

de NINC

April 2011 Volume 20 Number 04

### This Month's Meeting

This month's meeting presentation is Digital TV Signals by Dan Pedtke KW2T

This month's meeting is Thursday April 21<sup>st</sup> 7:30 and will be held at the Community Center.

### Last Month's Meeting

Last month's meeting presentation was on Linux by Rod WA1TAC.

In attendance were Dennis K1LGQ, Leo K1LK, Ken K1NKR, Tom K1NNJ, Gary K1YTS, Larry KB1ESR, Peter KB1LZH, Stan KD1LE, Ralph KD1SM, John KK1X, Peter N1ZRG, Jim N8VIM, Roland NR1G, Paul NW1U, Bob W1XP, Rod WA1TAC, guests Mal K1MC, Jean KB1VDP

### From the President

Spring is upon us and hopefully some good weather. We already have the Groton Road Race behind us but there are many more events and activities coming up. We'd like to see as many members participate in them as possible. Up next is the first road cleanup for the year and not so very far beyond is Field Day and I know Roland is looking for help and operators.

Stan KD1LE

### NVARC Field Day 2011

Date: Sat. June 25, to Sun. June 26

Location: Heald Street Orchard Pepperell, MA

Lat, Long: 42.67, -71.6275

Entrance Lat, Long: 42.6715, -71.6282

Operating: 2 Alpha w/VHF/UHF and GOTA stations.

Hope you can join us at this year's field day: Bring your friends, neighbors, and relatives to this annual operating event. This is an opportunity to come out and operate with your fellow Hams in a non-threatening environment. As always there are many opportunities to operate.

As Field Day Chairman this year I plan to increase the publicity of the event and have also strived to involve as many NVARC members and their friends as possible. We will have all modes represented, SSB, CW, and Digital mode capable. With four stations there will be plenty of slots in the 24 hours of operation.

You can contact the Chairman, the Captains and/or the Coordinators if you are interested in helping out with setup, planning, operation, or takedown.

Field Day Chairman and Information Station (this is who you complain to):

- Roland (NR1G)

Station Captains:

CW Station: Bob (W1XP)

Phone Station: John (KK1X)

VHF/UHF Station: Skip (K1NKR)

GOTA Station: Bruce (K1BG)

Antenna Coordination:

Stan (KD1LE) and Bob (W1XP)

Infrastructure Captain:

Power & Networking: Jim (N8VIM)

N1MM Logging: Bruce (K1BG)

There are still plenty of things left to volunteer for. Please contact me if you are interested in planning and coordinating any of the meals. If you lean toward being an Elmer, then consider volunteering to

create and present an Educational Activity on Field day.

Any questions, comments or suggestions are appreciated and should be sent directly to me.

73, Roland, NR1G

### Groton Road Race



Jim N8VIM took on much of the Net Control duties this year. Sheltered by Jeanine N1QIT's tent structure we ran four nets each with its own radio and antenna.



The cruiser leads as the 10K race leaders approach net control.

There were approximately 580 runners in the 10 K race this year.



