



The SPARC

Newsletter of the Boston Amateur Radio Club

Volume XXI, Number 6; June 2009

<http://www.barc.org>

w1bos@arrl.net



It's Election Time

At the June General meeting we will hold our annual election of officers. A candidate for office may be nominated from the floor up to the time for that ballot. Any member (with a license) may be nominated (with the agreement of that member) or by self-nomination for any of the offices. This is your opportunity to help steer the club where you think it should go. All members are urged to consider making this contribution to the hams of our community. If you are interested, please come forward at the meeting.

The Nominating Committee has presented the following qualified candidates:

President	Tom Bertolino, KB1P
Vice President	Mark Duff, KB1EKN
Secretary	Jim Bradley, KB1JKJ
Secretary	Angie Covey, (Call not yet issued)
Treasurer	Jim Clogher, N1ICN

General Meeting Thursday, 18 June: Build Your Own Antenna, Field Day, Elections

With Field Day as motivation, you can assemble a 20-meter wire dipole with materials and instruction furnished by BARC. This antenna can be used at home to introduce new hams to the world of HF. The design is simple but elegant, and very easy to construct. There will be a discussion about our Field Day plans so everyone can participate and have fun. As announced elsewhere, the election of officers will take place.

Our June General meeting will be held on Thursday, 18 June. As usual, meetings start at 7:00 pm on the third Thursday of each month at the Salvation Army third floor auditorium. The address is 147 Berkeley St, but the entrance is on Columbus Ave. The nearest **T** stations are Back Bay on the Orange line or Commuter Rail (exit the rear of the station); and Arlington on the Green line. Free parking is available in the adjacent lot. The entrance to the parking lot is from Columbus Ave. (across the street from the firehouse). A map appears on page 7 of this newsletter.

We usually take the first few minutes for any pending business, followed by the main topic of the month. Both portions of the meeting are important.

If you have any ideas about topics that you would like to see presented at future meetings, please feel free to contact one of your officers. Remember – this is *your* club and we are here to help *you* have fun and get the most out of ham radio.

Field Day? Fun Is Not Far Away

With only a couple of weeks to go, we have had a significant change in our Field Day plans, compared to the past 15 years: for 2009 we will hold Field Day at the Bare Cove Fire Museum in Hingham. It sounds far away, but it is really easy to get to – including by **T**.

The basic planning will remain the same as recent years. Start by thinking about how our 2008 Field Day went. We opted for a limited club contribution, but open to all. We provided compact HF stations, antennas and generators. Beyond that, anyone could participate in the club activity by providing their own station facilities – and they did.

The result was a resounding success. We set up, operated, and tore down with ease – and had **fun** doing it. This year we will definitely set up and operate on **Saturday, 27 June**, with an option on continuing through the night and/or on **Sunday, 28 June**. Further details, including a map and travel directions will appear in the June issue of this newsletter.

Field Day is an ARRL-sponsored event held in the US and Canada to demonstrate for hams and the public our readiness for emergency communications support. The focus is to set up fully operational stations in the field, under any weather conditions, and contact as many other stations as possible. All this in the interest of having fun and showing ham radio to the public.

The present plan is for BARC to set up at least two HF stations and one VHF station, starting at 0900 on Saturday, 27 June. The stations will include everything from field power to radios, antennas, computers, and chairs to sit on. If you want to bring your own equipment, feel free, just coordinate the operation with the station manager.

To add to the jollity, BARC will hold its annual summer cookout in conjunction with Field Day. This is a combined opportunity to invite your family and friend(s) not only to experience radio in action, but also to dig into a social picnic. At about 1700, hot dogs, hamburgers, sodas and the necessary fire and condiments will be provided by the club. If you want to bring your own food, the grill is ready for you.

The fun is yours for the taking. We will be discussing it at our May and June General meetings and at special planning meetings to be announced. Bring your ideas, or just say you want to be there – to see, to learn, to try, or maybe to see how other people have fun. The point here is that even if you hold a Novice or Technician license, you can operate on the HF bands and get the

feel for your upgrade. We want everyone (ham or not) to get on the air.

