 per thousand.

The raffle pulled in about \$60. W1XK won the new ARRL Operating Guide, and K1FWF collected 50% of the cash (rest to the club). John claimed he never won anything before, and said he only bought one ticket.

Once again, YCCC has won the club competition in the Mass. QSO Party.

The Frankford Radio Club movie "QRZet" was a smash hit. Our thanks to FRC President N3AW for making

this excellent tongue-in-cheek review of the 80 ARRL phone DX contest available to YCCC.

The drawing for the free duping award was won by new member K1CEI.

The meeting adjourned at about 1700, with the consensus opinion that the new format is worth the trip regardless of attendance requirements for eligibility.

#### YCCC BREAKDOWNS de K1GQ

I neglected to state last month whether or not the distribution arrangement applied to previous contests. Since I've received several forms back for SS, WW, and ARRL DX, the answer is yes. I'll wait until March 1, to give the rest of you a chance, then mail copies of all forms received to each contributor.

Henceforth, the deadline for breakdowns will correspond with the log deadline established by the contest sponsor. Any forms sent to the YCCC Awards Committee will automatically be included.

K1KI was the first to bewail the fact that some copying machines do not do well with blue paper. Sorry. Future editions of the form will be on white or buff paper, I think.

#### NH SECTION NEWS de K1GQ

W1PH claims he was omitted from the list of attendees published last month. True, maybe you should turn up the gain, Kurt.

The January section meeting was hosted by W1HCS Thursday evening, Jan. 15. My leaky memory still retains images of W7KMB (now K1BT - no he doesn't work for DEC), AG1C, WB8BTH, AK1A, K1KA, W1RR, and W1FMK. I got there late (not too late for pizza, of course), following a general agreement to hold meetings on



the second Tuesday of each month at a home in one of the four NH subsections, at about 7 PM, and to meet on Ted's machine (147.105) on other Tuesdays. After beer and pizza, we discussed contest paperwork; in particular, how to use dupe sheets to best advantage.

The February meeting will be at K10X, where we plan to go over operating strategies for the different entry classes in the ARRL DX test.

### NEW MEMBER PROFILES de K1GQ

Sam, AK1B, is an Extra Class contestant from CT. He's an ARRL member and also belongs to the Radio Amateur Society of Norwich. Sam's station includes TS520S and 2m rigs, wire antennas for 160m to 40m, and an ATB-34 tribander for 20m thru 10m. He rates FD (cw) as his top priority, followed by WPX, Radio-sport, and WAE. We oldtimers remember Sam as WB1GUD.

KB2CR is an Extra Class Life Member from Albany. John lists TS820S, TS830S, Clipperton-L and 3(!) 2m FM radios, feeding dipoles on 80m and 40m, TH6DXX, and a Cushcraft 11-el 2m yagi. His favorite contest is FD, ahead of the DX tests and SS. John's previous call was WA2TQW.

SM0COP signs /W1 now, but expects a reciprocal call soon. Rune's an Extra Class ARRL member, and his station in Hopkinton, MA includes an R7, Omni, IC701, Alpha 78, and FT227RA, with dipoles and a TH5DX at 45 feet. Rune belongs to SSA, DARC, Framingham Radio Club (FRC?), and MMRA. He favors the Scandinavian Activity Contest (especially cw) over the DX contests, WPX, and FD. Rune discourages guests ops at his station - the radios are in the bedroom.

Bob, WB2SJG, is a Life Member holding an advanced class ticket. He's currently a student at Cornell, and active from the club station (W2CXM) as well as from K20Y and

WB2FZO. Bob's radios include an FT101B and SB220, feeding inverted vees and a TA33 at his home in Stony Brook. On a scale of 1 to 9, he lists every contest as 9 (top priority), except the North American Sprint. That one gets a 10.