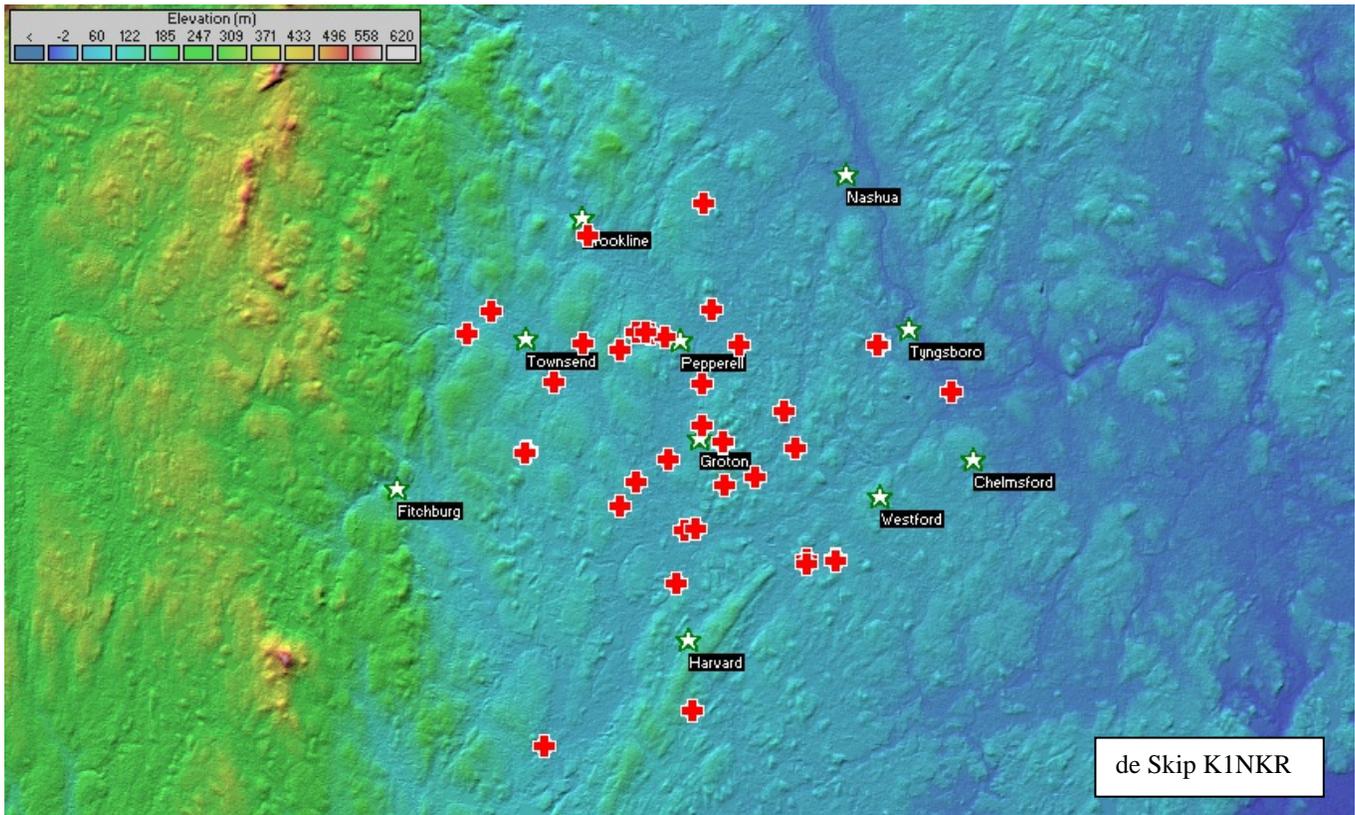
We were able to put together one of the largest Amateur Radio crews in the 19 years we have been supporting this event: Jerry AA2T, Darrel K1EJ, Gerry K1GCM, Tom K1JHC, Ken K1JKR, Skip K1NKR, Steve K1SMD, Pete K1SUB, Wil K1WD, Gary K1YTS, Karen KA1JVU, Larry KB1ESR, George KB1HFT, Rick KB1HNC, Nancy KB1KEF, Carsten KB1KTP, Ray KB1LRL, Steve KB1NMJ, Stan KD1LE, Ron KJ4UUG, John KK1X, Tim KQ1Y, Charlie KT1I, Steve N1BDA, Jim N1HTS, Rob N1ICB, Keith N1KLLK, Dan N1LLG, Phil N1MOR, Mary N1RKO, Bob N1RXV, Deryl N1SPA, Jim N8VIM, Art NF1A, Roland NR1G, Paul NW1U, Jim W1KQ, Bob W1XP, John WB2OSZ, Ken WO1N, and Earl WR1Y. The Squannacook River Runners and the Groton PD thank you all.

### NVARC QSL Sorting Boxes



The NVARC sorting boxes hit the road again to appear at the MARA April QSL Card Sort in Lunenburg.

## Member Demographics



### If It Isn't Fun, Why Do It?

With that question, Bruce K1BG ended his NVARC Lantern Battery Challenge Summary Form. I take this to imply that Bruce had fun. Great! Because that is what it is all about.

The number of log entries is up by 20% this year although there were stations that entered that didn't submit a log. We have several new entrants' this year so that is good. The Logs have been reviewed and we will have an awards ceremony at the meeting this month, so everyone come and enjoy the festivities.

If anyone has an idea on how we can make this event more interesting and fun please let me know.

