



Key Klix July 2025

The Monthly Q-S-T de the
MERIDEN AMATEUR RADIO CLUB & WALLINGFORD AMATEUR RADIO GROUP
"It's the Radio News that's fun to use"



John, KB1MFU, at the grill on Field Day
See more - Our 2025 Field Day coverage begins on page 9!

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Your 2025 Club Officers are:

President	KC1QLS	Ray Cirmo
Vice President	NZ1J	Dave Tipping
Treasurer	KC1OYN	Rick Becker
SAM	K1RCT	Rob Cichon
Secretary	AB1DQ	Jimmy Surprenant





THE PRESIDENT'S POST

by Ray, KC1QLS

Last month, I talked a little bit about antennas. Propagation refers to how a signal travels through a medium, like air, and the various factors that affect its strength and quality as it moves from a transmitter to a receiver. These factors can impact the clarity and strength of your signal depending on the environment and obstacles it encounters. Understanding propagation means knowing how your signal will behave based on the surrounding conditions, allowing for better optimization of communication systems.

Several aspects of propagation and how they affect your signal include:

Attenuation - As a signal travels further, its strength naturally decreases due to the spread of energy over a larger area, known as path loss. This is the primary factor impacting signal strength with distance.

Reflection - When a signal hits a large surface like a building wall, it can bounce back, creating multiple signal paths that can interfere with the original signal, causing distortions and signal degradation.

Diffraction - When a signal encounters a sharp edge, it can bend around it, allowing the signal to reach areas that an obstacle would otherwise block.

Scattering - When a signal hits small objects like foliage or dust particles, it can scatter in multiple directions, weakening the original signal.

Refraction - As a signal passes through media with different densities (like air to glass), it can bend slightly, altering its path.

Several factors influencing propagation include:

Frequency - Different frequencies behave differently, with higher frequencies experiencing more attenuation and being more susceptible to obstacles.

Terrain - Hills, mountains, and other geographical features can block or significantly weaken signals.

Weather conditions - Rain, snow, fog, and humidity can absorb radio waves and affect signal strength.

Antenna placement - The height and direction of antennas can greatly impact signal propagation.

Things you might do to manage propagation issues:

Choose appropriate frequencies - Select a frequency band that is less affected by the environment for your specific application.

Optimize antenna placement - Position antennas carefully to maximize signal strength and minimize interference.

Use signal boosters - In areas with poor signal, signal boosters can amplify the received signal.

Consider line-of-sight - When possible, ensure a clear line of sight between the transmitter and receiver for optimal signal strength.

There are a number of websites offering real-time propagation data, as well as propagation predictions and forecasts. WSPRnet and PSKreporter are excellent sites for getting a real-time overview of spot activity on each band and giving a general idea of propagation conditions. VOACAP is a great tool for HF propagation predictions. Depending on your level of understanding, you can use sites like NOAA's Space Environment Center to get information on solar activity, which impacts propagation.

These are just a few of many places to go, and I would encourage you to spend some time investigating the many resources the internet has to offer. And of course, the club has many members who are happy to help 'Elmer' in this area; all you need to do is ask.

All of the officers are here to serve as caretakers of the club. When you see one of the club officers, make it a point to reach out and give them your comments and ideas to help focus the direction of the club. Every member has an equal say/vote in what you want the club to be.

As I like to say, this hobby is all about fun, education, camaraderie and public service. This is what it should be - after all, it is a hobby.



MARC VE Sessions

MARC hosts a VE License Exam Session on the second Saturday of each month, starting at 9:00 AM local time at the OEM at 143 Hope Hill Road, Wallingford, CT. Exams are now paperless and require obtaining a PIN from www.examtools.org before the test date.

For more information, contact Jim N1ZN at N1ZN@arrl.net

NOTE: The July VE session will be held on Saturday, July 19 as the OEM is closed on July 12.



Key Klix *Klassified* Buy, Swap & Swap...

FOR SALE: OLED ZUM Hotspot from HRO

In good working condition, but needs a new antenna. asking \$50.

Also available: **A/B one-to-two antenna switch** for PL259 connectors.

Contact: Todd, K1TD0 at k1tdo@icloud.com

FOR SALE: Three Items:

- | | | |
|---------------------------|----------------------|-------|
| 1. Heathkit VF1 VFO | Condition: Very Good | \$ 65 |
| 2. Ameritron ALS 600W Amp | Condition: Good | \$850 |
| 3. Bendrix Straight Key | Condition: Good | \$ 50 |

Contact Rich, KB1FGC, at Marzo7088@yahoo.com

FOR SALE: REALISTIC DX-300 GENERAL COVERAGE RECEIVER

Complete, parts/repair candidate. Functional w. issues. AS IS \$50 firm.

Contact: Jimmy, AB1DQ at james@ab1dq.com

HAVE HAM RELATED ITEMS TO SELL? LIST THEM HERE FOR FREE!
Email keyklix@w1nrg.com with your listing, asking price and contact information.
LOOKING FOR HAM RELATED ITEMS TO BUY? MAKE YOUR PITCH HERE!
Email keyklix@w1nrg.com and tell us what you're looking for.

Key Klix Department of Corrections...



In the June 2025 **Key Klix**, we incorrectly reported that on Saturday, May 3rd, Jeff N1AKN brought a WWII tank telescope to the OEM. While not an intentional lie, this was not true.

Jeff did not donate the WWII optics. Rob, K1RCT, had received the object from the estate of John, W1DQ/SK.

Rob has placed the scope in the display case at the OEM, where it may be seen by members and visitors.

We also wish to apologize to Charles Vossbrinck, KC1TSL's whose name was misspelled in our June issue.

Please accept our sincere apologies for these errors, as we strive to do better!



**ABOVE: WWII tank optics
donated by the estate of
W1DQ on display at the OEM**

Minutes of the June 2025 Business Meeting

The following minutes of the June 12 business meeting will be moved for approval at the July 10 meeting.

Quorum

Club secretary AB1DQ confirmed a quorum:

Membership per June 2025 Roster: 201

Minimum for Quorum: 20 = 18 members + 2 Officers

In attendance: 25 = 20 members + 5 Officers

In Attendance:

Officers: KC1QLS, Ray Cirno [President]; NZ1J, Dave Tipping [Vice President]; KC10YN, Rick Becker [Treasurer]; K1RCT, Rob Cichon [Station Activity Manager]; AB1DQ, Jimmy Surprenant [Secretary]

Members: K1LHO, Mike Ash; K1LYP, John Yusza; KB1JL, Eric Olsson; KB1MFU, John A Ramadei; KC1DOY, Ted Renzoni; KC1KQH, John R Kasinkas; KC1TSG, Jim Drexler; KC1TSM, Ellen Cosgrove; KC1TSX, Michael J Barile; KC1WFB, Lloyd Saberski; N1API, Al Kaiser; N1BRL, Bart Toftness; N1GNV, John Bee; N1LES, Joe Murray; N1ZN, Jim Savage; W1BRY, Don Chepurna; W1EDX, Paul J Stasieluk; W1HLP, Scott Marin; WB1GFI, Stanley C Hiriak; WB1GYZ, Bob Biancur;

Call to Order: 7:00 PM EDT by Club President, KC1QLS.

Approval of the Minutes

MOTION: AB1DQ moved that the May business meeting minutes sent to the club membership on Monday shall be approved without changes.

SECONDED **DISCUSSION:** None **VOTED:** Approved.

Secretary's Report, by AB1DQ:

MOTION: AB1DQ, moved that the following applicants for club membership be approved:

<u>Call</u>	<u>Name</u>	<u>License Class</u>	<u>Home QTH</u>
KD2TLD	Patrick Lacombe	General	Middletown, CT
KC1NHE	Reed Hansen	Amateur Extra	Meriden, CT
W1HLP	Scott Martin	General	Seymour, CT

SECONDED **DISCUSSION:** None **VOTED:** Approved.

Membership Report: The club now has 201 members.

Correspondence: None.

Questions for the Secretary: None

Treasurer's Report by KC10YN:

MOTION: Rick, KC10YN, moved that the April Treasurer's Report sent to the club membership on Monday shall be approved.

SECONDED **DISCUSSION:** None **VOTED:** Approved.

