



**W5NC**

Houston, Texas  
Northwest Amateur Radio Society

---

## NARS NEWS

---

**MAY 2023**

Northwest Amateur Radio Society

P.O. Box 11483

Spring, TX 77391

[w5nc.net](http://w5nc.net)

QRZ

and warmer

picket fence

QSL?

Chirp

**President's  
Message**  
Page 3

**Ham Radio  
Jargon**  
Page 16

**New General  
Question Pool**  
Page 23

## Contents

President’s Message .....	3
Exam Practice.....	4
The ARRL Letter .....	5
NARS Monthly Club Meeting.....	15
Amateur Radio Activities .....	16
VE Sessions and Results .....	21
NARS Membership – Due Dates and More .....	22
Renewing Club Members.....	23
New General Question Pool Released for Ham Radio Licensing Effective July 1, 2023.....	23
Training and Education.....	24
Upcoming Skywarn Spotter Training for 2023 .....	25
Of Interest to the Club .....	26
Calendar .....	27
Club Activities and Events.....	27
Social Events .....	27
Hamfests and Conventions.....	28
Contests and Radiosport.....	28
NARS Club Officers and Information .....	29
Board Officers with Voting Privileges .....	29
Board Non-Voting Associate Members .....	29
Club Nets.....	29
Repeaters.....	29

**NARS News** is published monthly by the Northwest Amateur Radio Society (NARS). Northwest Amateur Radio Society is a Special Services Club affiliated with the American Radio Relay League, ARRL Club No. 2120.

If you would like to contribute to the newsletter by publishing an article, adding calendar events, or any other contribution, please send all submissions before the end of the month to the newsletter editor:

Brandon Rogers (K5BLR), Newsletter Editor  
[k5blr@arrl.net](mailto:k5blr@arrl.net)

# President's Message

BY RON MATUSEK, WA6TQH

## April General Meeting New Location

I am pleased to announce that effective with our May 19th meeting, the NARS Board and General meetings will be relocated to the new Klein Fire Department Administration Building located at **HCESD 16 Admin – 18606 Stuebner Airline Rd, Spring, TX 77379**. The board meeting will be in the Conference Room just left of the entrance and the General Meeting will be down the hall on the left.

The NARS Board meeting will be from 6PM to 7PM and the General Meeting will begin at our normal scheduled time of 7:30PM.

Please utilize parking in front of the building. Do not go through the locked gate. There is ample parking available. Enter the building **ONLY** through the main front entrance.

Additional information will be provided via groups.io later next week.

## Trailer Renovation

I would like to thank all the NARS members who were part of the team effort to Create a RAP for our trailer. Under the leadership of Paul Kent KI5FJS we now have completed phase #1 of the trailer renovation project. Now onto Phase #2 outfitting the interior of the trailer with shelves, worktable and of course antennas and radios. If you can join in the effort, please contact Paul.

## FIELD DAY 2023

*The fourth weekend in June 24-25 – so save the date!*

I would like to thank Robert Ewers K9HOU who has come forward and will be our “Field Day Coordinator”. **ALL Field Day activities will remain at KFD Station #3 Training Room.** ALL guidelines for Field Day are outlined by ARRL RULES and are expected to be followed. If you would like to be one of our team captains or just help, please contact Robert Ewers K9HOU. Look for more communications about Field Day to come in the next few weeks.

See you at the General Meeting!

Ron Matusek  
President NARS

## Exam Practice

Are you new to the hobby and looking to pass your Technician exam? Are you preparing to level up your license by taking the next level exam? Check out the questions below to test your knowledge!

### ***Technician (Element 2)***

#### **T2C01**

When do FCC rules NOT apply to the operation of an amateur station?

- A. When operating under special ARES rules
- B. When operating under special FEMA rules
- C. FCC rules always apply
- D. When operating a RACES station

### ***General (Element 3)***

#### **G3B10**

What is the approximate maximum distance along the Earth's surface that is normally covered in one hop using the E region?

- A. 1,200 miles
- B. 180 miles
- C. 2,500 miles
- D. 12,000 miles

### ***Amateur Extra (Element 4)***

#### **E7B16**

What is the effect of intermodulation products in a linear power amplifier?

- A. All these choices are correct
- B. Low efficiency
- C. Creation of parasitic oscillations
- D. Transmission of spurious signals

See the answers on [Page 25](#).

## The ARRL Letter

An excerpt from the weekly ARRL Letter

### ARRL Advocates for Radio Amateurs as FCC Proposes Changes to 60-Meter Band

The Federal Communications Commission (FCC) is seeking comments about changing the secondary allocation available to radio amateurs on 60 meters. The FCC issued a Notice of Proposed Rulemaking (NPRM) on April 21, 2023, that deals with the band. In a prior petition, ARRL The National Association for Amateur Radio® urged protecting the existing use of the band by amateurs when adding a new allocation adopted internationally.

Currently, radio amateurs in the US have access to five discrete channels on a secondary basis: 5332 kHz, 5348 kHz, 5358.5 kHz, 5373 kHz, and 5405 kHz. Users of these channels are limited to an effective radiated power (ERP) of 100 W PEP.

The FCC proposes to allocate 15 kHz of contiguous bandwidth between 5351.5 - 5366.5 kHz on a secondary basis with a maximum power of 15 W EIRP (equivalent to 9.15 W ERP). This allocation was adopted at the 2015 World Radiocommunication Conference (WRC-15).



### Did you know...

that the ARRL sends a weekly letter describing some of the current events, activities, and policies that are taking shape in the Amateur Radio world? The following is an excerpt from these letters in January. View all the ARRL letters at <http://www.arrl.org/arrlletter>

The federal government is the primary user of the 5 MHz spectrum. The government's manager of spectrum use, the National Telecommunications and Information Administration (NTIA), has expressed support for implementing the allocation as adopted at WRC-15. Doing so would result in amateurs losing access to four of the five discrete channels, and power limits would be reduced from 100 W ERP to 9.15 W ERP. However, it would provide access to a new contiguous 15 kHz band that includes one of the current five channels.

In 2017, ARRL petitioned the FCC to keep the four 60-meter channels that fall outside the new band, as well as the current operating rules, including the 100 W PEP ERP limit.

The ARRL petition stated, "Such implementation will allow radio amateurs engaged in emergency and disaster relief communications, and especially those between the United States and the Caribbean basin, to more reliably, more flexibly, and more capably conduct those communications."

ARRL said that years of amateur radio experience using the five discrete channels have shown that amateurs can coexist with primary users at 5 MHz while complying with the regulations established for their use. The petition also stated, "Neither ARRL, nor, apparently, NTIA, is aware of a single reported instance of interference to a federal user by a radio amateur operating at 5 MHz to date."



In the NPRM, the FCC recognizes that Canada has already adopted 60-meter allocations and related rules that align with those proposed by ARRL. The Commission wrote, "Finally, we note that Canada has essentially implemented the same rules as ARRL has requested."

