

Ham Chatter



Volume 56 Issue 12

An Official BARC, W4AMC, Publication

December 2022

Editor, Mark, KG4GVJ

Email: hamchatter@w4amc.com

Christmas Party is Monday Dec 12th. Same place as last year.

We hope having it Monday this month is not hard for you and hope to see you all.

From the parking lot, take the sloping road going toward the rear of the church. Take the side door and go straight down thru the hall until the end.

General Dinner meeting Monday
Dec 12, 2022 6pm

All members, families and guests are invited to attend.

Speaker:

MONDAY, Dec 12, 6pm,

Christmas Party, Pot Luck,

Location: Fellowship Hall,

Immanuel Baptist Church, 1101

South Elm Street Greenville, NC

27858

Reminder, Dues due January 1, 2023

Please send in your checks to the Treasurer or go to our [W4AMC.com webpage](http://W4AMC.com) and use PayPal on the website. Thank you.



Board Meeting - December 27, 2022
The meeting will be on **ZOOM** at 7:00 PM. All members invited.

2023 Presentations

January 10th 6:30pm

Clint K6LCS has been a ham since 1994, and found his niche in the hobby: working amateur satellites with minimal equipment and telling ALL about it! He has served a liaison between NASA, the ARISS team, and schools coordinating amateur radio contacts between the International Space Station and students (and also orchestrated a wildly successful ARISS contact). Audiences have never found his presentation slides "wordy" nor dull. Trivia questions are included throughout the session - audiences are never bored.

For reference materials, Clint has created a support Web site at work-sat.com. The Web site has become a one-stop source for ALL the citations and equipment recommendations and software suggestions made in the presentation.

Professionally, Clint was sales manager for ADI / Premier Communications / Pryme, worked for a Motorola commercial two-way dealer a couple of years, and for Ham Radio Outlet a couple more. He resides in Jurupa Valley, California, with his wife, Karen, and their rescued lab, Freja (FRAY-ya)

Oliver Dully K6OLI Winlink Basics

February 14 6:30pm

Oliver Dully, K6OLI, serves as District Emergency Coordinator for ARES LAX Northeast, which provides amateur radio communications backup for 911 receiving hospitals in northeastern Los Angeles County. Operators with ARES LAX Northeast use innovative technologies like Winlink with VARA HF, VARA FM, Packet and AREDN mesh, for example, to provide amateur radio solutions for the complex communications demands of medical facilities when commercial options may have been compromised. He is one of the initiators of the VARA FM Winlink Autobahn connecting Los Angeles and Ventura Counties.

Oliver has authored several popular Winlink Quick Guides for Packet and VARA FM.

He also coordinates the Winlink Did-you-feel-it (DYFI) project, a Winlink Development Team collaboration with the United States Geological Survey. In his role as Forms Manager for the Winlink Development Team Oliver coordinates the creation and management of Winlink forms.

With his radio friends Oliver enjoys supporting events like races and charity events.

Oliver and Tran K6NHI live in Pasadena, CA.

Publications

Dully, O. (2019), AREDN Mesh Tunnel via Satellite at Baker 2 Vegas 2018, February 2019 QST, 78-80; copyright ARRL, <https://southpasradio.org/wp-content/uploads/2019/01/02-2019-QST-Dully-AREDN-Mesh-B2V.pdf>

[AREDN Mesh Tunnel - W6SPR](#)

78 February 2019 www.arrl.org Oliver Dully, K6OLI From March 17 to 19, 2018, Dave Gross, W6JDG; Brian Kanegawa, KM6IGY; Tran Huynh, K6NHI, and

southpasradio.org



[Amateur Radio Operators Help Fill Earthquake Donut Holes - Eos](#)

Ham radio networks gear up to provide real-time, on-the-ground information about earthquake shaking and damage when other communication pathways are knocked out of commission. doi.org

Wald, D. J., V. Quitoriano, and O. Dully (2021), Amateur radio operators help fill earthquake donut holes, Eos, 102, <https://doi.org/10.1029/2021EO155013> . Published on 22 February 2021.

Quick Setup Guide: VARA FM 4.x.x

By Oliver K6OLI
Last Update: Nov 28, 2022

Special thanks go to Scott KI6SC, Martin HB9AUR, Keith KD6PYD, Brian KM6IGY, Jeff W2JQL, Tom KN6BKT, Mike KM6KAQ, Jim KM6TGJ (SK), Ken KI7EIH, Scott NS7C and Denis K0TX for your testing, for your suggestions, insights and encouragement.

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Setting up Winlink for VARA FM

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Quick Setup Guide: VARA FM 4.x.x By Oliver K6OLI Last Update Special thanks go to Scott KI6SC, Martin HB9AUR, Keith KD6PYD, Brian KM6IGY, Jeff W2JQL, Tom KN6BKT, Mike KM6KAQ, Jim KM6TGJ (SK), Ken KI7EIH, Scott NS7C and Denis K0TX for your testing, for your suggestions, insights and encouragement... [bit.ly;](https://bit.ly/4...)

Quick Guides

Quick Setup Guide: VARA FM 4.x.x by K6OLI, <https://bit.ly/QG-VARA-FM>

Quick Setup Guide: UZ7HO Packet Soundmodem by K6OLI, <https://bit.ly/K6OLI-Winlink-Packet>

Quick Setup Guide: Packet Soundmodem (K6OLI)

Last Update Sep 5, 2022

Thank you, Mike KM6KAQ, Scott KI6SC, Brian KM6IGY, Lew AC6LS, Keith KD6PYD, Jim KM6TGJ, Ken KI7EIH, Joe AH0A, Tom N5TW, Mike XE2/N6KZB, Scott NS7C, Roger K6WDX and Denis K0TX for testing, for your suggestions, insights and encouragement. And special thanks to Phil W4PHS and Andy UZ7HO whose programming skills, smart work and dedication make Winlink and soundcard Packet the powerful and robust combination that it is.

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Quick Setup Guide: Packet Soundmodem (K6OLI) Last Update , Mike KM6KAQ, Scott KI6SC, Brian KM6IGY, Lew AC6LS, Keith KD6PYD, Jim KM6TGJ, Ken KI7EIH, Joe AH0A, Tom N5TW, Mike XE2/N6KZB, Scott NS7C, Roger K6WDX and Denis K0TX for testing, for your suggestions, insights and encouragement....

bit.ly

Thank you

Quick Setup Guide: IC-7100 VARA FM, UZ7HO & VARA HF by K6OLI, <https://bit.ly/K6OLI-IC7100>

Quick Setup Guide: IC-7100
VARA FM, UZ7HO & VARA HF

By Oliver K6OLI

Last update Nov 28, 2022

Thank you, Jeff W2JCL and Robert WY7AA for testing, for your suggestions, insights and encouragement.

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Thank you Presentations

Great ShakeOut 2021 - Winlink Did-you-feel-it in Action: <https://youtu.be/EYuTQv85rjk> Published on 19 November 2021

VARA FM for Emcomm: <https://youtu.be/FAn8eg3Lk3A> Published on 16 July 2021

Winlink for Emcomm 3 - Gateways: <https://youtu.be/wJdLLqy88Bw> Published 29 April 2021

Winlink for Emcomm 2 - Peer-to-peer: https://youtu.be/5sy1_tjsq2k Published 30 April 2021

Winlink for Emcomm 1 - Setup and Basic Operation: <https://youtu.be/Wd9BU5nznB0> Published 29 April 2021

Winlink Did-you-feel-it Intensity Reporting: <https://youtu.be/Ao2WmypyVGg> Published 27 May 2021

ShakeOut for Volunteer Radio Groups: <https://youtu.be/IILXriPkn3c> Published October 17 2022

We have a request to help take a tower down...from Bernie: (Email)

Peter, Rick Lamonica is in bad health.
He wants to donate his tower to the club, which is a
Heights free standing aluminum tower, not sure it's about 40 feet.
We will need a working party to take it down, and get all the coax out.

I'm still weak from covid, but getting better, so it might be awhile before I could help.
Maybe you & I can meet in the near future and discuss a plan to help Rick.
Take Care

Bernard Nobles WA4MOK

——>Please contact Bernie and we will make a tower takedown party! Who can help with this?



A crossband activation of NEPM, the Battleship USS Iowa's original active call sign, is scheduled in memory of Pearl Harbor. As the representative of the National Museum of the Surface Navy at the Battleship Iowa Museum in San Pedro, California, the Battleship Iowa Amateur Radio Association (BIARA) will honor the sailors and ships previously homeported in San Pedro who were attacked on December 7, 1941, with special crossband activations of NEPM on December 6 and 7, 2022. When Pearl Harbor was attacked, seven of the battleships formerly homeported in San Pedro Bay were not present. Eight Pacific fleet battleships -- the USS *Arizona*, USS *California*, USS *Maryland*, USS *Nevada*, USS *Oklahoma*, USS *Tennessee*, USS *West Virginia*, and USS *Pennsylvania* -- were at Pearl Harbor and absorbed the brunt of the Japanese attack. Of these eight ships, three sank, one capsized, and four suffered varying degrees of damage. Under the authority of the Navy and Marine Corps Spectrum Office Southwest, they will transmit using the *Iowa's* NEPM call sign on assigned military frequencies and listen for calls from the amateur radio community in their adjacent bands. NEPM will transmit on 14.375 MHz, 18.170 MHz, and/or 21.460 MHz on J3E upper sideband and/or A1A CW. The operator will advise listeners as to where they are listening. Amateur participants are reminded not to transmit on the NEPM military frequencies. Operations on both days are expected to be from 1500 to 2400 UTC. QSL procedures can be found at <https://biara.org>. For specific questions in advance of the operation, contact w6hb@biara.org.

New BARC Meeting Time and Location for 2023

BARC member meetings will have a new time and location beginning with the January 2023 meeting. Thanks to Scott James (K9SPJ) and Sheppard Memorial Library the meetings will move to the main library in downtown Greenville in meeting room A. The day remains the same - second Tuesday of each month - but the meeting start time shifts to 6:30pm to allow BARC attendees to enter before the library closes to the public at 7:00pm. The room entrance is just inside the main entrance, on the left just beyond the Coca-Cola machine.

The library's address is 530 Evans Street, Greenville. The parking lot is accessed from Reade Circle or Dickinson Avenue. The exterior doors are locked at 7:00pm, so if you arrive after that you will need to call K9SPJ on the 146.520 2-meter simplex calling channel for entry.



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. For local Hams, look up Gerald KN4CKL as he has been doing limited testing all through the pandemic. GO Gerald!!!!” You will need a reservation in order to be tested. Practice taking the test on line with <https://www.hamradiolicenseexam.com>. 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 Todd
 12-13 KC4RBE June
 01-06 W4ESO Frank

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:

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 new 2nd VP Judy W3JUU
 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. Contact Peter or the Ham Chatter

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BARC's President's Corner, Peter, N4PVH



Dear Members:

It is with a sad heart that I write my last President's Corner from my two year stint as your BARC president. It does my heart good knowing that we have a wonderful person taking over the president's position. The other spots are being filled with quality people that will work hard for the club. This has been a wonderful crew to work with and I will be at the meetings trying to help anyway I can. I'm also really excited to see Scott come on and coordinate the meetings at the library as well as set up the zoom calls. This will be fantastic. I'm hoping that these are signs that we're breaking out of the lockdown from the Covid pandemic and starting to get back to more normal things.

With that thought however, the recent statistics of the Covid pandemic are frightening. If most of the population has at least two or three vaccinations, but only 15–20% of the population have the most recent fourth booster, here are the recent statistics on death from catching Covid in the light of the current vaccination status of the population. Looking at how the pandemic is affected by age: if you are under age 50 you still have a 2% chance of dying from Covid if you catch it. If your age is between 50 and 75, it's closer to 20% and if your age is over 75, and you catch Covid, you have a 90% chance of death even with the current vaccination status. This virus hates old people (that is most of us!). What is happening is that the young people feel immune and go without protection, catch Covid, then come home with it and kill their parents and grandparents with it. This is a new phase of this pandemic. The simplest protection still is the masks and getting fully vaccinated. Everything we do has risks, even the vaccine has risks, you could react to it, but fortunately the numbers are way in favor of vaccination compared to the risk of Covid death. In life, there is no such thing as anything that is perfectly safe. I have tried to keep our member safe from one of the worst pandemics in recent memory and the club "alive" with activity.

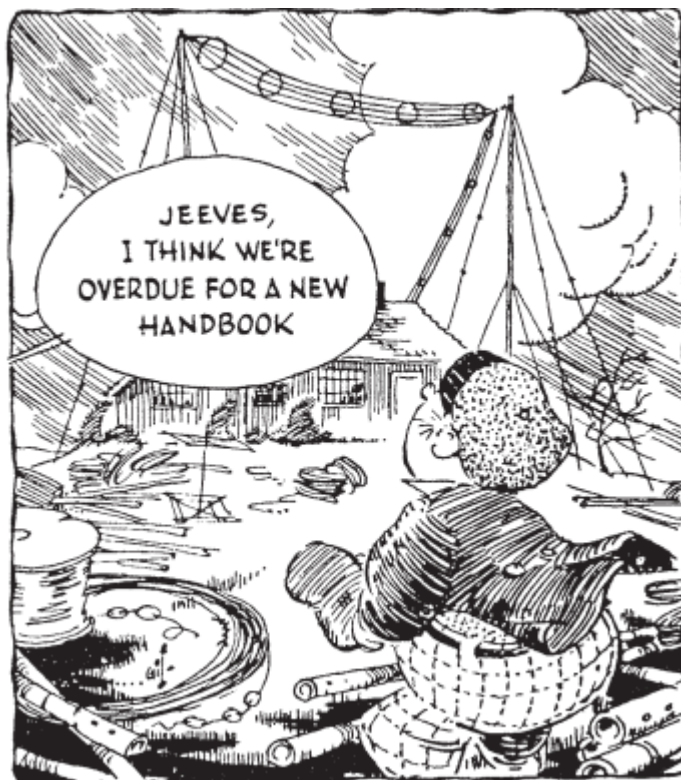
In my "BARC" retirement, I hope to continue to work on the webpage and send out the emails that everybody needs to read, controlling the roster and trying to keep everybody's email safe. I also intend to resurrect the Voice Of America project and spend more time on that. As we go forward, you will hear more and more about it as time becomes available. The Voice Of America is today even more important to getting the truth to Ukraine that it was in World War II.

