



# ZERO BEAT

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



Since 1932

Volume 45 Issue 3

SEMARA-W1AEC

March 2009

## Spring is Sprung!



**S**een on a Sunday morning last fall. This rider is sure to be seen around the clubhouse this spring. Will the bike be sporting antennas?



### FRIDAY LUNCH BUNCH

**BILL-W1POW, BOB-K1KVV AND ARMAND-W1BUG**  
IN FRONT OF **BURGER KING** ON COVE ROAD, NB.  
PHOTO BY **RAY-WB1EVX**.

### WHAT'S INSIDE

- |   |   |
|---|---|
| <p>2. <b>It seems to me...</b><br/>Point to Ponder<br/>Hammin' Around</p> <p>3. <b>Club Notes</b><br/>Last Reminder:<br/>Assessment<br/>900 MHz Freq. Pair<br/>Next VE Session<br/>Local Nets<br/>Club Details<br/>SUDOKU</p> <p>4. <b>Meeting Minutes</b><br/>March 5, 2009</p> <p>5. <b>SEMARA News</b><br/>Meeting Minutes<br/>January 31, 2009<br/>Board of Directors<br/>BSA Radio Merit<br/>Badge</p> | <p>6. <b>More SEMARA News</b><br/>BSA Radio Merit<br/>Badge (continued)<br/>Re-Grading Permit<br/>World Radio Online</p> <p>7. <b>VE Sessions List</b><br/>Some Contests<br/>Coming Fleas &amp; Fests<br/>All- &amp; Most-of-the-Time Activities</p> <p>8. <b>Local Repeaters List (expanded)</b><br/><b>Answers:</b><br/>Hammin' Around<br/>Sudoku</p> |
|---|---|

### LETTER TO THE EDITOR

I would like to take this opportunity to thank all who offered me their help in purchasing and installing an HF antenna (a G5RV off-center fed dipole). There were many discussions on Sunday mornings in regards to it.

I especially wish to thank **Dave Dean, K1JGV** and **Marty Jordan, KA1YFV** for their assistance in installing the line for the dipole into the tree and the necessary trimming of branches. [Dave did the ladder climbing and the arborist chores.] Also thanks to **Don Rosinha, WA1BXY** for his donation of a balun transformer.

*73 de Joe, W1JFI*

## ZERO BEAT

Published online monthly  
 ©2009 Southeastern Massachusetts  
 Amateur Radio Association, Inc.  
 54 Donald Street,  
 South Dartmouth, MA 02748  
 (508) 997-7070

EDITOR Bob Kelley - K1KVV  
 E-mail: [editor@semara.org](mailto:editor@semara.org)

SEMARA: <http://www.semara.org>  
 E-mail: [clubinfo@semara.org](mailto:clubinfo@semara.org)

### 2009 SEMARA OFFICERS

*President*  
 Louis Mester - W1CH  
*Vice President*  
 Bob Kelley - K1KVV  
*Secretary*  
 Marcel Dumont - W1MLD  
*Treasurer*  
 Mike McDonald - KB1NB

### Directors:

Dave Dean - K1JGV  
 Dave Goldstein - W1DJG  
 Dick Halliwell - K1AHA

### Trustees: (year term is up)

Mike Miller - N1ITQ (2009)-Chair  
 Charlie Days - WA1JFD (2010)  
 Tim Smith - N1TI (2011)  
 Henry Blanchett - W1GYL (2012)  
 John Walsh, WA1LSH (2013)

### STANDING COMMITTEES

*Building and Grounds*  
 Dave Dean - K1JGV  
 Marty Jordan - KA1YFV  
*Scholarship*  
 Larry Houbre, Jr. - AA1FS  
*Technical*  
 Dave Goldstein - W1DJG

### SPECIAL COMMITTEES

*Activities*  
 Scott Szala - W1EV  
 ARES/SKYWARN  
 Rob Macedo - KD1CY  
 QSL Manager  
 John Nery - WA1ESO  
*Radio Events*  
 Bob Kelley - K1KVV  
 Repeater  
 Rick Cabral- W1RJC,  
 Dave Goldstein - W1DJG  
*Website*  
 Tim Smith - N1TI

## It seems to me ...

de Bob - K1KVV <[editor@semara.org](mailto:editor@semara.org)>



This is the month for part of the "shared" 40 meter allocation to end — On 29 March, shortwave broadcasters are supposed to vacate their 7100-7200 kHz allocation. Will "listening on..." no longer be heard during DX phone contests? Who knows! Hams in ITU Regions I and III will be busy monitoring the remaining shortwave broadcasters in that band to be sure they do move as required by international treaty.

