

# FIND US ON THE AIR!

## MCARES Primary Frequency:

147.315, +0.6mHz, 141.3Hz

## TNARES District 8 Frequency:

147.000, +0.6mHz, 100Hz

# AREA NETS

### Monday:

1900 - Knox Co. ARES/METERS Net 146.940

repeater

### Tuesday:

1900 - Monroe Amateur Radio Club Net 145.250

repeater

2000 - Roane Co. ARES Net 147.015 repeater

2030 - McMinn/Monroe Simplex Net 146.490

### Wednesday:

2000 - Monroe Co. ARES Net 147.315 repeater

### Thursday:

1900 - Anderson Co. ARES Net 146.150 repeater

2000 - Loudon Co. ARES Net 146.685 repeater

2100 - Blount Co. ARES Net 146.625 repeater



## The Amateur Radio Emergency Service

The Amateur Radio Emergency Service consists of amateur radio operators who are dedicated and willing to voluntarily serve their communities and those around them.

ARES volunteers provide

communications for:

- Many different government agencies
- Disaster relief
- Public events such as marathons and festivals
- Training exercises and preparedness drills

As an ARES radio operator, you will have opportunities to gain training and experience with:

- Traffic handling
- Digital modes and programs
- Field operation
- The Incident Command System (ICS) and the National Incident Management System (NIMS)
- Front panel radio programming

## LEARN MORE AT:

[www.mcares.net](http://www.mcares.net)

[www.arrl.org/ares](http://www.arrl.org/ares)

# MONROE COUNTY AMATEUR RADIO EMERGENCY SERVICE



Emergency Coordinator: Caleb Lynn,

[ec@mcares.net](mailto:ec@mcares.net)

Assistant Emergency Coordinators: Mike

Neyenhaus, Jeff Buffington

[aec@mcares.net](mailto:aec@mcares.net)

# WHAT WE DO

Monroe County ARES (MCARES) is under the direction of the ARRL Emergency Coordinator and the Monroe County Emergency Management Agency. We provide communication support to our Authority Having Jurisdiction (AHJ) when requested, as well as supporting local groups and events throughout Monroe County. A few of the events that we support are the Cherokee Ultra 70K/130K Marathon, Madisonville carnival and even a local youth ministry's river float.

Supporting community events such as these gives MCARES members an opportunity to practice effective communication skills, as well as field-expedient station set-up and operation. The time to prepare for an emergency is now.

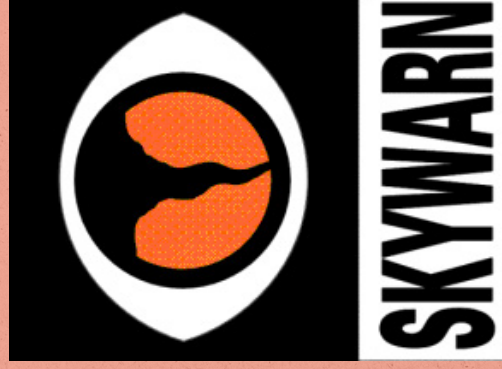
MCARES also works hand-in-hand with ARES groups in our neighboring counties. Keeping these relationships operational is key to ensuring smooth interoperability between groups should the need arise.

# SKYWARN

During the passage of severe weather through the county, MCARES operates the Monroe County Skywarn Net on our primary repeater (147.315).

Skywarn Spotter certification is not required to participate in the net, but it is highly encouraged and is also a requirement for all MCARES members to become certified spotters.

Spotter reports are used by the National Weather Service to "ground truth" what the radar is... or is not seeing. The closest NWS radar to our area is in Morristown and due the distance, the radar may only be able to see the tops of the storms and not an accurate representation of what is actually occurring.



