



ZERO BEAT

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



Since 1932

Volume 45 Issue 9

SEMARA-W1AEC

September 2009

Summertime @ SEMARA



Ed-WA1ZCB

"AND I COME UP FROM FLORIDA FOR THIS ..."



MARTY-KA1YFV

"IF THIS IS RETIREMENT ..."



"CROP CIRCLE WITHIN CROP CIRCLE ..."

900 MHZ ANYONE?



TONY-NN1D

"SOFTWARE MAKES PROGRAMMING
900 MHZ RIGS EASIER?"

Tony-NN1D spent his Sunday morning at the club helping about ten folks program their 900 MHz rigs.

Want to do it your self? A list of current 900 MHz repeater frequencies and tones is given on page 8.

For now, SEMARA's frequency pair is

Output: 927.8375 MHz

Input: 902.8375 MHz

Tones TBA.

Watch for it to go on the air!

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ZERO BEAT

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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
 vacant
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>



We are well on our way to regaining our former financial equilibrium. We are slowly paying off the cost of the oil spill. Regrading the grounds to assure that water runs off and doesn't pool too much is almost done. The assessment to pay for the latter has yielded about \$1500 so far.

What's next? Well the other shoe is a handicap ramp together with the redo of the side entrance. Our remodeling wouldn't be complete without making our bathroom facilities accessible. So the light at the end of the tunnel is shining brightly.

Continuing on, we will need to rethink the layout of the radio area. Right now it is next to the soon-to-be-accessible side door that has been blocked for the last year or so. A better location for the radios, and all that "noise," is away from the kitchen area. Everyone knows, guests always congregate around the kitchen and the food. Same thing at the club, especially on Sunday mornings. So why not put the radios as far away as possible, at the far end of the hall? Just think about it—it'll grow on you! Got a better idea? Let's hear it.

Changing gears, let's turn our attention to the **SEMARA Scholarship Fund**. The fund was established in 1996. About \$500 in cash donations were made up through 2001; 1% of the net revenue from our cell tower rental is suppose to be set aside for scholarships. By my reckoning, there should be *around \$3,000 available* for a scholarship or two. I have the records kept by **Larry-AA1FS** since the beginning. What is needed at this point is a *committee of three* to begin implementing this long dormant dream of SEMARA. So what say? Will *you* step forward to work on making this dream come true? Let me hear from you.



Don't forget—SEMARA hosts its very own Tailgate Hamfest on Sunday, September 13. Look for me inside the clubhouse—where the food is.

POINT TO PONDER

"So do your work in the world that others may do their work better.

~Felix Adler

HAMMIN' AROUND

Question* E5A12 What is the half-power bandwidth of a parallel resonant circuit that has a resonant frequency of 3.7 MHz and a Q of 118?

- A. 436.6 kHz
- B. 218.3 kHz
- C. 31.4 kHz
- D. 15.7 kHz

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

Answer on page 8

Club Notes

After Labor Day comes the SEMARA Tailgate Hamfest on the following Sunday, Sept. 13th. For the right price, I'd be willing to part with a "Shore Power Unit" (RFS) that changes shore power (120VAC) to boat power (12VDC). You can bring your neat *junque* to sell too.



This year we'll have inside tables and refreshments for all to enjoy. So, tell all your friends and acquaintances to "come on down" and enjoy the fun while making a little spare change along the way.



See you there!

NEXT SEMARA VE SESSION



October 3, 2009
Clubhouse @ 10:30 AM
 Contact: Larry Houbre-AA1FS
LRHguy@earthlink.net
 508-991-6055

Here's a challenging Sudoku puzzle to attack while waiting for the band to open. **Solution is on page 8.**

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

SEMARA 900 MHZ FREQ. PAIR

927.8375 MHz (repeater output)
 902.8375 MHz (repeater input)

LOCAL NETS

Everyone is welcome to check in!

147.000+ (PL 67.0 Hz) (FM) — "Camel" Net Roundtable 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 — SEMARA CW Net. [Mondays at 8:00 p.m. Cancelled because of low **QNI**.]

NEW LIFE MEMBER

At the August 6, 2009 business meeting, voted life membership to:

Marc Dumont—KB1ODE

a General class ham.