Here's a different kind of sprint. WSJT monthly sprints began on Saturday, February 28 and ran from 4 AM to noon (local time). WSJT is a popular software suite created by Joe Taylor, K1JT <<http://www.physics.princeton.edu/pulsar/K1JT/>>. It is used to make digital contacts by reflecting signals off the ionized trails left by meteors (a technique known as meteor scatter). The same software can be used to make contacts by using the moon as a radio reflector (moon bounce). WSJT Sprint points are based on the distances worked. Participants are allowed to make random or assisted contacts (skeds via Ping Jockey <<http://www.pingjockey.net/cgi-bin/pingtalk>>). Enter as 6 meter only, 2 meter only or Combined class. Simultaneous 6/2 meter operation is permitted in the Combined class. Complete rules are available online <<http://www.ykc.com/wa5ufh/>>; click on "Sprints" in the content bar on the left. [*Seems like a Tech Talk on WSJT might be in order.*]

Field Day station locator service is returning for 2009. First introduced in 2008, the ARRL's Field Day Station Locator Service <<http://www.arrl.org/fieldday>> was a popular addition to the Field Day toolbox. This service — an interactive map that helps amateurs or those interested in Amateur Radio find a Field Day site near them — is free to clubs or individuals who will be operating public Field Day stations. If SEMARA would like to participate — just go to the Field Day Station Locator Web site and follow the instructions <<http://www.arrl.org/contests/announcements/fd/locator.php>>. *Is SEMARA up for a public demonstration of our operating capabilities?*

## POINT TO PONDER

**“Our failure to choose may become the choice we have to live with.”**

~Robert Stein

## HAMMIN' AROUND

**Question\* G1E04** Which of the following conditions require an amateur radio station to take specific steps to avoid harmful interference to other users or facilities?

- When operating within one mile of an FCC Monitoring Station
- When using a band where the amateur service is secondary
- When a station is transmitting spread spectrum emissions
- All of these answers are correct

\* 2007 Element 3 General Class Question Pool (good thru 2011-06-30)

Answer on page 8

# Club Notes

## LAST REMINDER

**Every member assessment of \$10.**

The assessment is being collected during the first quarter of 2009, beginning with the January business meeting and ending with the April business meeting.

Members will be notified via email using the SEMARA announcement email list. Members without an active email account will be notified via first-class US mail at their FCC address. Members who cannot be reached or have not paid the assessment will be marked in arrears after the April 2009 business meeting.

The Vice-President serves as the collector for the assessment. The Treasurer accepts cash – only at the business meetings, please.

~Editor

Here's a challenging Sudoku puzzle to attack while waiting for the band to open. Letters used: **C, D, G, I, K, N, O, P, X**. The main diagonal spells a 9-letter word. **Solution is on page 8.**

						O		
	O		C		I		G	
P	G		O	D				I
			D		X			
	P			O			X	
			P		N			
D				P	C		K	X
	X		I		D		N	
		I						

## NEXT SEMARA VE SESSION

**Apr. 4, 2009—Clubhouse @ 10:30 AM**  
 Contact: Larry Houbre-AA1FS  
[LRHguy@earthlink.net](mailto:LRHguy@earthlink.net)  
 508-991-6055

## SEMARA 900 MHZ FREQ. PAIR

**927.8375 MHz (repeater output)**

**902.8375 MHz (repeater input)**

Details about the new repeater coming soon.

## LOCAL NETS

*Everyone is welcome to check in!*

**147.000+ (PL 67.0 Hz) (FM) — Roundtable “Camel” Net** is held *every evening* at 7 p.m. on the SEMARA Repeater, **W1AEC**.