President's Corner

Continued

I cannot tell you how much this club and the friendships it has fostered means to me or how much fun I have had playing with antennas and radios, documenting the learned lessons in the web page blog for others to enjoy. It has been a recent lifeline personally and I hope all members will get as much out of this membership as I have. Please remember that you only get as much out of being a member as you put effort into the club. The more you do, the more you enjoy it. Have fun, explore amateur radio, support your local clubs and BE RADIO ACTIVE!

73 Peter, N4PVH



ARRL's 100th Edition is now out

BARC Board Meeting

November, 2022

In Attendance:

Bill Dawson WA4SLC, Beth Gonzalez KN4FZB, Scott James K9SPJ, Susan Langley-Jones WA4AKB, Dave Langley W4YDY, Mark Raysin KG4GVJ, Judy Taber W3JUU, Peter Van Houten N4PVH, Dave Wood, W4EJ.

Reports:

Secretary: Previous minutes were accepted.

Treasurer: No treasurer report, one new member added to the roster.

VP/Programs: Judy is working on lining up speakers for 2023.

The Christmas party is MONDAY, December 12 at 6:00 at Immanuel Baptist Church, 1101 S. Elm St, Greenville.

Ham Chatter: Will reach out to PARC and other local groups and offer a spot in the Chatter.

Business:

We are resuming breakfast socials starting on January 14 at 9:00 at Great Harvest Bread, 2803 Evans Street, Greenville. Please join us! We are aiming for the Saturday after the meeting each month, but may tweak this schedule to not step on other local meetings.

We are trying to generate ideas to involve youth, maybe a kit to build or a fox hunt.

Although the general meetings are moving to 6:30 at the library starting in January, the board meeting will remain at 7:00 on Zoom

Peter will add Beth and Scott as admins on the FB page.

Submitted by
Beth KN4FZB

GREETINGS FROM THE HIGH COUNTRY

Nov. 1, 2022

The weather up here has been cool, foggy, and damp. To quote Johnny Cash, "I ain't seen sunshine since I don't know when." Several days of light rain, with some mild winds, have brought down about 95% of the leaves. Halloween was foggy and damp and the temp was in the low- to mid-50's.

ARRL MATTERS

1. Upcoming deadlines--previously covered in earlier newsletters (posted at ncarrl.org). Here are some quick reminders:
 - a. Clubs who recruit new members or renewing members can now receive either \$15 or \$5 from ARRL for the club's involvement in processing the membership paperwork for each member when the club handles the application paperwork and remits to ARRL the membership fees collected from the member.
 - b. Applications are being accepted from schools that wish to participate in the ARRL-NASA ARISS program.
 - c. Applications are being accepted from college students for scholarship support in 2023 from the ARRL Foundation.
2. In a few days, ARRL will have completed the voting for the Southeast Division Director and Vice Director. The election is using both paper and electronic ballots and members can choose to use one but not both methods to vote.

FCC MATTERS**1. Amateur License Data**

A question that periodically comes up concerns the number of amateur radio operators there are in the United States. Here is current data from the FCC as of October 29, 2022:

	Novice	Tech	General	Advanced	Extra	Total
USA	6388	389543	186291	34751	54463	771436
NC	154	10567	5833	1076	5080	22710

2. FCC Honors Program for Electrical Engineers

The FCC is seeking applications from Electrical Engineers and those who will graduate in December 2022. The one-year Honors program allows those chosen to work with senior FCC personnel for one year on an exciting variety of new technologies. Completion of the one year Honors program may lead a permanent job offer. The FCC will accept applications until 175 applications are

received or December 2, 2022, whichever comes first. Information about the program can be found at <http://www.arrl.org/news/fcc-seeks-electronic-engineers-for-honors-program>

3. The Temporary Waiver of 300 Baud Limitation permitting ham use of Pactor 4 ends on November 27.

EMCOMM MATTERS

1. The CISA Auxcomm course will resume in 2023. One course will be held in Lee County (Sanford) on February 3, 4 and 5. A second Auxcomm course will be held in Dare County (Manteo) on April 21, 22 and 23.

Registration information soon will appear in TERMS (<https://terms.ncem.gov/TRS/>).

a. If you want to enroll in the course, you must have certificates for the current versions of ICS 100c, 200c, 700b and 800d. These are free courses and take about one hour on-line to complete. Registration and completion of the four courses is done at <https://training.fema.gov/is/>. Get your four on-line courses

perquisites done so you can register for the Auxcomm course.

b. An endorsement of your application from your County Emergency Management Director will be required.

c. NCEM Travel Expense Reimbursement will be available to those who travel more than 50 miles from home to compete the course.

2. In a few days, TERMS will have a listing for the modular online Winlink course developed by Lor Kutchins, W3QA. Persons who sign up for the course will have approximately a month to complete ten modules each of which has a task that is designed to expose students to various features of Winlink. Certificates for completion of this course, along with one from the SHARES Winlink Course, will satisfy that portion of the Auxcomm Task Book dealing with Winlink and SHARES.

3. The Dupont Rescue Experience leadership this year has chosen to emphasize a "Back to the Basics" theme so this year DRE will provide training for Incident Management Team personnel as well as for searchers being trained to work in a mountain environment. There will be no opportunity for Auxcomm personnel to complete portions of their Position Task Books at Dupont this year.

4. The next Disaster Comms School will be held in early in 2023 at a location yet to be chosen. The Disaster Comms School will return to Charlotte in summer 2023. No word at this time on the courses to be offered at either session of the Disaster Comms School but they will be listed in TERMS once finalized.

5. Report on Western Branch Comms Exercise Held October 29.

Dennis White, N4WHK, Iredell County Auxcomm/ARES Coordinator, initiated a local SET that was expanded into an exercise involving other counties across the Western Branch of NCEM. The purpose of the multimode EmComm test was to document emergency communications capabilities in the event that Iredell and other Western NC counties lose their normal telephone and internet capabilities. The exercise is a part of local county PACE Planning (which identifies the agencies Primary, Alternate, Contingent and Emergency systems).

Despite a one day notice and several counties having scheduled local community events occurring the same time as the EmComm test, thirty (30) amateur participants used a variety of communication modes to communicate with net controls. Modes involved amateur radio operators using the Western Branch UHF DMR Net (20), the 40 Meter Tarheel Net on 7232 KHz (15), Winlink (18), the local 2 meter repeater (4) and the statewide 800 Mhz VIPER network. The Western Branch includes 34 counties; sixteen counties participated in this EmComm test.

6. ARRL NTS Benchmark Study and Monthly Message Transmissions

ARRL has initiated monthly NTS tests in order to have benchmark data on enhancements being planned for the National Traffic System. Near the end of each month, Josh Johnston (K5EHV), ARRL Emergency Management Director, is sending out messages to approximately 200 recipients (Section Managers, Section Traffic Managers, and ARRL Board Members and Officers). The Traffic is passed over several different NTS modes (CW, Radiograms and Winlink) and the recipients are asked to confirm receipt of the message as well as how and when it was received.

This series of monthly tests is designed to track whether the NTS changes result in quicker deliver times and an improved rate of delivery using each of the transmission modes. Former Roanoke Director Bud Hippisley is analyzing the data and serves on the NTS 2.0 subcommittee of the ARRL EmComm and Field Services Committee.

7. There has been an expansion of the PRN DMR network with the addition of a uhf repeater located in east Charlotte. It carries the standard PRN talkgroup alignment and operates on 443.5875MHz. The Charlotte repeater is connected 24/7 with Albemarle, Wingate and Crowders . It also connects to the scheduled Tuesday night (8pm) High Country UHF Digital Net and the Western Branch DMR linking system that connect 16 repeaters across Western North Carolina. Drop me a line if you are interested in learning more about DMR radio in the Western Branch .

UPCOMING EVENTS – MARK YOUR CALENDAR

1. JARSFEST, November 20, sponsored by the Johnston Amateur Radio Society, at the American Legion Building in Benson. Info can be found at <https://www.jars.net/jarsfest-2022/> .

2. The North Carolina QSO Party will be held on February 26, 2023. NC ARRL will once again be a sponsor for one of the contest awards.

Information about the QSO party can be found at <https://ncqsoparty.org/>

3. Although this event is out of state, the Georgia ARES group will undertake a massive project to a statewide POTA activation and operate from all 50 Georgia State Parks on April 1 and 2, 2023. Is there interest in the Old North State to show them that Tarheels can do this too? Let me know.

CLOSING COMMENT

In the past few days, two of my local friends died.

One had been ill for some time and had lived a full life, more than her three score and ten,

The second was a first responder, 43 years old, driving to work, like any other morning, and was killed by a drunk driver who lost control of his vehicle, struck one vehicle and then crashed into a second vehicle, with Jay dying at the scene.

Each of these two persons meant a great deal to their families, their friends and their communities because of the good people they were.

Their deaths have left voids in the hearts of many people in Watauga County.

Let your families know that you love them and tell your friends how much they mean to you. None of us knows how much time we have.

Marv, WA4NC
NC Section Manager

GREETINGS FROM THE HIGH COUNTRY

November 23

We certainly are not in the throes of Winter up here. There were a few snow flurries a week ago. Beech, Sugar and Appalachian Ski operations are open with blown (man-made) snow and not all ski runs are open yet.

At this moment, the temperature here is 54 degrees and the overnight low was 41. Slope operators need temperatures below 38 degrees to make snow. The current temp and the rain forecast over the weekend, does not bode well for the snow base that is on the ground. We did have lows in the lower 20's and the winds got up to 44 mph at 7 a.m. on November 20.

I would describe our weather as involving variable forecasts.

ARRL MATTERS

Board Election and Electronic Voting

ARRL members elect five directors each year to serve a three term that begins on January 1.

The Southeast Division Director, Mickey Baker, N4MB (who represents Alabama · Georgia · Northern Florida · Puerto Rico · Southern Florida · US Virgin Islands · and West Central Florida) overcame challenges from two others running for Southeast seat on the board .

Incumbent Directors in four other Divisions up whose terms were about to end had no opposition and were declared re-elected without a vote. Info at <http://arrrl.org/news/2022-arrrl-board-of-directors-election-results> .

This ARRL election cycle used a hybrid system of paper ballots and electronic voting. No information has been released as to what percentages of votes were cast via paper or computer but ARRL intends to make greater use of electronic voting in the future.

FRANKLIN AMATEUR RADIO CLUB CELEBRATES A HALF CENTURY OF ACTIVITY

On November 19, the Franklin Amateur Radio Club celebrated its founding 50 years ago. They operated on several ham bands using their club callsign KF4RC and there was a bountiful luncheon. State Government Liaison, Max Hopper, K4BMN, represented NC ARRL and presented the club with a 50 year celebratory plaque from the Roanoke Division Director Jim Boehner and Vice Director Bill Morine. Max also presented the club with the fifth SUGAR (Supporting Upgrading Growing Amateur Radio) Award given by the NC Section to recipients who have made a special contribution to amateur radio in North Carolina. Congratulations to the Franklin Club along with wishes that its sixty or so members continue to be active in ham radio.

HOW OLD IS YOUR CLUB?

The NC Section would like to recognize the oldest radio club in North Carolina. If you club is older than 50 years, please drop me a note before January 15 so we can arrange an appropriate recognition to celebrate "THE OLDEST CLUB IN NORTH CAROLINA".

Is your club the oldest?

MEMBERSHIP CHALLENGE - AWARD IS 100TH ANNIVERSARY HANDBOOK

ARRL recently announced a program whereby affiliated clubs can enroll, as well as renew, persons as ARRL members. The affiliated club must complete the paperwork and remit the dues for each member being processed. Clubs will be rebated by ARRL \$5 for each member who renews and \$15 for each new member the signs up and completes the necessary paperwork.

The club should follow the process for both new and renewal applications. Each new or renewing ARRL member should fill out the membership application for Affiliated Clubs. Payment in FULL can be

made to ARRL by check, credit card, or cash. The club then sends all applications with FULL payment along with the Club Commission Reconciliation Form to ARRL for processing. The memberships are processed once they are received by ARRL and the club receives the commission. Commission payments can be made by check to the club or Direct Deposit. The applications must have full payment sent to ARRL and the commission is then paid to the club by ARRL.

But wait, there's more!

Besides the dues rebate provided by the ARRL, the North Carolina Section will provide a copy of the 100th Anniversary Edition of the ARRL Handbook to the affiliated NC club that enrolls the most members through the ARRL program between January 1 and March 31.

OTHER MATTERS

SKYWARN RECOGNITION DAY

December 3 is Skywarn Recognition Day across the country. Many of the NWS Forecast Offices will be seeking on the air contacts with storm spotters and others to celebrate the work of volunteer storm spotters. There are several NWS offices that provide forecasts and storm warnings for various parts of North Carolina. These include Morristown TN, Greer SC, Blacksburg, VA, Raleigh NC, and Wakefield VA. Many of these forecast offices will be on the ham bands making contacts. For information about Skywarn Recognition Day go to <https://www.weather.gov/crh/skywarnrecognition>.

UPCOMING EMCOMM COURSES

a. WINLINK RADIO EMAIL COURSE –This is a ten module course that develops a good understanding of what Winlink can do and how to use its capabilities. Students will receive a new module each time one is completed. All modules must be completed by January 2, 2023. Information can be found on TERMS (<https://terms.ncem.gov/TRS/logon.do>) under the date November 21.

b. AUXCOMM – although final details are being worked out, the Auxcomm course will be offered in Sanford on January 27, 28 and 29, 2023. Certificates of completion for the current versions of ICS 100c, 200c, 700b and 800d and a valid amateur radio license are required in order to register for the Auxcomm course. The course will soon be listed in TERMS but is not yet listed. Take this period to update or complete the ICS courses which are offered on line, with no cost, at <https://training.fema.gov/is/>.

