



Scuttlebutt

No. 70 August 1987

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Captain's Cabin Bill Pedersen, KM1C

Summer greetings from Long Island, Casco Bay, Maine, where KM1C/1 is on a mini DXpedition without radios trying to fix up a long-neglected summer house that pre-dates Marconi! There is six weeks worth of clearing, cleaning, scraping, and painting to go before I will once again be able to "check the board" and tune across the HF bands looking for the elusive ones. I will confess, however, that my thoughts keep wandering across station and antenna changes and other ways to improve the DX chase and contest scenes. These should all be in place by CQ WW.

Meanwhile, I look forward to the YCCC summer barbecue on Sunday, August 2, 1987, at the Sheraton Sturbridge. This is the one meeting per year where everyone has the chance to do a lot of socializing with fellow club members without a strict meeting schedule to follow. It is an excellent opportunity to focus your own contest thoughts for the coming year, get the latest info on what is happening with packet, computer logging programs, and who is doing what with antennas, towers, etc. In short, it's a chance for summer fun, while "Brrapping" (that's packet talk) about our favorite topic, ham radio. This event will be held rain or shine. Please make your reservations now with Charlotte, KQ1F, so that the hotel can be prepared for this YCCC event. Also, the larger the turnout, the more fun we can all have.

The CQ WW should prove to be an interesting contest this year. The bands may well show improvement over the last couple years. The YCCC will have several DXpeditions making those important mega-points, the packet cluster will be operating at new and improved levels, and we should have a number of new members helping with point contributions. All of the elements are in place for a YCCC win on both modes if we can get enough individual operator participation. The club will not win on million-plus point operations alone. We need all scores possible, even those from a few casual hours on Sunday or from a low-power, dipoles-only setup. Please remember that the club has members with a great variety of stations and contest talents. The YCCC accepts scores of all levels, large or small! The point is to make points, have fun, donate the score to your club, and take satisfaction from the resultant YCCC win and your new country and band-country totals.

I'm sure there will be a lot of strategy discussions and good ideas at the barbecue. Whether you are an old or new member, why not attend and meet those from the "other" regions of the club? Also, bring along someone who has expressed an interest in contesting and DXing. The YCCC has a lot to offer to the newcomer in this area of amateur radio. We should all help the YCCC by attempting to recruit new members. The barbecue is a great place for introductions in a relaxed atmosphere and a good opportunity to help the club grow. I look forward to seeing everyone there.

73 de Bill, KM1C.

Next Meeting

Paul Young, K1XM

The next meeting of the Yankee Clipper Contest Club will be the club barbecue on Sunday, August 2, at the Sheraton Sturbridge. The brief business meeting will start at noon, followed by the barbecue and swimming at the beach. Kele Kecman, YU1AO, principal operator at YU1EXY, will be in attendance.

If you are coming for the barbecue, you **MUST** contact Charlotte, KQ1F, by noon on Wednesday, July 29th. If we tell them too few people, they won't have enough food, and if we tell them too many, then YCCC gets charged. The barbecue will be \$9.25 per person. Bring the whole family.

The Sheraton Sturbridge Resort and Conference Center is located on Route 20 in Sturbridge, Massachusetts, $\frac{1}{2}$ mile West of I-84 (first exit off I-84 when coming South from the Mass. Turnpike). Directions to the Sheraton are easy: Exit I-84 on to Route 20 West. You will pass through two sets of stoplights while noticing several motels on your right. Make a right turn just prior to the Burger King sign. This is the entrance to the Sheraton, and there is plenty of parking in front of the hotel.

The meeting dates for the rest of 1987 and 1988 are:

DATE	DAY	DELI-LUNCH
August 2, 1987	Sunday	Lakeside Bar-B-Que
October 4, 1987	Sunday	11:30 AM
December 6, 1987	Sunday	11:30 AM
February 6, 1988	Saturday	11:30 AM
April 9, 1988	Saturday	11:30 AM
June 5, 1988	Saturday	11:30 AM
August 6, 1988	Saturday	Lakeside Bar-B-Que
October 2, 1988	Sunday	11:30 AM
December 4, 1988	Sunday	11:30 AM

Secretary's Report Yankee Clipper Contest Club

The June YCCC meeting was held at the Sheraton Sturbridge on 6 June 1987 with 44 members and their guests in attendance. Tom Frenaye, K1KI, club Vice President, chaired the meeting in the absence of club president KM1C. The Treasurer's Report showed a balance of \$88.01. The Treasurer's Report showed payment for the 1985 CQ WW plaque, which went to D44BC, and that the price of sponsoring a plaque has gone up, from \$45 to \$50. The reading of the Secretary's Report was waived since the report appeared in the last Scuttlebutt.

Courtesy of Dwight, AI3E, copies of the "1987 Survey of NBS Time and Frequency Service Users" were available. These postpaid forms should be sent in as soon as possible to show our appreciation of WWV, so

its funding will not get cut off. Copies of the club's DXCC List were also available; additional copies are free for an SASE to Charlotte, KQ1F. Tom, K1KI, also collected a list of foreign operations by club members, which he will compile into a directory for members thinking of taking DXpeditions.

Dave, KY1H, reported that his Field Day plans were proceeding, and that operators were needed for the Novice/Technician station. Doug, K1DG, was also looking for Field Day operators, and Rich, K1CC, reported that Murphy's Marauders Field Day would take place in Manchester, CT.

Tom, K1KI, reported that Bill, KM1C, had written up input to the FCC about the Club's proposal to link 2m packet systems with 220MHz links. Rich, K1CC, has a Drake L4B for sale, and is looking for a used TNC. Dave, KY1H, reported that he is running a Swap net on 28303 on Thursday nights at 9 pm local time. Tom, K1KI, had an NCJ North American QSO Party plaque for Jack, W1WEF. Tom also brought a collection of books he no longer needed, which members could have for a donation to the Club treasury; most of these quickly disappeared. Rich, K2WR, reported that Ed, NT2X, was ordering more club jackets and that interested parties should contact Ed for details. Jackets cost \$23.50. Tom, K1KI, encouraged members to plan CQ WW DXpeditions. He also demonstrated an antenna carrying box he built out of PVC pipe and end caps to ship antennas for DXpeditions; the parts cost \$6. The 50/50 raffle netted \$21 for the Club, and was won by Genevieve, N1CPC, XYL of Jim, K1MEM. Several members had IRCs for sale for \$40. Dick, AK1A, volunteered to collect any QSL card orders for John, K1AR, who missed the meeting. He also reported that copies of the manual for his PCBS system are available for \$1.