Welcome to the club!

SEMARA HAMFEST

It's official, the SEMARA Hamfest will be held on Sunday, September 13th.

Contact **Tim, N1TI** n1ti@arrl.net with your ideas about what you can do to help.

CLUB NUMBERS

GPS Coordinates:

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

Maidenhead Grid Coordinates: FN41mo

For FISTS Sprints: FISTS #10555

Official Meeting Minutes



AUGUST 6, 2009

Due to the fact that the President and Vice-President were not in attendance, the Secretary, **Marcel (W1MLD)** began the meeting at 7:01 PM with the salute to the flag. Roll was called with 17 members present.

Secretary's Report

A motion was made and seconded to accept the report as published in *ZERO BEAT*. This motion was voted unanimously by the members.

Treasurer's Report

The Treasurer, **Mike (KB1NB)** reported that the overall total was \$12,016.84 as of 7/31/2009. The total outflow for July was 2,133.50. A motion was made and seconded to turn the report over to audit. This motion was voted unanimously.

The treasurer also reported that a retainer fee is due for the Attorney and that is \$3,000.00. After some discussion a motion was made and seconded to allow for the retainer. This was voted unanimously by the members.

At this time the Vice-President Bob (K1KVV) took over the meeting.

Standing Committees

Buildings and Grounds—Dave (K1JGV) reported that he met with contractors with regard to the handicap ramp and has obtained several prices. The cost of a ramp that is 34" wide and has no platform and is not ADA approved would be \$4,000.00. The second ramp would be with a platform and approved by ADA. The cost for this steel ramp would be \$6,500.00. This does not include replacing the door and a canopy over the platform. Considerable discussion on different types of ramps such as wooden, concrete, motorized lift were discussed. It was decided that more prices would be obtained and brought back to next months meeting for discussion.

Scholarship Committee—Bob (K1KVV) reported that he had met with **Larry (AA1FS)** and that **Larry** decided to resign from the position of Scholarship Committee Chairman. We now need a new Chairperson and also new members for the Committee.

At this time the President Louie (W1CH) arrived and took over the meeting.

Technical Committee—Tim (N1TI) and **Dave (W1DJG)** were not present but did send an email to be read to the members as their report.

Dave (W1DJG) reports that everything is going well technically. The repeater is fine other than the noise around the input frequency. He suggest putting together a *Fox Hunt* around the tower to see where the interference is coming from.

Dave has donated electronic goodies for the flea market next month. Dave also suggested that someone set up a session for the 900 MHz rigs to be programmed.

Dave and **Ben (N1WBV)** will be setting up a *G5RV antenna* as soon as possible, all they need is time; but it will be done soon.

Tim (N1TI) reports on the web cam server. Since there is a wide diversity of camera types, with all different interfaces, we need to use an application like *Webcam XP*. Tim said that we do not have the proper equipment now to make it work with the several camera's needed for property security.

Tim said he would try to cannibalize some surplus machines and add memory to see what he could do; but he suggests that we may have to get a new machine and proper license to operate the camera's properly. The alternative would be to open individual ports to all cameras, but there would be no way to throttle the bandwidth. This would kill EchoLink and IRLP.

Special Committees

Radio Events—Bob (K1KVV) mentioned that there are several radio events going on in the next few months. On October 3, the Acushnet EOC is sponsoring an emergency communication workshop. A two-day road race event on August 29 & 30, check with **Tony (N1XRS)**. The Buzzards Bay Triathlon is September 20

COMMUNICATIONS

Bill Madden (W4NWM) would like to donate some equipment to the Club. A motion was made and seconded to accept the donation and it was voted unanimously.

An invitation from the *Newport Radio Club* to visit the NE Steam & Wireless Museum on October 12, 2009; the cost would be \$10.00 per person.

A request by **Tony Duarte (N1XRS)** for permission for the *Buzzards Bay Triathlon* to use our repeater on September 20 for their event. A motion was made and seconded to allow this request. This was voted unanimously.

Ratification of New Members

One application was received from **Marc Dumont (KB1ODE)**, a General Class amateur. A motion was made and seconded to accept Marc Dumont as a member, this was voted unanimously.