Upcoming Ham License Classes

a. Cabarrus County (Concord) - Cabarrus Amateur Radio Society released

this information. Ham Radio Licensing classes for 2023.

Technician Class Instruction - This class is for those who do not currently hold an FCC Amateur Radio license. Classes are held in six sessions on Tuesdays and Thursdays at 7:00PM and last about 90 minutes. The last session will include a testing opportunity. Session Dates: January 17, 19, 24, 26, 31, and Feb. 2.

License Upgrade classes For currently licensed Amateurs desiring to upgrade to General or Amateur Extra. Session Dates: February 14, 16, 21, 23, 28, and Mar. 2. For information contact Dave Whiteley W4DPW at hospiceforcars@windstream.net

b. WAKE FOREST NC

Chris Cancilla (W4CEC) is arranging a Technician License course on the last three Saturdays in January at the American Legion. This class will be followed later by a General License course. For information go to <https://w4cec.com/registration/>.

MISCELLANEOUS ITEMS

COLORADO HAM CITED BY FCC FOR UNAUTHORIZED OPERATION ON STATEWIDE PUBLIC SAFETY SYSTEM

On November 16, 2022, David Dean, K0PWO, received a Notice of Violation from the FCC for operating a radio on the Colorado Statewide Digital Trunked Radio System. According to FCC notice, Dean was in possession of a cloned radio which was recognized as illegitimate each time the radio was turned on and pinged a nearby tower. The notice can be found at <https://docs.fcc.gov/public/attachments/DOC-389269A1.pdf>.

CLOCK ISSUE IN ICOM 7300

I purchased an ICOM 7300 approximately four years ago. Recently the clock display stopped keeping time and started at 0:00 each time I power edit up the rig

One option is to replace the clock battery which requires opening up the radio and doing chassis-level work. However, you do not want to do a battery replacement, you may want to download and install the ST-4003W firmware update from ICOM that synchronizes your radio clock display with the clock on your computer each time you power up your 7300 Information can be found at https://www.icomjapan.com/support/firmware_driver/3428/.

CLOSING COMMENT

Most of us will find joy and happiness as we celebrate Thanksgiving tomorrow. Most of us will sit at a bountiful table filled with scrumptious food beings s hared with family and friends and perhaps we will eat more than we should.

However, not everyone will have the celebration that most of us will have. The list includes members of the military who are far from home, people in hospitals and hospice centers as well as those who care for others. There are our public safety responders, including fire, police, EMS, and telecommunicators who will be there at 911, ready to send you the help you may need. Some parts of the country will experience harsh weather that requires utility workers to leave home to restore essential services.

Unfortunately, there are people who have face financial struggles who will not see much to be thankful for.

Here in Watauga, the Sheriff's Department is collecting clothes and other items for the homebound elderly and the homeless.

Take a minute and think of all the stuff that you might donate to a homeless shelter or a church-related clothing or food bank.

I want to send Thanksgiving wishes out to NC ARRL members across the state with hopes that you have a day of family get-togethers, filled with happiness over our many blessings.

Marv, WA4NC

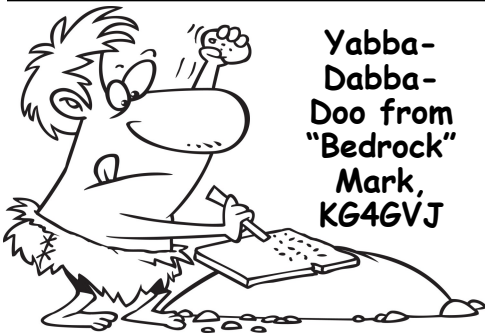
NC Section Manager

mkhoffman2006@gmail.com

ARRL North Carolina Section

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





Yabba-
Dabba-
Doo from
"Bedrock"
Mark,
KG4GVJ

Welcome to December folks, I'm tired after working in the rain today folks, so hopeful No mistakes from me. After that line, I notice problems.

January 2023 will have some changes folks, at least that's the plan. We will be providing the Newsletter to another Club, hopefully providing for their needs.

Most of the pages here is from Emails I received thru the month. Some articles may be held onto for the following months because it is a event happening at a later date and others are information that new readers may need later, such as the Hurricane or ARES resources. I do try to click on some of the links in these pages once in a while to learn if it is still valid, and try to update or delete them if they are not.

At this point now, I am finishing the newsletter. A few days has gone by since the above comments. I've been busy after work with driving my wife to a meeting and for a doctor call for a infection I'm fighting. The last of the reports and comments has been sent to me, inserted and corrected as needed. No reason if possible to show any goofs in spelling, or facts in articles provided. Hopefully, any mistakes are only mine.

I'm looking forward to seeing as many as may show up for the Christmas meeting.

73, Mark KG4GVJ

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 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/>.

Other Club's Meetings and News

Forsyth Amateur Radio Club (FARC) W4NC

Like us, FARC is also having to deal with the Virus these days. They meet on the 2nd Monday of the month at 7:30 PM at the Red Cross Blood Center on Coliseum Drive in Winston-Salem. As this is a medical site, mask are required please.

ARES/Auxcomm training is on the 3rd Thursdays at 8:30 PM at 897-9792-5844.

Tech-Talk is on Wednesdays at 7:30 PM (informal) 549 621 524.

Password is their Call sign. From FARC website, <https://w4nc.com>

Repeaters: 145.47 (100), 146.64 (100), 444.275 (100)

New Bern Amateur Radio Club started Live Meetings

Next meeting @ 6:30 PM (Always 1st Monday of each month) at Moore's Old Tyme Chicken, BBQ & Seafood, 3621 Dr. M.L.K. Jr Blvd. New Bern, NC 28562 (next to Harris Tee-ter Shopping Center). Be sure to drop by and check out the New Bern Amateur Radio Webpage at <https://nbarc.org/> and check out the wealth of info on the LINKS page at <https://nbarc.org/ham-links/>
Repeater 146.610 T-100, Net every Tuesday at 7pm

CARTERET COUNTY AMATEUR RADIO SOCIETY W4YMI

Regular club meeting is normally held on the fourth Saturday of each month (except December) at Cox Family Restaurant on Highway 70 (4109 Arendell St.) in Morehead City. We meet for breakfast at 8:00 am, with the meeting getting underway promptly at 8:30. Please park your car in the parking lot behind the barber shop and enter through the door on the east side of the building.

IMPORTANT: Due to the corona virus, we ask that people attending are vaccinated. Also, please use your best efforts to maintain social distancing.

[Carteret County Amateur Radio Society \(w4ymi.com\)](http://www.w4ymi.com)

Repeaters:

W4YMI Digital (DMR) - 444.975+, Color code 1.
Analog Repeaters:
K4GRW Newport 145.450, Offset of +5, tone 100.
W3ENK Newport 444.825+ offset of +5, tone 88.5
KD4KTO Stacy 444.000+ offset +5, tone 162.2
Area 6-meter repeater 53.090 MHz, offset of -1, tone 162.2

Nets every Tuesday night at 7:30 PM -8:30PM

New Club Website: From the Secretary
Last week my work on the CCARS website included adding a public forum. The forum is an interactive area of the website where users can post news, ask questions, socialize, post photos of their projects and events, post ham gear for sale or wanted to buy, and post comments or Elmer advice on various Ham radio topics such as antennas, radios, digital and CW modes, etc.

As far as I am aware, CCARS is the ONLY CLUB in the area that has this feature on their Club website. So we are setting the bar as far as our Club webpage goes. I hope to get participation on the forum from CCARS members and I would like to see Hams in the area Clubs such as New Bern and Onslow use it as well. A forum is only practical if

there's activity on it. Currently I am the only member there. One of the advantages of the forum is that when the Hurricanes hit our area, the Internet is usually still working. Even those without generators who have no power still often have a working cell phone that can access the Internet. Therefore, those who can't power their Ham equipment can still communicate both with other club members, locals, and even with Ham friends in other areas via the Club forum.

Please take a minute to check out your forum. It is accessible from the CCARS website at www.w4ymi.org. Click on the "forum" link at the top right of the navigation bar, or directly at [Home | W4YMI \(freeforums.net\)](http://Home | W4YMI (freeforums.net)).

A few things to keep in mind, you have to register to post to the forum. The "Ham gear for sale" and "Ham gear wanted" section is hidden from the public. Only those who join the forum can see these sections. I did it that way to deter the scammers and con people who would surely contact you from Nigeria and elsewhere to run their scams if they could see your items for sale/items wanted posts. Also bear in mind the forum reflects on our Club, so please keep your posts family-rated and civil just like you would if you were speaking on the radio.

Enjoy the new forum and if you think there should be new categories added, just let me know and I can add it.

73 de Anthony, KD3Y

Feb 9, 2022 **2022 Public Service Events**

Greetings Volunteers,

The 2022 public service event season is just around the corner and I am happy to announce that I expect a full schedule of at least 9-10 events. As usual, the schedule is bike-event heavy but there is at least one event, the MS Walk on April 2nd, that will not need SAG vehicles and will be mostly stationary.

I am also happy to announce the creation of a new [Ham Public Service North Carolina \(HPSNC\) website](#) where you will find the new event list and other information about volunteering for public service events. You can [sign up via this new website](#). The [RARS website public service page](#) still has the schedule and other information posted and you can still sign up there as well. However, all sign-ups will move to

the new website in the near future. The HPSNC website includes a blog page where I plan to post articles of interest, photos, information about public service, etc., so keep an eye on that space.

As you are all aware, each event needs several volunteer radio operators to ensure the transmission of consistent, accurate, and timely information to the event organizers. I will be asking for volunteers throughout the season and relying on all of you to help make this year a success. I am also working hard to add new volunteers to the roster this year. There seems to be a lot of new hams getting their licenses lately. Perhaps I can lure some of them in with the promise of a free volunteer T-shirt! Seriously, I can't think of a better way for new hams to get over mic fright and to learn good radio and communication skills.

I thank all of you for your past participation and your continued commitment to supporting worthy causes while doing something we love – talking on the radio. I hope to see all of you at this year's events.

73,
Jeremy Lindsley – K2HJX
On behalf of HPSNC

ARRL North Carolina Section Traffic Manager
NTSD MBO TCC/EAN/4RN
RRI Digital/Winlink Liaison

From: Mark *****
Sent: Monday, May 9, 2022 17:04
To: w4dna@*****
Subject: Eastern North Carolina Traffic Net

Mr. Roy,

I am Mark Raysin, KG4GVJ in Greenville, NC. I've noticed the Traffic Net has not been in operation from the 146.685 repeater as listed. In talking with another operator on the repeater, I learned the long standing Net Control operator had retired from the position and no one had stepped in to run the Net. Would it be alright to try to startup the Net again and if there is a list of control tones to bring up and drop the Net and a script?

Thank you.

73,
Mark ***** , KG4GVJ
Brightleaf Amateur Radio Club
"Ham Chatter" , Editor

Email about the Traffic Net:

Hi Mark – great to meet you!
We have moved the net to the N4HAJ 440 linked system, including the 444.725 repeater in Greenville.

Long story short, the receive antenna for the .685 repeater is gone – totally. Only the hard line left. Some can still get into it, but not reliably. We are trying to get a replacement antenna installed, but access was limited to the primary users antenna modes. Now the elevator is broken...

Feel free to join us at 2030L on the linked system. I call it nightly, except Saturdays. Doug, K4ROK calls it that night.

73 de W4DNA – Dave



Pamlico Amateur Radio Club, K4BCH

The Pamlico Amateur Radio Club organization (PARC) of Eastern North Carolina is an active group of "Ham" radio operators, primarily living in or around Beaufort County, NC. Club membership is open to any amateur radio operator and/or family member, as well as to interested non-Hams.

Since its beginnings in 1991, Club members have provided essential emergency communication services to Beaufort and surrounding counties, through actual disaster communications support, disaster shelter support, as well as practice search and rescue support exercises (SARX) organized by Beaufort County Emergency Services personnel.

In addition, the Club provides non-emergency communications assistance to other community organizations such as long-distance runs, kayak races, and fund-raising events as requested. Annual Field Day in June and the annual Christmas Party/meeting, amongst others, offer great opportunities to socialize, meet members and guests, as well as learn about the hobby.

PARC is a 501c3 non-profit organization legally formed under the laws of North Carolina. The Club meets at 7pm on the THIRD Thursday of each month at the Zion Episcopal Church, 7322 Highway 264 East, Washington, NC. We also have the Club Net monthly on the FIRST Thursday at 8pm.

These monthly Nets offer practice for those who check-in for message-handling procedures in the event of actual emergencies; the formal portion of Net lasts about 20 minutes, followed by informal comments from Net check-ins. The Net VHF frequency is 146.955 MHz, minus 600 offset, PL tone 131.8 operated through the Bath, NC repeater. A new club repeater is available at 147.255 MHz, plus 600 offset, PL tone 131.8. These repeaters are used daily by many of our local Hams and are monitored regularly by some of the PARC Members.

Please feel free to contact any Officer for more information. Please come join us at a Club Meeting on the 3rd Thursday @7pm. Meeting location:

Zion Episcopal Church
7322 US Highway 264 East
Washington, NC 27889

Contact info:
Pamlico Amateur Radio Club, Inc.
104 Bluegill Dr.
Washington, NC 27889

Or email us at:
info@k4bch.com





As the holidays draw us into the season of celebrations and charitable giving, we invite you to help ARRL meet its mission of supporting our next generation of radio amateurs: **young hams!**



ARRL wants to raise \$25,000 to help support and expand our programs and initiatives for young hams:

- **ARRL Student Membership Discount.** Did you know that ARRL membership is only \$25 for individuals under 26 years old? Your gift will help subsidize ARRL Student Membership.
- **ARRL Youth Licensing Grants.** ARRL covers the one-time \$35 FCC application fee for new license candidates younger than 18 years old for tests administered under the ARRL VEC program. Also, their exam session fee is reduced to only \$5 (normally \$15).
- **Outreach to Teachers and Schools.** ARRL has resources to help educators and volunteers bring ham radio into classrooms, engaging students in science, technology, engineering, math, and the arts (STEM/STEAM). *ARRL is inspiring students to pursue higher education and careers paths in radio technology and radio communications.*
- **ARRL Collegiate Amateur Radio Program.** Since 2017, the ARRL Collegiate Amateur Radio

Program has networked students and their campus radio clubs. We engage students in monthly meetings and drawings, best practices for vibrant college clubs, and notices of career opportunities. *This next generation of young hams are already active, engaged, and on the air!*

• **Kids Day and School Club Roundup.** ARRL sponsors on the air fun for young hams!
Promoting partnerships. ARRL's partnerships support many youth programs including Amateur Radio on the International Space Station (ARISS) and outreach to scouts.

