

Ham Chatter



Volume 57 Issue 12

An Official BARC, W4AMC, Publication

December 2023

Editor, Mark, KG4GVJ

Email: hamchatter@w4amc.com

BARC Christmas Party

At Immanuel Baptist Church again
Club providing meet, guess to bring a side
dish.

PARC changing Nets Frequency for VHF and HF

BARC General meeting Sept 12, 6:00pm in person and ZOOM *All members, families and guests are invited to attend.*

**December 11 (Monday)
BARC Christmas Party, 6:30pm
Immanuel Baptist Church**
1101 S Elm st, Greenville, NC 27858. use the lower double doors to enter,

PARC Christmas Party, Dec. 14

Christmas Party will be held at the home of PARC member Wayne Estabrooks on Dec 14. I will send out more information on the Christmas Party in an upcoming email.

BARC in January 2024, Scott James will be speaking on Repeaters.

Our Thanks to all who served as Officers in the clubs.
Both past, present and future.



BARC Board Meeting - Dec 26, 2023. No meeting this month.

**Dues due January 2024
for BARC**

2023 SKYWARN™ Recognition Day is December 2

The popular annual SKYWARN™ Recognition Day (SRD) will be held on December 2, 2023, from 0000Z to 2400Z. SRD was developed in 1999 by the National Weather Service and ARRL. It celebrates the contributions that volunteer SKYWARN radio operators make to the National Weather Service. During the day, SKYWARN operators visit NWS offices and contact other radio operators across the world.

SKYWARN Recognition Day Operating Instructions

1. Object: For all amateur stations to exchange QSO information with as many Amateur Radio SKYWARN Spotters and National Weather Service Stations as possible on the 80, 40, 20, 15, 10, 6, and 2-meter and 70-centimeter bands. Contacts via repeaters are permitted. SKYWARN Recognition Day serves to celebrate the contributions to public safety made by amateur radio operators during severe weather events of the past year.
2. Date: NWS stations will operate December 2, 2023, from 0000 - 2400 UTC.
3. Exchange: Call sign, name, location, signal report, a one- or two-word description of the weather occurring at your site ("sunny," "partly cloudy," "windy," etc.), temperature reading if available and SRD Number if the station has one.
4. Modes: NWS stations will work various modes including SSB, FM, AM, RTTY, Winlink, CW, FT8, FT4, and PSK31. While working digital modes, special event stations will append "/NWS" to their call sign (e.g., N0A/NWS).
5. Station Control Operator: It is suggested that during SRD operations for NWS offices a non-NWS volunteer should serve as a control operator for your station.
6. Event and QSL Information: The National Weather Service will provide event information via the [SRD website](#). Event certificates will once again be electronic and printable from the main website after the conclusion of SRD.
7. Log Submission: To submit your log summary for SRD, you can use the online submission form that will be made available on the NWS SRD Recognition main page when the event is completed. Dead line for log submission is January 31, 2024.

Note on NWS Station Operations: For 2023, guidance on in-person amateur radio operations by volunteers will be determined by each National Weather Service Local Forecast Office. Amateur radio operators must make all necessary inquiries ahead of SRD with the appropriate NWS staff at your respective Weather Forecast Office before registering the NWS office for this event.

Involving Non-Amateur Radio SKYWARN Spotters in SRD

Amateur Radio SKYWARN groups and those groups involved with their NWS amateur radio office station setups are encouraged to actively reach out and find ways for non-amateur radio SKYWARN spotters to participate in the event. This can be done through social media and other ways in coordination with the local NWS offices.

For more information on SRD:
[NWS SKYWARN Recognition Day Main Page](#)

For More Information on SKYWARN:
[NWS SKYWARN](#)

VE News

To find the next VE testing session please go to the ARRL web site: <http://www.arrl.org/find-an-amateur-radio-license-exam-session> and find one in your local area.

Practice taking the test on line with <https://www.hamradiolicenseexam.com>.
www.hamradioPrep.com
HamStudy.org

Study material at: <http://www.arrl.org/courses-training>.

The contents of this Newsletter doesn't necessarily express the opinion or views of Brightleaf Amateur Radio Club or it's members. No offence is intended.

Happy Birthday

Brightleaf Amateur Radio Club members birthdays :

12-02 W4ZRA Rick
 12-11 KG4CCX Tod
 12-13 KC4RBE June

Please let me know of any additions or corrections. If yours is missing, I don't have it! Email hamchatter@w4amc.com

Next VE Session

Please bring to the Test the following, required:

- Photo ID (drivers license)
- Original Amateur Radio License
- Copy of Amateur Radio License
- Original CSCE's
- Copy of CSCE
- Test fee (Cash) .
- ♦ FRN number is required. *
- ♦ A valid Email address will need to be provided.

See this link for further information: <https://w4amc.com/get-your-license-ve/>

Gil Cartoons Courtesy of ARRL's 2021 Calendar(2020) and Gil, a Collection of Classic Cartoon from QST(1986-2007)

Articles in the Chatter may be from the ARRL Newsletters, ARES Newsletters and Section Managers. Others may be Material provided by others. Please respect possible copyrights.

Well Wishes

Thoughts and Prayers go out to the following:

Judy W3JUJ and the lost of her home to a fire. <https://gofund.me/3a048969>

Congrats to Anna Grace KQ4KVB, past her Technician test. Only person with Down Syndrome known as a Licensed Ham.

Please inform the Vice President and Ham Chatter of any changes or needs. This can be of death announcements, sickness or prayers requested.

Presentation Ideas Needed

Please send ideas of new presentation topics and presenters to our VP Judy W3JUJ
 Email: info@w4amc.com

BARC Needs YOU!

BARC needs to know where You think we should go as a Club.
 Service the Community, Contesting, Teaching, Elmering, What? Give us your thoughts.

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BARC's President's Corner, Beth, KN4FZB



*Beth is out of town at this time attending a Funeral. Please stay tune for more next year.
Editor*



BARC Board Meeting on Zoom 11/28/23

Voting Board members: (need 4)

*President: Beth KN4FZB,
V.Pres: Judy W3JUJ,
Secretary: Peter N4PVH,
Treasurer: Dave W4EJ,
Trustee #1: Bill W4SLC
Trustee #2: Scott K9SPJ*

Non Voting Committee Members:

*VE Liaison: Gerald, KN4CKL
Webmaster: PVH, N4PVH
Ham Chatter Editor: Mark Raysin, KG4GVJ
Susan Jones, WA4AKB
Dave Langley W4YDY (OM)*

NOT PRESENT:

*Public Relations/Historian: Sherry, KE4LZE
QSL/Equipment: Richard, W4JNC*

Items for discussion:

*No quorum was present. Notes from last meeting are included:
Please note: no December BOARD MEETING.*

—
*4 years of taxes paid by Terry.
Check book balance is \$3400, by Dave.*

—
*Scott K9SPJ going to talk in January 9th 2024 about repeaters at the meeting as others have not confirmed.
Thank you Scott.*

—
Sky warn training is being scheduled, more details to be announced.

—
*The Board would like to do evening and week end “hand on” kind of activities or visiting places like
VOA. Please let Beth know of your ideas.*

—
Dave suggested Batteries Plus speaker for next year.

—
Liability insurance is in effect Nov 1st.

Election Results:

*President Beth KN4FZB
VP Judy W3JUJ
Secretary Daryl Shaw N4OHK
Treasurer Dave W4EJ
Trustee #1 Bill W4SLC
Trustee #2 Scott W4SLC*

Awards will be announced at the December meeting.

Christmas Party Meeting is December 11 at 6:30pm at Emanuel Baptist Church, 1101 South Elm St., Greenville. Pot Luck, bring a dish please.

73, N4PVH



Secretary Notes on BARC 11/2023

Dear Members:

Thank you for the wonderful time being on the BARC Board in various positions for the last many years. I have graduated from just being a member, to being present at board meetings at Terry Monday's office, to being 2nd VP, to 1st VP, to President for 2 years and now finally Secretary. In that time we have had many challenges but we all still held on as a group. We had field days starting in the open field near Lowes, to the field at Firetower road, VOA site C, and finally at Oakwood school. The membership has waxed and wained and now grew again to the 70's. We have survived the worst pandemic in a life time of memories and as a group stayed together changing and adapting to the conditions. We added Zoom meetings as we could not get together in a pandemic but the silver lining of this change was that we could invite the most fascinating speakers we have ever had from all over the world with zero cost. They are mostly recorded on Vimeo for everyone's viewing pleasure. The link is on the web page under the meetings tab. We rewrote the web page to make it more secure and added a blog of interesting articles on various topics. We, as a group, experimented with antennas and radios and wrote about it in the blog.

The ARES trailer was renovated with varnished desks and floors. New radios were purchased and old ones sold to pay for the changes. The trailer is frequency agile with 2m, 70cms, HF, Aircraft, marine and a general receiver. Packet radio is installed but not functional for the moment. The roof of both trailers were painted with reflective paint and this cut the heat in the closed trailer in the sun from >150 degrees to 10 degrees above ambient air temperature, saving the equipment from heat stress. A solar panel was added to keep the battery charged and ready. 110v lighting as well as 12v LED lighting was installed. We have a 2000w generator as well as 12v battery power to run the radios. More needs to be done like adding Winlink on Raspberry Pi computers and a packed system like TARPNet or ARDN networks needs to be installed. Bigger solar panels and LiFePo batteries need to be installed.

The Oakwood School Ham radio room has been upgraded to better HF and 2m radios now connected to a fan dipole as the Yagi antenna on the tower was bent like a pretzel in the last hurricane. There are real opportunities to teach the kids of all schools using that room and station. There is a fantastic opportunity to put ham radio into the state of the art class room that teaches innovation in the STEM curriculum. We need hams that want to volunteer and show the kids the science of ham radio.

I want to thank all of you for the wonderful opportunity and fun I have had being on the board and doing all these things with our team. All of us together made these things become real. It is true that the more you put into the club or any activity, the more you get out of it. I have received a lot of pleasure and satisfaction from all these activities and encourage the reader to do the same. Make this YOUR club, participate fully. I will continue to be involved in the web page and the meeting but it is time to step back and let others become "**radio active**". 73 Peter, N4PVH



Gary NG9T's PARC President's Corner



Hi Everyone!!

Well, November has flown by like a fast runner. Now we are going to have a month of Christmas parties, shopping, spending time with family. I am looking forward to seeing all of my ham friends from Brightleaf, PARC, and CCARS (Carteret County Amateur Radio Society).

JARSFEST was a ton of fun this year, and the weather was perfect. I bought a small tuner to use with my Yaesu FT-891 and a 2m/70cm offset satellite antenna that needs a little TLC.

