



ZERO BEAT

Southeastern Massachusetts
Amateur Radio Association, Inc.
54 Donald Street
South Dartmouth, MA 02748



OUR 67TH YEAR

Volume 35, Issue 12 ❖

SEMARA ❖

December 1999



SEMARA CHRISTMAS PARTY

The club's annual Christmas Party will be held on December 11, 1999 in the "Executive Room" at Thad's Steakhouse in New Bedford. The cocktail hour starts at 6 pm, with dinner scheduled for 7 pm. The deadline for purchasing tickets has passed.

There will be a gift exchange for those members interested in such an event. Any member bringing a gift shall get a gift. It is requested that gifts be limited to \$5.00 in cost with men's gifts wrapped in blue or green paper, and women's gifts wrapped in red or pink. In lieu of colored paper, a tag marked "man" or "woman" can be used.



MEETING HIGHLIGHTS

The November business meeting was called to order at 7:05 pm by President Chris Smith. Twenty-nine members were present. Following the salute to the flag and roll call, the Secretary's report was read and accepted. There was no Treasurer's report, as the Treasurer was absent.

Committee reports followed: *Technical* – Repeater cavities retuned and bad coaxial connector replaced. Backup battery installed and on-line. Blow diode in repeater power supply replaced. *Activities* – No report. *Buildings and Grounds* – No report. *Ham Class* – No report. *Scholarship* – No report. *Constitution* – Draft copy should be available soon for review on Sunday mornings. *Tower* – Tower yard graded. Ground system cad-welded to tower legs. Phone company doing work on street in preparation for phone line installation. *Communications*—None.

Ratifications – Peter Szala, N1NDJ, and Louie Whitlow, WA1GDE, reinstated as members.



RICK CABRAL, N1RFI, AT WORK ON THE 440 REPEATER

ZERO BEAT

Published monthly by the
**Southeastern Massachusetts
 Amateur Radio Association, Inc.**
 54 Donald Street,
 South Dartmouth, MA 02748

EDITOR

William M. Miller Jr. K1IBR
 Phone: (508) 996-2969
 E-Mail: k1ibr@lrh.net

ADVERTISING

Commercial ads the size of a business card will be accepted. Rates are \$5.00 for one insertion, \$20.00 for six insertions, and \$35.00 for twelve insertions.

Non-commercial ads up to forty words in length will be accepted. Rate is \$3.00 for one or \$12.00 for six insertions. Club members have one free non-commercial ad per month.

 THE DEADLINE FOR
 SUBMITTING ARTICLES FOR
 PUBLICATION IS THE 15TH
 OF THE PRECEDING MONTH.

MEETING- continued from page one

Old Business - The vote on the Constitutional amendment lowering dues to \$10 per year was passed (23 Yea, 6 Nay).

The club history book is nearing completion and any member with recollections they would like to see included is urged to contact Bill Miller at 996-2969.

New Business - The next issue of ZERO BEAT will have full information on registering your call with the FCC as required by the new ULS System.

The nominations for next year's officers tendered by the nominating committee are:

- PRESIDENT - Chris Smith, K1CJS
- V. P. - Bob Metivier, N1XZJ
- SEC. - Henry Blanchett, W1GYL
- TREASURER - John Carreiro, W1ZYV
- BOARD OF DIRECTORS -
 Marty Jordan, KA1YFV
 Scott Szala, W1EV
 Bill Miller, K1IBR
- TRUSTEE - Ed Blouin, KA1AW

Nominations were opened from the floor, but no additional nominations were forthcoming from the membership.

The minutes of the recent Board of Director's meeting were accepted as read.

For the Good of the Club - Nothing mentioned.

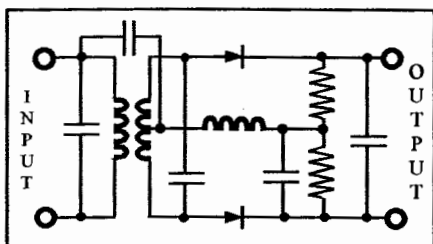
The meeting was adjourned at 7:52 pm.

