

Ham Chatter



Volume 55 Issue 12

An Official BARC, W4AMC, Publication

January 2022

Editor, Mark, KG4GVJ

Email: hamchatter@w4amc.com

BARC General Meetings, Mask Required

Membership dues are expected this month.

The Christmas Party went well folks. Not as large as 2 years ago, only 12 people including spouses. Mike handed out the awards, glad we had someone old enough for the rocks to call "Sir". We were able to hear a few good stories and we had great tasting food and plenty of room.

Special Voting Concerning Voice Of America

Special Vote on if we are to proceed on the "Voice Of America Project" as a Club, to be done at the January 2022 meeting. Please attend in person or by Zoom. The more folks attending, the better for us all to know what we will do about the VOA Site C. This is a important topic concerning the Club.

[VOA-Site-C Project](#)

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

BARC Club Event

Feb 19-20, 2022 VOA Anniversary Event

BARC's Next Meeting in Person and Zoom Jan 11, 2022 at 7PM,

Location:

Oakwood School, in the Music Room. 4000 MacGregor Rd, Greenville, NC.

All members, families and guests are invited to attend.

Speaker:

Clark Macaulay, WU4B, "Little Pistol With Wires." Southeastern DX Club
North Georgia QRP Club.

Following Meeting is Feb 8, 2022.

Reminder, Dues are due January 1,

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

Board Meeting - Jan 25, 2022
The meeting will be on ZOOM at 7:00 PM. All members invited.

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 :

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/>

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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President's Corner, Peter, N4PVH



Dear Members:

Another year has passed and we look forward to a new year, HAPPY NEW YEAR to all! I hope this year will be a fabulous one for all the amateur radio enthusiasts and the country. The project that I would like to see accomplished by the end of the year is the renovations to VOA site C. We have used it for decades with the help of many BARC members that put in their own resources and time connecting these antennas and now the feed lines are gone again. We need to do this right so it stays permanently attached (if we can get the funds). Reading our Brightleaf Constitution, I ran across this, I will quote from our mission statement:

"The name of the club shall be the Brightleaf Amateur Radio Club (BARC). The purpose of the Club shall be to further cooperation within the community of Amateur Radio Operators by promoting radio knowledge, operating efficiency and the exchange of information between members. We do so by conducting activities and programs that advance the general interest in and the welfare of Amateur Radio in our community. The members enact this constitution as our governing law."

In order to advance the welfare of Amateur Radio in our community, I would like to proceed with creating an "Ad Hoc Committee" to oversee the Voice of America site C Project and give it direction. The committee would be made of 3 members from BARC and 2 from outside BARC to give it balanced interests. Their job would be to direct and manage the project. If we get the funds then we need to be ready to handle this. The funds would be in a separate BARC account and not affect Brightleaf at all. This would be managed by the treasurer and the president with direction from the VOA committee. There are numerous advantages to BARC and the membership to doing this with a committee inside BARC organization. The members get first chance at using the antennas and radios (hopefully multiple **Flex 6600M radios**), these can be automated and controlled remotely by any device with a browser (iPhone, iPad, PC, Mac, Android etc...). We have renewed the MOU with ECU but are looking to get a different and better arrangement for the long term (if we get the funds!). Keep an eye on the BARC web page for updates to the project <https://w4amc.com/VOA-site-C-Project/>. There is a new link to a video on how the automation of the "Super Station" would be done on that page. The Board of BARC as voted to support this idea at the last meeting.

The next BARC Membership meeting January 11th, 7pm at Oakwood School will have a short discus-

President's Corner

Continued

sion about forming the Ad Hoc Committee for VOA Project, a vote on it and then getting a list of volunteers for the committee. The presentation will be Clark Macaulay, WU4B, *"Little Pistol With Wires."* Southeastern DX Club North Georgia QRP Club.

I look forward to an amazing new year and all the excitement that we can have in amateur radio. This year will put us on the map in the amateur radio community and I will need all of your help to accomplish this task. Thanks!

73 Peter, N4PVH



QST de W1AW

Special Bulletin 18 ARLX018

From ARRL Headquarters

Newington CT December 9, 2021

To all radio amateurs

SB SPCL ARL ARLX018

ARLX018 ARRL Virginia Section Manager Joseph Palsa,
K3WRY (SK)

Virginia Section Manager Joe Palsa, K3WRY, of North Chesterfield, Virginia, died on December 7. An ARRL Life Member, he was 80.

Palsa was appointed Virginia Section Manager in February 2015, and had since won elections in his own right. A radio amateur for more than 50 years, he also served as the Virginia State Government Liaison.

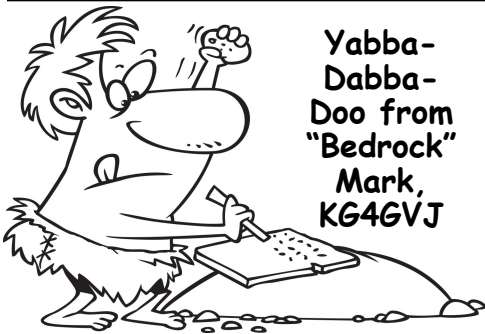
Palsa held a PhD in electronics technology and was a Life Member of the Institute of Electrical and Electronics Engineers (IEEE). He enjoyed researching and designing ham equipment and building projects, including some specialized military applications on electromagnetic compatibility (EMC), electromagnetic interference (EMI), and electromagnetic pulse (EMP). His professional experience included design, product development, and application engineering support, as well as positions in senior sales and marketing and senior executive management.

During 2014, he served as president of the Richmond Amateur Radio Club. In past years, he has held ARRL Field Organization positions as Official Bulletin Station (OBS), Official Observer (OO), and Official Emergency Station (OES).

Active in the Amateur Radio Emergency Service (ARES), he received two ARRL public service awards. Palsa enjoyed DXing, contesting, and public service communication.

NNNN

/EX



HAPPY NEW YEAR !

Opps, I hope that wasn't too loud after your celebrating.

Welcome to 2022 folks. It's been almost a year since I've taken the Editorship of the Ham Chatter. I have tried to neaten up my work a bit better starting today and I hope it will be easier reading. I hope I can keep it readable for us all.

I hope we will have a big turnout for this coming General meeting, on Zoom and in Person. We need to vote on if the Club wants to see about doing more work on the VOA or not. It's a big undertaking and need some more folks helping in taking care of it in one way or another. We all need to vote on if we will continue or to drop it. It's more than one person can do, so let's listen to Peter and vote on it. If we vote to continue, than let's try to help it along. If we work together, we can share in the results later.

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. 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). 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.

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.

Other Club's Zoom 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 the Red Cross under the following conditions set by the Red Cross: 1. Fully vaccinated persons - no mask required, no social distancing required. 2. Un-vaccinated persons must wear a mask and must socially distance.

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.

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 Teeter 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/>

BARC Board Meeting

December 28, 2021

In Attendance:

Bill Dawson WA4SLC, Beth Gonzalez KN4FZB, Byron Highland K4BMH, Dave Langley W4YDY, Jim Lowe AC4JL, Mark Raysin KG4GVJ, Gerald Seighman KN4CKL, Judy Taber W3JUU, Peter Van Houten N4PVH, Dave Wood W4EJ

Reports:

Treasurer/Jim: The club has \$79 in petty cash and just under \$3000 in the treasury. Jim is transitioning the accounts to Terry Monday, needs to contact Southern Bank. Terry has checkbooks and paperwork. 2022 budget totaling \$1465 has been approved.

