



**We Are
All
About
Ham
Radio!**

LIMARC.ORG

Come Visit LIMARC for Ham Radio Field Day



Seamans Neck Park, Seaford, NY

June 28—29, 2025



Greetings!

A great deal of planning goes into LIMARC's preparations for Field Day. We want the set-up to be as smooth as possible, and with 7 stations to be set-up, as well as the computers, networks, and of course, food and refreshments, we try to plan accordingly.

Field Day is many different things to each of us but there is common ground. It should be a learning experience, a chance to get on the air for many who cannot be on the air regularly, a chance to try out some different equipment, and a fun event and social gathering. Field Day is a 24 hour on the air event, as well as the additional time required to set-up and takedown. It is one of the few events where all members should be able to find a few moments to come out at dawn to support the event.

President's Message (cont.)

Some members will say that they have done it many times before so why go again? Well, you had lunch yesterday but you still come back for lunch today. Food nourishes the body; Field Day can nourish your mind and remind you about the fun and camaraderie available in the hobby.

Please try to attend. It happens June 28th and 29th, at Seamans Neck Park in Seaford. A great venue with lots of great people to meet.

I hope to see you there.

73,

Richie, K2KNB

President

2025 Field Day Time Slots and Stations

LIMARC is ready to accept your requests for Field Day 2025 time slots, and stations, at Seamans Neck Park in Seaford! Please go to this address for more information and request your favorite time and station to operate:

<https://limarc.org/field-day-2025>

LIMARC Board Meeting Minutes 2025-05-07

Officers present: President - Richie K2KNB, Vice President - George WB2IKT, Secretary - Ken WB2KWC, Treasurer - Jerry WB2ZEX

Directors present: Harry KC2FYJ, Ken KD2GXL, Martin W1EMR, Glenn WB2QDS, Al W2QZ, Peter KC2ZVT

Guests present: Larry W2LAG, Steve WB2KDG, Sig KB2HHU, Paul WS2N, Gary W2MIT, George KD2FIU, Les K2TGW, Steve WB2WAK

The meeting was called to order at 7:30 pm.

The board voted to accept the draft minutes of the March board meetings as corrected.

Richie K2KNB reminded us to check in to the morning nets on W2VL and the Friday evening nets on 220 MHz and 1.2GHz.

We had a discussion of nets both current nets and potential topics for future nets.

We will be putting up a second WA2LQO repeater (UHF) in Middle Island.

Hamfest: Gene may not be at our Hamfest. We need help setting up before 6 am. Peter KC2ZVT has found a new source of Port-A-Potties with a lower cost. We will be using them at the Hamfest and at Field Day.

Public Relations: Larry W2LAG has taken on the role of Public Information Officer and is doing an excellent job.

We are still failing at education; we need to do a better job in getting some classes set up.

Vice President: George WB2IKT said that the program for the May meeting will be Field Day part 1; part 2 will be given at the June meeting. George received positive feedback about the talk he gave to the IEEE. George is working to improve the Log. He has instituted a new "Heard on LIMARC Nets" column and would like to start a "LIMARC and the Law" column talking about things such as HOA restrictions. George is also working on a project to bring the ads in the Log up to date and remove those for companies no longer in business.

LIMARC Board Meeting Minutes 2025-05-07 (cont.)

Membership: We have 316 members which is close to what we had last year.

ARES: Ken KD2GXL said that the next ARES meeting will be at 7:30 pm on May 8. The topic will be preparation for the MS Walk on May 17. The May 22 meeting will discuss the American Diabetes Association bike ride.

Tech Committee: Charlie KE2AWX is taking over the Tech Committee. All is running well. Pat WB2CMF had to reset the clock on the repeater.

Field Day: We will be saving money this year by using Rob KC2ILP's van as well as lower cost Port-A-Potties found by Peter KC2ZVT. We need people to volunteer for setup at 7:00 am Saturday morning. Setup should be easier this year because we will not be using the ladders to mount antennas.