Bare Cove in Hingham is now accessible by the new MBTA Greenbush Commuter Rail Line. The train station is "West Hingham." The Fire Museum is about 1/3 mile in on a road directly across the street from the train platform. The road runs parallel to "Thomas Auto Body." If it appears desirable, we may run a shuttle from the station. The complete schedule is shown below and can be found at:

www.mbta.com/schedules_and_maps/rail/lines/?route=GREE&direction=O&timing=U&RedisplayTime=Redisplay+Time

Talk-in will be available on 145.230 or 146.520 (simplex).

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*MBTA Saturday Schedule – Greenbush Line*

**Outbound**

| Train Number  | 1071<br>AM | 1073<br>AM | 1075<br>AM | 1077<br>PM | 1079<br>PM |
|---------------|------------|------------|------------|------------|------------|
| South Station | 08:05      | 09:45      | 11:03      | 12:55      | 02:45      |
| JFK/UMASS     | 08:11F     | 09:51F     | 11:09F     | 01:01F     | 02:51F     |
| West Hingham  | 08:37      | 10:18      | 11:36      | 01:28      | 03:17      |
| Train Number  | 1081<br>PM | 1083<br>PM | 1085<br>PM |            |            |
| South Station | 05:10      | 08:00      | 10:55      |            |            |
| JFK/UMASS     | 05:16F     | 08:06F     | 11:01F     |            |            |
| West Hingham  | 05:43      | 08:33      | 11:28      |            |            |

**Inbound**

| Train Number  | 1076<br>PM | 1078<br>PM | 1080<br>PM | 1082<br>PM | 1084<br>PM |
|---------------|------------|------------|------------|------------|------------|
| West Hingham  | 12:42      | 02:31      | 04:17      | 06:52      | 09:52      |
| JFK/UMASS     | 01:09      | 02:59      | 04:44      | 07:19      | 10:19      |
| South Station | 01:18      | 03:07      | 04:53      | 07:27      | 10:26      |

**Notes**

**F** indicates that the train stops to discharge passengers on notice to the Conductor and to pick up passengers on platform visible to Engineer.

For planning purposes if you want to help or just attend, please let us know by the June General meeting on 18 June, or contact Field Day Chair, Tom Bertolino, KB1OKP. He can be reached at: [kb1okp@arrrl.net](mailto:kb1okp@arrrl.net).

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Driving Directions to Bare Cove Fire Museum

19 Fort Hill St, Hingham
 N42.13.87; W70.52.85 -- Phone 781.749.3535

From Route 3 North or South: Take the Rt 228 Rockland/Hingham Exit 14 into Hingham.

If coming from the North, turn left off the ramp. You will pass a Home Depot on your right.

If coming from the South, turn right off the ramp. You will pass "Not Your Ordinary Joe's" Restaurant on your right and a pond on your left.

Repeaters: 145.230 (-), PL 88.5 444.050 MHz (+), 110.9 Hz

Continue about 3/4 mile to a set of traffic lights at Rt. 53.

Go straight through the traffic lights. You will be on Main St./Rt. 228 Hingham. Go about 1.6 miles and you will pass a fire station on your left.

Continue straight another 1.2 miles and take a left at the traffic lights, which is High Street.

Proceed 3/10 of a mile and take your first right on Cross St which becomes New Bridge St. Drive 1.4 miles to the end.

At the stop sign turn right and proceed 1/2 mile. Turn left just before "Thomas Auto Body." The MBTA West Hingham Station is on your right. Proceed straight into Bare Cove Park about 1/3 of a mile in. The Fire Museum is on the right.

Future BARC Meeting Dates

(Third Thursdays at 7:00 pm)

- 18 June 2009 – General Meeting
(no General Meetings in July and August)
- 3 Sept 2009 – Business Meeting
- 17 Sept 2009 – General Meeting
- 15 October 2009 – General Meeting

Looking Ahead At Public Service

When hams engage in public service as mandated by the FCC Rules, the benefits go well beyond just following the rules. We can enjoy our hobby - have fun! We protect the health and safety of event participants. We support worthy charities. We learn to work within an organized effort. We experience the technical aspects of operating under adverse conditions. We can demonstrate these qualities to the communities we serve and thus promote our service for their acceptance.