The FCC proposed to allocate the 15 kHz bandwidth, but stopped short of making a proposal on whether the existing channels should remain allocated to amateur radio and what the power limitations should be. They requested comments on their proposal and the related channel and power issues.

Comments will be due 60 days after the NPRM is published in the Federal Register, which is expected within the next two weeks.

## 2023 ARRL Field Day Gear is Now Shipping!

[ARRL Field Day](#) is June 24 - 25. Get ready for amateur radio's largest on-air operating event with official 2023 ARRL Field Day merchandise available for order now. [T-shirts](#), [hats](#), [pins](#), [patches](#), and [stickers](#) are great ways to show off your involvement in this annual event. This year's colorful design features a globe centered on North America and the words, "Tune In The World." The back of the t-shirt includes a check-off list of ARRL and RAC Sections - a fun way to keep track of your Field Day contacts.

Encourage club members, family, friends, and prospective hams to take part with ARRL Field Day recruitment [posters](#) and attractive "Get on the Air" (GOTA) [pins](#) for newcomers.

Get your 2023 ARRL Field Day supplies from the ARRL [online store](#) or by calling the toll-free number 1-888-277-5289, from Monday through Thursday, 8 AM to 7 PM and on Friday from 8 AM to 5 PM Eastern Time. If you are outside of the US, call 1-860-594-0355.

The complete 2023 [ARRL Field Day](#) packet is online. ARRL encourages participants to register their Field Day operations with the [Field Day Site Locator](#).



## New STEM Trailer for All Things Amateur Radio Association

The All Things Amateur Radio Association (ATARA), W8ATR, in Carroll, Ohio, revealed its new science, technology, engineering, and mathematics (STEM) trailer on Saturday, April 22, 2023, at the Rising Park's Seeds of Change Earth Day event.

The trailer, funded by a grant from the ARRL Foundation, offers visitors a hands-on STEM experience, including a CW oscillator, a display about the history of Morse code, and signage explaining the history of wireless technology and radios.



*From left to right ATARA club members: Jonathan Imlay, K8LU, Ted Stephens, N8ASH, Herb Horn, KE8RJD, Greg DerSarkisian, KD8SSJ, Jarrod Combs, KE8MBL, and Diane Warner KE8HLD. (ATARA photo)*

There are three Snap Circuits® stations set up for visitors to build an FM radio, and a working replica of a spark-gap transmitter. There is also a complete amateur station with a telescoping mast and a quarter wave vertical ground plane antenna. The trailer has all of the necessary equipment for youth to fox hunt.

More than 100 people went through the trailer and ATARA is planning on setting up again for Field Day in June.

ATARA Activities Director Diane Warner, KE8HLD, said it was a great day. She stated, "It was exciting to see children's excitement as they keyed their name in Morse code, built an FM radio, made a spark on the spark gap transmitter, and watched the waterfall on the radio station's monitor."

She added that ATARA plans to add improvements and more exhibits to the trailer.

Warner also thanked the ARRL Foundation, saying, "We have been given a wonderful opportunity to reach youth and adults and show them the wonderful world of amateur radio!"

The All Things Amateur Radio Association is an ARRL Affiliated Club.

## International Marconi Day: National Parks Director Makes QSO

International Marconi Day celebrates the accomplishments of radio pioneer Guglielmo Marconi on the Saturday closest to his birthday each year. Stations around the world activate a special operating event to celebrate.

On January 18, 1903, the first public two-way wireless communication occurred between the United States and Europe. A message from President Theodore Roosevelt was sent to King Edward VII from the [South Wellfleet site](#). The site is preserved within the Cape Cod National Seashore in Massachusetts.



*National Parks Service Director Charles "Chuck" Sams, III (left) operates as KM1CC from the South Wellfleet Historic Site at Cape Cod National Seashore. Marconi Cape Cod Radio Club Trustee Barbara Dougan, N1NS, (right). (Marconi Cape Cod Radio Club KM1CC, photo)*

For International Marconi Day 2023, the Marconi Cape Cod Radio Club [activated the site](#) with their club call sign, KM1CC. Their event featured a special guest, the Director of the National Park Service [Charles "Chuck" Sams III](#). The Director operated third party from the site for a scheduled QSO with W1AW, the Hiram Percy Maxim Memorial Station at ARRL Headquarters in Newington, Connecticut.

During the 40-meter QSO, Sams relayed his appreciation for the history of the site, stating, "This historic site is listed on the National Register of Historic Places for its global importance in communication history." He also noted his time in the United States Navy and how critical it was to have two-way radio communications from ship-to-shore and ship-to-ship.

## Annual Armed Forces Day Crossband Test

The US Department of Defense (DoD) will host this year's Armed Forces Day (AFD) Crossband Test on May 13, 2023. This annual event is open to all licensed amateur radio operators and will not impact any public or private communications. For more than 50 years, military and amateur stations have taken part in this event.

The AFD Crossband Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service (ARS), as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly controlled exercise scenario.



Military stations will transmit on selected frequencies and will announce the specific ARS frequencies monitored. All of the times are Zulu (Z),

and all frequencies are Upper Side Band (USB) unless otherwise noted. The frequencies used for the test will not stray outside the confines of the exercise.

A complete list of frequencies, time periods, QSL cards, and other information can be found at [DoD MARS - Armed Forces Day](#).

AFD is a time of honor. It will be celebrated on Saturday, May 20, 2023. The first AFD was celebrated with parades, open houses, receptions, and air shows. Today, many events and activities take place and may include multi-service military displays in areas open to the public, various educational activities that teach children about the armed forces, and large parades with local celebrations.

The longest running AFD parade in the United States is held in Chattanooga, Tennessee. Certain types of music will be played at AFD 2023 events to show respect to those in the armed forces who died for their country.

## 2023 Online Ham Bootcamp

The [Nashua Area Radio Society's](#) spring 2023 online Ham Bootcamp will be held on Saturday, May 13, from 10 AM to 6 PM Eastern Time. Access to the session will be provided via [Zoom](#).



Ham Bootcamp includes a series of demonstrations and tutorials designed to help newly licensed Technician-, General-, and Extra-class license holders get on the air. Ham Bootcamp is also a great opportunity for hams who are interested in seeing what the hobby has to offer.

The online Ham Bootcamp program is available to all licensed and prospective amateur radio operators. You can register for the next Ham Bootcamp session [here](#). For additional information, contact Anita Kemmerer, AB1QB, of the Nashua Area Radio Society at [ab1qb@arrl.net](mailto:ab1qb@arrl.net).

The Nashua Area Radio Society is an ARRL Affiliated Club.

## Dr. Ulrich Rohde Receives IEEE Award

Dr. Ulrich Rohde, N1UL, received the 2023 Institute of Electrical and Electronics Engineers (IEEE) Communications Society Distinguished Industry Leader Award.

The award recognizes an industry executive whose leadership has resulted in major and outstanding advances and new directions in the information and communications business.



According to the IEEE, Dr. Rohde won the award "for contributions and leadership in radios and electronic test-measurement equipment that has supported the design of modern communication systems and their industrial implementations."