Adjournment

At 8:03 PM, a motion to adjourn was made and seconded, voted unanimously.

Respectfully Submitted
Marcel Dumont, (W1MLD)

50/50 RAFFLE

A 50/50 raffle was held after the Business Meeting.
Total of \$26.00.
Winner was **Bill Vincent (W1POW)**

SEMARA News

ROGER M. QUINTIN KA1FAT (SK)

Roger M. Quintin—KA1FAT, 84, a lifelong resident of New Bedford, passed away on Thursday, August 13, 2009, at St. Luke's Hospital, after a brief illness.



Roger was a country music singer since the age of 14; he played guitar in his father's band as well as his own *Roger Quintin and the Hometowners* for over thirty years. He had been a member of St. Joseph and St. Anthony choirs.

He is survived by his wife of 62 years, Rita E. Quintin and their six children and six living siblings as well as nine grandchildren, five great-grand children and many nieces and nephews.

KA1FAT was a life member of SEMARA, having joined in 1983.

Our deepest sympathy goes out to his family.



WHY HAM RADIO?

Adapted from *Avery's QTH* in
Handiham World Weekly E-Letter
26 August 2009

As asked by *Avery-KOHLA*, "Why HAM radio? What about Citizen Band, computers, and cell phones? So why do we need that Ham Radio stuff?"

CB radios are good for short distances, but what about getting a message 1/2 way around the world? Family Radio systems are the same. Computers can work too, but what if the battery goes dead right in the middle of a vital communication? Or what if the internet connection fails?

Cell phones are all right too, unless the cellular system gets overloaded or the tower is blown down in a tornado or hurricane. Can you dial up the International Space Station with your cell phone and talk

to them in an emergency? You can't unless you are patched in by another communications source.

Having to take that FCC test makes Amateur Radio operators more knowledgeable about the world of communications than the general public. Hams have a better idea as to why and how things in communications happen and can make necessary adjustments when and where necessary. It is not difficult to pull a battery from a vehicle and use it to power a 100 watt all-band all-mode radio, then put it back in the vehicle, start the engine to recharge it, and start the process all over again to keep the communications link open.

Hams, Radio Amateurs, can change frequency bands if one is not good, or change modes of operation if it is necessary to get a signal out. Over the years this has been proven many times. When the world has a disaster, it is the ham operators who get the information out first. Both 9-11 and Katrina are more recent examples here in the USA.

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You can tell people who you are talking to that Amateur Radio is not dependent on just one method of communications but on many. And, that by taking an FCC examination, you show you have the knowledge to be an Amateur Radio operator AND, as per the bill signed by President Bush, a part of Homeland Security.

As the ARRL likes to remind us "When all else fails, there's Amateur Radio."

Now let's make sure we can live up to our advance publicity. Sign up for refresher courses, take part in practice drills, hone your skills!



More SEMARA News



ARRL ARES SET

October 3, 2009

<http://www.arrl.org/FandES/field/setguide.html>

The purpose of the Simulated Emergency Test (SET)

1. To find out the strengths and weaknesses of ARES, NTS, RACES and other groups in providing emergency communications.
2. To provide a public demonstration--to served agencies such as the American Red Cross, the emergency management agency and through the news media--of the value to the public that Amateur Radio provides, particularly in time of need.
3. To help radio amateurs gain experience in communications using standard procedures and a variety of modes under simulated-emergency conditions.

During September, the ARRL will be among dozens of organizations and agencies taking part in *National Preparedness Month*. "The Ready Campaign," produced by the Ad Council in partnership with the US Department of Homeland Security (DHS), is aimed at making citizen preparedness "a priority for every city, every neighborhood and every home" in the US.

The ARRL encourages you to consider this year's Simulated Emergency Test and preparations for it as a demonstration of Amateur Radio's readiness and as an active participant in National Preparedness Month. <http://www.ready.gov/>, <http://www.ready.gov/america/npm09/index.html>.



