



ARES COMMUNICATOR

Information for Scott County Amateurs



September, 2011

Accurate, Reliable Emergency Communications

Volume 11, Number 9

Hurricane Irene

ARES on the scene

ARRL Letter Sep1,2011

Hurricane Irene — the first major hurricane of the 2011 hurricane season — left extensive flood and wind damage along its path through the Caribbean, the East Coast of the United States and as far north as Atlantic Canada. Beginning on August 20 as then-Tropical Storm Irene headed toward Puerto Rico, radio amateurs were already on alert.

Irene first made landfall in the US as a Category 1 storm on the morning of Saturday, August 27 on North Carolina's Outer Banks. In preparation, ARRL Emergency Preparedness Manager Mike Corey, W5MPC, activated the ARRL HQ Emergency Response Team (HQERT). On Tuesday, August 23, this team of ARRL HQ staffers began monitoring various nets and providing support to the affected Field Organizations from W1AW, the Hiram Percy Maxim Memorial Station. Two days later, the HQERT went into active mode.

Radio amateurs at W1AW provided reports to the Hurricane Watch Net (HWN) and the Voice over Internet Protocol Weather Net (VOIPWX), who in turn relayed these reports to WX4NHC, the Amateur Radio Station at the National Hurricane Center in Miami. W1AW also checked in to nets run by the *Salvation Army Team Emergency Radio Network* (SATERN) and the East Coast Amateur Radio Service (ECARS). Hams at W1AW were also active reporting into the National Weather Service office in Taunton, Massachusetts.

“We began monitoring Irene and communicating with Section leadership several days before the storm made
Irene cont'd on page 2



Patriot's Day
remembering September 11, 2001

ARES Activities

Weekly Net Monday 7 PM 146.535 mhz (s)
Breakfast Saturday, September 10th
Digital Monday September 12th

ARES Nets

MN ARES Phone Net
6:00PM Sunday Freq: 3.568 mhz
ARRL MN Phone Net
12:00p, 4:30p CST Daily Freq: 3.568 mhz
ARRL MN CW Net
6:30p, 9:50p CST Daily Freq: 3.568 mhz

NETS WITH OUR NEIGHBORS

North Dakota: Daily 3.937 mhz 6:30pm
South Dakota: Daily 3.870 mhz 6:00pm
Wisconsin: Daily 3.985 mhz 5:30pm
Iowa: Daily 3.970 mhz 12:30/5:30pm

The ARES COMMUNICATOR is published for the benefit of Amateur Radio Operators in Scott County and other interested individuals.

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Reader submissions encouraged!

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landfall,” Corey said. “The level of preparedness from the amateur community was quite high. Hams were ready to go when called on to assist their communities.”

W1AW Station Manager Joe Carcia, NJ1Q said that activity at W1AW was centered on the voice nets that were active on 80, 40 and 20 meters: “In addition, W1AW was connected to the ‘WX_TALK’ EchoLink weather net. We also monitored the 2 meter Connecticut ARES net, and W1AW’s EchoLink conference server — normally used by hams to monitor the station’s daily broadcasts — was made available to those in the ARRL Field Organization who were in Irene’s path.”

Carcia said that W1AW’s IRLP node, D-STAR and Winlink were also monitored during the storm, but saw no traffic. W1AW was on the air for 31 hours, from 7 AM on Saturday, August 27 through 2 PM the next day, utilizing all three studios. The ARRL is still in the process of gathering reports from the affected 17 Sections.

“I would like to thank all of those involved in the response to Irene. The ARES® members, Field Organization leaders, net control stations and the amateurs assisting our served agencies all did an amazing job,” Corey said. “I also have to say thanks to those that helped staff W1AW over the weekend. They made it possible to stay in touch with those in the field and assist locally as Irene impacted Connecticut. Thank you all for a job well done.”

New York - In Greene County, New York — located about 25 miles south of Albany, the state capital — hams are currently active, providing communication support to the County Emergency Operations Center. According to Greene County Emergency Coordinator Len Signoretti, N2LEN, Irene “took out” portions of the towns of Prattsville and Windham. “We’ve seen a tremendous amount of property damage throughout the county,” Signoretti told the ARRL. “With the help of hams from Greene, Ulster, Rensselaer, Dutchess and Columbia Counties, we are supporting the Greene County Emergency Services.”