Dr. Rohde has been an avid amateur radio operator with 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 as N1UL/MM on his yacht, the Dragonfly, and is the trustee of the Marco Island Radio Club, K5MI.

[ARRL The National Association for Amateur Radio](#)<sup>®</sup> recognized Dr. Rohde as the recipient of the IEEE Photonics Society Engineering Achievement Award in 2022. In November 2022, he was inducted to the



Indian National Academy of Engineering. Dr. Rohde is an ARRL Maxim Society and Life Member.

## Ohio NVIS Day 2023 is Set for April 22

Ohio Near Vertical Incidence Skywave (NVIS) Day 2023 will be held Saturday April 22, from 10 AM to 4 PM EDT. This is a non-contest event and all amateur radio operators are invited to participate.

The purpose of NVIS day is to construct and try various working NVIS antenna ideas.

These antennas are low to the ground and provide coverage generally within a 400-mile radius, which is extremely important for regional HF communications in an emergency.



Take a step forward and answer the question, "How would we actually use these antennas?" For 2023, two operating scenarios have been added to make your day more fun and provide a learning experience for actual disaster communications. There will be a commercial power blackout, and participants will need to communicate within their ARES district and to "The Sarge" at the Ohio Emergency Operations Center in Columbus.

Stations will construct and test NVIS antennas with transmit power limited to 100 W. Power for the NVIS station will be any form of off-grid supply, like a generator, battery, or solar. Stations may test antenna coverage by contacting as many different locations as possible.

This year, they are collecting grid squares and s-meter readings as part of the exchange.

Stations should originate a message to their ARES district, local net, OHDEN, OSSBN, and W8SGT, to report their location and county and alone with whether they are participating or not participating. WinLink may also be used, as long as it is sent via RF, local node (VHF, UHF), or an HF node to KD8SCL or W8SGT. For more information on node locations, visit [Winlink.org](http://Winlink.org).

Operating frequencies are proposed to be on the 80- and 40-meter bands. Voice is the preferred testing format. Submit your results to [contest@n8ara.org](mailto:contest@n8ara.org) and be sure to include a photo of your group or your antenna! For more information on Ohio NVIS day, visit [Ohio ARES \(arrl-ohio.org\)](http://OhioARES(arrl-ohio.org)).

## EME: Pandemic and Patience

Doug Hansel, AA1UI, found himself with some extra time during the pandemic and thought that it might be the right time to learn how to make Earth-moon-Earth (EME) contacts.

"First, I did a lot of reading and talking to other amateurs. Then, I realized I needed better equipment, software, and a lot of patience," said Hansel.

Hansel was gifted a 15-element Yagi but had to sell some older equipment to upgrade to a better amplifier and equipment.

After many attempts, his first contact was in 2021. He kept at it and was thankful for all of the help he received. Hansel stressed the need for patience, stating, "What's fun is that I really didn't know what I was doing, but the EME community was very generous with their time and advice in helping me tick this off my bucket list."

He made a detailed video of his experience that can viewed here:

<https://www.dropbox.com/s/2n4rlnoh37rmtg7/EM%20Project%20short%20FB720-FINAL.mp4?dl=0>.

Hansel was first licensed in 1977 and now holds an Amateur Extra-class license. He is an ARRL member.

## National Voice of America Museum of Broadcasting Open during 2023 Dayton Hamvention®.

The National Voice of America Museum of Broadcasting, in conjunction with the West Chester Amateur Radio Association, announced their expanded hours during the 2023 Dayton Hamvention®.

The museum will be open Thursday, May 18, from 1:00 PM to 9:00 PM; Friday, May 19, from 1:00 PM to 9:00 PM; Saturday, May 20, from 12:00 PM to 9:00 PM, and Sunday, May 21, from 12:00 PM to 5:00 PM.



VOA Museum.

Admission is \$10.00 at the door. The West Chester Amateur Radio Association, WC8VOA, will be on the air. The museum is a short drive from Hamvention, down Interstate 75 or Route 42 from Xenia. Use the Crosley Blvd address on your GPS.

New exhibits include a dedicated room for amateur radio and shortwave equipment and a newly renovated ham shack with state-of-the-art equipment from Yaesu, Icom, and Elecraft. Docents and operators will be available to enhance visits to the museum.

For further information, visit [voamuseum.org](http://voamuseum.org) or [wc8voa.org](http://wc8voa.org). You can also find the museum on Facebook or call 513-777-0027. The museum's regular hours are Saturdays and Sundays from 1:00 PM to 4:00 PM, and it is located at 8070 Tylersville Road, West Chester, Ohio.

## ARSA Announces 2023 Award Winner

The Amateur Radio Software Award

(ARSA) Committee has announced that GridTracker, a project led by Stephen Loomis, N0TTL, and the GridTracker.org team, has been selected as the recipient of the 4th annual Amateur Radio Software Award.

The award recognizes software projects that enhance amateur radio and promote innovation, freedom, and openness in amateur radio software development.



The committee received many nominations for the 2023 award, and after careful consideration, GridTracker was chosen as the winner. The committee was impressed by the breadth of features in GridTracker, its innovative graphic interface, and its ability to make amateur radio more fun.

GridTracker is a tool that visualizes WSJT-X amateur radio traffic, like FT8 and contacts from log files, which makes it easier for radio amateurs to track their contacts and participate in contests. Its unique approach to visualizing radio traffic adds a new dimension of enjoyment to the radio art.

To learn more about GridTracker, visit <https://gridtracker.org>.

As part of the award, Loomis has requested that a \$300 grant be donated to the National Alliance on Mental Illness (NAMI) of Oregon, a nonprofit organization dedicated to improving the lives of individuals and families affected by mental illness.

The ARSA Committee is already looking forward to next year's award and welcomes input and nominations for future awards.

## 2023 Society of Amateur Radio Astronomers Eastern Conference

The 2023 Society of Amateur Radio Astronomers (SARA) annual Eastern Conference will be held at the Green Bank Observatory in Green Bank, West Virginia, on Sunday, August 20 through Tuesday, August 22, 2023.



The trailblazers of American radio astronomy called Green Bank Observatory home more than 60 years ago. Today, their legacy is still alive and well. Nestled in the mountain ranges and farmlands of West Virginia, within the National Radio Quiet Zone, radio astronomers at the observatory listen to the remote whispers of the universe to answer our most astounding astronomical questions.

Attendees will participate in plenary sessions, small group workshops, a technical tour of the facilities, hands-on training, operational experience with a large radio telescope, and they will meet contemporary trailblazers in the field.

Registration for in-person attendance by non-members of SARA is \$295.00 if received by July 20, 2023. This fee includes meals and a 1-year membership, but not lodging. The registration fee for online participation is \$35.00.

Payment can be made through [PayPal](#) to [treasurer@radioastronomy.org](mailto:treasurer@radioastronomy.org). Please include that the payment is for the 2023 Annual Conference in the comments.

Suggested pre-conference activities include free self-guided tours of the Green Bank Observatory Science Center and paid public tours of the radio telescope area. Full details with a link for ticket purchase is available at <https://greenbankobservatory.org/visit/>.

