



ARES Meeting Agenda - 7/19/23

- Welcome to Our Guests
- Training
- Area Repeater & Simplex Testing Net
- Infrastructure Activities
- Emergency Expo
- Midwest SuperFest
- Plane Fun Day
- NVIS Testing on 80 Meters
- ARES Net Reminders



Welcome to our Guests

- Thanks for joining us tonight
- ARES - Amateur Radio Emergency Service
- For those new to ARES, we do 3 major things:
 - Severe Weather – Storm Spotting
 - Communications Support for Community Events
 - Emergency Communications for Served Agencies
- Major Tools that we utilize:
 - Ham Radios, typically VHF and/or HF gear, including Go-Kits
 - Winlink Express software for over-the-radio email messages
 - Internet Email and text messaging for inter-team communications
- Training – much more to ARES than holding a mic and talking



Training Documentation

- Still at 11 of 29 ARES members who have submitted a training record



Training Resources

- Training Documentation Form
 - Also on our website – on the “Training” Tab
 - <https://www.peoriacountyares.org/wp-content/uploads/2023/01/Training-Documentation-Fillable-Form.pdf>
- How to get a FEMA Student ID (SID)
 - Go to <https://cdp.dhs.gov/femasid>
- FEMA Training for IS 100, 200, 700, & 800
 - Go to <https://training.fema.gov>
- More details in our 07-20-2022 Meeting slides
 - <https://www.peoriacountyares.org/wp-content/uploads/2022/07/ARES-Meeting-07-20-2022.pdf>



Repeater & Simplex Testing

- Repeat the testing as we performed in 2019 and 2020
- Asking use of dual-band mobiles and car-mounted antennas
- No Base Stations or Base Antennas (except Bunker & RC)
- No Handi-Talkies
- No Home Stations
- Some proposed sites may fail to reach some repeaters, and some may fail to reach others via Simplex
- Participants record GPS Coordinates at their test locations
- Maximum Simplex QSO distance in 2020 - 42.1 mi (1-way), 24.2 mi (2-way)

