Winter Field Day is a communications exercise. WFD is held on the last full weekend in January. WFD can be worked from the comfort of your home or in a remote location. You can participate by yourself or get your friends, family, or whole club involved. Winter Field Day is open to participants worldwide. Amateur radio operators may use frequencies on the HF, VHF, or UHF bands and are free to use any mode that can faithfully transmit the required exchange intact. Similar to the ARRL’s Field Day, bonus points are earned in several ways, including using non-commercial power sources, operating from remote locations, satellite contacts, and more.¹

So why are we talking about Winter Field Day? Well, why not? It’s another great opportunity to practice amateur radio skills and verify how prepared you are for operating under various conditions. Visit the website; https://winterfieldday.com/index.php#hero to review the history, rules, and rationale behind the event.

Several club members are planning to operate from Wildcat Mountain on WFD. They’ll be using the club K4JJ call sign. Feel free to join them if you’re up to trek to North Georgia for the day. You can find location information at these links: Wildcat Mountain summit, or https://www.sotamaps.org/tracks/summit/W4G/NG-020, along with the parking location: and site visit signup sheet here. The signup sheet will let the folks at the summit location know when you might arrive, so please use it if you’re planning to be there.

You can also operate from home. Check the WFD Rules to be sure of how to best take advantage of operating from your QTH and allocating your score to the Club Challenge. See the Club Challenge info here, and be sure to list the club entry as described in the Club Challenge documentation. NFARL should be entered as “North Fulton ARL” and use the NF4GA call sign.

¹) https://winterfieldday.com/
President’s Corner / Mike Riley KN4OAK

It is January 2023 and already looking like the year will be full of exciting challenges for North Fulton Amateur Radio League. We’re working to further our focus on youth and education through connections with ARISS, local schools, scientific and technology related organizations through special program participation and sponsorships. We’re also investigating new ideas to increase club member involvement in special interest groups and topics. These efforts are geared to helping the club to better serve the diverse interests of its membership.

Part of the formula that makes our club successful at events like ARRL Field Day, the Georgia QSO Party, HamJam, and other events is having members with skills and knowledge which they readily share with others. This behavior, along with the networking and communications that go along with it, provide for insights into membership activity interests and preferences.

Leadership, through acting to account for club member interests, while also helping to ensure our club remains capable of operation to meet its chartered purpose, doesn’t mean one needs to be an elected official in the club. Service provided through participation functional operating tasks is as equally valued as that provided to special events and programs. I feel humbled to have been selected to serve as our club President, but it is primarily because I want to be helpful in enabling club members to enjoy and benefit from their participation in our club. Anyone can do the same. Just take a minute or so and think about what interests you in the club and how you might make it more enjoyable or easier to help others do so as well.

Individual engagement in the club can be satisfying and lead others to enjoy their participation too. I encourage you to let other club members know what you like to do and how the world of amateur radio helps you. Ask them to share the same type of information with you and look for opportunities to provide the same or similar service to others by getting involved or starting to take on an underserved role. Please feel free to let the elected and appointed club members know what you see as opportunities to serve in whatever way you think will benefit others. I’m looking forward to identify additional ways to increase my level of engagement and would very much appreciate your help!

De and 73,

Mike Riley, KN4OAK
NFARL 2023 President

Congratulations January VE Exam Candidates! /Wes Lamboley, W3WL

Once again, NFARL wishes congratulations to the three candidates who passed their Amateur Radio license exams January 14, 2023! The test session was held at Slope’s Barbeque, 34 E Crossville Rd, Roswell, GA 30075. Our thanks goes to the staff and management at Slope’s for their gracious hospitality through providing a location for us to hold the test. Special recognition goes to our VE Team, who once again executed a professional session.

Please congratulate Keith, Denys, and Tom when you see them again!