Newsletter/Mark: The Ham Chatter is ready to go, has an updated list of contests

VP/Byron/Judy: Working on February meeting, possibly foxhunting speaker. The January meeting will be a Zoom meeting with Clark from Little Pistols with Wires. Byron working to set up a Winlink meeting, Judy has Jeremy Lindsey K2HJX from RARS discussing community service scheduled for March.

Business:

VOA Project:

Goal: Return VOA site C to operable condition, including refurbishing four rhombic and two log periodic antennas, and installing at least four operating stations which can be accessed remotely.

This can only be completed if we are awarded a grant, (which Peter has been working on tirelessly for the past couple of months) and come to an agreement with ECU who must grant access (Peter has also been working on this).

Peter will be speaking with several ham related media outlets in the near future.

This is a huge opportunity to promote ham radio, grow the hobby, provide community and emergency service, and offer STEM learning opportunities.

There are still many hurdles to overcome and plans to make. An ad hoc committee is being formed with club members, local representatives, and probably an ECU representative. Club members are encouraged to join the committee, or at least provide input to the other committee members.

Note that this is separate from the BARC budget and will not impact the club's financials.

Progress and details can be found on the blog at W4AMC.com and in the menu look for "VOA-Site-C-Project". This page will be updated as we go.

Submitted by Beth KN4FZB

Dec 3, 2021

Greetings from the High Country:

The weather up here is varying from what we expect in both early and late Fall (some days with highs up near 60, very low humidity levels and stiff breezes and some nights down in the 20's). Most of North Carolina is considered abnormally dry or in some drought conditions.

Charlotte weather indicates that the Queen City is 6.5 inches below the yearly average for December 1.

North Carolina is under a statewide burning ban and the threat of significant wildfires, like the one that has burned over a thousand acres of woodlands near Pilot Mountain, remains very high and not just in the mountains. Do not do any outdoor burning until we get significant rainfall.

Two useful sites that you might want to look at are posted by the NC Forest Service and the Drought Management Advisory Council:

https://www.ncforestservice.gov/fire_control/fc_rpm.asp

<https://www.ncdrought.org/>

SKYWARN RECOGNITION DAY

Each year on the first weekend in December, various National Weather Service offices around the country participate in SKYWARN recognition day. SKYWARN is a program developed in 1999 by the NWS and the American Radio Relay League to celebrate the contributions made by volunteer Storm Spotters make in furnishing NWS offices with information about severe weather in their areas. Many of the Storm Spotters are amateur radio operators.

SKYWARN Recognition day involves many NWS offices being on the air with volunteer amateur operators during the period of 0000-2400 hours UTC.

Contacts will be occurring on vhf, uhf as well as various hf bands.

Contacts involve a brief exchange, like "sunny", "windy" or "cold with the current temperature being....degrees".

Look for information posted by the various NWS offices serving North Carolina. They are seven and they are located in Wilmington, Wakefield VA, Raleigh, Newport NC, Morristown TN, Greenville-Spartanburg SC and Blacksburg VA. Each office has a webpage on how to complete a storm spotter course and registering with that office.

AUXCOMM TRAINING

The next opportunity to complete the DHS-CISA Auxiliary Communications (AUXCOMM) will be on January 14, 15, and 16 (Friday, Saturday and Sunday) in Lenoir NC at the Caldwell County EOC.

If you want to take the course, you need to have completed the current versions of the four FEMA ICS courses (100C, 200C, 700B, and 800D).

These courses are free and can be taken by going to

<https://training.fema.gov/nims/>

and registering. Each course can be completed in approximately 90 minutes, less if you have taken an earlier version. Certificates are issued on-line after completing the exam for each course.

There are two additional requirements for the Auxcomm course. First, you must hold a valid amateur radio license and, secondly, you need to be affiliated with a local public safety agency. Most typically, this latter requirement is met by having the local County Emergency Manager send an email to the course instructor indicating that the Auxcomm applicant is known to and involved with the local EM agency. Branch managers (Charlie Ingle, Virginia Enzor, and Monroe Hicks) can provide additional information.

Please begin working now on completing the on-line courses so you can register for the Auxcomm class when it is posted in TERMS in a few days.

ORLANDO HAMCATION

Registration for the Orlando Hamcation, which will be held on February 11-13 in the Central Florida Fairgrounds and Expo Park. Information is posted at <https://www.hamcation.com>. Prior to the Hamcation, ARRL will hold its National Convention on February 10 at the DoubleTree Hilton Orland at SeaWorld. Information about the ARRL National Convention and three training tracks offered by some of the top experts in ham radio will be offered during the morning and afternoon. Information can be found at www.arrl.org/arrl-expo. DHS-CISA will offer the Auxcomm course at the Orlando Emergency Operations Center on February 7-9 prior to the Orlando Hamcation and ARRL National Convention.

DAYTON HAMVENTION

The largest gathering of amateur radio enthusiasts in the United States is the Dayton Hamvention which will be held in 2022 on May 20-22 at the Green County Fairgrounds at Expo Center near Xenia Ohio. Information about tickets and the Hamvention can be found at <https://hamvention.org>. Past experience suggests that it would be wise to make hotel reservations now. It has often been necessary for those who wait until the last minute to look for a hotel to stay as far away as 50 miles from the Hamvention.

SANTA NET

The Santa Net operates every evening between Thanksgiving and Christmas on 3.916 Mhz beginning at 7:15 p.m CENTRAL time. Hams may want to invite their children, grandchildren and neighborhood kids to speak with Santa Claus over amateur radio.

BAOFENG UV5R BANNED IN GERMANY

A posting came up on November 26, 2021 which indicates that German telecommunications authorities have banned sales of the Baofeng UV-5R handheld radio (dual band, analog) due to its spurious emissions on frequencies other than the intended transmitting frequency. The spurious transmissions can cause interference to other users and services. At present, the radio can apparently be sold in the US but the potential interference problem remains.

The effect of spurious transmissions could be to degrade other radios (on other frequencies) when the Baofeng is transmitting which could be a problem in a disaster operation. Information can be found at https://www.youtube.com/watch?v=1ea3si7kp_M

TUBES, "THE ONES WHAT BRUNG US HERE"

Many newer hams probably have never thought much about vacuum tubes since solid state electronics (IC's and transistors) were already in use when they started out in radio. An interesting YouTube talks about how tube technology evolved from rectifier tubes and early amplifiers, all of which made possible the evolution of radio electronics up to the present. Take a look at

<https://www.youtube.com/watch?v=qwz7hAUTDIA>

and you will know more than you did an hour ago.

NC SECTION MANAGER ELECTION

In early January, you will receive a ballot from ARRL for the election of the NC Section Manager for a two year term that will begin on April 1. There will be at least two candidates seeking the post. The deadline for submitting nominating petitions to ARRL is 4 p.m. on December 10.

CLOSING COMMENT

Large-scale fire fighting operations in at least three locations across North Carolina have been on-going this week. Apparently, the Pilot Mountain fire started with an unauthorized and improperly extinguished camp-fire, leading to over 1000 acres of woodlands being burned. Another fire, near Marion, has burned for several days and destroyed over 460 acres of woods. A smaller fire, near where Wilkes, Caldwell and Watauga come together in the Sampson area, burned over 40 acres of woods.

We all take for granted that when trouble happens, 911, fire, sheriffs, police, ems and the utility workers as well as Red Cross will jump to and to quickly respond. All these responders are dedicated but would like to spend their evenings, holidays and days off with their families.

Please don't do anything, particularly involving fire, that calls them from home and disrupts their family time.

