



ZERO BEAT

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



Since 1932

Volume 46 Issue 2

SEMARA-W1AEC

February 2010

Hams & Haiti*

Almost three weeks after the devastating magnitude 7.3 earthquake hit Haiti, ham operators are still connecting rescuers within the country and with the outside world. Now they have switched gears from rescue mode to recovery mode.

This has been a most challenging disaster response effort. In part, the difficulty has been a lack of ham operators in Haiti. Ham operators are now hard at work establishing communications to aid workers set up camp and distribute food, water, medical supplies, and other aid to survivors.

In Haiti, some of the earliest information about the severity of the earthquake was coming out from ham radio operators.

The difference in Haiti, however, is twofold. First, the communication infrastructure, while heavily damaged, was still functioning at times. It wasn't totally destroyed. Which leads to the other difference in Haiti. The country is home to very few ham operators in the first place. Though there are around 100 to 120 ham licenses active for Haiti, only about seven or eight operators were actually in Haiti as far as the ARRL can determine. Most of the operators who have Haitian licenses aren't even Haitian but



ARRL HAM AID PACKS

rather missionaries and aid workers who travel in and out of the country.

The ARRL sent a programmed Yaesu VHF repeater with a microphone, as well as ICOM handheld transceivers, Yaesu mobile 2 meter rigs with power supplies and Kenwood mobile 2 meter rigs. Comet antennas, Larsen mobile antennas with magnet mounts, coax and batteries were also included.

To help out, hams from the neighboring Dominican Republic traveled into Haiti to set up equipment, despite being attacked by looters. They set up a 2-meter analog repeater high on a mountain close to the Haiti-Dominican Republic border. The repeater takes in weak signals and rebroadcasts those signals on a different frequency and at a higher power.

Dominican operators installed a second repeater near the airport in Port-au-Prince and were expecting a third to arrive from ARRL shortly, which they will likely put in the region southeast of the capital.

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* Adapted from: <http://spectrum.ieee.org/telecom/wireless/hams-in-haiti>

ZERO BEAT

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Chuck Moszczanski—KB1FRL

Alan Dulong—WB1FQP

Joe Krisnowsky—N1IXC

Technical/Repeater/Website

Dave Goldstein—W1DJG: Tech

Rick Cabral—W1RJC: Repeater

Ben Jackson—N1WBV: Web

SPECIAL COMMITTEES*Activities*

Scott Szala—W1EV

ARES/SKYWARN

Rob Macedo—KD1CY

QSL Manager

vacant

Radio Events

Bob Kelley—K1KVV

Tech Talk

Eric Pierce—N1WCO

It seems to me ...de Bob - K1KVV <editor@semara.org>

Where there is a problem, there is an opportunity. Here are two comments about the Haitian crisis:

1. It is way past time to move HF radio beyond SSB voice to automated digital transmission, with gateways to wired networks. There's no other radio service that continues to demand trained operators of end-user equipment; why should HF be any different, particularly now that there are good channel-estimation and selective-calling standards already well-established? ARRL should start having this conversation with the DoD MARS program, DHS, and the Civil Air Patrol. What's needed here is sufficient investment in time (and money as required) to provide open standards that folks can build to in this arena.
2. Ham Radio does not demand anything of anyone, but allows them to use the airwaves in a variety of ways including SSB and digital links as well as PSK, FSK, CW and more. My opinion is that Haiti is very poor and it is difficult for people to come up with the money for even a CW rig much less the fancy setup you talked about. You should be happy that there even are some who have gone to the trouble and personal expense of doing this. Furthermore, if you didn't notice, all the wired networks in Haiti are DOWN which would disable them. There are times where the simplest method is the best method and during natural disasters that definitely applies to radio communications. You'll notice that hams in Haiti provided the earliest communications to areas outside of Haiti. If money were to be thrown at the problem of disaster communications in Haiti, you might start a fund to equip more people in Haiti with good simple rugged HF stations and the minimal training required to get a license to use them. 73 Don AF6ND.

So what can be done to be better prepared for the next disaster? Let's start by having more than a dozen licensed hams in country. It pays to be able to communicate using rudimentary means. For me, that means knowing how to lash up a CW transmitter and send acceptable signals with just two bare wires. Can you see some other communications mode that might be reduced to a simple chip that would serve the same purpose? What would you recommend?