<table>
<thead>
<tr>
<th>Name</th>
<th>Call Sign</th>
<th>License Level</th>
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</thead>
<tbody>
<tr>
<td>Keith Miller</td>
<td>KQ4EHD</td>
<td>Amateur Extra</td>
</tr>
<tr>
<td>Denys Metelenko</td>
<td>W4AHI</td>
<td>General</td>
</tr>
<tr>
<td>Thomas Talen</td>
<td>KQ4FOR</td>
<td>Technician</td>
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Imagine you are a middle school aged child, maybe between the ages of 8 to 14 years old. One day your parents, who just happen to be involved in amateur radio, decide to take you with them to an event geared toward technical interest areas within amateur radio. This event is identified as a “TechFest”. What would you be thinking? Would you be excited to go and investigate what it was about? Or would you be wondering how long you be stuck there while your folks were engaged in conversation that you quickly lost interest in? What if there was nothing for you to do there?

Perhaps some of the kids who showed up at the NFARL kit building tables during the GARS 2023 TechFest on January 14, 2023, may have been having some of these thoughts. What we can tell you is that by the time they left the NFARL tables, they could show people what they had accomplished in the hour or so they were there. Each of them left the booth with a small electronic kit which they had assembled and demonstrated its function to their parents and siblings! Most of them seemed very satisfied that they had done so! Several could even tap out their name in Morse code using the CPO kit they had completed. What a way to spend a couple of hours seeing what amateur radio involves!

Each of the kids (and adults) who participated in the kit building exercise had the opportunity to select one kit to build from a choice of three. We had a small FM radio, a digital clock, and the NFARL CPO kit to choose from. NFARL club members provided soldering irons, solder, helping hands / circuit hard holders, extension cords, workstation placemats, tools and safety glasses for each of the youngsters to use. One to one coaching was provided to each “student” by a NFARL “Elmer” so they could assemble their kit and learn a little about it as they went. There were even a couple cases where the student turned into the Elmer and the NFARL “Elmer” into the student. Kids are pretty smart these days!

Special thanks goes to Ted Macklin K4MPPM, Mike McCarthy KQ4EFL, Dave Bisciotti KO4USA, Fred Ackley W4FRA, Wayne Garber KE4WYU, John Norris N4IHV, Wes Lambolely W3WL, Tim Lemmon WK4U, Warren Merkel KD4Z, and Steve Randall KO4VW for helping out to make this an enjoyable and successful event!
FT8 has been a thrill ride! I have a very challenging apartment antenna situation. I have had dipoles, random wires, and verticals all with various amounts of success. It certainly hasn’t been an ideal situation but with the very helpful NFARL Discord group I have navigated circumstances quite well. I have completed Worked All States (WAS), chased almost 100 Parks on the Air (POTA), and I am halfway through DX Century Club (DXCC) using FT8 alone. But, more than anything else, I am most proud of my QSL card collection. Sending mail to another ham is a personal touch to a mode that can feel very impersonal. I have received QSL cards, stamps, letters, and even a poster from hams all around the world. I signed up for USPS Informed Delivery, so I get pictures of my mail in my email inbox every day so I know what to look forward to and I have pretty much timed the schedule of our mail lady. Mail is delivered from 11:30am to 12:00pm every day and that is typically the highlight of my otherwise seemingly mundane workday.
I sent my QSL card to K5UDO in Utah, and he didn’t have QSL cards, so he took a sheet of printing paper and with a pen and marker and drew one then cut it with a pair of scissors. Apparently, this is the second one he’s done. It’s one of my favorites.

K9WZB, Garry, from Arizona likes to share his hometown spirit by explaining that the London Bridge from the nursery rhyme “London bridges falling down, falling down, falling down…” was falling down but now they took it apart and rebuilt it there. So let everyone know it’s fine now.

I have DX QSL cards from Japan, Azores, Belgium, Germany, Balearic Islands, Canada, Poland, Argentina, Bahamas, Switzerland and the list continues to grow. I wanted to share a few tips that I’ve learned while collecting QSL cards.