Many members say they want more young people to pursue amateur radio. But few actually know how to support these efforts. Can we count on you to choose ARRL now, and help us reach our Giving Tuesday fundraising goal of \$25,000? Visit www.arrl.org/give and give today.

Happy Thanksgiving, and thank you for your support!

Very 73.

David Minster, NA2AA
ARRL CEO

The American Radio Relay League, Inc. is an IRS-designated 501(c)(3) organization holding federal tax identification # 06-6000004. Contributions to ARRL funds are tax deductible to the extent allowed by law.



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](#)

· [Emergency Communications Training](#)

The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

How to Get Involved in ARES: Fill out the [ARES Registration form](#) and submit it to your local Emergency Coordinator.

AUXCOMM Training

REQUIRED TRAINING

The State of North Carolina has mandated that all personnel performing any functions within any Emergency Operations Center, forward Command Post, or any Incident where Incident Command System (ICS) is used have

completed basic ICS training. This training is available via the FEMA Learning Institute's on-line training system at <https://training.fema.gov/nims/>. Training required is ICS-100, ICS-200, ICS-700 and ICS-800.

It is recommended taking the courses in the following order: ICS-700, ICS-800, ICS-100 and ICS-200. You will be asked to register for the courses and a certificate of training will be issued upon successful completion. Team members are requested to forward an electronic copy of their certificate's to the AuxComm - ARES EC at the email address below. Completion of these courses will permit AuxComm - ARES team members to perform Radio Operator at duties an EOC or other ICS Command location. Each course is self-paced and should take approximately 3 hours to complete on-line.

We suggest keeping clear of the Frequencies use by Hurricane nets during the Hurricane season along with posted frequencies during other Emergencies.

Editor

Staying Flexible and Adaptable: Planning for Communications Continuity

Achieving secure and resilient voice and data communications across the Emergency Communications Ecosystem is essential for public safety agencies to execute their missions. However, as emergency communications systems and functions become more interconnected, they also become more vulnerable to impacts from physical and cyber-based threats and hazards. The [National Emergency Communication Plan](#) (NECP) highlights the critical need for public safety organizations to plan for continuity and recovery of critical communications. Despite its importance, the [SAFECOM Nationwide Survey](#) found that less than half of public safety organizations build processes into their plans to ensure continuity of communications during out-of-the ordinary emergencies or disasters.

A webinar hosted by the Cybersecurity and Infrastructure Security Agency highlighted the importance of continuity capabilities in the emergency communications ecosystem and provided participants with best practices for ensuring limited loss of critical communications during incidents. Speakers discussed specific communications elements that should be considered; explained how existing capabilities should be updated or upgraded to ensure continuity based on lessons learned; and provided real-world experiences on how jurisdictions have adapted to mitigate mission impacts from communications vulnerabilities.

Continuity capabilities-building principles, practices, and resources are available at the FEMA [National Continuity Resource Toolkit](#) and other sites. It's important to periodically review and update or upgrade capabilities and leverage the NECP to understand and build emergency communications resilience. [Get additional information on the webinar series](#).--Cyber Security and Infrastructure Security Agency (CISA), US Department of Homeland Security

Operating Tips: Simplex and Programming Channels

Many opine that simplex is the ultimate mode of
Email ARRL Clubs: clubs@arrl.org

Pickering, KB4RSY, communications tech for the large EOC in Flagler County, Florida, conducted an all-simplex exercise annually. Recently while reprogramming my radios I devised a method to incorporate simplex frequencies to make "retuning to simplex" easy and fast. All of my local repeaters are programmed to the uneven channel numbers and the simplex frequencies to the even channels. One rotational click and I can check a simplex channel for use. - *Lou Mecseri, KE1F, Palm Coast, Florida*

A Case for Not Programming Repeaters into the Memories of your Radios

If you are like me and most other operators, you have programmed your area repeater frequencies into the memory channels of your radios. Recently, when I needed to switch to a new repeater frequency, I could not remember how to enter the PL tone and offset - an aggravating factor may be that I'm almost 70 years old with a slowly eroding memory! I resorted to reading the radio's operating manual. Now, I forego using the memory channels and instead enter the repeater frequency, offset, and PL tone manually each and every time so that I'll have the muscle memory needed to select repeater parameters on the fly in the field. Think about it - it only takes a second to enter the parameters. - *K1CE*

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

National Preparedness: List of Disasters

Consistent with the goals and objectives of National Preparedness Month, here is a list of natural and man-made disaster scenarios we should all be familiar with.

[All Hazards](#)

[Emergency Alerts](#)

[Attacks in Public Places](#)

[Avalanche](#)

[Bioterrorism](#)

[Chemical Emergencies](#)

[Cybersecurity](#)

[Drought](#)

[Earthquakes](#)

[Explosions](#)

[Extreme Heat](#)

[Floods](#)

[Hazardous Materials Incidents](#)

[Home Fires](#)

[Household Chemical Emergencies](#)

[Hurricanes](#)

[Landslides & Debris Flow](#)

[Nuclear Explosion](#)

[Nuclear Power Plants](#)

[Pandemic](#)

[Power Outages](#)

[Radiological Dispersion Device](#)

[Severe Weather](#)

[Space Weather](#)

[Thunderstorms & Lightning](#)

[Tornadoes](#)

[Tsunamis](#)

[Volcanoes](#)

[Wildfires](#)

[Winter Weather](#)

[Recovering from Disaster](#)

K1CE for a Final: Send It In (Please)

This newsletter goes out to a subscriber list of almost 40,000 each and every month. There are a number of significant aspects of the newsletter, which has been in monthly production and circulation for almost 20 years. As with any newsletter of this nature, there is a regular group of contributors that provide the majority of articles, reports and other input. If you and/or your ARRL Section ARES program administrators are not one of them, please consider providing reports of your section's activities: the ARES community at large will benefit and learn from them, and your hard-working ARES volunteers will receive national exposure and the recognition they deserve. Thank you.

ARES® Briefs, Links

ARES and other amateur radio emergency communications volunteers were busy throughout preparations for, and in response to, Tropical Storm Nicole as the storm crossed the Atlantic and made landfall in Florida as a hurricane on Thursday, November 10, 2022, around 3:00 AM EST. The National Hurricane Center (NHC) had upgraded the tropical storm to a hurricane on Wednesday night when Nicole made landfall on Grand Bahama Island. The storm soon returned to tropical-storm status, after moving over east-central Florida.

[The Hurricane Watch Net](#) (HWN) activated Wednesday morning at 10:00 AM EST on their primary frequency of 14.325 MHz. The net disseminates the latest NHC advisories and obtains real-time ground-level weather conditions and initial damage assessments from amateur radio operators in the affected areas, and relay that information to the NHC by way of their station, WX4NHC.

The [VoIP Hurricane Net](#) began monitoring conditions at 8:00 AM EST on Wednesday morning, and activated at 12:00 PM EST. The net remained active potentially through 12:00 PM EST on Thursday. [Read](#) the Wednesday post from Director of Operations for the VoIP Hurricane Net Rob Macedo, KD1CY.

Amateur Radio Liaison to the State of Florida Arc Thames, W4CPD, reported that the radio room in the Florida State Emergency Operations Center (EOC) was staffed for any emergency traffic. The center monitored HF nets and the 70 cm Statewide Amateur Radio Network (SARnet), a network of linked repeaters that serves Florida. Additionally, the Statewide Emergency NET was activated on Wednesday at 11:00 PM EST/10:00 PM CST, with plans to run the operation for approximately 24 hours. More information is available at <https://floridaemergency.net>.

ARRL Southern Florida Section Manager Barry Porter, KB1PA, reported activations of ARES groups and counties that had activated shelters. Northern Florida ARES was operating at "Level 3 MONITORING." - *John E. Ross, KD8IDJ, The ARRL Letter*

The Boulder (Colorado) Amateur Television Club (BATVC), a preeminent television mode group that supports amateur television experimentation and its application for emergency preparedness and response, has reported on the possibility of sending live video (not SSTV) on the 10-meter band. Please see the discussion in two recent ATV newsletters -- [TV Repeater's REPEATER](#), issues 114 and 115. -- *Jim Andrews, KH6HTV, Boulder, Colorado*

The FEMA Emergency Management Institute (EMI) has released a new online study course and exam on [Preparing the Nation for Space Weather Events](#). The course identifier is IS-66. ARRL Director of Emergency Management (DEM) Josh Johnston, KE5MHV, took the course and passed the exam. Johnston said: "This course provides some interesting insight to the Federal Government's role and

response to space weather events." It also "explains the levels of response the government uses in regard to space weather events." Johnston concluded: "This course would be a good training course for any ham to gain a better understanding of how space weather affects communications here on Earth." "This is a useful course and only takes about 2 hours to take online," Johnston said. A FEMA student ID is required and is free from the Emergency Management Institute online.

Ian Meets ARES

By Christine Duez, K4KJN, Section Emergency Coordinator, ARRL West Central Florida Section

Hurricane Ian roared ashore near Ft. Myers on September 28 as a category 4 hurricane packing 150 MPH winds. Duwain Hunt, W8JJV, of Port Charlotte, part of the ARRL West Central Florida Section, called it the event of a lifetime - one he never wanted to repeat. Hunt graphically compared it to being run over by a 1,000-car freight train while being sprayed down with a fire hose. During the recent Section ARES meeting, we took a look at some of the problems confronted by ARES operators and how they worked with valor, determination, and common sense to solve them.

Hunt operated from his home emergency station. All 94 residents in his complex made it through without harm or major incident. More than 25 inches of rain fell. Flooding was widespread. One shelter in Charlotte had 2 inches of water on the floor and to avoid rising waters, the radio operators resorted to getting on top of tables to keep communications going. Another shelter operator couldn't transmit from inside the building, so the operator trained the shelter manager on the radio so he could go outside to maintain the antenna. Another shelter lost its roof and had to be evacuated. Hunt's takeaway: shelters must be staffed by those who can think on their feet. You can never anticipate or drill for every eventuality a storm like Ian may present.

Chuck Johnston, W4CWJ, of Rural Communications, an internet service provider, spoke next. He heads the Sarasota Agricultural Response Group (SARG) net. (They had run two extensive drills, High and Dry [first operational period] and High and Dry 2 [second operational period] that prepared them for dam breaks and flooding.) Counties on the east side of the I-75 corridor are rural and have large herds of horses and cattle. Meat and dairy are huge industries in the region.

SARG chose NXDN (Next Generation Digital Narrowband, NXDN, is an open standard for public land mobile radio systems) radio equipment because it works well in the fringe areas of other repeaters. They also used it to network between Sarasota and Charlotte counties without tying up other repeaters. Before the storm, they used the system to notify and assist the Sheriff with clearing a blocked roadway into a large subdivision that would later be closed for emergency services only. After the storm, they worked with the State to service a three-county area and set up a resource staging area.

In Myakka City alone, more than 700 head of cattle were lost to flooding. SARG worked six animal emergencies, five human welfare checks and rescues, and six road closures. One of their anemometers in rural Sarasota recorded 135 MPH sustained winds and the Myakka River levels exceeded all previous records. True flood stage levels will never be known. They also worked with Sarasota ARES to establish communication between the North Port EOC and the Sarasota EOC. When electricity and the P25 link went down, there was no way to communicate until ham radio solved the problem. At around 3:00 AM, a dam breach flooded about 40 homes and water quickly rose up to the windowsills in the Hidden River area. SARG responded to a local church and set up a communication point there. Another invaluable service was the situational reports (sitreps) on roads provided

by SARG to assist those trying to bring supplies and aid into damaged areas.

Sarasota ARES Emergency Coordinator (EC) Gary Wells, WB9AYD, added that right after the storm passed, North Port was without communication, internet, or water. Dispatch was handled from a motor home outside City Hall. They ran comms from Wells' car through a linked repeater system that gave the North Port Chief access to the Sarasota Chief. The problem was a loss of alignment between two antenna dishes. By 3:00 PM, they had comms back up. At that time the water was closing major roadways. Sarasota has no radio room at the EOC, so operators swiftly set up in the lobby and used runners to pass messages for 3 days. One big improvement will be a facility at the Red Cross with representatives of CERT, the Red Cross, and ARES all in one place. They also decided to go to the NXDN radio for better coverage.

Charlotte County EC Tom Chance, K9XV, reported on severe wind damage from 124 MPH winds lasting 24 hours. One of Charlotte's biggest problems was getting volunteers. Citizens were reluctant to leave family and potentially be in a lockdown situation for up to 36 hours. Three shelters were set up; two suffered serious damage, losing roofs that let in both rain and wind. Communication problems affected everyone and one shelter with dialysis patients had to be evacuated. Four of seven towers were down and P25 was disabled after the eye of the storm had passed over. Operators worked on antennas and had P25 and amateur radio back up soon after the storm passed. Two repeaters suffered major damage, losing the main communications coordination system during the eye of the storm and operators had to move to backup systems, a process that went smoothly. They were thrilled with the NXDN radios and protocol because they were clear and dependable.

A special thanks went to Paul Toth, NB9X: His weather briefings were timely and better than those given on commercial stations. Charlotte had invaluable hourly reports from Toth on NXDN who worked with NOAA to make sure the ARRL West Central Florida Section had the very latest information. As soon as the NOAA report was received, Toth forwarded it to the EOC management and read it over the NI4CE repeater system. Another huge positive for NXDN was a Recovery/Resource Net for the week following Ian. Charlotte used it to pass information on road closures, and other pertinent information several times each day. One more good outcome was that a fine relationship was established between ARES, the EOC, and the Joint Information System. [*The JIS is the fourth NIMS Command and Coordination structure. JIS integrates incident information and public affairs into a unified organization that provides consistent, coordinated, accurate, accessible, timely and complete information to the public and stakeholders during incident operations. -- Ed.*] Everyone is now on the same page with the same information - that is a BIG plus. It will still be another month before an after-action report (AAR) can be completed. The county is still very much engaged in recovery.

