



SIGMA



de NINC

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This Month's Meeting

There are no monthly meetings in July and August.

The next road clean up will be Sunday July 19th. Last month we changed the time to get an earlier start and leave more of the day free. We will meet at the river common on 119 at 8:00 AM.

The vote for funding the Pepperell Community Center was successful so it should be open for our meetings in the fall.

Wear your badge to the meeting so new members can tell your name and you can introduce yourself to them. It may be worth your while.

Need a Ride?

Do you need a ride to the club meetings? Do you know someone who does? If you do please contact Bob W1XP 978-448-6559 and leave a message. We'll see that you get to the meeting.

Club Cookout

The club cookout will be August 15th at Skip K1NKR's place. Time is from 11 AM to 4 PM. The cookout format is to bring your own grub. Grill, condiments, and soft drinks will be provided.

NVARC Field Day

The fourth full weekend in June has come and gone, which can only mean one thing: Field Day is over! We can now once again start to focus on the important things in life – like work, family, health, and what we are going to do for field day next year.

But I am getting ahead of myself. Field day this year was a little different than in years past. For the first time, we operated in the "F" class, meaning that we operated from an Emergency Operations Center. This year, we operated from the Lost Lake fire station in Groton. Some members welcomed the change. Others felt that field day isn't field day if it isn't in a field. Personally, it was different. I liked the fact that it was dry, bug free, and air conditioned, but I missed the outdoor environment. And as usual, it was fun.



Courtesy KB1ESR

Bruce K1BG explaining the GOTA station to one of our Aaron.

We operated in the 2F class, meaning two simultaneous transmitters at an EOC. The rules also allowed us a GOTA station (meaning "Get On The Air", for newly licensed and inactive hams) and a VHF/UHF station. We had contacts from 80 through 2 meters on both phone and CW.

Field Day this year was a kinder, gentler field day. Antennas were simple multiband dipoles strung from trees and the communications pole at the station. Larry, KB1ESR, had the Groton ladder truck put up halyards in the trees to hang the dipoles. Bob, W1XP, designed and built the antennas. Skip, K1NKR, provided a cool antenna setup for 6 and 2

meters. And equipment was provided by W1XP, WA1GON, and K1BG to round things out. Everything was networked together (after a brilliant network repair job by N8VIM). Contacts on these stations were made by GREG (an unlicensed kid who showed up and made some contacts), K1BG, K1NKR, KB1AWE, KB1ESR, KB1LZH, KD1LE, KD1SM, KK1X, N1NC, W1XP, W1ZZ, and WA1GON.

Jim, N8VIM served as our GOTA "Coach", and the station was set up by Roland, W1RLG. Roland personally made 100 contacts during field day, and another 16 contacts were made by Bob, AB1CV.



Courtesy KK1X

Roland W1RLG at the GOTA station with a visitor.

Scoring for the year looks like this: 721 phone contacts plus 278 Phone contacts plus 116 GOTA contacts (all phone) for a preliminary score of 3672 points. We claimed credit for 150 watt category, emergency power, media publicity, set-up in a public place, information booth, NTS message to our SCM, W1AW field day message, formal NTS traffic, site visitation by a served agency official, youth element, GOTA bonus, and submission using the b4h.net applet. We missed bonus points given for satellite QSOs, natural power QSOs, visitation by an elected government official, and an educational activity bonus. But in general, we did very well with the bonus points.

The result is a claimed score of 4842 points. This is a little down from last year, but we had much simpler antennas this year. Based on last year's scores, we would have finished in the top ten, and first in New England. And since our goal is to learn and have fun (and NOT to win), we did very well indeed!

Our visitors log showed a total of about 30 participants and visitors, including KB1AWE, KB1ESR,

K1BG, KD1LE, KD1SM, W1ZZ, K1NKR, KK1X, W1TRC, K1VQR, K1NNJ, N8VIM, W1RLG, AE3E, Aaron (son of AE3E), KB1HFT, Fred Morlock (son of N1FOO), N1FOO, AB1CV, AA1VS, W1GFF, W1XP, WA1GON, N1MNX, AB1GA, Greg Gagne, and Rena Gagne.