Signoretti explained that when the County Emergency Services activated the Greene County ARES group, he called Columbia County Emergency Coordinator Tom Cody, WE2G, to ask if he could borrow the Columbia County ARES® emergency communications trailer. “We have that trailer in Greene County, supporting command centers in the towns of Jewett, Ashland and Lexington, as well as in the village of Tannersville” he explained. “We expect to be providing support through Sunday, September 4.”

North Carolina - North Carolina ARRL Section Manager Bill Morine, N2COP, told the ARRL that his home was a mere 60 miles west of the eye of the storm: The storm passed us by about 4 AM on Saturday. We lost power at that point for about five minutes, but by morning, 54 percent of homes in Wilmington had lost power. Irene made landfall as a Category 1 storm near Morehead City, North Carolina, which is about 90 miles northeast of me. There is considerable flooding and damage 100-200 miles northeast of me. North Carolina ARES was used minimally, as most County Emergency Operations Centers kept power and commercial communications. Irene is my eighth hurricane in the 20 years I’ve lived by Wrightsville Beach, where many a Weather Channel reporter does their reports.”

Massachusetts - The Emergency Operations Center for the City of Boston requested assistance from radio amateurs. According to ARRL Eastern Massachusetts Official Emergency Station Mike Neilsen, W1MPN, this is the first time ever that this has happened in a storm situation. Neilsen told the ARRL that WX1BOX, the Amateur Radio station at the NWS office in Taunton, was active during the storm.

“The SKYWARN operations at the Taunton NWS office was secured on Sunday, August 28, as were three ARES operations — in Bridgewater in Southeastern Massachu-

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Test Your NIMS Knowledge

Every incident must have a verbal or written Incident Action Plan. The purpose of this plan is to provide all incident supervisory personnel with direction for:

- A. Taking actions based on the objectives identified in the plan during the operational period.
- B. Obtaining and maintaining essential personnel, equipment, and supplies.
- C. Monitoring the number of resources that report to any one supervisor.
- D. Maintaining the documentation and tracking resources assigned to the incident.

Check next month's ARES Communicator for the solution

August NIMS Knowledge Solution

At which incident facility are resources kept to support incident operations if a Base is not accessible to all resources?

- B. Camp



Irene - cont'd from page 2

sets, one on Cape Cod and another in Brookline, just outside of Boston,” he said. “Eastern Massachusetts ARES remained in a stand-by status until Tuesday, awaiting deployment to Western Massachusetts.”

Neilson told the ARRL that hams in the ARRL’s Eastern Massachusetts Section supported shelters operated by the American Red Cross in Salem, Dedham, Attleboro, Weymouth, Bridgewater, Falmouth and on Nantucket Island, as well as seven shelters on Cape Cod and another shelter at Otis Air Force Base.

Throughout its path, Irene caused widespread destruction and at least 54 deaths. But close on Irene’s heels, forecasters are keeping an eye on Hurricane Katia, currently a Category 1 storm. As of 11 AM EDT on Thursday, September 1, Katia is located about 1050 miles east of the Northern Leeward Islands; it is moving west at 18 MPH, with maximum sustained winds topping 75 MPH with higher gusts. No coastal watches or warnings are currently in effect. Forecasters say that they expect Katia to strengthen in the next 48 hours and could become a major hurricane by this coming weekend. The NHC defines a hurricane as a major hurricane when it reaches Category 3.

BREAK - OVER

Take a Dip in the General Pool

Time to test your knowledge of the information covered by the General Class license exam. Each month we’ll take a look at a selection from the question pool. Here is this month’s sample:

1. What is the maximum symbol rate permitted for RTTY or data emission transmission on the 20 meter band?
 - A. 56 kilobaud
 - B. 19.6 kilobaud
 - C. 1200 baud
 - D. 300 baud
2. What is the maximum symbol rate permitted for RTTY or data emission transmissions on the 2 meter band?
 - A. 56 kilobaud
 - B. 19.6 kilobaud
 - C. 1200 baud
 - D. 300 baud

(Check next month's issue of the ARES Communicator for the answer.)