### INSTANT TOP TEN

The W1ZA QTH is going on the market in February - March. The tower, antennas and lines are still in place. They work, live through New England weather, and will be available if a ham buys the place. The property is 2 acres in Carlisle, MA, on a hill, with two towers - 120' of Rohn 45 and 80' of Rohn 25. Antennas are 4 element monoband yagis for 20, 15, and 10m, rotary dipole for 40m, 3 slopers for 80m and another sloper for 160m. Feedlines are all hard-line, RG-17, and RG-8. The house is 2-story with 4 bedrooms, 2.5 baths, 2 car garage, and a custom-built basement radio room including carpeting, lots of ac power, telephone, acoustic tile ceiling, flush lighting, etc.

The approximate value is in excess of \$100K. If you are interested, beat the realtors by calling Duke at work: (617) 272-3000 x1885.

## ROSTER UPDATES de K1GQ

This popular column is getting to be a royal PITB. Your YCCC officers have decided to publish a brand new roster on a date to be announced.

W7KMB	now KB1T
WB2SJG	Bob Shohet 68 Barker Dr. Stony Brook, NY 11790 H: (516) 751-8191
school	316 Thurston Ave. Apt B34 Ithaca, NY 14850 S: (607) 257-6635
KB2CR	John Fritz Jr. 1659 Central Ave. Albany, NY 12205 W: (518) 869-7880 H: (518) 869-0890
AK1B	Sam Boomer 8 Turnpike Park Norwich, CT 06360 W: (203) 446-2174 H: (203) 886-1328
K2OY	W: (914) 463-8566
W1ZA	delete home phone
N1CW	W: (617) 467-6892
W1CWU	W: (617) 321-2400 x233
AJ1I	W: (617) 452-1511 H: (617) 667-1150
W1IUU	W: (617) 681-2615
K1LS	delete work phone
K4YX	W: (617) 275-8300 x529
SM0COP	Rune Wande 6 Eastview Rd. Hopkinton, MA 01748 H: (617) 435-4763
KA1CEI	David Jordan 168 North St. Walpole, MA 02081 H: (617) 668-1609
WA1TQP	John Farrington 17 Sherman Ave. Canton, MA 02021 H: (617) 828-0219

## CAC ACTIVITIES de K1GQ

The year-end ballot has not yet made it through the circuit at HQ. (Awards Committee, Communications Manager). Informally, the major recommendation was to ban FM QSOs on a trial basis in the Sept. VHF QSO Party. The vote on moving the 10m contest was indecisive, so there was no recommendation.

K1JX had raised the possibility of banning the use of multiplier spotting nets for entry categories, to eliminate perceived geographic inequities and single-op abuses. I've little experience here - any comments pro/con, or ideas on how such a rule might be enforced (positive evidence of violation is necessary for disqualification)?

The new chairman, K5TM, plans a ballot in May (items due in March). In general, Tom wants the Committee to proceed more deliberately on rules change issues, particularly those which affect an entrant's score. Does anyone else care about rules continuity for year-to-year performance comparisons?

Tom has asked each CAC member to take on a research project of his own choosing in 1981. I picked the club competition rules, which are of particular interest to me. My first step is to determine the philosophy behind the current regulations. If you have any firsthand information on the Mad River episode or the Murphy rule, please let me know.

Three items which are likely to develop into May ballot issues are:

1. Should DC be a distinct multiplier from Maryland?
2. Should the multiplier status of VEs, KH6, KL7, etc., be standardized for all ARRL contests?
3. Should UHF contest scores include a distance multiplier?



**YANKEE CLIPPER CONTEST CLUB  
AWARDS PROGRAM (YCCCAP)  
de W1HCS**

This program was developed through the collective efforts of K1AR, AJ1I, K1GQ, KB1T, and especially N2NT. The object of the program is to give club members a goal to shoot for in their contest participation, with the possibility of actually achieving it. Both single-operator and multi-operator efforts are recognized, and as little preference as possible given to any particular contest or mode over any other.

YCCC submits a club aggregate score in each of the following six events:

ARRL DX CONTEST  
CQ WW DX CONTEST  
ARRL SWEEPSTAKES

In order to equalize the inherent imbalance in the scores of each contest, a weighting system has been established, and will be explained later in this article.