The club welcomed four new members: Rick Booth, KM1G, and Stan (KA1ZE), Linda (KA1KSF), and Kevin (KA1QAH) Hilinski, all of Connecticut.

After all of this routine business, Rick, KM1G, presented a slide show on YU contest stations in Dalmatia (coast of Yugoslavia). Rick is a newspaper and magazine editor, and was in Yugoslavia to cover a yacht race. He visited club stations YU2AKL and YU2CBM. He reported that hams in Yugoslavia **MUST** belong to a club, that home calls there are now 2x2 and club station calls 2x3, and that special prefixes are easy to get. Equipment is hard to get due to import quotas. Radio clubs get government money.

Rich, K2WR, presented his Dayton Spiel.

John, W1RR, gave a technical presentation of VHF paths between AK1A, KY1H, and other backbone packet nodes.

Steve, K1ST, then showed slides of the West African 160m DXpedition by K1ST, WA1RCA, K1MEM, N1CPC, K1MM, and KA1ESR to TU and 6W.

Dave, KY1H, gave a short presentation on suggested improvements to the packet network backbone to reduce congestion. He suggested using two or more 2m frequencies connected by a 220MHz 2400 baud link.

Tom, K1KI, then collected all of the QSL cards for the Best QSL Card contest.

Following these presentations, the hungry crew adjourned to Rom's and other local eateries for much-needed refreshment!

Respectfully submitted,
Charlotte L. Richardson, KQ1F
Secretary/Treasurer
8 June 1987

Heapsort

Dave Clemons, K1VUT

For a couple of years I tried to teach myself enough BASIC in order to use my computer for amateur radio applications. During that time I had some difficulty with certain aspects - partly due to my low-budget approach and partly due to the limitations of the books I was reading. These experiences have led me to keep an eye open for certain basic applications which can be derived from other languages I have been studying. Since my experiences are probably not unique, I decided to pass this little tidbit on to those of you who are in a similar situation.

A typical application of the computer to our facet of the hobby is the use of a sort to produce an alphanumeric dupe sheet. Alas - if you are reading the typical BASIC book, you will be introduced to the "bubble sort". So you add this neat little sort to your program, type in 987 calls, go to bed, and, if you're lucky, the list will be ready in the morning ... after breakfast, that is. Actually, I am exaggerating a bit but you probably did notice that it is rather slow for large lists.

Computer scientists have designed a way to characterize various sorts, by using the "big O" notation - which stands for "order of". Briefly stated, the "bubble sort" falls into the $O(n^2)$ category, where n is the size of the list. Therefore, as n increases, the time used by the sort increases by a rate that is bounded by n^2 . This should explain why it is so slow on large lists.

There are numerous sorts which fall into a better category - $O(n \log n)$. Unfortunately most of them require recursion, which eliminates BASIC. I did run across one (the "heapsort") which is recursive in concept, but

is implemented in an array. (The explanation of the algorithm is somewhat lengthy unless you understand the concept of a binary tree.)

To give you an idea of comparative times on my computer, I ran both sorts with identical data (calls worked in the 1985 WPX test). The times taken by the sorts were determined by the computer itself.

Following the chart is the actual BASIC code segment for the heapsort. It should be obvious that for small lists the "bubble sort" is still preferable due to its small length code, but the 35 or so lines of the heapsort are well worth the trouble of typing when you have a large list. (Don't forget to "clear" enough space for the amount of calls you are using.)

No. Items	"Bubble Sort" Time (sec.)	"Heap Sort" Time (sec.)
10	2	1
20	6	4
40	29	11
80	237	62
160	4307	658

```

160 :REM      H IS THE NUMBER OF CALLS TO BE
165 :REM      SORTED.
160 :REM      ENTER ALL THE CALLS INTO AN
170 :REM      ARRAY WITH SUBSCRIPTS OF 0 TO H
180 :REM
190 :REM
200 N = 0
210 FOR I = 1 TO H
220 GOSUB 1300
230 NEXT I
235 Q = H
240 IF Q >= 1 THEN GOTO 2020 ELSE GOTO 280
280 END
290 :REM
300 :REM
1300 V$ = A$(I) :REM A$ IS THE ARRAY OF CALLS
1305 N = N + 1
1310 A$(N) = V$
1320 GOSUB 1400
1330 RETURN
1340 :REM      N,K,R,J ARE ALL USED AS
1350 :REM      ARRAY SUBSCRIPTS
1400 K = N
1410 W$ = A$(K)
1420 A$(0) = "}}}}}}}" :REM THIS GIVES A$(0) A HIGHER
1425 :REM VALUE THAN ANY POSSIBLE CALL
1426 :REM IN ORDER TO STOP THE "LOOP"
1430 IF A$(K \ 2) <= W$ THEN GOTO 1480 ELSE GOTO 1440
1440 A$(K) = W$
1450 RETURN
1480 A$(K) = W$
1490 K = K \ 2
1500 GOTO 1430
2000 :REM
2010 :REM
2020 P$ = A$(1)
2030 A$(1) = A$(N)
2050 N = N - 1
2060 R = 1
2070 V$ = A$(R)
2080 IF R <= (N \ 2) THEN GOTO 2090 ELSE GOTO 3080
2090 J = R + R