Gary W2MIT suggested that people should use phonetics when we have difficulties understanding their calls.

The meeting adjourned at 9:43 pm

Votes/Actions:

1 – The board voted to accept the draft minutes of the March board meetings as corrected.

Respectfully submitted;

Ken Gunther WB2KWC

LIMARC Secretary

LIMARC General Meeting Minutes 2025-05-14

The meeting started at 7:30 pm with the recitation of the Pledge of Allegiance.

President: Richie K2KNB said that we have many upcoming events. Our outdoor Hamfest will be on June 8, we need people to arrive early to put up the fencing so that nobody can sneak in without paying. Tonight we would like to welcome a new member and a potential new ham; everyone welcomed Sarah and Phil. Sarah's dad was WA1HEW who passed away recently and she is excited about getting her license. We would like our education committee to teach their classes toward a knowledge of electronics rather than just to pass the license test. Richie reminded us about the Friday night nets on 220 MHz and 1.2 GHz. We also have a morning net at 7:45 am. Members are reminded to avoid the topics of politics and religion.

Vice President: George WB2IKT told us about new features he is trying to add to the Log; one of them is "Heard on the net" which is a summary of net activity on our repeaters. Another feature is "LIMARC and the Law" which covers legal topics such as HOAs.

Membership: We have 319 members.

ARES: Ken KD2GXL told us that the next ARES meeting will discuss the American Diabetes Association Bike Ride.

Tech Committee: Charlie KE2AWX is the new Tech Committee chairman. He is learning all of our systems and hopes to make all of our repeaters plug-and-play.

Field Day: Rob KC2ILP and Peter KC2ZVT are working to get ready for Field Day.

Richie K2KNB told us that we need someone to take down a TA-33 antenna from the roof of a ham that has become a silent key.

Repeater protocol: John KD2ADX reminded us that we should not discuss politics or religion on LIMARC repeaters. If someone tries to start a conversation about one of these subjects please change the topic.

The business portion of the meeting ended at 8:02 pm and was followed by a presentation on how LIMARC hopes to operate Field Day.

Respectfully submitted;

Ken Gunther WB2KWC

LIMARC Secretary

Current Happenings in Nassau County ARES



Nassau County A.R.E.S. normally meets on the second and fourth Thursdays of the month. All are welcome to attend! **June 12th, 7:30pm**

As we turn the calendar to June ARES is concluding its first two events:

1. The ***M.S. Walk at Jones Beach*** on Saturday May 16th. 18 Nassau County ARES members provided radio support and were there for participants who may have needed assistance. The event went off without any incidents, and concluded a successful deployment.
2. This is a new event for us, the ***American Diabetes Association's Ride for the Cure Bike Ride*** on Saturday May 31st. Details from the event are not ready for the Log as the event did not happen before the print date of the log, details will be in the next edition.

Nassau ARES will participate in LIMARC's Field Day, featuring the **Emcomm Trailer** that houses two digital stations as well as a packet/winlink station.

The **next meeting** will be Thursday, June 12th, 7:30pm at the American Red Cross Building located at 195 Willis Ave in Mineola (2nd Floor Conference room). Parking/entrance in rear.

To **join us** or help with the events, please contact Ken at kd2gxl@ncaresmail.net. To join ARES requires very little, an FCC license, a radio and a desire to help and learn. Part of being a licensed radio operator is public service; every time we support an event, we practice our radio skills so that we are prepared for when an emergency arrives (i.e. when the usual local communication infrastructure is inoperable), we can smoothly respond to it.

For further information use the email above or go to: www.nassaucountyares.org

Ken Kobetitsch, KD2GXL

District Emergency Coordinator, Nassau County, NY

LIMARC'S OUTDOOR HAMFEST!