Throughout the year BARC coordinates numerous public service events. Most of these are open to hams who are new to helping as well as experienced hams. For 2009, we have already been tasked with several events. Feel free to contact Bob Salow, WA1IDA, if you have any questions - walida@arrrl.net or 508.650.9440.

➤ *BAA Half Marathon – 11 October 2009 – Boston*

Other events may jump in on short notice. Among our skills is the ability to apply our technical, organizational and staffing quickly and proficiently. Join our team and join in the fun and learning.

BARC Growth

It's a rare month when we fail to add some new or upgraded members. We publish their names so that you can give them a special welcome.

- Tom Bertolino KB1P (new call)
- Linda Blair KB1RBP (upgrade to General)

Make it a point to introduce yourself when you see them at a meeting. We would also like to note here all call sign changes. If you fit any of these categories, please promptly notify the Keeper of the Database, Bob Salow, WA1IDA at: 508.650.9440 or email: walida@arrrl.net.

Simplex: 147.420

CORRECTION: New Repeaters for BARC

Because of a reporting error in last month's issue, the new frequency of the 70 cm repeater was incorrectly designated. It is now correctly 444.050 MHz (+), CTCSS 110.9 Hz.

As stated earlier, both BARC repeaters have been replaced. On VHF, we have a Kenwood TKR 750, using our original frequency assignment of 145.230 MHz, CTCSS 88.5 Hz; on UHF, a Kenwood TKR 850. Note the change in the UHF frequency to accommodate Department of Defense restrictions. Both transmitters run about 35 W.

The VHF repeater is operational, but still under study. At this writing, the UHF repeater has a receiver sensitivity problem, but it is being worked on. Your signal reports and other comments are valuable. Please let the club officers know your observations.



The Clay Center Observatory welcomes BARC members

www.claycenter.org

Public Astronomy Nights, Astronomy Day Events,
Amateur Radio Classes, Amateur Radio Youth Club,
Community and Adult Education, Weather Festival,
Science Lecture Series. Educational Outreach

20 Newton St., Brookline, near Larz Anderson Park

Minutes of the BARC Business Meeting

4 June 2009; Recorded by Joe Harris, N1QD, Acting Secretary.

The meeting was called to order at 1905.

Those attending:

Bob Salow	WA1IDA	Acting President
Tom Bertolino	KB1P	Vice President
Jim Clogher	N1ICN	Treasurer
Joe Harris	N1QD	Acting Secretary
Arthur Ashley	N1NHZ	
Jim Bradley	KB1JKJ	
Hank Buccigross	K1QK	
Mark Duff	KB1EKN	
Frank Murphy	N1DHW	
Nathaniel Vishner	KB1QHX	

Committee reports-

Repeater: WA1IDA reported the 145.23 repeater is up and running, though the new controller has not been installed. The 444.050 repeater is running, but is currently experiencing receiving problems.

Treasury: N1ICN reported a current balance of \$4989.57.

Public Service: The next public service event BARC will be coordinating is the BAA Half Marathon in October. As of now, there is no plan for ham support at the Tall Ships visit in July, but this may change.

Repeaters: 145.230 (-), PL 88.5 444.050 MHz (+), 110.9 Hz

June General Meeting: KB1P reported that the June General meeting will deal primarily with Field Day and officer elections. There also will be a workshop, featuring the building of 20-meter wire dipoles for members' home use.

VE Session: There has been no meeting with the Pierce School's principal yet regarding further use of the school for VE sessions.

Newsletter: Due to the number of members taking delivery of the newsletter electronically and fewer by postal mail, there will be no need for a folding session this month.

Virtual Business Meeting: N1QD suggested replacing the Virtual Business Meeting format with an email reflector, and volunteered to set one up for BARC. WA1IDA will provide a list of email addresses currently on the list.

Field Day: KB1EKN will provide directions to Bare Cove Park from different directions to be published. N1NHZ suggested inviting public safety officials from the town of Hingham to visit our Field Day site. Final details for lunch and the BBQ cookout will be made at the June General meeting. KB1P has ordered several Field Day hats, which will be available at the site.