The PARC Christmas party this year is at Wayne KB1WE's QTH, on December 14th. I'm really looking forward to his hospitality and the group of friends that will be there.

I hope that everyone had a wonderful Thanksgiving, and that all of you are doing well.

See you all soon, and will hopefully hear you on the air!!

73

Gary Faust NG9T
President, Pamlico Amateur Radio Club

Greetings HPSNC Volunteers,**11/8/2023**

Here we are at the end of another year of ham radio public service events. Thanks to all of you, the season was a tremendous success. From the Odyssey of the Mind in March to the Tour de Femme in October (14 events in all), we fielded full crews, rain or shine. More than 50 individuals contributed almost 1,600 combined hours of service, equaling approximately \$30,000 in value! But the true value of your contributions is immeasurable.

This year, we added a few new names and call signs to the volunteer roster and a new event to the schedule – Gears for Goldens. I am looking forward to seeing that trend continue in 2024. One possible “new” event for next year is the American Diabetes Association 2024 Tour de Cure on May 18 in Asheboro. That’s a little outside of our regular area but I’d like to add it to our schedule if possible. If you are interested in helping with the event, please keep the date in mind.

As we have in past years, we are planning to gather volunteers for lunch at [McGregor Draft House](#) in Cary. The date for this year’s lunch is **December 2 at 12:00 p.m.** There is no agenda except to share stories and thoughts about the season and public service events in general. Please let me know if you plan to attend so I can ensure enough space for the group. I hope to see many of you there.

73,

Jeremy K2HJX
HPSNC Coordinator
919-523-9631
K2HJX@att.net

GREETINGS FROM THE HIGH COUNTRY**Nov 22, 2023**

This is the 88th newsletter sent to NC ARRL members.

I hope each of you has a Thanksgiving filled with joy and involves quality time with your family. 2023 is quickly coming to an end and for many persons there is a lot to be thankful for. For others, the year cannot end soon enough and for them their hopes are for a better year next year.

Firefighters are mostly grateful for the approaching storms which will help them extinguish some massive wildfires. One fire, in Cherokee County has burned over 5500 acres and is 80% contained while a fire in Haywood County has burned 1800 acres and is 42% contained.

If you want to see the extent of the wildfire problem in North Carolina in real time, go to <https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fncfresponse.com%2F&data=05%7C01%7C%7Ce6983d5399024747b23f08dbebbbbf44%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638362963835303058%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6IklhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=uUNcmxtbjZUldOocogIvuBQ3ORXfSKjsX%2FTauwiY1%2FEc%3D&reserved=0> to view an interactive map that displays fire locations, sizes of the area burned as well as how close firefighters are to extinguishing the fire.

Red Cross and Emergency Managers are likely thankful, relieved and hopeful that the hurricane season will soon end without displacing thousands of people and causing millions in damages.

We live in paradoxical times, hoping that floods don't occur while also hoping for needed rain to end the extended drought that he have been experiencing. Information on the extent of the drought is updated and posted each Thursday at <https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ncdrought.org%2F&data=05%7C01%7C%7Ce6983d5399024747b23f08dbebbbbf44%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638362963835303058%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6IklhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=0ez31mL%2FjP0UNvI3IX9eV1fNykkBhKLePH2FsFI9WIA%3D&reserved=0>. At the time of the most recent report (November 14), portions of five counties had experienced normal rainfall while 95 counties had below average precipitation. Nine counties in the far southwestern portion of the state were rated as being in a severe drought. The remaining counties all experience varying degrees of abnormally dry conditions.

Fall weather has definitely arrived. The leaves are off the trees and the weather people are hinting that the current precipitation may be mixed with snow flurries in a couple of days. The ski slope owners are anxious to see real snow and lots of it since the holiday season is when a lot of their money is made from people who come to the mountains to ski. Man-made snow requires temps below 38 degrees for the snow guns to spray tiny droplets of water mixing with high pressure air to create snow crystals that cover the ground. After a couple of days of blowing snow, particularly on cool overnights, the slopes will open even though there are only narrow strips of snow on the ski runs.

SKYWARN RECOGNITION DAY

On the topic of weather, readers are reminded that December 2 is designated by the National Weather Service and the ARRL to recognize the importance of trained and registered spotters who report local weather conditions to the NWS. Every NWS forecast office has a SKYWARN program with on-line as well as in person training that is offered to prospective spotters by the NWS forecasters. Information about the SKYWARN

training program can be found at

<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.weather.gov%2F2FSKYWARN&data=05%7C01%7C%7Ce6983d5399024747b23f08dbebbbbf44%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638362963835303058%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6IjEhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C&sdata=dD5WXp%2FTbmxix0ZqqkPIBkBMV2k8o0Qa%2BQzYCBwhKtQ%3D&reserved=0>.

Many NWS forecast offices will be hosting amateur radio operators on SKYWARN RECOGNITION DAY, stations which will be on the air on many of the bands for contacts with amateur operators around the country. Details about the SKYWARN RECOGNITION DAY events can be found at

<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Farrl.org%2Fnews%2Fskywarn-recognition-day-is-ready-to-go&data=05%7C01%7C%7Ce6983d5399024747b23f08dbebbbbf44%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638362963835459310%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6IjEhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C&sdata=IISptsrWJ1cwlVAzzKFAiQB18IOoU4dxx6LXR09jqqu%3D&reserved=0> .

ARRL MATTERS

FCC ACTS ON REMOVING BAUD RATE LIMITATIONS ON HF BANDS

Quoting Bill Morine, N2COP, Roanoke Vice Director, “after ten long years the FCC has finally acted”. At the November 13, FCC meeting, the FCC voted to remove the symbol rate limitation rule that has prevented use of Factor 4 on amateur bands except under special temporary authority granted by the Commission during hurricanes, wildfires and other large scale disasters. Once the new rules are published in the Federal Register and after whatever time table is listed in the Federal Register, but not until then, amateurs may use Factor 4 modes.

Key to the new rule is that the bandwidth of various digital modes cannot exceed 2.8 KHz regardless of the digital mode an operator chooses to employ. Information on the [FCC action](#) .

Don't jump the gun until you are informed about the actual effective date of the new rules.

DEADLINE APPROACHING FOR FILING COMMENTS TO FCC REGARDING 60 METERS

Section Managers have been asked by ARRL HQ to remind amateurs that the deadline is rapidly approaching for filing comments on the FCC's proposed rules changes concerning 60 meters. Presently, amateur radio is a secondary user on 60 meters behind various US Government agencies.

At present there are five frequencies specified as channels on which communications are permitted and a 100 watt effective radiated power limit applies. The FCC has proposal seeks to eliminate the designated channels and creates a 15 KHz segment where operations would be limited to 10 watts effective radiated power. ARRL has made an alternative proposal that would keep the 100 watt power limit, add the 15KHz band between existing channels 2 and 4 (on 60 meters) as well as retaining the existing channels 1, 2, 4 and 5.

ARRL is urging members to write to FCC prior to the November 28 filing deadline and express support for the

ARRL proposal. Guidance on how to communicate to FCC on this matter can be found at <https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.arrl.org%2F60-meter-band&data=05%7C01%7C%7Ce6983d5399024747b23f08dbebbbbf44%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638362963835459310%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IklhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=6Nm8gF31RX79cdEmuq%2BDzFYC%2BDs8t4fzFPFd%2FTVuj0w%3D&reserved=0>.

ESTATE PLANNING

A significant number of hams die each month. As difficult as the topic for discussion, it is a fact that a lot of hams have accumulated gear over decades which surviving family members may have a very limited understanding of what the equipment does and what the ham wants done with the equipment. In our local club two members left all their equipment to the club and the gear was sold to raise money for the club. Have you made clear your wishes as to what should be done with your station upon your death?

ARRL has prepared an estate planning guide to help hams make clear their wishes about their estate. The guide is free and is in the form of a pdf which you can download from the ARRL website. In order to begin organizing your thoughts about your wishes about disposing of your ham gear, you are urged to download [the guide](#).

UPDATING INFORMATION ABOUT CLUBS

RL HQ requests that clubs update information about their club so that visitors and prospective members can find out when and where meetings are held and who to contact for information about classes and testing. Club presidents are asked to assign to an ARRL member responsibility for updating information that is posted and publicly available at ARRL. Information on [how to complete the update](#).

BALLOONS OVER NORTH CAROLINA

I am happy to report that several community colleges and at least one four year university have become active in launching high altitude balloons as part of their goal of getting students involved in the HAB program.

Students learn about lighter than air balloons, how to track the balloons using APRS, and engage in chasing after and recovering their balloon when it descends back to earth. Jimmy Levan, N4SZF of Statesville is coordinating the nine community colleges involved (Edgecombe Tech, Central Piedmont, Central Carolina, Durham Tech, Wilson Community College, Catawba Valley CC, Mitchell Community College, Rowan-Cabarrus CC, and Wake Tech) along with public schools near these community colleges. A goal is to get students licensed as hams and to have ham radio be a part of the STEM programs in the local schools.

Not to be outdone, Daniel deCourt, W3WDD, is working with Western Carolina University to involve college students in ham radio and high altitude balloons.

Both Jimmy Levan and Daniel deCourt deserve numerous attaboys for investing their time to work with students. Contact Jimmy and/or Daniel if you want to be part of this project. Remember that getting more young people interested in amateur radio will determine the future of amateur radio. According to some accounts, the average age of licensed hams today is around 70 years of age. Ten years from now many of those operators will have passed away or will be likely to have health issues causing them to be relatively uninterested in amateur radio.

Older ham operators may want to look over the Estate Planning guide listed above and consider working with

a local school, donating ham radio equipment to help the school get a student amateur radio club started as well as working with a science teacher at the school.

NEW HAMS AND UPGRADES

Data from the FCC indicates that during October 2023, 54 persons with addresses in North Carolina earned the Technician license and 6 persons earned the General class license. These numbers refer to persons who did not previously hold any amateur license. FCC data indicates that 16 persons with active licenses upgraded to General and 13 North Carolina residents upgraded to Extra.

Overall, FCC data indicates the following distribution of licensees in North Carolina on November 21, 2023 was Novice (144); Technician (10293); General (5868); Advanced (1012); Extra (5141); Total = 22458.

UPDATES TO NCPRN DMR NETWORK

If you are interested in participating in the NC PRN DMR system which is described at ncprn.org, there are some changes in the works.