Courtesy KB1ESR

Aaron and his father operating the GOTA Station under Roland's supervision

My special thanks go to Larry, KB1ESR, who worked with the town of Groton in making arrangements for the use of the station and preparing the site, Bob, W1XP, for making antennas and providing an HF station, WA1GON, N8VIM, and K1NKR for coordinating the other stations, Karen, Peg, and Cindy for cooking and providing meals, and Chief Joseph Bosselait and other members of the Groton Fire Department for their help and support.



Courtesy KD1SM

Fire Lt. Bill VanSchalkwyk generator testing during Field Day.

Thanks to everyone who came to help set up equipment and antennas Friday night and Saturday morning

It's never too early to think about emergency preparedness. Between now and next year, make sure you are prepared for an emergency. A lot can happen between now and next June. In the meantime, mark June 26th and 27th, 2010 in your calendar for field day 2010. See you next year.
Bruce, K1BG

Field Day DX

Dennis K1LGQ reports in from Field Day in Quebec, Canada.



Courtesy K1LGQ

Field Day in Canada...VA2KSC.

I was in LaColle, Quebec using VA2KSC and I loved every minute of it.

I was 20 feet away from the pool; 15 feet away from the Jacuzzi; and 10 feet away from the BBQ. OH, I was right on top of the rig--TS-570 and a 550 foot loop 25 feet up. Don't know how we did but the fun never ended.

Dennis--K1LGQ

Last Month's Meeting

Last months meeting program was by Mike Neilsen, the ARRL EMA Section Manager. Mike talked about ARRL and Section activity and news. He mentioned the upcoming Field Day and how we always put on a good event. He also talked about new ham and club member recruitment.

Our Field Day Coordinator Bruce K1BG talked about how this Field Day was going to be run and what additional help was needed.

Bob W1XP surveyed the group as to the interest in the NVARC Lantern Battery Challenge. There was sufficient interest so we will proceed. See article below.

In attendance

Bob W1XP, Dwight AA1MT, Bruce K1BG, Tom K1NNJ, Gary K1YTS, Stan KD1LE, John KK1X, Les N1SV, Jim N8VIM, Darryl WA1GON, Rod WA1TAC, Earl WR1Y, Joel W1JMM, Dave N1MNX, John KK1X

50th Longsjo Classic Bike Race

50th Longsjo Classic Enjoyed Two Fine Days of Racing

Fourteen Amateur Radio Operators enjoyed the first nice sunny day in quite a long time at the 50th running of the Fitchburg Longsjo Classic bicycle race. Saturday was actually the third day of the event but also has the longest and most challenging course. The Mt. Wachusett Road Race is run on an 11-mile course in Princeton and Westminster. There are 8 races throughout the day with a loop count assigned to each class. The highest category racers, the Men's Professional, Category 1, and Category 2 racers make 10 loops for a total of 110 miles of racing.



Courtesy KD1SM

The Road Race crew; back row left to right: K1JHC, N1MGO, N1KKY, W1HFN, K1YTS, AB1CV, KB1ESR (with Greg in front), W1SEX. Front row left to right: KK1X, N1CPK (Race Director and Fitchburg Cycling Club President), KB1LRL, KD1LE, and KA1JL. Behind the camera is KD1SM.

For the first time this year the finish line was in a location that accommodated crowds of spectators. In previous years the finish line has been at the summit of Mt. Wachusett. The summit road is closed this

summer due to repair work from the December ice storm so the finish line was in downtown Princeton. There is some indication that the spectators appreciated this change so much that it may be considered for future years as well.

Amateur Radio volunteers from MARA, NVARC, and the Mohawk Amateur Radio Club were stationed at 13 critical intersections around the Road Race course. Our task was to relay lead racer positions to the next location so that the course marshalls and Princeton and Westminster police officers could control the vehicle traffic. We had only one crash that required a medical call. The ambulance crew thanked us, noting that the response was much faster due to our presence.



AB1CV stands underneath the start / finish line banner preparing a group of racers for their start.