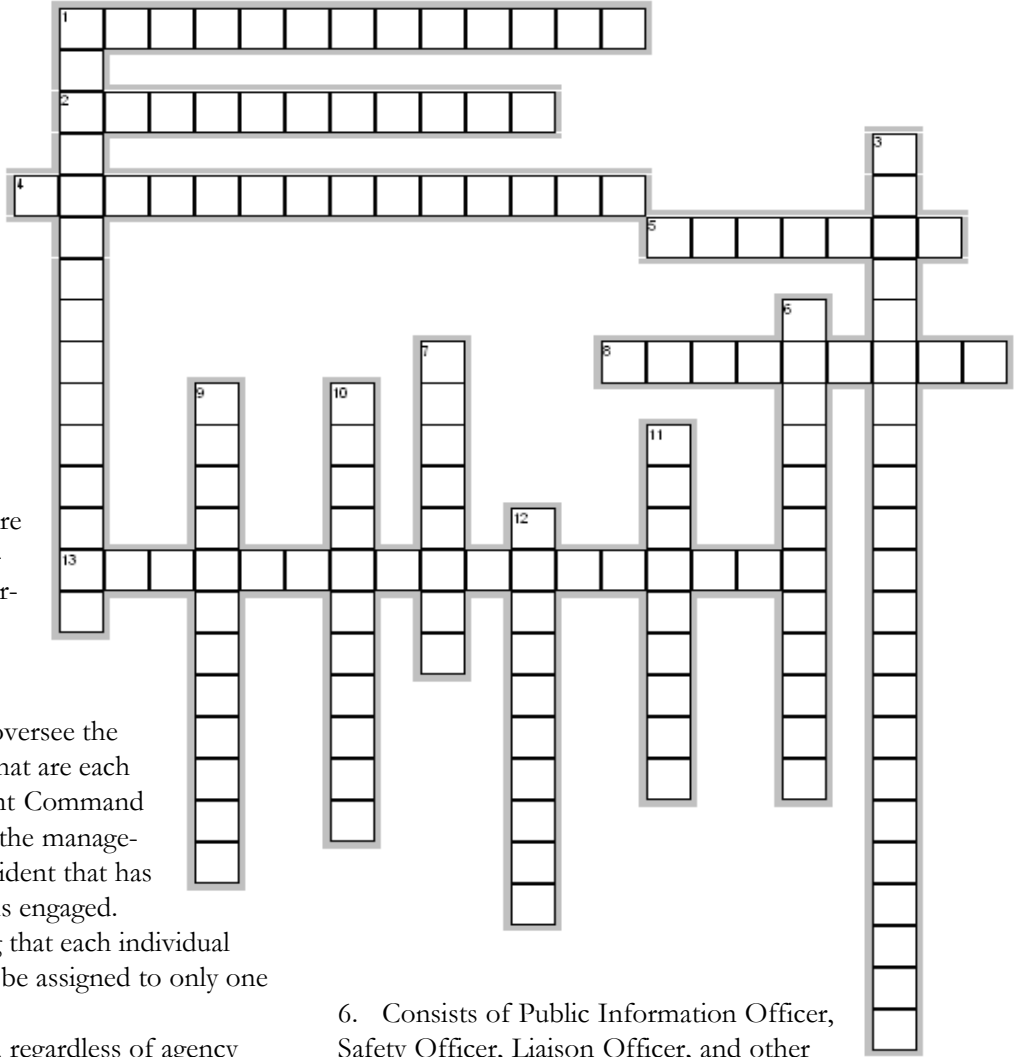
August General Pool Answer

1. What is the maximum transmitting power a station with a General Class control operator may use on the 28 MHz band?
 - C. 1500 watts PEP output
2. On which of the following band segments may you operate if you are a Technician Class operator and have a CSCE for General Class privileges?
 - C. On any General or Technician Class band segment.

BREAK - OVER

Back to School





Across

1. Organizations and entities that are not part of any governmental structure. Includes for-profit and not-for-profit organizations, formal and informal structures, commerce, and industry.

2. An organization established to oversee the management of multiple incidents that are each being handled by a separate Incident Command System organization or to oversee the management of a very large or evolving incident that has multiple incident management teams engaged.

4. Principle of management stating that each individual involved in incident operations will be assigned to only one supervisor.

5. Process in which all responders, regardless of agency affiliation, must report in to receive an assignment in accordance with the procedures established by the Incident Commander.