**50.200 MHz (USB) — Net** is held *Wednesdays* at 8:30 p.m. **Bob, N1HCW** (Acushnet) is net control.

**28.490 MHz (USB) — Net** is held *Tuesdays* at 8:30 p.m. **Bob, N1HCW** (Acushnet) is net control.

**3862 kHz (LSB) — SEMARA Morning Net** is held *weekdays* from 7:30-8 a.m. ET

**3545± kHz CW — SEMARA CW Net** meets every Monday at 8:00 p.m. **Don, WA1BXY** is net control.

## CLUB DETAILS

*GPS Coordinates:*

**Lat. N 41° 36.795' Long. W 070° 56.550'**

*Maidenhead Grid Coordinates: FN41mo*

— o —

*For FISTS Sprints: FISTS #10555*

## WORD TO THE WISE

**Z**ero beat - As the two signals approach the same frequency, you will hear a beat tone that represents the difference between the signals. When the signals are on the same frequency, there is "zero beat". This is important in contesting on a crowded or noisy band when the CQing stations may be using very narrow filters. You may need to be within 100 Hz of the transmitted signal to be heard! Forgetting to clear the RIT setting between QSOs can be a problem, too.

Setting your logging software to send the "RIT Clear" command after every QSO is one way to help out. (Thanks, Tree N6TR)

*The ARRL Contest Update - February 4, 2009*

# Business Meeting Minutes



**March 5, 2009**

Club President, Louis (W1CH) called the meeting to order at 7:09 PM with the salute to the flag.

Roll was called with 23 members present.

**SECRETARY'S REPORT** — The February minutes were read by Marcel (W1MLD) as posted on the bulletin board and printed in *ZERO BEAT*. A motion was made and seconded to accept the minutes as read. Passed unanimously.

**TREASURER'S REPORT** — Mike (KB1NB) reported that the balance total was \$14,725. A bill received from the Attorney was paid in the amount of \$2,500. The Attorney has been negotiating with Frank Corp. on payment terms for work performed.

The check for the tower was received and also the tax money was received for the tower's portion. This money is not included in the total.

A motion was made to refer to audit, seconded and voted unanimously.

## REPORTS OF COMMITTEE'S

**Technical Committee** — Dave (W1DJG) reported that everything appears normal nothing has been done due to lack of time.

The 900 MHz system is being worked on. The committee has word of some equipment and is being looked into.

**SKYWARN / ARES** — Two emergency coordinators have been appointed by Rob (KD1CY). More information on the ARRL website. At [ares.ema.arrl.org](http://ares.ema.arrl.org) and also on [ema.arrl.org](http://ema.arrl.org).

The ARRL Club Coordinator has a good presentation on Club growth and may be something we may want to look into. An ARES area Coordinator is being looked into for this area and Rob has someone in mind.

**RADIO COMMITTEE** — Club radio's are available. Bob (K1KVV) said he would be glad to come to the club and watch over anyone interested. The Boy Scouts now have new rules for their merit badge requirements.

John (W1LSH) noted the there are several nets that are available and we should participate. The 2 meter net at 7:00 PM is getting very slow, so try to join in. The 6 meter net on Wednesday night 8:30 PM on 50.2 MHz. The 10 meter net on 28.490 MHz

on Tuesday at 8:30 PM. Try to join in. It would be interesting.

**REPEATER COMMITTEE** — The time will be adjusted on Saturday after Dave gets the information from Rick (W1RJ).

**WEBSITE** — Tim (N1TI) reports that he still has a lot of work to do on the background of the website. Everyone is pleased with what is done this far. Membership database is being worked on along with other items.

**NEW BUSINESS** — A question was asked about plowing the driveway. Responsibility is with the tower owner.

A question was asked about the hot dog machine, should we get rid of it? The machine is not used. A motion was made by Armand (W1BUG) and seconded by John (W1LSH). The motion was voted unanimously after a short discussion. Several members will look into the value of the machine.

Eric (N1WCO) made a motion to put the phone patch back on the repeater. The motion was seconded. There was some discussion about past problems, both jamming and telephone. There is an extra pair to connect that feature. The motion was voted unanimously.

Tim (N1TI) suggested that with summer coming we should look into the contents of the trailer because it is getting filled with junk. Should be put up for auction.