The fourth day of the Longsjo Classic -- and the second day for the Amateur Radio volunteer crew -- was the Criterium race in downtown Fitchburg. Six radio operators covered this short course, informing the USCF officials of issues on the course to keep the racers safe.

Six volunteers from NVARC participated (both days): Bob AB1CV, Gary K1YTS, Larry KB1ESR, Stan KD1LE, Ralph KD1SM, and John KK1X. They were joined by Tom K1JHC, Tom K1KKY, Warren KA1JL, Ray KB1LRL, Charlie KT1I, Gordon N1MGO, Barry W1HFN, and Paul W1SEX from MARA and MARC. Bob had volunteered with the Longsjo committee for the first two days of the event as well.



The Pro Women's race passes by KD1SM and the First Aid station.

As always, the USCF Officials, the Fitchburg Cycling Club officers, the Longsjo Race Committee officers, and several of the riders all expressed their thanks to the Hams for our assistance with the event.

NVARC Lantern Battery Challenge is ON!

Based on the response at the June meeting the NVARC Lantern Battery Challenge will be held starting this fall. All entries must be in and the entry fee of fifteen dollars paid by the close of the September meeting (Sept 17th). This is so the required batteries can be purchased and the official battery packs prepared for distribution to the entrants at the Oct meeting (Oct. 15th). A complete set of rules and an entry form will be available at the September meeting and on the Club website. I think this will be a fun event so I encourage you all to take part. Cu in September. 73 Bob W1XP

PSLIST

Every event needs communications volunteers

July

12 Hockomock YMCA Triathlon, Steve W3EVE
 25 Alzheimer's Memory Ride, Ralph KD1SM
 26 MA Triathlon, Winchendon, John N2YHK

August

15 Mt Washington Bicycle Hill Climb, Cliff N1RCQ

September

11-13 MS Challenge Walk, Jim KB1JKJ
 13 Hop-Boston Jimmy Fund Walk Steve W3EVE
 26 Berkshires MS Bike and Hike, Jim KB1JKJ
 27 Westminster 250 Anniversary Parade, Bill N1UZ

October
11 Boston BAA Half Marathon, Bob WA1IDA

See www.n1nc.org/Events for the latest

Board Meeting

Went over participants for this years Field Day

Cookout August 15th at K1NKR.

Jim N8VIM, Lynda N1PBL, and Joel W1JMM supporting Pepperell 4th of July Parade.

Discussion of upcoming meeting presentations. November and February meetings open.

Ralph submitted the Treasurers report for the newsletter. Starting up the book raffle with some new books.

Discussed the equipment donated to the club by Robert Jack N1OFX. John going to sort, test, and report back. John will send him thank you letter and we will add him to the newsletter list.

Some award opportunities discussed

Peanut butter cookies were served

In attendance were Ralph KD1SM, John KK1X, Peter N1ZRG, Stan KD1LE, Bob W1XP.

Adopt A Highway

Our next Road Cleanup July 19th. We'd like to see a few more participants. Eight is the right number to make quick work of the entire section we do. We are starting an hour earlier than in the past so the cleanup doesn't bite into the day as much so we are starting at 8:00 AM. Hope to see you there.

Treasurers Report

Income for June was \$30 in membership renewals, \$43 in bank interest, \$4 from ARRL membership renewals, and \$25.21 donated for Field Day. Expenses were \$17.60 for newsletter postage, \$119.80 for the outgoing QSL bureau, and \$62.24 for Field Day leaving a net expense of \$97.43 for the month.

We received a donation of \$250 from the Squanna-cook River Runners in recognition of the Club's help

with the Groton Road Race. This has been added to the Community Fund.

Current balances:

General fund	\$4,253.15
Community fund	\$2,949.41

As of 2 July we have 46 members who are current with their dues and 19 renewals outstanding. If you don't know your renewal date, please check the roster circulated at the monthly meeting or ask Ralph.

Remember, too, that the Club gets a commission on any new ARRL memberships or membership renewals that are submitted through Ralph.

Checks should be made payable to NVARC so that our commission can be deducted before we forward your membership to Newington.