Some tips sending and receiving QSL cards
- Do not use your call sign on international envelopes. Some countries' postal services aren't as trustworthy as ours in the United States and ham radio mail is known to have money inside of it.
- Use an A4 envelope to stick inside of an A7 envelope for any Self Addressed Envelopes (SAE) or Self Addressed Stamped Envelopes (SASE). It’s easier than trying to stick same size envelopes into one another. It also ensures the envelope lays flat and doesn't look like there may be cash in it.
- Regular Forever Stamps are a lot cheaper from Amazon. Regular stamps will get your mail anywhere in the United States, including Alaska, Hawaii and Puerto Rico. Sometimes I will send mail from state-to-state using just a couple of cents. There is a loophole in the law that allows you to send mail for $0.02 using the deprecated General Post Office. You can buy $0.02 stamps from the USPS website, but I typically use it to leverage the nostalgia of using vintage stamps.
It’s kind of fun to use vintage stamps to mail things. You can find more information from the QRZ page of N2FY.

- To send a QSL card internationally, you will need a Global Forever stamp. I’ve found the cheapest place to get Global Forever stamps is directly from the post office. You can order them online at USPS.com or go into your local branch and they will have them too. You can buy single Global Forever stamps from your post office but if you order them online, they come in sheets of 10. At the time of writing, they are $1.40 each.

- For international QSOs, always read their QRZ page for specific QSL information. Some contacts use QSL Managers, and in that case, you will need to fill in your QSL card as you normally would but send the envelope to the QSL card manager’s call sign address. Typically, $2 to $3 should be included along with your QSL card and a Self-Addressed Envelope (no stamp). They will give you instructions.

- There are a variety of ways to create a QSL card. I sent my idea to Tim at Custom QSL and he did a little bit of graphic design, sent me the proofs, and they were printed beautifully without any problems what-so-ever. I will use him again in the future, but I have also received 4x6 home printed post cards on printing paper, cardstock, or even photo paper. The standard QSL card size is 5.5” x 3.5”, a little less than the normal postcard size of 6” x 4”.

- If their QSL instructions say "No SASE required" they may have a non-standard size QSL card that wouldn’t fit in your enclosed return stamped envelope. Or they could just be being nice, but you really don’t know. What I typically do is send them a Self-Addressed Envelope without the stamp to not waste the stamp if their QSL card is too big but at the same time make life a little easier for them if they are just trying to be nice.

I am having a lot of fun with sending and receiving QSL cards. My new adventure will be learning CW and I cannot wait to add those QSL cards to my collection.

73s,
Tyler Wall
KO4UUT

North Fulton ARES Updates / Bill Largin, KN4DLE

Return to meeting in Person- The NF ARES group is meeting in person again. At our first meeting back, we had 15 people join in person and another eight online. Our next meeting is on February 14th. Please join us in person or online. Check the NFARL website for more details.

GA ARES State Meeting for 2023 is on February 11, 2023 at the Georgia Public Safety Training Center in Forsyth, GA. This will be a full day of training and meeting other ARES members from around the state. For more information, go to https://www.gaares.org/

The 2023 Publix Atlanta Marathon is scheduled to return to downtown Atlanta this year on Sunday, February 26, 2023. Once again, NFARES has been invited by the Atlanta Track Club to provide communications throughout the course and on the SAGs. The Atlanta Radio Club does an excellent job organizing communications for this event. It is a great way to practice your Radio skills while serving the community. For more information: https://www.atlantatrackclub.org/2023-publix-atlanta-marathon-weekend

If you would like to learn more about ARES or any of the events we mentioned, please feel free to contact me. Bill Largin, Emergency Coordinator / North Fulton, KN4DLE
I have a couple pieces in my shack that I use regularly, an MFJ tuner and a Dummy load with meters. Both meters were dark as the bulbs had failed, even with the dummy load being only about a year old. I wanted to get them working so I took one apart to see what it was. What I found was an incandescent 12 volt “Grain of Wheat” style bulb. I couldn’t tell what current it was supposed to draw as they had all failed so I really didn’t know what to order.