An overall guide to other activities and attractions in the area can be found at <https://pocahontascountywv.com/things-to-do/>.

Presentations are invited. Individuals or groups who would like to present topics related to radio astronomy can submit abstracts or presentation outlines for consideration by April 30, 2023, to [vicepresident@radio-astronomy.org](mailto:vicepresident@radio-astronomy.org).

Additional information, conference details, and updates are available at <https://www.radio-astronomy.org> and in the SARA journal, Radio Astronomy.

## NASA Names Three Hams for Artemis II Moon Mission Crew

NASA and the Canadian Space Agency (CSA) announced the four astronauts who will venture around the moon on Artemis II. This will be the first crewed mission on NASA's path to establishing long-term moon science and exploration development. The agencies revealed the crew members on Monday, April 3, 2023, during an event at Ellington Field near NASA's Johnson Space Center in Houston, Texas. Three of the four crew members are amateur radio operators.

"The Artemis II crew represents thousands of people working tirelessly to bring us to the stars. This is their crew, this is our crew, this is humanity's crew," said NASA Administrator Bill Nelson. "NASA astronauts Reid Wiseman, Victor Glover, and Christina Hammock Koch, and CSA astronaut Jeremy Hansen, each has their own story, but together, they represent our creed: E pluribus unum - out of many, one. Together, we are ushering in a new era of exploration for a new generation of star sailors and dreamers - the Artemis Generation."



*The crew of NASA's Artemis II mission (left to right): NASA astronauts Christina Hammock Koch, Reid Wiseman KF5LKT, (seated), Victor Glover, KI5BKC, and CSA astronaut Jeremy Hansen, KF5LKU. Credits: NASA.*

The crew will work as a team to execute an ambitious set of demonstrations during the flight test.

Their assignments are as follows: Commander Reid Wiseman, KF5LKT, Pilot Victor Glover, KI5BKC, Mission Specialist 1 Christina Hammock Koch, and Mission Specialist 2 Jeremy Hansen, KF5LKU. Koch had planned to study and take her amateur license exam in 2019, but her flight was suddenly rescheduled 6 months earlier than originally planned. She had to immediately begin preparing for her flight instead of studying.

The Artemis II mission is scheduled to launch in November 2024. The approximately 10-day flight test will launch on the agency's powerful Space Launch System rocket, prove the Orion spacecraft's life-support systems, and validate the capabilities and techniques needed for humans to live and work in deep space.

For more information, visit the [NASA](https://www.nasa.gov) website.

## Hamvention 2023 Getting Ready

Dayton Hamvention® 2023, scheduled for May 19 - 21, is just six weeks away and preparations are moving forward for the big event.

Tickets are now available online and by mail order. They can be purchased at <https://hamvention.org/purchase-tickets>.

Hamvention, which is amateur radio's largest annual convention, is held at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.



ARRL is readying its large participation at Hamvention. ARRL's exhibit area will be located in Building 2 and will include program representatives and volunteers supporting over a dozen booths and activities.

With nearly 700 volunteers, this year's Hamvention will boast more than 500 indoor exhibits and more than 2,500 outdoor exhibits. The event showcases the latest in amateur radio equipment, technology, and computer software and hardware, along with hard-to-find radio and computer accessories and equipment. For the latest information about [Hamvention 2023](https://www.hamvention.org), visit their website.

## Time to Get Ready for Field Day

ARRL Field Day is just over two months away, but like spring cleaning, it pays to start getting ready now.

2023 Field Day will be held June 24 - 25. It is ham radio's open house. Every June, hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's





science, skill and service to communities and the nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Some participants may also choose to operate from home, using the exercise to develop and practice their personal radio communications capability.

Field Day has been an annual event since 1933 and remains the most popular event in ham radio.

In 2022, 4,929 entries were submitted (including check logs), and there was a total of 29,679 reported participants.

Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit and may submit entries as check logs.

The main focus of Field Day is to work as many stations as possible on the 160-, 80-, 40-, 20-, 15-, and 10-meter HF bands, all bands on 50 MHz and above, and to learn to operate in abnormal situations in less-than-optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness and acquaint the general public with the capabilities of amateur radio.

For Field Day 2023, several rules changes have been made. It's a good idea to make sure that your logging software has been updated to the most current version to incorporate these rule changes including the updated Canadian sections list. There are many facets to operating on Field Day and knowing the rules and keeping good logs are paramount to successful contacts.

Many local amateur radio clubs participate in ARRL Field Day. To start preparing for Field Day, check out [arrl.org/field-day](http://arrl.org/field-day) for the official rules and all the information you'll need. To find a participating radio

club in your area, use the Field Day Locator on the page.

## ARRL Podcasts Schedule

The latest episode of the ARRL [On the Air](#) podcast (Episode 28) features a discussion of digital multimeters with practical usage examples and shopping tips.



The latest edition (Episode 58) of the ARRL [Eclectic Tech](#) podcast features a discussion with author Nick Tusa, K5EF, about his new book Wes Schum - Amateur Radio's Unsung Hero.

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.

["West Michigan aviation students speak with astronaut in space"](#) / WOOD-TV (Michigan), April 20, 2023 -- Students from the West Michigan Aviation Academy speak to astronaut with help from several amateur radio groups.

["International Marconi Day Celebrated At Binghamton Landmark"](#) / WICZ (New York), April 22, 2023 -- The Binghamton Amateur Radio Association is an ARRL Affiliated Club.

["Columbia-based amateur radio operator named Howard's Emergency Management Volunteer of the Year"](#) / Baltimore Sun (Maryland), April 24, 2023 - Dan Wilt, N3YQ, is a member of the Columbia Amateur Radio Association, an ARRL Affiliated Club.

["40-year-old radio society wants to get more involvement in public activities"](#) / The Enquirer Journal (North Carolina), April 14, 2023 -- The Union County Amateur Radio Society is an ARRL Affiliated Club.

["Meteorologist featured speaker at amateur radio association meeting"](#) / Daily Sentinel (New York), April 15, 2023 -- The Fort Herkimer Amateur Radio Association is an ARRL Affiliated Club.

["Students study for ham radio licenses"](#) / Estes Park Trail Gazette (Colorado), April 11, 2023 -- The Estes Valley Amateur Radio Club is an ARRL Affiliated Club.

["Local amateur radio group welcomes all"](#) / The Western News (Montana), April 7, 2023 -- The Lincoln County Amateur Radio Group is an ARRL Affiliated Club.

["Come help the Beaver Valley Amateur Radio Association celebrate its 100th anniversary"](#) / The Beaver County Times (Pennsylvania), April 8, 2023 -  
- The Beaver Valley Amateur Radio Association is an ARRL Affiliated Club.

["In The Age Of Social Media, Thousands Of Amateur \(HAM\) Radio Operators In Wyoming Still Use The Airwaves"](#) / Cowboy State Daily (Wyoming), April 8, 2023 -- Tom "Tex" Ritter, WY7KY.