Marv, WA4NC
Boone

ARRL North Carolina Section

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

Dec 20, 2021

GREETINGS FROM THE HIGH COUNTRY

We had enough rain last week to allow the NC Forestry to lift the burning band throughout the state, including the mountains. Temps here have varied considerably with highs last week up in the 60's and this morning the low at my house was 17 degrees. Despite lower temperatures in the mountains there appears to be no likelihood of a White Christmas here but the chances seem better in Pittsburgh where I will visit my grandkids, their parents and other family members.

ARRL MATTERS

In Memoriam

It is with regret that I must announce the passing of Dr. Joe Palsa, K3WRY, who was the ARRL Section Manager for the Virginia Section. Joe passed away on December 7 and he had a distinguished career in amateur radio for more than a half century, was highly skilled and held a Ph.D. in Electronics Technology. If you knew Joe, it would be a nice gesture to drop a note of sympathy to his son, Bill Palsa, KK4WRY.

Volunteer Monitor Program Report

Riley Hollingsworth, K4ZDH, has posted the November 2021 report.

Advisory notices were sent to a several hams, urging them to come into compliance with FCC rules. Infractions noted included excessive bandwidth while using SSB voice, requests made to certain operators that they stop using repeaters to broadcast and to comply with station identification rules, spurious emissions caused by overdriven FT8 transmissions, and operating on frequencies not permitted with the class of license held. The monthly report can be viewed at <https://arrl.org/news/november-2021-volunteer-monitor-program-report>.

Winter Field Day is Coming Soon

I know there is a lot to get through during the Holiday Season, including Christmas festivities and New Year's celebrations but some club are already urging their members to check out their cold weather gear for Winter Field Day which will be held on January 29 and 30, 2022.

NC Section Manager Election

Two candidates (Challenger Tony Jones, N4ATJ, from Gaston County and Current Section Manager Marvin Hoffman, WA4NC from Watauga County) have qualified to run for Section Manager for a two year term beginning on April 1, 2022. Ballots will be mailed from ARRL HQ no later than January 3, 2022 and returned to ARRL by February 20. Ballot counting will occur on February 22.

TARHEEL EMERGENCY NET

Net Manager, Mike Fagan, AE4MF, has relocated with his family to Oklahoma. As a result, he has stepped down as Net Manager for the Tarheel Emergency Net. Mike did a great job as Net Manager, is a good operator and has a great signal whenever propagation is normal. Thank you, Mike, for your support of ham radio and the Tarheel Net.

Mike contacted a number of net control operators and recommended Scott Hunt, K4SEH, from Caldwell County to become Net Manager. Scott has already begun working on improvements to Net procedures which he will be announcing in the near future. Please extend every courtesy to Scott who became Net Manager effective December 15, 2021.

EmCOMM Matters

I spent the last several days in Charlotte as part of the instructor/mentor team that offered four CISA CommU courses (COML, COMT, IT Section Leader and Tactical Dispatcher) to 84 students. The Charlotte Disaster Comms School also offered persons who previously completed the Auxcomm course and have an open Position Task Book the opportunity to complete portions of their PTB's. Fourteen persons received credit for parts of the Auxcomm PTB.

It is worth noting that there are approximately 225 persons who have taken the Auxcomm course in North Carolina and presently 120 persons are working on their Task Books, moving forward towards official credentialing by North Carolina Emergency Management.

North Carolina's EmComm Unit is recognized across the country for the numbers of persons trained and the breadth of its COMMU training program. North Carolina Emergency Management is committed to building teams of credentialed COMMU personnel who are fully qualified to function during a disaster.

There is no time during an emergency to introduce yourself to EM or offer a resume. Relationship building with EM begins in these courses and continues with exercises. When bad things happen, EM turns to people who have built trust, shown the needed skills and understand where they fit in.

When it is game time, the team put on the field has to have practiced together and know how the various pieces fit together because they have worked together numerous times in exercises and incidents.

Western Branch AUXCOMM Coordinator Retires

Bob Rodgers, KC4TVO, has retired as Western Branch Coordinator for Auxcomm and ARES. Bob has done a great job in supporting EmComm. Many of you participated in one of the seven SHARES/Winlink courses that he offered in various locations in the Western Branch. Bob continues to handle SHARES station registration and operates a SHARES RMS on a 24/7/365 basis. Over the past several years, he recruited dozens of personnel to serve as ARES Emergency Coordinators and most of them have transitioned to Auxcomm duties supporting NCEM's Emergency Communications Unit.

I am happy to announce that Monroe Hicks, K4RQ, who served as Bob's Deputy has been appointed Western Branch Coordinator. His email is Monroe.hicks@gmail.com.

AUXCOMM COURSE IN CALDWELL COUNTY IN JANUARY

North Carolina Emergency Management has posted the Auxcomm course to be held in Caldwell County on January 14, 15 and 16. Information and registration is located in TERMS (<https://terms.ncem.gov>).

Please note the following prerequisites:

- a. Valid Amateur license
- b. Completion of the CURRENT versions of on-line FEMA courses (100c, 200c, 700b and 800d) which can be taken at <https://training.fema.gov/is/crslist.aspx>,
- c. Affiliation with a public safety agency which is confirmed by a statement from the local emergency manager or the head of an emergency response agency.

Each of the on-line courses takes less than 90 minutes to complete and a certificate of completion is generated after a final exam for the course. The deadline for applying and submitting the necessary documentation listed above is January 6.

Course participants who travel 50 miles from home will be reimbursed for lodging, meals and mileage in accordance with State Travel Policies.

Please contact (mkhoffman2006@gmail.com) if you have questions. Time

is short so please move on the prerequisites quickly.

DMR NEWS

The popularity of DMR continues unabated. There are over 3861 radio ID's issued in North Carolina and three DMR networks are operational in North Carolina, along with hundreds of hotspots that bring access to world-wide conversations that continue almost nonstop throughout the day and night. Because there are multiple devices using the same RadioID, there may be well over 4500 DMR radios in use in North Carolina by amateur radio operators.

Amateurs with DMR equipment are reminded that the High Country UHF Digital Net is held on the local talkgroup on 15 linked repeaters that are part of the PRN system. If you live within the coverage area of Roanoke, Wytheville, Fancy Gap, Boone, Sugartop, Wilkesboro, Lenoir, Spruce Pine, Crowders, Albemarle, Hendersonville, Sylva, Franklin or Cashiers PRN repeaters, we would be happy to hear you check it to the net on Tuesday. We plan to use this network (which can be activated anytime there is a need) to support ARES and Auxcomm in the Western third of North Carolina.

Beginning in January we will begin operation of a Western North Carolina Emergency Net to support state and local emergency management in Western North Carolina. Contact wa4nc@arrl.org for more infor-

mation. Feel free to check into the net on Tuesdays.

In Eastern North Carolina, the Eastern Healthcare Preparedness Coalition has developed a wide-area DMR network that supports EmComm. Information about the system which involves a network being built to support Auxcomm at various VIDANT hospitals and UNC-TV towers can be found at <https://www.ncres.org/>.

We are hoping to hearing from you, advising your ham call and the DMR repeater you are using or if you are using a hotspot to participate in DMR.

NOVEMBER SECTION TRAFFIC MANAGER REPORT

Dave Roy, W4DNA, has submitted his monthly report about the various traffic nets in North Carolina. Set out below is an abbreviated report due to the difficulty involved in formatting data in columns in the email system used by the ARRL. The full report, including individual operator reports and the public service honor roll report, can be viewed at <https://www.ncarrl.org/>. Thank you goes out to Dave and the traffic handlers for their support of ham radio.