Sunday, June 8, 2025
999 Stewart Avenue
Bethpage, NY 11714
Vendor Set Up begins @ 7 AM
Doors "Open" @ 8:45 AM to
Buyers



Amateur Radio Dealers, Equipment & Parts
Tune-Up Clinic (Get your rig checked!)
Monitors, Computers,
CB Equipment, Electronics

LIMARC's 2024 Outdoor Hamfest

ARRL Information
DXCC and WAS Card Checking



GENERAL ADMISSION is \$8.00

VENDORS: \$10 per space – 3 spaces \$25 – Admission Fee is separate

LIMARC members, their non-licensed spouses and children under 12 are FREE!

ALL PARTICIPANTS must follow NYS and Nassau County Health COVID-19 protocols.

Free Parking for Buyers!

Food & Refreshments Available!

Door Prizes!

[Outdoor Hamfest June 8, 2025 - LIMARC.org](https://limarc.org/hamfest)

Have a Few Items to Sell? LIMARC will have a table set up to sell items for others. There's no charge for LIMARC members. Non-members pay just 10% of their selling price. Please make sure to mark your price and callsign/ID clearly on the item.

Talk-In on W2VL Repeater @ 146.850 (136.5 PL)

For more information, contact our Hamfest Chair Richie K2KNB at 516-694-4937, or email us at hamfest@limarc.org. [Click HERE for directions via Google Maps](#)

Introduction to 2025 LIMARC Field Day

Field Day Serves as LIMARC's Open House.

Field Day is a radio communications event that brings together amateur radio operators (“hams”) within a community. The theme for 2025 Field Day is “Radio Connects” - highlighting how wireless technology connects people across distances near and far. The event is part picnic, campout, practice for emergencies, informal contest, and most of all, fun! Field Day is the most popular ham radio activity held annually in the US and Canada. On June 28 – 29 of this year, more than 31,000 hams will get together with their radio clubs, schools, and friends to operate from remote locations.

For LIMARC, Field Day is one of the highlights of its annual calendar. Our Field Day stations at Seamans Neck Park will showcase multiple aspects of amateur radio and its many roles.

Emergency Readiness

LIMARC uses Field Day as an opportunity to practice emergency communications readiness. It is an annual demonstration and lets the general public see how amateur radio could serve in an emergency. Hams are well-known for their communications support in real disasters and their aftermath. Despite the development of complex, modern communications systems - or possibly because they are so complex - ham radio assumes the role of providing essential communications across areas where the local embedded infrastructures have failed.

Education

Amateur radio inspires the next generation of technical leaders by providing a hands-on sandbox where practitioners and students gain experience in the fields of science, technology, engineering, and mathematics (STEM). Newbies are welcome to try LIMARC’s GOTA station to actually experience the thrill of contacting others over the airwaves.

Incentives

For hams with a competitive spirit, Field Day stations compete to make radio contacts with as many other stations as possible while learning how to operate radios in challenging situations and less-than-optimal conditions. These same skills are used by hams who volunteer to help with large, preplanned, non-emergency events such as marathons and cycling races; fundraisers such as walkathons; and celebrations including parades, and exhibits at fairs, malls, and museums. Despite the competition, we must remember that officially Field Day is NOT a contest, no prizes or certificates exist to be awarded; however bragging rights are a fact of life and ranking of Field Day operations in December’s QST serves as the barometer.

Field Day 2024 Pictures



Richie K2KNB Cooking a Field Day Feast



John KD2AKX, Martin W1EMR, and Charlie KE2AWX
Relax for a Moment in the Heat



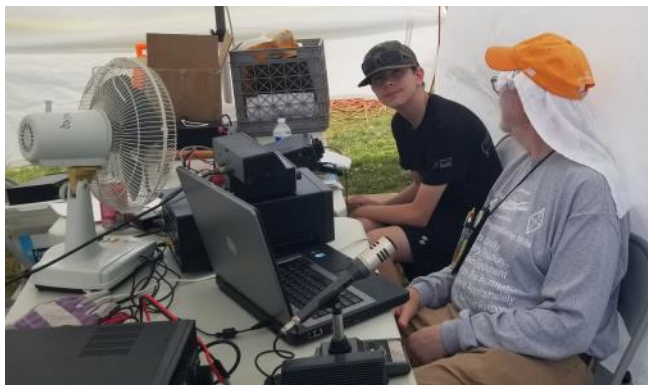
Caleb Sullivan logging and Lew N2RQ
working the radio