- a. The Mecklenburg Amateur Radio Society has taken on responsibility for the Charlotte PRN repeater which will be relocated from East Charlotte to downtown site in the near future after antenna equipment arrives.
- b. Work is underway to add a DMR repeater in Cullowhee in order to provide in-building coverage on the Western Carolina University campus.
- c. Another PRN repeater is going to be added in Yancey County in order to provide extended coverage in and around Burnsville. Weather conditions may affect the timetable for adding the repeater to the PRN network but the repeater is operating in test mode on the PRN system and is communicating properly with the CBridge (server) during the scheduled High Country UHF Digital Net which is held every Tuesday night at 8 pm on (presently) 16 linked repeaters in Western North Carolina that are located in Roanoke, Wytheville, Fancy Gap, West Jefferson, Wilkesboro, Boone, Sugartop, Lenoir, Spruce Pine, Albemarle, Wingate, Gastonia, Hendersonville, Sylva, Cashiers, and Franklin as well as the repeaters discussed in items a, b and c in this section of the newsletter.
- d. If you know of a site which is not covered now with a PRN system repeater, please contact me. We are looking for sites that do not involve rent or power bills. It would be ideal to have a repeater site that has a line of site pathway allowing 5 GHz Ubiquiti data connection to the home of a club member.

Operators of the Eastern HealthCare Preparedness Coalition (based in Greenville NC) as well as the WNC system which operates DMR repeaters in Morganton, Marion, Asheville, Hendersonville, Waynesville and Franklin and Mars Hill are invited to submit information they wish to have included in a future issue of the NC ARRL Newsletter. Please note that the WNC system is not part of the PRN system.

AM INTERFERENCE SOLUTION IN EV AUTOS COULD COST BILLIONS

Some readers may already know a Washington political conflict over whether EV automobile manufacturer will be allowed to omit AM radios in new cars. Several manufacturers indicated that AM car radios in electric vehicles will pose serious challenge due to rf news coming from within the auto from the electronic control systems. Carmakers claim that the vehicle control systems may be adversely affected by spurious radiation from AM radios installed in the EV automobile.

Some members of Congress have introduced bills (not yet passed as law) to mandate that automobiles imported or sold in the United States must have working AM radios. Broadcasters, not surprisingly, favor continuing to have AM broadcast band radios. Automobile manufacturers state that billions of dollars are needed to solve the interference problem.

Information on the positions taken by parties on each side of the [controversy can be found at](#) [as well as](#). Both sides seem to have large amounts of cash so that you can expect intense lobbying on both sides.

CLOSING COMMENTS

I hope you and your families have the opportunity to enjoy good food, warm fellowship, good tv reception and that you get to hug your grandchildren during this day that is set aside for us to reflect on the many good things that have come our way. Unfortunately the blessings that many of us have experienced are not shared by everyone in society.

Take a moment and consider if there is something you can do to improve the plight of the most unfortunate persons in our society. Say thanks to the fire, police, rescue, EMS and military personnel who will be working tomorrow on Thanksgiving Day while most of us can relax and have few worries.

Best wishes,
Marv, WA4NC
Boone

ARRL North Carolina Section
Section Manager: Dr Marvin K Hoffman, WA4NC
wa4nc@arrl.org

W1AW 2023/2024 Winter Operating Schedule

Morning Schedule:

Time	Mode	Days
-----	----	-----
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 2045 UTC - (10 AM to 3:45 PM EST)

Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	DIGITAL	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	DIGITAL	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675 28.0675 50.350 147.555
DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095 28.095 50.350 147.555
VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590 50.350 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM
CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM
CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

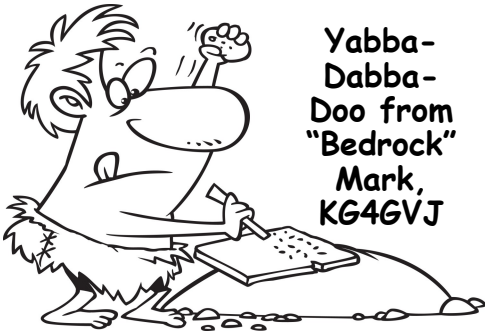
All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to w1aw@arrl.org.

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 2045 UTC (10 AM to 3:45 PM EST). Be sure to bring a reference copy of your current FCC amateur radio license.

The weekly W1AW and monthly West Coast Qualifying Runs are sent on the normal CW frequencies used for both code practice and bulletin transmissions. West Coast Qualifying Run stations may also use 3590 kHz.

Please note a W1AW Qualifying Run replaces a regularly scheduled code practice transmission on any particular day and time.



Hi Folks,

MERRY CHRISTMAS! Well, it's a bit early when you get this, But it's well meant. I hope you will enjoy the Day(s) and it have a great time with family and friends. At this time, my wife is hoping to be home and with the kids joining us. That's not easy with work and the few hours driving to come down from their homes.

For those with Grandkids, kids or neighbor kids, don't forget you can let them talk to Santa by radio. If you don't have a license for the bands he's on, ask another ham to help.

I'm hoping to make a few changes on the format of this newsletter next year. Which means I have better get busy. This newsletter had started just for BARC, but now serves two clubs. I've already started on some changes, but I'll need to buckle down, ask more questions, then try some of the ideas and see how it turns out. Members are invited to add articles for us to use. I use ARRL Email's to help provide information to those who don't get them and to also remind folks on some events coming up that they might try for.

It's been a busy month and not at home for part of it, so I haven't had much time to get some older articles for you. I hope to do better as I prepare for 2024.

73 to all,
and to all a good night.

Interested in the Ham Chatter?

If you are not receiving *Ham Chatter* email notices and would like to receive them, please send an email to hamchatter@w4amc.com so we can get your email address and put you on the list. You may miss some important BARC or PARC notices. - *KG4GVJ*

Help the Editor.

Do you have something to say or post? Want to write an article? Any ideas? Comments and notice's of help needed (Personal or club needs or activities? Can be BARC related or other Club's) are welcomed. Have interesting photo's or articles? Done something related to radio? Please let us know and we may add them to the Ham Chatter and web page Blog.

Send it along to the [Editor at Ham Chatter](#). We will see if we can fit it in soon.

Be a Net Control

Volunteer to help with the Weekly Net for BARC, or other nets. All are welcomed. It's great practice for if you need it for later, it's like First Aid training. A script is available to read off of to help in the progress on the web site.

PUBLIC SERVICE?

Website for NC hams who are interested in public service, Check it out at <https://hpsnc.org/>.

FARC

FARC Newsletter is available at <http://www.dwepe.com/FARCNewsletters/y2023m11.pdf>
They also have great articles and along with want ads.

LICENSE STUDY SESSION VIA ZOOM
Ham Radio Zoom Training Courses 2022-2023

The following is our schedule of General and Technician class courses from November 2022 through September of 2023. (FARC) Note that we skip December after the 7th.

General:

Dec 7

Technician: No posting at this time.

Classes are held on Wednesday evenings from 6:30 - 9:30 pm.

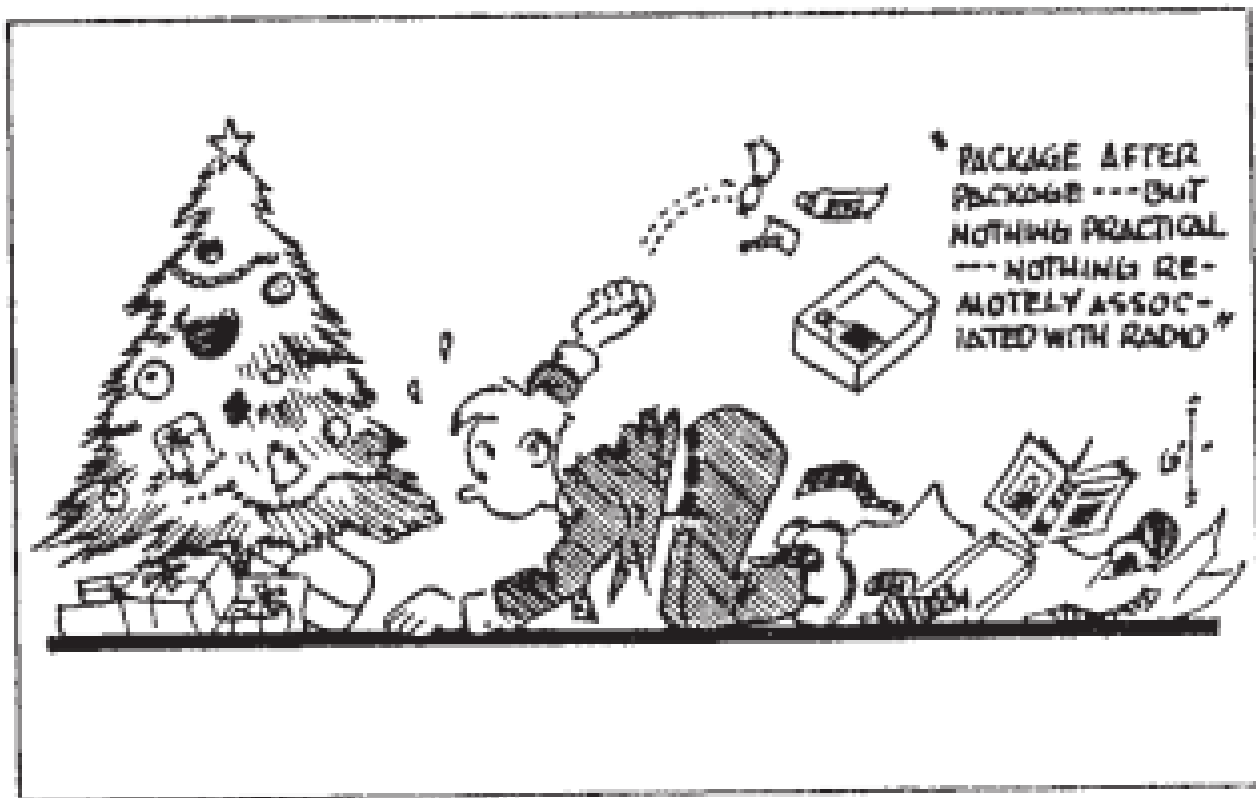
The Gordon West Technician class or General class license manual is recommended in conjunction with online hamstudy.org.

Instructors:

KK4RR, AJ4TF, KA4JAH, AE4TI, K4AX. No charge for the classes.

Preregistration required: contact Richard Weinbaum at KK4RR@mac.com.