Salvation Army: Talks are progressing for the Salvation Army license class.

Dues: KB1EKN moved to increase dues for regular membership by \$1 annually, seconded by N1DHW. The motion was passed and the increase will be effective in 2010.

Regular Business Meetings

-- Bob Salow, WA1IDA

We have Business meetings quarterly rather than monthly as in the past. Unless circumstances warrant, BARC Business meetings will be held on the first Thursdays of December, March, June, and September. The next Business meeting will be on 3 September. All members are urged to attend and participate in club affairs. This is where club functions are discussed and decided, and your help is needed to guide us.

A short opening period of each General meeting will continue to be used to bring any immediate business matters to everyone's attention.

To provide continuity of club business between the formal Business meetings we have a virtual Business meeting via an email reflector. Any member interested in the affairs of the club can ask to be on this virtual meeting list – just give your name, call and your email address to any officer.

BARC Volunteer Exam Sessions

The Boston Amateur Radio Club holds monthly VE sessions on the second Monday of each month, except during July and August. Sessions are held at 7:00 pm at the Pierce School, 50 School St in Brookline, Room 110, next to the cafeteria. A map is shown on page 7.

Simplex: 147.420

If the Brookline Public Schools (or the Pierce School itself) is closed due to inclement weather or other problems, the exam session for that month will be canceled.

There is a free parking garage at the circular driveway. If driving, enter School St from the Washington St side (opposite 394 Washington), rather than from Harvard St. Check: www.barc.org/barc/school_map.gif : for more info.

For those traveling via the **T**, take the "D" branch of the Green Line to the Brookline Village station. Walk north along Harvard St 0.2 miles to School St, then turn left. The Pierce School is on the left. The #66 bus runs on Harvard St, crossing School St.

Talk in on 145.230 MHz (-), PL 88.5 Hz.

We give all exams (Technician, General, and Extra). You don't need to pre-register. Please bring the following with you:

- Your current license *and a photocopy for the ARRL*, if you are upgrading
- Any CSCEs you are claiming, and a photocopy of them
- Valid ID (picture ID preferred)
- A pen and a calculator (if you want to)
- **\$15.00** (good for all the tests you take at that session, except for retests)
- Written tests can be taken sequentially at the same session for the same \$15 fee.

The needed FCC forms will be provided.

For further information, contact:

Jim Clogher, N1ICN, 617.364.4658 n1icn@arrl.net
Tom Bertolino, KB1OKP, 781.395.5538 kb1okp@arrl.net

Future Exam Dates

(Second Mondays at 7:00 pm)

(Exams are omitted in July and August)

14 September 2009

19 October 2009 (Note temporary change)

9 November 2009

Have Breakfast With BARC

BARC holds a social breakfast on the **third** Sunday of each month at the Old Country Buffet in the Watertown Mall. Breakfast is served from 0800 to 1030 (although we rarely stay beyond 1000).

We just get together, socialize and eat, without any formal club events or business. Family and friends are welcome. The extensive buffet breakfast is *very* good. The cost is reasonable (seniors get a discount).

The Old Country Buffet is in the Watertown Mall, 550 Arsenal St. in Watertown. There is plenty of parking. From Memorial Dr, continue on Greenough Blvd to the Watertown exit, turn right on Arsenal St. The #70 **T** bus from Central Square Cambridge to Watertown Square to Waltham stops right at the Watertown Mall. We hope to see all of you there – and bring your appetite!

Why don't sheep shrink when it rains?