Hunt added that with the two major roads and many surface streets closed due to flooding, they were isolated. For 3 days food and gas were at a premium. Gas lines were impossibly long and residents were advised that it was faster to go to a neighboring county than to wait in the lines. Consider this staggering fact: of 125,000 electric customers in Charlotte, only 2,000 had power when Ian left. Many thanks went to the 57,000 electrical workers who labored tirelessly to restore the power.

So much data was accumulating so rapidly, it was impossible to disseminate reliable information quickly and accurately. Once again, SARG filled in with sitreps on rural areas and back ways to get into the area. Some areas were totally cut off, but SARG had conducted extensive drills using experienced amateur radio operators as net control stations to keep information up to the minute for residents and emergency workers in east Sarasota and throughout the rural areas of Charlotte, Sarasota, and DeSoto counties.

Sanford Wyatt, KM4WXX, lost power, grabbed a flashlight to look outside and found water at his doorstep. With only 20 minutes to save what he could, he had to pass the net control duties on and relocate his station to the second floor. His comment - "we stayed on the air because we had a lot of people who could think on their feet."

Hardee County EC Darrell Davis, KT4WX, reported mostly loss of electricity, and flooding. Hardee is an inland county, but has two large rivers that converge. Flooding and road closures were a major problem. Without electricity or cell phone service, Hillsborough County brought a portable communication package to Hardee County. Many of the routes into the area of extreme damage were through Hardee and Highlands counties. Sitreps were important to those trying to get to coastal counties.

Mike Lechky, W0MJL, in Highlands County, operated from a hotspot in his car. He was located in a special needs shelter that lost power and needed help for a dialysis patient. The EOC was running on generator power and the only person still there was Randy Payne, K4EZM. For a while, he was the only communications Highlands had. Happily, they did get the patient help thanks to ham radio.

Hillsborough is a coastal county that braced for Ian, but was spared when the storm turned sooner than anticipated. They had 28 amateur radio operators and opened four special needs shelters. By Monday afternoon there was a total of 1,700 volunteer hours given to Ian response. One major problem they noted is that the school server is housed in a flood zone. It was closed for safety reasons, leaving the shelters with only ham radio communication. One success story was the location of an oversized ambulance to transport an infant in an incubator to St. Josephs Children's hospital.

Pasco County EC Tim Cunningham, KM4YGV, reported minimal hurricane damage. Pasco is the farthest north of the West Central Florida Section counties. He did head into Ft. Myers to rescue his father and was caught in a huge traffic backup due to road flooding. After many hours in a traffic jam, ham radio again saved the day by finding him a way to get his dad much needed medical care.

Polk County EC and ARRL West Central Florida SEC Christine Duez, K4KJN, reported widespread tree damage and power outages. Flooding in the southern portion of the county was a major concern. The EOC was on lockdown as part of the eye wall passed over. Being inland, Ian had already started losing its punch. Citizens did experience gusts of up to 135 MPH, but sustained winds were much lower. Polk also suffered from a need for more amateur radio operators, but took advantage of those who were resourceful and had alternate power supplies at their own homes.

As the ARRL West Central Florida Section Emergency Coordinator, I am very proud of and thankful for all who trained and prepared through previous courses and exercises, and then for their herculean Ian response and recovery efforts. It gave them invaluable experience, which helped all of us face the events as they unfolded. It's all money in the bank for the next disaster situation.

ShakeOut 2022: Radio Operators Send Winlink DYFI Reports to USGS

On October 20, 2022, hundreds of radio operators from around the world sent [Winlink](#) "Did You Feel It?" DYFI exercise reports to the US Geological Survey (USGS) during [ShakeOut](#). In real events, DYFI messages help the USGS determine the intensity of an earthquake. "ARES radio operators are uniquely positioned to respond after a disaster and to provide USGS with DYFI-based shaking

intensity reports since they can contribute without the need for power or internet," said Dr. David Wald of USGS.

But the Winlink DYFI form also offers an "Exercise" option, which is a unique feature that allows volunteer radio groups to practice sending DYFI reports to USGS on a regular basis. For ShakeOut 2022, USGS mapped 771 Winlink DYFI exercise reports. Of those, 65% were sent via RF and 35% via Telnet (internet).

USGS also tested a volunteer radio centered live scenario with great success. The database mapped Winlink DYFI reports live to a [USGS ShakeOut 2022](#) scenario website. The Winlink DYFI reports had to match pre-set filters to be added. The scenario map focused on

Southern California, due to the high Winlink DYFI participation from San Diego, Los Angeles, and Ventura Counties located near the [San Andreas Fault System](#).

Ventura County ARES/ACS provided a service that sent a "message received" reply to all stations who carbon-copied dyfi@vccomm.org as part of the exercise.

Groups from San Diego to Bellingham in Washington state conducted local ShakeOut exercises that tied in with international ShakeOut.

Many radio groups also tested their response capabilities during ShakeOut. For example, [ARES LAX Northeast](#) tested Winlink gateway HF forwarding capabilities, sending reports via VHF to KN6BKT-10 and forwarding them out-of-area via HF gateway.

Others, like the [Kentucky Winlink Net](#), relied on direct HF connections to send DYFI reports. Of special note: Kentucky Winlink Net operators pivoted to sending DYFI reports via gateways with very little notice, demonstrating the value of regular training and participation in nets.

The [Emcomm Training Group](#) organized a Winlink DYFI exercise around ShakeOut encouraging members of all skill levels to participate, as did many other participating groups.

Internationally, Philippine Amateur Radio Data Network radio operators sent in DYFI reports through their growing [Winlink gateway network](#). Moreover, radio operators from Austria, Germany, the UK, Panama, and Australia sent in reports to USGS.

Among the lessons learned during the ShakeOut 2022 Winlink DYFI were that more training with geocoordinates (latitude and longitude in degree decimals) is needed. Quite a number of North American stations used a positive longitude (E) rather than a negative longitude (W) on their DYFI reports, which located their reports in China or Kazakhstan.

Also, coordinating one Exercise ID ("ShakeOut2022") across all groups for national and international exercises will reduce workload for USGS. Overall USGS personnel were pleased with the wide national and international participation in the Winlink DYFI exercises for ShakeOut 2022. The next In-



North American [USGS Winlink DYFI reports](#) mapped by Oliver K6OLI, data courtesy of USGS. Learn more about [earthquake magnitude, energy release and intensity](#) from USGS.

ternational ShakeOut is on [October 19, 2023](#). -- Oliver Dully, K6OLI, Forms Manager, Winlink Development Team

[Dully serves as District Emergency Coordinator for ARES LAX Northeast, which provides amateur radio communications backup for 911 receiving hospitals in northeastern Los Angeles County. Operators with ARES LAX Northeast use innovative technologies like Winlink with VARA HF, VARA FM, Packet, and AREDN mesh, for example, to provide amateur radio solutions for the complex communications demands of medical facilities when commercial options may have been compromised. He is one of the initiators of the VARA FM Winlink Autobahn connecting Los Angeles and Ventura Counties. Dully has authored several popular Winlink Quick Guides for Packet and VARA FM. He coordinates the Winlink Did You Feel It (DYFI) project, a Winlink Development Team collaboration with the United States Geological Survey. -- Ed.]

[ARRL ARES Section News](#)

Minnesota Section

Hams Hold Functional Exercise to Support Minnesota VOAD -- On October 22, 2022, hams in Minnesota held their third Functional Exercise (Downdraft-3) in support of Minnesota VOAD (Voluntary Organizations Active in Disaster). The idea is, in the recovery phase of an incident, coordination and safety, as well as documentation, are critically important.

Hosted this time by the City of Bloomington, we focused on the aftermath of a simulated severe weather event -- winds and heavy rain. The Red Cross provided sheltering, the Salvation Army coordinated feeding, and [Team Rubicon](#) provided three field teams for chainsawing and mucking out after simulated damage to more than 150 homes. The County EOC and State of Minnesota resources were participants. The Latter-Day Saints staffed the Volunteer Reception Center. ARES provided communicators.

Several after action findings were reviewed. I served as exercise planner but was out of the country, so there was not enough attention on the high-level scenarios and [HSEEP](#) plans. Lacking that planning function, there was a tendency for hams to get too focused on the details -- tactical call signs, frequency offsets, beam headings, etc. The communications plan was for simplex operation, but the final exercise design covered a larger area of the city.

We think that for the next exercises, leadership will focus on the HSEEP planning and documents, and for day-to-day tactical use we will publish an Incident Action Plan (IAP), which is quite familiar to hams and contains the [ICS 205 form](#), the radio communications plan form. It was suggested a formal [SimCell](#) be established to better manage injects such as: "Need one gallon of bar oil, four each 50:1 pre-mix fuel (32 oz.) request thru Team Rubicon," "Four each 20 ' x 20 ' tarps, 30 each furring strips and roofing kit for expedient roof repair."

We are fortunate to have hams embedded in leadership in so many of the local volunteer groups. But you can plan and deploy your own exercises using lower level volunteers and/or role players to simulate the agency officials. The idea is to sort out and practice the natural coordination and information flows you would need. -- Erik Westgard, NY9D ARRL Assistant SEC-T, Minnesota Section

Maryland/DC Section

Calvert Amateur Radio Association Conducts Simulated Emergency Test -- On October 15, 2022, the Calvert County Auxiliary Communications Services of Maryland, associated with the Calvert Amateur Radio Association (CARA), conducted a Simulated Emergency Test (SET).

The test was designed to evaluate the capability of a county-provided, amateur-band radio system that uses Kenwood TM-V71A transceivers and Remoterig RRC-1258 hardware over the county-secure intranet to a tower site in Barstow, Maryland.

Remoterig gear allows for the separation of the front panel from the radio's RF deck, similar to a mobile installation. But with Remoterig, the separation cable is a TCP/IP network, allowing an arbitrarily long distance between the front panel and the RF deck. For the SET, the radio's front panels were in the Emergency Operations Center (EOC), and the RF decks were at a tower site about 3 miles away, near the geographic center of the county.

The planning and implementation of this system was guided by Calvert RACES Officer Bill Hackett, N3XMZ, and Calvert ARES® Emergency Coordinator Shawn Donley, N3AE, using county funding.

The first part of the test was to determine if MT63-2000L digital mode would work over the Remoterig system to augment existing Winlink capability.

The second part of the test was to have CARA members transmit on simplex from mobile transceivers from various locations in the county to the Barstow tower. Transmissions from low-lying areas were preferred, such as the many waterways and other locations that may need to be accessed during disasters. The tests were on 2 meters and 70 centimeters.

The results showed that additional work is needed to send MT63-2000L over Remoterig terminals, and some changes to the audio quality settings are necessary (sampling rate and word size). As the Diamond X300NA antenna on the tower is 350 feet above the ground and the terrain of the county is flat, nearly all locations were successful in contacting the ham radio operators at the EOC, including those using low power at the tower site.

Due to unforeseen problems with scheduling a Section-wide October SET, CARA took the opportunity to evaluate its new system. Overall, the test was successful. - *John E. Ross, KD8IDJ, The ARRL Letter*

Virginia Section

Hospital Emergency Radios Tested Weekly for Past Year -- The emergency radios at Sentara Martha Jefferson Hospital in Charlottesville, Virginia have been used to complete a year's worth of weekly check-ins to the Virginia "Winlink Wednesday" radio net, but due to COVID lockouts it took more than a year to do it, with the 52nd check-in taking place on July 6, 2022. In January 2021, HF and VHF/UHF radios along with antennas, power supplies, and a digital PACTOR modem were installed at Martha Jefferson Hospital. Radios were provided through the Northwest Regional Healthcare Coalition (NWR) to hospitals throughout northwestern Virginia and have been manned by local ham radio operators for weekly check-ins to the digital Winlink network in Virginia. Such weekly exercises assure that any radio or computer issues are resolved before the radios are needed in an emergency. The Martha Jefferson Hospital radios are located in a cabinet in a dining room and can be configured in a few minutes to communicate via voice or digital communication on HF and VHF/UHF amateur radio bands. Local hams Dave Damon, K4DND, and LeRoy Caudill,

KO4JMH, have conducted the majority of the weekly exercises, but have recently begun to train other hams associated with Albemarle AUXCOMM in use of the equipment and procedures for accessing it.

Exercises consist of sending standard email messages using both VHF and HF radios to the net control station for "Winlink Wednesday." These may be structured as regular messages or as ICS-213 forms. The 12 NWR-equipped hospitals in Virginia can use the radios to exchange information necessary to coordinate responses in the event of an emergency that knocks out commercial Internet and phone communications. The check-ins can travel through Winlink gateways located throughout the US and Canada. For example, one of the Winlink check-ins during the 52nd week went through the Winlink gateway station at W1AW in Connecticut.

However, peer-to-peer (direct) contacts between hospitals without using external gateways are also possible. -- *John Porter, KK4JP, Charlottesville, Virginia*

Register to Log in to ARRL.ORG (Web site was been updated)

Follow these steps to sign in and access ARRL features and services: Go to arri.org and click "Login" which will redirect you to "Register" (please note, even if you have an ARRL account you will need to register).

This will log you in to arri.org, which now allows you to renew, donate, and shop all in one transaction.

If you need help, we're here for you. Call us Monday - Thursday from 8 am - 7 pm (ET) and on Friday from 8 am - 5 pm (ET) or e-mail us at membership@arri.org.

ARLB020 W1AW 2022 Winter Operating Schedule

ZCZC AG20
QST de W1AW
ARRL Bulletin 20 ARLB020
From ARRL Headquarters
Newington CT November 7, 2022
To all radio amateurs

SB QST ARL ARLB020
ARLB020 W1AW 2022 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.

The W1AW Operating Schedule may also be found on page 28 in the November 2022 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.