Rick highlighted several items from the Treasurer's Report, including:

- We continued to receive donations in support of Technician Manuals for Disabled Veterans. John Kasinkas KC1KQH donated \$25, and WA1FFT Ray Irwin's donation of \$50 was posted in May after a PayPal delay.
- We have received a total of \$200 and are gratefully accepting additional donations.

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- Andrew Rudczynski is now AC1TY (formerly KC1VRL). As a reminder, if a member changes their contact or callsign information, please share the updated information with Treasurer Rick, KC1OYN, who maintains the master member list.
- We have extended our W1NRG.com website hosting contract for an additional year at the cost of \$155.88, which exceeds the previously approved \$150.00 recurring cost amount by \$5.88. The membership approved a maximum of \$150.00 with a sunset date of February 2027 at the May 2024 business meeting.

MOTION: KC1OYN moved to revise the maximum recurring yearly expense for website hosting to \$175, leaving the sunset date unchanged as February 2027.

SECONDED **DISCUSSION:** None **VOTED:** Approved.

Questions for the Treasurer: None

Station Manager's Report by K1RCT:

Rob highlighted several items from the Station Activities Manager's Report, including:

- Set up FT-950S at North Station, FT-991a at South Station
- Updated logging software at all stations and on spare Laptops.
- Installed FT-991a at 6M VHF Station, with NZ1J, Dave's assistance, adjusted parameters and settings to utilize WSJT-X Modes, and verified TX & RX over the air.
- Installed QD Mount at FTM-200D radio, the club Wires-X station.
- Installed FT-991a Mobile Mount inside EOC trailer (EM-trailer), including FT-991a.
- Equipment Transfers:
 - Loaned Mike Ash, K1LHO, a VHF/UHF Magnetic-mount antenna, returned two weeks later on 05/31/25.
 - Loaned Mike Granoth KC1VQY a RingoRanger VHF antenna on 05/20/25.
 - Loaned Jay Polaski, KC1UJP, the Ameritron AL-800 w/switch (John Elengo SK) for pre-sale testing in April 2025.
 - Loaned Jay Polaski, KC1UJP, a Kenwood external speaker on 2/01/25.
 - Loaned John Yusza Jr, K1LYP:
 - A TS-450S Kenwood (Town)
 - A TS-690 Kenwood (Club)
 - Loaned Matt Mowerson, WA1CJA (former KC1IIL) a TS-430S

Any equipment loaned out to anyone, from either MARC or WARG inventory, must be reported to the S.A.M. and Radio Officer of WARG within 24 hours.

Questions for the S.A.M.: None.

Standing Committee Reports

Scholarship Committee; Jim Savage, N1ZN, reported that we had 10 scholarship applicants this year - eight from Platt, one from Sheehan S, and one from Maloney. All applicants were excellent.

The committee chose Noah Kerelejza, a senior at Platt studying Mechanical Engineering, who finished 2nd in his class, and will be attending Brown University.

Jim acknowledged the work of fellow Scholarship Committee members and thanked Shawn Warren, KC1NQE, Kristin Olsson, KC1ISI, Rob Cichon, K1RCT, and Mike Ash, K1LHO.

Old Business: None.

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New Business:

- **HamXposition Speaker Sought:** Ray, KC1QLS, is looking for a volunteer speaker for HamXposition in Marlboro this summer [de KC1QLS]
- **Club Librarian:** Ray, KC1QLS, will be temporarily assuming the Club Librarian duties and will be working on sorting out old books to be auctioned off [de KC1QLS]
- **June Activity Meeting:** The June Activity Meeting will be held over Zoom, and the topic is Field Day [de KC1QLS]
- **Field Day Planning** Field Day is 2 weeks away, here is an update on preparations [de NZ1J]
 - Our goal is to have as many people as possible participate and earn as many points as possible.
 - Jimmy, AB1DQ, will coordinate our extra points program. Contact Jimmy if you can help.
 - Jimmy, AB1DQ, will be making Sunday breakfast, and John, KB1MFU, will be grilling on Saturday. Additional volunteers are sought for the Saturday cookout.
 - Field Day runs from 2 pm Saturday to 2 pm on Sunday, and we are planning to go overnight as we have sufficient volunteers (2) already committed. Please sign up for an overnight shift if interested.
 - Plan to attend this month's Activity Meeting for further discussion and final Field Day planning.

Comment: Al, N1API, shared that he has been having trouble with Dimension IV, his timekeeping software, and recommends the club update its computers with NetTime before Field Day.

Response: Rob, K1RCT, Club SAM, stated that MARC uses a different time server and hasn't observed any problems, but will keep an eye on this.
- **Lark at the MARC / Auction:**

MOTION: Ray, KC1QLS, moved that we cancel the scheduled July 24 activity meeting and instead hold an auction and "LARK at MARC" on July 26.

SECONDED **DISCUSSION:** None **VOTED:** Approved.

Dave, NZ1J, provided information about coupling an auction with LARK at MARC. The auction will allow the club to clear out surplus books in the library and other gear, and members will also be able to bring in gear they'd like to auction off.

Questions & answers:

- Q: Will the club take a small cut from member sales as a donation and for overhead? [de AB1dQ]
- A: No decision has been made yet, but Dave doesn't think the club should take a cut. The purpose is to clean out clutter in OEM. This is still in discussion. [de NZ1J]
- Q: Will the auction be open to non-club members? [de K1LYP]
- A: Non-members are welcome, but we won't publicly advertise [de NZ1J]
- Discussion: A general discussion ensued on whether or not a weight limit should be established for the auction. Several members shared their opinions, and the general agreed-upon takeaway was that members need to be responsible for taking home whatever they bring that isn't sold.

Ray, KC1QLS, stated we will move forward and will publish the rules.

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Announcements: None

Ham Radio Club Activities [de NZ1J]

The ongoing club push has been to get members more active. The ARRL Digital Contest was held the previous Saturday with a focus on FT8. While we had planned to operate in the contest at the OEM, as it was closed for renovations, we operated from Wharton Brook despite the rain. Ten members showed up and we operated in all contests on the air for almost seven hours. Everyone had a great time.

Adjournment

MOTION: KC1QLS, Ray moved at 7:29 PM EDT that the June 2025 business meeting should now be adjourned.

SECONDED **DISCUSSION:** None **VOTED:** Approved.

- The meeting was adjourned at 7:29 PM EDT -

Calling all volunteers!

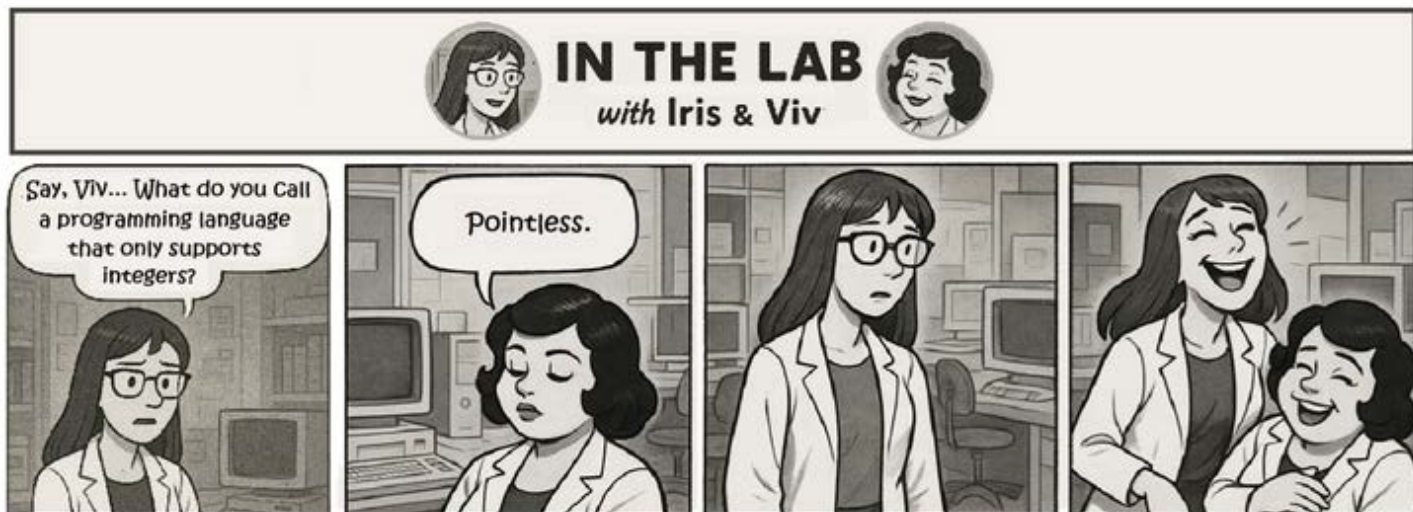
The 2025 MARC/WARG Fall Technician License Class is coming soon!