Ralph KD1SM

FT8900 Programming

I have updated the "standard" frequency matrix for the FT8900 mobile radio programming software. The current frequency matrix is dated 090304. If your radio has been programmed in the last few years it has the date code in the alphanumeric display of memory location number one. If you tune to memory one and press the LOW button for two seconds the numeric frequency display will change to alphanumeric. The date code is year, month, and day. The previous version was 080225.

If you cannot select memory number one it means you programmed the radio yourself or it was programmed with the standard matrix before 2007.

I will bring the computer and programming cables to the meeting. If you want to get your rig memory updated bring it and the power cable.

ARRL Letter

ARRL TEACHERS INSTITUTE: "IT IS ELEMENTARY, IT IS ADVANCED, IT IS SOMETHING FOR EVERYONE"

Four sessions of the ARRL's Teachers Institute on Wireless Technology wrapped up in June <<http://www.arrl.org/FandES/tbp/ti.html>>. These sessions -- in Tucson, Arizona; Rocklin, California; Viera, Florida, and Berrien Springs, Michigan -- saw 52 educators complete the four day course. The Cali-

ifornia and Arizona sessions were held simultaneously, marking the first time that the ARRL has offered simultaneous sessions of the popular summer program for teachers. According to Education and Technology Program Coordinator Mark Spencer, WA8SME, the addition of two new TI instructors made it possible to hold two sessions at the same time. "With Miguel Enriquez, KD7RPP, and Nathan McCray, K9CPO, on board," Spencer said, "we are able to hold more sessions, and in turn, involve more teachers in the process of bringing wireless technology into their classrooms."

Tucson, Arizona -- June 15-18 At Pueblo Magnet High School in Tucson, Enriquez led a group of 16 local teachers through the four day curriculum that includes basic electronics, the science of radio, space in the classroom, microcontroller programming and basic robotics. The class included nine math teachers from Pueblo, three special education teachers from Pueblo, one 4th grade teacher from a feeder elementary school to Pueblo, two graduate students/teaching assistants in fields involving electronics from University Medical Center (University of Arizona teaching hospital) and one University of Arizona employee commissioned to work with area schools and recruit high school students into space, science and mathematics programs at the University of Arizona.

"The majority of the participants had expressed an interest in learning electronics," Enriquez said. "In the coming year, I plan on following up the introduction they received at the TI by teaching electronics as part of a professional development program."

Enriquez said that each of the teachers will refer students whom they believe will be interested in ham radio to his "Radio, Space and Wireless Technologies" class he will begin teaching this fall: "Several teachers who have that period as their planning period also stated they would drop by to see the students in action and perhaps even help teach!"

Enriquez said that there are 16 "really excited teachers in Tucson right now. I intend to do everything I can to get them all involved in the application of the knowledge and procedures they learned this week. The only way we can really make the Teachers Institutes ultra successful is to coordinate a cadre of teachers who understand and apply the knowledge and tools the Teachers Institutes provides. Teacher collaboration is essential toward this endeavor."

Rocklin, California -- June 15-18 Spencer conducted the Teachers Institute held at the Parallax facility in Rocklin. "This group is more geographically diverse

than the Tucson group," he said, "with teachers from nine states from coast to coast."

Since the Tucson and Rocklin sessions were held at the same time, Spencer said "we tried to connect the teachers in the Tucson session with the teachers in the California session via an AO-27 contact; satellites are part of the space in the classroom unit. Unfortunately, this was not successful due to unforeseen complications with accessing the satellite; however, a later attempt to demonstrate ham radio space technology was successful."

Viera, Florida -- June 23-26 Fourteen educators took part in the Teachers Institute in Florida, also led by Spencer. "This group was predominantly from the Southeastern US, but a few participants joined the group from Missouri and Virginia," he said. "The class was evenly split between male and female teachers. All grade levels were represented and six participants were either old-time hams or recently licensed in preparation for the Teachers Institute."

Spencer said to make the AO-27 satellite contact, they used call sign W1AW/4. "The weather even cooperated, and though hot and humid, the fox hunt outdoor activity went off without a hitch -- including a tornado warning that occurred the morning of the outdoor activities," he said.