["Brandon radio club boosting its signal"](#) / The Brandon Sun (Canada), April 10, 2023 -- The Brandon Amateur Radio Club is an ARRL Affiliated Club.

["Western NY ham radio operators prepare to help in emergencies"](#) / Spectrum News 1 (Western New York), April 3, 2023 -- The Buffalo Amateur Radio Repeater Association.

["UNCHARTED TERRITORY: New Braunfels doctor assists on 2-month expedition to Bouvet Island"](#) / The Herald-Zeitung (Texas), April 4, 2023 -- Mike Crownover, AD5A, Boerne, Texas.

["Veteran Allen County storm spotter readies volunteers"](#) / WANE -TV (Indiana), April 4, 2023 -- Jay Farlow , W9LW, of Fort Wayne, Indiana is Net Manager of the Allen County, Indiana SKYWARN Net and Assistant Emergency Coordinator for SKYWARN of the Allen County Amateur Radio Emergency Service. He is an ARRL Member.

*Arrl.org. 2023. ARRL Letter. [online] Available at: <http://www.arrl.org/arrlletter?issue=current> [Accessed 5 May 2023]*

# NARS Monthly Club Meeting

## April Club Meeting

In April, Mooneer Salem, K6AQ, discussed the options for digital voice radio. Mooneer covered many the history, benefits and drawbacks of several digital voice protocols / modes. An extensive demo and tutorial was provided for the FreeDV software.

Take a look at past presentations by viewing the club website at <http://www.w5nc.club/nars/index.php/club-info/technical-presentations>.

## Next Club Meeting

Our next club meeting will be May 19<sup>th</sup> at HCESD 16 Admin – 18606 Stuebner Airline Rd, Spring, TX 77379. We look forward to seeing you there!

## NARS General Club Meetings

NARS holds monthly club meetings where a variety of topics are presented from a number of guests. Come learn anything from antenna design, phasing, emergency response, and more!

Who: All club members, friends, or anyone interested in the Amateur Radio hobby

When: The Third Friday of the Month at 7:30pm

Where: HCESD 16 Admin, [18606 Stuebner Airline Rd, Spring, TX 77379](#)  
Zoom Conference Call, Meeting ID: 2815436502, Passcode: 123456

# Amateur Radio Activities

The “Amateur Radio Activities” feature of NARS News highlights various activities related to ham radio. Each issue provides a quick overview for those who may be interested in the learning new aspects of the amateur radio hobby.

## Demystifying Ham Radio Lingo: A Guide for Newcomers

Stepping into the world of ham radio brings forth a wealth of communication possibilities. However, for newcomers tuning into the ham radio band or checking into a repeater, the abundance of jargon can be overwhelming. To help, this article compiles a handy guide to help you navigate the common lingo you'll encounter on the amateur band.

### Common Terms

How many of the terms below have you heard? How many do you use?

Term	Meaning
73	Best wishes
88	Love and kisses or Hugs and Kisses
ATV	Amateur television. Sometimes called Fast Scan TV. Same as commercial TV.
Boat anchor	Old, usually BIG, radio equipment
Brick	A small, solid-state amplifier
Bug	A semi-automatic Morse code key
Bureau	A clearinghouse for QSL cards
Cans	Headphones
Chirp	A Morse signal with a varying tone
Clear	"I'm finished on the frequency, anyone else can use it"
Cloud warmer	An inefficient antenna that radiates straight up
CQ	A request for contact
CW	A mode for sending messages by Morse Code.
DX	Talking to stations very far away
DXpedition	A trip to a (usually) remote place to operate ham radio
Elmer	An experienced ham helping a newcomer
Hollow state	Tube equipment
Homebrew	Home made equipment
Lid	An inconsiderate operator
Logging	To record details of the contacts made for future reference. The log includes call signs, time, frequency, names, etc.
Magic Band	The 6 meter band (50-54 MHz)



Net	A group of stations who meet “on the air” at a specified time for a specific purpose.
OM, Old man	Any male ham (regardless of age), husband
Out	"I'm turning off my radio", but NEVER use "Over and Out"
Over	"It's your turn to talk, I'm listening"
Packet	A digital form of communications as in teletype but more reliable. Requires a computer, an interface box, and a radio transceiver.
Pile-up	Lots of stations calling one station at the same time
Pond	The Atlantic Ocean
Pound brass	Operate using Morse code
QSL Card	A written acknowledgment that a contact has been made by amateur radio between the two parties. QSL cards are usually of the postcard variety.
Rag chew	Shooting the breeze, just chatting
Reading the mail	Listening without transmitting
Rig	Ham radio equipment
Rock	a quartz crystal used for frequency control
Rock bound	Transmitter using crystals. Instead of tuning, you change crystals
RTTY	Radio teletype.
Schedule	A prearranged meeting “on the air” at a preset time and frequency.
Shack	The room where the amateur operator has his radio.
Sideswiper	A type of Morse code key that moves side-to-side
SK, Silent key	When referring to a ham, it means they died
SSB	Single side band. A form of voice communications.
SSTV	Slow Scan TV. A single frame shown like a still picture. Example: WX photo from satellite.
Tail gating	Transmitting quickly after another transmission
Ticket	Amateur radio license
TNC	Terminal node controller. The interface in packet between the computer and the transceiver.
Top band	The 160 meter band (1.8-2.0 MHz)
Transceiver	A transmitter and receiver in a single box.
Wallpaper	Awards and certificates
Work	Make contact with. Example: "I worked W5ALT on 10 meters"
XYL	Wife
YL	Young lady (girlfriend)

## Q-signals

Q-signals are a system of radio shorthand as old as wireless and developed from even older telegraphy codes. Q-signals are a set of abbreviations for common information that save time and allow communication between operators who don't speak a common language.

Here is a list of Q-signals as provided by the ARRL ([Click here](#)):

Q Code	Meaning
QRG	Your exact frequency (or that of _____) is _____ kHz.
	Will you tell me my exact frequency (or that of _____)?
QRL	I am busy (or I am busy with _____). Are you busy?
	Usually used to see if a frequency is busy.
QRM	Your transmission is being interfered with _____
	(1. Nil; 2. Slightly; 3. Moderately; 4. Severely; 5. Extremely.)
	Is my transmission being interfered with?
QRN	I am troubled by static _____. (1 to 5 as under QRM.)
	Are you troubled by static?
QRO	Increase power. Shall I increase power?
QRP	Decrease power. Shall I decrease power?
QRQ	Send faster (_____ wpm). Shall I send faster?
QRS	Send more slowly (_____ wpm). Shall I send more slowly?
QRT	Stop sending. Shall I stop sending?
QRU	I have nothing for you. Have you anything for me?
QRV	I am ready. Are you ready?
QRX	I will call you again at _____ hours (on _____ kHz).
	When will you call me again? Minutes are usually implied rather than hours.
QRZ	You are being called by _____ (on _____ kHz).
	Who is calling me?
QSB	Your signals are fading. Are my signals fading?
QSK	I can hear you between signals; break in on my transmission.
	Can you hear me between your signals and if so can I break in on your transmission?
QSL	I am acknowledging receipt.
	Can you acknowledge receipt (of a message or transmission)?
QSO	I can communicate with _____ direct (or relay through _____).
	Can you communicate with _____ direct or by relay?
QSP	I will relay to _____. Will you relay to _____?
QST	General call preceding a message addressed to all amateurs and ARRL members.
	This is in effect "CQ ARRL."
QSX	I am listening to _____ on _____ kHz. Will you listen to _____ on _____ kHz?
QSY	Change to transmission on another frequency (or on _____ kHz).
	Shall I change to transmission on another frequency (or on _____ kHz)?
QTC	I have _____ messages for you (or for _____).
	How many messages have you to send?
QTH	My location is _____. What is your location?
QTR	The time is _____. What is the correct time?