Thanks and 73,
Keith - KA4JAH



January, 1942

All Local Area FCC Exams:**WINSTON-SALEM NC**

2023

2ND Monday, 6PM at Red Cross on Coliseum Drive

No Exams are scheduled in December, the Club has its Christmas party. Sponsored by the Forsyth Amateur Radio Club (FARC), Red Cross Chapter House, 690 Coliseum Drive. Pre-Registration Only. Exams start at 6:00 PM. Bring 2 forms of identification (one with picture). Pre-registration, FRN number, are required before test session date. NOTE: COVID-19 protocols still in effect. Please bring the ORIGINAL, COPY of any CSCE's and signed license to the test session. Exam fee is \$12.00. For more information, contact: Dale Mierisch-WB9SZL, [Email](mailto:DMierisch@w4amc.com), [Phone 336-766-9675](tel:336-766-9675)

The following testing dates and sites are from:

<https://www.w4vec.org/ar.html>

GREENSBORO NC**TESTING 2ND SATURDAYS**

All sessions begin at 9:00 AM Hinshaw United Methodist Church, 4501 Gate City Blvd, Greensboro, NC 27407 ([MAP](#)) [For more information contact: David Macchiarolo-AJ4TF EMAIL](#)

[336-420-9424](tel:336-420-9424)

HIGH POINT NC**TESTING LAST SATURDAYS**

All sessions start at 10:00 AM. Location: Hickory Chapel Wesleyan Church, 301 Hickory Chapel Road (off MLK Jr Drive) High Point, NC 27262 [MAP](#) [Pre-registration is required. Contact: David Macchiarolo Email 336-420-9424](#)

KERNERSVILLE (?)**King/Rural Hall, NC**

Piedmont Triad VE offers free of charge testing, at the King Public Library, 101 Pilot View Drive, King, NC. This is a free of charge exam session for December 2023

subject to the \$35.00 fee to be paid to the FCC. Contact Jeff Webset at webstej <at? windstream <dot> net for next exam.

SALISBURY NC

PRE-REGISTRATION ONLY

Bostian Heights Fire Dept. Community Room

[\(MAP\)](#)

8211 Old Concord Road Salisbury, NC 28146

For more information contact:

Fred - WB4QOC [EMAIL phone 704-534-1031](mailto:WB4QOC@w4amc.com)

Last updated 1/26/22

THOMASVILLE NC

Tri-County Amateur Radio Club

Test Session at 9:30am, Davidson-Davie Community College, 297 DCC Rd. Thomasville, NC 27360 ([MAP](#)) Building: Finch *Building marked with RED arrow), room 221, Preregistration and FRN number is required before test session date. NOTE: COVID19 protocols still in effect. For more information contactL Rick Weinbaum, KK4RR, cell: 446-687-8001 email: weinbaum <at> mac <dot> com. Last updated 6/1/22

New Ham? New Upgrade?**Live in Forsyth County?****Or just want to join FARC?**

For new hams, or upgrades, who have taken an exam, please complete the information on the FARC application (usually the next-to-last page of the Newsletter), if you have not already done so, for a free membership to the Forsyth Amateur Radio Club (FARC). Mark the form "New Ham - Exam date". Even if this is not an FARC exam session, since we are limited in exam offerings at this time. Once the form is completed, bring to the next club meeting, or please scan and email to secretary <at> w4nc <dot> com [and an email to newsletter <at> w4nc <dot> com].

Exams usually will be offered before the FARC meeting (2nd Monday at the Red Cross) and start at 6:30 PM in room 109 at the Red Cross building **see above to make sure a session is offered**. You are encouraged to arrive early at 6:20 PM Preregistration is required at info <at> w4nc <dot> com.

[From the FARC Newsletter](#)

ARES/AUXCOMM News



The five USB channelized 60-meter frequencies are available for interoperability (communication between services). By convention, Channel 1 is designated the calling channel. This convention is established to train the amateur radio community to reach out on Channel 1 in times of national emergency, for information from the federal government. The amateur radio community uses 60 meters on a secondary basis with federal agencies. This and similar 60-meter interoperability exercises are conducted during the first full week of each month. More information [here](#). - *ARRL News*

ARES Resources

- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Word\]](#)
- [ARES Plan](#)
- [ARES Group Registration](#)

Note from Editor: This section is added for information for those interested in Emergency services. Pitt County doesn't have a active ARES Presence. But the practices and lessons available can be useful if working for or helping pass traffic in times of need.

Important Links

ARRL Home: www.arrl.org

Find an ARRL Affiliated Club:
www.arrl.org/clubs

Find Your ARRL Section:
www.arrl.org/sections

Find a License Class in your area: www.arrl.org/class

Find a License Exam in your area: www.arrl.org/exam

Find a Hamfest or Convention:
www.arrl.org/hamfests

Email ARRL Clubs:
clubs@arrl.org

ARES® Briefs, Links

The Great ShakeOut is an annual international emergency response exercise for earthquake safety and preparedness conducted on the third Thursday of every October. Designed to raise awareness, the [Great ShakeOut](#) provides communities with an opportunity to prepare, plan, and educate citizens on earthquake safety. The United States Geologic Survey (USGS), FEMA and the National Science Foundation are national sponsors. This year's event was held on October 19. Amateur radio operators participated. Here are some stats on the 2023 Great ShakeOut:

- USGS received and mapped over 230 DYFI entries via the ShakeOut Scenario DYFI (Did You Feel It?) website (<https://earthquake.usgs.gov/data/dyfi/>).
- More than 1,400 DYFI reports were sent by radio operators using RadioMail, Winlink, and PAT.
- Operators from the US and Puerto Rico and US Virgin Islands, Canada, Guatemala, Honduras, France, Belgium, the Netherlands, Norway, Germany, Austria, Italy, Poland, the Philippines, Australia, and New Zealand submitted DYFI reports.

Based on the Winlink CSV output, geolocation remains a challenge for Winlink submissions. In about a third of the reports, there were significant differences between the entered address and corresponding geocoordinates. See the ShakeOut scenario [Community Internet Intensity Map](#) and the [global map](#). The maps show ShakeOut Scenario DYFI website and radioMail, Winlink, and PAT submissions. -- ARRL District Emergency Coordinator Oliver Dully, K6OLI. Dully is DEC for ARES LAX Northeast, which provides amateur radio communications backup for 911 receiving hospitals in northeastern Los Angeles County.

[Winter Field Day](#) is January 23-24, 2024. According to its website: "Winter Field Day (WFD) is a communications exercise. WFD is held on the last full weekend in January. WFD can be worked from the comfort of your home or in a remote location. You can participate by yourself or get your friends, family, or whole club involved. Winter Field Day is open to participants worldwide. Amateur radio operators may use frequencies on the HF, VHF, or UHF bands and are free to use any mode that can faithfully transmit the required exchange intact. Similar to the ARRL Field Day, bonus points are earned in several ways, including using non-commercial power sources, operating from remote locations, satellite contacts, and more."

2023 SKYWARN™ Recognition Day is December 2

The popular annual SKYWARN™ Recognition Day (SRD) will be held on December 2, 2023, from 0000Z to 2400Z. SRD was developed in 1999 by the National Weather Service and ARRL. It celebrates the contributions that volunteer SKYWARN radio operators make to the National Weather Service. During the day, SKYWARN operators visit NWS offices and contact other radio operators across the world.

California Amateur Radio Operators Conduct Successful Simulated Emergency Test "Red Skies"

Los Angeles, CA - On September 30, 2023, about 100 amateur radio operators living along a 500-mile-long earthquake-prone corridor in California participated in a regional Simulated Emergency Test (SET) exercise named Red Skies. The exercise goal was to leverage the speed and accuracy of email-over-radio reporting to provide a common operating picture to all levels of stakeholders in the event of a widespread disaster.

The exercise scenario called for earthquakes that damaged power lines and sparked fires that grew quickly. Amateur radio operators used their Winlink, PAT and Radiomail stations to provide USGS Did You Feel It? (DYFI) reports and other situational reports, such as the Field Situation Report (FSR) and ICS-213 General Messages. About 1,000 Winlink reports were collected and analyzed by ARES local leadership at the county level and were then sent to the Regional Coordinator Dennis Kidder, W6DQ, operating with a half-dozen hams

at his home superstation near Ridgecrest, CA, far outside the exercise damage-affected area where he operated a simulated regional level Emergency Operations Center (EOC). Kidder and the Ridgecrest-area hams who staffed the simulated EOC always have real-life earthquake experience because they endured an earthquake swarm in 2019 with the strongest shake having been a magnitude 7.1 quake.

To challenge the more experienced operators with injects, exercise organizers sent bulletins live via radio email to operators in the field during the exercise. "The bulletins were designed to mimic an increasing operational tempo and a decreasing safety situation for the operators," said Oliver Dully, K6OLI, District Emergency Coordinator for ARES LAX Northeast. "We expected operators to triage and react to the bulletins. Many stations found it both challenging and fun. Successful stations relied on teamwork to address the bulletins."

The exercise helped prepare radio operators and the community for real-world emergencies by stress-testing radio networks and Winlink infrastructure and by training operators to deal with challenging and chaotic conditions. Focusing on hazards like earthquakes and fires injected relevant real-world conditions into the exercise.

The SET also exposed gaps in training and limits to the technology. For example, combining single messages into Winlink software-generated CSVs reduced the overall traffic volume to the regional coordinator by 83%. However, many duplicates in the CSVs meant the traffic sent over HF could have been reduced even more.

"Clearly, sending 1.5 MB of traffic with Winlink over HF is a lot," said Dennis, W6DQ. "We want to encourage all radio operators to reduce on-air traffic as much as possible. Using consistent CSV file names, sending one type of CSV per message, and using time boundaries on the exported CSV will go a long way toward using circuit capacity more efficiently."

The unique challenge of the Red Skies SET was that many stations throughout California operated at the same time. "This was a synchronous and time-bound exercise," said Dully. "Similar to what we expect in the response phase of an incident. Operators used whatever technology would be available to them, including AR-EDN mesh, VHF/UHF/HF Winlink, and even StarLink. LAXNORTHEAST net controls handled 292 local messages in 3 and a half hours. One of our best results was that operators leaned on their teammates for support when traffic volumes became challenging. Teamwork made the dream work." Many participants deployed to hospitals and other facilities as part of the exercise.

The exercise was a great success. It exceeded the objective of aggregating, analyzing, and passing on local traffic, built positive working relationships among the groups involved and provided fresh perspectives on future training needs. It also brought together groups from the Mexican border to Sacramento under a common ICS structure with a shared Incident Action Plan (IAP).

Participants in the regional after-action meeting agreed that more training was desirable and expressed their eagerness for the next exercises to build on the success of Red Skies.

For an in-depth discussion of the Red Skies Exercise, see Dennis Kidder's, W6DQ, [Red Skies RATPAC presentation](#). -- ASEC San Joaquin Valley Section, EC Eastern Kern County (California) ARES Dennis Kidder, W6DQ

It Just Takes One

"It just takes one," was the mantra of Steve Smith, W9GPI, ARRL Emergency Coordinator for Lee County, Florida. That "one" hit in late September 2022, when Hurricane Ian slammed into southwest Florida with 160 MPH winds making it a rare category 5 storm. The worst part of the storm passed over Lee County with barri-

er islands of Fort Myers Beach and Sanibel particularly hard hit. As destructive as the winds were, the water was worse, with 12-to-15-foot storm surge inundating much of the coast and inland area. In the end, 150 lives were lost and damages in the state exceeded \$100 billion with much of the local area left without power and water.