W4DNA - NC Section Net Report - NOVEMBER 2021

NET	NMGR	QNI	LISTED	PASSED	TIME	SESSIONS	TFC %
SECTION NETS							
CN	KC4PGN	407	135	127	570	60	94.07%
CSN	KI4KZS 129	29	29	612	30		100.00%
NCEN	WK4WC	350	75	67	370	30	89.33%
NCMN	W3OJO	286	134	129	614	30	96.27%
THEN	AE4MF185			300	19		
LOCAL NETS							
CWTN	N4CNX404	88	88	597	30		100.00%
ENCTN	W4DNA	121	34	34	205	30	100.00%
PCTN	W4TTO	231	52	52	254	30	100.00%
TOTAL		2113	547	526	3522	259	96.16%

HAMFEST NEWS

The Charlotte Hamfest will be held at the Cabarrus Arena and Events Center on March 11 and 12, 2022. This hamfest is an undertaking of the Mecklenburg Amateur Radio Society and draws dealers and has a large indoor flea market. There will be forums and testing sessions during the hamfest. The address of the Event Center is I 4551 Old Airport Road, Concord, NC. Information can be found at <https://charlottehamfest.org/>. Hams from all parts of the state

attend this hamfest.

RARSFEST is back on! Word has been received that the Raleigh Amateur Radio Society will be holding the RARSFest on April 16, 2022 at the Jim Graham Building at the NC State Fairgrounds in Raleigh. Outgoing Roanoke Director Bud Hippisley, W2RU, approved the RARS request that RARSFest be designated the Roanoke Division Convention for 2022.

RARSFEST will be held the day before Easter. Dealers and flea market tables are set up inside the building. Testing sessions will be offered.

Information about SKYWARN will be available and you will have the opportunity to meet and talk with your ARRL Roanoke Division and NC Section officials. Please visit <https://www.rarsfest.org> for ticket

prices and info. Save the date!

CLOSING COMMENT

This has been a difficult year due to COVID but much that is good has occurred. I want to take time to thank the people who have made this year a success.

Thanks go to the dozens of clubs and hundreds of operators who participated in Field Day.

The Five County Ham Radio Enthusiasts which offered many VE Sessions while other clubs also helped expand the pool of licensed amateur operators did a great job.

Congratulations go to the hard working organizers of the Shelby Hamfest, JARSFEST in Benson, the WCARS hamfest in Waynesville and the Forsyth Club's hamfest in Winston-Salem.

EmComm personnel did a sterling job with actual incidents and training events. Thanks go out to Tom Brown, Charlie Ingle, Virginia Enzor, Monroe Hicks and Bob Rodgers who have done so much in terms of organizing and motivating EmComm operators.

The traffic handlers led by Section Traffic Manager Dave Roy train daily and stand ready to handle health and welfare traffic should the need arise. We are in the process of updating the list of Official Relay Stations and getting new appointment certificates issued.

The Section State Government Liaison team, Chuck deCourt and Max Hopper, worked with the General Assembly leadership and kept us informed about potential distracted driving legislation that will come up again next year and could affect ham radio.

Our Section Technical Coordinator Danny Hampton offered advice to numerous persons concerning interference issues and on getting new repeaters on the air.

The Affiliated Club Coordinator, Tim Slay, worked with club presidents and program chairpersons during the past year to keep clubs active and vital.

Section Youth Coordinator, Dave Price, worked with Scout groups and helped with the visits during Field Day.

Susan Langley Jones, WA4AKB, has kept the NCARRL webpage functioning, along with posting updates, and deserves our thanks.

So, as we close out this year, we can look forward to next year with a promise to continue doing what we are doing and seeking ways to make ham radio better, to get more people involved and to keep North Carolina on the map as being one of the best of the 71 ARRL Sections.

Finally, I spent time last week at the Charlotte Police and Fire Academy participating in a communications unit training effort involving over 100 people in advanced radio training. I could talk a long time about these COMMU team. They answer the 911, they keep the public safety systems working, they manage personnel in some very unpleasant situations and they are as professional as it gets. Even so, they still want to get even better at their jobs. And, they welcome properly trained amateur operators into the COMMU team. It has been great to be with them over the past several days.

Several times in previous newsletters I have written about the thousands of police, fire, EMS, rescue, 911 call takers and the military personnel who are out there, looking out for us. They are heroes and we owe so much to them for their willingness to serve.

As we celebrate in the Holiday season, draw your family close but remember those who will be on duty and away from the comforts of their homes while we enjoy our comforts and hobby.

Merry Christmas and Happy New Year.

See you in 2022.

Marv, WA4NC
Boone

ARRL North Carolina Section
Section Manager: Dr Marvin K Hoffman, WA4NC

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

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

Editor

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.

US Department of Homeland Security's AUXCOMM Course February 7-9, 2022 Orlando, Florida, precedes the ARRL National Convention hosted by HamCation -- The AUXCOMM class information can be found below. When asked how he enjoyed the course, Arc Thames, W4CPD, Assistant Northern Florida Section Emergency Coordinator said: "It was hands down one of the best emergency communications courses I've taken. It really tied together many of the other individual courses I had taken. The hands-on activities and the group exercise at the end were invaluable. If you're interested in emergency communications, this course is for you." Only 30 seats are available, so be sure to apply for the course as soon as possible.

Register now for the 2022 [ARRL National Convention Emergency Communications Training Track](#) -- Plan on attending the 2022 ARRL National Convention, set to take place at [Orlando HamCation®](#) on February 11 - 13. A day-long workshop on emergency communications is scheduled as one of the training tracks that will be offered as part of the National Convention program that will precede HamCation on Thursday, February 10. The training presentations will feature current protocols, techniques, and responsibilities for the modern volunteer radio operator serving partner public safety entities. The presenters are subject-matter experts. Topics to be covered include the ARRL Emergency Communicator Position Task Books, an overview of amateur radio communicator responses to disasters, basic voice traffic handling with hands-on voice traffic net/message transfer practice, using the ICS-213 form, Winlink's Amateur Radio Digital Open Protocol (ARDOP) and VARA protocols, and the Radio Mail Server (RMS) hybrid internet/HF radio gateway system. [Register for the National Convention Training Tracks](#).

DHS Cybersecurity and Infrastructure Security Agency (CISA) Auxiliary Communications (AUXCOMM) Training Course Planned for February

The DHS/CISA Auxiliary Communications Training Course will be conducted February 7-9, 2022, in cooperation with the 75th Orlando HamCation™ in Orlando, Florida (30 student maximum capacity). This class is designed for auxiliary communicators (AUXCOMM) and other communications groups who volunteer to provide backup radio communications support to public safety agencies. This typically includes volunteer amateur radio communicators from such organizations as SATERN, the Red Cross, REACT, and others. This class is free to anyone

who is accepted into the course. This course focuses on auxiliary communications interoperability, the relationship between the Communications Leader (COML) and AUXCOMM volunteers, emergency operations center (EOC) etiquette, on-the-air etiquette, Federal Communications Commission (FCC) rules and regulations, auxiliary communications training and planning, and emergency communications deployment. The course is intended to supplement and standardize a volunteer operator's experience and knowledge of emergency amateur radio communications in a public safety context.



DHS Auxcomm Course Graduates, Orlando, Florida, 2016.