Looking for a great opportunity to get involved in a signature club program where you can have fun, get to know fellow club members, and, best of all, help Elmer new hams into the hobby?

Then why not consider volunteering as a teacher for the Fall Technician License course? We meet at the OEM for 12 Tuesdays from 6:30-8:30 pm starting on September 19 and present the material from the ARRL License manual, a chapter a week. Volunteers can partner with others and are free to present a chapter of their choosing in their presentation style.

EMAIL Jimmy Surprenant at james@ab1dq.com for more information or to volunteer - THANKS!





W1NRG *Newsline*



MARC 2025 Field Day Diary 'as it happened'

By Ted Renzoni, KC1DOY

Saturday 28 June 2025

Field Day opened with a running start today. Jeff N1AKN examined a 220 MHz radio that had failed in operation and determined that two capacitors had failed when the radio was powered up. After further testing, he decided that the radio wasn't worth repairing due to its age and old technology. Rob K1RCT, MARC station manager, was notified and will remove it from the equipment inventory.

Dave NZ1J helped Scott W1HLP set up logging software on his laptop. This isn't the first time that Dave has offered assistance to club members. He has been one of the club's foremost Elmers as well as a major supporter of club activities.

Meanwhile, other club members were busy preparing the various stations for Field Day operations. One group set up the GOTA antenna in front of the firehouse. Then Jeff N1AKN, John K1LYP, Paul KC1TSL, Reed KC1NHE, Dave NZ1J, and Mike KC1TSX all took a hand in getting the station tested and running.

At 1800Z, when Field Day started on the air, Kristin KC1ISI and Seth KS1WK were up and running with Seth logged contacts while Kristin operated the 20M SSB station. Everything was going very well there and the next shift of operators should have no problems.

Tom Frenaye K1KI, ARRL New England Division Director, stopped by and spent time talking with club members about ARRL involvement and ham radio advocacy at the federal level, as well as addressing membership concerns about costs, QST magazine content, and efforts to attract the next generation to ham radio among other things.

While all of this was going on, John KB1MFU was outside grilling hot dogs and hamburgers to feed our hungry crew. Along with that, we had baked beans, potato salad, and anything else that you could want, as well as cookies and brownies for dessert. If you didn't attend Field Day at MARC, you missed out on a good time. By the way, tomorrow Sunday the 29th, we'll all be back at it!

Sunday 29 June 2025, the second half of Field Day weekend started with everything continuing to run perfectly. Before breakfast was even served, Jeff N1AKN and Ron W1TK were already examining a broken watt meter. It didn't take Jeff long to discover that the problem stemmed from incorrect reassembly after a previous repair. Nice work, Jeff. I'm beginning to think that you could even fix a rainy day!

To start everyone's day off right, Jim AB1DQ and Ellen KC1TSM whipped up a fantastic breakfast of pancakes, bacon, bagels with cream cheese, pancakes, hot coffee, and tea, and let's not forget the pancakes! By the way, there was real maple syrup for the pancakes this year - WOW!

Matt KC1VCM and Al N1API worked the FT8 station in the main room while Mike K1LHO was busy manning the CW station in the radio room. All in all, this was a very good Field Day with 400 QSOs total. A last-minute check could put us over that number. **Key Klix** plans to publish the final numbers next month...be sure to come back and see how we did.

Club president Ray Cirimo KC1QLS, and Eric Olsson, KB1JL, accepted a generous donation from Lloyd Saberski, KC1WFB, as a thank you for the club's work in providing emergency communications for the Ion Cheshire half marathon road race earlier this year (see the May issue of **Key Klix**).

Ray KC1QLS and Jim N1ZN presented the 2025 club scholarship award to Noah Kerelejza, a senior at Pratt High School who will be attending Brown University, where he intends to study Mechanical Engineering. Noah finished second in his class, and members of the club enjoyed congratulating him and learning more about his plans for the future.

A big thank you goes out to all who participated in this year's Field Day and especially to those who worked so hard to set things up and make it all happen. Get some rest you guys. Winter Field Day will be here before you know it!

~ de Ted KC1DOY





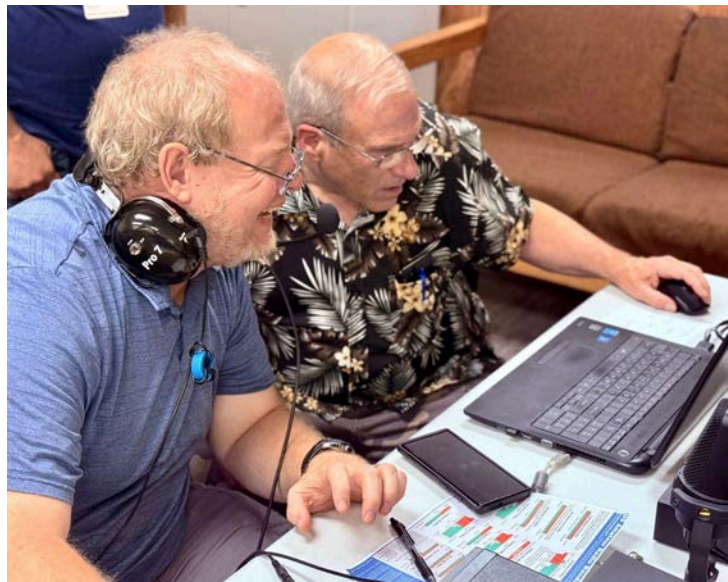
2025 Field Day at MARC

A photographic gallery...



TOP LEFT: NZ1J and W1HLP
RIGHT: KB1MFU at the grill
MIDDLE LEFT: Hungry hams gather
RIGHT: Many hands make short work
of antenna raising.
BOTTOM: The GOTA station team at
your service.
NEXT PAGE: Many hams on the air
making Field Day contacts.





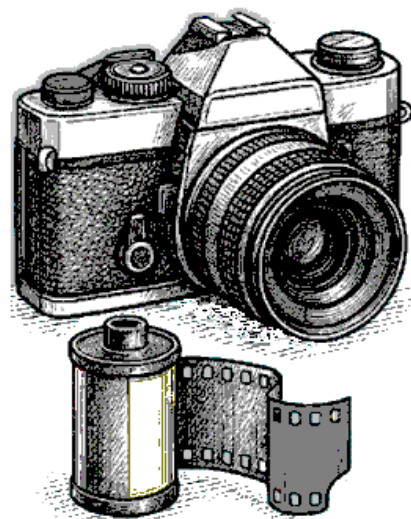


**TOP LEFT: The MARC Breakfast Club is ready to feast.
RIGHT: KB1MFU, AB1DQ & KC1TSM whip up breakfast.
MIDDLE LEFT: KB1MFU grills dogs and burgers.
RIGHT: KC1QLS & KB1JL receive the donation from Lloyd Saberski. BOTTOM: Expert radio tech N1AKN at the bench.**





ABOVE LEFT: KC1QLS and N1ZN award the 2025 Scholarship Award to Noah Kerelejza, **RIGHT:** AB1DQ & NZ1J team up to make some phone QSOs on 15 M. **LEFT:** KC1VCM and AI N1API making FT8 contacts on Sunday morning. **BELOW:** Hams enjoying some social time in the bay. Thanks to KC1DOY, KC1QLS, NZ1J, AB1DQ, and KC1TSM for sharing these great photos. Send your Field Day photos to keyklix@w1nrg.com



Dave's Take On Field Day 2025

by Dave Tipping, NZ1J

I really enjoyed myself throughout Field Day. I'm sure I will miss someone who deserves recognition, but I'll say this:

John, KB1MFU, did a great job keeping us well fed on Saturday. **Jimmy, AB1DQ**, and **Ellen, KC1TSM**, did an equally great job on Sunday. **John, K1LYP**, again brought us his excellent potato salad. **Bob, WB1GYZ**, would likely say that it's his XYL we should thank for the desserts he provided. I know there were other contributions - I don't know who brought the brownies I enjoyed!