The program is divided into three major categories:

- A. ANNUAL HIGH POINT AWARDS
- B. SINGLE CONTEST AWARDS
- C. CONTINUING PARTICIPATION AWARDS

**ANNUAL HIGH POINT AWARDS**

These awards are based on the weighted point totals of individual operators in a given contest year. Points can be earned in any combination of operating categories.

**First place:** Trophy and plaque will be awarded to highest scoring operator. Both will be engraved with year, call, name, and point total. Winner gets to keep the plaque; the trophy gets passed on to the next winner.

**Second and Third places:** Plaques will be awarded to the second and third highest scoring individuals.

**Fourth - Tenth places:** Certifi-

cates for respective operator ranking.

**Certificates of Merit:** Will be awarded to all individual operators who score over one million weighted points in one contest year.

**Certificates of Appreciation:** Will be awarded to operators scoring between 250,000 and 1,000,000 points in a contest year.

**SINGLE CONTEST AWARDS**

**ARRL DX CONTEST:** Certificates will be awarded to the highest scoring stations in the following 6 categories:

Single-op (phone/cw)  
Multi-single (phone/cw)  
Multi-multi (phone/cw)

**CQ WW DX CONTEST:** Certificates will be awarded to the highest scoring stations in the following categories:

Domestic single-op (ph/cw)  
Domestic multi-single (ph/cw)  
Domestic multi-multi (ph/cw)  
DX single-op (ph/cw)  
DX multi-single (ph/cw)  
DX multi-multi (ph/cw)

Certificates of appreciation to each operator participating in a YCCC DX-pedition.

**SWEEPSTAKES:** Certificates will be awarded to the highest-scoring stations in the following six categories:

Single-op high power (ph/cw)  
Single-op low power (ph/cw)  
Multi-op (ph/cw)

**CONTINUING PARTICIPATION AWARDS**

These awards are based on cumulative individual operator point totals from contest to contest and year to year. In other words, a running total of points earned by each club member will be maintained by the YCCCAP committee on the basis of signed summary sheets submitted and scores published. The first summary sheet submitted will serve as the

application for these awards.

**YCCC Lapel Pins:** Distinctive - similar to the DXCC country-total lapel pins. Clipper ship background with indication of point total attained:

One Million Points  
Five Million Points

And five million point increments thereafter up to the 25 million point level.

**Clipper Ship Trophy:** Individuals reaching the 25 Million point mark will be awarded a serial-numbered Clipper Ship trophy, engraved with call, name, and years of operation during which the points were earned.

**Host Station Awards:** The following plaques will be presented to host-operated stations which attain the following cumulative point levels:

Single-op (10 Million Points)  
Multi-single (20 Million)  
Multi-multi (50 Million)

A serial-numbered trophy will be awarded to Multi-multi stations reaching the 100 Million point level.

(Note: Points earned during single-operator efforts may be credited to the Multi-op totals.)

#### DEFINITIONS:

"Points" are earned as follows:

ARRL DX Contest : Score X 2  
CQ WW DX Contest : Score X 1  
ARRL Sweepstakes : Score X 10

These weightings will change to reflect changes in contest rules.

Individual operator points are points earned by a given OPERATOR in a contest. In the case of a single-operator entry, the operator will be credited with points as determined by the PUBLISHED score. At guest-operated stations, the score belongs to the operator. In the case of a multi-operator entry, points will be

divided among the operators on the basis of operating time. The Operator Percentage Score Sheet should be submitted to the YCCCAP Chairman with the signed summary sheet so that each operator can be credited with his fair share of the points. For example, let's assume station W1HCS operates multi-multi with 5 operators (W1HCS, WB8BTH, KB1T, AK1A, and PJ7EF) and produces 2,226,000 points in the 1981 ARRL CW DX Contest.