Prerequisites for Attendance

Personal experience: A valid/signed FCC amateur radio license; Past experience in auxiliary emergency communications; An affiliation with a public safety agency (served agency); A desire to work with COMLs in a NIMS ICS environment. Must have completed the following online courses from the FEMA EMI website: IS-100, Introduction to the ICS; IS-200, ICS for Single Resources and Initial Incidents; IS-700, National Incident Management System (NIMS), an Introduction; IS-800, National Response Framework (NRF). How to Apply: Send an email with the below listed information to: TrainingRequest@commscollabcenter.com Subject Line: [Last Name] Application for HAMCATION AUXCOMM Course 2022. Text of email: Applicant's name; the name of the public safety agency you are, or will be, supporting; the public safety agency's email address; the agency's point of contact

name and their email and phone number. Attach completion certificates for all courses listed above. Applications will be considered incomplete if any of the prerequisite course completion certificates are missing from the email. All applications and other requested documents, must be received by close of business on Friday, January 28, 2022. The first 30 qualified applicants will be notified that they are registered once the appropriate information has been received. Selected individuals will be notified of the course location/schedule once their registration is approved. Questions regarding the course prerequisites should be directed to CISA by contacting John Peterson via email at AUXCOMM@cisa.dhs.gov

Spotlight: Lake Superior AuxComm Group Forms for Mutual Assistance

We as radio communicators have through our training and regular activity become familiar with other operators in neighboring communities, townships, counties, and even states and provinces. We knew who to call if we needed assistance in supporting an incident or event response and we were prepared to assist them if asked, the essence of a mutual assistance plan. Assistance and support come from those equipped and trained to provide it.

The potential for a wide-scale emergency/disaster warranting a greater regional response around the Great Lakes was an indication for a better organized, more efficient mutual assistance team approach when involved by an emergency management entity. In answer to this need, the *Lake Superior AuxComm Group* (LSAG) has been formed.

LSAG functions as a resource collective, coordinating organization of the region's auxiliary communication groups and personnel, equipment and group/operator capabilities. The database is updated and shared with emergency management entities by their local Emergency Coordinators.

Should an emergency manager in an incident-affected area need support from auxiliary communicators, the manager may contact the local LSAG member-entity and request assistance. The local group then works with the LSAG to garner and activate the appropriate level of mutual assistance needed from other LSAG members, AuxComm and ARES[®] groups in the region that includes Ontario, Minnesota, Wisconsin, and Michigan.

LSAG will promote and facilitate training in operator message handling via data and voice modes and evaluate/develop an emergency communications frequency/mode plan for the Lake Superior region. -- *Tim Hass, KD8ZYW, Emergency Coordinator, Alger County, Michigan; LSAG Board member*

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 Na-](#)

[tionwide 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 communication during a major emergency. Bob 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*

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 lives." saves

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 Learning Network Webinars

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.

More webinars are coming soon!

ARRL members may register for upcoming presentations and view previously recorded [Learning Network](#) webinars. ARRL-affiliated radio clubs may also use the recordings as presentations for club meetings, mentoring new and current hams, and discussing amateur radio topics.

The ARRL Learning Network schedule is subject to change.

ARRL Podcasts Schedule

On the Air podcast (Episode 24) features tips about how to improve the effective range of your handheld transceiver.

Eclectic Tech (Episode 48) of the *Eclectic Tech* podcast features a conversation about the technical aspects of the 1921 Transatlantic Tests with Clark Burgard, N1BCG. We also chat about on-air activities surrounding the upcoming anniversary.

(Episode 49) features a chat with Ward Silver, NOAX, about the new edition of his book, *Grounding and Bonding for the Radio Amateur*, and the general importance of station grounding.

On the Air podcast (Episode 24)

features some tips about how to improve the effective range of your handheld transceiver.

Eclectic Tech podcast (Episode 50) -- the final edition for 2021 -- features a discussion with Nelson Sollenberger, KA2C, about the filter he designed that allows two nearby stations to operate on the same band during Field Day and contests. Also featured is a brief explanation of the so-called POST beeps that many computers make, and what they mean.

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

Amateur Radio in the News

ARRL Public Information Officers, Coordinators, and many other member-volunteers help keep amateur radio and ARRL [in the news](#).

["Making Contact with the Past: Operating Radios on USS North Carolina"](#) SpectrumNews1, North Carolina (December 7, 2021)

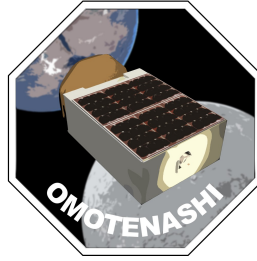
[RamSat taking photos while orbiting Earth](#) / Yahoo! (California) November 21, 2021

[What Ham Radio Can Teach Us About Power Efficiency](#) / *Clean-Technica*, November 17, 2021

[Alike, but Not Alike: Broadcast vs. Ham Radio](#) / *Radio World* (Washington, DC) November 7, 2021

Announcements

World's Smallest Moon Lander from Japan will Put Ham Radio Transmitter on the Moon



Japan's [OMOTENASHI](#), the world's smallest moon lander, will have an X-band and UHF communication system, although it will not carry an amateur band transponder. OMOTENASHI is a 6U CubeSat set for launch via a NASA SLS rocket as early as February 2022. It will have a mission period of from 4 to 5 days. The name is an acronym for Outstanding Moon Exploration Technologies demonstrated by Nano

Semi-Hard Impactor. Wataru Torii of the Japan Aerospace Exploration Agency (JAXA) Ham Radio Club, JQ1ZVI, said radio amateurs can play a role in gathering data from the spacecraft.

The spacecraft is made up of two separable components, both having independent communication systems -- an orbiting module and a surface probe. The orbiting module will take the surface probe to the moon. It will transmit beacon or digital telemetry data on UHF (437.31 MHz). The surface probe -- the moon lander -- will transmit digital telemetry or three-axis acceleration analog-wave with FM modulation on UHF (437.41 MHz). Transmitter power will be 1 W in both cases.

"If we succeed in receiving the UHF signal from the surface probe, we could know the acceleration data on the impact on the moon and the success of the landing sequence," Torii explained.

"We already have a station for uplink and downlink at Wakayama in Japan -- used as an EME [moonbounce] station. However, if the satellite is invisible from Japan, we cannot receive the downlink signal. So, we need a lot of help from ham radio stations worldwide."

The orbiting module beacon will transmit on

437.31 MHz using PSK31. The surface probe beacon will transmit on 437.41 MHz using FM, PSK31, and PCM-PSK/PM.

[Contact](#) Torii for more information.

Dayton Hamvention Expects to be Live Event in 2022

[Dayton Hamvention](#)[®] organizers are planning to mount an in-person show in 2022, the first following 2 years of COVID-related cancellations. The event is set for May 20 - 22 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio. Last January, Hamvention organizers from the sponsoring Dayton Amateur Radio Association ([DARA](#)) announced they were calling off the 2021 event after considerable planning was already under way. The Hamvention

Executive Committee cited lagging COVID-19 vaccine distribution in the US and the emergence of a more communicable form of the virus.

Southgate Amateur Radio News quoted Hamvention General Chairman Rick Allnut, WS8G, as saying that Hamvention committees "have been meeting, and volunteers are committed to making up for the time lost to pandemic cancellations." The Hamvention website is already accepting bookings from vendors and inside exhibitors, and individual visitors can already buy tickets, which Allnut said, "are all printed and ready to go."

Nominations for the 2022 Hamvention Awards opened on November 1. Hamvention seeks "the best of the best" nominees for its Technical Achievement, Special Achievement, Amateur of the Year, and Club of the Year awards. Nominations close on February 15, 2022. Submit nomination forms via [email](#) or USPS to Hamvention Awards Committee, Box 964, Dayton, OH 45401-0964. The 2022 Dayton Hamvention is an [ARRL-sanctioned event](#). Read [an expanded version](#).