**NEXT SEMARA
 VE SESSION**
December 4, 1999
10:30 am
SEMARA Clubhouse

**LOCAL
 VE SESSIONS
 IN DECEMBER**

- 09 Providence, RI**
 Judy Nelson
 401-231-9156
- 11 Falmouth, MA**
 Ben Fleck
 508-540-2583
- 13 Brookline, MA**
 Bob Wondolowski
 508-865-5822
- 18 Marlborough, MA**
 William Wade
 781-891-9079
- 22 Cambridge, MA**
 Nick Alterndbernd
 617-253-3776

NAME THAT CIRCUIT



- 1.) Ratio Detector
- 2.) Product Detector
- 3.) High-Level Mixer
- 4.) Amplitude Limiter
- 5.) Frequency Discriminator

ANSWER - See page 7

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 Manager
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"It is better to be defeated on principle than to win on lies."

Arthur Caldwell

CLUB NOTES

December! The Christmas party month... The big day falls on Saturday this year. Who knows, by then we may finally see some snow and enjoy a white Christmas.



Two former members were reinstated at the November business meeting - **Peter Szala, N1NDJ**, and **Louie S. Whitlow, WA1GDE**. *Welcome back fellows!*

WELCOME BACK!

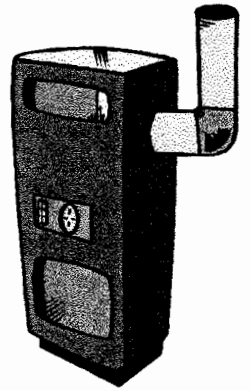
Talk about working up a sweat! Long time member **Tim Smith, N1BTQ**, did just that digging a trench in his yard to install a conduit for his coaxial cables. The scuttlebutt is that his wife insisted that no "ugly" coaxial cables be seen in *her* yard! Tim, however, has a different version of why he undertook the "Big Dig"...



The book outlining the history of our club is nearing completion. Any member with historical information, recollections of past events, or interesting trivia about our club is urged to contact **Bill Miller, K1IBR**. Your input is very valuable, for the real history of our club is reflected in the personal recollections provided by its members. Bill can be reached at (508) 996-2969.



Members are reminded to please keep the door to the radio room and the door to the Quonset hut SHUT during the winter months to conserve heat. Leaving either door open taxes the heating system as it tries to heat the Quonset hut.



The ARRL has set the VE test fee for the year 2000 at \$6.65. As usual, there is still no fee for those taking the novice exam elements 1A and 2.



Check this out! A super list of all repeaters in New England. The list is maintained by club member **Jeffrey Lehmann, N1ZZN**. The URL is:

www.qsl.net/n1zzn/nerep

Jeff also updated the repeater list on the last page of ZERO BEAT. *Thanks a million, Jeff!*

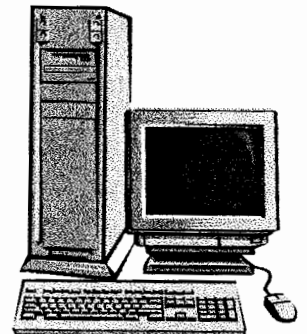


"I know it is listed in here somewhere..."

The club now has an E-Mail address:

W1AEC@arrl.org

Any mail sent to it will be forwarded to the club president. No, he really doesn't want any SPAM! (Computereese for JUNK MAIL.)



Election of the year 2000 officers shall take place during the December business meeting. Be sure to attend and vote for your candidate of choice.



FCC IMPLEMENTS UNIVERSAL LICENSING SYSTEM (ULS)

*ALL AMATEURS MUST REGISTER BEFORE RENEWING,
MODIFYING, OR UPGRADING THEIR LICENSE IN THE FUTURE*

Last August 16th, the FCC instituted use of the Universal Licensing System (ULS) for all application and licensing activity in the Amateur Radio Services.

The ULS is an interactive licensing database developed by the FCC's Wireless Telecommunications Bureau to consolidate and replace eleven existing licensing systems (both commercial and amateur) previously used to process and grant licenses. All amateurs must register with the system *before* any action can be completed on their license, such as renewing, modifying, or upgrading. It is strongly advised that all amateurs register now to avoid problems in the future.

As part of the new system implementation, Form 610 and 601V will be phased out over a six month period ending February 16, 2000. However, Club, Military and RACES licensees will continue to use Form 610B until further notice. During this phase out period, any Form 610 or 610V submitted **MUST** have the applicants Social Security Number written across the top of the form. However, if you previously registered with the ULS system, in lieu of your Social Security Number (SSN), you may use your FCC assigned "Licensee ID Number". That number will be an "L" followed by eight digits such as L12345678.