```

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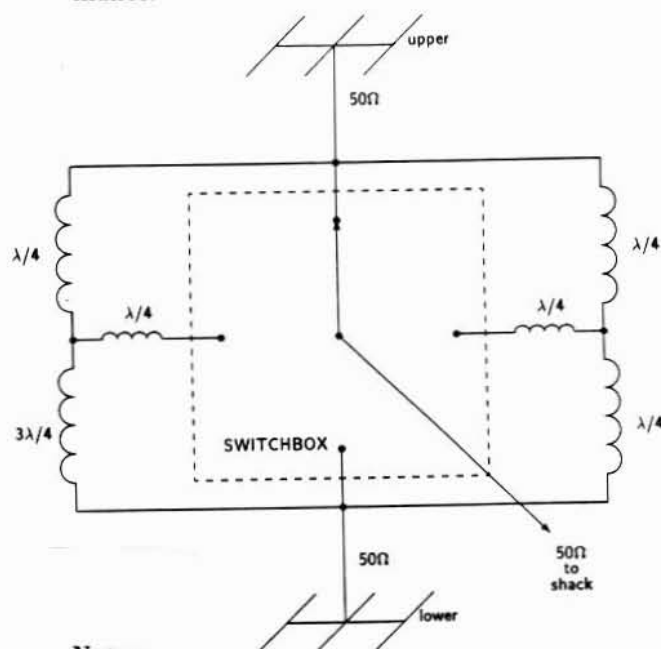
3000 IF J < N THEN GOTO 3010 ELSE GOTO 3020
3010 IF A$(J) < A$(J + 1) THEN J = J + 1
3020 IF V$ >= A$(J) THEN GOTO 3030 ELSE GOTO 3050
3030 A$(R) = V$
3035 GOTO 3080
3050 A$(R) = A$(J)
3060 R = J
3070 IF R <= (N \ 2) THEN GOTO 2090 ELSE GOTO 3030
3080 A$(Q) = P$
3085 Q = Q - 1
3090 GOTO 240

```

U-L-Bip-Bop Box

Dave Robbins, KY1H

I am using the new Heathkit remote switch box on my 20 meter system. It provides the 1 of 4 non-shorting and non-grounding switching and does not require a separate control cable. It also switches almost instantly since it uses relays instead of a rotary switch. I have measured at least 30 dB of isolation when in upper or lower on the opposite antenna (i.e., 1 kW to upper antenna and 1 W to lower) and good balance when in the 'Both' positions. While there is some change in loading when switching positions it has not been enough to force retuning the amplifier. This system has been in use since last fall at my station with 2 3-element 20m monobanders, one rotating at 150 feet and the other fixed on Europe at 60 feet, and has provided excellent flexibility and good performance.



Notes:

- all $\lambda/4$ (and $3\lambda/4$) lines are 75Ω coax.
- 50Ω lines from box to antennas are equal lengths.
- Switch box is non-grounding and non-shorting.

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Score Rumors:

CQ WPX CW:

Call	QSOs	Ms	Score
N1AFC (QRP 1w)	141	122	32K
K1TO	1266	510	1.4M
K1XA (20m)	692	387	1.1M

CQ Trophy Thank You

YCCC de N6TJ

Dear Gang:

Once again I have the opportunity to thank you for sponsoring the CQ WW CQ DX Contest DXpedition Trophy. The last time was in the early 80's for my operation as 8P6J; this time for my DXpedition to D44BC in the 1985 test. Your support is always appreciated, as are the many YCCC QSOs. The YCCC certainly has more than its share of big signals and fine operators.

Please look for me again at D44BC this November, and additionally, Julio and I will be multi-op in the Phone test in October.

Thanks again.

73

Jim Neiger, N6TJ

P.S. Your trophy is already in the hands of Julio (D44BC) and I expect will soon adorn a prominent space on the wall of his shack in Mindelo.

Floating

Paul Young, K1XM

What if you gave a contest and nobody came? I suspect that will be the fate of the new **73 Magazine** contest. The contest has some of the worst rules I have ever seen. Here are some examples:

- The contest is USA only. The score is QSO points times the average multiplier.
- A QSO is worth one, two, or three points depending on what kind of antenna you use. A wire (except for a quad) or vertical (not phased) is worth three, a multi-band antenna two, and everything else one. This means that your normal antennas are all wrong – you need a special set for this contest. For example, rhombics are good three point antennas. Of course, you can

turn your one point yagis into three point antennas by rotating them so they have vertical polarization!

- You get one multiplier per state on each band, except on 160 or 10 where a state is worth two. To calculate the average multiplier, you add up the multiplier and divide it by the number of bands operated. This will discourage you from operating on marginal bands.
- The contest is operated barefoot. This should further discourage you from operating marginal bands. Although the ARRL had a problem with people running high power in the Sweepstakes some years back I'm sure **73 Magazine** is too highly respected for anyone to cheat in their contest.
- Except during the last three hours, you must switch bands at 0300, 0600, 0900 etc, and at no other time! This means that if you really want to get those double multipliers on 160, you have to go there for three solid hours, barefoot. If you do not bandswitch when you are supposed to you will be disqualified. This will make it real difficult to casually operate this contest.