POINT TO PONDER

“Adventure is not outside a man; it is within.”

—David Grayson

HAMMIN' AROUND

Question* E4E11 What is the most likely cause if you are hearing combinations of local AM broadcast signals inside one or more of the MF or HF ham bands?

- A. The broadcast station is transmitting an over-modulated signal
- B. Nearby corroded metal joints are mixing and re-radiating the BC signals
- C. You are receiving sky-wave signals from a distant station
- D. Your station receiver IF amplifier stage is defective

* 2008 Element 4 Extra Class Question Pool (good thru 2012-06-30)

Answer on page 8

Club Notes

Yes, winter will be with us officially for six more weeks. While most of us may look forward to the longer days and warmer temperatures, not everyone is wishing their life away.



Who? Well for starters, there are those who like the lower noise levels associated with the cooler months. I hear that both 160- and 75-m might benefit from that.

Have you noticed that the sunspot numbers are slowly climbing. The numbers rose to more than 28 points. The predicted solar flux for January 28-31 is 78, 80 on February 1-2, 82 on February 3-4 and 88-89 for the following six days. For more information concerning radio propagation, visit the ARRL Technical Information Service Propagation page: <http://www.arrl.org/tis/info/propagation.html>.



Did someone say “Ham Radio Classes?” Well, what kind of class do you want? If you’re looking to pass the Technician examination, you have only until June 30, 2010 before the question pool changes. So interested in passing this one? Just show up on Tech Talk evening (3rd Thursday of the month, Feb.18 is the next one). Bring your questions and together we can figure out the answers.



I have heard lots of comments about upgrading, so here is your opportunity. Just study the material (read it once through and take notes on each Q&A, test yourself by going through the questions for each section in reverse order.)



The same goes for the General and Extra exams, except their question pools are good until 2011 and 2012, respectively.

NEXT SEMARA VE SESSION
February 6, 2009
Clubhouse @ 10:30 AM
 Contact: Larry Houbre-AA1FS
LRHguy@earthlink.net
 508-991-6055

LOCAL NETS

Everyone is welcome to check in!

147.000+ (PL 67.0 Hz) (FM) — “Camel” Net Roundtable is held almost *every evening* at 7 p.m. on the SEMARA Repeater, **W1AEC**. **Bob, N1VUG** (Fairhaven) usually opens the net.

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.

Club Numbers
 GPS Coordinates:
Lat. N 41° 36.795’ Long. W 070° 56.550’
 Maidenhead Grid Coordinates: **FN41mo**
 For FISTS Sprints: **FISTS #10555**

Sudoku

Here’s a curiously, symmetric Sudoku puzzle to ponder while waiting on net. (See **page 8** for the solution.)

8			5	4	3			
		6		1		7		
				7		1		
	2	5						9
1		7	9	6	5	2		8
9						5	7	
		8		2				
		2		9		8		
			8	5	7			3

Official Meeting Minutes



January 7, 2010

The meeting was called to order by our President **Louie (W1CH)** at 7:11 PM with the salute to the Flag. Roll was called with 18 members present.

SECRETARY'S REPORT

A motion was made by **Joe (N1IXC)** to suspend the reading and accept as posted on the Bulletin board and in the **ZERO BEAT**. The motion was seconded and voted unanimously by the members.

TREASURER'S REPORT

The treasurer **Mike (KB1NB)** reported that the treasury now has a total of \$11,237.09. The several major bills for the month were State and Federal taxes, and the oil spill. The total does not include the last tower check which was recently received.

The Attorney still has \$767.00 in his account. The decision has not come down from the Judge so we are still waiting for the results.

A motion was made and seconded to refer the report to audit. The members voted unanimously.

COMMITTEE REPORTS

Scholarship Committee

Will bring proposal up under Old Business.

Technical Committee

Rick (W1RJC) reported that we need a Chairman for the Tech Committee.

ARES/SKYWARN Committee

Rob (KD1CY) reported that an Emergency Communications Workshop will be held on Saturday January 23, 2010 in Middleboro.

The results of testing the repeater during the RACES test is that it worked well and the decision will be made by the RACES people and the State.