"Thanks for everything. It was elementary it was advanced, it is something for everyone," one educator told Spencer. "I know I will be incorporating many of your topics into the classroom."

One of the participants summarized the experience simply: "This was the best in-service course that we have ever attended -- and we have attended a lot!"

Berrien Springs, Michigan -- June 29-July 2 McCray led 10 educators through the Teachers Institute at the Berrien Regional Education Service in Michigan. "I had a class that was half men and half women," he said. "Most were from the Midwest, but we did have two from New York State, one from California and one from South Carolina. We had representatives from all walks of the education world: Two elementary teachers, five junior high teachers, two high school teachers and one college professor. Only four were hams and two of them have expired licenses. The electronics knowledge level was low, but they were motivated and proved to be a joy to teach all week."

McCray said that the highlights of the week included a successful AO-27 contact and multiple contacts on 2 meters with local children who were attending a camp. "The work with the VOMs, protoboard and

building the boe-bots were also big hits," he said. "We also went quite deep with the 'What's a Micro-controller?' unit."

One of the teachers told McCray that the Teachers Institute has changed the way she will present her curriculum. "I have been inspired to pursue my Technician license and to add more hands-on electronics activities into my 9th grade physical science class," the teacher said. "I would also like to set up a ham station in my school."

Another teacher called the Teachers Institute a "most rewarding experience. There is so much I learned about robotics, weather and ham radio operation. I have so much information to take back to the classroom and share with my students and fellow staff members. Thank you for this opportunity!"

A session of the ARRL Teachers Institute wrapped up Thursday, July 9 in Dayton, Ohio. The last session will take place at ARRL Headquarters on July 27-30.

500 KHZ EXPERIMENTERS IN NORTH AMERICA, EUROPE GET ACTIVE

In the 500 kHz Experiment <<http://www.500kc.com/>> quarterly report for the period ending May 2009, Experiment Coordinator Fritz Raab, W1FR, reported that 21 stations are currently active. The FCC's Office of Engineering and Technology granted the WD2XSH experimental license to the ARRL in September 2006. In this quarter, the FCC only issued one new experimental license for 500 kHz, WF2XAU to Roy Croston, AB4OM. The FCC renewed WD2XGI to Mike Reid, WE0H.

In the spring of 2009, hams in the WD2XSH experimental group made one contact, bringing the total number of contacts to 336. Almost 500 reports were made to the 500 kHz Experiment's Web site, documenting 1051 hours of activity. Raab said more than 34,000 hours of activity has been logged on the Web site since the experiment's inception. Stations do not have to be members of the experimental team to post reception reports.

Raab said that due to increasing noise levels, activity has slowed some on the band, but "propagation conditions have remained generally good with a number of long distance receptions." He said that most of the quarter's activity came from WD2XSH/6, run by Pat Hamel, W5THT, of Long Beach, Mississippi, and WD2XSH/12, run by Mike Mussler, AI8Z, of Nederland, Colorado.

Individuals in nine other countries hold licenses to experiment in the 500 kHz band: Sweden, Germany, Czech Republic, United Kingdom, Belgium, Canada, Norway, Romania and Denmark.

To celebrate International Marconi Day on April 25, a Marconi official station using Marconi equipment completed a radio contact that was similar to those Marconi himself achieved many years ago. GB4FPR was operated from the Fort Perch Rock Marine Radio Museum near Liverpool <<http://www.gb4imd.org.uk/fortperch.htm>>. The operators used Marconi marine equipment and CW, receiving a 539 report from VO1MRC in St John's, Newfoundland <<http://www.ucs.mun.ca/%7Ejcraig/mrcn.html>>. GB4FPR was transmitting 1 W ERP on 502 kHz and receiving the Canadian station on 3566 kHz in this transatlantic crossband QSO.

On June 18, Norwegian coastal station LGQ in Rogaland and LM500LGN in Bergen made a QSO on 500 kHz. LM500LGN is a special heritage license arranged by the NRRL, Norway's IARU Member-Society, and Norkram. According to Raab, this is the first issuance of a license specifically for heritage operations.