73 Bob W1XP

### NVARC Net

The NVARC net meets on 442.900 N1MNX repeater Mondays at 8:00 PM. The net is for sharing infor-

mation and asking questions. Recent topics were a quiz on snow records, meeting programs, antenna suggestions for new hams

Bring your questions and topics for discussion so that we can all learn something.

Check in's for Monday April 04, 2011 NET @ 8:pm on 442.900MHz, shift +5MHz, PL 100

- |     |        |        |                       |
|-----|--------|--------|-----------------------|
| 1.  | N8VIM  | Jim    | Pepperell Net Control |
| 2.  | K1NKR  | Skip   | Tyngsboro             |
| 3.  | N1MNX  | Dave   | Pepperell             |
| 4.  | KD1LE  | Stan   | Pepperell             |
| 5.  | NW1U   | Paul   | Tyngsboro             |
| 6.  | KB1HFT | George | N. Chelmsford         |
| 7.  | WR1G   | Roland | Pepperell             |
| 8.  | W1LTN  | Dick   | Littleton             |
| 9.  | K1YTS  | Gary   | Townsend              |
| 10. | AB1CV  | Bob    | Groton                |
| 11. | KB1ESR | Larry  | Groton                |
| 12. | W1XP   | Bob    | Groton                |
| 13. | K1BG   | Bruce  | Harvard in the noise  |
| 14. | WA1VVH | Harry  | Pepperell             |

## PSLIST

Squannacook River Canoe/Kayak Race April 16th

Adopt-a-Highway cleanup starts - 24 April

See [www.n1nc.org/Events](http://www.n1nc.org/Events) for the latest information

## Board Meeting

Meeting back to the Community Center this month.

Road Cleanup starts this month April 24<sup>th</sup> at 8:00 AM

Skip went over the upcoming meeting presentations.

Bob discussed the Lantern Battery Challenge, awards, participation, and meeting presentation. Bob and Skip will write up the event and make a proposal to be presented to area clubs to invite them to participate in next year's event. Approved funds for cake and coffee.

Ralph gave the treasurers report which is reported in its own section. Several member renewals. April is the largest renewal month.

Roland discussed Field Day plans. The current plan is to run 2A with SSB, CW, and U/VHF/Satellite stations. Received permit for Heald St Orchard. Roland will submit article for newsletter. Gary will order the Portajohn. Field Day meeting at Roland's s after the Road Race. Received permit for Heald St Orchard.

Bruce working on a 2 X 6 antenna switch to share the antennas between the CW and SSB station.

Bob is working on a triplexer to share a tri-bander on 10-15-20 between three transmitters.

Gary reported Townsend Canoe Race April 16<sup>th</sup>. 11 people signed up so far. River is clear.

In attendance were Stan KD1LE, John KK1X, Ralph KD1SM, Bob W1XP, Bruce K1BG, Roland NR1G (Field Day Chairman), Larry KB1ESR, Gary K1YTS, Skip K1NKR.

## Adopt A Highway

Next clean up will be in April 24<sup>th</sup> at 800 AM. Meet at the river common.

## Treasurers Report

Income for March was \$60 in membership renewals and \$17 in ARRL membership renewals. Expenses were \$17.60 for Newsletter postage leaving a net income of \$59.40.

Current balances:

General fund	\$3,930.68
Community fund	\$4,336.41

As of 7 April we have 37 members who are current with their dues and 31 renewals outstanding. Please check your renewal status on the roster circulated at the monthly meeting or ask Ralph.

If you are not yet an ARRL member and are interested in joining, please consider letting Ralph send in the paperwork for you. The Club will buy the stamp and will get a commission from ARRL.

If your ARRL membership is ready for renewal, you can let Ralph mail it in for you and the Club will still get a (smaller) commission. ARRL membership checks should be made payable to NVARC; we deduct our commission before we forward your paperwork to Newington.

Ralph KD1SM

## ARRL Letter

### Public Service: Hams Provide Communications Support During West Texas Wildfires

When wildfires swept across the West Texas towns of Fort Davis and Marfa, hams were on hand to provide communications support.