Rob, K1RCT, maintains a low profile but keeps the radios, computers, antennas, software, and network running. Lots of other club members pitched in, but Rob is the one who assured us we had four stations running several modes on any band we chose to use.

The overall level of effort was incredible. There were plenty of volunteers for setup and breakdown. Seasoned hams were always ready to assist newer members. **N1API**, **K1LYP**, **KB1JL**, and **WB1GYZ** deserve special mention.

Jimmy, AB1DQ, led a team that earned the club a lot of bonus points. These included **Ed, W1YSM**, who initiated NTS traffic from our site, **Paul, KB1BQP**, who put together our information table, **Al, N1API**, who copied the ARRL bulletin, and everyone who staffed the GOTA station.



It was great to see so many newer hams on the air. Several signed up for an hour or two of operating, but then were on the lookout for more opportunities to operate.

With all that, MARC is big enough that **N1API**, **W1EDX**, **NR1B**, **N1XXU**, and **K1PET** also participated in Field Day off-site. From what I've heard, they all got very good results.

PROPS FOR OUR OVERNIGHT CREW

We had five members operating the radios up until midnight. **John, K1LYP**, worked a four hour shift.

Then, we went down to a skeleton crew until 2 am. Things restarted at 6 am when **Eric, KB1JL**, arrived and began cranking out CW contacts. **Dave, NZ1J** worked FT8 on the other station until 8 am, when several members arrived and took over.

We also had five members operating the radios right up until 2 pm on Sunday.

John, KC1KQH, holds the club record this year, with more than five hours on the air during Field Day.

WARG/CERT *News*

CERT Trailer Upgrades

By Joe Murray, N1LES

As you may already be aware, the former firehouse that is our club's headquarters at 143 Hope Hill Road is a town-shared space, and functions primarily as the Wallingford Office of Emergency Management. The OEM truck and trailer are garaged there, and the town has graciously allowed us to use the trailer for numerous events. Accordingly, the trailer bears the logos of the OEM, the Wallingford Health Department, and the Meriden Amateur Radio Club/Wallingford Amateur Radio Group.

In recent months, there have been numerous upgrades to the trailer with both radio equipment and supplies, and accessories. First, let us start with the radios. The trailer has four radios permanently mounted, along with a rack charger holding 6 Wallingford CERT radios.

The first radio is a Motorola XTL1500. This was the first radio installed years ago. It is a town-owned radio that has the Town CERT channel along with the MURS 1 channel. It is used for a CERT deployment event. It was just used for the Gaylord Gauntlet.

The next radio is a Motorola CDM1250, a VHF-only mobile. It contains the W1NRG repeater, the CERT channel, the MURS channel 1, and the NOAA National Weather Service frequencies.

The third Radio is a KENWOOD 991 Dual Band (UHF/VHF) mobile. It has the W1NRG repeater, the WARG GMRS repeater, and numerous other area repeaters and channels.

The last and most recent addition is a YAESU FT-991. This is an HF/VHF/UHF all-mode transceiver.

It is also a Fusion-capable radio, taking advantage of our recently upgraded W1NRG repeater.

The trailer has a Motorola rack charger for the 6 Motorola HT750 portable radios. These are strictly VHF and contain the Town CERT channel and URS channels 1 and 2. Some have the W1NRG repeater channel for a club function.

(Continued, next page...)



**ABOVE: The CERT trailer radios. TOP LEFT: Motorola XTL1500; RIGHT: Motorola CDM1250
BOTTOM LEFT: KENWOOD 991 Dual Band; RIGHT: Rack charger for 6 Motorola HT75 HTs.**

Other trailer updates include a step stool with handle, digital clock, an AED and first aid supplies.

The town is interested in further training for our CERT team for "rehab" on scene. This would include providing coffee, water, and food to firefighters and victims at a fire scene, search and rescue occurrences, and other events as needed.

The trailer was recently deployed with our Wallingford CERT to the annual Gaylord Gauntlet on June 14 where staffed by Eric Ollson, KB1JL, and Joe Murray, N1LES, it served as the CERT command post. Everything worked perfectly.

The 2025 Gaylord Gauntlet



ABOVE: Wallingford CERT volunteers poised and ready for action before the 2025 Gaylord Gauntlet.

On Saturday, June 14, the Wallingford CERT team provided communications for the Gaylord Gauntlet 5K obstacle course race, also known as a “mudder,” on the 400-acre property. This was the 11th annual Gaylord run, and the second for the CERT team. Last year, a serious medical event took place, and the quick response from our radio team was able to facilitate a rapid medical response, which saved a life.

Gaylord asked us back. Scott Maguder, N1LES, KB1JL, and KC1WEX met several times with Gaylord staff this year to plan the deployment. The event is held annually, rain or shine.

The 5K run had 1140 registered participants, and 32 CERT members participated in communications. 17 of the member volunteers were also MARC-WARG amateur radio operators. Some of the volunteers worked morning or afternoon shifts, and others chose to work the whole event.

This year, with the assistance of the North Haven CERT team, we were able to staff all 24 stations on the course. We deployed our communications trailer and had direct communications with all 24 posts, the medical tent, the volunteer tent, and with Gaylord staff. We also monitored Wallingford Fire EMS. The command post was staffed by N1LES and KB1JL. The radio team reported several minor medical situations and logistical problems, which were handled quickly by staff. There were 3 fractures and one dislocation, which required EMS transport to the

(Continued, next page...)

local hospital. Communications were efficient and professional, and we worked well with Gaylord staff and EMS. The trailer as a command post worked well, also. We did discover some tweaks to be done going forward.

Next year's event is June 13, 2026, and we plan to participate. We will be reaching out next spring for volunteers. It's always a good feeling to practice one's emergency communications skills and give back to the community for charity events like this.

Thanks to the following club members who participated: KC1WEX, N1LES, KB1JL, KC1VRG, WA1FFT, K1LYP, N1AKN, KC1VQY, K1RCT, KC1NQE, KC1ISI, AB1DQ, KC1TSM, N1PQQ, KC1PEN, N1PHI, and KB1MFU. Thanks to Trish N1PHI who also provided course maps.

~ de Eric Olsson, KB1JL

Wallingford CERT responds to house fires.

During the evening hours on June 25, two major fires struck our town. Dozens of Fire Fighters from surrounding towns led by our courageous Wallingford Fire Department battled flames and the high temperatures.



Wallingford CERT members assisted by our colleagues from North Haven CERT provided support at both scenes. Our operations then transitioned to sheltering displaced residents at OEM on Hope Hill Rd. Thanks to Red Cross Disaster Services and Wallingford Public Health Department.

Please keep the displaced families in your prayers!

[Source: Wallingford Community Emergency Response Team]

2025 Gaylord Gauntlet Gallery

The Gaylord Gauntlet is a 3.3-mile-long obstacle course featuring 24 obstacles, including cargo nets, mud pits, and a water slide. The event is a massive fundraiser for the Gaylord Sports Association, the hospital's adaptive sports program that offers 17 sports programs throughout the year to encourage those with disabilities and physical impairments to get active again and help them restore some sense of mobility. Here are some photos from this year's event.



Above photographs courtesy of K1RCT



ABOVE: Joe N1LES & Eric KB1JL inside the CERT Trailer Command Post. *Photographs courtesy of N1LES*



ABOVE: Participants on the obstacle course. *Photo credit: Gaylord Gauntlet Facebook page.*



*Three may keep a secret,
If two of them are dead.*

BENJAMIN FRANKLIN
Poor Richard's Almanack, 1735

0	1
1	0
BINARY SUDOKU 02 SOLUTION	

Last month, Rhinos, this month... Warthogs!



Last month, **Key Klix** reported on how MARC members NR1B, NZ1J, and KC1TSG earned the Parks on the Air Rhino award for a successful POTA rove working 10 different parks in one 24-hour period.