8. Activity that involves an act dangerous to human life or potentially destructive of critical infrastructure or key resources; is a violation of the criminal laws of the United States or of any State; and is intended to intimidate or coerce the civilian population, or influence or affect the conduct of a government by mass destruction, assassination, or kidnapping.

13. The time scheduled for executing a given set of operation actions, as specified in the Incident Action Plan. Can be of various lengths, although usually they last 12-24 hours.

Down

1. The Section responsible for the collection, evaluation, and dissemination of operational information related to the incident, and for the preparation and documentation of the Incident Action Plan.

3. A facility established to coordinate all incident-related public information activities. It is the central point of contact for all news media.

6. Consists of Public Information Officer, Safety Officer, Liaison Officer, and other positions as required, who report directly to the Incident Commander. They may have an assistant or assistants, as needed.

7. Immediate actions to save lives, protect property and the environment, and meet basic human needs. Response also includes the execution of emergency plans and actions to support short-term recovery.

9. A group of incident management personnel organized according to function and reporting to the Incident Commander.

10. Established for the temporary location of available resources. Can be any location in which personnel, supplies, and equipment can be temporarily housed or parked while awaiting operational assignment.

11. Any incident, whether natural or manmade, that requires responsive action to protect life or property.

12. Describing an incident, natural or manmade, that warrants action to protect life, property, environment, public health or safety, and minimize disruptions of government, social, or economic activities.

August Crossword Solution - Sailor Talk

Across

1. MAGNETICNORTH—The direction to which a compass points.
3. DEADRECKONING—A method of determining position by making an educated guess based on last known position, speed and currents.
5. CABIN—A room inside a boat.
8. BACKSPlice—A method of weaving the end of a rope to keep it from unraveling.
10. LANYARD—A line attached to a tool.
11. WAKE—Waves generated in the water by a moving vessel.
14. FOLLOWINGSEA—Sea with waves approaching from the stern of the boat.
16. PAINTER—A line attached to the bow of a dinghy and used to tie it up or tow it.
17. FORECASTLE—The most forward below decks area of a vessel.

Down

2. ABEAM—At a right angle to the length of the boat.
4. GROUNDSWELLS—Swells that become shorter and steeper as they approach the shore due to shallow water.
5. CAPTAIN—The person who is in charge of a vessel and legally responsible for it and its occupants.
6. BOATSWAIN—A crew member responsible for keeping the hull, rigging and sails in repair.
7. SCUPPER—An opening through the toe rail or gunwale to allow water to drain back into the sea.
9. CHANNEL—A navigable route on a waterway, usually marked by buoys.
12. ABAFT—Toward the rear of the boat, behind the boat.
13. DAVIT—A device that projects beyond the side of the boat to raise objects from the water.
15. LEEWAY—The sideways movement of a boat away from the wind, usually unwanted.

BREAK - OVER

“Some people see more in a walk around the block than others see in a trip around the world.”

A. Nony Moose

How's Fishin'?

'Bout a foot long on Lake Ida!

ALEXANDRIA, Minn. (KSAX) – Three years after a Morris woman lost her prosthetic leg on Lake Ida, a Wisconsin woman fished it out and returned it.

It happened over the Fourth of July weekend; Beth Krohn went fishing while at her lake home on Lake Ida. She was out on the lake for about an hour when she felt a snag, but when she started to reel in her line, she quickly began to realize she caught something and it wasn't a fish.

“It kept coming up and I'm like, ‘Oh my gosh!’” Krohn said. “I hope it's not a dead body. We got it up and it was a prosthetic leg.”

Pam Riley is from Morris, but she also has a lake home on Lake Ida. She lost her prosthetic leg three years ago while swimming. She never thought anyone would find it, but always laughed about “what if?”.

“What would anybody think when they see a part of a leg,” leg owner Pam Riley said. “They probably wondered where the rest of the body was.”

After Beth caught the keeper that morning, she called a few places in Alexandria hoping to find its rightful owner. She ended up calling Advanced O and P in Alexandria; turns out she reeled in the leg right in the nick of time.

“We told (the receptionist) we found this prosthetic leg,” Krohn said. “She started laughing and said she was going to put me on hold. She said the lady who lost was there in the office and she wanted to talk to me.”

Krohn and Riley met up later that day in the Walmart parking lot in Alexandria to exchange stories and body parts. Krohn said she will tell this story for years to come because even though her catch wasn't one for the wall, she said it was definitely a keeper.