# READY TO GET STARTED?

## Requirements for Monroe County

### ARES:

- Technician license or above
- Within two (2) years of joining:
  - FEMA ICS-100 and 700
- Optional additional training:
  - IS-00317.a Intro to CERT
  - Role of the Skywarn Spotter
  - Skywarn Basics

Applications and information about MCARES can be found at [www.mcares.net](http://www.mcares.net), or by sending an email to [ec@mcares.net](mailto:ec@mcares.net).

We have a monthly meeting on the first Saturday of each month. Meetings typically begin at 11:30. Visit [mcares.net](http://mcares.net) for upcoming meeting locations All are welcome to attend.



# Amateur Radio Emergency Service® (ARES®)



## The Amateur Radio Emergency Service (ARES)

Amateur Radio Operators use their training, skills, and equipment to provide communications during emergencies When All Else Fails®. The ARRL Amateur Radio Emergency Service (ARES) consists of radio amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes.

### ARES volunteers provide communications for:

- Government agencies
- Disaster relief organizations
- Public service events
- Emergencies or disasters
- Training exercises

### ARES radio operators receive training in:

- Message handling
- Communication technology
- Administrative procedures
- Disaster preparedness



ARRL's volunteer amateur radio operators help their communities in good times and bad through community events, disaster response, and various programs.

### Get Involved in ARES

- Ask local hams about involvement
- Contact your Section Manager or Section Emergency Coordinator, [www.arrl.org/sections](http://www.arrl.org/sections)
- Join local radio clubs, [www.arrl.org/clubs](http://www.arrl.org/clubs)
- Be "radio active" — Get on the air as often as possible
- Attend SKYWARN® training, [weather.gov/SKYWARN](http://weather.gov/SKYWARN)
- Learn more about ARES, [www.arrl.org/ares](http://www.arrl.org/ares)
- Reach out to ARRL for assistance, email [ares@arrl.org](mailto:ares@arrl.org)

### Contact Your Local ARES Group or ARRL Affiliated Club

# Join ARES® Today!



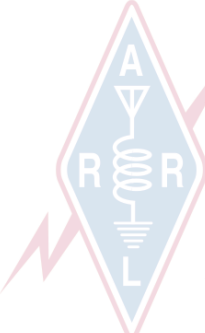
# Amateur Radio Emergency Service® – ARES® Fact Sheet

**Amateur Radio Emergency Service (ARES):** ARES is a program of ARRL The National Association for Amateur Radio®, offering to the public and to its partners trained, federally licensed operators who are skilled in applying a wide range of effective emergency/disaster communications techniques and who are committed to supporting our partners' missions in service to the public.

**ARES Vision Statement:** ARES is the premier amateur radio emergency communications service to the United States and its territories.

**ARES Mission Statement:** ARES strives to be an effective partner in emergency/disaster response, providing the citizenry and public service/safety partners with communications expertise, situational awareness, and capabilities of professional communicators.

## ARES Values:

- 
- **RELEVANT:** ARES is there When All Else Fails®... and before.
  - **LEADERSHIP:** ARES leverages the strength of its ARRL member-volunteers and the leaders within its organizational structure to create and nurture professional-level relationships with community, government, and other partners in emergency management.
  - **RESOURCEFUL:** ARES strives to be an invaluable tool that communities and first responders can call upon in times of need for reliable and robust communications.
  - **INNOVATIVE:** ARES adopts state-of-the-art capabilities for deployment, setup, and operation of world-class, resilient communications from operations centers to field locations.
  - **SKILLED:** ARES volunteers have access to leading training courses in radio communications and related technologies to support wide-ranging emergency scenarios.
  - **EQUIPPED:** ARES provides robust, multi-spectrum analog and digital communications as well as networking assets to its trained force of volunteers, regardless of location, for in-person, mobile, and fixed capabilities.

**ARES Partners:** ARES partners are served agencies that fall into two broad categories: government agencies (federal, state, local, and tribal) and non-governmental organizations (NGOs).

**AUXCOMM:** AUXCOMM is a training standard managed by the Emergency Communications Division of the Cybersecurity and Infrastructure Security Agency (CISA) of the Department of Homeland Security. ARRL and ARES support and encourage AUXCOMM training.