This month, we share news of another MARC POTA rove; this time, it was Ted KC1DOY and Dave NZ1J earning the esteemed Warthog distinction of working five different parks in 24 hours. KC1DOY's account of the day follows...

Thursday morning, 12 June 2025, I (Ted) KC1DOY and Dave NZ1J set out on a 5-park POTA rove, the object being to activate all five parks in one day. In just under 4 hours, we activated Wharton Brook SP US-1728, Hammonasset SP US-1676, Stewart B. McKinney NWR US-0228, New England National Scenic Trail US-4561, and Cockaponset SF US-7531. This totaled 60 QSOs and earned both of us the POTA Rover Warthog Award.

I have found POTA to be a fun and interesting ham radio activity. Unlike contesting, it is a low-pressure way to enjoy making a lot of contacts and working for personal bests. It's a great way to sharpen your skills at making QSOs as well as testing various antenna and equipment setups in the field. A successful rove depends on being able to set up and take down your station quickly and efficiently to complete your rove in the time you have allotted. Great practice for emergency deployment as well.

If you haven't tried it yet, you are missing out on a lot of fun.

~ de Ted. KC1DOY



SteppIR to Discontinue Antenna Line



SteppIR will cease production of its line of consumer antennas and accessories on August 31, 2025, but will accept and fulfill all consumer antenna and spare parts ordered by August 31. After August 31, they will sell spare parts as long as supplies last.

SteppIR states in their press release that there will be no changes in terms of warranty service or technical support inquiries and further state that this decision was not made lightly, given their long history of impact and innovation, but concluded this move was necessary for their ongoing operations and to make sure they can continue to provide their existing customers with product support services efficiently.

SteppIR was founded in May 2001 by Mike Mertel, Jim Thomas, and John Mertel. The company's core mission is to provide innovative and high-performing antenna systems, particularly for amateur radio and commercial applications. SteppIR's history is marked by a focus on engineering excellence and a commitment to customer service

Amateurs who have been planning to purchase an antenna or supplies from SteppIR can still place their orders via the website at <https://consumer.steppir.com/> through the end of August.

Thank you, Al, N1API, for forwarding this news story.



At the Clubhouse *with Ted, KC1DOY*

Saturday, 7 June 2025, was a bit different for MARC since the OEM was not open for club activities while under renovation. I stopped by to check on how things were going and found that everything was well in hand. Len Guercia KC1WEX, Director of Emergency Management for the Town of Wallingford, led a volunteer crew who helped to clear all of the furnishings, cabinets, etc, out of the way so that the room could be painted and new carpeting installed. Thanks to all who helped, and thanks to the Town of Wallingford for their continuing support.

With the OEM closed, a group of our members met at Wharton Brook State Park for a POTA activation and general radio discussion. We were led by club president Ray Cirno, KC1QLS, and club vice president Dave Tipping, NZ1J. The plan was to activate the park on HF, FT8, and VHF/UHF modes. Although it rained on and off, it didn't spoil the day. Everyone enjoyed not only operating from the park but getting together once again to socialize and, of course, talk about ham radio.

This was a great run-up to Field Day, which should prove to be another fun activity and a highlight of the year at MARC.



ABOVE: JUNE 7 AT THE OEM - BOTTOM: JUNE 7 AT WHARTON BROOK



OEM Terms of Use for MARC/WARG Members & Activities

Kindly read and abide...

OEM Terms of Use for MARC/WARG Members & Activities

The OEM is a town facility that many people utilize. We must reduce our footprint in this shared facility that the town graciously allows us to use.

- Nothing is allowed to go on any wall without Lenny's express permission.
- If you bring anything into the OEM, you must take it with you when you leave. Please do not leave any equipment or printed materials. If you bring magazines or equipment to share or offer with others and they have not been taken when you are ready to leave, it is your responsibility to take any remaining material back with you.
- The bottom shelf of what was once the library cabinet can only be used for books and manuals related to upcoming classes. In other words, it is off limits to everyone except for class usage by James if he needs it during class sessions.

The OEM is a shared facility that the town allows us to meet in. We are required to remove all items we bring into the building when we leave.

Remember, we are one of many organizations that utilize the OEM. We are grateful to the town of Wallingford for allowing MARC the use of the OEM. Utilizing this facility and following the expectations of the town is our top priority.

Please see the following memo from Deputy EMD Lenny Guercia for specifics.

~ de KC1QLS, Ray Cirmo, MARC Club President





143 Hope Hill Rd, Wallingford, CT 06492-3019
Telephone: (203) 294-2010 Fax: (203) 294-2736

To: WARG, CERT, and MRC Team Members
From: Leonard Guercia, Deputy EMD
Date: June 25, 2025
RE: House rules for use of 143 Hope Hill Road facility
Cc: Fire Chief Buck
Health Director Bautista
CERT Coordinator Maguder
WARG President Cirimo

Over the last two months, the Town has made a large capital investment in our facilities at 143 Hope Road. These included upgraded generator capacity to support sheltering, roof repairs, classroom carpet, and fresh paint for the doors and walls. We now have a Class A response and training facility for our joint mission, supporting the Town Emergency Response efforts.

Note: ***Nothing is to be affixed to any walls or surfaces without the written approval of the OEM Leadership team.***

After using the facilities for a meeting or training session, the following housekeeping chores must be completed.

- Trash bins emptied to the dumpster (New bags available in the kitchen cabinet)
- Counters and tabletops wiped down.
- Perishable or open food must be taken off campus.
- Bathroom sinks and toilets cleaned.
- Bathroom floors swept and wet mopped.
- Carpets Vacuumed
- Turn out all the lights and lock all the doors.

If you know that cleaning solution or paper products are low please email both Lenny Guercia len@guerciagroup.com and David Devito at Ddevito1089@gmail.com

Thanks to everyone for their efforts to keep our place clean!!!!

Tech Talk, Part 3

SWR Meters Can Make You Stupid

*a continuing **KeyKlix** feature from Quicksilver Radio*

Welcome to Part 3 of our discussion.

As promised, this month I have some rather eye-popping information for you. We're going to see why your SWR meter can lie to you. Or as another fellow says, "SWR meters make you stupid."

The material in this section was prepared using 2 programs from the ARRL Antenna Book CD. Roy Lewallen, W7EL's EZ-NEC antenna modeling program, was used to get the basic antenna data. That info was fed into Dean Straw N6BV's Transmission Line for Windows (TLW) analysis program. If you like to play with antennas, both programs are great tools.

Using EZ-NEC, I "built" a 40-meter dipole at about 33 feet high. As expected, the SWR was about 1.6:1 at the center of the band and below 2:1 at the band edges. Then I opened TLW, specified 100' of RG-8X coax as the feedline, and added the feedpoint impedance (77-j13) calculated by EZ-NEC. TLW calculated the total loss in the coax as just under 1 dB. Most of that was the inherent ("matched line") loss in the coax. The slight SWR mismatch added just a 10th of a dB to the total. None of this was surprising; it's basic antenna theory. But read on...

Let's take that 40M dipole and -- through a tuner -- use it on 20 M. An SWR meter in the shack will read about 6:1. Not great, but well within the range of most manual or external automatic tuners. So the tuner does its thing, our transmitter sees 50 ohms, and happily pumps 100 Watts out into the coax. But how much of that power actually radiates, and how much is lost in the coax? Would you believe that a mere 6 Watts actually goes out as RF? The remaining 94 Watts are lost -- converted into heat -- in the coax!

Hmmm.... I must need a better feedline, eh? So (using the TLW program), I replaced it with some nice, low-loss LMR-400. Much better now. I'm radiating 16 Watts. "Only" 84 Watts lost in the coax. Yikes! Well, I decided to go whole hog and swapped the LMR-400 for some nice 1-1/4" hardline. Which, in the real world, would have set me back about \$500 or more when you include connectors. Only to find out that I'm still losing 1/2 of my power in the feedline!

Maybe the old-timers were right about using ladder line. And sure enough, when I feed that antenna with 100 feet of 450-Ohm ladder line, my loss plummets to almost nothing -- just about 1/2 of a dB. Now almost all of my power is heading out to that rare DX. And of course, now I can actually hear that DX station. Remember that antennas are reciprocal. That 94% loss on transmit is equally a 94% loss on receive.