I had some LEDs left from an LED strip I used to help the lighting in my 3D printer. So it occurred to me I might be able to use one of those. I carefully cut the LED away from the strip and identified the polarity with my ohmmeter which actually lit the LED dimly. I carefully soldered on a couple of resistors to match the voltage and to become leads for the LED.

These resistors came out to be about 2K ohms total for the brightness that seemed good to me. I could have use a single resistor but the two 1K resistors provided leads to attach the power to. They work great, are very cool running and provide nice light.

Hopefully they will last longer than the bulbs they replaced.
Hardware

Outdoor repairs will take place in rainstorms or snowstorms. In the dark. When it’s windy. When it’s freezing cold or unbearably hot.

When you measure something with probes, the meter will read backwards. But, Murphy’s law has a time constant. If you reverse the probes at the last possible moment before connecting, the meter will read correctly. But you have to be fast!

Murphy’s Law of non-reciprocal outcomes: If it’s right it will be wrong. If it’s wrong it will be wrong.

Difficult repair tasks requiring concentration will be interrupted to repair tools.

Transmission lines are always a foot too short. This also applies to antenna wire, line cords, RS-232 cable, etc.

The better your antenna party is organized (beer purchased, pizza ordered), the more likely the key guy, the one bringing the climbing belt, will be a no-show.

Handbooks are either too thick or not thick enough to even out the leg of the operating table.

Resistor and capacitor markings occasionally do not follow the conventions.

You don’t have the fuse you need.

If it’s breakable it will break at the last step of installation.

The tip on your soldering iron will fail when you need it most. It does not matter what type of soldering iron.

Your major manufacturer’s service department is backed up for four months.

Radio Clubs

Last month some of the guys parked on the grass. The last guy out didn’t put the chairs away. We have lost our meeting room.

The guy responsible for donuts did not show. The coffee was cold, weak and we ran out.

The presenter was 45 minutes late and not prepared.

Nobody will run for office.

Dues are $5 per year. There are complaints that’s too much.

DX

The station you worked for the honor roll does not QSL.

The card you received has a mistake. You can’t get another.
DX continued-
RFI noise comes and goes in sync with rare DX.
Your distance away from home (and your rig) is proportional to the rarity of the DX.
Shortly after the DX’pedition goes QRT, your QSO disappears from the log.

Presentations
200 words per vugraph, yellow type on white background, no pictorials.
Comic Sans.
45 minutes allocated, 90 minutes taken to explain 20 minutes of material.
Most of what was presented was wrong. Now what?
Computer will not read the file. Computer will not talk to the projector.
Microphone broken.
Batteries in wireless microphone are dead.
Fire alarm interrupts half-way through.
Presentation on “The Effect of Non-Linear Manifolds in Hilbert Space on 24 GHz band propagation” not well received.

Operating
“You are on the list.”
“He gave you 3/1, good contact.”
“I’m new to ham, can you help me do a MARS mod?”
“Please copy.”
“This frequency has been in use since 1957, thanks for asking.”
“Just replaced my 3-tube 77SX with this OM4000.”
“Rig here has the filters removed for eeeSSB.”
Just got awards from DARC (took 16 weeks) and from ARRL (took 16 months).
“Microphone here is a Loudenboomer 12,000, the one with the three stage preamp. It’s feeding a W9HI-FI-WHY equalizer/compressor/noise gate/parametric filter/clipper. It doesn’t sound good? It must be your receiver.”

73,
Hal N4GG
Extra Extra! / From the Extra Class Question Pool

New info for Technicians and Generals and a refresher for Extra Class Licensees!

E2D05-
What is one advantage of the JT65 mode?
A. Uses only a 65 Hz bandwidth
B. The ability to decode signals which have a very low signal-to-noise ratio
C. Easily copied by ear if necessary
D. Permits fast-scan TV transmissions over narrow bandwidth

See answer on the last page!