On April 9 at 4:15 PM (CDT), ARRL West Texas District 5 Emergency Coordinator Bob Ward, WA5ROE, received a call from Jeff Davis County (Texas) Fire Marshal Stewart Billingsley, N5HXZ. Billingsley informed Ward that a fire had begun in the West Texas town of Marfa and was rapidly approaching Fort Davis, 22 miles to the northeast.

"Stewart asked me to call the National Weather Service to get it on the alert system, as well as the AM and FM radio stations in Alpine," Ward told the ARRL. "He wanted it broadcast over the radio stations that he needed the Mano Prieto and Fort Davis Estates sub-divisions evacuated. People in the area know that when an emergency happens, they need to tune into these stations for the latest information.

This was the Rock House Fire. At the same time, another fire, the Roper Fire, had started on the eastern edge of Alpine."

### **On the Air: World Amateur Radio Day Set for Monday, April 18**

The International Amateur Radio Union and its more than 160 Member-Societies that represent countries around the world will celebrate World Amateur Radio Day on April 18. The theme for this year's celebration is Amateur Radio: The First Technology-Based Social Network. Long before the Internet and smart phones, Amateur Radio operators have been talking, texting and sharing for decades. But unlike those commercial services, Amateur Radio continues to attract people worldwide by providing international communications for free. And because it does not need pre-established supporting infrastructure, these radio-savvy "amateurs" can reach out to friends in every corner of the world, as well as into space.

### **On the Air: Ofcom to Issue Special Temporary Call Signs for Royal Wedding**

Ofcom is issuing special temporary call signs to British amateurs to commemorate the April 29 nuptials of HRH Prince William of Wales and Miss Catherine Middleton.

If you are a prefix hunter -- or you just get caught up in the pageantry that a Royal Wedding can bring -- then take note: Ofcom, at the request of the Radio Society of Great Britain (RSGB), will issue special temporary call signs that British amateurs may use from April 29 through May 9, 2011, commemorating the marriage of HRH Prince William of Wales and Miss Catherine Middleton. Amateurs in the United Kingdom who choose to apply for these special call signs will be using GR, MR and 2R prefixes during this time to commemorate the wedding.

### **From the Hearts: Providing a Way for Others to Communicate with the ISS**

These Sacred Hearts students download information and confirm radio frequencies to prepare for a telebridge contact with the International Space Station.

In America and around the world, students use Amateur Radio to talk to astronauts on the International Space Station, orbiting high above the Earth -- and it's the students at an all-girls school in Honolulu, Hawaii who help make the connection. Sacred Hearts Academy is a telebridge station for the Amateur Radio on the International Space Station pro-

gram (ARISS). ARISS is a NASA-sponsored education activity where astronauts and cosmonauts use Amateur Radio equipment aboard the ISS to talk with students around the world. Telebridge stations, like the one at Sacred Hearts, connect schools, museums and others without their own Amateur Radio equipment to astronauts in space.

### **This Week on the Radio**

April 15 -- NCCC Sprint  
April 15-16 -- Holyland DX Contest  
April 16 -- Feld Hell Sprint; TARA Skirmish Digital Prefix Contest; ES Open HF Championship; EU Spring Sprint (SSB)  
April 16-17 -- Michigan QSO Party; Ontario QSO Party; YU DX Contest; CQ Manchester Mineira DX Contest; EA-QRP CW Contest  
April 16-24 -- ARLHS Annual Spring Lites QSO Party  
April 17 -- ARRL Rookie Roundup (SSB)  
April 18 -- Run for the Bacon QRP Contest  
April 19 -- 222 MHz Spring Sprint (local time)

### **Next week:**

April 22 -- NCCC Sprint Ladder 0230Z-0300Z, Apr 22  
April 23-24 -- South Dakota QSO Party; 10-10 International Spring Contest (Digital); SP DX RTTY Contest; Helvetia Contest  
April 25 -- Low Power Spring Sprint  
April 27 -- SKCC Sprint; 432 MHz Spring Sprint (local time)  
April 27-28 -- CWops Mini-CWT Test

All dates, unless otherwise stated, are UTC. See the ARRL Contest Branch page, the ARRL Contest Update and the WA7BNM Contest Calendar for more info. Looking for a Special Event station? Be sure to check out the ARRL Special Event Stations Web page.