The announcement of this contest in **73** said that it will separate the men from the boys. I think they are right, because the boys will cheat and the men won't operate.

Of all the ham magazines I get (**QST**, **CQ**, **73**, **Ham Radio**, **RSGB Radcomm**, **NCJ**, and **Radiosporting**), **Ham Radio** is the only one which does not sponsor a contest. I think I will renew their subscription.

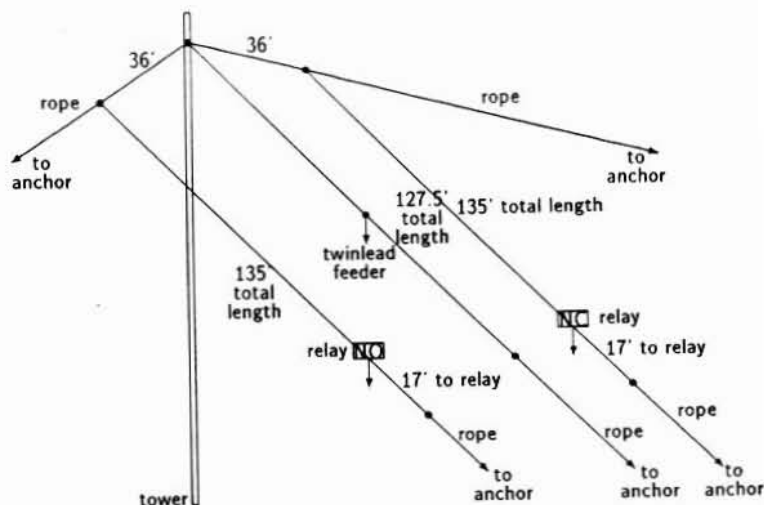
By the way, have you seen the latest **NCJ**? It is the first one published by the ARRL. The print quality is as good as the **Scuttlebutt**. If you don't subscribe to the **NCJ**, you should. And, of course you should write some good articles and send them to the **Scuttlebutt**, so I can print them and the **NCJ** can copy them.

If you worked us from **KC6MX/KC6IF** and have not sent for a QSL, they should be available at the barbecue. Just one more reason to attend!

EI8H 80m Reversible Beam

Dave Robbins, KY1H

This diagram was drawn from EI8H's description on 75m. The observed F/B ratio was 4-5 S-units.



Movers and Shakers

The new club roster in this issue has these changes in callsigns:

Jeff, ex-WB8BTH, is now NK1F.

Check the roster itself for the latest addresses and phone numbers. Note that area code 617, Eastern Massachusetts, is going to be split sometime before the end of the year; members located approximately west of route 128 will then be in area code 508.

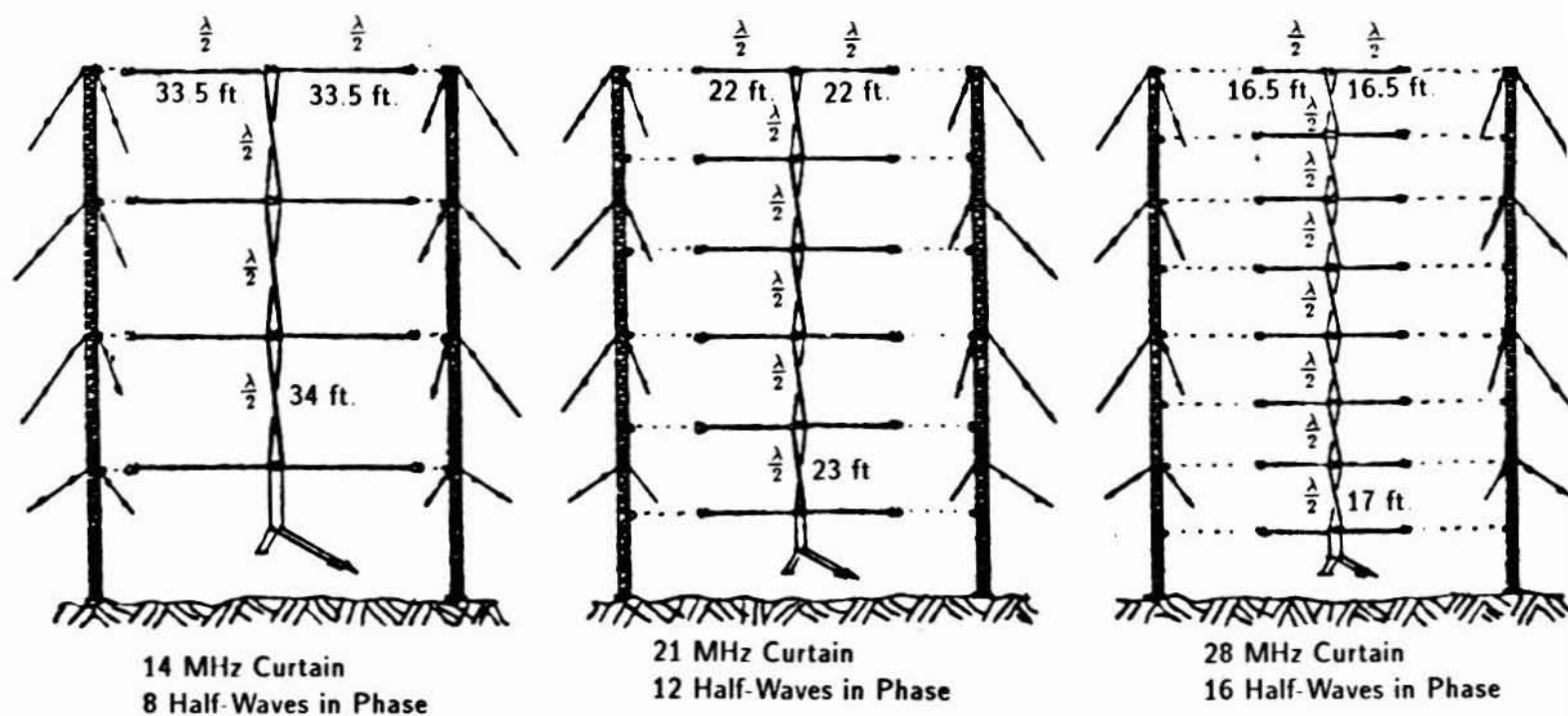
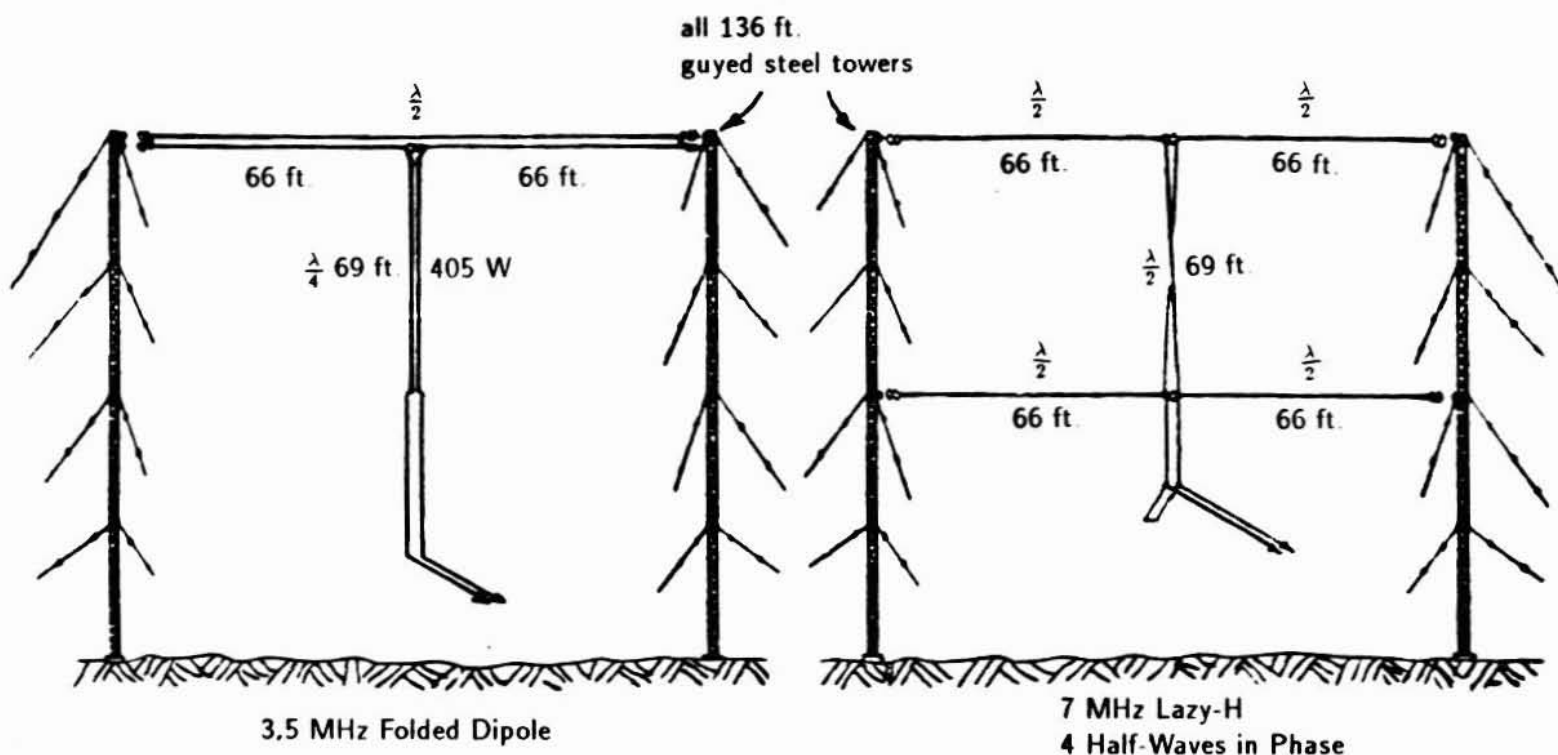
New Crew

Please welcome the following new members, who joined at the last meeting:

Rick Booth, KM1G
9 McGrath Court
Stonington, CT 06378
home phone (203)535-0123

Stan Hilinski, KA1ZE
Linda Hilinski, KA1KSF
Kevin Hilinski, KA1QAH
17 Pilgrim Drive
Tolland, CT 06084
home phone (203)872-6197
work phone (for KA1ZE) (203)649-3258

W1EVT
Acton, Massachusetts
Typical High-Frequency Antennas in Use March 1967
Tom Frenaye, K1K1



THE CLUB RESOURCES PAGE

THE Place to Find Club Information

DUES are due at the April election meeting, which begins our club "contest year", with a grace period until the end of June. Membership in the club will **lapse** at the end of the grace period if dues are not paid up. In order to re-join the club, a lapsed member must attend a meeting, like any new member, and be welcomed back into membership, or may become a subscriber to the **Scuttlebutt** by paying up (see below). Club members who move out of club territory and so are not eligible to contribute to club aggregate scores automatically become subscribers. New members who join at the last meeting of the club's contest year (February) are credited with dues for the following year (that is, the contest year beginning that April). You can tell if you owe dues by checking your **Butt** mailing label. Only paid-up members are eligible to contribute to the the club score in contests.

FAMILY MEMBERS Members of the same family living at the same address may elect to receive only one copy of the **Butt**. One member of the family must pay full dues, enabling the rest of the family to join as family members. Being a family member is currently free.

STUDENT MEMBERS Full-time students are eligible for dues at half the regular rate.

SCUTTLEBUTT SUBSCRIBERS Anyone may subscribe to the club newsletter, the **Scuttlebutt**. A subscription costs the same as club membership. At the present time, overseas subscriptions cost the same as domestic (we have very few overseas subscribers). The subscription period begins at the beginning of the club year, in April. New subscribers who begin their subscriptions after the December issue are considered to have paid for the following year (that is, they receive as many issues as new members joining at that time do). You can tell if your subscription is current by checking your **Butt** mailing label. The grace period for late subscriptions is the same as for late memberships.

SCUTTLEBUTT ARTICLES should be sent to the **Scuttlebutt** editor, Paul Young, K1XM, 11 Michigan Drive, Hudson, MA 01749, home phone (617)562-5819. The deadline for each issue is three weeks before the next meeting.