Buildings and Grounds

The President read a letter from **Dave (K1JGV)**. The letter read in part that there would not be any further reports during the winter and will resume in the spring. We should keep in mind the need to paint the trim in the spring. **Marty (KA1YFV)** will continue to take care of the interior and Dave will resume operations on the outside.

At this time the President held a Moment of Silence for Ed Rovas (WA1VXY-SK)

Radio Committee

Bob (K1KVV) reported that if you're new to contesting, look into the North American QSO party

which is in two parts; the first week is for CW and the next is for phone.

Repeater and Website

Rick (W1RJC) reported that he and Ben are working on the Website to make it more user friendly and that members will be able to access and contribute.

The repeater needs to have the squelch board replaced because it's been defective for about a year now. The cost is about \$50.00 and should come under normal monthly maintenance costs. The 900 MHz repeater will be worked on and the IRLP board added, which has already been purchased. We need to purchase a repeater controller for this repeater to add the IRLP board. We can sell the old 440 MHz repeater and controller to obtain money for the new controller.

OLD BUSINESS

Sonny (K1USW) reported that some of the proposal changes the Scholarship Committee made to the requirements are that you don't need an amateur license to apply but you would have preference if you did. The \$100 scholarship amount was low and should be at least \$500. The applicant will have to write a 600 word essay and would have to come to a meeting and read it to obtain the check. After considerable discussion, a motion was made and seconded to accept the proposal. The members voted unanimously to accept.

NEW BUSINESS

The President read the minutes of the BOD's meeting (see page 6). A motion was made to act on the portion that dealt with members in arrears. If the member has not paid the assessment in proper time the member would lose privileges. Those would be no access to the clubhouse, no free refreshments, cannot be on a Committee, and no voting privilege. These would be for members 'not in good standing.' The motion was seconded after considerable discussion. The members voted unanimously.

A motion was made to review the membership classifications as to 'in good standing,' 'in arrears,' etc.

The Constitution and By-Laws should be reviewed. Anyone interested please advise the President.

(Continued on page 6)

SEMARA News

The Older Ham*

By Gerd Schrick, WB8IFM (78)

This article is abstracted from the January, 2010 *RF Carrier*, the newsletter of the Dayton Amateur Radio Association.

Like the rest of the population, Hams are getting older these days as well. We have presently three Hams in our area that have more than 75 years of Hamming behind them. All are in their 90s, and they still are interested in Ham Radio, but they need help with their equipment and in particular with the antennas. [Sound familiar?]

This article highlight some problems that Hams run into when they pass the 70-year mark. At that point they still have about 10 years where they can do things on their own. The hardest part for this age group is to get adjusted to their ever-decreasing faculties. But if you asked me what is the biggest problem: it is not eyesight, hearing, reduced muscle strength, a weak heart or a failing memory, although these are all serious problems, rather it is *the younger folks' poor understanding of the "old people"*.

Eyesight is normally not much of a problem with most people getting their eye lenses replaced with plastic ones (cataract surgery). Where the problem comes in is when fancy but poorly readable fonts and color combinations are used for printed communication. [A hint for our website design?]

Sound is of the utmost importance for communications and for the Hams. Morse is fine for those who are familiar with it. Normal hearing loss is usually just limited to the high frequencies and can be easily corrected. However, in communication we learn: if you cut off the high frequencies in order to restore readability you should reduce the low frequencies as well and exactly that is routinely done by the telephone people and Ham operators.

The accepted (reduced) pass band runs from 300 to 3000 Hz. This limitation is required because of the limited bandwidth technically available but as a side effect it leads to better readability also. Cell phones go to the extreme in that they add digital processing which enhances comprehension even further. I know several older Hams that have switched to cell phones for that reason.

The car radio handles the bandwidth adjustment easily. There are plainly labeled bass and treble controls: you turn bass all the way OFF and treble

all the way ON. Leave it there! Add a drop of 'super glue' if younger folks borrow grandpa's car. All the Ham gear usually does a good job with the audio and there are additionally DSP boxes that help if you are willing to fiddle with a few more knobs.