Find out more information on the ARRL's 500 kHz Experiment in the July/August 2007 issue of QEX <<http://www.arrl.org/qex/2007/07/raab.pdf>>.

TENNESSEE TEEN HAM RESPONDS TO EMERGENCY, PERFORMS CPR

It was just another day, helping out at another event. It was the third year in a row that 16 year old Cody Anderson, KI4FUV, of Harriman, Tennessee, had volunteered to help out the Roane County Amateur Radio Club (RARC) with the Run for the Child event. But it was the first time that he would help save a life.

May 30 dawned with fog in the sky. Not too hot, but the temperature would reach the mid-80s before the Sun went down. All in all, a good day for a race. Anderson made his way to the race site at the Roane State Community College, set up his equipment at Checkpoint #2 and waited for the runners to pass by. "This year started off just like the past two years," he told his local newspaper, the Roane County News. Twenty minutes later, that all changed.

Twenty minutes later as the runners started their second pass around the marked course, Anderson saw one of the runners fall down. Unlike other runners who fall down on a course, this man did not get up. After waiting about 20 seconds, Anderson left Checkpoint #2 and quickly made his way over to the

downed racer. As he did so, he used his handheld transceiver to notify his fellow club members who were at the event, "Runner down."

Sheriff's deputies were also placed along the race route. One who was near Anderson and Checkpoint #2 saw what was going on and came to assist. As Anderson raced on foot, the deputy jumped in his patrol car and drove to the fallen runner. Both reached the fallen runner in about 20 seconds.

RARC Vice President Cliff Segar, KD4GT, said that they all heard Anderson racing toward the runner, "but we just assumed someone just simply tripped and fell." But after hearing Anderson say "Roll EMS" over the radio, he knew it was much more serious.

Another runner -- "I never got his name," Anderson said -- passed the area where the teen and the sheriff's deputy were kneeling next to the runner lying on the ground. The man stopped to help, checking out the man on the ground, who was still breathing. Anderson got back on the radio and told Bill Farnham, KI4FZT, at the command center that the first responders who were on site needed to get to where he was -- immediately. "The man who stopped, I just kind of let him take over," Anderson told the ARRL. "He seemed like he had a bit of medical training, and he started taking vital signs. I was talking to Bill on my radio, letting him know what was going on."

Then the fallen runner stopped breathing.

In February, Anderson took a CPR class that another RARC club member -- Phil Newman, KE4LSH -- had organized. It was the skills he learned at that class that came into play on May 30. He started giving the man mouth-to-mouth resuscitation; the other runner started chest compressions. "We did about three sets of CPR before the Roane County Rescue guys got to us, just a second or two later" Anderson told the ARRL.

"I'm just glad I was able to take the CPR training, else I don't know what I would have done or how I would have reacted," Anderson told the County Times. Anderson efforts, along with those of the unknown runner, kept the man alive long enough for EMS to arrive and use an electronic defibrillator to restart his heart. He was eventually transported to the University of Tennessee Medical Center via Lifestar helicopter. "Last I heard," Anderson said, "was that he was doing okay."

Anderson will begin his senior year at Rockwood High School this fall. When he was 11, he sat for his Technician exam and passed; he is now a General. He likes to help out with the Boy Scouts and give

back to the community through his SKYWARN and ARES(r) activities: "I volunteer five weeks every summer to help out at Camp Buck Toms, a Boy Scout camp located in Rockwood, Tennessee. Along with a few other volunteers from the local area, I teach the radio and electronics merit badge courses. Through the Amateur Radio Emergency Service, I've personally helped out with several severe weather outbreaks, the TVA Kingston ash spill in December 2008 and the Kingston Smokin' the Water 4th of July festival a few times."

He is modest about the events of May 30. "I took my first training class for CPR and AED in February 2009, thinking I would never have to use it," he told the ARRL. "On May 30, 2009 -- I used it. I would highly recommend that everyone takes some type of medical training."