Two new forms shall be used for future amateur radio licensing activity, Forms 605 and 606. Form 605 shall be used for station and operator license renewals, modifications, cancellations, application withdrawals, application amendments, requests for duplicate licenses, change of address, correction of any information on applications, and vanity call sign applications. In other words, Form 605 can be used for just about anything an amateur needs to do regarding his license, except register with the system. That is addressed with Form 606 - the "TIN Registration Form".

Both Form 605 and 606 require the submission of a Taxpayer Identification Number (TIN) which for individuals is their Social Security Number (SSN), and for businesses the IRS provided Employer Identification Number (EIN). The submission of this information is mandated by the Debt Collection Improvement Act of 1996. Under the act, any entity doing

business with any government agency **MUST** provide their TIN, SSN, or EIN. For most individuals, the TIN and SSN are one and the same.

The best way to register is via the Internet. You should have a password thought up along with a personal identifier (like your mother's maiden name or such). The whole process took 7 minutes when I tested it before writing this article. When done, you

will get a printout of all the information for your records. Save that printout in a secure place! See the next page for details on how to register via the Internet.

If you register by mail using Form 606 or via a VEC registration process, before you can file applications electronically in the future, you must call the FCC ULS

Technical Support office and get a password. The ULS Technical Support office can be reached at 1-202-414-1250. VEC registration occurs when you upgrade or submit any application via a VEC. See the next page for details on manually filing with the ULS system.

Although you can register with ULS via the Internet, **electronic filing** under the ULS system can **ONLY** be completed via a special toll-free number (for added security). That number is 1-800-844-2784. Full details on connecting to the ULS system via this number (24 hours a day) are available at:

<http://www.fcc.gov/wtb/uls>

RECOMMENDATION

My recommendation is to register right now via the Internet and get a printout of your registration, even if you have to impose on a friend to do it with his computer. Worry about the rest when it's time to upgrade or renew!

Editor

NEED MORE INFORMATION?



Contact the FCC call center at:
1-888-225-5322,
1-202-418-0190 or,
the FCC Technical Hotline at:
1-202-414-1250
(Monday-Friday, 8 am-6 pm)

On the Internet, go to:
<http://www.fcc.gov/wtb/uls>



ULS REGISTRATION VIA THE INTERNET



1. On the Internet, open <http://www.fcc.gov/wtb/uls>
2. Click on the "TIN/Call Sign Registration" button.
NOTE: This opens a secure connection - you must have your Internet security features enabled. If you have problems, click in order: tools, internet options, advanced, and under "security" check off PCT 1.0, SSL 2.0, SSL 3.0, and TLS 1.0
3. Select "Register Now", then click on "Continue".
4. Select "Individual", then click on "Continue".
5. Form 606 appears. (Internet Version) →
Fill it out completely, then click on "Submit" (At the bottom of the screen.)
6. Be sure to print out a copy of the Confirmation/Registration form that appears on the computers screen. Keep it in a secure location, as it not only has your password and personal identifier, but also the FCC "Licensee ID Number". You will need this information in the future to use the ULS system.

Federal Communications Commission
Wireless Telecommunications Bureau
Universal Licensing System - TIN/Call Sign/ASN Registration

FCC 606
Approved by OMB
MAY 1999

Licensee Information:

Taxpayer Identification Number (TIN):

First Name:	Middle Initial:	Last Name:	Suffix:
P.O. Box:	And/Or	Street Address:	
City:		State:	Zip Code:
Telephone:		Fax:	
E-Mail:			

Contact Information:

Contact Entity Name:

First Name:	Middle Initial:	Last Name:	Suffix:
P.O. Box:	And/Or	Street Address:	
City:		State:	Zip Code:
Telephone:		Fax:	
E-Mail:			

New Password (must be at least 5 characters):

 Verify Password:

 Personal Identifier (e.g., mother's maiden name):

Please review the NOTICE TO INDIVIDUALS before submitting this application.