The new Amateur Extra-class license examination question pool, effective from July 1, 2020, through June 30, 2024, has been released and is available at the National Conference of Volunteer Coordinators (NCVEC) website. Note the new Technician class license examination question pool is effective July 1, 2022.

Ian NV4C and his team hold license test sessions on the second Saturday of each month. For more information including upcoming test dates, click here.

Contest Corner

These are some contests and events besides the “routine K1USN, CWops, and other organizational events” scheduled to occur the near future

<table>
<thead>
<tr>
<th>Contest Name</th>
<th>Time &amp; Date</th>
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<tbody>
<tr>
<td>Australia Day Contest</td>
<td>2200Z, Jan 25 to 1000Z, Jan 26</td>
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<tr>
<td>AWA Linc Cundall Memorial CW Contest</td>
<td>2300Z, Jan 25 to 2300Z, Jan 26 and 2300Z, Jan 29</td>
</tr>
<tr>
<td>+ Winter Field Day</td>
<td>1900Z, Jan 28 to 1900Z, Jan 29</td>
</tr>
<tr>
<td>VHF-UHF FT8 Activity Contest</td>
<td>1700Z-2100Z, Feb 1</td>
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<tr>
<td>Vermont QSO Party</td>
<td>0000Z, Feb 4 to 2400Z, Feb 5</td>
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<tr>
<td>10-10 Int. Winter Contest, SSB</td>
<td>0001Z, Feb 4 to 2359Z, Feb 5</td>
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<tr>
<td>Minnesota QSO Party</td>
<td>1400Z-2400Z, Feb 4</td>
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<tr>
<td>British Columbia QSO Party</td>
<td>1600Z, Feb 4 to 0359Z, Feb 5 and 1600Z-2359Z, Feb 5</td>
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<tr>
<td>+ YLRL YL-OM Contest</td>
<td>1400Z, Feb 11 to 0200Z, Feb 13</td>
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<td>+ CQC Winter QSO Party</td>
<td>0100Z-0259Z, Feb 13</td>
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<tr>
<td>+ ARRL School Club Roundup</td>
<td>1300Z, Feb 13 to 2359Z, Feb 17</td>
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<tr>
<td>+ ARRL Inter. DX Contest, CW</td>
<td>0000Z, Feb 18 to 2400Z, Feb 19</td>
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<tr>
<td>+ South Carolina QSO Party</td>
<td>1500Z, Feb 25 to 0159Z, Feb 26</td>
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<td>+ North American QSO Party, RTTY</td>
<td>1800Z, Feb 25 to 0559Z, Feb 26</td>
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<td>+ NA Collegiate Championship, RTTY</td>
<td>1800Z, Feb 25 to 0559Z, Feb 26</td>
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<tr>
<td>+ North Carolina QSO Party</td>
<td>1500Z, Feb 26 to 0100Z, Feb 27</td>
</tr>
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</table>
NFARL Upcoming Events and Dates

- **Every Sunday — NFARES net** - 8:30 PM - 147.06 MHz (+) PL 100
  All licensed hams are welcome, you do not need to be an ARES member! Check [NFARES.org](http://NFARES.org) for more information.

- **Every Monday — Tech Talk** - 8:30 PM - 145.47 MHz (-) PL 100
  NFARL's flagship technical based “non check-in” net. The net is always better when using the web based chat room (Discord) but Internet is not required to join the net. Check [NFARL Nets](http://www.nfarl.org/Nets) for more information and “how to”. Here’s the link to the NFARL server on Discord web app [https://discord.gg/spr2a9D](https://discord.gg/spr2a9D)

- **Every Wednesday — Hungry Hams Lunch Bunch** - 11:15 AM
  Location: Slope’s BBQ, 34 East Crossville Road, Roswell, GA 30075
  (770) 518-7000
  *Dining Room is OPEN. Get Take Out if you can’t stay!*

- **Every Thursday — YL Net** – 8:00 PM - 9:30 PM - 145.47 MHz (-) PL 100
  Check NFARL Nets [website](http://www.nfarl.org/Nets) for “how to.” This is a great opportunity for YL’s to get on the radio with other YL’s! OM’s (guys) are welcome to listen in to this YL net.