**GOOD OF THE CLUB** — Several scanner feeds have been added in the area. Chris (W1EAV) has one and you can go to it by [www.qrz.com/W1EAV](http://www.qrz.com/W1EAV) and you should be able to get it.

Bob (K1KVV) announced that he has expanded the repeater list and IRLP/Echolink. Send him an email for your node if it's hosted by a member. This should be active 24/7 link.

Motion to adjourn meeting at 7:47PM, seconded and voted unanimously.

Respectfully submitted,

*Marcel, W1MLD*

## 50/50 RAFFLE

Won by Matt (KB1OSV): \$17.00/ \$17.00

# SEMARA News

## BOARD OF DIRECTORS MEETING

January 31, 2009

The meeting was called to order at 9:45 AM with 7 members present and 1 former member.

Those present were, Louis W1CH, Bob K1KVV, Mike KB1NB, Dave K1JGV, Dave W1DJG, Dick K1AHA, Marcel W1MLD, and Gerry W1AFD.

### TREASURER'S REPORT

The Treasurer reports that we have a total of \$18652.31 in all accounts. The BOD audited the amount and was found to be correct.

The treasurer also reported that the litigation with Frank Corp has been settled at \$37,000.00. We have proposed to an initial payment of \$5,000.00 and \$650.00 per month until paid. The BOD approved these amounts if Frank Corp agrees. The BOD also approved up to \$10,000.00 initial payment if Frank Corp does not accept the original offer.

The BOD approved \$2,500.00 for Attorney retainer fee. This will be brought to the membership for approval at the next meeting.

The treasurer sent a letter to Mrs. Lariviere for her donation of the radios to SEMARA.

The BOD discussed the \$10.00 assessment fee. We discussed the method of notifying the member so that we could collect the fee quickly.

### DISCUSSION

The BOD discussed the need to have a backup Webmaster who can access the Website when the Webmaster is not available.

Discussion was also had on the updating of the member list. The announcements will be sent to all members with no exceptions. Some members had opted out in the past.

Meeting adjourned at 10:50 AM.

Respectfully Submitted,

*Marcel Dumont, W1MLD*



## NEW RADIO MERIT BADGE

As they pertain to Amateur Radio, the new requirements for the 2009 Radio merit badge are:

1. Explain what radio is. Then discuss the following:

- The differences between broadcast radio and hobby radio.
- The differences between broadcasting and two-way communications.
- Radio call signs and how they are used in broadcast radio and amateur radio
- The phonetic alphabet and how it is used to communicate clearly.

2. Do the following:

- Sketch a diagram showing how radio waves travel locally and around the world. Explain how the broadcast radio stations, WWV and WWVH can be used to help determine what you will hear when you listen to a shortwave radio.
- Explain the difference between a DX and a local station. Discuss what the Federal Communications Commission (FCC) does and how it is different from the International Telecommunication Union.

3. Do the following:

- Draw a chart of the electromagnetic spectrum covering 100 kilohertz (kHz) to 1000 megahertz (MHz).
- Label the MF, HF, VHF, UHF, and microwave portions of the spectrum on your diagram.
- Locate on your chart at least eight radio services such as AM and FM commercial broadcast, citizens band (CB), television, amateur radio (at least four amateur radio bands), and public service (police and fire).

4. Explain how radio waves carry information. Include in your explanation: transceiver, transmitter, amplifier, and antenna.

5. Do the following:

- Explain the differences between a block diagram and a schematic diagram.

*(Continued on page 6)*

# More SEMARA News

(Continued from page 5)

- Draw a block diagram for a radio station that includes a transceiver, amplifier, microphone, antenna, and feed line.
- Explain the differences between an open circuit, a closed circuit and a short circuit.
- Draw eight schematic symbols. Explain what three of the represented parts do. Find three electrical components to match to three of these symbols.

6. Explain the safety precautions for working with radio gear, including the concept of grounding for direct current circuits, power outlets, and antenna systems.

7. Visit a radio installation (an amateur radio station, broadcast station, or public communications center, for example) approved in advance by your counselor. Discuss what types of equipment you saw in use, how it was used, what types of licenses are required to operate and maintain the equipment, and the purpose of the station.