NOTICE TO INDIVIDUALS | 501.011 | 25.111 | 31.111



ULS REGISTRATION VIA US MAIL

(NOT RECOMMENDED)



- 1) Secure a copy of FCC Form 606, "TIN Registration Form". Several copies (with instructions) are available at the clubhouse. You also can get copies off the Internet at <http://www.fcc.gov/formpage.html>, or by calling the FCC's Forms Distribution Center at 1-800-418-3676. →
- 2) Completely fill out the form according to the instructions.
- 3) Mail the completed form to:

Federal Communications Commission
 Information Technology Division
 Attention: Kathy McLucas
 1270 Fairfield Road
 Gettysburg, PA
 17325-7245

FCC 606
TIN Registration Form

Approved by OMB
MAY 1999
See instructions for public number edition

Licensee/Individual Structure/Owner Information

1) Taxpayer Identification Number (if applicable) 16) TIN/Call Sign Identification Number (1 character only)

2) First Name (if individual) MI Last Name Suffix

3) Entity Name (if other than individual)

4) P.O. Box And/Or 5) Street Address

6) City 7) State 8) ZIP Code

9) Telephone Number 10) FAX

11) E-Mail

Contact Information (if different from the applicant)

12) First Name MI Last Name Suffix

13) Entity Name

14) P.O. Box And/Or 15) Street Address

16) City 17) State 18) ZIP Code

19) Telephone Number 20) FAX

21) E-Mail

22) Appointed Wireless Telecommunications Valid Call Signs (attach additional sheets if necessary)

23) Address Directory Registration Numbers (attach additional sheets if necessary)

FCC 606 May 1999 - Page 1



FOXHUNT REPORT

BOB & HENRY NOT FOUND - THEY WILL HIDE AGAIN!

It was a night to remember. Bob and Henry said, "Pack a lunch!" All the hunters laughed and said, "Yeah, sure..." Well, not a single hunter found Bob & Henry. They will hide again next month in their "secret" hiding spot.

Later that evening after the hunt was called off, the whole crew went to Ruby Tuesday's restaurant at the Mall for a bite to eat. All attempts to get even a hint of where they hid were futile. They got a good thing going, and they obviously plan to "milk" it as long as humanly possible!

THIS IS A CALL TO ARMS! We must find them next month. Maybe it's time to start sharing coordinates among the hunters in an effort to zero in on this elusive, wily fox. All available direction finding equipment and member talent must be pressed into service to assure that Bob & Henry don't pull off this stunt again. As it is, the bragging is unbearable. Imagine what it will be like if they go on to month three!

It is suggested that all fox-hunters meet a good half-hour before next month's hunt to map out a winning strategy. We will prevail! Bob & Henry will go DOWN next month.

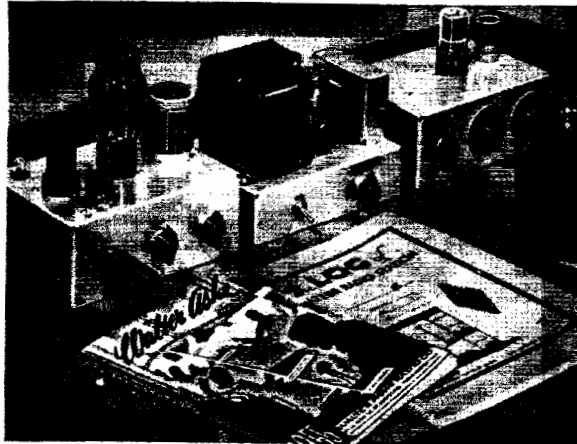
NOTE TO BOB & HENRY

We hope you are following the foxhunt rules. There will be hell to pay if we find you "bent" the rules even a micro-inch!

REMEMBER WHEN?

Page from 1955 Walter Ashe catalog - Courtesy Joe Fortin, K4KTZ

WALTER ASHE NOVICE STATION KITS



THREE KITS ONLY \$44.95

Read about them in the pages of RADIO AND TELEVISION NEWS (September and October 1953). Get one or all of these swell units... with chassis already punched... ready for quick and easy assembly from simple directions furnished free with each kit.

NOVICE TRANSMITTER KIT

Two tubes—6AG7 crystal oscillator and 6L6G final amplifier. The modified Pierce oscillator is especially noted for its excellent keying and minimum crystal strain. No fancy antenna array necessary. Pi section output circuit will work with any length wire for antenna. Simple to tune. 25 watts input to final amplifier on 80 and 40 meter Novice bands. Pilot light tuning indicator. Kit includes tubes, punched chassis, hardware, one crystal in holder for the 80 meter Novice band and one plug-in coil form for final amp. Less key, hookup wire and solder.