Segar calls Anderson a hero. "You never know when training will possibly be the difference between life and death," he said. -- Some information from the Roane County News

2009 Flea Markets/Conventions

July
19 MIT
25 Yankee Peddler Hamfest, North Haven CT

August
8 Piscataquis ARC, St Albans ME
15 St Albans ARC, Swanton VT
16 MIT
16 NoBARC, Adams MA

September
12 Augusta ARA, Windsor ME
13 Western CT Hamfest, Newtown CT
19 76 Auction and Flea Market, Forestdale RI
20 MIT

October
11 Connecticut State Convention
16-17 NEAR Fest, Deerfield NH
18 MIT

November
FARAFest Falmouth ARA, Bourne MA

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Tell them you saw it in the Signal. Advertisers should contact the NVARC Treasurer for information.

Contest, DXpeditions and Special Events

The information for a DXpedition can be quite detailed and may include bands, dates, number of stations, and times of day they plan to work certain continents so I can not list it all here. But if a country or prefix is of interest you can get more information at www.425dxn.org.

Contests 2009

August

1-2 ARRL UHF Contest

15-16 ARRL 10 GHz and UP Contest

Sept

12-13 ARRL September VHF QSO Party

19-20 ARRL 10 GHz and Up Contest

October

10-11 ARRL International EMD Competition

November

7-8 ARRL November Sweepstakes CW

21-22 ARRL November Sweepstakes Phone

December

4-6 ARRL 160 Meter Contest

5-6 ARRL International EME Competition

12-13 ARRL 10 Meter Contest



Nashoba Valley Amateur Radio Club

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Vice President: Peter Nordberg N1ZRG

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Bob Reif: W1XP 2007-2010

Skip Youngberg K1NKR 2008-2011

Joel Magid W1JMM 2009-2012

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Librarian: Peter Nordberg N1ZRG

Property Master: John Griswold KK1X

N1NC Trustee: Bruce Blain K1BG

Meetings are held on the 3rd Thursday of the month

7:30 p.m. - Pepperell Community Ctr.

Talk-in 146.490 simplex

442.900 + 100Hz Repeater battery power

147.345 + 100 Hz Repeater

53.890 - 100Hz Repeater battery power

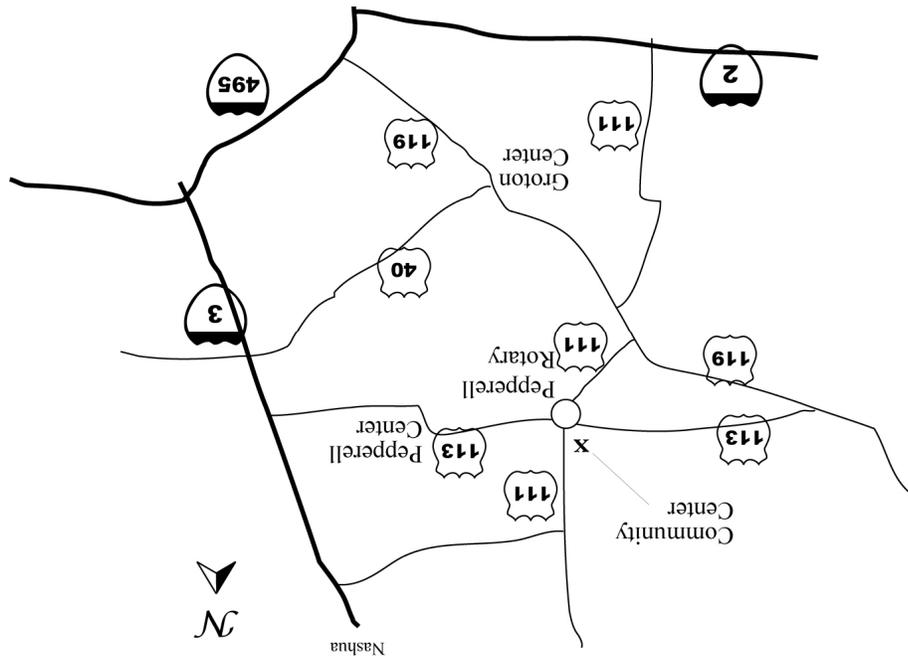
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