## CW / Digital Abbreviations

Morse code / digital abbreviations are used to speed up communications by foreshortening textual words and phrases, including the following:

Abbreviation	Matching voice procedure word	Explanation
DE ...	[THIS IS] <i>FROM</i>	Used to precede the name or other identification of the calling station
NIL	NOTHING HEARD	General-purpose response to any request or inquiry for which the answer is "nothing" or "none" or "not available" Also means "I have no messages for you."
CL	CLOSING	Announcing station shutdown
CQ	CALLING	General call to any station
CP ... ..	CALLING FOR	Specific call to two or more named stations
CS ...	CALLING STATION	Specific call to exactly one named station
CS?	WHO?	What is the name or identity signal of your station? In many contexts, the question mark is optional.
WA ...	WORD AFTER	
WB ...	WORD BEFORE	
AA ...	ALL AFTER	The portion of the message to which I refer is all that follows the text ...
AB ...	ALL BEFORE	The portion of the message to which I refer is all that precedes the text ...
BN ... ..	ALL BETWEEN	The portion of the message to which I refer is all that falls between ... and ...
C	CORRECT / YES / AFFIRMATIVE / CONFIRM	Answer to prior question is "yes".
N	NO / NEGATIVE	Answer to prior question is "no".
ZWF ...	WRONG	Your last transmission was wrong. The correct version is ...
QTR?	REQUEST TIME CHECK	Time-check request. / What is the correct time? (Time is always UTC, unless explicitly requested otherwise, e.g. qtr hst ?)
QTR ...	TIME IS	The following is the correct UTC in HHMM 24 hour format
BK	BREAK-IN	Signal used to interrupt a transmission already in progress
CFM	CONFIRM / I ACKNOWLEDGE	Message received (Same as r.)
WX ...	WEATHER IS	Weather report follows
INTERCO	INTERCO	International Code of Signals groups follow

## Prosigns

Procedural signs, or prosigns, are shorthand signals used in Morse code radio telegraphy procedure (and often in digital non-phone modes), for the purpose of simplifying and standardizing radio communication protocol. They are separate from Morse code abbreviations, which consist mainly of brevity codes that convey messages to other parties with greater speed and accuracy. Here are a few:

Prosign	Matching voice procedure word	Explanation
R	ROGER	Means the last transmission has been received, but does <i>not</i> necessarily indicate the message was understood or will be complied with.
K	OVER	Invitation to transmit after terminating the call signal.
AR	OUT	End of transmission / End of message / End of telegram.[a]
AS	WAIT	"I must pause for a few minutes." Also means "I am engaged in a contact with another station [that you may not hear]; please wait quietly."
AS AR	WAIT <i>OUT</i>	I must pause for more than a few minutes.
VE	VERIFIED	Message is verified.
?	SAY AGAIN?	When standing alone, a note of interrogation or request for repetition of the immediate prior transmission that was not understood. When ? is placed <i>after</i> a coded signal, modifies the code to be a question or request.
HH ...	CORRECTION	Preceding text was in error. The following is the corrected text.
HH AR	DISREGARD THIS TRANSMISSION <i>OUT</i>	The entire message just sent is in error, disregard it.
BT	BREAK	Start new section of message.
KA	ATTENTION	Message begins / Start of work / New message
SK		End of contact / End of work / Line is now free / Frequency no longer in use

Several sites also have extensive resources to de-mystify amateur radio jargon. Here are just a few:

- Ham Radio Glossary (ARRL.org): <http://www.arrl.org/ham-radio-glossary>
- Ham Speak – Know the Lingo (QRZ.com): <https://www.qrz.com/page/hamspeak.html>
- Ham Radio Lingo You Must Know (CrunchReviews.com): <https://www.crunchreviews.com/blog/ham-radio-lingo-you-must-know/>

As a new ham checking into a repeater or exploring the ham radio band, immersing yourself in the world of ham radio lingo is essential. By understanding these common terms and phrases, you'll find it easier to communicate, engage in conversations, and form connections with fellow enthusiasts. Remember, the ham radio community is known for its welcoming nature, so don't hesitate to reach out for guidance and support. Embrace the adventure, enjoy the vast possibilities of ham radio, and let the jargon become your gateway to exciting communication experiences.

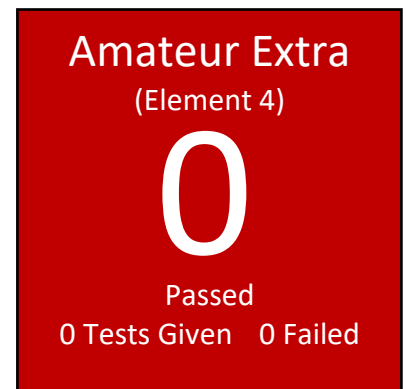
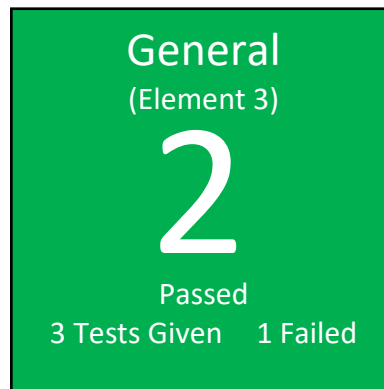
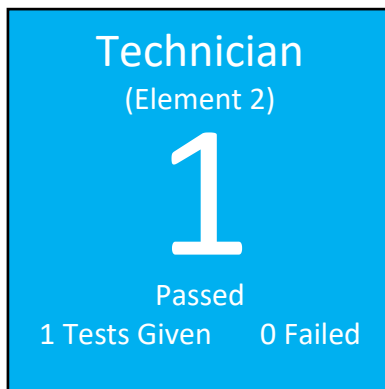


# VE Sessions and Results

PROVIDED BY SHEREE HORTON, WM5N

## Attendees

On Saturday, April 22, 2023, a VE Test Session was held at Klein Fire Station #3 in Spring, Texas. During the testing session, 3 candidates took 4 tests.