CLUB JACKETS are available through Ed Kritsky, NT2X, 580 East 17th Street, Apt. 2F, Brooklyn, NY 11226, home phone (718)284-4493.

CLUB QSL CARDS are ordered through John Dorr, K1AR, 2 Baldwin Street, Windham, NH 03087, home phone (603)434-5661.

CLUB QSL CARD BADGES are available from Tom Frenaye, K1KI, 23 Pinehurst Road, Box 62, Unionville, CT 06085, home phone (203)673-5429, by sending him a club QSL card. The cost is \$1 payable to the club treasurer on receipt of your badge.

PACKET NET information is available from Dick Newell, AK1A, 5 Pavillion Rd., Amherst, NH 03031, home phone (603)673-6458, or Dave Robbins, KY1H, Baumann Road, Peru, MA 01235, home phone (413)655-2714.

CONTEST SCORES are sent to the club scorekeeper, Jeff Detray, NK1F, P. O. Box 524, Troy, NH 03465, home phone (603)242-7995.

CLUB ROSTER appears in the summer issue of the **Scuttlebutt** every year. Updates are published when members move or change callsigns. If you want a new copy of the club roster, contact the club secretary/treasurer, Charlotte Richardson, KQ1F, 11 Michigan Drive, Hudson, MA 01749, home phone (617)562-5819.

CONTRIBUTIONS The YCCC welcomes your contributions, be it money to help offset the cost of the **Scuttlebutt** and club operations, scores for the club aggregate score, time spent helping other members, articles for the **Scuttlebutt**, or presentations at club meetings.

DXCC LIST The club maintains a one-page version of the ARRL DXCC Countries List. To get a copy, send an SASE to the club secretary, Charlotte Richardson, KQ1F, 11 Michigan Drive, Hudson, MA 01749. Complete DXCC rules are only available from the ARRL.

ARRL LIAISON For ARRL matters, contact Tom Frenaye, K1KI, 23 Pinehurst Road, Box 62, Unionville, CT 06085, home phone (203)673-5429.

The **Scuttlebutt** is the newsletter of the **Yankee Clipper Contest Club** and is mailed six times per year to all paid up members. Dues are \$10 per year, payable 1 April with a grace period through 30 June. Non-members may subscribe to the **Scuttlebutt** by sending \$10 to the Treasurer: Charlotte Richardson, KQ1F, 11 Michigan Drive, Hudson, MA 01749. Subscribers who subsequently become members will be credited as having paid dues.

The **Scuttlebutt** may be reprinted in whole or in part, except for separately copyrighted articles, provided proper credit is given.

The **Yankee Clipper Contest Club** (an ARRL Affiliated Club) holds six official meetings per year, on the Saturday or Sunday afternoon of the first full weekend of every even month in the Sturbridge, Massachusetts, area. The deadline for article submission to the **Scuttlebutt** is three weeks before the next meeting date. The next meeting will be the annual barbecue on Sunday, August 2, 1987, in Sturbridge, Massachusetts. Attendance at an official meeting is required in order to become a member. Club members congregate on 3830 KHz after contests. The packet frequency is 144.95 MHz.

Rosters are mailed to all paid members each summer. For more information and/or assistance, contact the area manager nearest you on the following list:

Area	Call	Name	Home	Work
CT/RI	K1RX	Mark Pride	(203) 271-2076	(203) 265-8825
EMass	W1FJ	Al Rousseau	(617) 598-3744	(617) 599-7500 x 173
WMass	KY1H	Dave Robbins	(413) 655-2714	(413) 494-2023
VT/NH	K1GW	Glen Whitehouse	(603) 673-6290	(603) 627-7877
ME	K1SA	Bernie Cohen	(207) 773-6589	(207) 797-3585
NNY	K2RD	Ira Stoler	(518) 439-5804	(518) 445-8474
SNY/NJ	K2EK	Bill Gioia	(914) 221-1672	(212) 888-2102

YCCC

11 Michigan Drive
Hudson MA 01749

FIRST CLASS

Yankee Clipper Contest Club Roster:

CALL	NAME	HOME PHONE	WORK PHONE	STREET ADDRESS	CITY	ST ZIP CODE
AKIA	Dick Newell	603/673-6458	617/568-4667	5 Pavillion Rd.	Amherst	NH 03031
KZIA	Mac McGrath	401/789-1796	203/666-1541 x 202	47 Lakeview Drive	Narragansett	RI 02882
NIAFC	Peter Archibald	207/767-2169	207/797-8931	P. O. Box 2288	South Portland	ME 04106
KIAR	John Dorr	603/434-5661	617/967-1095	2 Baldwin Street	Windham	NH 03087