(Continued, next page...)

But how can the losses be so staggering when my SWR meter shows only 6:1?

Here's the first clue... each time I upgraded the coax, my SWR increased. With the hardline, my meter showed nearly 50:1. No, that's not a typo. Fifty to one. But that's not the worst of it. Remember that SWR is, by definition, the degree of mismatch between the impedance of the feedline and that of the antenna. But I didn't change the antenna at all, and each of my feedlines was 50 Ohm. Then how can the SWR increase? And the answer is -- it can't.

But what my meter reads can (and did) change. Why? Because the high loss in the coax absorbed most of the reflected power. The meter was seeing the full 100W forward power, but only a fraction of what was coming back down the line. TLW tells me that the actual SWR at the antenna feedpoint is about 100:1. That's just what we would expect from a full-wave dipole -- an impedance of about 5000 ohms.

And as if all of that wasn't bad enough, keep in mind that I used a lossless tuner and good quality coax in new condition. Tuners do have loss. And coax used outside does get more lossy with age.

That's it for this month. We touched briefly on ladder line today. Next time we'll take a closer look.

73 for now,
John Bee, N1GNV

SAVE THE DATE!

Sunday October 12, 2025 - Maloney High School

2025 Nutfest ARRL Connecticut Hamfest

BRING your HT & we will program it for FREE

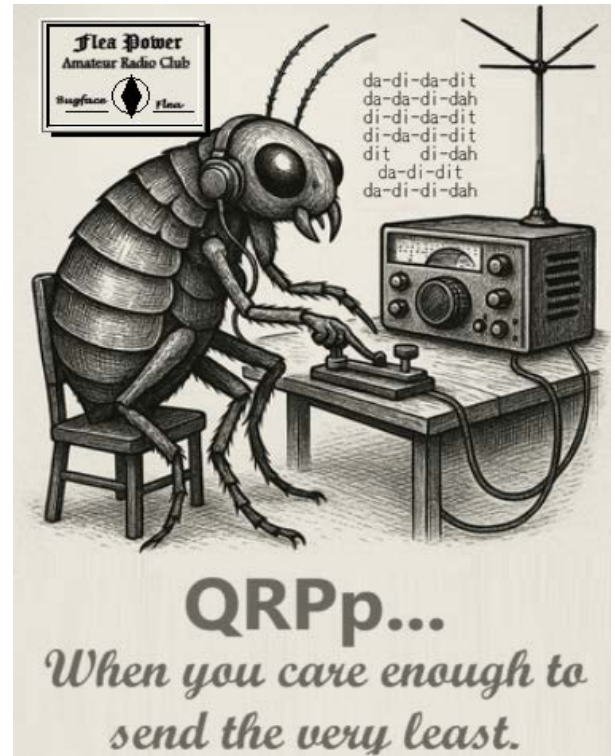
Symposium topics...

THE ARRL Forum ★ Technician Forum

Women Ham Innovators ★ POTA ★ Winlink

Ham Radio & the Law ★ ARES ★ FT8

CERT & Emcomm ★ MARCONI I, II & III



Meet Joel Helfer, KC1VCC

a MARC member profile by Railroad Bob, WB1GYZ



KC1VCC making POTA QSOs

Joel Helfer, KC1VCC, originally from Pittsburgh, moved to Cheshire in 1978 for employment. Joel designed medical products and is the holder of 49 patents. He has an undergrad in electrical engineering and a graduate degree in biomedical engineering.

His introduction to amateur radio was through Harold Kramer, WJ1B, in 1980. Since then, they've gone on many POTA activations together. Joel recounts that Harold initially dubbed him his official scribe, because that's how newbies typically learn to do POTA. They record callsigns, signal reports, and other critical exchange information to learn the ropes. So, over time, they've activated many parks together. Joel recalled that in one particular park, they worked 132 Qs before a sudden snow squall forced them to QRT. These fellas are diehard activators, and certainly not your typical run-of-the-mill, fair-weather operators.

Joel currently holds a General Class license and is preparing to upgrade to Amateur Extra in the near future. He is also in the process of outfitting his station. So far, he has a two-meter handheld and an ICOM 7300 transceiver. Though somewhat hampered by HOA limitations, he has managed to construct an unobtrusive inverted-vee antenna that works well on bands of interest.

Joel is also a sailing enthusiast, having learned to sail and race as a teen. Now that he is retired, he continues to stay active by crewing a 32-foot racing sailboat (J-97) around a course of buoys off the Branford coast. Sometimes, there are enough boats to call it a regatta... a two-class race that accommodates both cruisers and racing boats, i.e., those with spinnaker, and those without.

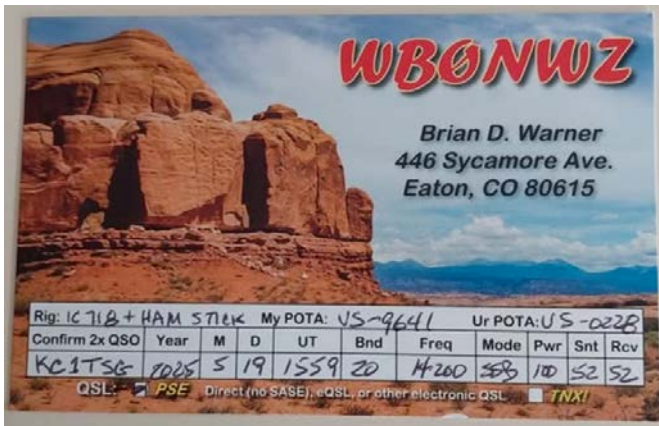
Besides racing sailboats, Joel is a volunteer at the Bradley Street Bike Co-op, an organization that accepts and repairs bicycles, typically about 700 per year, donating half to those in need and selling the remainder to pay overhead.

Joel also sings four-part harmony with New Haven Chorale. They recently performed at Yale's Woolsey Hall and Battell Chapel, captivating the audience with classic Mozart, Requiem, Haydn, and Handel. His daughter, while still a student at Cheshire High School, was invited to audition for Chorale. Joel drove her to audition and, while waiting, asked if they needed a tenor. He was invited to audition on the spot, and they were both invited to join Chorale. His daughter went on to college and music school in '97 and is now a professional opera singer. Joel remained with New Haven Chorale for a dozen years.

~ de Bob, WB1GYZ, Club Biographer

June Member Radio Activity

A look at what our members were up to last month...



Congratulations to **Jim Drexler, KC1TSG**, on receiving his first QSL card verifying his 20 meters phone Park to Park POTA QSO with WBONWZ, Brian Warner, who was activating Devil Creek State Wildlife Area in Colorado (US-9641). Jim was activating the Stewart B. McKinney National Wildlife Refuge (US-0228) just west of Westbrook on the sound. Jim notes they were both using the same HamStick antenna.

Congratulations to **Al Kaiser, N1API**, who started the month of June with a busy and successful weekend of contesting. Al reports working on two contests on the weekend of June 7/8, starting on PSK but only making 4 PSK contacts in the 10-10 Open Season Contest, commenting regretfully that "10-10 seems to be coming apart at the seams." Al then moved on to the ARRL Digital Contest, where he fared much better, finding all the action was on FT8 and FT4. Al hit his personal goal of 300 QSOs and 3,000 points, earning 3,513 points for 321 QSOs. Al worked 48 countries and earned the most points (35) for Australia. Well done, Al, you are an inspiration to us all.

Paul Clark, WA1MAC, has made great use of an [Amazon active cell phone cooler](#) to keep his zBITX and other small rigs from overheating. Paul reports that the cooler attaches magnetically to the rig, and gets the job done, but that it is a bit of a power hog, requiring 5 V and a minimum of 2 A. It is USB-C powered and a temp sensor could be used to only turn it on as needed.



Listen for **Steve Allen, KC1SA**, this month on leg two of his Great Outdoor Road Trip operating as W1NRG this time Down East from the state of Maine. You can read about his southern swing earlier this year in the May edition of **Key Klix** archived [here](#).