MEMBERS' S-LINKS

| Frequency | CTCSS | Call/IRLP/E-link | Location |
|-----------|-------|--------------------|-------------|
| 147.520 s | — | K1JGV-L/-/277143 | N Dartmouth |
| 147.540 s | 67.0 | W1EAV-L/4568/45688 | Marion |

SOUTHERN NEW ENGLAND WEATHER CONFERENCE

Saturday, October 24, 2009
Brookline, MA

<http://www.sneweatherconf.org/>

Early-Bird Registration

Early-Bird Registration has opened and will remain open through September 14th with a registration fee of \$65; for those who come to the evening dinner, an additional \$30. Regular registration between September 15th through October 17th is \$75. Late registration between October 18th-25th is \$85. Students and teachers are given a \$10 discount if their affiliation is listed on the registration. The registration fee does include breakfast, lunch and snacks.

Julio Ripoll-WD4R, Assistant Amateur Radio Coordinator for the National Hurricane Center Amateur Radio station WX4NHC will be giving a presentation on the 29-year history of their operations at the Hurricane Center and the role they play in National Hurricane Center operations and is coming up from Miami Florida.

Additional presentations of topics include: The July 24, 2008 New Hampshire Tornado (Mish Michaels), Hurricanes Affecting Atlantic Canada (Peter Boyer, Canadian Hurricane Center), How Weather Affects Aviation, An Analysis of Waterspout Development in Southern New England (NWS Forecasters), Ice Storm 2008 (NWS forecasters, National Grid, US Dept. of Agriculture, Amateur Radio SKYWARN Coordinator).

Reed Timmer, from the Discovery Channel's Storm Chaser program, will be the after dinner speaker. He will discuss what he has seen and his experiences on the program.

Robert Macedo (KD1CY)

ARES SKYWARN Coordinator

E-Mass. ARES Section Emergency Coordinator



VE SESSIONS

Walk-ins permitted unless otherwise noted.

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

SEMARA – 10:30AM **Oct 3rd**

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

Braintree, MA – 9:00AM **Sep 12th**

William Needham-K1WN
K1WN@aol.com
 781-845-4400

Canton MA – 7:30PM **Sep 17th**

Louis Harris-N1UEC
N1UEC@n1uec.org
 508-333-5714

Cranston, RI – 9:00AM **Sep 26th**

Kenneth Carr-KB1AWV
KB1AWV@yahoo.com
 401-828-1665

Falmouth, MA – 9:00AM **Sep 12th**

W. Ben Fleck-K2LYE
BenFleck@cape.com
 508-540-2583

Fall River, MA – 7:00PM **Sep 21st**

Skip Denauly-KB1CNB
skip@newtestamentschool.org
 774-644-3469

Middletown, RI – 9:00AM **Sep 26th**

Louis Mester-W1CH
W1CH@arrrl.net
 401-263-6045

Providence, RI – 7:00PM **Sep 10th**

Jack Garforth-K1IG
K1IG@verizon.net
 401-683-2250

Slatersville, RI – 9:00AM —

Robeert E. Jones-WB1P
WB1P@arrrl.net
 401-333-4787

COMING FLEAS & FESTS

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

13 Sep SEMARA Tailgate **Clubhouse**
 Tim — n1ti@arrrl.net

19 Sep 76 Auction & Flea **Forestdale, RI**
 Rick — k1kyi@arrrl.net

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*

SOME CONTESTS

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

These are all mode events: Phone, CW, Digital

Sep 5, 1200Z - Sep 6, 0400Z 1.8-28 50+ **Colorado QSO Party** www.ppraa.org/coqp

Sep 6, 1800Z - Sep 7, 0300Z 1.8-28 50+ **Tennessee QSO Party** www.tnqp.org

Sep 12, 1400Z - Sep 13 2400Z 3.5-28 144 **Arkansas QSO Party** www.arkanhams.org

Sep 12, 1600Z - Sep 12, 2400Z 3.5-28 50,144 **Ohio State Parks On the Air** parks.portcars.org

Sep 12, 1800Z - Sep 14, 0300Z 50+ **ARRL September VHF QSO Party** www.arrrl.org/contests

Sep 12, 1900Z - Sep 13, 0400Z 50+ **QRP ARCI VHF Contest** www.qrparci.org

Sep 19, 1300Z - Sep 20, 2100Z 3.5-28 50+ **South Carolina QSO Party** w4cae.org

Sep 19, 1600Z - Sep 20, 2400Z 1.8-28 50 **Washington State Salmon Run** www.wwdxc.org