NIAU	Bill Santelmann	617/862-1753	617/692-6000	30 Fairlawn Lane	Lexington	MA 02173
NBIB	Dennis Egan	617/655-0444	617/358-2912	3 Keith Road	Wayland	MA 01778-4517
NCLB	Shawn McCormick	413/786-7966		P. O. Box 17	Feeding Hills	MA 01030
KIBG	Bruce Blain	617/433-6363	617/263-9449	34 Bancroft Street	Pepperell	MA 01463
WIBK	Charles McCarthy	617/562-5622		128 Forest Avenue	Hudson	MA 01749
WIBR	Roger Prince	617/393-3413	617/798-8576	66 Washburn Street	Northboro	MA 01532
KALBRD	Bernice Andersen			Box 11043	Newington	CT 06111
KIBW	Ron Grzelak	617/797-4190	617/793-0405	56 Stebbins Street	Chicopee	MA 01020
AGIC	Ted Goodhue	603/434-0399	603/885-9564	12 Hovey Road	Londonderry	NH 03053
KMIC	Bill Pedersen	603/673-1678		Roberge Drive	Amherst	NH 03031
KALCB	David Gerna	603/382-6364		3 Rolling Hill Avenue	Plaistow	NH 03865
KICC	Rich Assarabowski	203/875-0166	203/727-7438	306 Vernon Avenue	Vernon	CT 06066
KALCI	Richard Reed	203/742-7008		62 Springdale Road	Coventry	CT 06083
KICLN	Bill Welch	617/653-2347	617/732-4745	86 Woodland Street	South Natick	MA 01760
NICQ	Bill Shaheen	413/467-9075	413/785-1918	49 South Street	Granby	MA 01033
WICWU	Jim Tumelty			2 Hickory Lane	Danvers	MA 01923
KGID	Lester Kemble	203/872-3099	203/566-4794	14 Grandview Terrace	Vernon	CT 06066
NIDEA	James R. Henderson	617/259-8738		Giles Road	Lincoln	MA 01773
KIDG	Doug Grant	603/432-4738	617/935-5565 x 2508	144 Kendall Pond Road	Windham	NH 03087
NIDTG	Terri Corey	401/765-4444		Jencks Road	Cumberland	RI 02864
KIDW	Dallas Ward	203/521-9117	203/365-2788	25 Belcrest Road	West Hartford	CT 06107
KALDWX	Gordon Durk	617/263-1066	617/935-5956	115 Cobleigh Road	Buxborough	MA 01719
KIEA	Ken Wolff	617/456-8272	617/460-2055	RD 1 Box 556	Harvard	MA 01451
WALEKV	Chuck O'Neal III			Post Office Box 231	Bolton	MA 01740
KALERF	Julie Czajkowski	617/885-3841	617/885-3841	North Brookfield Road	Spencer	MA 01562
KALESR	Karen Poellnitz	617/879-6290	617/732-5420	44 Sunset Drive	Framingham	MA 01701
KCLF	Stu Santelmann	617/783-0557	617/682-5276 x 17300	119 Brooks Street	Brighton	MA 02135-1716
KQLF	Charlotte L. Richardson	617/562-5819	617/568-6588	11 Michigan Drive	Hudson	MA 01749
KXLF	Lawrence D. Savoy	413/783-7786	203/674-3894	51 Pine Hill Road	Springfield	MA 01118
NJLF	Brian J. Szewczyk	413/743-5781	413/499-3333	74 East Street	Adams	MA 01220
NKLF	Jeff DeTray	603/242-7995	603/924-9471	P. O. Box 524	Troy	NH 03465
KALFBI	Albert Kinnon	617/475-3279	617/423-3814	5 Argilla Road	Andover	MA 01810
WIFJ	Al Rousseau	617/598-3744	617/599-7500 x 173	180 Den Quarry Road	Lynn	MA 01904
WIFM	Jake Handwerker	617/862-6742	617/271-2000	17 Pine Knoll Road	Lexington	MA 02173
WIFV	John Kaufman	617/897-5929	617/863-5500 x 4041	47 Durant Avenue	Maynard	MA 01754
KIFWE	John Webster	603/432-4159	617/438-4300	74 Redfield Circle	Derry	NH 03038
KMIG	Rick Booth	203/535-0123		9 McGrath Court	Stonington	CT 06378
KALGG	Bob DeCosta	617/763-5539	617/674-4867	Box 64	Rochester	MA 02770
WIGG	Gary Gaudette	413/443-3404	413/494-4049	21 Westview Road	Lanesboro	MA 01237
WIGNC	John Nelson	203/243-9482	203/666-1541	32 Walker Lane	Bloomfield	CT 06002
KIGQ	Bill Myers	603/465-2673	617/944-6850 x 2116	Box 501 Laurel Hill Road	Hollis	NH 03049
KALGQW	David R. Berthiaume	401/333-1884		15 Orchard Drive	Cumberland	RI 02864
KIGW	Glen Whitehouse	603/673-6290	603/627-7877	1 Pinnacle Road	Amherst	NH 03031
KBIB	Dick Pechie	203/774-7034	203/269-3361	Box 265	CT 06241	
KMIH	Carl Huether	603/635-3048	617/967-3104	54 Hobbs Road	Dayville	NH 03076
KYIH	Dave Robbins	413/655-2714	413/494-2023	Baumann Road	Peru	MA 01235
NBIB	Marty Durham	603/964-5383	617/272-3000 x 1860	20 Old Locke Road	North Hampton	NH 03862
KIHI	Rex Lint	603/424-5088	603/884-6095	26 Brek Drive	Merrimack	NH 03054
KBIB	John A. Dority	203/774-4547	203/774-9246	RR 2 Box 447	Danielson	CT 06239
KALIDC	Ron McElroy	413/743-0515	413/499-5951	Outlook Avenue	Cheshire	MA 01225
WIIHN	Bert Michaud	617/459-6774		43 River Road	Lowell	MA 01852
KIJU	Norman Peacor	413/267-3266		Box 1148	East Orleans	MA 02643
KIJV	Jean Peacor	413/267-3266		Box 1148	East Orleans	MA 02643