POTA continues to be the hot activity for our members. In addition to the club activation on June 7 when the OEM was closed for renovations, several members shared news of their POTA activations on the [MARC Facebook page](#). These included:

- **Jim Drexler, KC1TSG**, who activated two new parks on June 9 - Hurd State Park US-1683 and George Dudley Seymour State Park US-1670, which were within about 1.5 miles of each other, neither with an actual parking lot. Jim reported that on that day, 20 meters was up and down and it took him quite awhile to activate both, but worth it as the highlight was a QSO to VP2ETE in Anguilla.
- **Seth William, KS1WK**, got out on Wednesday afternoon, June 11 to activate US-4561 New England National Scenic Trail from West Peak. Seth made 32 QSOs in just over 30 minutes before I had to break down and go to work.

Seth also reports loving QRP- on June 24 he reported working CE7VP in Chile on a watt and getting a 56 report. Folks, do the math (it's easy - 4,9650 miles per watt! Keep it up, Seth!



ABOVE: KS1WK, Seth, enjoyed a spectacular view during his activation of US-4561

16th Annual 13 Colonies Special Event

IS NOW ON THE AIR - JULY 1 - 7TH, 2025!

Can you get a clean sweep this Independence Day Week by working all 13 American colonies & the bonus stations?

MARC members Rob, K1RCT, and Kristin, KC1ISI will be operating K2D from the OEM. If you can, get on the air and work them.

This is a fun Special Event that's fun to operate and is as American as apple pie, baseball & large public restroom door gaps!

Learn more here: <http://www.13colonies.us/>

Get On the Air...

EVENTS & OPPORTUNITIES

CONTESTS: Click on hyperlink for more info...

- | | |
|--|--------------------------------|
| • RAC Canada Day Contest | 0000Z-2359Z, Jul 01 |
| • FOC Old School Classic 1960s QSO Party | 0000Z-2359Z, Jul 05 |
| • CQ Worldwide VHF SSB/CW Contest | 1200Z, Jul 05 to 1200Z, Jul 06 |
| • PODXS 070 Club 40m Firecracker Sprint | 2000Z, Jul 05 to 2000Z, Jul 06 |
| • RSGB 80m Club Championship, CW | 1900Z-2030Z, Jul 07 |
| • ARS Spartan Sprint | 0100Z-0300Z, Jul 08 |
| • SKCC Sprint A Thon | 1200Z, Jul 12 to 2359Z, Jul 13 |
| • IARU HF World Championship | 1200Z, Jul 12 to 1200Z, Jul 13 |
| • YOTA Contest | 1000Z-2159Z, Jul 19 |
| • ORP ARCI Summer Homebrew Sprint | 2000Z-2300Z, Jul 13 |
| • RSGB IOTA Contest | 1200Z, Jul 26 to 1200Z, Jul 27 |
| • Worldwide Sideband Activity Contest | 0100Z-0159Z, Jul 29 |

STATE QSO PARTIES:

- | | |
|-------------------------------------|--------------------------------|
| • Alabama QSO Party | 1500Z, Jul 26 to 0300Z, Jul 27 |
|-------------------------------------|--------------------------------|

SPECIAL EVENTS:

- | | |
|--|--------------------------------|
| • 17th Annual 13 Colonies | 1300Z, Jul 01 to 0400Z, Jul 08 |
| • W0H - The White House Communications Agency ARC Independence Day Celebration | 0000Z, Jul 04 to 0000Z, Jul 07 |
| • K4RC - Colonial Williamsburg Special Event | 1400Z-2000Z, Jul 05 |
| • W4B - Scope's Monkey Trial - 100th Ann. | 1400Z, Jul 05 to 1400Z, Jul 19 |
| • K6C - California State Fair | 0000Z, Jul 11 to 2359Z, Jul 27 |
| • W3A - Apollo 11 Live from the Moon | 1300Z, Jul 18 to 2200Z, Jul 21 |
| • K3S - NS Savannah Launch Anniversary | 1330Z-2100Z, Jul 19 |
| • K2CAM - Apollo 11 Celebrated | 1330Z-1900Z, Jul 20 |
| • W9ISF - Indiana State Fair | 0000Z, Aug 01 to 2359Z, Aug 17 |

Hamfests...

- | | | |
|---|-------------------------|--------------------|
| • New England Wireless & Steam Museum Amateur Radio Tune-Up | 07/12/2025 | East Greenwich, RI |
| • Northeast HamXposition, ARRL New England Division Convention | 08/21/2025 - 08/24/2025 | Marlboro, MA |
| • Nutmeg Hamfest, ARRL Connecticut State Convention | 10/12/2025 | Meriden, CT |

Weekly W1NRG Nets... On the Air all week long!

Sunday:

ELMER NET

SUN 7:30 pm VIA ZOOM

See the MEMBERS AREA of the website for access

Monday:

NEW HAVEN/MIDDLESEX SKYWARN NET

MON 7:00 pm W1NRG/R 147.360+ PL 162.2Hz

6 METER SSB NET

MON 8:00 pm 50.175 MHZ USB

Tuesday:

2 M FM NET

TUE 7:00 pm W1NRG/R 147.360+ PL 162.2Hz

10 M 10-10 CASTLE CRAIG NET

TUE 8:00 pm 28.375 MHZ USB

Wednesday:

JUST PUSH THE BUTTON NET

WED 7:00 pm W1NRG/R 147.360+ PL 162.2Hz

Saturday:

COFFEE CUP NET

SAT 9:00 W1NRG/R 147.360+ PL 162.2Hz

OEM Saturday Open House... It's the place to be!

Come to the OEM at 143 Hope Hill Road on Saturday Mornings for the MARC Weekly Open House.

Join us starting at 9:00 AM to meet fellow club members in a social setting and participate in various radio activities.

And, remember... Sometimes we also have donuts!

The MARC Monthly Puzzler **Binary Sudoku No. 2**

0	

HOW TO PLAY:

Fill in the grid using only the numerals between 0 and 1.

GOAL:

To complete each row and each column so they contain all of the numerals between 0 and 1 without repeating any numbers. There is only one solution to a Binary Sudoku puzzle and when solved, the totals of every row and column will be equal.

Speak little, do much.

BENJAMIN FRANKLIN
Poor Richard's Almanack



Check your answer - SOLUTION ON PAGE 21

EDITORIAL PAGE

Letters to the Editor

Want to comment on something you read in KeyKlix? We welcome all feedback, good, bad and ugly (but civil). Write to keyklix@w1nrg.com with your comments with "LETTER TO THE EDITOR" in the subject line. All letters acknowledged and messages deemed to be of communal interest and that advance the conversation shall be printed in this space.

Desperately seeking an Editor

Key Klix has a long and storied history, renowned for consistently providing informative and entertaining content for the local ham radio operator for decades.

Now at a crossroads, and to keep this tradition alive, we are actively seeking the right person to take on the duties of Editor permanently.

Are you a bona fide radio cuckoo? Do you relish MARC, and are you active in club events? Do you have a creative vision and possess the mad skills to implement your aspirations? Are you willing to make an earnest commitment to serve in the editor's role for a sustainable period?

IF SO, WE WANT TO HEAR FROM YOU! Submit your letter of interest to president@w1nrg.com

Key Klix is *your* newsletter, and we rely on our fellow members to share their latest radio news to provide engaging content for all. Contributing is a great way to connect with other members who may share or want to learn more about your particular areas of radio interests. Please drop us a line with articles, logs, news of what is happening in your shack, and photos are always most appreciated. Keep Key Klix Kool by sending your news, updates, articles, and photos to KeyKlix@w1nrg.com,

Key Klix July 2025

Has been brought to you by

INTERIM EDITOR	-	JIMMY SURPRENANT, AB1DQ
PHOTOGRAPHER	-	TED RENZONI, KC1DOY
BIOGRAPHER	-	BOB BIANCUR, WB1GYZ

Thank you to all of this month's contributors, including...