Smith called Lee County ARES into service beginning on Monday before the anticipated landfall of Wednesday. Initially, it appeared Lee County would be brushed by the storm. When landfall became apparent, Lee County ARES members were positioned in 12 emergency shelters, local hospitals, and at the area's two Emergency Operations Centers (EOC). Smith took the lead at the Lee County EOC, where he manned the net, which provided communications with all the ARES members and sub nets. He spent over 72 straight hours at the EOC, sleeping on a cot when necessary. He was helped by a couple of ARES members who took over the main communications duties while Steve solved issues for the shelters or when he took a break.

When All Else Fails

The ARES slogan "When All Else Fails" came into play following the historic storm. During the storm, amateur radio became the only communications with shelter staff at several of the shelters. The system had been designed to rely on phones and internet to maintain communications with the EOC. Both failed early into the storm. Steve's ARES members became the link back to the county leaders.

The massive winds and storm surge washed out the causeway serving Sanibel Island and Captiva Island. The post-storm analysis predicted it would take months to repair. Steve and Sanibel officials came up with a plan to help with communications for the city government. During Hurricane Irma in 2017, the city of Sanibel lost communications. They noticed, however, that an amateur radio repeater on the island survived. Several Sanibel employees took classes and became licensed operators with the thought they could help if another storm hit. Hurricane Ian was that storm.

First, an assessment was made that the repeater on Sanibel survived and could be operated on emergency power. Second, the Sanibel city government (having lost their city hall in the storm) set up temporary offices at a hotel on the Florida mainland in Fort Myers. Steve worked with volunteers to procure a radio and antenna. He and a crew were able to get the rig installed on the hotel, and the city had communications with the island, all run by licensed amateur operators. Yet another example of "When All Else Fails."

Steve and the entire ARES team received high marks from local officials including those from Lee County. When Steve took over the EC slot, he created procedures and was instrumental in getting Lee County to fund the creation of "go boxes" for ARES use that support VHF/UHF communications and Winlink. He also was able to get permanent antennas installed on most of the designated emergency shelters, funded by the county.

Steve is an electrical engineer by training and worked in marketing for manufacturers like Square D during his career. He was also an EMT and served part time in law enforcement. As part of the Fort Myers Amateur Radio Club (FMARC) in addition to his EC duties, he served as Chair of the Education and Nomination committees as well as being a member of the VE team. In mid 2023, health issues forced the former Fond du Lac, Wisconsin resident to step down from his post as EC. Steve remains active in ARES and as a mentor to many in FMARC. - Jim Walch, K4DIP, Fort Myers, Florida

K1CE for a Final: Keep Feed Line Lengths ASAP! (As Short as Possible)

You can teach an old dog (I turn 70 next month) new tricks. Actually, this isn't a new trick or even a trick at all. After moving my dipole antennas much closer to my station, I was able to significantly shorten my feedlines (read: 20 feet versus my previous runs of some 60 feet). I also switched to RG-8, previously RG-58. The increase in gain was of epic proportions and I'm so glad I did it. Think about shortening your feedline runs and switching to the more efficient RG-8 coax. Then, watch your S-meter and signal reports ping up a few notches!



Emails



ARRL on the Purpose of Amateur

For over 100 years amateur radio and ARRL — the National Association for Amateur Radio® — have stood for the development of the science and art of communications, public service, and the enhancement of international goodwill. Amateur Radio's long history and service to the public has solidified the well-earned reputation that "Amateur Radio saves lives."

Amateur Radio Operators, due to their history of public service, their training, and the requirement that they be licensed by the FCC have earned their status as a component of critical communications infrastructure and as a reliable resource "when all else fails."

Amateur Radio is about development of communications and responsible public service. Its misuse is inconsistent with its history of service and its statutory charter. ARRL does not support its misuse for purposes inconsistent with these values and purposes.

ARRL Podcasts

Listen to [ARRL Audio News](#), available every Friday. ARRL Audio News is a summary of the week's top news stories in the world of amateur radio and ARRL, along with interviews and other features.



ARRL Audio News is distributed through [Blubrry.com](#). You can subscribe to the podcast via your IOS or Android mobile device with your favorite podcast app, or you can listen and download episodes directly from the Audio News page at Blubrry. Each week, the current edition is available at [ARRL Audio News](#).

ARRL Podcasts Schedule

On the Air
Sponsored by [icom](#)

The Value of Contest Clubs

"Contesting encompasses so much of the hobby," says seasoned contester Craig Thompson, K9CT, "from station building, learning how to operate, understanding propagation, knowing the rules, learning from your peers," that there's something in it for every ham radio operator. As current member and former president of the Society of Midwest Contesters, Craig knows the ins and outs of a running a

contest club and ensuring that the value proposition makes sense to the average member. In this episode, Craig talks about why you might want to get involved with a contest club, what it entails, and how these specialized clubs stir up on-air activity that benefits every ham. This discussion extends the November/December 2023 On the Air, "Joining a Contest Club," by Leanna Figlewski, KC1RMP.

The *On the Air* and *Eclectic Tech* podcasts are sponsored by Icom. Both podcasts are available on iTunes (iOS) and Stitcher (Android) as well as on Blubrry - [On the Air](#) | [Eclectic Tech](#)

Amateur Radio in the News

["Shooting for the stars: Marietta students speak with astronaut aboard International Space Station"](#) / Atlanta News First/ANF (Georgia) October 24, 2023 -- A.L. Burruss Elementary School in Marietta, Georgia.

["Detroit Lakes Amateur Radio Club installs commemorative plaque to Mark Knutson"](#) / KFGO (North Dakota) October 28, 2023 -- The Detroit Lakes Amateur Radio Club is an ARRL Affiliated Club.

["Community members recognized for helping create Clipper Amateur Radio station at Columbiana High"](#)

[School](#)" / Salem News (Ohio) November 1, 2023 -- Columbiana High School K8LPS Clipper Radio Club project

["A look at the questions Valley Stream South students sent to the International Space Station"](#) / LI Herald (New York) November 3, 2023 -- The Long Island Mobile Amateur Radio Club is an ARRL Affiliated Club.

["Radio enthusiasts flock to 75th annual 'Hamarama Hamfest' in Ardmore"](#) / KXII (Oklahoma) November 6, 2023 -- 75th annual 'Hamarama Hamfest' in Ardmore, Oklahoma.

["Homecoming complete for Detroit Lakes Amateur Radio Club"](#) / Detroit Lakes Tribune (Michigan) November 6, 2023 -- The Detroit Lakes Amateur Radio Club is an ARRL Affiliated Club.

["Amateur radio operators test skills at statewide disaster drill"](#) / The Advocate (Louisiana) November 7, 2023 -- The Ascension Amateur Radio Club is an ARRL Affiliated Club.

["Antenna goes up for student-run HAM radio station at University of Scranton"](#) / WNEP (Pennsylvania) November 10, 2023 -- The University of Scranton Amateur Radio Club, W3USR

"Announcements

Amateur Radio on the International Space Station (ARISS) is planning their 40th anniversary celebration conference for February 22 - 24, 2024. The Positive Impact of Amateur Radio on Human Spaceflight: 40th Anniversary Conference will be held at the Center for Space Education: Astronauts Memorial Foundation, located adjacent to the NASA Kennedy Space Center Visitors Center in Florida. Organizers hope to gather volunteer teams, astronauts, space agency officials, educators, and space and amateur radio

enthusiasts to attend the event. For registration information and special event pricing at local hotels, visit the event website at <https://www.ariss.org/>, and choose the drop-down menu tab labeled 40th Anniversary. ARISS is a cooperative venture of international amateur radio societies and the space agencies that support the ISS. In the US, participating organizations include NASA's Space Communications and Navigation program (SCaN), the ISS National Laboratory -- Space Station Explorers, [ARRL](#), and AMSAT.

Amateur Radio Operators Provide Post-Hurricane Communications in Mexico

Radio Amateurs are providing communication services to and from the affected areas in and around Acapulco, Mexico.

On the morning of Wednesday, October 25, 165 mile-per-hour winds from Hurricane Otis knocked out all communications and unleashed a nightmare scenario in Acapulco.

The area is home to roughly 800,000 people.

Radio Club Queretaro member Ruben Navarrete Galvan, XE1EC, told ARRL News that amateur radio operators are still active with multiple operations, and they are receiving citizen requests to obtain information on the whereabouts of their relatives.

"We keep an online database with these requests that we share with the different hams participating in the operation. Read-only access to this database is provided to the authorities who might need it, too. We also transmit this information to hams deployed in the Acapulco area via HF," Galvan said.

Additionally, hams in the Acapulco area are trying to locate civilians using their own resources. Some of these hams are operating their equipment on battery power, while others have access to generators. Accessing many areas in the region has been a challenge due to the amount of debris blocking travel

Amateur radio operators have also been receiving

requests from Acapulco residents to call their relatives and let them know they are fine. Those requests are transmitted via HF to the Emergency Net Operator, and then the call is made to the family members.

Galvan also reported that hams have been providing communication between state agencies and their field personnel deployed in the Acapulco area. "At least three state agencies have hams on their teams. This is the case for the state of Durango, Morelos, and Santiago de Querétaro. We have been communicating their messages to their central coordination via HF relays. Requests for specific requirements have been escalated to the support teams. Air medical services have been directed to areas that were not being attended," he said.

Hams are also helping in other areas, including:

- Repairing a damaged repeater on Altzomoni at the Izta-Popo Zoquiapan National Park to support communication efforts in certain areas of Guerrero
- Deploying donations from a ham in Arizona, including a UHF repeater, solar panels, and 50 handhelds, to the affected areas.
- Getting the state agency's mobile stations back on the air and reinstalling the HF antennas that were damaged

Emergency Communications Coordinator International Amateur Radio Union Region 2 Emergency Communications Coordinator Carlos Alberto Santamaría González, CO2JC, said frequency protection has been requested for the following bands and frequencies

- 80-meter band: 3690 kHz
- 40-meter band: 7060 and 7095 kHz
- 20-meter band: 14.120 kHz

Great California ShakeOut Drill Reported a Success

ARRL Editor's Note:

Tuolumne County Amateur Radio and Electronics Society (TCARES) members Rich Combs,

KN6HSR; Ned Sudduth, K6NED, and Toni Sudduth, K6TNI reported that the October 2023 Great California ShakeOut exercise was an "outstanding" success. Here is their story as reported to ARRL News:

"This is a drill. Drop! Cover! Hold on!" was the mantra for the Great ShakeOut exercise on October 19, 2023, at 10:19 AM in Tuolumne County, California.