### **Amateur Radio in the Classroom: Alabama High Schools Successfully Launch High Altitude Balloon**

The Pell City and St Clair County High School's joint balloon launch was a great success. The balloon was launched from the St Clair County Airport in Pell City, Alabama into a brisk wind at 2 PM on April 2. The balloon carried a variety of experiments ranging from materials, plastic sticks, silly putty, several varieties of seed, batteries, film and cameras, radio location equipment and a radio beacon announcing the balloons flight, as well as a collection of worms. The worms were given physicals by a St Clair Coun-

ty High School science class prior to the flight. They returned home in apparent good health and have made reservations for the next flight. The balloon made a rapid and steady ascent to 94,449 feet and, after bursting, landed near Woodbury, Georgia. The balloon landed in the middle of an open field and was quickly retrieved by Amateur Radio operators from the Auburn/Alexander city area.

### **ARRL in Action : What Have We Been Up to Lately? Compiled by ARRL News Editor S. Khrystyne Keane, K1SFA**

This feature is a concise monthly update of some of the things ARRL is doing on behalf of its members. This installment -- which covers the month of March -- looks at how the ARRL and its members are responding to HR 607, various filings made by the ARRL to the FCC, the ARRL's Executive Committee meeting, reports from the Official Observer Desk and more.

### **Public Service : Western Pennsylvania Hams Respond as Tornado Sweeps Through Area**

This tornado -- as seen just outside of Pittsburgh -- swept through Western Pennsylvania on March 23, destroying at least 30 homes and damaging another 90.

At approximately 4:30 on the afternoon of Wednesday, March 23, severe thunderstorms started to roll into Westmoreland County, Pennsylvania, producing golf ball-sized hail and heavy winds. Members of the Westmoreland County Public Service/ARES® group began to meet on the W3CRC repeater in Derry, Pennsylvania, which serves as the main ARES®/SKYWARN repeater in Westmoreland County. Soon after, the National Weather Service issued a tornado warning for the area and the Public Service Net was opened formally at 5 PM. Walter Bashaw, W3ZEH, began taking check-ins and reports of severe weather, relaying them to the NWS in Pittsburgh.

### **Amateur Radio in Space: Two Astronauts Get Their Ham Ticket**

Chris Cassidy, KF5KDR (left), and Luca Parmatano, KF5KDP, will journey to the International Space Station in 2013.

Even though they aren't scheduled to go to the International Space Station until 2013, two astronauts -- Chris Cassidy and Luca Parmitano -- are now licensed amateurs. Cassidy, who received the call sign KF5KDR, is scheduled to head to the ISS in

March 2013 as part of Expedition 35. Parmitano -- an Italian from the European Space Agency -- is KF5KDP; he goes to the ISS three months later in May, as part of Expedition 36.

"Our aim is to have at least one crew member licensed and trained in on-air protocol, who is somewhat excited about ham radio and the Amateur Radio on the International Space Station program, per expedition," explained ARRL ARISS Program Manager Rosalie White, K1STO. NASA ISS Ham Radio Project Engineer Kenneth Ransom, N5VHO, told the ARRL that both Cassidy and Parmitano are "excited and interested in the educational aspects of Amateur Radio on board the ISS."

### **ARRL Nebraska Section Introduces "Elmer Squad"**

The Nebraska Elmer Squad made its first official appearance earlier this month at the ARRL Nebraska State Convention in Lincoln. Darwin Piatt, W9HZC, and Darrel Swenson, K0AWB, were on hand to answer questions about the Squad's mission and plans. According to ARRL Nebraska Section Manager Art Zygielbaum, K0AIZ, the Squad is gathering a list of volunteer Elmers throughout the state who are willing to assist not only new Amateur Radio operators, but current operators who need some technical assistance.

Darwin Piatt, W9HZC (left) and Darrel Swenson, K0AWB, discuss the ARRL Nebraska Section's "Elmer Squad" with ARRL Field Organization Supervisor Steve Ewald, WV1X (standing) at the ARRL Nebraska State Convention earlier this month.

"Mentoring of new or prospective hams will be an ongoing part of the mission," Zygielbaum told the ARRL. "The intent is to have Elmers participate in their local area radio clubs and give presentations on various subjects relating to Amateur Radio." Nearly a dozen hams signed up at the State Convention to be a part of the Elmer Squad.