ARRL on the Purpose of Amateur Radio



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 Podcasts Schedule

On the Air podcast:

Arc Thames, W4CPD, the Section Emergency Coordinator of ARRL's Northern Florida Section and Emergency Coordinator of Santa Rosa County Florida. Thames shares some of his experiences from supporting emergency communications during Hurricane Ian.

Details from avid satellite operator Sean Kutzko, KX9X, about how to get started on the amateur satellites -- an activity that's available to hams of all license classes.

Of the ARRL [Eclectic Tech](#) podcast: (Episode 67) features a discussion of power generation using graphene, synchronizing clocks with cosmic rays, multifrequency "vascular" antennas, and listening to Very Low Frequency (VLF) atmospheric signals as part of NASA's INSPIRE project.

The *On the Air* and *Eclectic Tech* podcasts are sponsored by Icom. Both podcasts are availa-

ble on iTunes (iOS) and Stitcher (Android) as well as on Blubrry - [On the Air](#) | [Eclectic Tech](#)

Amateur Radio in the News

["St. Stephen's Episcopal School students make contact with space in unique, STEM-based programming"](#) / Community Impact Newspaper (Texas), October 3, 2022. -- Thanks to [ARISS](#) and the Brazos Valley Amateur Radio Club, an ARRL Affiliated Club.

["Boy Scouts use amateur radios for worldwide conversations"](#) / Murfreesboro Post (Tennessee), October 27, 2022. -- The Stones River Amateur Radio Club is an ARRL Affiliated Club.

["Free amateur radio program offered"](#) / Altoona Mirror (Pennsylvania), November 15, 2022. -- The Bedford County Amateur Radio Society is an ARRL Affiliated Club

["Santa Claus will once again be on Longmont's airwaves"](#) / LongmontLeader (Colorado), November 12, 2022. -- The Longmont Amateur Radio Club and the Northern Colorado Amateur Radio Club are ARRL Affiliated Clubs.

["Amateur radio-aided rescue highlights useful hobby"](#) / Buffalo Bulletin (Wyoming), November 17, 2022. -- The Buffalo Amateur Radio Klub is an ARRL Affiliated Club.

["Dodge County Amateur Radio Emergency Services receives ServeNebraska Award"](#) / Fremont Tribune (Nebraska), November 19, 2022. -- *Thanks to the Dodge County Amateur Radio Emergency Service®.*

["Amateur radio club joins county for emergency communications exercise"](#) / The Kerrville Daily Times (Texas), November 25, 2022. -- *The Hill Country Amateur Radio Club is an ARRL Affiliated Club.*

Announcements

The [Danish DX Group \(DDXG\)](#) will **celebrate its 50th year** with special event station [OZ50DDXG](#), on the air until December 31, 2022.

Ukraine Maintains Ham Radio Silence in State of Emergency

Radio amateurs in Ukraine appear to be diligently maintaining radio silence as the state of emergency declared there just prior to the Russian military invasion remains in effect. A February 24 decree from President Volodymyr Zelensky included "a ban on the operation amateur radio transmitters for personal and collective use." *No Change heard as of Oct 14, 2022, Editor.*

The Radio Society of Great Britain (RSGB) To Host The Transatlantic Centenary Tests

The Radio Society of Great Britain (RSGB) will host The Transatlantic Centenary Tests during December 2022. The international event celebrates the centenary of the transatlantic success of the RSGB in December 1922.

On December 24, 1922, the very first verified amateur radio signal from Europe was received in North America. The signal originated from the RSGB station (G)5WS at Wandsworth in South London, as part of the Third Transatlantic Tests.

Unlike the tests of the 1920s, which consisted of one-way communication, the December 2022 tests will encourage worldwide two-way communication with the United Kingdom and Crown Dependencies. There will be a series of awards available for making contacts with those who are activating special call signs.

For this centenary celebration, the RSGB has renewed five call signs, which they held in the 1920s:

- G5WS, from the 1922 tests -- "the first to get across"
 - G5AT, from the 1923 tests
 - G6XX, from the 1923 tests
 - G6ZZ, used for the first amateur tests on a moving railway train in 1924
- G3DR, Scottish Highlands Call -- GM3DR

These historic call signs will be activated by RSGB members and clubs, using G5WS, G5AT, G6XX, G6ZZ, G3DR (England), GM5WS (Scotland), GW5WS (Wales), GU5WS (Guernsey), GD5WS (Isle of Man), GJ5WS (Jersey), and GI5WS (Northern Ireland).

Full details of how to participate are available on the RSGB website at <https://rsgb.org/transatlantic-tests>.

Australian Radio Amateurs May Move to a Class Licensing Structure

Australia's radiocommunications regulator, the [Australian Communications and Media Authority \(ACMA\)](#), is proposing to move the country's radio amateurs to a class license, which is intended to simplify administration of the Amateur Radio Service.

Currently, Australia's radio amateurs are regulated under an apparatus license, with privileges and conditions set out in a Radiocommunications License Conditions Determination. Australian hams pay an annual license fee of A\$55.00 (US\$35.68), but under the proposed class license, annual license renewal payments would

end.

The ACMA reports that the current consultation follows extensive public feedback on the [review of the non-assigned licensing arrangements](#) conducted between February and April 2021. The review's principal objective was to identify the most appropriate licensing mechanism that would reduce regulatory burden and minimize costs for amateur radio operators, while preserving the operational utility for amateurs.

The ACMA says they will carefully consider responses received to the current consultation. As stated in the consultation paper, subject to the outcomes of the current consultation and the implementation of supporting operational and administrative arrangements, the ACMA intends to implement the proposed class-licensing arrangements on July 1, 2023.

[The Wireless Institute of Australia](#) (WIA) is the national member organization representing the interests of Australian radio amateurs and is a member of the International Amateur Radio Union (IARU). The WIA has a well-credentialed working group developing their response to the ACMA's proposals. The ACMA's deadline for receiving responses is November 29, 2022.

The WIA's working group intends to open a survey in early November to gauge the views of the Australian radio amateur community.

"As this is going to be a quantum step in the evolution of amateur licensing in Australia, such as we have not seen previously, the details need close and careful consideration," said working group leader Peter Young, VK3MV. Peter has been licensed since 1964 and has a background in maritime communications engineering. He is a former Regional Manager with the ACMA and, since retiring, held positions with the WIA as a Director on the WIA Board, and Director with IARU Region 3.

Thanks to Peter Young, VK3MV, Media Advisor Naazbano Schonberger, ACMA, and WIA for their help and contributions to this story.

ARDC is Looking for Volunteers for its Advisory Committees

Amateur Radio Digital Communications (ARDC) is looking for volunteers for its 2023 Grants Advisory Committee (GAC) and Technical Advisory Committee (TAC).

The GAC reviews proposals submitted by organizations seeking ARDC grants. The committee usually meets twice a month for at least an hour, with additional time spent reviewing proposals and email correspondence that happen between meetings. The estimated time commitment from a volunteer on this committee is about 2 - 5 hours per week.

The TAC advises ARDC's staff and Board on 44Net technology, architecture, and policy. The TAC usually meets once or twice a month for at least an hour. Additional time may be spent working on or attending meetings related to projects, such as refining 44Net use-cases and standards, developing a new 44Net portal, and developing a proposal for Points of Presence (PoPs).

If you're interested in joining either committee, please send a resume and brief cover letter to contact@ardc.net by November 12, 2022.

For more information on the GAC, go to www.ampr.org/now-accepting-applications-for-grants-advisory-committee. For more information on the TAC, go to www.ampr.org/now-accepting-applications-for-the-2023-technical-advisory-committee

Hurricanes Lisa and Martin Kept Amateur Radio Operators Busy

Amateur radio operators were closely monitoring hurricane and weather nets, as two tropical storms in the eastern and southwest Atlantic were upgraded to hurricane status late Wednesday, November 2, 2022.

Hurricane Lisa made landfall late Wednesday in the Central American nation of Belize, near Belize City and the town of Dangriga, with 60 MPH winds and heavy rain. The hurricane has now been downgraded to a tropical storm, but a state of emergency has been issued and remains in effect.

Meanwhile, Hurricane Martin, in the eastern Atlantic, has also been downgraded to a tropical storm. The National Hurricane Center (NHC) is predicting that Martin will become a large and powerful post-tropical cyclone by late Thursday, November 3, 2022.

[The Hurricane Watch Net](#) (HWN) was activated late Wednesday morning on 14.325.00 MHz, and later on 7.268.00 MHz. The [VoIP Hurricane Net](#) was also activated, and as of early Thursday morning, both nets are in standby mode.

Amateur radio operators will continue to monitor the hurricane and weather nets to be ready if help is needed.

Dayton Hamvention Announces Theme for 2023

Dayton Hamvention® 2023 is just over 6 months away, and next year's Hamvention team has selected "Innovation!" as the event theme.

The team reports that, in just one word, the theme encompasses the world of amateur radio today. "There are so many exciting 'Innovations!' worldwide in amateur radio. We want to capture the spirit, and we expect to see many of these throughout the coming year and presented at [Hamvention 2023]," said Hamvention 2023 spokesperson Michael Kalter, W8CI.

Dayton Hamvention is the largest annual amateur radio gathering in the US, and among the largest in the world. With nearly 700 volunteers, next year's event boasts more than 500 indoor exhibits and more than 2,500 outdoor exhibits. They will showcase the latest in amateur radio equipment, technology, and computer software

and hardware, along with hard-to-find radio and computer accessories and equipment.

In a message to the 2022 exhibitors, Inside Exhibits Chairman Mike Berger, WD8OMX, announced on November 14 that the Hamvention online vendor portal is open to accept credit card orders for the 2023 show. There will be no price increase for vendor booths, and early bird pricing is available through March 15, 2023. Inside Exhibit vendors who had booths for the 2022 show will have until March 15 to pay for their booths in full. All booths not paid by March 15 will be made available to the public at the full rate.

ARRL is planning its large exhibit area and overall participation for the event. Hamvention is an [ARRL-sanctioned event](#).

Hamvention 2023 runs from May 19 - 21 at the Greene County Fairgrounds in Xenia, Ohio. Tickets are on sale now, and can be purchased at <https://hamvention.org/purchase-tickets>.

More information about [Hamvention 2023](#) is available on their website.

Eastern Massachusetts Section to Welcome New Section Manager; Incumbent Section Managers were Reelected

Jon McCombie, N1ILZ, will become Section Manager (SM) of the ARRL Eastern Massachusetts Section on January 1, 2023. McCombie, of Eastham, was the only nominee to submit a petition to run for office when the nomination period closed in early September. As the sole nominee, he has been declared elected.

This past year, McCombie has been Assistant SM to Tom Walsh, K1TW, who has been the SM of the Eastern Massachusetts Section for the last 8 years. Walsh, of Bedford, decided not to run for a fifth 2-year term of office.

There were no balloted elections during this fall season's SM election cycle. The following incum-

bent SMS ran unopposed, and they were declared reelected, beginning their new 2-year terms of office on January 1: Cecil Higgins, AC0HA (Missouri); Matt Anderson, KA0BOJ (Nebraska); Jim Mezey, W2KFV (New York City-Long Island); Rocco Conte, WU2M (Northern New York); Marc Tarplee, N4UFP (South Carolina); Tom Preiser, N2XW (Southern New Jersey); Michael Douglas, W4MDD (West Central Florida), and Joe Shupienis, W3BC (Western Pennsylvania).

Thanks to ARRL Field Organization Supervisor Steve Ewald, WV1X, for information contained in this story.

CW Operators' Club Accepting Nominations for Advancing the Art of CW Award

The CW Operators' Club (CWops) is now accepting nominations for the 2023 Advancing the Art of CW Award. This award recognizes individuals, groups, or organizations that have made the greatest contribution(s) toward advancing the art or practice of radio communications by Morse code.

Award candidates must be one or more of the following: authors of publications related to CW; CW recruiters, trainers, mentors, coaches, or instructors; public advocates of CW; organizers of CW activities; designers and inventors who advance the art or practice of CW, and other contributors to the art or practice of CW.

The award is not limited to amateur radio operators or their organizations, and nominations may be made by anyone, not just CWops members.

Nominations must be emailed to awards@cwops.org and secretary@cwops.org by March 10, 2023. Those submitting nominations will receive an email confirmation acknowledging receipt. Nominations must include: a detailed explanation supporting nominee qualifications according to the above criteria; nominee(s) name(s), call sign(s) if applicable,

and contact information, including their postal address(es), email address(es), and telephone number(s); as well as the name, telephone number, email address, and call sign (if applicable) of the person submitting the nomination(s).

The winners will be announced and presented with a plaque at Dayton Hamvention® 2023. If a recipient is not present, their plaque will be sent to them.

Information about past recipients, dating back to 2016, can be found at <https://cwops.org/cwops-award-winners>. For more information about the award criteria, visit <https://cwops.org/the-cwops-award-for-advancing-the-art-of-cw>.

The Federal Emergency Management Agency (FEMA) Emergency Management Institute (EMI) has released a new online study course and exam, titled, [Preparing the Nation for Space Weather Events](#). The course identifier is IS-66. ARRL Director of Emergency Management Josh Johnston, KE5MHV, took the course and passed the exam. "This course provides some interesting insight into the federal government's role and response to space-weather events," Johnston said. He went on to say that the course "explains the levels of response the government uses in regard to [these] events. [It] would be a good training course for any ham to gain a better understanding of how space weather affects communications here on Earth." Johnston deemed the course useful and shared that it only takes about 2 hours to complete online. A FEMA student ID is required, and is free from the EMI website. -- *Thanks to ARES Letter Editor Rick Palm, K1CE, for the information contained in this story.*

2022 ARRL Board of Directors Election Results

ARRL Southeastern Division Director Mickey Baker, N4MB, of Palm Beach Gardens, Florida, overcame challengers for his position in the 2023 - 2025 election cycle. Ballots counted on November 18 showed Baker (2,785 votes) defeating challengers Vice Director James Schilling, KG4JSZ (1,000 votes), and John Willis, KB4DU (673 votes).



Mickey Baker, N4MB, of Palm Beach Gardens, Florida, was re-elected as ARRL Southeastern Division Director for a second term that begins January 1, 2023.