- **Every Wednesday — CW CHAT** – 8:00 PM on ZOOM.
  **New meeting link and credentials:**
  [https://us06web.zoom.us/j/84722087419?wd=VlN2d0xvQVhKcDIUL0R4N1hQMTQ2UT09](https://us06web.zoom.us/j/84722087419?wd=VlN2d0xvQVhKcDIUL0R4N1hQMTQ2UT09)
  Meeting ID: 847 2208 7419; Passcode: CW-CHAT

- **Second Tuesday — NFARES Meeting - February 14, 2023** *Now in person & online!*
  Check [NFARL.org](http://www.nfarl.org) and [NFARL@groups.io](mailto:NFARL@groups.io) for more information.

- **Second Saturday – VE Testing - NFARL February 11, 2023 session**: 8:30 - 10:30AM  Slope's BBQ, 34 Crossville Road, Roswell, GA 30075.  Seating will be limited to 20 - preregistration is required.  Registration is by email to Ian NV4C; registration opens 2/1/2023, 5:00 PM ET and closes 2/8/2023, 11:59 PM ET.  [Click here for more information](https://www.winterfieldday.com/downloads/WFD-Club-Challenge-2023.pdf).

- **Fourth Tuesday – NFARL Executive Team Meeting** - January 24, 2023, 7:00 PM.
  *Online meeting only*— monitor website and NFARL Groups.io reflector for updates.

- **NFARL Club Meeting**— Tuesday, February 21, 2023— 7:00 PM  Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005.  The facility’s doors will open at 7:00PM.  Our meeting will begin at 7:30PM and should conclude by 9:00PM.  Our meeting topic is: *Fulton County Emergency Services Trunked Radio System*. Our presenter is Erik Bagby, N4NXD


- **41st Dalton Hamfest**— Saturday, February 25, 2023  8AM— 2PM, Location: North Georgia Ag Fairgrounds, 500 Legion Drive, Dalton, Georgia 30721. $5 Admission (good for prize drawings)
# Contact Us

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<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Email</th>
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<tbody>
<tr>
<td>President</td>
<td>Mike Riley</td>
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<tr>
<td></td>
<td>KN4OAK</td>
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<td>Vice President</td>
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<td></td>
<td>KO4VW</td>
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<td>W4MSA</td>
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<td>Treasurer</td>
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<td>Wes Lamboley</td>
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<tr>
<td>Mentors / Elmers</td>
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<tr>
<td>2023 Field Day Chair</td>
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<tr>
<td>Scout Coordinator</td>
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<td>Help Wanted!!</td>
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**North Fulton Amateur Radio League**

P.O. Box 1741  
Roswell, GA  30077

nfarl.org

eNEWS can be located online at:  
https://nfarl.org/enews-index
Club Repeaters

<table>
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<tr>
<th>Frequency—Description</th>
<th>P.L. Tone</th>
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<tbody>
<tr>
<td>145.470 (-) EchoLink Node 560686 NF4GA-R</td>
<td>100 Hz</td>
<td>Morgan Falls</td>
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<tr>
<td>147.060 (+) Primary ARES Repeater</td>
<td>100 Hz</td>
<td>Roswell Water Tower</td>
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<tr>
<td>* 224.620 (-) Joint Venture with MATPARC</td>
<td>100 Hz</td>
<td>TBD</td>
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<td>443.150 (+)</td>
<td>100 Hz</td>
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<tr>
<td>444.475 (+)</td>
<td>100 Hz</td>
<td>Morgan Falls</td>
</tr>
<tr>
<td>* 927.0125 (-)</td>
<td>146.2 Hz</td>
<td>TBD</td>
</tr>
</tbody>
</table>

* Currently off the air

Club Call signs: NF4GA and K4JJ

Extra Extra answer: B (question E2D05)

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