AB1DQ - K1RCT - KB1JL - KC1DOY - KC1QLS
KC1TSM - N1API - N1GNV - N1LES - NZ1J

MEMBERSHIP ROSTER

The Meriden Amateur Radio Club is

AB1DQ	James Surprenant 26	KC1OYR	Brent Moyer 25	N1FNE	Rod Lane 26
AB1HB	Charlie Dudac 25	KC1OYS	Jim McAuliffe 25	N1GNV	John Bartscherer 25
AB2T	Jordan Zarembo 25	KC1PEN	David Henry 25	N1GY	Geoff Haines 27
AC1SK	George Bucci 25	KC1PXX	Dave Alfredson 25	N1HCA	Susan South 26
AC1ST	Louis Brenner 25	KC1PYT	Jeff Gazso 25	N1IBE	Wade Martell 25
AC1TY	Andrew Rudczynski 25	KC1QHO	Mike Beaudry 25	N1JEO	Joel Curneal 25
AF1X	James Elliott 25	KC1QLS	Ray Cirno 25	N1JMX	Jeff Martin 28
K0OZ	Brian Boccuzzi 25	KC1QWH	Steve Rygiel 25	N1LES	Joe Murray 25
K1BTR	Bryan Ragaini 25	KC1RBY	Sergio Frutuosa 25	N1MOB	Dan David 25
K1DMS	Dave Sack 25	KC1RLQ	Eric Barbour 26	N1NGV	Kevin Gallagher 25
K1JCF	Joe Farrell 25	KC1SA	Stephen Allen 25	N1NIS	Noah Ludecke 25
K1LHO	Mike Ash 26	KC1SDA	Richard McHugh 25	N1OKF	Bob Parisi 25
K1LYP	John Yusza 29	KC1SEN	Nicholas Worroll 25	N1OKR	Frank Ciccone 27
K1MAL	Chris Altieri 26	KC1STF	Julian LoRusso 27	N1OQC	Mike Johnson 25
K1MMK	Michael MacKennedy 27	KC1SYU	Jim Cosgrove 25	N1PHI	Trish Nitschke 25
K1MRE	Mike Easter 25	KC1TAD	Tom Dipinto 26	N1PQQ	Greg Cartier 26
K1NEG	Nelson Goewey 26	KC1THU	Mike Zelladonis 26	N1QYB	Bill Wilecki Jr 25
K1PET	Debbie Purchia 25	KC1TKY	Bob Hourigan 26	N1WCL	David Blasko 25
K1RCT	Rob Cichon 25	KC1TKZ	Mark Bonitatebus 25	N1XXU	Andy Purchia 25
K1SCI	Stuart Isaac 26	KC1TOV	David Tomlinson 25	N1YLN	Edward O'Lena 25
K1SMD	Silas Moeckel 25	KC1TPN	Rick Foster 25	N1ZN	Jim Savage 25
K1STM	Anne West 25	KC1TSG	Jim Drexler 25	N2TAG	Dave Taglianetti 25
K1TDO	Todd Olsen 25	KC1TSK	Richard Pagano 25	N7VGA	Dennis Hanlon 26
K1TGX	Jerry Molaver 30	KC1TSL	Charlie Vossbrinck 27	NA1L	Dale Clift 25
K1UD	Butch Chatfield 25	KC1TSM	Ellen Cosgrove 25	NA2AA	David Minster 25
K1VDF	John Blevins 26	KC1TSN	Chuck Caron Jr. 26	NR1B	Bill Huggins 25
K1WJL	Dave Swedock 25	KC1TSP	Dale Fortin 25	NZ1J	Dave Tipping 26
K1XJ	Kevin Buchanan 25	KC1TST	Mike Boccuzzi 25	UT3UY	Anatoly Kirilenko 25
K2RPM	Bruce Torello 25	KC1TSW	Charles Caron III 25	W1AJK	Andrew Kazimer 25
K4AVM	Andrew Olsson 26	KC1TSX	Mike Barile 26	W1BJG	Judy Wilkins 25
K5ATA	Steve Goodgame 25	KC1TSY	Daniel Gessner 25	W1BRY	Donald Chepurna 27
K5CYN	Cyndi Goodgame 25	KC1TSZ	Deb Caron 26	W1EDX	Paul Stasieluk 25
KA1BED	Bill Green 26	KC1TWA	William Caron 25	W1IKW	Iain K White 29
KA1BMF	Constantino Tobio 25	KC1TYO	Ken Williams 25	W1LV	Steve Morley 26
KA1JTG	James Hartzell Jr 25	KC1UJP	Jasy Polaski 25	W1NDT	Robert Lombardo 25
KA1YZC	Paul Patnoad 25	KC1UJQ	Mark Kirschner 25	W1PRK	James Procaccini 27
KB1APO	Jim Sintay 26	KC1UJT	Michael Carfi 25	W1RCI	Ron Isaac Jr. 25
KB1CXK	Joe Clarizio 26	KC1VCU	John Mandeville 25	W1RWW	Bob Woodtke Jr. 25
KB1EHE	Eric Knight 25	KC1VJS	Anthony Lockery 25	W1TK	Ron Wakefield 25
KB1FGC	Richard Guerrera 25	KC1VQY	Michael Granoth 26	W1UFO	Mike Cei 25

KB1HAX	Bill Reyor III 26	KC1VRG	Robert Shemo 25	W1UKX	Greg Gherardi 25
KB1IFZ	Elsie Mathews 25	KC1VSO	Patricia Lentz 25	W1YSM	Ed Snyder 25
KB1JL	Eric Olsson 25	KC1VUM	Matthew Erff 25	W2OFR	Mark Dickson 25
KB1LWS	Jeanne Gherardi 25	KC1VVC	Joel Helfer 25	W2TT	Ross Lambert 25
KB1MFU	John Ramadei 25	KC1VZI	Joe DePaolo 25	W3APC	James Cook 25
KB1RLF	Steven Chapman 25	KC1WEX	Len Guercia 25	WA1BAR	Michael Barr 25
KB1TBL	Dave Laliberte 25	KC1WFB	Lloyd Saberski 25	WA1CCQ	Norman Bliss 25
KB1TGS	David Robinson 25	KC1WHD	Craig Scully-Clemmons 25	WA1FFT	Ray Irwin 25
KB1TMC	Clare O'Lena 25	KC1WUZ	Scott Martin	WA1INC	Roland Hamel 26
KB1TTV	Jonathan Martin 26	KC2MLH	Adam Castracane 25	WA1JKR	John Rogus 29
KB1YFJ	Glenn Couture 25	KC3UKG	Storm Murrell 25	WA1K	Jack Chapman 25
KC1BQP	Paul St.Amand 25	KD0BMW	Marty Crandall-Grela 25	WA1MAC	Paul Clark 25
KC1CAB	Frank DiTerlizzi 26	KD2TLD	Patrick Lacombe 25	WA1SFH	Douglas Sharafanowich 25
KC1DOY	Ted Renzoni 27	KE1AU	Bob Kaczor 26	WA1TRY	Rich Aubin L
KC1HFO	Johannis Stodis 25	KE1AV	Dave Sanford 25	WA1ZVY	Jim Martin 28
KC1IHK	Scott Mowerson 25	KE2ECC	Phillip Gallanti 26	WB1DMK	William D'Agostino 25
KC1ISI	Kristin Olsson 25	KF6LU	Andrew Buza 25	WB1DQT	Bill Bacon 25
KC1KQH	John Kasinskas 25	KK7NLS	John Condon Jr 25	WB1GFI	Stan Hiriak 25
KC1MJZ	Michael Berube 25	KO1J	Randy Whitehouse 25	WB1GYZ	Bob Biancur 25
KC1NHE	Reed Hansen 25	KO4EEL	Tom Williams 25	WB8IMY	Steve Ford 25
KC1NQE	Shawn Warren 25	KR1U	Bob Eslinger 27	WJ1B	Harold Kramer 27
KC1NRD	John Lujick 27	KS1WK	Seth Kolasinski 25	WV2LKM	Steve Waldmann 25
KC1NRQ	Bruce Childs 25	KX1USA	Rob Messercola 25	WX1W	Mary Duval 25
KC1OCS	Richard Dewick 26	NOHIO	David Koerner 25	WY1U	Tim Mik 25
KC1OGL	Paul Randazzo 25	N1AKN	Jeff Dwyer 26		Lucas Molloy Y
KC1OWD	Kevin Van Keuron 25	N1API	Al Kaiser 30		Spencer Rygiel Y
KC1OYN	Rick Becker 25	N1BRI	Brian Beegan 26		