Repeaters: 145.230 (-), PL 88.5 444.050 MHz (+), 110.9 Hz

I See the Future

18 Jun	BARC General Meeting
21 Jun	BARC Breakfast
21 Jun	MIT Flea (Cambridge)
27-28 Jun	Field Day
19 Jul	BARC Breakfast
19 Jul	MIT Flea
16 Aug	BARC Breakfast
16 Aug	MIT Flea
3 Sep	BARC Business Meeting
14 Sep	BARC VE Session
17 Sep	BARC General Meeting
19 Sep	RIFMRS Flea (Forestdale RI)
20 Sep	BARC Breakfast
20 Sep	MIT Flea
11 Oct	BAA Half Marathon (Rp)
15 Oct	BARC General Meeting
16-17 Oct	NEAR Fest Flea (Deerfield NH)
17 Oct	NE Antique RC Flea (Manchester NH)
18 Oct	BARC Breakfast
18 Oct	MIT Flea
19 Oct	BARC VE Session

(Rp) = BARC repeater(s) may be used

As you might expect, there are many more events (public service, hamfests, flea markets, etc.) taking place - some only peripheral to ham radio. For information on these, covering New England and some of New York, the "Ham - Electronic Flea Market" and the "PSLIST" lists tell the story. They are posted by e-mail to barc-list and on PBBSs regularly. If needed, contact any club member who has access to these.

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A Tale of Two Tubes

-- Dan Romnanchik, KB6NU

A couple of weeks ago, I worked N4QR on 40m CW. I could tell by the tone of his signal that he was operating a homebrew transmitter. There wasn't any 60 Hz on his signal, and it didn't chirp exactly, but I could tell it wasn't the pure tone you get out of today's radios.

I asked him about his rig, and he told me that it was a one-tube transmitter made with a 6L6. I forgot to ask him where he got the schematic, but a quick internet search turned up the following:

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The May 2005 issue of the *K9YA Telegraph* <www.k9ya.org> has an article written by N4QR titled, "The Wonderful One-Tuber," that contains the schematic for the transmitter. The K9YA folks don't make issues of *The Telegraph* available on their website, but I was able to get a copy of the issue by emailing them.

- A 6L6 Classic <www.io.com/~nielw/6l6/6L6.htm>
- WB2MIC 6L6 Transmitter Project <www.metaphoria.us/hamradio/6L6_transmitter_schematic.htm>

The 6L6 is a pentode that, according to Wikipedia <<http://en.wikipedia.org/wiki/6L6>>, was introduced by the Radio Corporation of America (RCA) in July 1936. Apparently, it was used quite a bit in public address systems.

After the tube became successful, tube manufacturers introduced a number of variations, including the venerable 807. The original 6L6 was capable of delivering 19 W; the latest variation, the 6L6GC is rated for 30 W. The 6L6GC is still used in guitar amps, and is still manufactured in Russia, China, and by Groove Tubes <www.groovetubes.com> in the U.S. They sell a number of different 6L6 variants; the cheapest is \$16, the most expensive \$180!!

Tube #2

One of the reasons I was interested in the 6L6 is because about a year ago I came across a schematic for a transmitter using 6A6 dual triode. I had just come into possession of a couple hundred tubes, and while I didn't have a 6A6 (at least I haven't found one yet), I do have a couple of 6J6 dual triodes. They're not quite as high power as the 6A6, but I'm still thinking about building a little transmitter with one.

As you might expect, there's a bunch of information on the internet about this tube:

- The Jones Push-Pull Transmitter <http://wv7g.home.mindspring.com/jones_6j6.html> was built with a 6J6 instead of a 6A6.
- Another schematic can be found on the AK0B website <www.qsl.net/ak0b/>.
- 6J6 data sheet <www.gargnas.net:3000/tubedata/6J6.pdf> from the GE data book.

One interesting fact about the 6J6 is that IBM used it in the 604 computer. Unfortunately, they found it to be not as reliable as they wanted it to be, but at first none of the tube manufacturers was interested in making a more robust version. This led IBM to set up a tube-making laboratory where they could experiment with designs. They developed a more reliable version of the 6J6 and finally convinced RCA to manufacture the tube. According to the author of the history of the 604 (<http://ed-thelen.org/comp-hist/IBM-604.html#new>), part of the concern is that IBM would decide to get into the tube business.

So, the next time you hear a signal that doesn't sound so perfect, remember that there just might be a story behind it. Ask the op about his transmitter, and listen to what he or she has to say.