<u>OP</u>	<u>HOURS</u>	<u>% of TOTAL HRS</u>
W1HCS	32	19.51
WB8BTH	38	23.17
KB1T	35	21.34
AK1A	40	24.39
PJ7EF	19	11.59
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TOTAL	164	100.00

Now take the percentage of total time for each operator times the total weighted score of the entry (ARRL score {2,226,000} X 2 = 4,452,000) to yield each operator's share of the score:

<u>OP</u>	<u>INDIVIDUAL OP POINTS</u>
W1HCS	868,585
WB8BTH	1,031,528
KB1T	950,057
AK1A	1,085,843
PJ7EF	0 (non-YCCC)

Isn't that simple?

Failure to abide by the YCCC and/or sponsor's rules may result in disqualification from the YCCCAP.

Additional awards may be given for special achievement, at the discretion of the YCCC Officers and YCCCAP Committee.

YCCC Breakdown Sheets (see YCCC ARRL DX Contest Handbook) should be submitted to the Club Secretary or the YCCCAP Committee. Each operator sending in a completed breakdown sheet before the contest log deadline will receive copies of all breakdown sheets from that contest plus a copy of the analysis compiled from them.



## 1980 NOVEMBER SWEEPSTAKES



## HIGH CLAIMED SCORES

CW	
KØRF (WØUA)	177,008
K3LR	175,492
N6TR	168,776
K5TM (K5ZD)	168,720
K6LL/7	168,484
K1AR	167,754
K3UA	165,710
K5GO	165,272
K1KI	165,168
N6RO	164,428
W2YV (N2NT)	161,616
K1TO	160,728
K1VTM(M)	160,128
W2RQ	159,120
W7NI	158,656
K5GA	158,004
N4KG (WN4KKN)	157,242
W3LPL	156,220
N6BT	156,140
K5TA	155,844
K6XV	155,376
K6RR (K7JA)	154,956
K8NZ	153,476
K1PR	152,082
K3EST (WB4SGV)	150,480
N6TV	150,234
WA7NIN (N6SF)	150,080
W1ZM	149,924
N4BP	149,242
N6IG	148,320
K1BW	148,190
K6NA	148,044
N5JJ	148,032
N4SA	147,606
K5IY (KA5CHW)	147,168
W9RW	146,584
K5MA	146,292
W9TG	146,224
K9GL	146,000
WB8JEM (M)	145,872
KØWA	144,432
KV4FZ (N6OP)	144,394
AG7M (M)	144,248
WØZV	144,102
K5GN	143,518

K4PQL	142,852
VE1QST (AK4L)	142,710
W7WA	142,672
WØYK	142,204
WA6VEF	141,552
N5CR	141,474
K8CC	141,036
W6XX	140,864
WA2ECA (WA2AOG)	140,688
W1ZT (A)	139,392
K7SS (A)	137,048
AD7K (A)	135,780
K4XU (A)	135,342
NØNO (A)	132,048

N4WW (M)	224,220
W5VSZ	222,148
AKØT (M)	221,112
K1IK (M)	217,264
AA6G (M)	216,672
W2YV (N2NT)	214,452
W7NI	213,744
K7SS (A)	213,120
N6ND	212,972
AG7M	212,722
K4XS	211,492
K7NO	211,270
N8II	211,262
WA1TFF	210,012
WØSA (M)	208,976
K9HMB (K9GL)	208,976
N5JJ	208,384
N5KW	208,236
AA5B (A)	208,196
K8ND (M)	208,088
KBØX	207,348
AI6V	207,052
WB8JEM (M)	205,860
WA3KCY/8	205,128
N6MG (WA6PGB)	202,612
N2MF	200,896
W2RQ	200,096
WØCP (A)	183,964
K1LL (A)	172,568
W7XN (A)	167,092

## PHONE

N7DD (K7JA)	315,684
WA7NIN	291,856
KØRF (WØUA)	287,860
N7DF	283,716
K5TA	281,644
K3LR	265,216
K6MYC (N6IG)	259,000
W6XX	258,260
WØYK	256,484
K7RI (W7WA)	256,188
N6RO	253,820
W5WMU	252,340
N6BT (WA6VEF)	247,160
K5RC (K5ZD)	241,980
KB6I (N6TR)	241,684
W2PV (K1AR)	240,056
KØUK	237,096
W7ZR (M)	236,356
K5QY (K1DG)	236,208
W6OKK (WB6DSV)	236,060
ABØS	236,060
K1PR	229,400
K5TM	228,068
K5IY (KA5CHW)	226,144