**ARES Engagement (Government Agencies):** ARES volunteers working with government agencies will function in partnership with the served agency in accordance with agreements or Memorandums of Understanding (MOUs) at the federal, state, or local level. An ARES volunteer will abide by the guidelines of the served agency while not in conflict with ARES guidelines and training. This level of service may vary from Emergency Operations Centers (EOCs) to field deployments with a variety of government organizations. Government agencies may require additional training or screening, including AUXCOMM or EOC training.

**ARES Engagement (NGOs):** ARES has had a long history of partnerships with other NGOs and maintains agreements with many at all levels of response. ARES volunteers assist these organizations in many capacities, including at shelters, aid stations, and operations centers in times of need. Some of these organizations may require additional training or other requirements. ARES volunteers are encouraged to participate to the level they feel is appropriate for them.

Further information is available at [www.arrl.org/ares](http://www.arrl.org/ares).

# ARRL MEMBERSHIP

ARRL is the national association for amateur radio in the U.S. We provide opportunities to discover radio, develop skills, and serve your local community.

Anyone who is active in amateur radio or who wishes to get more involved to pursue interests, public service, or personal enjoyment will benefit from ARRL Membership.

## Benefits

To get you involved and keep you up to date with all that amateur radio has to offer!



### INFORMATION

As a member, you will gain access to all four digital magazines, several special interest e-newsletters, & personalized answers to your technical and operating questions.



### LEARNING

From licensing exam prep, to live training forums; to online training courses for new hams, emergency communicators, and more.



### PROGRAMS & SERVICES

License renewal, member recognition programs, contesting opportunities, advocacy efforts, and an active local club system.

Join or renew today at  
[www.arrl.org/join](http://www.arrl.org/join)



## WHAT DO YOU WANT TO DO WITH AMATEUR RADIO?

### Discover New Interests

Whether you're interested in new technologies, project building, radiosport, emergency preparedness, or public service, ARRL has resources to help you learn, get active, and get on the air.

Your membership provides digital access to all four ARRL publications, with offerings for beginners as well as advanced hams. They include *QST*, the membership journal of ARRL; *On the Air*, an introduction to the world of amateur radio; *QEX*, covering topics related to radio communications experimentation; and *National Contest Journal (NCJ)*, covering radio contesting.

Plus, receive your choice of either *QST* or *On the Air* in print.

### Build & Share Your Knowledge

With online learning courses, members-only web content, and leadership opportunities, you can grow your skills and interest in amateur radio through the many ARRL programs available to members.

### Shape the Future

Your membership dollars help to preserve and protect access to frequencies allocated to the Amateur Radio Service.





# Amateur Radio Emergency Service®



## ARES® Registration Form

<b>Name:</b>	
<b>Call Sign:</b>	
<b>Mailing Address:</b>	
<b>City, State, ZIP code:</b>	
<b>e-mail address(es):</b>	
<b>Home phone number:</b>	
<b>Work phone number:</b>	
<b>Cell phone number:</b>	
<b>License Class:</b>	

Check bands and modes that you can operate:

MODE	HF	6 meters	2 meters	222 MHz	440 MHz	Others	
SSB							
CW							
FM							
DATA							
PACKET							
Other modes (specify below)							
Mobile Operation							

Can your home station be operated without commercial power? Yes [  ] No [  ]

Signature \_\_\_\_\_ Date \_\_\_\_\_

Contact ARES® and ARRL Section Leaders in your area: [www.arrl.org/sections/](http://www.arrl.org/sections/).  
 Learn about ARRL-sponsored Amateur Radio Emergency Communications Courses:  
[www.arrl.org/online-course-catalog](http://www.arrl.org/online-course-catalog)



# Amateur Radio...

## *Serving Your Community*



Events such as marathons and bike-a-thons; fund-raisers such as walk-a-thons; celebrations such as parades; and exhibits at fairs, malls and museums — these are all large, preplanned, non-emergency activities.