Of course, the hearing aid industry offers you "high tech" high price solutions that mostly do poorly for the simple reason that their design does not address related problems that older people have to cope with. They assume the volume needs to be cranked up and people want to hide the hearing aid in their ears. What happens is that the increased volume doesn't help and the buds fit poorly and fall out. They also get easily misplaced or lost. Then there are the batteries. They need to be replaced too often, which poses an additional problem for the older forgetful person.

Here is what I suggest: use a simple belt clip type amplifier adjusted like the above car radio and clip an electronic (PC-type) mike to your lapel. A lot of people run around with cell phones, mp3-players or other electronics on their body. So that should not put a cramp in your lifestyle. I've been walking around with my cell phone like that!

A plus for radio communication is that Hams know the procedures for wireless, know how to do simplex and know how to speak clearly and spell difficult words or names phonetically. I know a few Hams that have "radio voices;" if you hear them, you know what I mean. At a DARA meeting some time ago, the mike was passed around for everybody to introduce himself. One Ham had every head turned! This guy had a radio voice. His voice would still be readable under very adverse conditions.

With the bass all the way off and treble all the way on, the sound is real tinny, an indication that the mid-range is lacking. I change the bass to 20% instead of zero and the sound improves, but there is no contest to the quality of the car radio.

There is a simple way to improve the sound for voice without any electronics involved. Try this simple experiment: Form a cup with one hand and place it behind your ear. This acts like a dish amplifying the audio signals coming from the front and it does so preferring the all-important higher frequencies. This is because the size of your hand compared to the wavelength of sound. One, 2 and 3 kHz correspond to 12, 6 and 3 inches respectively.

(Continued on page 6)

More SEMARA News

BOARD OF DIRECTORS

Meeting Minutes

December 19, 2009

The Vice-President (**Bob, K1KVV**) called the meeting to order at 10:25 AM in the absence of the President.

Those present were **Bob (K1KVV)**-VP, **Marcel (W1MLD)**-Secretary, 2009 Directors: **Dave (K1JGV)**, **Dave (W1DJG)**, **Dick (K1AHA)**, and 2010 Directors: **Joe (N1IXC)**, **Brad (W1BEP)**, **John WA1LSH**.

OLD BUSINESS

The Vice-President reviewed the subjects that we should talk about and in the order noted.

1. Members in arrears.

Member privileges if in arrears

No freebies, cannot be on a committee, lose key fob, no voting.

All of this until paid in full.

The club should not be financed by only a few and others have the same privileges without supporting the club.

2. Handicap access.

Bathrooms should be first. We should make one bathroom out of the present two and make it handicap accessible.

3. Outside ramp.

Do this after bathroom is ready.

4. Log Periodic antenna.

Repair this spring

5. Dues.

We should establish a committee to review the Constitution and By-Laws.

We should look into making classes of membership.

Meeting adjourned at 11:15 AM.

Respectfully submitted, Marcel (W1MLD)

(Continued from page 4)

Good of the club

Rob (KD1CY) suggested that we send a letter to the RACES people showing our willingness for them to use our repeater. Rob will write and turn over to **Bob (K1KVV)** for signature. Rob will carry it to the RACES people.

A motion was made to continue allotments for Committee's and refreshments, the motion was seconded and voted unanimously.

Adjournment

A motion was made to adjourn, the motion was seconded and voted unanimously.

Respectfully submitted,

Marcel (W1MLD)

(Continued from page 5)

Suddenly you understand the person clearly.

The worst problems an old person confronts are the weaker muscles and bones. I first found out when I could barely loosen the bolts on my car's wheels and when I couldn't tighten the bolts enough on my rotator so they wouldn't come loose.

I hope reading my comments and observations will lead you to look with more knowledge and sympathy to the older ham. You will all get there eventually.



*Courage Center Handiham World Weekly E-Letter for the week of Wednesday, 27 January 2010

Exposed Solder Joints*

Why do solder joints exposed to the weather eventually fall apart? Dave, AB7E has the answer. "The lead in lead-tin solder will react with moisture to form a white crumbly oxide. Exposed to the elements, the entire joint will eventually become porous and brittle. That's why plumbing solder is lead-free, and that is what I use (otherwise unprotected) for all my outdoor solder connections."