(M) = multioperator  
(A) = low power

Logs received as of  
31 December 1980, a  
couple still delayed  
in the holiday mail.  
QST results should  
appear in April 1981.

de K1KI/K1WJ

## LOPASS FILTERS de W2YX

The following plots are the results of some investigations of the characteristics of kilowatt lo-pass filters. Two B and W model 425 lopass filters were purchased (at discount) for this research. A Hewlett Packard model 8444A tracking generator was used as a stable 50 ohm RF source and a HP 8581A spectrum analyzer with associated calculator and digital plotter was used as a stable 50 ohm load and measuring instrument.

The filters were within 0.03 dB of each other in passband response and slightly farther apart in stop-band response. I will not give a detailed explanation of each plot. However, in summary, the BW 425 filters tested give excellent results when used at my station to suppress some nasty TVI. I can recommend this filter to most Alpha users, as, in my own experience, dielectric puncture occurs at about 4 KW. (I wasn't feeding 4 KW through the filter; high VSWR caused the indicated forward power at the input to the filter to exceed this level when the filter died.) This was an old filter that used mylar material rather than the new teflon dielectric.

It is important to remember that this filter works best and will live long only when it is in a flat 50 ohm system. Any other source or load impedance will produce a different response than shown here. High VSWR operation will likely alter all of the filter's carefully worked out characteristics.

Sometimes we talk in terms of decibels without fully realizing that even very small decibel losses mean big power losses. For instance, one of the BW 425 filters has a measured loss of 0.3 dB at 28.5 MHz. For 2 KW input to this filter, 133 watts of heat are dissipated in the filter. If the loss goes up to 1 dB because of high VSWR, aging, damage, etc., the filter will consume 411 watts. This filter probably would not survive the contest weekend.

For those of us who feel that more is better, I have included the plots for two 425 filters in series. As can be seen, the steepening of the rolloff is appreciable. At 50.5 MHz, the response is 40.9 dB below one filter alone! **CAUTION** - do not use two filters in series on any band above 20 meters. From 160m to 20m these cascaded filters will be very effective. Beyond 20m, the filter losses are excessive and will no doubt cost you more in unreadable weak signal contacts than you'd care to lose.

Hopefully, I will find time to measure both Drake and Johnson lo-pass filters for comparison, and report on them here. That's it - - - keep the VSWR low, use a good filter, and make lots of points!

## 1981 BERMUDA CONTEST de K1DG

The 1981 Bermuda contest will take place this year from 0001Z March 21 to 2400Z March 22. Operating time must not exceed 36 hours. USA stations may work Bermuda, United Kingdom, and West German stations. Count 5 points for each contact with a station on a band (phone and cw segments are considered to be the same band). No cross-band QSOs permitted, including no W-to-Europe on 40M. Exchange report and state for report and G county, VP9 parish, or German DOK. Multiply QSO points by total number of VP9s worked on each band. You must operate from your own private residence. No guest or multi ops permitted.