SHIPPING WEIGHT 4 LBS. MODEL WAT-25. NET...\$17.31

Novice Power Supply Kit

Furnishes filament voltage and plate power for BOTH receiver and transmitter. Husky enough to supply full input to transmitter and well filtered for hum-free receiver operation. Uses 5Y3GT rectifier and OD3 voltage regulator. The OD3 supplies 150 volts dc (regulated) to the receiver and to the screen grid of the transmitter's crystal oscillator. High voltage furnished to the transmitter is 350 volts dc at 100 milliamperes and the filament voltage for the receiver and transmitter is 6.3 volts at 4.7 amperes. Has AC On-Off switch and Send-Receive switch. Complete kit of parts with tubes, punched chassis and hardware, less hookup wire and solder.

SHIPPING WEIGHT 12 LBS. MODEL WAP-25. NET...\$14.23

NOVICE RECEIVER KIT

This two stage receiver uses a twin triode 6SN7GT as a regenerative detector and audio amplifier. Its unusual stability is due, in a large part, to the regulated voltage from the OD3 regulator tube in the power supply. Bandspread—plenty of it—100 dial divisions of the bandspread dial on the 80 meter Novice band (3700-3750 kc) and 70 divisions on the 40 meter Novice band (1715-1720 kc). 80 meter coil covers 3.5-8 mc on main tuning dial. 40 meter coil covers 6.5-18 mc on main tuning dial. Complete kit with tube, punched chassis, hardware and one plug-in coil form. Less headphones, hookup wire and solder.

SHIPPING WEIGHT 4 LBS. MODEL WAR-25. NET...\$13.41

A COMPLETE AMATEUR RADIO STATION Three Easy-to-Assemble Kits Includes all parts and PUNCHED metal chassis

FEATURES of the COMPLETE NOVICE STATION

- (1) A two tube transmitter kit — 25 watts input to final stage.
- (2) A "hot" little two stage receiver kit with plenty of bandspread.
- (3) One power supply kit for both receiver and transmitter.

- ★ COMPLETE INSTRUCTIONS ★ STANDARD PARTS USED THROUGHOUT
- ★ ECONOMICAL USE OF ONE POWER SUPPLY ★ LOWEST COST POSSIBLE
- ★ ALL KITS INCLUDE punched METAL CHASSIS, TUBES AND HARDWARE
- ★ A.R.R.L. HANDBOOK CIRCUITS ★ KITS MAY BE PURCHASED SEPARATELY

KITS MAY BE PURCHASED SEPARATELY. If you are a beginner, you can start out right now with the receiver and power supply kits. Just as soon as you get your license, you can be on the air with only the addition of the swell transmitter kit. Or if you already have a receiver, the transmitter and power supply kits will put you in business with an outstanding signal in the 80 and 40 meter Novice bands—and most important of all—LOOK AT THE LOW COST.

ACCESSORY ITEMS	
1 roll hookup wire, 25 feet	\$.44
1 extra plug-in coil form for receiver kit	.51
1 extra plug-in coil form for transmitter kit	.34
1 J-38 telegraph key	.98
1 phone plug for key	.38
1 100 feet #14 enamel covered antenna wire	1.25
2 antenna insulators @ .21	.42
1 SPDT antenna changeover knife switch	.30
1 No. 25 Trimm Acme headset	1.97

WALTER ASHE RADIO CO. PHONE CHESTNUT 1-1125
1125 PINE ST. ST. LOUIS 1, MO.

IT REALLY HAPPENED!

Dick Stuart, WF7A, threw together a ground-plane antenna designed to "knock the socks off" all other antennas. At the exact second he keyed his transceiver to test the new antenna, an earthquake registering 5.2 on the Richter scale hit his home! Now, that's an antenna with a WALLOP!

TECHNICAL TIPS

So, you picked up some transistors real cheap at a Flea-market or in a box of "goodies" at an auction, but you don't know their ratings. First stop is the ECG cross reference catalog. If that doesn't help, then try going to the manufacturer's site on the Internet. To find the manufacturer's site use:

www.electrobase.com/index.htm

Next, use the search engine on the home page to find the data sheets, and if you're lucky maybe an application sheet or two! Still no luck? Then try these sites:

www.questlink.com

www.eg3.com/srcnet.htm

www.chipdir.com/index.htm

2000 FLEAMARKETS

- Feb 19 - Marlborough, MA
- Mar 18 - Saugus, MA (auction)
- April 2 - Southington, CT
- April 16 - MIT Cambridge, MA
- May 12, 13 - HowTraders Rochester, NH
- May 29 - Foxendale, RI
- May 31 - MIT Cambridge, MA
- June 18 - MIT Cambridge, MA
- July 16 - MIT Cambridge, MA
- Aug 28 - MIT Cambridge, MA
- Aug 26, 27 - Buxton, MA