Repeaters: 145.230 (-), PL 88.5 444.050 MHz (+), 110.9 Hz

When not pondering the mysteries of vacuum tube part numbers, KB6NU teaches ham classes, works CW on the HF bands, and blogs about ham radio at www.kb6nu.com.

Are You Mosquito Food?

Unless you smell funny to mosquitoes, you can use this home made, inexpensive insect trap. It has been proven to be as effective as the big ones costing hundreds of dollars. You just have to clean it more often.

Material List:

- ✓ One 2-liter plastic bottle (empty)
- ✓ 700 ml (approx 12 ounces) warm (not hot) water
- ✓ 1 gram (about one tablespoon) dry yeast – about one package of the kind used to make bread
- ✓ 50 grams (about 1/3 cup) sugar (brown or white) or honey
- ✓ 35 cm (14 inches) duct or silicone tape (at least 2.5 cm (1 inch) wide)
- ✓ 12 x 18 inch sheet of black paper or heavy cloth
- ✓ Measuring cup
- ✓ Sharp blade knife, fine tooth saw or strong shears

How to:

Remove the cap from the empty 2-liter plastic soda bottle and discard it.

On the bottle, at the point where the neck of the bottle straightens out to the body, cut the bottle straight across. Now you have a funnel and a cylinder.

Invert the funnel into the cylinder to test the fit, which should be snug. Remove the funnel.

See the materials list.

In the cylinder, mix well the dry yeast, and honey (or sugar). Add the warm (not hot) water to about 1/3 the height of the cylinder. Mix well.

Insert the inverted funnel into the cylinder. Seal the joint with tape.

Wrap the black paper or cloth around the cylinder and funnel to make a dark hiding place for mosquitoes. Tape and trim any excess.

Place the trap outdoors in the shade, or indoors in a poorly lit corner.

The trap works immediately by creating CO₂ with the sugar/yeast mixture. This gas escapes and is found by the bugs to be attractive. They will fly into the trap and then get stuck to the sugar coated sides or just wear themselves out trying to find an exit.

About every two weeks disassemble the trap, clean it out, and rebuild it. However, if a supply of 2-liter bottles is available on this schedule, it may be more practical to make a new trap with a new mixture. This information is from:

www.makezine.com/blog/archive/2006/05/diy_mosquito_trap.html

Simplex: 147.420

Thunderstorms and Tornadoes On Your Head - NOT

-- National Weather Service

A severe thunderstorm is defined as a thunderstorm that produces one or more of the following phenomena: wind gusts of at least 58 mph, hail the size of pennies or larger, or tornadoes. A severe thunderstorm or tornado warning is issued by the local NWS office, based on radar imagery or spotter reports. When a warning is issued, residents are urged to take cover immediately inside a sturdy building preferably in a basement. Keep in mind that all thunderstorms produce deadly lightning even if the storm is not deemed severe.

Your first tornado preparedness rule should be to have a means of receiving that word that a watch or warning is in effect. A NOAA weather radio should have an alarm feature that will activate whenever a severe weather watch or warning is issued.

If in a building, you should move to the basement underneath the staircase. If no basement is available, seek shelter in a small interior room or hallway on the lowest floor. Stay away from windows and exterior doors. Do not open windows. If possible place something over your head such as a coat or blanket for extra protection. In schools or large building spaces, avoid the cafeteria, a gymnasium or auditorium because of the wide-span roofs that can collapse. You should go to an interior hallway away from exterior rooms and away from windows.

Do not stay in a mobile home or any type of temporary shelter. Seek shelter in a sturdy structure. If none is available, go to a ditch or nearby ravine. Take the protective position on your elbows and knees with your hands over your head. Never attempt to outrun a tornado in a vehicle since they can easily become airborne. Do not seek shelter under an overpass which is subject to collapse.

Always remember that deadly lightning accompanies every thunderstorm – severe or not. If caught in an open area with no shelter, crouch low to the ground with only your feet on the ground – no other body parts touching the ground. Even if lightning is miles away, large currents in the earth can produce a lethal voltage drop between two parts of your body touching the ground.