*The ARRL Contest Update for January 6, 2010

Editor: **Ward Silver, NØAX**

VE SESSIONS

Walk-ins permitted unless otherwise noted.

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

SEMARA – 10:30AM Feb 6th

Larry Houbre-AA1FS
LRHguy@earthlink.net
 508-991-6055

Braintree, MA – 9:00AM —
 William Needham-K1WN
K1WN@aol.com
 781-845-4400

Canton MA – 7:30PM —
 Louis Harris-N1UEC
N1UEC@n1uec.org
 508-333-5714

Cranston, RI – 9:00AM Feb 27th
 Kenneth Carr-KB1AWV
KB1AWV@yahoo.com
 401-828-1665

Falmouth, MA – 9:00AM —
 W. Ben Fleck-K2LYE
BenFleck@cape.com
 508-540-2583

Fall River, MA – 7:00PM Feb 15th
 Skip Denauly-KB1CNB
skip@newtestamentschool.org
 774-644-3469

Middletown, RI – 9:00AM Feb 13th
 Jack Garforth-K1IG
K1IG@verizon.net
 401-683-2250

Providence, RI – 7:00PM —
 Louis Mester-W1CH
W1CH@arrl.net
 401-263-6045

Slatersville, RI – 9:00AM —
 Robert E. Jones-WB1P
WB1P@arrl.net
 401-333-4787

Coming FLEAS & FESTS

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

6 Feb	Chelsea ME Bill 207 623 9075	27 Feb	Colchester VT Mitch 802 879 6589
13 Feb	Marlboro MA Tim 978 333 1329	28 Feb	Hicksville NY Richard 516 694 4937

Some Contests

This listing is of “sprints” that last only 2 to 6 hours.

For other contests, see

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

3.5-14 North American Sprint CW
www.ncjweb.com Feb 7 0000Z - Feb 7
 0400Z

3.5-28 QRP Winter Fireside SSB Sprint
 Phone www.qrparci.org Feb 7 2000Z - Feb
 7 2359Z

1.8-7 Valentine Sprint BPSK31
www.podxs070.com Feb 12 8 PM - Feb 13 2
 AM (local time)

7,14 Asia-Pacific Sprint CW jsfc.org/
apsprint/aprule.txt Feb 13 1100Z - Feb 13
 1300Z

3.5-28 FISTS CW Winter Sprint CW
www.FISTS.org Feb 13 1700Z - Feb 13
 2100Z

1.8 RSGB 1.8 MHz Contest CW
www.rsgbcc.org
 Feb 13 2100Z - Feb 14 0100Z

3.5-14 North American Sprint Phone
www.ncjweb.com Feb 14 0000Z - Feb 14
 0400Z

ALL-OF-THE-TIME ACTIVITIES

AT THE CLUBHOUSE BUSINESS MEETING

7 PM First Thursday of the month

SUNDAY RAGCHEW

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

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.

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

LOCAL REPEATER DIRECTORY

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

Frequency CTCSS Call/IRLP/E-link Location

———— 144 (within 35 miles of SEMARA) ————

Check <http://www.nerepeaters.com/2m.htm>

145.110 -	67.0	NB1MA/4245/4254	New Bedford
145.130 -	151.4	WF1A	W Greenwich, RI
145.150 -	123.0	WA1DGW	Fall River
145.170 -	67.0	KA1RCI	Lincoln, RI
145.190 -	67.0	KA1RCI	Johnston, RI
145.210 -	192.8	N1JL	Coventry, RI
145.280 -		†WG1U	Taunton
145.330 -	94.8	†K1CW	Bristol, RI
145.350 -	100.0	N1BS	W Warwick, RI
145.370 -	67.0	N1JBC	Coventry, RI
145.420 -		†K1RFI	Fall River
145.450 -	100.0	W1SYE	Portsmouth, RI
145.490 -	67.01	W1SMA/4617/4611	Fairhaven
146.625 -	141.3	K1RSR	E Providence, RI
146.655 -	88.5	K1RK	Falmouth
146.685 -	82.5	N1ZIZ	Plymouth
146.700 -		K1CR	Cranston, RI
146.730 -	67.0	W1SGL	E Sandwich
146.775		W1WNS	W Bridgewater
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
146.985 -	67.0	KA1RCI	Exeter, RI
147.000+	67.0	W1AEC/4347/44347	Dartmouth
147.015+	77.0	N1MIX	N Providence, RI
147.045+	141.3	W1HDN	W Warwick, RI
147.075+	67.0	KA1RCI	Portsmouth, RI
147.105+	103.5	W1PHR	Cranston, RI
147.120+	173.8	K1WEW	Portsmouth, RI
147.135+	67.0	KA1GG	Taunton
147.165 +	67.0	N1VDJ	Exeter, RI
147.180+	67.0	W1MV/4388/64231	Bridgewater
147.195+	127.3	K1SMH	Attleboro
147.225 +	67.0	WA1NPO/—/423517	Whitman
147.315+	67.0	WG1U/—/363590	Plymouth
147.330+	131.82	W1AQ/4907/147330	Providence, RI
147.345+	88.5	KB1QL/—/3755	W Tisbury
147.375+	110.9	N1YHS	Falmouth