ARDC Grants Will Expand Emergency Capabilities in Haiti and the US Virgin

Islands

Grants from Amateur Radio Digital Communications ([ARDC](#)) will benefit amateur radio emergency communication networks in Haiti and the US Virgin Islands (USVI).

The \$14,864 grant to the Haiti International Friendship Amateur Radio Club ([HIFARC](#)) will enable the club to set up a network of HF stations to provide emergency communications to remote areas cut off by the August 2021 earthquake. The 7.2-magnitude earthquake made evident the urgent need for better emergency communications. The earthquake completely cut off communications to some areas of the country, making emergency responders unable to get information on the extent of the damage caused and what supplies and equipment were needed. The lack of communication capability hindered the ability of responders to deal with the humanitarian crisis.

HIFARC, in coordination with the Radio Club d'Haiti, plans to set up an HF emergency communications network. Haitian amateurs have identified six potential stations, and HIFARC plans to provide the equipment and personnel to set them up. Grant funds will allow HIFARC to outfit each station with a small generator, an HF transceiver, a power supply, and a wire antenna.

Working closely with the Radio Club d'Haiti, HIFARC helps to train new hams and bolster the emergency communications network there.

The St. Croix Amateur Radio Club ([STXARC](#)) in the USVI will use its ARDC grant to augment the territory's repeater infrastructure, enabling the purchase of backup repeaters, improving repeater coverage, and training and equipping new hams.

When two Category 5 hurricanes -- Irma and Maria -- hit the USVI in 2017, hams volunteered to help. The two monster storms left the power grid and communication infrastructure in shambles, with 95% of St. Croix's electric utility poles and antenna structures dismantled. The USVI

government's primary land mobile radio (LMR) trunked radio system was essentially non-functional, and the Army National Guard couldn't be heard on any radio frequency for a week following the storms.

Territory amateur radio clubs sprang into action, employing skills learned during hundreds of hours of training exercises. St. Croix hams quickly established a daily HF net to support first responders. A single surviving repeater provided limited communication between islands.

The \$27,955 ARDC grant will allow the Virgin Islands Amateur Radio Group (VIARG) -- a group formed after the 2017 hurricanes -- to purchase backup repeaters, more resilient antennas that will also expand coverage, and training materials. Read [an expanded version](#).

Ham Radio University Going Virtual Again

With COVID-19 uncertainties precluding an in-person gathering for a second year, the 23rd annual Ham Radio University ([HRU](#)) educational conference will be held as a virtual event again this year, on Saturday, January 8, 1300 - 2000 UTC, as an online GoToWebinar videoconference.

Advance registration is required and begins on December 20.

HRU 2022 will be adding five forums this year, for a total of 19 presentations by experts in a broad range of amateur radio activities, including Amateur Radio Emergency Communications. Other topics are:

- Basics of HF Operating
- Ham Radio Contesting and DXing
- Communicating through Amateur Radio Earth Satellites
- Software-Defined Radios

- HF and VHF Digital Communications
- Parks on the Air
- SKYWARN
- Cables and Connectors

Using Raspberry Pi Computers in Amateur Radio.

Online attendees will be able to ask questions of the presenters. Founded by Phil Lewis, N2MUN (SK), HRU also serves as the online convention of the ARRL NYC-Long Island Section.

As in past years, participation in HRU 2022 is free; an optional donation of \$5 is suggested. Additional information is online, including the schedule of forums and advance registration starting December 20.

Amateur Radio in the News

ARRL Public Information Officers, Coordinators, and many other member-volunteers help keep amateur radio and ARRL [in the news](#).

[How Amateur Radio Fanatics Launched the World's First Private Communication Satellite / Inverse](#), New York (December 12, 2021).
[10 minutes of OMG: Savannah River Academy students chat with astronaut in space via radio / The Augusta Chronicle](#), Georgia (December 11, 2021).

[Local students talk to International Space Station astronaut / WRDW/WAGT TV](#), Georgia (December 10, 2021).

More High Country:

Battleship North Carolina

Radio Room Activated on Battleship North Carolina on Pearl Harbor Remembrance Day

On December 7th, the 80th anniversary of the Japanese Attack on Pearl Harbor, members of the Azalea Coast Radio Club marked the day by activating the Radio Room on the Battleship North Carolina (BB=55) which is moored in the Cape Fear River in Wilmington, NC.

The activation allowed Azalea Coast Club members to contact veterans across the US while using the original antennas and cables dating back to when the ship was launched in 1940 at the Brooklyn Navy Yard. Original radio equipment remains on the ship but contacts were made using modern transceivers.

The ship has nine sixteen inch guns and twenty five inch guns. When in service, the North Carolina had a crew of 144 officers and 2200 enlisted personnel. The North Carolina was taken out of active service in 1947 and was sold to the State of North Carolina in 1961.

Spectrum News carried video of the operation and you are encouraged to go to <https://spectrumlocalnews.com/nc/charlotte/news/2021/12/07/pearl-harbor-commemoration>.

CLUBS BECOME AN ARRL PRIORITY

ARRL will reactivate its Club Newsletter and encourages clubs across the country to submit materials that highlight club activities, particularly pictures of events in which a club is engaged with the public, young people or are featured in the media. Field Services Manager Mike Walters (W8ZY) hopes that each club will designate someone to update information about their club so that visitors and new hams can quickly locate a club and become more active.

Check out the information about your club at <https://arrl.org/find-a-club> and update information about where and when you meet. Be sure to update the names and contact information for your club officers as many clubs are electing officers for 2022.

Club presidents are urged to contact NC Section Affiliated Club Coordinator Tim Slay (N4IB) to participate in an information exchange program that Tim started in early 2021. He can be reached at n4ib@arrl.org

ORLANDO HAMCATION AND ARRL NATIONAL CONVENTION

Information about the Hamcation can be found at <https://www.hamcation.com/>. The dates are February 11-13 at the Central Florida Fairgrounds and Expo Park.

Prior to the Orlando Hamcation, ARRL will hold its National Convention on Thursday, February 10, 2022 at the DoubleTree by Hilton Orlando. As part of the National Convention, there will be several training tracks offered in the morning and afternoon with a buffet luncheon offered at noon. Training topics include the Contest University; Emergency Communications Academy; Hands-On Handbook; and Technology Academy. Information is available at <https://www.arrl.org/arrl-expo>

That's It for 2021. Merry Christmas and Happy New Year 73, Marv

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

Hurricane Watch Net Recorded 300 On-Air Hours in 2021

Hurricane Watch Net (HWN) Manager Bobby Graves, KB5HAV, says 2021 was the third most-active hurricane season on record in terms of named storms, and was the sixth

consecutive above-normal season.

"We've completed another hurricane season. The Atlantic basin was extremely busy again for 2021," Graves told HWN members. "For the year, we had 21 named storms, seven of which became hurricanes, and four of those became major hurricanes -- Category 3 or stronger." Graves noted that 2021 marked the first year on record that two consecutive hurricane seasons exhausted the list of 21 storm names.

Tropical systems that made landfall caused estimated total damage of \$70 billion, as of the end of November, making 2021 the fourth most costly hurricane season on record, behind 2012, 2005, and 2017.