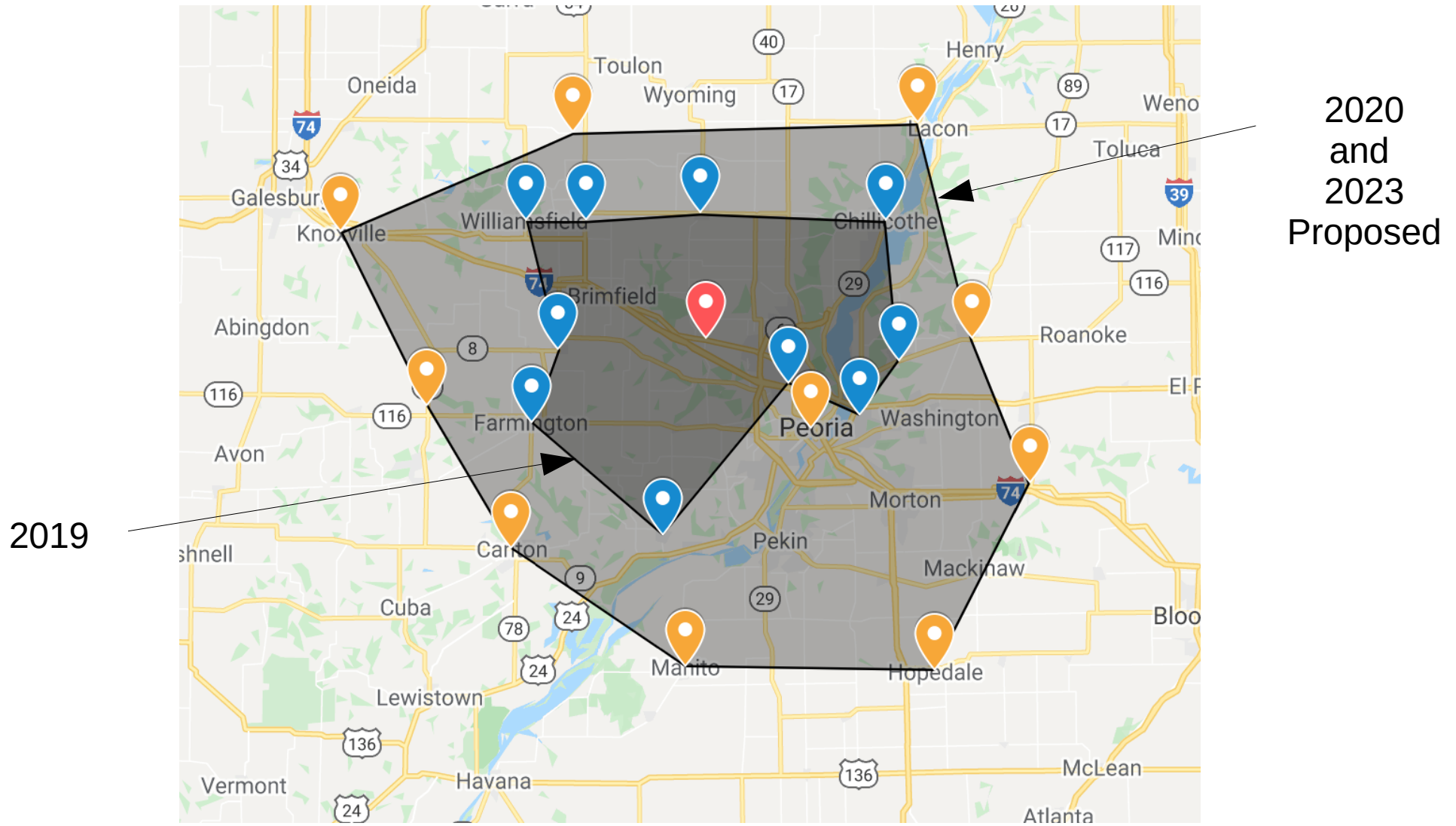


Repeater/Simplex Test Field Sites

- 2019
 - Kickapoo, IL
 - Laura, IL
 - Williamsfield, IL
 - Elmwood IL
 - Farmington, IL
 - Glasford, IL
 - Illinois Central College
 - Germantown Hills, IL
 - Chillicothe, IL
 - Princeville, IL
 - Peoria, IL (near Northwoods)
- 2020 and proposed for 2023
 - Kickapoo, IL
 - West Jersey, IL
 - Knoxville, IL
 - Rapatee, IL
 - Canton, IL
 - Manito, IL
 - Hopedale, IL
 - Goodfield, IL
 - Metamora, IL
 - Sparland, IL
 - Peoria Red Cross



Repeater Test Field Sites





Proposed Repeaters to Test

- W9UVI (147.075)
- W9BFD (146.970)
- WX9PIA (147.330)
- W9JWC? (UHF 444.475 – BU Radio Club)
- Plus Simplex on 146.535
- Any others we should test?

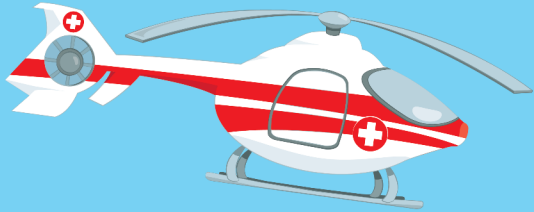


When to do this Test?

- Open for discussion
- Sat. or Sun. afternoon likely to get most operators
- Planning for 11 locations, need 11 operators
- Net Start Time was 1:00 PM in the past



Upcoming Events



Central Illinois Emergency Expo

**Thursday, July 20 • 4-7 pm • FREE
at The Shoppes at Grand Prairie**



**Family-Friendly
Community Event!**



Emergency Expo Background

- Many area Emergency Responders will be there with their equipment
- Typically around 1000 visitors
- Families with lots of kids – climbing in and on
- Checking out all the equipment on display
- Usually noisy – multiple sirens going constantly
- Great chance for us to talk with the public about ARES and Amateur Radio



Emergency Expo Setup

- East of Dick's Sporting Goods
- Start setting up about 3 pm
- I will bring EZ-UP for shade, they provide tables
- Suggest having a chair in your car, may want it
- I have copies of handouts and some posters