Piatt and Swenson said that they believe that people should remember that Amateur Radio is a hobby -- and it should be fun. Both men are QRP operators and builders; part of their enjoyment comes from passing on the fun of building to others.

The Elmer Squad will be traveling around Nebraska this summer and fall, giving presentations and signing up more Elmers. In addition, Piatt and Swenson are working on a Nebraska Elmer Squad website. Zygielbaum said that this will provide a central contact point to match Elmers with those who would like

assistance. Once the site is up and running, the URL will be posted on the ARRL Nebraska Section website.

"Our motto is 'Hey, this is a hobby -- it is supposed to be fun!'" Zygielbaum explained. "We're looking for good people to help us keep it that way."

### **New Mars Rover to Feature Morse Code**

As the Jet Propulsion Laboratory (JPL) builds the next Mars rover -- this one is named Curiosity -- to deploy to the red planet in the fall of 2011, they're having a little fun with it. Back in 2007 when the Curiosity team was putting together the rover, its wheel cleats had a raised pattern with the letters "JPL," leaving a little stamp of the rover's birthplace everywhere it rolled. "At the time, I asked whether the real rover would have those wheels, and they said, no, they weren't going to get to advertise JPL with each turn of each of the rover's six wheels; the real rover would have some other pattern," said Emily Lakdawalla of The Planetary Society in her blog. Lakdawalla is the organization's Science and Technology Coordinator.

JPL's Mars Science Laboratory Lead Engineer Jaime Waydo with Curiosity -- and the rover's old wheels.

Lakdawalla said that there is nothing special about the shapes of the markers in Opportunity's wheels; they are just square holes through the wheels through which the wheels were bolted to the lander during cruise and landing. "Opportunity is the name of the rover that went to Mars back in 2003. "But Curiosity didn't need holes in its wheels for attaching to any lander -- there isn't one. So the engineers got to make the markers in any shape they wanted to."

But in March 2011, she saw a video of the rover as it is today: "I had to chuckle at those 'visual odometry markers' [on its tires]. Before I explain why, I'll point out that they really are useful things to have in rover wheels. The repeating pattern of the 'visual odometry markers'...makes it fairly easy for both the rover and human operators to determine visually how far the rover has roved using rear-view imagery."

The tires on the new Mars rover -- set to launch in November or December 2011 -- will display the letters JPL in Morse code.

So what pattern did JPL choose to put on Curiosity's wheels? One that Lakdawalla called "very amusing. The holes are in a pattern of short squares and longer rectangles -- almost like dots and dashes.

Morse code." And what does it spell out in Morse code? JPL.

According to JPL, Curiosity is about the size of a small SUV -- 10 feet long (not including the arm), 9 feet wide and 7 feet tall -- or about the height of a basketball player -- and weighs 2000 pounds. It features a geology lab, rocker-bogie suspension, a rock-vaporizing laser and lots of cameras. Curiosity will search areas of Mars for past or present conditions favorable for life and for conditions capable of preserving a record of life. It is set to launch between November 25-December 18, 2011 from Cape Canaveral, Florida and will arrive on Mars between August 6-20, 2012. The prime mission will last one Mars year, or about 23 Earth months

### **Public Service: Radio Amateurs in Japan Still Providing Communications Support**

Amateur Radio operators became involved in the rescue effort soon after the March 11 8.9 earthquake and devastating tsunami that hit northern Japan, and that effort continues nearly two weeks later. "In the early stage following the earthquake and tsunami, several radio amateurs were able to activate their stations with car batteries or small engine generators, despite the electric power outages," IARU Region 3 Secretary Ken Yamamoto, JA1CJP, told the ARRL. "They transmitted rescue requests and information on the disaster situation -- including refugee centers and their needs -- and the availability of basic infrastructures, such as electricity, water and gas supplies." After the earthquake and tsunami, there was no electricity, water or gas service in many of the affected areas.

In his report to the ARRL, Yamamoto said that the Japan Amateur Radio League (JARL) activated JA1RL -- its headquarters station in Tokyo -- soon after the earthquake. With the help of many other amateurs, it also activated its regional headquarters station JA3RL in Osaka to communicate with the amateurs in the damaged areas, including its Tohoku headquarters station JA7RL in Sendai. "The communications were mostly on the 7 MHz band in daytime and the 3.5 MHz band at night," Yamamoto explained. "Short range communications were also made on the 144 and 430 MHz bands. The information gathered through Amateur Radio communications was reported to the rescue and disaster relief organizations for their appropriate deployment. Some other amateurs accepted health-and-welfare inquiries from the [impacted] areas and they posted the information on the Internet."