KIKK	Al Johnson	802/464-5566	802/464-5566	P. O. Box 77	West Dover	VT 05356
KIUU	Jeff Bouvier	401/765-4444	401/751-9960	Jencks Road	Cumberland	RI 02864
WJIR	Joseph H. Reiser			17 Mansfield Drive	Chelmsford	MA 01824
KIJX	Clarke Greene	203/346-4308	203/265-8547	92 B Cynthia Lane	Middletown	CT 06457
KNIK	Robert B. Weinstock	617/620-1747		7A Edwards Road	Woburn	MA 01801
KBKE	Don DeZarn	413/623-5892	413/494-5671	P. O. Box 246	Middlefield	MA 01243
KIKI	Tom Frenaye	203/673-5429	203/275-5116	23 Pinehurst Road, Box 62	Unionville	CT 06085
KIKJT	Edward J. Peters	617/995-2427		29 Greenbrier Drive	New Bedford	MA 02745
WIKM	Greg Cronin	617/428-4205	617/540-8150	172 Old Mill Road	Marstons Mills	MA 02648
KIKNQ	Jack Rosiello	617/842-3301		32 Deerfield Road	Shrewsbury	MA 01545
KALKPH	Bob McCormick	413/786-7966	413/737-0295	P. O. Box 17	Feeding Hills	MA 01030
KALKRT	Jay M. Gaudette	413/443-3404		21 Westview Road	Lanesboro	MA 01239
KALKSF	Linda Hilinski	203/872-6197		17 Pilgrim Drive	Tolland	CT 06084
AKLL	Raymond Tabloski	603/893-0206		30 Hall Farm Road	Atkinson	NH 03811
NCLM	Hugh Masterman	617/692-8416	617/692-6000	24 Fletcher Road	Westford	MA 01886
KALMDG	John P. Corini	617/779-5424		22 Laurel Drive	Bolton	MA 01746
KIMEM	Jim Dionne	617/443-2345	617/577-4145	31 Demarco Road	Sudbury	MA 01776
KALMI	Dave Meldrum	617/686-4711	617/671-3044	28 Cedar Lane	North Andover	MA 01845
KIMM	Bill Poellnitz	617/879-6290	617/235-2000	44 Sunset Drive	Framingham	MA 01701
KIMNS	Larry Blown	603/432-5866	617/329-4050	52 Warner Hill Road	Derry	NH 03038
KSIN	Eric St. Cyr	413/663-3291		20 Hudson Street	North Adams	MA 01247
KALO	Greg Papadeas	603/883-7369	603/568-4160	12 Blueberry Lane	Nashua	NH 03062
KTIO	Steve Wedge	617/369-5977	617/475-4700 x 9373	1386 Main Street	Concord	MA 01742
KMIP	Joseph B. Fitzgerald	203/668-5864	617/791-7545	1210 Newgate Road	West Suffield	CT 06093
WIPH	Kurt Pauer	603/673-7201		P. O. Box 754	Amherst	NH 03031
KCLQ	David Jordan	617/668-1609		168 North Street	Walpole	MA 02081
KALQAH	Kevin Hilinski	203/872-6197		17 Pilgrim Drive	Tolland	CT 06084
KAIR	Matt Power	617/878-5717	617/253-2538	145 Grove Street	Norwell	MA 02061
KRIR	Billy Lunt	413/243-3230	203/666-1541	Main Road	Tyringham	MA 01264
WIRC	Robert Clarke	617/639-0536	617/232-5470 x 201	119 Washington St. #4	Marblehead	MA 01945
KALRE	Robert K. Adamson	413/443-0856		57 Quirico Drive	Windsor	MA 01201
KIRQ	Dana Cobb	413/655-8096	413/296-4751	East Windsor Road	Peru	MA 01235
WIRR	John Kenny	603/394-7921	617/681-6551	RFD Woodman Road	South Hampton	NH 03827
KIRU	Gene Frohman	203/393-1772	203/386-6137	52 Ridgewood Drive	Bethany	CT 06525
KIRX	Mark Pride	203/271-2076	203/265-8825	1130 Summit Road	Cheshire	CT 06410
AIIS	Bruce Terrell	413/442-6114	413/494-2739	P. O. Box 1922	Pittsfield	MA 01202
KISA	Bernie Cohen	207/773-6589	207/797-3585	194 Craigie Street	Portland	ME 04102
KISF	Bob Archambeault	617/885-2704		94 Chestnut Street	Spencer	MA 01562
KIST	Steve Tolf	603/772-6131		RFD 1 Box 176A	Exeter	NH 03833
KBIT	John G. David	603/673-9014	603/673-4100	P. O. Box 1015	Amherst	NH 03031
KITO	Dan Street	203/653-2343	203/563-8234 x 4117	10 Petersen Road	Granby	CT 06035
KLTR	Ed Parsons	603/437-0599	617/374-5695	9 Grandview Road	Windham	NH 03087
KITXH	Betty McCarthy			128 Forest Avenue	Hudson	MA 01749
NITZ	Bob Czajkowski	617/885-3841	617/885-3841	North Brookfield Road	Spencer	MA 01562
WALTZV	Jerry Muller	603/635-3890	617/667-7070	4 Garland Drive	Felham	NH 03076
WAIUAR	Michael McCarthy	617/692-3525	617/263-9929	91 Dunstable Road	Westford	MA 01886
WUQU	Mort Bardfield	617/734-6678	617/566-8613	16 Addington Road	Brookline	MA 02146

CALL	NAME	HOME PHONE	WORK PHONE	STREET ADDRESS	CITY	ST ZIP CODE
KP1V	Mark W. Olsen	203/627-6786	203/627-3429	7A Riverview Drive	East Windsor	CT 06088
KR1V	Dan Crites	409/693-7626		1700 Southwest Parkway Apt.	College Station	TX 77840
KALVC	George Smith	203/872-1440		198 Rainbow Trail	Vernon	CT 06066
KLVR	Fred Hopengarten	617/259-0088	617/969-1113	6 Willarch Road, RFD 1	Lincoln	MA 01773