NET DIRECTORY

—Sunday—

- 8 am 28.375 SEMARA NET
- 9:30 am 50.225 Yankee SSB
- 7 pm 147.000+ Swap Net

— 4th Sunday —

- 9 pm 449.575 EM-ARRL

— Daily —

- 5:30 pm 3.915 EM/RI NTS ssb
- 7&10 pm 3.658 EM/RI NTS cw
- 6:45 pm 147.315+ NTS/Trivia
- 7 pm 146.550 SEMARA NET
- 8 pm 145.230- EM-NTS

— Monday to Friday —

- 8 am 14.262 SEMARA NET
- 8 pm 145.490- Weather

— Thursday —

- 8 pm 147.180+ Trivia

— Saturday —

- 1800G 14.300 Coast Guard

— SEMCARES NET —

- 1st Sunday of the month at 7:30 pm
- 145.490- (Fairhaven Repeater)

VISIT THE SEMARA WEBSITES



WWW.LRH.NET/SEMARA/SEMARA.HTM

MEMBERS.AOL.COM/RICABRAL/HAM/SEMARA

"NAME THAT CIRCUIT" ANSWER

5. Frequency Discriminator

SEMARA OFFICERS

1999



- President** Chris J. Smith, K1CJS
- Vice-President** Robert Metivier, N1XZJ
- Secretary** Henry Blanchett, W1GYL
- Treasurer** Bradford Anselmo, N1VUF

Board of Directors:

- Andrew Reuter, WA1FNM
- Martin Jordan, KA1YFV
- Scott Szala, W1EV

Trustees:

- William M. Miller Jr., K1IBR- Chairman
- Norman Riley, W1ATI
- Frank Fonseca, WB1ASD
- Martin F. Jordan, KA1YFV
- William Vincent, W1POW

SEMARA EVENT CALENDAR

DECEMBER 1999

- 2 - Business Meeting, 7:00 pm
- 4 - VE Session, 10:30 am
- 9 - 2 Meter Foxhunt @ clubhouse, 7:00 pm
- 11—SEMARA Christmas Party, 6 pm, Thad's Steakhouse

MERRY CHRISTMAS!

JANUARY 2000

- 6 - Business Meeting, 7:00 pm
- 8 - VE Session, 10:30 am
- 13 - 2 Meter Foxhunt @ clubhouse, 7:00 pm
- 20 - Tech-Talk, "Internet Packet Gateway" by Matt Vangel, KA1THM - 7:00 pm

SEMARA

Coffee Hour at the clubhouse every Sunday at 9:00 am. Drop by and ragchew!

LOCAL REPEATER DIRECTORY

Frequency	CTCSS	Call	Location
144			
145.150 -	123.0	WAIDGW	Fall River
145.490 -		KA1WBF	Fairhaven
146.445 +1Mhz	91.5	KBIBWN	Dartmouth
146.655 -	88.5	WAIGPO	Falmouth
146.685 -		WILM	Plymouth
146.955 -	88.5	KIPBO	Dennis
147.000 +	67.0	W1AEC	Dartmouth
147.045 +		WA1AIC	Dennis
147.135 +	67.0	ND1N	Taunton
147.180 +	67.0	WIMV	Bridgewater
147.315 +	156.7	NIBBT	Wareham
220			
224.340 -		K1KEK	Dennis
224.840 -	100.0	K1LIQ	Tiverton, RI

Frequency	CTCSS	Call	Location
440			
441.400 +	192.8	WGIU	Assonet
442.200 +	88.5	NINRL	Fall River
442.350 +		NIOFD	Acushnet
442.600 +	100.0	K1LIQ	Tiverton, RI
443.450 +	88.5	K1MYL	Westport
443.500 +	141.3	KIPBO	Barnstable
443.600 +		NSIN	Norwell
443.800 +	88.5	NIRFH	Dartmouth
444.200 +	118.8	NIYHS	Bourne
443.850 +	131.8	WIARM	Chatham
444.250 +	141.3	WAIGPO	Falmouth
444.350 +	88.5	W1ACT	Fall River
444.550 +	88.5	WIMV	Bridgewater
447.075 -	88.5	N1DZD	Kingston

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SEMARA

Southeastern Massachusetts Amateur Radio Association, Inc.
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January 2011

FIRST CLASS