Amateur Radio people (also called “hams”) are well known for our communications support in disaster and post-disaster situations. But did you know we also provide communication services to the public during special events?

### **How Amateur Radio Works With Event Sponsors and Public Safety Officials**

We’re called “amateurs” because we are not paid. Our services are provided at no charge. Like amateur sports, we do it for the love of it! We may be called “amateurs,” but our communications services are professional.

Amateurs and their equipment can interface with both public safety efforts and event organizers.

Our equipment can be made operational quickly inside a building, in a mobile command post or out in field units.

Hams are trained, organized volunteers willing to meet the communications needs of the event sponsor.

Police and fire radios are for tactical or operational traffic in emergencies. Amateur Radio offers administrative radio communications options for use in your overall management and coordination of the event.

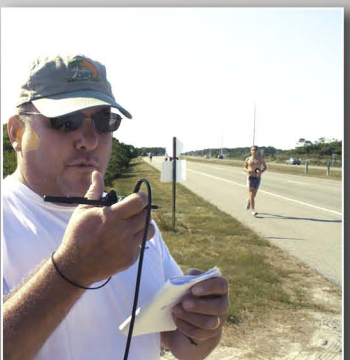
Hams have a readiness to receive specific training for your individual event.

You have instant communications from the starting line to the finish line, the official's area, net control, water stations, aid stations, medical facilities, sag wagons, floats, grandstands, parking areas, review stands and medical command facilities.

Once the necessary introductions have been made, the rest is easy because Amateur Radio people are indeed the experts in meeting communications requirements of every sort. This is what we love to do!

Our radio messages can go to just one location at your event, or event-wide, instantly. Hams can even track the locations of multiple mobile units in real time and display them on a map.

**It's symbiotic.  
You need us,  
and we want  
to help.**





## What's Needed for Event Communications?

- The event organizers want Amateur Radio help to be there.
- The event organizers and participating amateurs meet and agree on Amateur Radio's role in the operation.
- Everyone understands and endorses the operational plan.

You will want to place radio amateurs in a lot of different areas. This, of course, will depend on the specific nature of your event, but some places might be: mile markers, half-mile markers, the reviewing stands, start and finish lines, water and aid stations, sag wagons, parking areas, medical stations, event HQ, shadowing coordinators, message centers, floats, and scoring areas.

## Relationship to Event Organizers

All event officials should have a clear understanding of the operational plan that defines our role, what we can and cannot do. Amateurs are volunteer, experienced and trained communicators.

The communications plan is developed jointly between the organizers and the hams to meet the needs of the event. A post-event review aids in making the next event even better.

Participating Amateur Radio operators need to be identified by vest, badge or other easily recognizable item and given area access.

Liaison is always maintained with the event leadership to provide flexibility as situations change.

## What Do the Hams Get Out of It?

Besides the basic enjoyment in using our hobby and knowing we are serving our neighbors, we get practice!

No two special event operations are going to be the same. Your operational plan will depend on your own requirements and your resources. But hams are adaptive! They've been providing public service communications for a century in all sorts of situations.

**If you want a GREAT event,  
you need great communications.  
We can help.**



**ARRL** *The national association for*  
**AMATEUR RADIO**  
225 Main Street • Newington, CT USA 06111  
(860) 594-0200 • [www.arrl.org](http://www.arrl.org)

Or contact the Amateur Radio group  
in your community by calling:





**After giving away thousands of free handheld radios to new hams, the QRZ Jumpstart program is back with an exciting new deal!**

QRZ, RT Systems and GigaParts are teaming up to offer a more sustainable program that will be expanded to include hams who have been licensed for 6 months or less. The new program offers a coupon code to the new ham that gives them a QRZ-1 radio, programming cable, RT Systems programming software, New Ham Welcome Kit, and a QRZ membership for only \$21.99 (+tax & +S&H).