For the position of Vice Director, Jeff Beals, WA4AW (1,516 votes), of Loxahatchee, Florida, defeated challengers Andrew Milluzzi, KK4LWR (1,287 votes); Neal Sulmeyer, K4EA (859 votes), and Joseph Tiritilli, N4ZUW (763 votes).

Baker and Beals have been declared elected for terms beginning January 1, 2023. Baker is finishing his first term as an ARRL Director. He currently serves on the Administration and Finance Committee, and Logbook of The World Committee.

Read the complete [ARRL News](#) story.

SKYWARN Recognition Day Set for December 3, 2022

The annual [SKYWARN](#)™ Recognition Day (SRD) on-the-air activity will take place Saturday, December 3, 2022, from 0000 to 2400 UTC. For US time zones, activity begins on the evening of Friday, December 2, 2022.

SKYWARN Recognition Day was developed in 1999 by the National Weather Service (NWS) and [ARRL](#). The National Association for Amateur Radio® to honor the contributions that SKY-

WARN volunteers make to the NWS mission -- the protection of life and property during threatening weather. During the SKYWARN special event, hams will operate from several NWS offices, as well as from their mobile, home, and club stations. "The relationship between amateur radio operators and the NWS is extremely important for relaying information during storms of any type," said ARRL Director of Emergency Management Josh Johnston, KE5MHV. "SKYWARN is a perfect example of the value of hams working together with government partners during times of disaster."

The SKYWARN Storm Spotter Program has been a mechanism used by the NWS for years to educate people on what to watch for during weather events and to provide a source for information to the NWS offices. Program courses provide information on reportable criteria for cloud formations, and even what to look for during the formation of supercells that may cause tornadoes or other potentially dangerous weather events.

For information about SKYWARN spotter courses, which are available to anyone around the country or online, visit <https://www.weather.gov/skywarn/>.

If you would like more information on becoming an amateur radio operator, go to <http://arrl.org/getting-licensed>. ARRL also offers a book, [Storm Spotting and Amateur Radio](#), that is available from ARRL and its publication dealers.

Individuals and NWS office amateur radio stations who are planning on operating for 2022 SKYWARN Recognition Day should register to participate. All amateur radio stations and SKYWARN spotters that register will receive an SRD number to their email address once registered. Information about participating, registration, and a Spotter Recognition Map is available at <https://www.weather.gov/crh/skywarnrecognition>.

In-person amateur radio operations will be determined by each local National Weather Service

Forecast Office. Amateur radio operators must make all necessary inquiries with the appropriate NWS staff at your respective National Weather Forecast Office ahead of SRD.

Look for station WX1AW, operated by ARRL Emergency Management Assistant Ken Bailey, K1FUG, during SRD. WX1AW will be active on 40 thru 10 meters using SSB and FT8 Modes and will monitor local VHF and UHF repeaters. Contacts will be uploaded to LoTW after the event. QSL via the station license address with a SASE (self-addressed-stamped-envelope).

More information is available at www.arrl.org/skywarn-recognition-day.

Dr. Ulrich Rohde, N1UL, to Be Inducted to the Indian National Academy of Engineering

The Indian National Academy of Engineering (INAE) will induct Dr. Ulrich Rohde, N1UL, as a fellow during ceremonies in mid-December. Dr. Rohde is only the third foreign fellow elected by the INAE, preceded by Dr. Jeffrey Wineland, who won a Nobel Prize in Physics, and Dr. Philip H. Knight.

In the formal announcement issued November 19, 2022, the INAE thanked Dr. Rohde for "outstanding contributions to engineering and also your dynamic leadership in engineering domain, which have immensely contributed for the faster development of the country."

The INAE was founded in 1987 and describes itself as including "India's most distinguished engineers, engineer-scientists, and technologists covering the entire spectrum of engineering disciplines."



Dr. Ulrich Rohde, N1UL.

Dr. Rohde has been an avid amateur radio operator holding several licenses in the United States and Germany. He has been

licensed since 1956 and involved mostly in technology and systems. In 2015, he won first place in the ARRL International DX Contest in the Northern New Jersey Section. He also operates N1UL/MM on his yacht, the *Dragonfly*, and is Trustee of the Marco Island Radio Club, K5MI.

"It is great to see Ulrich get this award," said Ed Hare, W1RFI, ARRL Laboratory Manager. "His contributions to technology have clearly been global in scope and even though his accomplishments have clearly been professional, amateur radio has also played a role in his being a world-class engineer. The ARRL Lab has appreciated his help and support over decades of time, and we join in offering our congratulations for another important achievement."

[ARRL The National Association for Amateur Radio®](#) recognized Dr. Rohde as the 2022 recipient of the Institute of Electrical and Electronics Engineers (IEEE) Photonics Society Engineering Achievement Award. The award is for outstanding engineering achievement in the field of optoelectronic signal generation and optical measurement equipment for next-generation intelligent optical networks. Dr. Rohde is an ARRL Maxim Society and Life Member.

Dodge County Amateur Radio Emergency Service Receives ServeNebraska Award

The Dodge County Amateur Radio Emergency Service® (ARES®) has received the 2022 Disaster Volunteer Award at the ServeNebraska Step Forward Awards Luncheon on November 4, 2022.

Presented by Nebraska First Lady Susanne Shore, the award recognizes Dodge County ARES for a

critical role in responding to the 2019 flooding in Fremont, Nebraska, and the surrounding areas. Dodge County ARES took significant steps to ensure that the Fremont community is always prepared. Amateur radio operator Steve Narans, WB0VNF, was cited for his role in retrofitting a county communications trailer for setup and use by first responders.

The group participated in a full-scale disaster drill with the Nebraska Army National Guard, Fremont Police, and Fremont Fire Department to test their skills and demonstrate how their services fit in among other disaster response efforts. During severe weather, they monitor weather conditions and report to the National Weather Service for its use in issuing severe weather warnings for Dodge County.

The group was nominated for the award by Dodge County Emergency Manager Tom Smith. Selection for the award was made by



Presenting the 2022 Disaster Volunteer Award is Nebraska First Lady Susanne Stone, Steve Narans, WB0VNF, Wesley Payne, KE0WHA, and Wes Chrisman, KD0PGV. [Dave Theophilus, W0NRW, photo]

Nebraska Governor Pete Ricketts.

The ServeNebraska Step Forward Awards recognize exemplary volunteers across the state for their time and service aimed at making their communities better. The awards are the most prestigious awards given for volunteerism in the state of Nebraska. Dodge County ARES was among eleven 2022 honorees.

For more information about the ARRL Amateur Radio Emergency Service® (ARES®), visit <http://www.arrl.org/ares>.

Support Young Hams on #GivingTuesday

#GivingTuesday is November 29, 2022 - a growing annual movement where individuals and organizations, like [ARRL](http://www.arrl.org), come together to unleash the power of radical generosity. This year, ARRL's theme for #GivingTuesday is **young hams**. From now to #GivingTuesday, ARRL wants to raise \$25,000 to help support and expand its programs and initiatives for young radio amateurs. Donate to ARRL now at www.arrl.org/give.

Watch and share the video: <https://youtu.be/ns6VR8h-8T8>

"The next generation of radio amateurs is already here," says ARRL staff member Bob Inderbitzen, NQ1R, who co-advises the ARRL Collegiate Amateur Radio Program. "There is a vibrant, well-networked community of students and campus radio clubs at colleges and universities throughout the nation. School teachers and local radio clubs work together to bring amateur radio into classrooms. Youth programs, including Amateur Radio on the International Space Station (ARISS) and outreach to scouts bring together our unique partnerships to introduce ham radio to more kids."

#GivingTuesday donations will help fund ARRL programs and services not covered by membership fees alone. Gifts will help subsidize ARRL Student Membership and ARRL Youth Licensing Grants, as well as resources and programs that

attract and keep young hams active, involved, and engaged in amateur radio.

A short video on ARRL's [YouTube](#) channel includes young hams describing why they "love ham radio." [Read more](#) about ARRL's ongoing work to support young hams, and give now at www.arrl.org/give.

Quarter Century Wireless Association to Celebrate 75 Years

The [Quarter Century Wireless Association](#) (QCWA) will celebrate its 75th anniversary on December 5, 2022.

Founded in 1947, QCWA's mission includes promoting "friendship and cooperation among Amateur Radio (Wireless) operators who were licensed as such at least a quarter of a century ago."

Today, QCWA has 230 chapters in the US. During the organization's 75 years, it has had nearly 40,000 members. The Cleveland, Ohio, chapter was the first chapter chartered in 1951, and now has over 100 members.



To celebrate its 75th anniversary, the QCWA Special Event Station, W2MM, will operate from 0001 UTC December 3 to 2359 UTC December 10, 2022. Only QCWA members in the US and its territories will have an opportunity to activate W2MM for this event. More information is available at <https://qcwa.org/w2mm-special-event.htm>.

QCWA is also hosting the members-only Worked 75/75 Members Contest from December 5, 2022, through February 18, 2023. The contest encourages QCWA members to contact a minimum of 75 QCWA members during

the contest period. All contest entrants will receive a special certificate. Additional information is available at <https://qcwa.org/1-worked-75-75-members-contest.htm>.

Youth/Youngsters on the Air Month-Long Event Begins December 1

On December 1, 2022, YOTA begins a month-long, special event to celebrate young amateur radio operators -- [YOTA Month 2022](#). YOTA is Youth or Youngsters



on the Air. Amateur radio operators aged 25 and younger will be on all bands using all modes throughout the month to make contacts around the world. In 2021, YOTA participants worldwide made 119,516 contacts, surpassing their goal of 100,000 contacts.

In the United States, the call signs for the event will be [K8Y, K8O, K8T, and K8A](#). Argentina will be active as LR1YOTA, Canada as VC3YOTA and VB7YOTA, El Salvador as YS1YOTA, and Honduras as HQ2YOTA. Amateur radio operators are encouraged to listen for and contact these stations, as well as all call signs ending in the letters "YOTA" across the globe.

In addition to the month-long celebration, on December 30 from 1200 to 2359 UTC, round three of the [YOTA Contest](#) will be active.

Various YOTA activities and events are organized throughout the world. The International Amateur Radio Union (IARU) Youth in Amateur Radio web page includes additional information and links at <https://www.iaru.org/on-the-air/youth-in-amateur-radio>.

Nova Scotia Students Contact As-

Astronaut Via Ham Radio

Students at Five Bridges Junior High School in Stillwater Lake, Nova Scotia, Canada, finally had an opportunity to talk with an astronaut onboard the International Space Station (ISS) via ham radio.

On Wednesday, November 23, 2022, the students were able to talk with Astronaut Josh Cassada, KI5CRH, for about 11 minutes as the ISS passed over northern Europe.



The students were anxious to ask questions ranging from curiosities about the astronauts' work schedules to concerns about radiation in outer space. Astronaut Cassada was asked about his favorite part of training for his ISS mission, and he replied, "All of it!"

The contact was made possible with amateur radio volunteers at the Amateur Radio on the International Space Station (ARISS) ground station in Casale Monferrato, Italy, using the call sign IK1SLD, and was the 1,495 contact made since the ARISS program began.

In the US, [ARISS](#) includes support from [ARRL](#), AMSAT, NASA, NASA's Space Communication and Navigation (SCaN) organization and the Center for the Advancement of Science in Space (CASIS).

Amateur Radio Club Provides Communications Support for Thanksgiving Day Race

The BEARS of Manchester Amateur Radio Club in Manchester, Connecticut, spent Thanksgiving Day providing amateur radio communications support for the 86th Manchester Road Race.

The race, a 4.748-mile course that begins and ends on Main Street in downtown Manchester, has been a Thanksgiving Day tradition since

1927. This is the 30th consecutive year the BEARS of Manchester Amateur Radio Club has provided communications support, with more than 10,000 runners participating and over 30,000 spectators lining the course.

Radio operators began arriving at 6:00 AM on Thanksgiving morning. Fifty-five operators staffed 39 positions around the course and were stationed every quarter mile to provide safety communications and report the lead male and female runners to the public address announcer.

Shadow operators helped 10 race officials stay in communications. Operators also started and ran four clocks around the course to help pace runners, and a station operated in the public safety Emergency Operations Center (EOC) to relay safety-related information to representatives of various agencies. Ham radio operators also provided communication for a shuttle bus operation that brought runners and spectators from a remote parking area to Main Street and then returned them at the end of the race. Check-in and check-out were accomplished through a net control station to maintain accountability.

Communication for the event was made on six repeater and simplex frequencies, and three cross-band repeaters were used for signal quality to avoid interference.

The BEARS of Manchester Amateur Radio Club is an ARRL Affiliated Club.

Thanks to Phil Crombie, Jr., K1XFC, Race Communications Coordinator, for providing information for this story.

Dr. Kristina Collins, KD8OXT, earned her PhD in Electrical Engineering from Case Western Reserve University on November 18, 2022. Dr. Collins' thesis, *Development of a Low-Cost Meta-Instrument for Distributed Observations of Ionospheric Variability*, focuses on the development of the HamSCI Grape Personal Space Weather Station Network. Ham Radio Science Citizen Investigation (HamSCI) serves

as a means for fostering collaborations between professional researchers and amateur radio operators. Dr. Collins currently serves on the HamSCI advisory board, leads the HamSCI Eclipse and Frequency Measurement Festivals project and [WWV/H Scientific Modulation](#) team, and served as chair of the local organizing committee for the 2019 HamSCI Workshop. She has been interviewed on [ARRL's Eclectic Tech podcast](#) and has peer-reviewed papers published in the American Geophysical Union's *Eos* magazine and the *IEEE Geoscience and Remote Sensing Letters*. She's excited to be joining the [Space Science Institute](#) in the spring of 2023 as a postdoctoral research fellow through the National Science Foundation Office of Polar Programs. Dr. Collins was first licensed in 2010 and now holds an Amateur Extra-class license. --*Thanks to HamSCI for information contained in this story.*

In Brief...