## Congratulations!

Congratulations to the following for passing their new license exams<sup>1</sup>:

- Brian Ruggiano – Technician

Congratulations to the following for passing their upgrade exams:

- Samuel D Cross KJ5ADQ – Upgrade to General
- Willie G Vick KI5SBF – Upgrade to General

<sup>1</sup> Successful candidates will only receive their **NEW** licenses if they pay the \$35 fee to the FCC within 10 days of receipt of their notification emails. They will have to request the ARRL VEC to resubmit their paperwork if they miss the 10-day deadline. They do **NOT** have to retest.

## Pre-registration for Testing Sessions

To pre-register for an upcoming testing session, you can use one of the following links:

HamStudy.org page link: <https://hamstudy.org/sessions/arri/77070/inperson>

The next session will be May 20, 2023. Please visit [www.w5nc.net](http://www.w5nc.net) for the announcement.

## Thanks and Gratitude

Thanks to the Exam VE's in attendance:

- Michael Robinson KI0DE<sup>2</sup>
- Bob Ewers K9HOU
- Brett Hebert KG5IQU
- Paul Owen N5NXS
- Brandy Lang WE9L
- Vicki Owen AC5EW
- Michael Panico KG5BBJ

<sup>2</sup>Assistant Session Manager

## VE Session Guidelines

If you have a temperature or feel ill – DO NOT attend.

- Tables and chairs will be arranged to meet social distancing. DO NOT MOVE THEM.
- Wear masks if you are not fully vaccinated or feel the need to wear them.

Please send an email to either of the following if you plan on attending the test session:

Sheree Horton - [wm5n@arri.net](mailto:wm5n@arri.net) or [vec@w5nc.net](mailto:vec@w5nc.net)

## Volunteering and Becoming a Volunteer Examiner

Anyone who wants to observe and/or participate in a session is always welcome. Please let Sheree Horton know if you want to learn more about becoming a volunteer examiner.

## Did you know...

NARS now has the ability to run computer-aided tests through [Ham.Study](https://hamstudy.org). Computer-aided tests provides many benefits, including the ability to make the tests easier to administer, quicker to get results, easier for many test-takers, and many more!

## NARS Membership – Due Dates and More



Did you know that you can find your membership expiration date on the club website? Simply click the “Membership Reports” link on the home page or visit this link: <http://www.w5nc.club/nars/index.php/2014-03-30-18-23-31>. Find your name in the list and look at the “Expires” column of the table!

## Renewing Club Members

### New Club Members

Welcome to the following new members of NARS!

- Ross Baker, N5HHS

### Renewing Club Members

Thank you to all the members who renewed their NARS membership this past month:

- Kirc Breden, N5XJB
- Tom Davis, KB9KY
- Kyle Jarnagin, KD5QHD

## New General Question Pool Released for Ham Radio Licensing Effective July 1, 2023

The National Conference of Volunteer Examiner Coordinators' (NCVEC) Question Pool Committee (QPC) has released the 2023 - 2027 General Class FCC Element 3 Syllabus and Question Pool to the public. The new General Question Pool is effective July 1, 2023, through June 30, 2027.

The new pool incorporates some significant changes compared to the 2019 - 2023 version. Its 432 questions were modified slightly to improve wording and to replace distractors; 51 new questions were generated, and 73 questions were eliminated. This resulted in a reduction of 22 questions, bringing the total number of questions in the pool down from 454. The level of difficulty of questions is more balanced, and the techniques and practices addressed have been updated.

The pool is available as a Microsoft Word document and PDF. The single graphic required for the new General Question Pool is available within the documents, or separately as PDF and JPG file formats.

The newly revised pool must be used for General-class license exams starting July 1, 2023," said ARRL VEC Manager Maria Somma, AB1FM, who is a member of the NCVEC Question Pool Committee. "New test designs will be available to ARRL Volunteer Examiners on that date. The ARRL VEC will supply its officially appointed, field-stocked VE teams with new General exam booklet designs around mid-June."

General class examination candidates preparing for their exams using the 9th edition of The General Class License Manual, and/or the 6th edition of ARRL's General Q & A are encouraged to test by, or before, June 30, 2023. New editions of ARRL licensing publications will be available in May, for exams taken on, or after, July 1, 2023.

# Training and Education

## NARS

NARS Member Articles and Tutorials - <http://w5nc.net/index.php/2014-03-31-00-54-20>

## ARRL

ARRL Online Course Catalog - <http://www.arrl.org/online-course-catalog>

ARRL Emergency Communications Training -  
<http://www.arrl.org/emergency-communications-training>

ARRL Webinars - <http://www.arrl.org/ARRL-Learning-Network#schedule>

Exam Review for Ham Radio - <http://www.arrl.org/examreview>

Find an Amateur Radio License Class -  
<http://www.arrl.org/find-an-amateur-radio-license-class>



## Free Study Guides

A [study guide](#) for Technician license preparation, Dan Romanchik, KB6NU

A [study guide](#) for Technician license preparation on the Inland Empire VHF Radio Club website, Jack Tiley, AD7FO (Click on "Training Links" and go to the Technician training link)

## Online Video/Audio Courses

[Online Technician license exam self-study course](#), Fred Benson, NC4FB - The purpose of the resources developed for this course is to provide candidates in geographical areas that do not provide classes and candidates who cannot attend a class with the means to prepare for the Technician license exam. The materials cover all questions in the question pool with explanations, sub element tests, and sample license exams. Help is available upon request via email.

Benson also offers a ["kid friendly" self-study course](#) and a self-study program especially designed for [emergency services personnel](#).

"The Ham Whisperer" [Video Course](#), Andy Vallenga, KE4GKP – This course is based on the FCC question pool sequence to assist with Technician license preparation.

[A Self-Study Video Course](#), Dave Casler, KE0OG – This course provides a guided self-study [video course](#) based on ARRL's Ham Radio License Manual curriculum.

[Online Technician License Preparation Course](#) – Chris Johnson, N1IR



## Study Tools

[HamStudy.org: Cutting edge amateur radio study tools](#) - Free ham radio flash cards, practice tests, and question pools as well as introduction to ham radio and explanations for questions.

[HamTestOnline](#) – Study Tips for the Ham Radio License Exams

[HamExam.org](#) - Free Amateur Radio Practice Tests with Flash Cards

[eHam.net Ham Radio Practice Exams](#)

## Paid Resources

[W5YI Group](#) - Your Resource for Ham Radio and Commercial Radio Licensing

[HamRadioPrep](#) - Enroll in Ham Radio Prep, the industry’s #1 online test prep and training program, and pass your FCC Amateur Radio License exam on the first try - or your money back.

[HamTestOnline](#) - Study for your Ham Radio License Exam!

## Upcoming Skywarn Spotter Training for 2023

Training is free and open to the public. More dates to be added soon. For more details, please see [SKYWARN - Schedule \(weather.gov\)](#).