Advice for Inland Residents:

- Be sure to have plenty of batteries on hand for flashlights, AM/FM radios, and your NOAA weather radio. More often than not, power will be disrupted during the storm and may be disrupted for several days.
- Be sure to have canned food and other items on hand that do not need refrigeration. As stated above, it is almost a certainty that electrical and telephone systems will be disrupted if a hurricane strikes our region.
- If you own a portable generator, be sure it is properly hooked into the mains power supply. If it is not properly installed, it may do damage to the mains and power workers.
- Store plywood and plenty of nails so that you can quickly board up windows on open facing sides of your home. Do not use masking tape to secure windows... it will not help.

Plywood should be at least 5/8 inch thick for the best protection.

- Those living along flood prone rivers and streams should be ready to head to higher ground should flooding occur.
- In the unlikely event that you must evacuate, know where your nearest storm shelter is located and the quickest route to it.

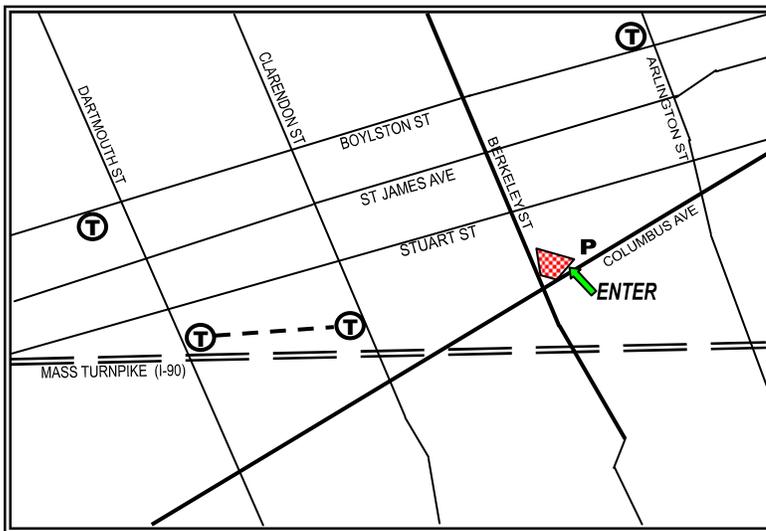
Following these simple steps will help make what can be a very stressful and difficult time go a bit more smoothly.

- Begin purchasing supplies needed to protect your property now. Some items such as plywood and batteries may run out of stock in the rush just before the arrival of a tropical storm or hurricane.
- Never plan your actions on the anticipated time of landfall. Typically in Southern New England, heavy rains and winds to tropical storm force will make any travel or outdoor preparation work dangerous as much as 15 hours in advance of the eye of the storm. All outside preparations should be completed before the onset of tropical storm force winds - 39 to 73 mph.
- Remember that most tropical systems approaching our region will accelerate dramatically. This will greatly reduce the time you have to prepare. Build extra time into your plan of action.
- Never step outside during the passage of the eye. The often calm conditions will be rapidly replaced by a dramatic shift in wind direction and a return to hurricane or tropical storm force winds.
- Know your evacuation routes and the proper shelters for your area. Check with your local municipality to see if you are in an evacuation zone.
- Some shelters will not allow pets. Make arrangements ahead of time for a place for your pets to stay. Contact your local emergency management officials for information on which nearby shelters accept pets. Some animal hospitals offer to keep pets until you are able to return home.
- Know where your gas and water shutoffs are. It is essential that you turn off both your gas and water before you leave your home. This reduces the risk of additional damage to your home when these services are restored after an interruption. Turning off the electricity at the main panel is also a good idea.
- If you choose not to head to a shelter, make arrangements now with relatives or friends if you wish to stay with them should you need to evacuate.
- Remember, you may need to evacuate to a safe location which can withstand the expected wind speeds and is not subject to freshwater or coastal flooding.