“How can you top that?” Krohn said. “It's like going deer hunting and shooting the biggest buck of all.”

BREAK - OVER



Beth Krohn shows off a keeper from Lake Ida

Labor Day



National Preparedness Month



This September marks the seventh annual National Preparedness Month (NPM). Led by FEMA's *Ready Campaign* in partnership with Citizen Corps and The Advertising Council, NPM is a nationwide effort encouraging individuals, families, businesses and communities to work together and take action to prepare for emergencies.

NPM Coalition members will sponsor events and activities throughout the month highlighting the steps that individuals, families and communities can take to prepare. Additionally, the *Ready Campaign* provides many information items to help promote the month.

"National Preparedness Month is a great way to get Americans and our communities and businesses to come together in planning and preparing for a disaster," said FEMA Administrator Craig Fugate. "Disasters can hit any place, any time, so it's essential that we take concrete steps together, now, to ensure a better response later."

This year, NPM focuses on encouraging all Americans to take active steps toward getting involved and becoming prepared. Preparedness is everyone's responsibility. Americans have to work together as a team to ensure that individuals, families and communities are ready. Individuals are encouraged to: make a family emergency plan; put together an emergency supply kit; be prepared to help your neighbor; and work as a team to keep everyone safe.

You can visit the Ready America website at: <http://www.ready.gov/america/index.html> to take advantage of the preparedness information tools.

BREAK - OVER

Q: Where do ponies get their school supplies?

A: Stables!

New Spotters Guide

The National Weather Service has completed the revision of the Spotter's guide. The publication is available for downloading at: www.nws.noaa.gov/om/brochures/SGJune6-11.pdf The guide will be printed later this year according to NOAA information.



You can find enough information at the NOAA site (www.noaa.gov/index.html) by searching on "spotting" to keep you occupied for several hours. There is a wealth of good severe weather information that will improve the accuracy of your storm spotting. Accurately observing and reporting current conditions in the field is an important tool that enables the local weather service to keep the public informed during severe weather.

BREAK - OVER

Seal Team Honored



VIRGINIA BEACH, Va. (Aug. 25, 2011) Nearly 1,000 Sailors assigned to the aircraft carrier USS Theodore Roosevelt (CVN 71) "man the rails" outside the Virginia Beach Convention Center to honor the 17 fallen SEAL team members who were shot down last month in Wardak Province, Afghanistan. The Sailors stood at attention for the arrival of the families and honored guests attending the event.

ISS May be Evacuated in November

Russian rocket failure limits options

www.space.com

Ed Note: One of ham radio's most important ongoing educational and public relations programs is ARISS - Amateur Radio on the International Space Station. With the US Space Shuttle fleet retired and Russia having indefinitely grounded its Soyuz launch vehicles that were to be used in place of the Shuttles to transport Astronauts and Cosmonauts to/from the ISS, both nations are saying that the ISS may have to be abandoned indefinitely come this November. For ham radio, if this deactivation of the ISS happens, would the ARISS program resume — or even be considered to resume — after the ISS were to be reactivated? And if the worst case scenario were to happen, what would the loss of the ARISS program mean to ham radio?

The International Space Station may have to start operating without a crew in November if Russian engineers don't figure out soon what caused a recent rocket failure, NASA officials announced Aug. 29th.

The unmanned Russian cargo ship Progress 44 crashed just after its Aug. 24 launch to deliver 2.9 tons of supplies to the orbiting lab. The failure was caused by a problem with the Progress' Soyuz rocket, which is similar to the one Russia uses to launch its crew-carrying vehicle — also called Soyuz — to the station.

Currently, six astronauts reside on the space station. They shouldn't be unduly affected by the Progress crash, NASA officials said, because they have enough supplies to last a while on orbit.

But three of these astronauts are due to return to Earth next month, and the rest are scheduled to come back in mid-November. At the moment, the Soyuz is the only way to get astronauts to and from the station. So if the rocket anomaly isn't identified and fixed soon, a fresh crew won't be able to reach the orbiting lab before the last three spaceflyers head for home.