## Public Service: Amateurs Assist with Ocean Rescue

An elderly sailor and his dog were rescued off the coast of Ensenada, Mexico after a ham in Texas heard his distress call on 14.300 MHz.

At 10:04 AM PDT on March 21, Rex Weinheimer, KC5AGO, of Stonewall, Texas -- a member of the Maritime Mobile Service Net (MMSN) -- heard and responded to a "weak and broken MAYDAY call." The call was from the sailing vessel Gloria Jean, a 30 foot sailboat that was in the Pacific Ocean about 120 miles west of Ensenada, Mexico. Weinheimer heard the distress call on 14.300 MHz, a frequency monitored by the MMSN.

MMSN Net Controller Lee Langford, KG4DZN, told the ARRL that through the combined efforts of several net stations, the net was able to ascertain the situation and the position of the stricken vessel. MMSN operators contacted both the US and Mexican Coast Guards and both services deployed assets to the scene. The US Coast Guard dispatched an MH-60 Jayhawk helicopter from San Diego and a C-130 Hercules plane from Sacramento. According to the USCG, the Gloria Jean had no propulsion, food, water or safety equipment.

## Legislative News: ARRL Asks Members to Write in Opposition to HR 607

The ARRL is asking its members to contact their US representatives in opposition to the sections of HR 607 that could affect the Amateur Radio Service allocation at 420-440 MHz. HR 607 -- The Broadband for First Responders Act of 2011 -- would address certain spectrum management issues, including the creation and maintenance of a nationwide Public Safety broadband network. It was introduced into the US House of Representatives February 10.

ARRL Regulatory Information Manager Dan Henderson, N1ND, clarified that the League opposes HR 607 in its present form. "We do not oppose the concept of dedicated spectrum for the development of a Public Safety infrastructure and wireless network. We object to the bill because of the inclusion of 420-440 MHz as part of the spectrum to be swapped and auctioned to commercial users." You can find a sample letter, "How to Find your Representative" and the contact information for ARRL's legislative consultant, Chwat & Co.

## Upcoming Contests

Upcoming contest information - domestic

Credit to Bruce Horn WA7BNM for all information.

For more information visit

<http://www.hornucopia.com/contestcal/contestcal.html>

10-10 Int. Spring Digital 0001Z, Apr 23 to 2359Z, **Apr 24**  
<http://www.ten-ten.org/Forms/QSOPartyRulesRevised.pdf>

Nebraska QSO Party 1700Z, Apr 23 to 1700Z, **Apr 24**  
<http://www.hdx.net/neqso/neqso.htm>

SKCC Sprint 0000Z-0200Z, **Apr 27**  
<http://www.skccgroup.com/sprint/sks/>

QRP to the Field 1500Z, **Apr 30** to 0300Z, May 1  
<http://www.zianet.com/qrp/QRPTTF/ttf.html>

Florida QSO Party 1600Z, **Apr 30** to 0159Z, May 1 and 1200Z-2159Z, May 1  
<http://www.floridaqsoparty.org/rules.html>

### May 2011

ARS Spartan Sprint 0100Z-0300Z, **May 3**  
[http://adventure-radio.org/wiki/index.php?title=Spartan\\_Sprint\\_Rules](http://adventure-radio.org/wiki/index.php?title=Spartan_Sprint_Rules)

10-10 Int. Spring Contest, CW0001Z, **May 7** to 2359Z, May 8  
<http://www.ten-ten.org/Forms/QSOPartyRulesRevised.pdf>

7th Call Area QSO Party 1300Z, **May 7** to 0700Z, May 8  
<http://www.codxc.com/new/Page.asp?Content=DRYLAND7S&Page=3>

Indiana QSO Party 1600Z, **May 7** to 0400Z, May 8  
<http://www.hdxcc.org/inqp/rules.html>

New England QSO Party 2000Z, **May 7** to 0500Z, May 8 and 1300Z-2400Z, May 8  
<http://www.neqp.org/rules.html>