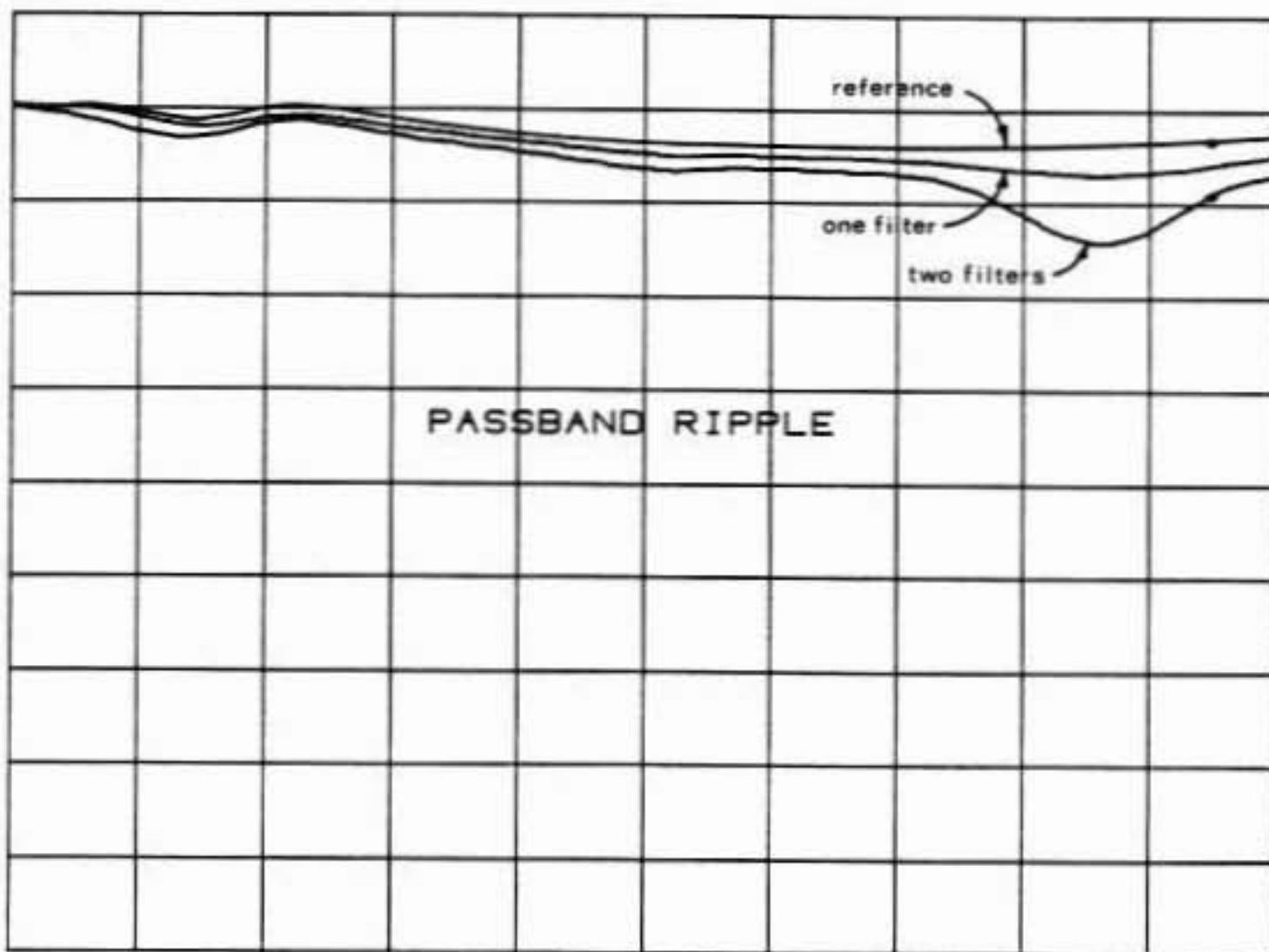
Top scorer in each state receives a certificate. Top scorer in country receives a trophy to be awarded at the Radio Society of Bermuda annual dinner held in October. "Round trip air transportation and accommodation will be provided to overseas winners to enable them to receive their awards."

Previous YCCC winners include W100, W1RR, N1GL (twice!) and K1DG.