Through the generous contributions of donors, ARRL exceeded our #GivingTuesday goal, raising over \$25,000. This support will extend ARRL's reach to grow and encourage our community of young radio amateurs. Giving Tuesday was November 29, 2022, and is a growing annual movement encouraging individuals and organizations, like ARRL, to come together to unleash the power of radical generosity. Many ARRL programs and services are not covered by membership fees alone. Contributions have a tremendous impact on ARRL's ability to promote and protect amateur radio and better serve its members. For more information about making a donation to ARRL, visit <https://www.arrl.org/donate>.

The Japan Aerospace Exploration Agency (JAXA) Ham Radio Club is reporting that project OMOTENASHI, an amateur radio mission to the moon, is lost and not operating. Controllers were not able to receive radio communication from OMOTENASHI as of November 21, 2022. OMOTENASHI, technically known as Outstanding MOon Exploration TEchnologies demonstrated by NAno Semi-Hard Impactor, was a small two-part spacecraft

onboard NASA's Artemis I mission. Launched on November 16, 2022, the payload contained an orbiting module and a surface probe. After landing on the surface of the moon, it was going to transmit a beacon in the amateur 70-centimeter band, UHF 437.41 MHz, while the orbiting module transmitted digital telemetry on UHF 437.41 MHz. Engineers will investigate the cause of the incident and proceed with future operation plans while consulting with mission managers. JAXA Ham Radio Club reports, "We were very encouraged by the warm support we received as a team. It's such a shame that it can't live up to expectations. Although we were not able to land on the moon, the opportunity to travel beyond the moon is valuable, so we would like to continue working on recovery and realize some of our mission." Amateur radio operators can continue to listen for the orbiting module downlink using the following information:

Frequency: 437.31 MHz

Antenna: SRR antenna

Polarization: Linear

Modulation: Beacon, PSK31 Sync Word C1 (ASCII code)

Power: 30 dBm

Project updates are periodically posted at <https://www.isas.jaxa.jp/home/omotenashi/JHRCweb/jhrc.html>.

Thanks to AMSAT, the JAXA Ham Radio Club, and [paralink.com](#) for information contained in this story.

More Announcements

W1AW, the Hiram Percy Maxim Memorial Station located at ARRL Headquarters in Newington, Connecticut, is fulfilling QSL card requests with a commemorative card celebrating the Amateur Radio Transatlantic Communications Centennial. The special card will be issued for all W1AW QSL card requests for contacts made with the station from December 11, 2021, to December 31, 2022. The historic transatlantic tests of 100 years ago contributed to the dawn of international amateur radio communications. US amateurs contacting [W1AW](#) who would like a QSL card should send their card directly to the station with a SASE (Self-Addressed Stamped Envelope). International stations may confirm receipt of transmissions directly to W1AW with one IRC or via the W1 Incoming QSL Bureau.

ARRL has introduced the third edition of *Get On the Air with HF Digital*, by Steve Ford, WB8IMY. The book, written in an easy-to-understand style, covers how to set up and operate your own HF digital station. Ford includes details for making contacts using 11 different digital modes, including the PACTOR system, the weak-signal *WSJT-X* modes, *VARA*, and *JS8Call*. Join the millions of amateur radio operators worldwide studying propagation with WSPR, contesting with RTTY, and ragchewing with *JS8Call*. [Order your copy](#) from ARRL and ARRL publication dealers.

ARRL Northwestern Division Director Mike Ritz, W7VO, presented the 2021 ARRL Technical Innovation Award to Steve Haynal, KF7O, creator of the Hermes-Lite software-defined radio (SDR). "This long-overdue presentation was made during the October 27, 2022, meeting of the [Willamette Valley DX Club](#)," said Ritz. The ARRL Board of Directors bestowed the 2021 ARRL Technical Innovation Award to Haynal during its September 2021 meeting. Haynal was cited

as the instrumental and driving force behind the Hermes-Lite 5 W HF SDR transceiver being a fully open-source hardware and software project. More information about [Hermes-Lite](#) is available on their website.

Amateur radio operators who like to track balloons now have multiple targets. Earlier this week, three pico balloons were launched from Neumayer Station III in Antarctica, a German Antarctic research station of the Alfred-Wegener-Institut. Todd J. McKinney, KN4TPG, from the University of Alabama in Huntsville, is at the facility and will be launching a series of 20- and 10-meter Weak Signal Propagation Reporter (WSPR) balloons. Look for them on <https://aprs.fi> and <https://amateur.sondehub.org> under the call signs: K4UAH-1, -2, -3, -4, -5, -6, and -7, as well as W5KUB-114 and -115. Actual WSPR call signs on 20 meters are: KN4TPG, KW5GP, KM4LVC, WB8ELK, KM4YHI, KM4ZIA, and KD9UQB. On 10 meters, the WSPR call sign will be WB4VHF. Amateur radio operators with WSPR stations that have directional antennas, or Beverage-style antennas, are needed to monitor the 20-meter WSPR band and turn their antennas toward Antarctica. KN4TPG and KW5GP are approaching McMurdo Station to the south of Australia and New Zealand.

Thanksgiving on the Beach! Chip Margelli, K7JA, reports that he'll be on the air with friends from Bolsa Chica State Beach in Orange County, California, on Thursday, November 24, from 1900 UTC until late afternoon, Pacific Time. "The Thanksgiving on the Beach tradition goes back many years for us, and we always bring a rig and antennas along so as to share our 75-degree weather with the rest of the (jealous) nation," says Margelli. Look for Chip Margelli, K7JA; Janet Margelli, KL7MF; Gordon West, WB6NOA, and Suzie West, N6GLF. They'll be on 10 meters, 28.410 MHz USB and 28.025 MHz CW, plus or minus QRM, using 100 W and a three-element Yagi.

ARRL Black Friday Deals All Weekend! Shop the ARRL online store for Black Friday deals,

including a [MYSTERY BOX](#). Each MYSTERY BOX (\$79.95 plus s/h) includes a commemorative, hardcover edition of the 100th edition *ARRL Handbook for Radio Amateurs: Handbook 100*. We've stuffed other bonus items into each MYSTERY BOX! Check out all of the ARRL Black Friday deals at <https://tinyurl.com/3fww5cte>.

**BARC Website, some Blog
page Titles**

[How to run a special-event
station](#)

[JOTA at Greeville, NC](#) with
BARC.

[VOA Site "C" Project](#) (Blog)

[Morserino 32 adventure](#)

[What to do when you see a
need... – Brightleaf Ama-
teur Radio Club
\(w4amc.com\)](#)

[CQ WW VHF Contest –
Brightleaf Amateur Radio
Club \(w4amc.com\)](#)

[Antenna Fun! – Brightleaf
Amateur Radio Club
\(w4amc.com\)](#)

[Field Day Report 6/27/2021
– Brightleaf Amateur Radio
Club \(w4amc.com\)](#)

Even more than this on the
website.

Feel free to view, comment and
add.

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

***** 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.

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*

WinLink Nets and Practice

Great Lakes Area Winlink Net Started

A new Great Lakes Winlink Net has been started 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 Pro-*

jects, 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 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

HF

Tar Heel Emergency Communications Net on 3923 kHz Nightly 1930.

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),

The have been Ten-Tec Legacy CW slow net and CW fast net discontinued.

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 or Buy:

Wanted: Looking for a vintage transmitter. A Johnson Valliant or Ranger or similar. Or a crystal controlled rig of the Adventurer or DX35 type. If you have one and can part with it, Give me a call. Glen W7GS, 252-975-1070 or at VOA in the day time 252-758-2171 Tuesday thru Saturday.

Antenna and Tower For Sale

Name: Robert K Lyon (Pat)

Email: pklyon@gmail.com

Message: Daughter of Paul Copeland, former amateur radio operator who died in 2011, owns an antenna and tower that she would like to sell. I am a family friend trying to help Elizabeth survive. If you know anyone interested in purchasing this equipment, please have them contact me at the above email.

Time: September 25, 2022 at 4:59 pm

Tower is on the ground ready for inspection.

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!

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/UISEntry/licManager/login.jsp](https://wireless2.fcc.gov/UISEntry/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

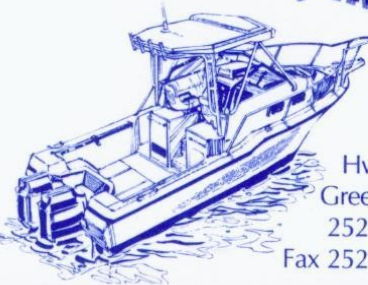
Certified Public Accountants

TERRY A. MONDAY, CPA, CVA, EA
K4ZYD

105-D East Victoria Ct.
 Greenville, NC 27858

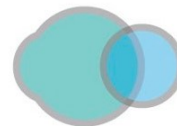
Phone (252) 321-6007
 Fax (252) 321-2991

MARK'S MARINE, INC.



Mark Langley
 Mike Langley
KD4MTT

Hwy. 33 East
 Greenville, NC
 252 758-3309
 Fax 252 758-1396



East Carolina Retina CONSULTANTS

Peter Van Houten, M.D.

2501a Stantonsburg Road
 Greenville, NC 27834

252-758-2402

<https://ECRetina.com>

CALENDAR OF EVENTS

Contest, Events and Meetings

2022 Starts Here: Just some of the MANY contests and Events

December 2 - 4 .. ARRL 160-Meter Contest (CW)

Dec 3 Skywarn Recognition Day

December 3 Wake-Up! QRP Sprint (CW)

December 3 - 4 .. PRO CW Contest (CW)

December 3 - 4 .. FT Roundup (digital)

December 5 K1USN Slow Speed Test (CW)

December 6 50 Worldwide Sideband Activity Contest (phone)

December 6 ARS Spartan Sprint (CW)

December 6 RTTYops Weeksprint (digital)

December 7 Phone Weekly Test (phone)

December 7 CWops Test (CWT) (CW)

December 7 VHF-UHF FT8 (digital)

December 7 CWops Test (CWT) (CW)

Dec 6-7 **Crossband activation of NEPM, the Battleship USS Iowa's original active call sign**

Dec 10-11 10 Meter ARRL

Dec 12 BARC Christmas Party Meeting On a Monday, 6pm

Dec 18 Rookie Roundup ARRL (CW)

Dec 27 **NO** BARC Board Meeting

Dec 30 **BARC 2023 DUES about Due.** Please Renew.

2023 Starts Here:

January **Club Dues are due**

Jan 1 Straight Key Night

Jan 7 Kid's Day (January)

Jan 7-8 RTTY Roundup

Jan 10 BARC Meeting **6:30pm, Great time to pay Dues if not done yet. NEW LOCATION!**

Jan 14 BARC Breakfast 9am ****New Event** Talk, eat, talk, you got the picture****

Jan 21-23 January VHF Contest

Jan 31 BARC Board Meeting, 7pm, **Chatter needs reports please, Zoom**

Feb 14 BARC Meeting 6:30pm and **Valentine's Day**

Feb 13-17 School Club Roundup

Feb 18 BARC Breakfast 9am

Feb 18-19 DX Contest (CW)

Feb 28 BARC Board Meeting 7pm, Reports please for Chatter

March 4-5 DX Contest (SSB)

March 14 BARC Meeting 6:30pm Zoom

March 18 BARC Breakfast 9am

March 28 BARC Board, 7pm, Zoom

April 11 BARC Meeting, 6:30pm

April 15 BARC Breakfast 9am
April 16 Rookie Roundup (SSB)
April 25 BARC Board 7pm Zoom
May No ARRL events
May 9 BARC Meeting 6:30pm
May 13 BARC Breakfast 9am
May 30 BARC Board 7pm Zoom, Reports please for Chatter
June 3-4 International Digital Contest
June 10-12 June VHF Contest
June 13 BARC Meeting 6:30pm
June 17 BARC Breakfast 9am
June 17 Kid's Day (June)
June 24-25 ARRL Field Day (always 4th full weekend)
June 27 BARC Board 7pm

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.



CALENDAR OF EVENTS

BARC Meetings are open to all.

BARC Regular Meeting - 2nd Tuesday @ 7:00 PM
Live and Zoom (Dec's on the Dec 12. No meeting on the 13)

BARC Board Meeting - Last Tuesday @ 7:00 PM
ZOOM

Upcoming ARRL Section, State, and Division Conventions and Hamfest:

2022:

Dec 9 - 10 | [Tampa Bay Hamfest](#), hosting the ARRL West Central Florida Section Convention, Plant City, Florida

Check the calendar of events on the ARRL website.

Find even more Special Events at www.arrl.org/special-event-stations

2023:

January 7 | [Ham Radio University](#), hosting the ARRL New York City-Long Island Section Convention, an Online Event

January 20 - 21 | [Southwest Florida Regional Hamfest](#), hosting the ARRL Southern Florida Section Convention, Fort Myers, Florida

January 27 - 28 | [Capital City Hamfest 2023](#), hosting the ARRL Mississippi State Convention, Jackson, Mississippi

January 28 | [Winterfest](#), hosting the ARRL Midwest Division Convention, Collinsville, Illinois

Feb. 10-12, Orlando Hamcation, Central Florida Fairgrounds and Expo Park near Orlando <https://www.hamcation.com/>.

February 25 | [HAM-CON](#), hosting the ARRL Vermont State Convention, Colchester, Vermont

May 19-21, Dayton Hamvention, Greene County Fairgrounds and Expo Center near Xenia Ohio, <https://hamvention.org/>

March 3 - 4 | [Greater Houston HamFest](#), hosting the ARRL Texas State Convention, Rosenberg, Texas

March 10-11, The Charlotte Hamfest, will held at the Cabarrus Arena & Events Center – Gold Hall, located near Concord, NC <https://charlottehamfest.org/>

April 8, RARSFEST, Jim Graham Building at the NC State Fairgrounds in West Raleigh, <https://www.rarsfest.org/>.

BARC 2 METER NET - MONDAY NIGHTS AT 8:00 PM - 147.09 W4GDF REPEATER - 131.8 Tone
Down East Hospital Net - 2nd Tuesday at noon - Greenville 444.725 MHz, 91.5 tone N4HAJ
BRIGHTLEAF AMATEUR RADIO CLUB STATIONS

W I V O A - W 4 A M C - W 4 U H S