The Great ShakeOut is an annual international event that promotes awareness of how to prepare for and react to an earthquake. For the past 2 years, TCARES has used this event as an opportunity to test our ability to provide backup communication for the county public safety agencies. Considering that over the past year there have been two instances where primary communication systems went down -- one due to a fire, and the other due to a damaged T1 fiber optic cable -- this was a timely opportunity. It is a great chance to partner with first responder agencies, build trust, and develop awareness of mutual capabilities and needs.

There was an amateur radio operator stationed at the Tuolumne County Emergency Operations Center, which was operated by the Office of Emergency Services. After a preparatory simulated 5.0-magnitude San Francisco earthquake preamble at 10:19 AM, Ned Sudduth, K6NED, began taking check-ins from amateurs throughout the county with his wife Toni, K6TNI, who logged the reports. County Geographic Information System (GIS) staff loaded the real time of those hams on a map that was displayed on a TV. Tuolumne County is fortunate to have a backbone of four linked, 2-meter repeaters that cover almost the entire county.

There were 38 amateur radio operators providing reports on conditions throughout the county. In addition, we had four Neighborhood Radio Watch (NRW) communities using Family Radio Service radios, General Mobile Radio Service (GMRS) radios, and a few GMRS repeaters to add an additional 28 reports. Each NRW community has an embedded ham who monitors the NRW traffic,

and then provides a summary to the Incident Commander during their check-in.

Considering it was a Thursday morning, we felt this was a great response. Participation increased from last year's check-ins. Although Tuolumne is a large county by area, it has a population of just more than 55,000, and it is primarily rural and mountainous in character. Nonetheless, the combination of NRW communities with embedded ham radio operators and a robust repeater system has shown that even when the power and internet are down, first responder operations can continue to operate, and communities can immediately communicate and mobilize to help themselves.

During the net, net control began by asking for regional check-ins based on repeater location, starting with the most remote corners of the county. Roll call was not conducted, but check-ins in small batches of three or four allowed for concise reporting with "yes" or "no" comments on the availability of grid power and telephone services. Most stations checking in had clear audio and delivered their local status professionally. Some stations learned they needed to make improvements. Stations at sites of interest, like schools or government buildings, were asked to state their affiliation with organizations like the Community Emergency Response Team, Search and Rescue, Crime Scene Unit, etc. Mobile units also checked in and made reports. Those in nearby counties checked in, too, and they reported their local situation reports.

Ideas for next year are already underway with plans to assign operators to specific locations like the local fairgrounds, hospital, Red Cross, fire stations, etc. The Automatic Packet Reporting System can also provide value next year with real-time location and status updates from mobile operators. Thanks to TCARES, the Tuolumne County Sheriff, the Office of Emergency Services, and GIS staff, and the radio operators who have made this an outstanding exercise for the last 2 years.

Thanks to TCARES for the information con-

tained in this report.

The National Oceanic and Atmospheric Administration (NOAA) and the National Weather Service (NWS) are finalizing plans for 2023 SKYWARN™ Recognition Day.

The event is held annually on the first Friday and Saturday of December, so this year it will be on Friday, December 1, and Saturday, December 2. SKYWARN Recognition Day was developed in 1999 by the NWS and ARRL. It celebrates the contributions that volunteer SKYWARN amateur radio operators make to the NWS. During the event, SKYWARN operators visit NWS offices and contact other radio operators across the world. More details about the event will be posted on the SKYWARN™ Recognition Day and ARRL websites.

The ARRL Foundation is accepting applications for scholarships through January 10, 2024.

The ARRL Foundation Scholarship Program supports eligible amateur radio operators pursuing higher education. The ARRL Foundation manages more than 100 scholarships established by generous donors ranging from \$500 to \$25,000. Scholarships will be awarded for the academic year that will begin no earlier than June 2024 following the application deadline. The scholarships vary in eligibility requirements.

ARRL Director of Development Kevin Beal, K8EAL, said the scholarships pave the way for amateur radio being a hands-on pathway to STEM careers. "We are so thankful to donors who give to ARRL education programs because they are investing the future of amateur radio. The ARRL Foundation Scholarship Program provides financial support at a critical time for students pursuing a college degree and keeps these young radio amateurs active in the hobby."

Additional information and a link to the application can be found at www.arrl.org/scholarship-program.

The [ARRL Foundation](#), celebrating its 50th year, administers programs to support the amateur radio community, and was established in 1973 by ARRL.

Here is a direct link to the application: <http://www.arrl.org/scholarship-application>

ARRL reminds readers about the [ARRL DX Log Archive](#), founded by JA1BK.

The DX Log Archive program was created, thanks to an endowment established by Kan Mizoguchi, JA1BK, to obtain, preserve, and utilize paper logs from rare and significant DXpeditions. Paper logs of prominent DXpeditions or logs from stations and operators active from more rare locations from the 1950s through the 1980s, are the main items which we desire to save from the waste bin and archive at HQ. The archive includes pre-1950 paper logs as well as those from interesting operations, other documents from DXpeditions, and logs kept by long-time residents of rare entities. Logs which are now part of the Archive are indexed online and are being digitized and uploaded into Logbook of the World (LoTW) over time. Former ARRL Radiosport and Field Services Manager Dave Patton, KW9A (ex NN1N), manages the program. Patton noted the recent receipt of interesting logs for all the Colvin's operations; Fred Laun, K3ZO/HS0ZAR; Roger Western, EP2IA/G3TXF; John Snuggerud, LA1VC/3Y1VC (Bouvet Island); and Dick Spenceley, KV4AA. Contact Patton at dxlog-archive@arrl.org for more information about logs or related DXing ephemera that might be of interest to the DX Log Archive, or to ask for a LoTW of the World confirmation for QSOs made with any of the hundreds of calls whose logs are available on the [DX Log Archive](#) webpage.

The First Worked All States Certificate Awarded for the 33-Centimeter Band

On November 4, 2023, Al Ward's, W5LUA, 38-year quest to contact all 50 states on the 33-centimeter band ended when he received the first-ever Worked All States (WAS) certificate for (902 - 928 MHz). Ward started collecting states on the band shortly after it was opened in 1985.

"I am extremely grateful to Peter Van Horne, KA6U, for his EME [Earth-moon-Earth] efforts. I was able to work Wisconsin for my last state [on] the 33-centimeter band on October 21. At the end of September, I was sitting at 32 states confirmed with cards and/or the Logbook of The World (LoTW), when Van Horne went on a 25-state expedition providing my last 18 states," said Ward. In recent expeditions, Brian McCarthy, NX9O, and Jason Baack, N1AV, also provided several states that were needed.

Ward's station consists of a 5-meter dish with 400 W of power obtained from two 300 W Motorola amplifiers in parallel. His feed is a dual polarity patch feed.

ARRL Radiosport and Regulatory Information Manager Bart Jahnke, W9JJ, was one of the first people to congratulate Ward on his accomplishment.

Jahnke stated, "Hearty congratulations! It's my privilege to confirm the ARRL Awards Department has received your WAS application, plus Card Checker document, and we have issued the 33-centimeter (902 - 928 MHz) Worked All States Award number 1 to you in culmination of your 38-year quest to contact all 50 states on the 33-centimeter band."

Other stations on the hunt for the 33-centimeter WAS certificate that are nearing completion include AC0RA, K0DAS, and N1AV.

In 1985, the Federal Communications Commission allocated the frequency band between 902 and 928 MHz to Part 18 industrial, scientific, and medical (ISM) equipment. In that proceeding, the band was also allocated to the Amateur Radio Service on a secondary basis, meaning amateurs could use the band if they accepted interference from and did not cause interference to primary users.

The Quarter Century Wireless Association (QCWA) is sponsoring the third annual W2MM special event station to celebrate their 76th anniversary on December 5, 2023. Begin-

ning on the first weekend of December, QCWA members in the US and its territories will be able to activate W2MM for this event, which will run for 7 days. Stations activating W2MM must submit their log as an ADIF file to activitiesmanager@qcwa.org by the end of the third week of December. When naming your file, use the following format: (your call sign) -SE2023.adf. At the end of December, all of the stations that worked W2MM will be able to download a commemorative certificate. Louis Maggio, NO2C, is providing this service on a volunteer basis, so please expect a 2- to 3-month lead time for certificates. Contact QCWA Activities Manager John Kludt, K7SYS, at activitiesmanager@qcwa.org for more information and scheduling. The QCWA was founded in 1947 to provide an organization for the hobby's pioneers. QCWA promotes friendship and cooperation among amateur radio operators licensed at least a quarter century ago and who remain licensed today.

ARRL Hails FCC Action to Remove Symbol Rate Restrictions

The FCC Commissioners unanimously voted to amend the Amateur Radio Service rules to replace the baud rate limit on the Amateur HF bands with a 2.8 kHz bandwidth limit to permit greater flexibility in data communications.

"The Federal Communications Commission today adopted new rules to incentivize innovation and experimentation in the amateur radio bands by removing outdated restrictions and providing licensees with the flexibility to use modern digital emissions," announced FCC.

The announcement can be found online at, <https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.fcc.gov%2Fpublic%2Fattachments%2FD0C-398409A1.pdf&data=05%7C01%7C%7Ce5b273ead8bd4497da9308dbe54f0590%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638355899790838585%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiL-CJQljiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=O3aTH2%2Fwlt77SY1OLn71pTpbQ66opSeeGH-BzZ10ZOP8%3D&reserved=0>.

<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.fcc.gov%2Fpublic%2Fattachments%2FFCC-23-93A1.pdf&data=05%7C01%7C%7Ce5b273ead8bd4497da9308dbe54f0590%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638355899790838585%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiL-CJQljiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=ix66o7KwdKzjq5WkVIBj7ST6F%2BQIewttk8wjl1FJzr0%3D&reserved=0>.

The new rules can be found online at, <https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.fcc.gov%2Fpublic%2Fattachments%2FFCC-23-93A1.pdf&data=05%7C01%7C%7Ce5b273ead8bd4497da9308dbe54f0590%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C638355899790838585%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiL-CJQljiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=ix66o7KwdKzjq5WkVIBj7ST6F%2BQIewttk8wjl1FJzr0%3D&reserved=0>.

"Specifically, we remove limitations on the symbol rate (also known as baud rate) -- the rate at which the carrier waveform amplitude, frequency, and/or phase is varied to transmit information -- applicable to data emissions in certain amateur bands," concluded the FCC Report and Order and Further Notice of Proposed Rulemaking, adopted November 13, 2023. "The amateur radio community can play a vital role in emergency response communications but is often unnecessarily hindered by the baud rate limitations in the rules."