Graves recounted that several tropical systems made an impact on land this year. "In August, Tropical Storm Fred caused devastating flooding across parts of the Greater Antilles and the southeastern United States," he said. "Hurricane Grace made two landfalls in Mexico -- first as a Category 1 hurricane just south of Tulum on the southeast Yucatán [Peninsula], and second as a Category 3 major hurricane in the Mexican state of Veracruz."

"Hurricane Ida was a deadly and destructive hurricane that made landfall in Louisiana as a Category 4 hurricane -- the most intense and destructive hurricane to affect the state since Hurricane Katrina," Graves continued. He noted that Ida also caused catastrophic flooding across the US northeast.

"Hurricane Larry peaked as a powerful Category 3 hurricane over the open Atlantic [Ocean] before making landfall in the Canadian province of Newfoundland and Labrador as a Category 1 hurricane. Later, Hurricane Nicholas moved erratically both on and offshore [on] the coasts of Texas and Louisiana," he said.

In 2021, the HWN activated for five hurricanes -- Elsa, Grace, Henri, Ida, and Larry. Graves said the HWN racked up nearly 300 hours on the air, with 140 of those spent on Hurricane Ida alone.

Read [an expanded version](#).

New Low-Power Limit for ARRL HF Contests Goes into Effect on January 1, 2022

ARRL has set a new standard for what counts as low power for ARRL-sponsored HF contests. The new limit is 100 W, which is down from the 150 W limit that has been permitted in some events, including the ARRL November Sweepstakes.

With the exception of ARRL Field Day, this change goes into effect on January 1, 2022, for all ARRL-sponsored HF contests, as well as the [IARU HF World Championship](#).

This change has been implemented to standardize low-power categories within the contesting community. However, on a more practical level, the typical modern HF transceiver has a maximum power output of 100 W.

For more information, [contact](#) the ARRL Contests program -- *Thanks to The ARRL Contest Update*

New Year's Day is also [Kids Day](#).

Introduce your child, or a relative's or friend's child, to amateur radio. If you hear kids on the air, have a friendly contact with them. Kids Day is designed to give young people on-the-air experience and hopefully foster their interest in getting a license of their own. It is also intended to give older hams a chance to share their stations and love for amateur radio with youngsters.

The US Department of Defense has issued an updated Military Auxiliary Radio System (MARS) [instruction](#), DODI 4650.02, replacing MARS DODI 4650.02 issued in 2009. The document establishes policy, assigns responsibilities, and provides procedures for MARS. It further establishes MARS organization,

membership, and functions. -- *Thanks to Gary Sessums, KC5QCN*

A new release of **WSJT-X** is available.

The **WSJT-X** development group -- Joe Taylor, K1JT; Steve Franke, K9AN; and new member Nico Palermo, IV3NWV -- have announced the release of **WSJT-X 2.5.3**. This new release includes a feature of special interest to users participating in the ARRL January VHF Contest (January 15 - 17). This new feature is an enhanced macro facility for text messages that is aimed at making it easier to ask another station to move to another band. This feature is described briefly in the updated [WSJT-X User Guide](#). Installation packages for **WSJT-X 2.5.3** are available on the [WSJT-X website](#).

Special WRTC 2022 call signs will be active starting in January.

The World Radiosport Team Championship (WRTC) 2022 Organizing Committee has announced that more than 100 Italian radio amateurs will be activating special WRTC call signs, one for each Italian call district, starting on January 1, 2022, and concluding on July 10, 2022. A [first-time-ever award](#) will be available promoting WRTC 2022, which has been postponed until 2023. Look for these call signs to be active during some contests, concluding with the 2022 [IARU HF World Championship](#). Each participant's contact totals and award-hunter scores will be displayed on a [real-time leaderboard](#). Participants can download the award in digital format. -- *Thanks to The ARRL Contest Update*

Fall ARRL Section Manager Election Results

The only contested seat for Section Manager (SM) in the fall election cycle was in Kansas, where incumbent Ron Cowan, KB0DTI, of La Cygne, came out on top in the two-person race. Cowan out-pollied challenger Lloyd Colston, KC5FM, of Arkansas City, 260 to 225. Ballots were counted on November 23 at ARRL Headquarters. Cowan has served as Kansas Section Manager since 2003. His new 2-year term will begin on January 1, 2022.

- In Alabama, Roger Parsons, KK4UDU, of Mulga, will become the new Section Manager on January 1. Parsons was the only nominee for the position. He has been an Assistant Section Manager and a District Emergency Coordinator. Incumbent SM JVann Martin, W4JVM, who has served as the Alabama Section Manager since 2016, decided not to run for a new term.
- In Michigan, Les Butler, W8MSP, of Gregory, will become the new Section Manager of Michigan when the new year arrives. He was the only nominee to submit a petition by the nomination deadline. Butler will succeed incumbent Michigan Section Manager Jim Kvochick, K8JK, whose job will take him out of the state early next year. Kvochick has been Michigan SM since 2018.

In Delaware, the Section Manager position remains open, and a re-solicitation for nominees will be issued this winter for an 18-month term beginning on July 1, 2022. No nominating petitions were submitted before the deadline in September. Incumbent Section Manager Mark Stillman, KA3JUU, is moving out of Delaware early next year and could not run for another term after serving as SM since 2020.

These incumbent Section Managers faced no opposition and were declared elected for new terms: David Stevens, KL7EB (Alaska); Mike Patterson, N6JGA (East Bay); Bill Mader, K8TE (New Mexico); John Kitchens, NS6X (Santa Barbara); David Thomas, KM4NYI (Tennessee), and Raymond La-joie, AA1SE (Western Massachusetts).



Interim Maine SM Phil Duggan, N1EP.

An interim Section Manager (SM) has been appointed in Maine, effective on December 1, after incumbent SM Robert Gould, N1WJO, resigned for personal reasons. Gould had served since July 2020. ARRL Field Services Manager Mike Walters, W8ZY, appointed Phil Duggan, N1EP, of Milbridge as interim Section Manager to complete the current term, which ends on June 30, 2022. Duggan is a retired US Navy electronics technician chief and active in emergency communications. He served previously as Maine Section Emergency Coordinator. Duggan is active in promoting amateur radio, especially among youth.

Nominating petitions for the next Maine SM term of office are due at ARRL Headquarters no later than March 4, 2022. See the January 2022 issue of *QST* for the nomination announcement or the ARRL website for [further details](#).

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.

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
Fountain 444.425 MHz, 88.5 Tone N4HAJ
- ◆Newport SkyWarn Tues. nights 2100E Grifton-146.685-88.5 tone
- ◆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 146.685 MHz.
- ◆Wilson Amateur Radio Club Net, Thursdays @ 2000 on 146.76 MHz.
- ◆ Piedmont Coastal Traffic Net, Nightly 2030 on 146.88 MHz.
- ◆Carteret County ARS (CCARS) Emergency Net, Tuesdays, 1930 on the Newport 145.45 (-) MHz.
- ◆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

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.

PRIMARY NET CONTROL: KW6GB

See Facebook Group for more details. Joining group required to see page and comment.

(Example of a Wednesday)

***** Winlink Wednesday (Episode #252) *****
07/07/2021

This being the first Wednesday of the month, weather snapshots are requested; see below for details (no attachments of any type, please). Standard check-ins are always welcome.

WHO: All amateur radio operators

WHAT: Winlink Wednesday

WHEN: Wednesday, 7 July 2021, 0000-2359 EDT (*UTC: 0400 Wed - 0359 Thu*)

HOW: *This net will accept check-ins via Winlink only. Send a check-in via any RMS during the timeframe above, or participate in one or both of the P2P sessions below.*

Please do not use a "Telnet Winlink" connection (which defeats the purpose of Winlink). The goal is to have the message leave your station via RF.