8. Find out about three career opportunities in radio. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

## 9. AMATEUR RADIO

- Tell why the FCC has an amateur radio service. Describe some of the activities that amateur radio operators can do on the air, once they have earned an amateur radio license.
- Using proper call signs, Q signals, and abbreviations, carry on a 10 minute real or simulated radio contact using voice, Morse Code, or digital mode. (Licensed amateur radio operators may substitute five QSL cards as evidence of contacts with amateur radio operators from at least three different call districts.) Properly log the real or simulated ham radio contact and record the signal report.
- Explain at least five Q signals or amateur radio terms you hear while listening.
- Explain some of the differences between the Technician, General, and Extra Class license requirements and privileges. Explain who ad-

## RE-GRADING PERMIT

**O**n the SEMARA bulletin board is the actual permit for the re-grading work that was approved at the October business meeting. With this in hand, I hope I can get the work done in late April or early May.

73 de Dave-KIJGV

ministers amateur radio exams.

- Explain how you would make an emergency call on voice or Morse code.
- Explain the differences between handheld transceivers and home "base" transceivers. Explain the uses of mobile amateur radio transceivers and amateur radio repeaters.

**A**RRL Rocky Mountain Division Director and Chairman of the League's ad hoc Scouting Committee, **Brian Milesosky-N5ZGT**, called the Radio Merit Badge *"a perfect avenue to introduce Scouts and Scouters to the wonderful world of ham radio."*

*"Ham clubs across the nation should locate a local Boy Scout Troop, secure permission from their Scoutmaster and/or committee to teach the merit badge and deliver an exceptional Radio merit badge class. What the boys—and their leaders and parents—will learn in the process is a fair amount of what is part of the Technician license exam."*

*"The next logical step after a merit badge class is an all-out recruiting effort to get that Troop involved in Amateur Radio. They'll meet new friends and have a great way of communicating while in transit to and from the field, as well as additional peace of mind through an effective means of emergency communications while in the backcountry."*

[Sounds like an opportunity to me! ~editor]

## WorldRadio Online\_

Be sure to check out the free online magazine with loads of practical stuff each month. Just go to <http://www.cq-amateur-radio.com/WorldRadio.html>.

## VE SESSIONS

*Walk-ins permitted unless otherwise noted.*

<http://www.arrl.org/arrlivec/examsearch.phtml>

**SEMARA** – 10:30AM **Apr 4th**

Larry Houbre-AA1FS  
[LRHguy@earthlink.net](mailto:LRHguy@earthlink.net)  
 508-991-6055

**Canton, MA** – 7:30PM **Mar 19th**

Louis D Harris-N1UEC  
[N1UEC@n1uec.org](mailto:N1UEC@n1uec.org)  
 508-668-0858

**Slatersville, RI** – 9:00AM **Mar 28th**

Robert Jones-WB1P  
[WB1P@arrl.net](mailto:WB1P@arrl.net)  
 401-333-4787

**Falmouth, MA** – 9:00AM **Mar 14th**

W. Ben Fleck-K2LYE  
[BenFleck@cape.com](mailto:BenFleck@cape.com)  
 508-540-2583

**N. Smithfield, RI** – 7:00PM **Mar 11th**

Robert Beudet-W1YRC  
[W1YRC@arrl.org](mailto:W1YRC@arrl.org)  
 401-333-21290

**Providence, RI** – 7:00PM **Mar 12th**

Louis Mester-W1CH  
[W1CH@arrl.net](mailto:W1CH@arrl.net)  
 401-263-6045

## COMING FLEAS & FESTS

<http://www.arrl.org/hamfests.html>

**14 Mar Flea Market** **Rockport, MA**  
 Cape Ann ARA Dick—508-269-4941

**21 Mar Hamfest** **Pomfret, CT**  
 Eastern CT ARA Paul—860-928-2456

**22 Mar 26th Ann. Flea** **Southington, CT**  
 Southington ARACHet—860-628-9346

**28 Mar Hamfest** **Middletown, NY**  
 OCARC Donald—845-342-2056

**28 Mar ME Conv** **Lewiston, ME**  
 AARC Cory—207-514-0202

**29 Mar Framingham Flea** **Framingham, MA**  
 FARA Bev—508-626-2012

## ALL-OF-THE-TIME ACITIVITIES

### BUSINESS MEETING:

7 PM FIRST THURSDAY OF THE MONTH

### SUNDAY RAGCHEW

AT THE CLUBHOUSE:

7-11 AM SUN

## MOST-OF-THE-TIME ACTIVITIES

\*EARLY BIRD BREAKFAST: 6 AM TU & TH  
*West End Grill*

1000 Rockdale Avenue, New Bedford

\*CLUB COFFEE MEET: 1 PM WEEKDAYS  
*Boston Coffee & Bagel*

122 Allen Street (corner of Dartmouth Street)  
 New Bedford

\* Call first on repeater to see who's coming

LUNCHEON: 11:30 AM FRIDAYS

**Meet at the clubhouse at 11:15 AM**

Each week we decide which local restaurant is to have the honor of our presence.

## SOME CONTESTS

<http://www.arrl.org/contests/>

**Heavy Metal Rally** Mar 14 0000Z - Mar 15 2359Z  
*phone+CW* [www.xelrcq.org](http://www.xelrcq.org)

**RSGB Commonwealth Contest** Mar 14 1000Z -  
 Mar 15 1000Z *CW* [www.rsghfcc.org](http://www.rsghfcc.org)

**AGCW QRP Contest** Mar 14 1400Z - Mar 14  
 2000Z *CW* [www.agcw.org](http://www.agcw.org)

**EA PSK31 Contest** Mar 14 1600Z - Mar 15 1600Z  
*digital* [www.ure.es](http://www.ure.es)

**Idaho QSO Party** Mar 14 1900Z - Mar 15 1900Z  
*phone+CW+digital* [www.nx7tt.com](http://www.nx7tt.com)

**North American RTTY Sprint** Mar 15 0000Z -  
 Mar 15 0400Z *digital* [www.ncjweb.com](http://www.ncjweb.com)

**Wisconsin QSO Party** Mar 15 1800Z - Mar 16  
 0100Z *phone+CW+digital* [www.warac.org](http://www.warac.org)

**10-10 Mobile QSO Party** Mar 21 0001Z - Mar 21  
 2359Z *phone+CW+digital* [www.ten-ten.org](http://www.ten-ten.org)

**Oklahoma QSO Party** Mar 21 1400Z - Mar 22  
 2000Z *phone+CW+digital* [www.okdxa.org](http://www.okdxa.org)

**North Dakota QSO Party** Mar 21 1700Z - Mar 22  
 0100Z *phone+CW* [k0ln.com](http://k0ln.com)

**Virginia QSO Party** Mar 21 1800Z - Mar 23  
 0100Z *phone+CW+digital* [www.qsl.net/  
 sterling/VA\\_QSO\\_Party](http://www.qsl.net/sterling/VA_QSO_Party)

## LOCAL REPEATER DIRECTORY

See <http://www.semara.org/repeaters.htm>

### Frequency CTCSS Call/IRLP/E-link Location 144 (within 35 miles of SEMARA)

145.110 -	67.0	KB1BWN	New Bedford
145.130 -	151.4	WF1A	W Greenwich, RI
145.150 -	123.0	WA1DGW	Fall River
145.450	100.0	W1SYE	Portsmouth, RI
145.490 -	67.01	W1SMA/4617/4611	Fairhaven
146.655 -	88.5	WA1GPO	Falmouth
146.685 -	82.5	N1ZIZ	Plymouth
146.700 -		K1CR	Cranston, RI
146.730 -	67.0	W1SGL	Sandwich
146.760 -		W1HQV	Scituate, RI
146.805 -	67.0	NN1D	Fall River
146.835 -	192.8	WA1QCA	Johnston, RI
146.880 -	100.0	WC1R	Newport, RI
146.940 -	67.0	K1KYI	Cumberland, RI
146.955 -	88.5	K1PBO/—/20024	Dennis
<b>147.000+ SEMARA 67.0</b>		<b>W1AEC/4347/44347 Dartmouth</b>	
147.045+	141.3	W1HDN	W Warwick, RI
147.120+	173.8	K1WEW	Portsmouth, RI
147.135+	67.0	KA1GG	Taunton
147.165+	67.0	WA1HAH	Exeter, RI
147.180+	67.0	W1MV/—/64231	Bridgewater
147.195+	127.3	K1SMH	Attleboro
147.315+	67.0	WG1U/—363590	Plymouth
147.330+	131.82	W1AQ/4907/147330	E Prov., RI
147.345+	88.5	KB1QL/—/402289	W Tisbury
147.375+	110.9	N1YHS	Falmouth