Map of Emergency Expo



version of



Emergency Expo Radio Gear

- Would like to have 1 VHF & ~~1 HF station~~
- ~~Someone bring a compact HF Vertical Antenna?~~
- Run on batteries only – I will bring big AGM & a LiFePo
- (We should have our gears' RF Exposures calc's printed out for our own reference)
- Can we get antennas isolated from public? Up? (I'm bringing a Painter's Pole for a roll-up VHF antenna)
- Plan to run a computer monitor on an inverter for a slide show



Infrastructure Activities

- VHF Station at the Bunker
 - Available for Peer-to-Peer Winlink Packet Practice
- HF Station at the Bunker
 - Debug the End-Fed NVIS antenna – High SWR
 - Next - obtain ~~computer and~~ soundcard for HF Winlink
- Peoria Red Cross Radio Room
 - Want to get the Kenwood TS-2000 to do VHF Winlink
 - Want to get the Yaesu FT-991A to do HF Winlink



Detailed List

- Yaesu FT-950 at Bunker - Resolve high SWR. KD9AER and KB9SF have been working to on this. See next slide for details.
- Research how to get the Kenwood TS-2000 to do Winlink on VHF (and HF if the built-in TNC will work) [Some progress has been made]
- Research what is needed to get the Yaesu FT-991A at the Red Cross to do Winlink (on HF and/or VHF)
- Investigate Logging software option for use at Bunker and Red Cross
- Perform RF Exposure Calculations for all stations at Bunker/Red Cross



High SWR on Bunker HF Antenna

- This Antenna is an End fed random length (84ft) with Nelson 9:1 UnUn
- Works good on 40m but SWR is 7+ on 80m
- Tried longer antenna wire but no help
- Tried counterpoise but no help
- Tried grounding unun but no help
- Tried to use FT-950 internal tuner on 80m and it appears to tune up
- KD9ANU to bring Signalink Interface and cable to the bunker before 9am when 80m is still good
- If that doesn't work, we will try 1:1 common mode choke on radio end of coax
- Then try common mode choke along with counterpoise
- If still not able to tune 80 m then consider replacing endfed with dipole
- Would appreciate any comments, recommendations, etc



Midwest SuperFest is Coming

- PAARC will be holding SuperFest in Chillicothe on September 16 & 17 Sat & Sun
- At Three Sisters Park, west of Route 29
- Setup activities will be Thurs and Fri 14 and 15
- Please come and support the club and ARES
- Forums will be held Saturday morning
- Lots of flea market spots and vendors
- Raffle Prize drawing will be on Sunday



A Volunteer Opportunity

- **Plane Fun Day** – Mt. Hawley Airport, Sat Sept 23rd
- Supports LifeLine Pilots, who provide free air transportation
- Volunteers will help with setup, activities, parking, passing out information, and monitoring airplanes on display.
- Volunteer Shifts available:
 - Set-up 9am-11am;
 - Activity Volunteers 11am-1pm & 1pm-3pm;
 - Clean Up 2pm-4pm
- Those folks interested should sign up as an individual at:
https://volunteer.hoiunitedway.org/need/detail/?need_id=782191



NVIS Testing on 80 Meters

- Anyone here have an Antenna configured as NVIS for use on 80 meters?
- (I'm still trying to put mine back up)
- Who is interested in doing some testing?
 - Band Selection
 - Power level
 - Time of day



ARES Net Reminders

- Illinois State ARES HF Net
 - 1st and 3rd Sundays of month at 4:30 PM CST
 - 3.905 MHz LSB (alternate 7.230 MHz LSB) & Echolink 824404
 - Informal 60M & 40M check in - (7230 KHz) at 4:10 PM
 - 60M check at 4:20 pm (5403.5 kHz Channel 5, if busy then 1, 2, 3, 4)
- Illinois Digital Net every Wednesday 8:00 PM on Illinois Link
 - WIRES X 21565
 - Brandmeister DMR 31171
 - TGIF DMR 31171, DMR+ Reflector 4636
 - NXDN 3117
 - P25 31171
 - YSF Reflector Illinois Link 83132
 - D-Star XLX 334G, DCS 334G, XRF 334G, and XLX 312G
 - Allstar Link 42810



END

- www.peoriacountyares.org
 - ilares.org
 - www.arrl.org/ares