Caleb Sullivan Calling CQ as Aiden KE2BXH
Realizes it's a New Contact



Caleb Sullivan and Aiden KE2BXH Tuning the
Band For a New Contact



Caleb Sullivan Listening to Lew N2RQ
Explaining Ham Radio

Introduction to the 902—928 MHz ISM Band - By Joe Wi2M

This article is the third in a series of “introduction and availability of equipment” type articles that I have written. The first was for the 220 MHz (1.25 meter) band, the second was the 1.2 GHz (23cm) band, and finally today we will cover the 902 MHz amateur radio band otherwise known as the 33cm band cohabitating with ISM for unlicensed Industrial, Scientific, and Medical devices.

I have written these articles to promote ham radio in these bands as in my opinion they are underutilized. They are at least equal or sometimes even greater in importance to the more used 2 meter and 70 cm bands and lets discuss why.

The 902 MHz band is allocated to hams from 902 MHz to 928 MHz as a secondary allocation. It is unique to the ITU region 2, which means only North and South America have 902 MHz spectrum for hams to use. A secondary allocation means we are not primary and must share the band with other interests. If ham transmissions interfere with the primary users, we must cease and desist our transmissions.

902 MHz is above the 70cm band in the amateur radio spectrum and it is part of the UHF spectrum. It is a great band for local communications, point to point, repeaters, and repeater linking etc.

So, who uses the 902 MHz band besides hams? Here are some examples at the present time: commercial interests, scientific devices, medical equipment, simplex two way radios, repeaters, mesh networks (Meshtastic), home automation, Z-Wave devices, and cordless phones to list a few examples.

So one of the reasons for my articles promoting these three bands is the old adage “use it or lose it” and this is most prevalent for the 902 MHz band. Why do you ask?

In 2024 NextNav Inc, is a company that deals in 3D geolocation services, appealed to the FCC in a formal petition to privatize the entire 902 MHz band for commercial interest excluding all other interests including amateur radio, and to me that’s the definition of “use or lose it”.

The FCC opened this up for comments by all. Visit the FCC web site if you wish to make your opinion known.

[ECFS - Filing Search Results](#)

So we now have the knowledge of how important it is to use the 902 MHz spectrum, what’s next? We get on the air!!

Of the three bands I’ve covered the 902 MHz is the most difficult; so lets take a look at what new or used equipment is available for the band, and keep in mind that this is just a sample.

Introduction to the 902—928 MHz ISM Band (cont.)

The first up is a Motorola MTX 9250, a 2.5 watt HT that is sold for the commercial market. You can pick them up used for around \$125. It is set up to operate outside the ham bands. Wait? We are hams right? So why am I showing you commercial gear?

That's the difficulty in 902 MHz, there is not much amateur radio equipment made for the band due to the fact it is only available in the Americas, so we must adapt and make it our own, and one way we do that is to reprogram these radios to operate in the ham bands.

We are amateur radio operators. It is in our nature to take equipment not made for hams and modify it for that use, and I'll get into how a little later in the article.

[Motorola Mtx 9250 for sale | eBay](#)

HOME / PORTABLE

/ MOTOROLA MTX9250 900 MHz 160 CHANNEL 2.5 WATT RADIO (COMPLETE KIT)

Motorola MTX9250 900 MHz 160 Channel 2.5 Watt Radio (Complete Kit)

Motorola

★★★★★ (No reviews yet)

[Write a Review](#)

\$110.00



used-radios.com

Alinco DJ-G29T
222-902 MHz HT

Discontinued!