### 222

223.760 -		K1KYI	Scituate, RI
223.780 -	88.5	N1PYN	Brockton
223.820 -	67.0	N1JBC	Newport, RI
223.900 -		KA1ABI	Coventry, RI
223.920 -		KA1LMX	Warwick, RI
223.960 -	127.3	KA1RCI	Johnston, RI
223.980 -		W1OP	Johnston, RI
224.040 -	67.0	KA1RCI	Lincoln, RI
224.060 -	103.5	N1ZZN	Norwell
224.200 -	100.0	KA1MYV	Lincoln, RI
224.320 -	118.8	W1ZSA	Walpole
224.400 -	103.5	N1KUG /4133/94940	Quincy
224.560 -	100.0	KA1NXS	Exeter, RI
224.620 -	88.5	N1TVZ	Attleboro
224.660 -		W1KG	Medway
224.760 -		KA1SOO	W Warwick, RI
224.920 -	67.0	N1JBC	N Prov., RI
224.960 -	88.5	W1VET	Warwick, RI

Check <http://www.nerepeaters.com/se.htm#222>

### ANSWER: HAMMIN' AROUND

Which of the following conditions require an amateur radio station to take specific steps to avoid harmful interference to other users or facilities? D. All of these answers are correct

### Frequency CTCSS Call/IRLP Location 440 (within 25 miles of SEMARA)

441.400+	192.8	WG1U	Assonet
441.750+	192.8	W1AQ	E Prov., RI
442.550+	67.0	WG1U	Assonet
443.150+	94.8	K1CW	Bristol, RI
444.350+	88.5	W1ACT	Fall River
<b>Frequency CTCSS Call Location</b>			
446.375 -	67.0	KA1RCI	Little Compton, RI
447.225 -	88.5	WP4US	Taunton
447.525 -	88.5	WA1TAQ	Portsmouth, RI
448.325 -	186.2	KC2GDF	Newport, RI
449.525 -		NN1D	Fall River

Check <http://www.nerepeaters.com/se.htm#440>

### 902

921.2000 (-12MHz)		KA1RCI	Prov., RI
921.7000 (-12 MHz)		W1OP	Johnston, RI
927.4125	67.0	N1OTY	Plymouth
927.4250	131.8	W1WCF	Bridgewater
927.4500	D031	WG1U	Abington
927.4625	103.5	WG1U	Assonet
927.4750	131.8	N1ZZN/4571 <sup>1</sup>	Marshfield
927.4875	131.8	N1UEC/4486 <sup>1</sup>	Wrentham
927.6125	131.8	KA1RCI <sup>2 3</sup>	Lincoln, RI
927.6250	131.8	W1EHT <sup>3</sup>	Pembroke
927.6500	D031	W1SMA	Dartmouth
927.6875	131.8	KA1DTA	Taunton
927.7125	131.8	KB1HTO <sup>3</sup>	Norton
927.7625	67.0	KA1EZH	N. Prov., RI
927.7875	127.3	N1SEC	N. Attleborough
927.8250	131.8	N1JFU <sup>3</sup>	Hingham
927.8625	D031	NN1D/4004	Fall River

<sup>1</sup> NEAR-900 Net    <sup>2</sup> OFF    <sup>3</sup> Transmits 100.0 Hz tone

Check <http://www.nerepeaters.com/se.htm#902>



### ANSWER: SUDOKU

Word: Condoning

G	P	D	O	X	N	I	C	K
O	N	C	D	K	I	P	X	G
X	K	I	C	P	G	O	N	D
K	I	G	N	C	P	X	D	O
D	X	N	G	O	K	C	P	I
C	O	P	X	I	D	G	K	N
I	C	X	K	D	O	N	G	P
P	G	K	I	N	C	D	O	X
N	D	O	P	G	X	K	I	C