———— 222 (within 35 miles of SEMARA) ————

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

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
224.300	100.0	K1WYC	W. Warwick, RI
224.560 -	100.0	KA1NXS	Richmond, RI
224.620 -	88.5	N1LEO	Attleboro
224.760 -		KA1SOO	W Warwick, RI

Frequency	CTCSS	Call/IRLP/E-link	Location
224.860 -	67.0	N1JL	Coventry, RI
224.920 -	67.0	N1JBC	N Providence, RI

———— 440 (within 25 miles of SEMARA) ————

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

441.750+	192.8	W1AQ ²	E Providence, RI
442.350	103.5	WG1U	Portsmouth, RI
442.550+	67.0	WG1U	Assonet
443.150+	94.8	K1CW	Bristol, RI
444.350+	88.5	W1ACT ²	Fall River
444.550	88.5	W1MV	Bridgewater
446.375 -	67.0	KA1RCI	Little Compton, RI
447.525 -	88.5	WA1TAQ	Portsmouth, RI
448.325 -	186.2	KC2GDF	Newport, RI
449.275	D244	W1WNS	W Bridgewater
449.525 -		NN1D	Fall River

———— 902 (within 35 miles of SEMARA) ————

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

921.2000 (-12 MHz)		KA1RCI	Providence, RI
921.3000 (-12 MHz)		K1KYI	Lincoln, RI
921.7000 (-12 MHz)		W1OP	Johnston, RI
921.9000 (-12 MHz)		WA1TAQ	Providence, RI
927.0375	D031	†NN1D/4004	Fall River
927.4125	67.0	N1OTY	Plymouth
927.4250	131.8	W1WCF	Bridgewater
927.4625	103.5	WG1U	Assonet
927.5750	D051	N1UMJ	Rehoboth
927.6125	131.8	KA1RCI ³	Lincoln, RI
927.6250	131.8	W1EHT ³	Pembroke
927.6500	D031	W1SMA	Dartmouth
927.6750	D244	N3LEE	Cumberland, RI
927.6875	131.8	KA1DTA	Taunton
927.7125	131.8	KB1HTO ³	Norton
927.7625	67.0	KA1EZH	N Providence, RI
927.7759	D244	K1RJZ/4977 ¹	Boston
927.7875	127.3	N1SEC	N Attleboro
927.8250	131.8	N1JFU/4335 ^{1,3}	Hingham
927.8375	D031	†W1AEC/4347/44347	Dartmouth

¹ NEAR-900 Net ² OFF the air ³Transmits 100.0 Hz tone †TRIAL

Answer: HAMMIN' AROUND

What is the most likely cause if you are hearing combina-
tions of local AM broadcast signals inside one or more of
the MF or HF ham bands? B. Nearby corroded metal joints
are mixing and re-radiating the BC signals.

Answer: Sudoku ¹⁵⁰

3	2	9	7	5	8	6	1	4
7	5	8	1	6	4	2	9	3
1	6	4	9	2	3	8	5	7
9	7	5	2	3	1	4	8	6
8	4	2	5	9	6	7	3	1
6	1	3	4	8	7	5	2	9
5	8	1	6	7	9	3	4	2
4	3	7	8	1	2	9	6	5
2	9	6	3	4	5	1	7	8