KLVSJ	Howard Bromberg	401/884-4962	401/231-1000	21 Wingate Road	Providence	RI 02906
KLVUT	David Clemons	617/947-3784		148 Rocky Meadow Street	Middleborough	MA 02346
KB1W	Leonard Bean	413/443-0725	413/494-4325	62 Wellington Avenue	Pittsfield	MA 01201
WLWAI	David S. Allen			22 Saxony Drive	Sudbury	MA 01776
WLWEP	Jack Schuster	203/633-2756	203/565-0046	408 Thompson Street	Glastonbury	CT 06033
KLWN	Ray Crites	603/424-7397	603/472-3911 x 370	19 Hutchinson Road	Merrimack	NH 03054
KALX	Shirley R. Tabloski	603/893-0206		30 Hall Farm Road	Atkinson	NH 03811
KLXA	Robert Halprin		203/666-1541	P. O. Box 624	Newington	CT 06111
WLXX	Stan Kugler	203/756-6056		147 Grandview Avenue	Waterbury	CT 06708
KLXM	Paul J. Young	617/562-5819	617/264-5165	11 Michigan Drive	Hudson	MA 01749
KALXN	Bob Wilson	413/739-6369	617/552-5344	179 Knollwood Street	Springfield	MA 01104
WLXX	John Lindholm	203/727-9296	203/666-1541	567 Broadview Terrace	Hartford	CT 06106
MB1Y	Don Nelsen	617/729-8362	617/568-4453	97 Cambridge Street	Winchester	MA 01890
KLYL	Claire Bardfield	617/734-6678		16 Addington Road	Brookline	MA 02146
WLYN	Ed Goodhue	617/947-2342	617/678-5800	17 Parkhurst Drive	Lakeville	MA 02346
KLYR	Louis Cohen	203/393-1473		50 Bethridge Road	Bethany	CT 06525
AD1Z	William Clemons	617/871-1778	617/871-1778	1140 Plymouth Street	Whitman	MA 02382
WA1ZAM	Ed Landry	413/663-8126		140 Cliff Street	North Adams	MA 01247
KALZE	Stan Milinski	203/872-6197	203/649-3258	17 Pilgrim Drive	Tolland	CT 06084
KLZM	Jeff Briggs	914/221-2450	212/808-0173	R. D. 6 Box 72	Hopewell Junction	NY 12533
KA2AEV	Michael Samanka	212/326-2792		6407 72nd Street	Middle Village	NY 11379
N2AIF	Seymour Miller	518/286-1328	518/457-2540	Miller Road R. D. 1	Rensselaer	NY 12144
WA2CNF	Bob Shaw	617/874-2856	617/343-1441	14 Fenno Drive	Westminster	MA 01473
KB2CR	John Fritz	518/869-0809	518/869-7880	1659 Central Avenue	Albany	NY 12205
K2EK	Bill Gioia	914/221-1672	203/964-3554	RD 7 Rushmore Road	Hopewell Junction	NY 12533
N2GC	Michael Musitano	516/741-6876		93 Roslyn Road	Mineola	NY 11501
W2IB	Art Wildblood	914/331-2864	914/383-7742	RFD 7 East Drive	Kingston	NY 12401
N2JJ	Jim Janack	518/882-9216		RFD 2 Box 44	Galway	NY 12074
WB2KMY	Doug Sharp	914/471-0946		24 Walnut Hill Road	Poughkeepsie	NY 12603
NJ2L	Rus Healy	203/225-0387	203/666-1541	225 Main Street	Newington	CT 06111
K2OY	Bruce Robideau	914/677-5717	914/463-9222	P. O. Box 311	Millbrook	NY 12546
KN2Q	Bill Michne	518/283-2692	518/445-8964	R. D. 2 Box 146	Averill Park	NY 12018
KU2Q	Susan Tannenbaum	914/687-9700	914/385-3688	Box DX	Cottkill	NY 12419
K2QF	Mike Kardos	518/462-2821	518/767-6591	1 Fiddlers Lane	Rensselaer	NY 12144
W2RQ	Bill Keller	201/383-6875	201/649-6551	Rt. 7 Box 378	Newton	NJ 07860
KZ2S	John Golomb	201/449-3811		107 Bailey Corner Road	Wall	NJ 07719
WA2SPL	Joe Krone	802/796-2757	518/561-5555	P. O. Box 373	Albany	VT 05440
K2TR	Fred Lass	518/355-4813	518/346-6666	RD 1 Box 301	Altamont	NY 12009
K2VV	John Yodis	518/843-3897	518/370-4200 x 31440	P. O. Box 460	Hagaman	NY 12086-0460
K2WR	Rich Gelber	212/580-1075	212/887-3675	205 West End Avenue	New York	NY 10023
NT2X	Edward Kritsky	718/284-4493	212/484-8342	580 East 17th Street, Apt. 2	Brooklyn	NY 11226
W2YV	Dave Horbachuk	914/354-4048	914/463-0571	P. O. Box 181	Billings	NY 12510
AA2Z	Mark Wilson	203/267-2179	203/666-1541	229 East High Street	East Hampton	CT 06424
KA2ZPD	Stephen King	914/687-9700		P. O. Box DX	Cottkill	NY 12419
WB3ANE	Hope Smith	203/521-5086		194 Ridgewood Road	West Hartford	CT 06107
W3AED	Don Search	203/521-5086	203/666-1541	294 Ridgewood Road	West Hartford	CT 06107
AI3E	Dwight Sipler	617/897-5996	617/861-3045	493 Great Road	Stow	MA 01775
WB4FDT	Phil Sager	203/233-4843	203/666-1541	126 Whiting	West Hartford	CT 06119
AK4L	Gerry Hull	603/293-4911	603/228-2340	RFD 5 Box 328	Gilford	NH 03246
K5NA	Richard King	914/687-9700	914/385-1122	P. O. Box DX	Cottkill	NY 12419
K5ZD	Randy Thompson				Pittsburgh	PA
K8HVT	Hal Offutt	203/655-2837	212/912-7185	25 Libby Lane	Darien	CT 06820
WA8SWM	Steve Boone	617/533-8769	617/841-3351	15 Diane Drive	Medway	MA 02053