Please remember to use the correct format for check-in, as shown below (check-in message on a SINGLE LINE), or with optional weather snapshot on second line, over an RF connection.

To: KW6GB (*or alternate NCS, as appropriate*)

Subject: Winlink Wednesday Check-In

Message body: call sign, first name, city or town, county, state (HF or VHF, etc.)
observation time, weather conditions, temperature <<<--- WEATHER ON SECOND
LINE

See example in my signature line, below.

PEER-TO-PEER SESSIONS:

Morning session: 0730-0930 EDT, (*UTC: 1130 - 1330*), **ARDOP P2P**, several frequencies (see chart below).

Net Control Stations - Morning P2P Session Only

Role	Station	Dial Frequency	Operator	Location
Primary	KW6GB	3582 kHz	Greg Butler	Warren County, VA
Alternate	KM4DC	3585 kHz	Don McCubbin	Fairfax County, VA
Alternate	KN4LQN	3590.5 kHz	David Elkins	Chesterfield County, VA
Alternate	N4ACK	3565 kHz	Lyle Piner	Isle of Wight County, VA

Messages sent to Alternate NCS must be addressed to the receiving station.

Afternoon session: None.

Evening session: 1900-2130 EDT, (UTC: 2300 Wed - 0130 Thu), **VARA P2P**, 3582 kHz (dial).

Net Control Station - Evening P2P Session

Role	Station	Dial Frequency	Operator	Location
Primary	KW6GB	3582 kHz	Greg Butler	Warren County, VA

No Alternate Net Control Stations.

Watch Facebook for details when active.

On Thursday, all check-ins will be acknowledged, and a net report and complete roster will be published to the Web.

73,

KW6GB, Greg, Front Royal, Warren, VA (VHF)

0815L, clear, winds calm, 69dF



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**BARC Website, some
Blog page Titles**

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

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

[Morserino 32 adventure](#)

[What to do when you see a
need... – Brightleaf Amateur Ra-
dio Club \(w4amc.com\)](#)

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

[Antenna Fun! – Brightleaf Ama-
teur 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.

***** 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 • Life Members \$0.00 • New Hams: Free first year

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

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

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

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

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

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

Thank you for your continued support and participation in BARC.

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

Announcements

2022 ARRL National Convention Emergency Communications Training Track Not to be Missed

It's not too early to plan on attending the 2022 ARRL National Convention, set to take place at Orlando HamCation® (www.hamcation.com) on February 11 - 13. A day-long workshop on emergency communications is scheduled as one of the training tracks that will be offered as part of the National Convention program that will precede HamCation on Thursday, February 10. The training presentations will feature current protocols, techniques, and responsibilities for the modern volunteer radio operator serving partner public safety entities. The presenters are all subject-matter experts. Topics to be covered include the ARRL National and Florida Emergency Communicator Task Books, an overview of amateur radio responses to disasters, basic voice traffic handling with hands-on voice traffic net/message transfer practice, using the ICS-213 form, Winlink's ARDOP (Amateur Radio Digital Open) and VARA protocols, and the Radio Mail Server (RMS) hybrid internet/HF radio gateway system. Registration for the National Convention Training Tracks will open later this summer at www.arrl.org/expo.

On New Year's Eve and New Year's Day, break out your straight key or bug to join in the fun of ARRL Straight Key Night ([SKN](#)). Straight Key Night is held every January 1, 0000 - 2359 UTC. Technician licensees have CW privileges on parts of 80, 40, and 15 meters.

According to a [tweet](#) from Icom Japan, the company is developing amateur radio equipment for the 2.4 and 5 GHz bands, under the theme of "Icom SHF Project-Challenge."

Two YOTA special event call signs have been obtained in Canada for YOTA Month, by Harrie Jones, VE3HYS, on behalf of participating young amateurs. Listen for [VE3YOTA](#) and [VA7YOTY](#) and other YOTA-suffix stations. --
Thanks to RAC

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*

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:

Tytera MD 380 UHF DMR & Analog HT, includes one battery, and charger, and box.
Programmed, but buyer will need to get an DMR ID, and change the ID in the HT
Asking \$75.00

Bernard Nobles WA4MOK
wa4mok@embarqmail.com

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](http://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

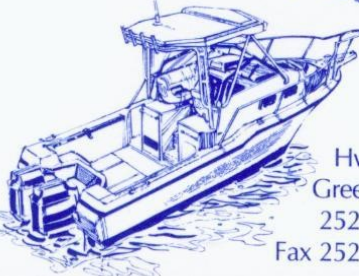
<http://www.pcra.us/>

Monday & Monday, CPA's, PA
 Certified Public Accountants

TERRY A. MONDAY, CPA, CVA, EA
K4ZYD

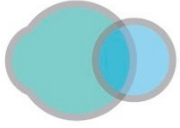
105-D East Victoria Ct. Phone (252) 321-6007
 Greenville, NC 27858 Fax (252) 321-2991

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>

BARC

CALENDAR OF EVENTS

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

Jan 1 Straight Key Night

Jan 1 Kid's Day Phone (Jan and Jun)

January 1 -- AGB New Year Snowball Contest (CW, phone, digital)

January 1 -- SARTG New Year RTTY Contest

January 1 -- AGCW Happy New Year Contest (CW)

January 1 -- AGCW VHF/UHF Contest (CW)

January 1 -- QRP ARCI New Years Sprint (CW)

January 1 - 2 -- WW PMC Contest (CW, phone)

January 1 - 2 -- Original QRP Contest (CW, phone)

January 3 -- K1USN Slow Speed Test (CW, maximum 20 WPM)

January 4 -- Worldwide Sideband Contest

January 4 -- ARS Spartan Sprint (CW)

January 5 -- RTTYops Weeksprint

January 5 -- QRP Fox Hunt (CW)

January 5 -- CWops Mini-CWT Test (CW)

January 5 -- FT8 Activity Contest

January 5 -- CWops Mini-CWT Test (CW)

January 5 -- UKEICC 80-Meter Contest (Phone)

January 6 - 7 -- Walk for the Bacon QRP Contest (CW)

Jan 8-9 RTTY Roundup

Jan 11 BARC Meeting

Jan 15-17 Jan VHF Contest

Feb 8 BARC Meeting

Feb 14-18 School Club Roundup

**** Feb 19-20 2022 VOA Anniversary Event
"W4A" BARC Club Event ****

March 8 BARC Meeting

Contest Calendar: For more Contest and all the rules:

<https://www.contestcalendar.com/weeklycont.php>

There's more than I could post available.

Regular Meeting - 2nd Tuesday @ 7:00 PM Live and Zoom

Board Meeting - Last Tuesday @ 7:00 PM ZOOM

Upcoming ARRL Section, State, and Division Conventions:

January 22, 2022 [ARRL Midwest Division Convention](#) (Winterfest), Collinsville, Illinois

January 28 - 29, 2022 -- [ARRL Delta Division Convention](#) (Capital City Hamfest 2022), Jackson, Mississippi.

February 10 - 13, 2022 -- [2022 ARRL National Convention](#) at Orlando HamCation[®], Orlando, Florida

February 18 - 19, 2022 [ARRL Southwestern Division Convention](#) (Yuma Hamfest), Yuma, Arizona

February 26, 2022 [ARRL Vermont State Convention](#) (HAM-CON), Colchester, Vermont

Find conventions and hamfests [in your area](#).

Check the calendar of canceled events on the ARRL website.

Other events:

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