This program is available to amateur radio operators licensed in the USA while supplies last. To sign up, new hams should complete the application process at [www.qrz.com/jumpstart](http://www.qrz.com/jumpstart)

#### **What's Included:**

- Explorer QRZ-1 Handheld radio
- Programming cable
- RT Systems Programming Software
- Premium QRZ Subscription

#### **How it works:**

1. Apply at [www.qrz.com/jumpstart](http://www.qrz.com/jumpstart)
2. Receive your unique discount code from QRZ via email
3. Add a **QRZ-1** to your cart
4. Add any accessories you may want to purchase
5. At checkout, enter your unique discount code

\*Some restrictions apply, [click here for details](#).



Explorer QRZ-1 5W VHF/UHF Handheld Transceiver



**\$59.95**

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Automated Attendant

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## SKYWARN STORM SPOTTERS

*SKYWARN* is a national network of volunteer severe weather spotters. There are currently over 230,000 trained SKYWARN spotters in the U.S. These dedicated citizens come from all walks of life and help keep their local communities safe by conveying severe weather reports to NOAA's National Weather Service (NWS). They are trained by local NWS meteorologists on how to safely observe severe thunderstorms, tornadoes, hail, flooding, heavy snow, and ice accumulation. Where appropriate, training is received on other hazardous phenomena such as volcanic ashfall, waterspouts, rip currents, mudslides, and even earthquakes.

Since the program's inception in the early 1970s, the information provided by SKYWARN spotters, has enabled the NWS to issue more timely and accurate life saving severe weather warnings. Radar may tell us that heavy snow is falling, but it can not tell us how much snow is on the ground or if rain is mixing with the snow. Spotters provide the real time "ground-truth" necessary for an effective national warning system. Reports are used by NWS forecasters to send out public statements, warnings and advisories, and short-term forecasts. These products reach the public through the internet, NOAA Weather Radio ([www.nws.noaa.gov/nwr](http://www.nws.noaa.gov/nwr)), the media and other commercial services. SKYWARN spotter reports also go into *Storm Data*, which is an official publication that documents severe weather across the country. *Storm Data* can be used to create a severe weather climatology (or history) of a local county or city. *Storm Data* is published by the National Climatic Data Center.

In the average year, 10,000 severe thunderstorms, 5,000 floods, and over 1,000 tornadoes occur across the United States. These storms have killed many people in the U.S. and injured numerous others. A major lesson learned from recent disasters such as Hurricane Katrina, is that it is every organizations' responsibility to develop an emergency response plan. Any solid response plan has a section that deals with severe weather hazards and should identify *Designated Weather Watchers*. These individuals remain aware of weather conditions on the behalf of others, so they can go about their business. When conditions become potentially hazardous, the Designated Weather Watcher heightens his or her weather monitoring activities to remain cognizant of the threat to their specific location. In addition, they know how to initiate a local warning action to influence the actions of others when there is a developing weather emergency. Having a Designated Weather Watcher as part of organizational plans is not only important in terms of safety, it makes good business sense. The training provided to become a SKYWARN spotter can also be used to qualify a Designated Weather Watcher in your organization.

### How can I get involved?

Every year the NWS conducts SKYWARN spotter training sessions. The NWS currently has 122 Weather Forecast Office's across the nation, each with a *Warning Coordination Meteorologist (WCM)*, who is responsible for administering the SKYWARN program in their local area. There is no charge and a typical class takes about 2 hours to conduct. To find out when a SKYWARN spotter class will be conducted in local your area, please contact your local Warning Coordination Meteorologist at: [www.stormready.noaa.gov/contact.htm](http://www.stormready.noaa.gov/contact.htm)

SKYWARN storm spotters form the Nation's first line of defense against severe weather. The efforts of these unsung heroes give communities throughout our country the precious gift of time – the seconds and minutes that can help save lives. For more about the SKYWARN program, visit the NWS National SKYWARN web page at [www.weather.gov/skywarn](http://www.weather.gov/skywarn)