Please check our Used List

Accessories

← back

ALINCO

[Features](#) | [Specifications](#) | [Accessories](#) | [Front Controls](#) | [Side Controls](#) | [Key Pad](#) | [Display](#) | [View Larger](#)

Features

- 222/902 MHz TX/RX
- 500 Alphanumeric memory channels
- Twin dials
- Spectrum Display
- Backlit [dual display](#) with contrast/brightness adjust
- CTCSS/DCS encode/decode
- DTMF tones and autodial memories
- Crossband Repeater Function
- Illuminated [keypad](#)

The ground breaking **Alinco DJ-G29T** dual-band transceiver gives you operation on the 222 (1.2m) and 902 MHz (33cm) amateur bands. Power output is up to: 5 watts on 222 MHz and 2.5 watt on 912 MHz. Refinements include: twin user-assignable controls, spectrum display, backlit display and key pad, die-cast chassis, internal VOX and external 13.8 VDC jack. This rugged unit mean IPX7 standards.

This DJ-G29T comes with the EDC-170 AC wall adapter, [EDC-173T charging base](#), EBP-73 7.4V 1200 mAh Lithium-ion battery, flexible SMA rubber duck antenna and strap. (61x106x38mm 296g).

OK, next up is the only made for amateur radio gear in this review and it is the Alinco DJ-G29T. It is an HT and unfortunately it has been discontinued by Alinco so it is only available on the used market.

This HT covers 220/902 MHz ham bands so it is right up my alley. I do not own this radio but it comes highly recommended. When new it sold for around \$289. Advantages to this radio are the ease in programming and usage. Programming via the front in the 902 MHz market is a luxury and you will see why further in the article. If you come across this radio on the used market, I would recommend that you consider it as it a two-fer (as we say in NY); it covers 220 MHz, as well as the 902 MHz bands!

[Alinco DJ-G29T 222/902 MHz Handheld Ham Radio Transceiver *RARE* | eBay](#)

Introduction to the 902—928 MHz ISM Band (cont.)

Next up is another Motorola offering and it is the XPR 6580. I own this radio so I can attest to it

This a great economical choice. I purchased this one used for \$20!! This was a great way for me to get on the 33 cm band!

These are commercial band radios. Many companies are upgrading their radio systems. These older units are flooding the used market at pennies on the dollar of what they sold for when new.

Again the caveat warning is these radios need to be reprogrammed for the ham band but more on that later.

[Motorola Xpr 6580 for sale | eBay](#)



Next up we have an offering from Kenwood, it is the TK-981. Ah yes Kenwood, ham right? Wrong. This is also a commercial band radio. I know very little about this radio nor how to program it. Buyer beware and do your research. They sell used for around \$150 to \$500! So shop around.

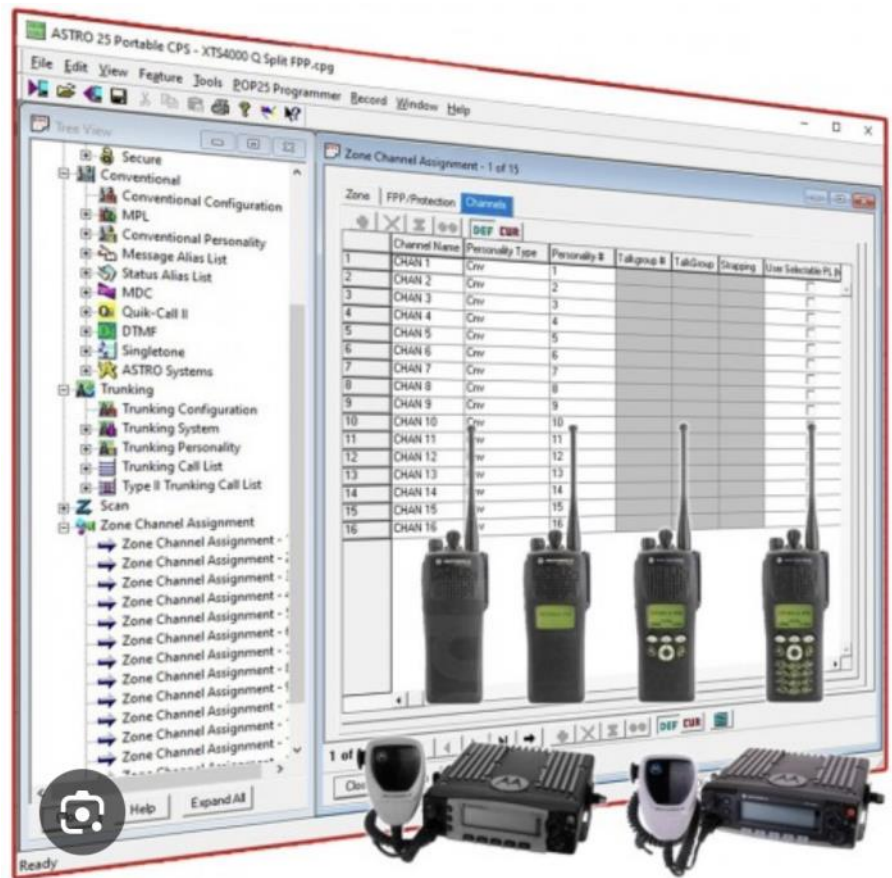
But like I said, they come highly recommended on the internet. Take a look at the web site I came across; again buyer beware as not everything we read on the internet is fully accurate.