That situation would leave the \$100 billion orbiting lab unmanned for the first time since 2001. Still, it wouldn't be a disaster, according to NASA officials. "We know how to do this," NASA's space station program manager Mike Suffredini told reporters today. "Assuming the systems keep operating, like I've said, we can command the vehicle from the ground and operate it fine, and remain on orbit indefinitely."

NASA would of course prefer to keep some crew aboard the orbiting lab, Suffredini added. Leaving the station unmanned would cut back significantly on the scientific research being done 240 miles (386 kilometers)

above the Earth. In the wake of the space shuttle's retirement last month, NASA has repeatedly stressed the importance of that research, and the scientific potential of the station.

But the timing just might not work out. Two Soyuz spacecraft are currently docked to the station to take its six astronauts home. The vehicles are only rated to spend about 200 days in space, so they'll have to depart soon.

Lighting conditions at the Soyuz's Kazakhstan landing site are also an issue. NASA and the Russian space agency mandate that landings must occur at least one hour after dawn and one hour before dusk, to facilitate better search and rescue operations should any be required.

The lighting window closes for about five weeks on Sept. 19 for the first crew and around Nov. 19 for the second. Waiting for a new window to open would stretch the Soyuz spacecraft beyond their 200-day ratings in both cases, Suffredini said.

So all six astronauts on the space station will almost certainly have left the orbiting lab by mid-November. Russian engineers are working hard to give crewed Soyuz launches the best chance to meet that deadline; the next one is slated to blast off Sept. 21, but that's almost certainly not going to happen, Suffredini said.

Russia has formed a commission to determine the cause of the Progress crash, and to figure out how to fix it.

But NASA says it won't rush anything,

as astronaut safety is its chief priority. "We'll just see how it plays out," Suffredini said.

NASA won't put any crews on a Soyuz until the rocket has had several successful unmanned launches, he added. Those could happen relatively soon. Russia plans to use Soyuz boosters to launch a commercial payload and another Progress supply ship by late October.

The Progress crash marked the latest in a string of Russian launch failures over the last 10 months. This series of mishaps has caused some concern among U.S. lawmakers and experts, since NASA will rely on Russia to loft its astronauts to orbit until private American crew-carrying spaceships come online. That could start happening by 2015, officials have said.



International Space Station NASA Photo

Special Event Stations Mark Tenth Anniversary of 9/11

In remembrance of those who died in the terrorist attacks that occurred on September 11, 2001, several Amateur Radio Special Event Stations are being planned.

- The Pentagon Amateur Radio Club, K4AF, will be on the air 7 AM-9 PM Saturday, September 10 (1100-0100 UTC, Saturday, September 10 through Sunday, September 11).

Active operating frequencies will be posted during event on the [K4AF website](#). This Special Event is to honor all those lost on September 11, 2001, with special remembrance of the 184 people who lost their lives at the Pentagon and on board American Airlines Flight 77.

- The Blair Amateur Radio Society, W3PN, will be operating N3U/FLT93 from September 8-15 in memoriam of United Flight 93 that crashed near Shanksville, Pennsylvania. This year's activity will take place during tenth anniversary and the Memorial Dedication for the Victims of United Flight 93. To receive a QSL card, please send a self-addressed, stamped envelope to Blair Amateur Radio Society, W3PN, 112 E Wopsononock Ave, Altoona, PA 16601.

- The Northeast Wireless Radio Club, N2WC, will be on the air Sunday, September 11 from 12 noon until 6 PM EDT (1700-2300 UTC). NWRC members will be operating in the General class bands on Phone, CW and Digital; please check the clusters for frequency updates. You can receive a Special Event QSL card when you send a \$2 donation to Northeast Wireless Radio Club, 213-37 39th Avenue, Suite 175, Bayside, NY 11361.

- The Kings County Repeater Association, KC2RA, will be on the air 9 AM-5 PM EDT (1300-2100 UTC) on Saturday, September 10. Look for KC2RA on 7.250 and 14.295 MHz, as well as EchoLink node 132967 (KC2LEB-R) and the KC2RA repeater at 146.430 (CTCSS 136.5). KC2RA members will be offering a special QSL card for the event. To receive a card, please send a self-addressed, stamped envelope to KC2RA 9/11 Memorial Event, PO Box 280288, Brooklyn, NY 11228-0288.