Consistent with ARRL's request, the amended rules will replace the current HF restrictions with a 2.8 kHz bandwidth limit. "We agree with ARRL that a 2.8 kilohertz bandwidth limitation will allow for additional emissions currently prohibited under the baud rate limitations while providing sufficient protections in the shared

RTTY/data subbands," concluded the FCC Report and Order.

ARRL President Rick Roderick, K5UR, hailed the FCC's action to remove the symbol rate restrictions. Roderick stated that "this action will measurably facilitate the public service communications that amateurs step up to provide, especially at times of natural disasters and other emergencies such as during the hurricane season. Digital technology continues to evolve, and removing the outmoded data restrictions restores the incentive for radio amateurs to continue to experiment and develop more spectrum-efficient protocols and methods while the 2.8 kHz bandwidth limit will help protect the shared nature of our bands. We thank Congresswoman [Debbie] Lesko (AZ-08) for her efforts on behalf of all Amateurs to get these restrictions removed."

In a Further Notice of Proposed Rulemaking (FNPRM), the FCC proposes to eliminate similar restrictions where they apply in other bands. "We propose to remove the baud rate limitation in the 2200 meter band and 630 meter band - and in the very high frequency (VHF) bands and the ultra-high frequency (UHF) bands.

"Additionally, we seek comment on the appropriate bandwidth limitation for the 2200 meter band, the 630 meter band, and the VHF/UHF bands."

ARRL has previously expressed its support for eliminating the symbol rate limits in favor of bandwidth limits where they apply on the VHF and UHF bands but suggested that the bandwidth limits themselves be

reviewed in light of today's technology and tomorrow's possibilities. Similarly, when eliminating the baud limits on the 2200 and 630-meter bands, consideration should be given to what, if any, bandwidth limits are appropriate.

The FCC will announce a period for public comment on the additional proposed changes based upon publication of the FNPRM in the Federal Register.

The University of Scranton Amateur Radio Club, W3USR, Got a Facelift

With a grant from [Amateur Radio Digital Communications \(ARDC\)](#) for almost \$200,000 and private donations of more than \$20,000, the University of Scranton Amateur Radio Club in Scranton, Pennsylvania, has installed new amateur radio equipment and antennas for its station, W3USR.

The station is now located on the fifth floor of the university's Loyola Science Center and features state-of-the-art operating positions with heavy-duty controllers, all-mode transceivers, speakers, desktop microphones, and other components that allow students to operate on amateur radio frequencies. A 40-foot tower with a high-frequency antenna for 14, 21, and 28 MHz has been installed, as well as VHF/UHF satellite and microwave antennas -- some with rotating mounts.

The ARDC grant was awarded to the university's Physics and Engineering Department Assistant Professor Nathaniel Frissell, W2NAF, and the private donations were made by Dr. Mary Lou West, KC2NMC; Ed Hayes, N6XEM, and Jeff DePolo, WN3A.

Dr. Frissell said the impact of the new station means everything to the club. "When you can bring a group of students into a new facility like this one, the impact makes a lasting impression that will allow them to fully experience amateur radio," he said.

Dr. Frissell added that the first radio contacts have been made, and the station is working on 10, 15, and 20 meters with additional installation work remaining. An additional room on the same floor holds equipment and antenna connections and, will be used as a lab for controlled [HamSCI space research projects](#). The new capabilities of W3USR will also allow for ongoing and future HamSCI research projects to be undertaken by Dr. Frissell and university students.

W3USR was founded in the spring of 2020 with a mission to educate students on the ionosphere and the importance of radio communication. The club regularly participates in the [ARRL Collegiate Amateur Radio Program](#).

SKYWARN Recognition Day Is Ready to Go

The 2023 SKYWARN™ Recognition Day (SRD) is December 2 from 0000z to 2400z.

The event honors all SKYWARN storm spotters and amateur radio operators for their contributions to the National Weather Service (NWS) during severe weather. Amateur radio operators also provide vital communication to the NWS and emergency management when normal communications fail.

The [National Oceanic and Atmospheric Administration \(NOAA\)](#) website is now updated with the SKYWARN registration form, mapping form, and rules and information you'll need to check in for this year's event.

It's important to review the following event resources on the NOAA website:

- Operating procedures
- Participant registration lists
- SRD 2023 contact log sheet
- SRD 2023 NWS office contact log sheet

- SRD 2023 NWS operational details
- Social media planning document

SRD was developed in 1999 by the NWS and ARRL. Amateur stations exchange contact information with as many NWS stations as possible on 80, 40, 20, 15, 10, and 6 meters, plus the 2-meter and 70-centimeter bands. Contacts are also permitted using repeaters. Non-amateur radio spotters can exchange information with NWS offices using social media.

To learn how to become a trained NOAA storm spotter visit [Spotter Training \(weather.gov\)](#).

In 2022, more than 5,000 spotters participated in SKYWARN Recognition Day.

The [Bridgerland Amateur Radio Club](#) in northern Utah provided amateur radio communications support for the 2023 Bear 100 Endurance Run on September 29 - 30. Overall, 74 amateur radio operators participated -- 58 aid station operators, six data team operators, and 10 net control operators assisted alongside a multitude of other volunteers that staffed the aid stations. Because of the event's remote location, Winlink, packet radio, and five Starlink systems were used to aid in the transfer of data and eliminated most traffic on the repeaters, except for emergency and priority communications. Thanks to Assistant Traffic Manager of the ARRL Utah Section Tyler Griffiths, N7UWX, for the information.

**BARC Website, some Blog
page Titles**[Hex Beam in the Air!](#)

Even more than this on the
website.

Feel free to view, comment and
add.

***** Membership Dues*****

Membership dues for BARC are due **January 1** every year. Membership dues are as follows and are almost the same as 2020: • Regular Member \$20.00 • Family Member \$2.00 • Associate Member (Non-Licensed) \$5.00 • Honoree Members \$0.00 • New Hams: Free first calendar year (Jan. to Dec.)

We are requesting that you send the application form in, so that we can have your correct information on file. The form can be downloaded at:

<https://n4pvh.files.wordpress.com/2020/11/application-for-membership.pdf>

Please give the application and dues to the Treasurer at the meeting or mail your dues, along with the member application form to:

Brightleaf Amateur Radio Club, P.O. Box 8387, Greenville, NC 27835

Or go to <https://w4amc.com/membership/> to use PayPal at the page bottom.

If there are any questions concerning membership status or dues, please contact Treasurer@w4amc.com.

Thank you for your continued support and participation in BARC.

****Renew/Join Now****
Help Support BARC.

HURRICANE AND EMERGENCY INFORMATION RESOURCES

National Hurricane Center
<https://www.nhc.noaa.gov/>

Tropical Tidbits (current forecast models)
<https://www.tropicaltidbits.com/>

Active Red Cross Shelters
maps.redcross.org/website/maps/ARC_Shelters.html

Red Cross Safe and Well
www.redcross.org/get-help/disaster-relief-and-recovery-services/contact-and-locate-loved-ones.html

Facebook Safety Check
www.facebook.com/about/safetycheck

Hurricane Watch Net
hwn.org

VOIP Hurricane Net
voipwx.net

Amateur Radio at the National Hurricane Center
www.WX4NHC.org

FEMA - Federal Emergency Management Agency
www.fema.gov

Ready.gov - Plan ahead for disasters
www.ready.gov

Hurricane Central - The Weather Channel
<https://weather.com/storms/hurricane>

Nets to Know

[Caribbean Emergency Weather Net](#) - Meets daily at 1030Z and 2230Z on 3815 kHz.

[Hurricane Watch Net](#) -- 14.325 MHz, 7.268 MHz -- Activated whenever a hurricane is within 300 nautical miles of expected landfall. Dis-

seminates storm information and relays meteorological data to National Hurricane Center via embedded NHC station WX4NHC. Also relays post-storm damage reports and other relevant information.

[Intercontinental Net](#) operates from 7 AM to noon US Eastern Time on 14.300 MHz, providing a means of emergency communications to any location where normal communications are disrupted.

[Marine Maritime Services Net](#) -- 14.300 MHz -
- The network acts as a weather beacon for ships during periods of severe weather and regularly repeats high seas and tropical weather warnings and bulletins from the National Weather Service and the National Hurricane Center.

[Salvation Army Team Emergency Radio Network](#) (SATERN) -- 14.260 MHz -- The purpose of the SATERN net is to support the Salvation Army operations in local, regional and international disaster situations. - *ARRL US Virgin Islands Section News*

SKYWARN

To learn how to become a trained NOAA storm spotter visit [Spotter Training \(weather.gov\)](#).

WinLink Nets and Practice

Great Lakes Area Winlink Net

A new Great Lakes Winlink Net to promote the use of Winlink and training on the various facets of the hybrid amateur radio data/internet system. The net is open primarily to those states that border any of the Great Lakes: Minnesota, Wisconsin, Illinois, Indiana, Michigan, Ohio, Pennsylvania, and New York, and the Canadian province of Ontario. However, radio amateurs wishing to check in from other states or provinces anywhere are welcomed to participate. This net is modeled on the [Wisconsin ARES Winlink net](#).

The net check-in process is as follows: Send either a basic, plain text message, or use any of the forms templates on the Winlink Express platform available that will allow you to include the following line of text in the body of the message or in an appropriate part on the form you choose to send: FIRST NAME, CALLSIGN, CITY, COUNTY, STATE, COUNTRY. For example: RYAN, KB8RCR, REMUS, MECOSTA, MICHIGAN, USA.

The net is on each Wednesday, amateurs may send their messages or forms any time during the day using Winlink in any mode available, RF or via Telnet. Send your message to KB8RCR as the recipient on Winlink. - *Ryan Lughermo, KB8RCR, ARRL Assistant Section Emergency Coordinator for Data Management/Special Projects, Michigan Section; and Official Relay Station From ARES*

March 2021 Newsletter (Editors Note: Great way to learn and practice)

The EmComm Training Organization (ETO) will continue the popular Winlink Thursday exercises to foster Winlink-knowledgeable operators across the country. Procedures will include a weekly exercise for routine practice with a fourth Thursday exercise of a more challenging nature. Exercises will almost always include a Winlink Express Check-in form. Please [send questions about Winlink Thursdays](#). Questions about the ETO group can be sent [here](#).

The Canadian American Net ([CANAM](#)) aims to unite hams in the Eastern US and Canada. Some 40 amateurs from Canada and the US typically check in for each session, and the net accommodates CW and SSB. The Canadian-American Net operates 7 days a week on 7.153 MHz, with check-in starting at 1300 UTC.

Recommend: Programming your local Emergency Simplex frequency's into your Radio's. It's easier now than when you need them. Brightleaf Amateur Radio Club uses the Repeater frequency in Simples in case of Repeater failure.