Sep 19, 1800Z - Sep 20, 1800Z 1.8-28 50+ **QCWA Fall QSO Party** www.qcwa.org/qso-party.htm

Sep 21, 7 PM - Sep 21, 11 PM 144 **Fall VHF Sprint** www.svhfs.org

Sep 26, 1400Z - Sep 27 2000Z 1.8-28 50,144 **Texas QSO Party** www.txqp.net

Sep 29, 7 PM - Sep 29, 11 PM 222 **Fall VHF Sprint** www.svhfs.org

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 | NB1MA | 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 |
| 145.330 - | 94.8 | K1CW | Bristol, RI |
| 145.350 - | 100.0 | N1BS | W Warwick, RI |
| 145.450 - | 100.0 | W1SYE | Portsmouth, RI |
| 145.490 - | 67.01 | W1SMA/4617/4611 | Fairhaven |
| 146.625 - | 141.3 | K1RSR | E Prov., RI |
| 146.655 - | 88.5 | WA1GPO | Falmouth |
| 146.685 - | 82.5 | N1ZIZ | Plymouth |
| 146.700 - | | K1CR | Cranston, RI |
| 146.730 - | 67.0 | W1SGL | E Sandwich |
| 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+ | SEMARA 67.0 | W1AEC/4347/44347 | Dartmouth |
| 147.015+ | 77.0 | N1MIX | N Prov, 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/—/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 | 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 ² | Brockton |
| 223.820 - | 67.0 | N1JBC | Newport, RI |
| 223.900 - | | KA1ABI | Coventry, RI |
| 223.920 - | | KA1LMX ² | 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 | NIKUG/4133/94940 ² | Quincy |
| 224.560 - | 100.0 | KA1NXS | Exeter, RI |
| 224.620 - | 88.5 | N1LEO ² | Attleboro |
| 224.660 - | | W1KG | Medway |
| 224.760 - | | KA1SOO | W Warwick, RI |
| 224.920 - | 67.0 | N1JBC | N Prov., RI |
| 224.960 - | 88.5 | W1VET ² | Warwick, RI |

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

Frequency CTCSS Call/IRLP/E-link Location 440 (within 25 miles of SEMARA)

| | | | |
|-----------|-------|--------------------|--------------------|
| 441.400+ | 192.8 | WG1U | Assonet |
| 441.750+ | 192.8 | W1AQ ² | E Prov., RI |
| 442.550+ | 67.0 | WG1U | Assonet |
| 443.150+ | 94.8 | K1CW | Bristol, RI |
| 444.350+ | 88.5 | W1ACT ² | Fall River |
| 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 (-12 MHz) | | 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/4571/465188 ¹ | Marshfield |
| 927.4875 | 131.8 | N1UEC/4486/278206 ¹ | Wrentham |
| 927.5750 | D051 | N1UMJ | Rehoboth |
| 927.6125 | 131.8 | KA1RCI ^{2 3} | Lincoln, RI |
| 927.6250 | 131.8 | W1EHT ³ | Pembroke |
| 927.6500 | D031 | W1SMA | Dartmouth |
| 927.6750 | D244 | N3LEE ² | Cumberland, RI |
| 927.6875 | 131.8 | KA1DTA | Taunton |
| 927.7125 | 131.8 | KB1HTO ³ | Norton |
| 927.7625 | 67.0 | KA1EZH | N. Prov., RI |
| 927.7759 | D244 | K1RJZ/4977 ¹ | Boston |
| 927.7875 | 127.3 | N1SEC | N. Attleborough |
| 927.8250 | 131.8 | N1JFU/4335 ^{1 3} | Hingham |
| 927.8625 | D031 | NN1D/4004 | Fall River |

¹ NEAR-900 Net ² OFF ³ Transmits 100.0 Hz tone

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

ANSWER: HAMMIN' AROUND

What is the half-power bandwidth of a parallel resonant circuit that has a resonant frequency of 3.7 MHz and a Q of 118? $\Delta f = \frac{f}{Q} = \frac{3.7 \text{ MHz}}{118} = 31.4 \text{ kHz}$

ANSWER: SUDOKU

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