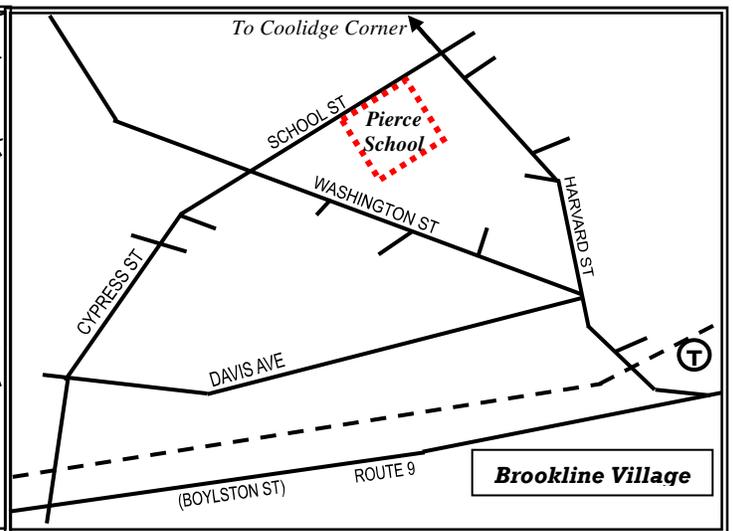
You know that indestructible black box that is used on airplanes? Why don't they make the whole plane out of that stuff?

If flying is so safe, why do they call the airport the terminal?

On the journey of life, I chose the psycho path.



General Meeting – Boston Salvation Army
Corner of Berkeley St. and Columbus Ave.



VE Session – Pierce School
50 School Street, Brookline, Room 110 next to the cafeteria

BARC Officers and Staff

President	(Vacant)		
Acting President	Bob Salow, WA1IDA	508.650.9440	walida@arrl.net
Vice President	Tom Bertolino, KB1OKP	781.395.5538	kb1okp@arrl.net
Secretary	(Vacant)		
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The Boston Amateur Radio Club is a non-commercial association of persons interested in the Amateur Radio Service. The Club is organized for the promotion of interest in Amateur Radio communication and education, for the establishment of emergency communications in the event of disasters or other emergencies, for the advancement of the radio art and the public welfare, for the representation of the radio amateur in legislative and regulatory matters, and for the maintenance of collegiality and a high standard of conduct.

The Club is open to all persons interested in Amateur Radio without regard to race, color, religion, creed, national origin, gender, disability, or sexual preference. Our General and Business meeting locations are handicap accessible. Other meeting and activity locations may be handicap accessible by arrangement.

The Club is an ARRL-affiliated Special Service Club, and is a member of the Council of Eastern Massachusetts Amateur Radio Clubs (CEMARC), and the New England Spectrum Management Council (NESMC). The Club is a participant in Partnerships Advancing Technical Hobbies Which Attract Youth to Science (PATHWAYS). The Club is also an associate member of the Courage Handi-Hams system.

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Greater Boston Net Directory

Daily 5:30 pm	Eastern Mass/Rhode Island Phone Net (NTS)	3.915
Daily 7 and 10 pm	Eastern Mass/Rhode Island CW Net (NTS)	3.658
Daily 8 pm	Eastern Mass 2M Traffic Net (NTS)	145.230 (PL 88.5)
Daily 8 pm	Slow Speed CW Net	28.160
Daily 10:00 pm	Heavy Hitters Traffic Net (NTS)	MMRA-linked repeaters: 146.610, 146.670, 146.715, 146.820, and all 222 and 440 repeaters
First Mon 8:30 pm	EMA Section ARES Net	146.610 and all MMRA links
Mon 9 pm	BARC Club Net	145.230 (PL 88.5)
Tue 8 pm	MMRA Club Net	146.610 and all MMRA links
Wed 8 pm	Wellesley Amateur Radio Society Net	147.030; 444.600 (PL 88.5)
Wed 9 pm	HHTN Swap Net	146.640
Thu 8:30 pm	AMSAT Net	146.640
Sat 9 am	Northeast SATERN Net	7.265
Sun 9:30 am	Yankee SSB Net	50.275
Sun 8 pm	Algonquin Amateur Radio Club Net	446.675 (PL 88.5)
Sun 8:30 pm	NSRA Net (with Newsline)	145.470

Repeaters: 145.230 (-), PL 88.5 444.050 MHz (+), 110.9 Hz

Simplex: 147.420