National Hurricane Center
[Voice over Internet Protocol \(VoIP\) Hurricane Net](#), Nets:
14.325MHz, 7.268MHz

NETS

VHF/UHF

- ◆**BARC Net**, Mondays, 2000 on 147.09 MHz, W4GDF Repeater.
- ◆**Down East Hospital Net**, 2nd Tuesday of each month at noon
Greenville 444.725 MHz, 91.5 tone
N4HAJ, Traffic Net 2030 local
Fountain 444.425 MHz, 88.5 Tone
N4HAJ
- ◆Newport-145.450..... IRLP 8561 links to Columbia
- ◆Jacksonville-147.000- 88.5 tone
- ◆Oriental-147.210-151.4 tone
- ◆444 Newport-444.825- 88.5 tone
- ◆Swansboro-146.760- 88.5 tone
- ◆Grantsboro-145 230 - 85.4 tone.
- ◆Kinston Amateur Radio Society Net, 1,3,4 Tuesdays, 2000 hrs. on 145.47 MHz., W4OIX repeater in Kinston.
- ◆Eastern North Carolina Traffic Net, Every night, 2030 on 444.725-91.5 tone.
- ◆Wilson Amateur Radio Club Net, Thursdays @ 2000 on 146.76 MHz.
- ◆ Piedmont Coastal Traffic Net, Nightly 2030 on 444.725MHz, 91.5 tone
- ◆Carteret County ARS (CCARS) Emergency Net, Tuesdays, 1930 on the Newport 145.45 (-) MHz, tone 100
- ◆Coastal Emergency Linking Net, Wednesday, 2100 ET on Ahoskie 145.13, Buxton 145.15, Columbia 146.835 & 443.30, Elizabeth City 146.655, Greenville, 145.35, Hertford 147.33, Williamston 145.41 & 444.25
- ◆ 220 Net, Wednesday 2000hrs, 224.840 MHz -1.6, PL 91.5
- ◆ PARC 147.255+ PL Tone 131.8 Thursday at 2000 hours Except day of meeting

HF

- Tar Heel Emergency Communications Net on 3923 kHz Nightly 1930.
- PARC Tuesday net 3.807Mhz SSB 1900 hours(EST)
- NTS CW Nets**
- ◆3.571 2000 hours, slow speed (5-8 wpm) Carolinas Slow Net
- ◆3.573 1900 hours, high speed (20wpm)
- ◆3.573 2200 hours, slow speed (12-14 wpm), South Carolina/North Carolina
- National Traffic System**
- Eastern North Carolina Traffic Net (ENCTN)
146.685 (146.085 in) MHz (PL 88.5)
2030E

More Nets:

New Swap and Trade Net - There will be a new swap and trade net starting up on 6 meters 53.25 N4YR repeater -1.0 MHz, tone is 100 Hz at 8PM.

Thursdays: 8:30 PM Forsyth County Auxcomm net on 145.47 MHz. 3rd Thursdays are training programs on Zoom at 8:00PM.

Thursdays: 9:00 PM 2 Meter SSB on 144.200 MHz

Sundays: 8:30 PM 6 meter SSB net on 50.155 MHz

Sundays: CW Legacy Net every Sunday from 12:30-1:45 p.m. every Sunday afternoon on 7.060. All speeds and brands of rigs welcome. Net control: Rick, WO8L

Tar Heel Emergency Communications Net on 3923 kHz Nightly 1930.

South Carolina/North Carolina National Traffic System CW Nets 3.571 2000 hours, slow speed (5-8 wpm) Carolinas Slow Net 3.573 1900 hours, high speed (20wpm) 3.573 2200 hours, slow speed (12-14 wpm),

Ten-Tec Legacy

The nets operate on: Ten-Tec Legacy SSB 3.927 MHz on Saturday morning from 6:00 am until 9:30 am

7.195 MHz on Sunday afternoon from 1:30 pm until 3:30 pm

Any radio type is welcome. Netlogger is the preferred check-in method but CQ calls are made for those that don't have access to Netlogger. More information can be found at www.groups.io (search for Ten-Tec Legacy nets).

Virginia EmComm (A Winlink practice group)

This is a Facebook Group that practices Winlink and other related modes every Wednesday. Many Hams

all over involved. All are invited to take part in it.

Ham Ads



Ham Ads will be run, free of charge in Ham Chatter for three months for each renewal. Ads must be received by the last week of the month to be included in the following issue. Send ads to: **Ham Chatter, PO Box 8387, Greenville, NC 27835. Or Email the Ham Chatter.**

Used Radios and equipment for Sale, Buy or Find:

I am **looking for a used canoe** to use here at Blounts Creek, lots of shallow creeks and coves to explore. Preferably an older one that someone has sitting in their backyard and would like to see it go to a new home where it will be used.

No kayaks please.

I have a budget to work with so I'm not looking for a "River Queen" haha and I can repair or paint if needed.

Thanks!! 73

Gary Faust NG9T cfaust(at) gmail (dot)com

11/2023

HF AMPLIFIERS FOR SALE I have just taken several pieces of Estate gear under my wing. Might you have any interest in the following Amps: Drake L-4 w/PS, Heath SB-220, Henry 3A Floor, Henry 2K-3 Floor, Chuck, W4HF k4hf95 (at)yahoo (dot)com

Sept 2023

I have a "never been used" **Hexbeam** that I built for someone that backed out at the last minute. The antenna is 6 bands, 6,10,12,15,17, and 20 meters.....it also comes with the optional Ice Cords. I am asking \$500 A new commercial Hexbeam cost \$1000 to \$1200 new. I will also deliver, set it up, and test it on site if you are not too far away. I also will stand behind my work as long as you own it.

I have made about 12 of these antennas and as of today I have had no complaints. If you ever thought about a Hexbeam now is the time.....you will not find one at a lower price.

Also, I will soon have a 40' tower w/rotor if anyone is interested in making a package deal.

I can be contacted at:

pete@wene.net

919-440-2937

11/2023

I have a houseful of ham radio equipment for sale at reasonable prices if any of your members are looking for something. Photos available on FB marketplace currently or I could email to anyone who might want to see what's available. Had 3 Rigols, only 1 sold currently. LOTS of other equipment!

Dede Carney
12523479678
dedecarney@kw.com

12/2023

Ham Ads

Commercial Ad Rates

1/8 page, Business Card Size
 \$10 per Month - \$100 per Year
 Send ads to: **Ham Chatter,**
PO Box 8387, Greenville, NC 27835
 Help support *Ham Chatter* and the club.
Donations accepted!

No Charge for Ham's selling or looking for items.

How to print a copy of your FCC License

by Jim, KV4SJ

To access an official copy of your license:

1. Go to: [HTTPS://wireless2.fcc.gov/UlsEntry/licManager/login.jsp](https://wireless2.fcc.gov/UlsEntry/licManager/login.jsp)
2. Log in with your FRN and password. (Also has links to find or get your FRN.)
3. Click on "Download Electronic Authorizations" in the links on the left hand side.
4. Select your call sign in the box labeled "My Authorizations" and click on the Add button to copy it into the "Authorizations to Download" box.
5. Click on the Download button to download an official copy of your license in PDF format.
 via *Forsyth ARC Newsletter, August 2020*

BARC on FACEBOOK

<https://www.facebook.com/w4amc/>

Facebook and Group details

<http://www.w4amc.com/barcnews.html#BARC>

Pitt County Repeater Association

<http://www.pcra.us/>

Monday & Monday, CPA's, PA

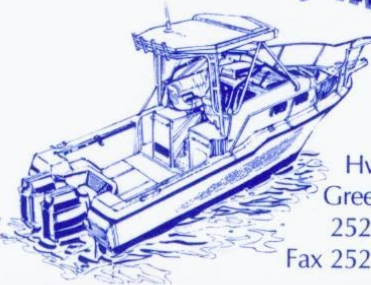
Certified Public Accountants

TERRY A. MONDAY, CPA, CVA, EA
K4ZYD

105-D East Victoria Ct.
 Greenville, NC 27858

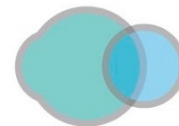
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<https://ECRetina.com>

CALENDAR OF EVENTS

Contest, Events and Meetings

2023 Starts Here: Just some of the MANY contests and Events

- Dec 2 2023 SKYWARN Recognition Day
- Dec 1-3 [160 Meter \(arrl.org\)](http://www.arrl.org)
- Dec 9-10 [10 Meter \(arrl.org\)](http://www.arrl.org)
- Dec 11 **BARC Christmas Party, 6 pm**, Emmanuel Baptist Church **MONDAY**
- Dec 14 **Pamlico Meeting 7pm** [See Email](#)
- Dec 17 [Rookie Roundup \(arrl.org\)](http://www.arrl.org) CW
- Dec 26 BARC—No Board Meeting

2024 Starts Here:

- Jan 9 BARC Meeting 6:30pm
- Jan 11 Pamlico Meeting 7pm
- Jan 23-24 [Winter Field Day](#)
- Jan 30 BARC Board meeting 7pm Zoom
- Feb 8 Pamlico Meeting 7pm
- Feb 13 BARC Meeting 6:30pm
- Feb 27 BARC Board meeting 7pm Zoom
- March 12 BARC Meeting 6:30pm
- March 14 Pamlico Meeting 7pm
- March 23 Walk MS: Raleigh
- March 26 BARC Board meeting 7pm, Zoom

Contest Calendar: For more Contest and all the rules:
<https://www.contestcalendar.com/weeklycont.php>

Visit the [ARRL Contest Calendar](#) for more events and information.

Bruce Horn, WA7BNM, [Contest Calendar](#) website. The site now includes a [5-Week Calendar](#) .
 There's more than I could post available.

BARC Meetings are open to all.

BARC Regular Meeting - 2nd Tuesday @ 6:30 PM Live and Zoom

BARC Board Meeting - Last Tuesday @ 7:00 PM ZOOM Except in December.

Pamlico Meetings—2nd Thursday @ 7pm

CALENDAR OF EVENTS

Upcoming Section, State, Division Conventions and Hamfest

2023:

December 8 - 9, [Tampa Bay Hamfest](#), hosting the ARRL West Central Florida Section Convention, Plant City, Florida

2024:

January 6 [Ham Radio University](#), hosting the ARRL New York City-Long Island Section Convention, Brookville, New York

January 12 - 14 [ARRL Puerto Rico State Convention](#), Hatillo, Puerto Rico

January 19 - 20 [Cowtown Hamfest](#), hosting the ARRL North Texas Section Convention, Forest Hill, Texas

January 27 [Winterfest](#), hosting the ARRL Midwest Division Convention, Collinsville, Illinois