- The Symbol Technologies Amateur Radio Club, W2SBL, will be on the air September 10-11 on the following frequencies: 3.911, 7.240, 14.070 and 50.135 MHz, as well as D-STAR REF10C. STARC members will read the name of a person killed in the attacks with every QSO. A Special Event QSL card is available when you send a self-addressed, stamped envelope to Symbol Technologies Amateur Radio Club, W2SBL, One Motorola Plaza, B-13, Holtsville, NY 11742.

BREAK - OVER



REMEMBERING 9/11

The Foundry, Heritage.org

This month, America honors the anniversary of September 11, 2001, when terrorists killed nearly 3,000 of our fellow citizens. In the days after 9/11, Americans stood together as one, setting aside partisan fervor and recognized a common enemy in Islamist terrorist groups, particularly al-Qaeda. National security was rightfully restored as our nation's highest priority.

Ten years later, Osama bin Laden is dead, delivering to victims' families and the rest of America a bit of justice for the heinous acts we all witnessed. But one terrorist's death does not justify returning to the national security mindset that existed prior to that day.

As Thomas Paine said, "Those who expect to reap the blessings of freedom must, like men, undergo the fatigue of supporting it." The global war on terror that began as a result of 9/11 continues, and brave men and women risk their lives daily to protect America and prevent future acts of terrorism. As soldiers return from Afghanistan and Iraq after third or fourth tours of duty, we're reminded that a clear and present danger remains.

As Abraham Lincoln said in the Gettysburg Address, "It is for us the living, rather, to be dedicated here to the unfinished work which they who fought here have thus far so nobly advanced."

As the 10-year anniversary of 9/11, it's important to honor the victims and the heroes of that day by not only remaining on guard, but promising we will never quit this important fight until the threat no longer exists.

We will also be asking Americans to join us in a display of unity once again. On Sunday, September 11, 2011, we hope that every neighborhood across the nation is flooded with American flags celebrating the lives of those we lost in New York, Virginia and Pennsylvania and the heroism we witnessed, while also reminding each other that the fight to prevent another attack is not over.

BREAK - OVER

WWW.SCOTTARES.ORG

The Scott ARES website holds a wealth of information for Scott ARES members. The techniques and procedures detailed are the basis for accurate, rapid communications. If you haven't visited the site for a while, here is a short list of the contents on the Training and Member Resources Pages:

- Activation Plan and Calling Tree
- Directed Net Procedure
- NBEMS Resources, Software
- Contact List
- Scott ARES Operating Aids
- Net Script
- Formal Traffic Handling
- ITU Phonetics
- Operating Habits
- LID List
- FEMA Training course links

The procedures explained under the Directed Net Procedures are not suggested operating practices. These procedures ARE the way we operate as ARES communicators either during training or providing a service to a served agency. Take the time to study the procedures and become familiar with their use. When you read something that doesn't seem to make sense, ask.

The Monday evening training net is the best place to practice and have your questions answered.

BREAK - OVER

General Class Q&A Now Available for Kindle

The fourth edition of ARRL's General Q&A is now available from Amazon.com for the Kindle. This e-book is your authoritative guide to every question in the General (Element 3) question pool — everything you need to pass your General class license exam. When you use ARRL's General Q&A, you can be sure that you are using the best way to review for the 35 question exam. The e-book includes every question — and answer — in the General class question pool, utilizing a multiple-choice format similar to the one on the actual exam. The current General class question pool is valid through June 30, 2015.

Kindle is shaped much like a book with a paper-like screen that displays text and pictures. You do not need Kindle to download and purchase the General Q&A: those who have the Kindle application installed on their Apple iPhone iPod touch, Android smartphone — or even on their computer — can download the book for use on these devices.



Each version of the Q&A lets you review questions and answers from that element's entire question pool so you can pass your exam. The Tech Q&A, General Q&A and Extra Q&A are available from Amazon.com for \$9.99 each. The soft cover version of the General Q&A is also available for \$17.95. Upgrade and enjoy more frequency privileges today.

BREAK - OVER



ARES Breakfast

Saturday, September 10th
7:30AM
Perkins Restaurant
Savage, MN

Savor the Season!



NECOS Schedule September 2011

- 5 Sep KB0FH Bob
- 12 Sep KC0YHH Tony
- 19 Sep N0PI Dan
- 26 Sep W0NFE Bob
- 3 Oct KB0FH Bob
- 10 Oct KC0YHH Tony