SKCC Weekend Sprint 0000Z-2400Z, **May 8**  
<http://www.skccgroup.com/sprint/wes/>

NAQCC-EU Monthly Sprint 1800Z-2000Z, **May**  
<http://naqcc-eu.org/SprintHelp/SprintRules.pdf>

CWops Mini-CWT Test 1100Z-1200Z, **May 11** and 1900Z-2000Z, May 11 and 0300Z-0400Z, **May 12**  
<http://www.cwops.org/onair.html>

FISTS Spring Sprint 1700Z-2100Z, **May 14**  
<http://www.fists.org/sprints.html>

NAQCC Straight Key/Bug Sprint 0030Z-0230Z, **May 19**  
<http://naqcc.info/sprint201112mw.html>

Feld Hell Sprint 1500Z-1700Z, **May 20** and 1800Z-2000Z, May 20  
<http://sites.google.com/site/feldhellclub/Home/contests>

SKCC Sprint 0000Z-0200Z, **May 25**  
<http://www.skccgroup.com/sprint/sks/>

CQ WW WPX Contest, CW 0000Z, **May 28** to 2400Z, May 29  
<http://www.cqwp.com/rules.htm>

ARCI Hootowl Sprint 2000 local - 2400 local, **May 29**  
<http://www.qrparci.org/content/view/1518/118/>

MI QRP Memorial Day CW Sprint 2300Z, **May 29** to  
0300Z, May 30  
<http://www.qsl.net/miqrclub/contest.html>

#### June 2011

10-10 Int. Open Season PSK 0000Z, **Jun 4** to 2400Z, Jun  
5 <http://www.ten-ten.org/oseason/oseason.html>

Alabama QSO Party 1600Z, **Jun 4** to 0400Z, Jun 5  
<http://www.alabamagsoparty.org/2010/2010Rules.pdf>

NAQCC-EU Monthly Sprint 1800Z-2000Z, **Jun 8**  
<http://naqcc-eu.org/SprintHelp/SprintRules.pdf>

ARRL June VHF QSO Party 1800Z, **Jun 11** to 0259Z, Jun  
13 <http://www.arrl.org/june-vhf-qso-party>

NAQCC Straight Key/Bug Sprint 0030Z-0230Z, **Jun 15**  
<http://naqcc.info/sprint201112mw.html>

West Virginia QSO Party 1600Z, **Jun 18** to 0200Z, Jun 19  
<http://www.qsl.net/wvsarc/2010wvqp/wvqp2010.htm>

Kid's Day Contest 1800Z-2359Z, **Jun 18**  
<http://www.arrl.org/kids-day>

NAQCC Straight Key/Bug Sprint 0030Z-0230Z, **Jun 22**  
<http://naqcc.info/sprint201112mw.html>

ARCI Milliwatt Field Day 1800Z, **Jun 25** to 2100Z, Jun 26  
<http://www.qrparci.org/content/view/6870/118/>

ARRL Field Day 1800Z, **Jun 25** to 2100Z, Jun 26  
<http://www.arrl.org/field-day>

73 de KK1X

### 2011 Flea Markets/Conventions

February 26 -- ARRL Vermont State Convention,  
Colchester, Vermont

### Advertisements

Your advertisement could be here.

Tell them you saw it in the Signal. Advertisers  
should contact the NVARC Treasurer for infor-  
mation.



## Nashoba Valley Amateur Radio Club

PO Box # 900  
Pepperell Mass 01463-0900

<http://www.n1nc.org/>

President: Stan Pozerski KD1LE  
Vice President: Bruce Blain K1BG  
Secretary: John Griswold KK1X  
Treasurer: Ralph Swick KD1SM  
Board Members:

Skip Youngberg K1NKR 2008-2011  
Joel Magid W1JMM 2009-2012  
Bob Reif: W1XP 2010-2013

Editor: Stan Pozerski KD1LE  
Emergency Coordinator: Larry Swezey KB1ESR  
Photographer: Ralph Swick KD1SM  
PIO: Dave Peabody N1MNX  
Librarian: Peter Nordberg N1ZRG  
Property Master: John Griswold KK1X  
N1NC Trustee: Bruce Blain K1BG  
Annual membership dues are \$15; \$20 for a family  
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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