# B&W 425 filter

1 dB/

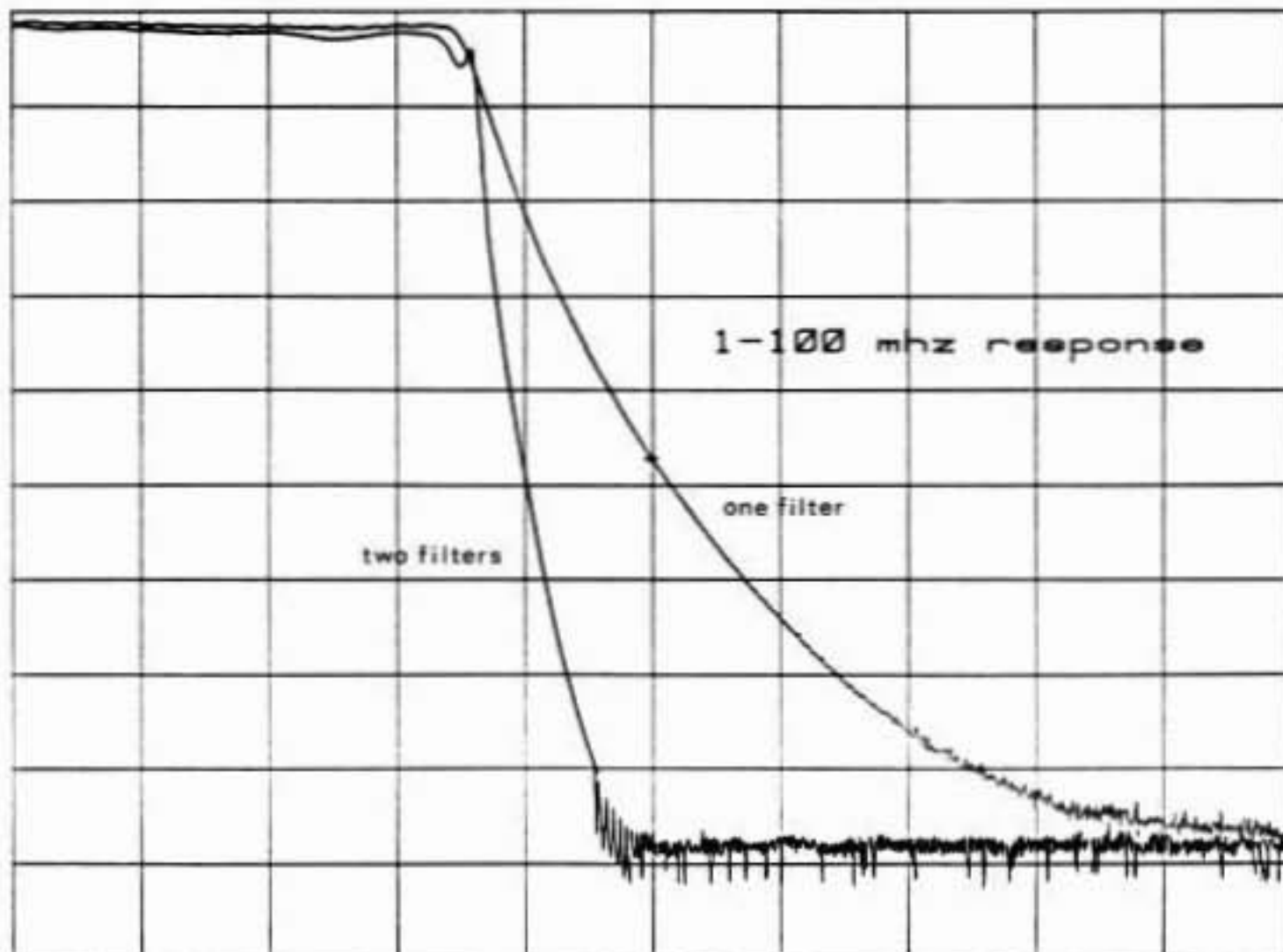


START 1.00 MHz

STOP 30.00 MHz

# B&W 425 filter

10 dB/



START 1.00 MHz

STOP 100.00 MHz

Bill Myers K1GQ  
Box 501  
Hollis, NH 03049

#### COMING EVENTS

Feb 21 ARRL CW DX CONTEST  
Mar 7 ARRL PHONE DX CONTEST  
Mar 21 YCCC SPRING MEETING  
Apr 24 Dayton Hamvention  
Sep 19 YCCC CONVENTION MEETING  
Dec 5 YCCC FALL MEETING  
contest info from Contest Corral

FIRST CLASS