Date/Time	Location	Point of Contact
<b>Advanced</b>  October 17 <sup>th</sup> – 5:30pm – 7:30pm	Walker County Storm Shelter Huntsville, TX	

### Exam Practice Answers

**Technician:** T2C01 - C. FCC rules always apply

**General:** G3B10 - A. 1,200 miles

**Amateur Extra:** E7B16 - D. Transmission of spurious signals

## Of Interest to the Club

### Houston Local Traffic Net

The Houston Local Traffic Net (HLTN) was formed July 14, 2020 in preparation for ARRL Field Day 2020. Originally called the Fort Bend County Traffic Net, the HLTN has been in continuous operation since then.

The nets ran on Monday nights for one hour with training sessions during the net. Because of the volume and interest in the Traffic Net, on April 15, 2021 an additional session was added on Thursday nights for 30 minutes and in 2020 the time was increased for up to an hour to also accommodate training.

The Houston Local Traffic Net currently meets from 6:30pm – 7:30pm twice a week handling National Traffic System (NTS) traffic (Radiograms) into and around the Houston Metro area and also includes, time permitted, traffic handling/training.

Monday's net: 146.940 (-) PL 167.9

Thursday's Net: 147.000 (+) PL 103.5

Backup repeater for both:

- 146.660 (-) PL 100.0,
- 444.375 (+) PL 100.0
- Echolink Node W5NC-R (all linked)

A complete schedule of Area Traffic Nets is located on the HLTN.org 'Nets' web tab with the times and frequencies. Visitors are welcome and encouraged to check-in to listen and learn this important Amateur Radio skill.

Direct any questions, via phone or email, about the Houston Local Traffic Net, Radiograms, and Traffic handling to: Sheree Horton WM5N, ARRL South Texas Section Traffic Manager

### GHSN monthly Simplex Propagation Net

Beginning January 2022, the [Greater Houston Simplex Network](#) will return to its regular schedule of the 4<sup>th</sup> Thursday evening of the month, with 6:15pm for the Zoom meeting and 7:00pm for the beginning of the net. Simplex frequencies are 146.540 MHz.

I would also like to restart the relay nets for the 2nd week of each month, so I need volunteer(s) to help out as Net Control Operator. I am just swamped with developing our cool new propagation application. Please contact me if you can help with this. The script is fully developed, and can be found on [the website](#).

Contact Mark - [N5PRD@yahoo.com](mailto:N5PRD@yahoo.com)

# Calendar

## Club Activities and Events

Monthly Club Meeting – May 19, 2023 - HCESD 16 Admin – 18606 Stuebner Airline Rd, Spring, TX 77379

VE Test Session – May 20, 2023 – [Klein Fire Station #3](#) - Check-in will start at 8:30am with testing lasting from 9:00am - 11:30am. All testing activities will be completed by noon.

The full NARS calendar can be viewed at: <https://w5nc.groups.io/g/main/calendar>

## Social Events

### Lunch Break – North

Take a break with fellow radio operators and enjoy a lunch together!

Locations are announced weekly on the NARS email reflector!

### Lunch Break – Medical Center

Near the Medical Center and want to take a break with fellow radio operators and enjoy a lunch together?

Watch the NARS email reflector for details!

### Saturday Breakfast

Saturdays at 7 am Broken Yolk Café, 16803 Stuebner Airline Road, Spring, TX 77379

### Monday Lunch (Taildraggers Lunch)

Mondays at 11 am; Aviator's Grill at Hooks Airport Terminal

## Did you know...

NARS has a social media presence! Thanks to Sam Labarbera, N6HB, we have a Facebook page for those who would like to follow us there. Visit the [W5NC Facebook page](#) and join! It is open to ham radio operators, so there is a short quiz to qualify new members.

We also have a Twitter feed. Follow us on [https://twitter.com/nars\\_w5nc](https://twitter.com/nars_w5nc)

## Hamfests and Conventions

May 19 - 21 | [Hamvention](#), ARRL Great Lakes Division Convention, Xenia, Ohio

June 2 - 4 | [SEA-PAC](#), ARRL Northwestern Division Convention, Seaside, Oregon

June 23 - 25 | [HAM RADIO](#), Friedrichshafen, Germany

September 23 | [Red River Radio Amateurs' Hamfest](#), ARRL Dakota Division Convention, West Fargo, North Dakota

October 20 | [Pacificon](#), ARRL Pacific Division Convention, San Ramon, California

## Contests and Radiosport

*ARRL Contest Corral*

April 2023 - [http://www.arrl.org/files/file/Contest%20Corral/2023/April%202023%20Corral\(1\).pdf](http://www.arrl.org/files/file/Contest%20Corral/2023/April%202023%20Corral(1).pdf)

May 2023 - <http://www.arrl.org/files/file/Contest%20Corral/2023/May%202023%20Corral.pdf>

For details on ARRL contests, please see <http://www.arrl.org/contest-calendar>.

# NARS Club Officers and Information

## Board Officers with Voting Privileges

President: Ron Matussek, WA6TQH, 713-825-9606, [officers@w5nc.net](mailto:officers@w5nc.net)

Vice President: Paul Kent, KI5FJS, [officers@w5nc.net](mailto:officers@w5nc.net)

Treasurer: Tom Hoherd, KK5YU, 281-370-2941, [treasurer@w5nc.net](mailto:treasurer@w5nc.net)

Secretary: Brandon Rogers, K5BLR, 713-294-6630, [officers@w5nc.net](mailto:officers@w5nc.net)

Director: Rich Jones, W5VEK, [officers@w5nc.net](mailto:officers@w5nc.net)

Director: Sam Labarbera, N6HB, [officers@w5nc.net](mailto:officers@w5nc.net)

## Board Non-Voting Associate Members

Administrative Secretary: Neal Naumann, N5EN

Social Media Liaison: Sam Labarbera, N6HB

Newsletter Editor: Brandon Rogers, K5BLR

Public Information Liaison: Sheree Horton, WM5N

ARRL/VEC Liaison: Sheree Horton, WM5N

Repeater Team Lead: Marty Fitzgerald, W5MF

Webmaster: Bill Buoy, N5BIA, [webmaster@w5nc.net](mailto:webmaster@w5nc.net)

Trustee: Paul Owen, N5NXS

## Club Nets

**DMR Weekly Net** – Every Tuesday at 7pm. Tune in on Talkgroup 3146211 for information on configuring codeplugs, see the DMR pages on the Club website (<http://w5nc.net>) or contact a club Elmer. Sam Labarbera, N6HB, coordinates this Net.

**The Weekly Wednesday Evening Net** - Every Wednesday at 8:00 pm. Join us on one of the W5NC repeaters: 146.660 MHz, -600kHz offset, PL 100.0 - wide area centered on downtown Houston and/or 444.375, + 5 MHz offset, PL 100 best in the Spring / Klein area. You can also join from anywhere in the world by connecting to EchoLink node W5NC-R. Kirc Breden, N5XJB, coordinates this Net.

## Repeaters

For information on NARS-managed repeaters, please see the club website at <http://w5nc.net/index.php/club-info/repeaters>

### Did you know...

that NARS has a messaging service, called Groups.io, that allows you to connect with a giant group of experts, club members, and resources. Get more information on our club website at <http://w5nc.net/index.php/club-info/email-reflector-groups>