<https://www.kw902.com/981generalinfo.html>

Introduction to the 902—928 MHz ISM Band (cont.)

So, what's all this talk about reprogramming? Lets scratch the surface, as I am no expert in Motorola programming. My claim to fame was that I successfully programmed my Motorola XPR 6550 for the 70cm band with a DMR and FM code plug.

So you have a Motorola radio. You'll need the software which is known as CPS Programming Software. Find the correct version for the radio you want to program. Common versions are 1.6 and the newer version 2.0



If anyone has the TYT CPS software, it is suspiciously similar to the Motorola CPS so if you're versed in the TYT you have a head start.

But before you begin programming repeaters and simplex frequencies, you must program the radio to operate on the ham bands. Do your research or find some hams well-versed on this type of conversion and willing to do it for you.

— — — — —
Ed. Note: RT Systems, a LIMARC donor, offers programming tools for the Alinco DJ-G29T.

https://rtsystemsinc.com/APK-G29-Programming-Software-and-USB-57B-for-the-Alinco-DJ-G29_p_167.html

Introduction to the 902—928 MHz ISM Band (cont.)



New York City
Long Island
Poughkeepsie
Utica
Albany
Plattsburgh

NYC:	10 Meters	6 Meters	2 Meters	222 MHz	440 MHz	902 MHz	1.2 GHz	Linked Nets	Search
ENY:	10 Meters	6 Meters	2 Meters	222 MHz	440 MHz	902 MHz	1.2 GHz	Linked Nets	

Data Sorting

New York City & Long Island - 902 MHz
as of May 21, 2025 05:00Z

Column Explanations

FREQ	OFFST	ST	CITY	CALL	MODE	CODE IN	CODE OUT	STATUS	COUNTY	VOIP	LINKS/COMMENTS	Last Update
927.0125	-	NJ	Alpine	KB2OCJ	NFM	141.3	141.3		Bergen		HC	2014/01/15
927.0375	-	NJ	Wayne	KB2OCJ	NFM	141.3	141.3		Passaic		HC	2014/01/15
927.0500	-	NJ	Greenbrook	KC2VRJ	NFM	141.3	141.3		Somerset			2014/03/02
927.0625	-	NJ	West Orange	KB2OCJ	NFM	141.3			Essex		HC	2014/01/15
927.0625	-	NY	Pomona	KC2GOW	NFM P25	100.0 NAC293	100.0 NAC293		Rockland		KC2GOW Net	2020/12/29
927.3125	-	NY	West Islip	W2YMM	NFM	D806	D806		Suffolk	A 28183		2024/11/10
927.3375	-	NJ	Little Falls	W2VER	NFM	141.3	141.3		Passaic			2014/01/15
927.3625	-	NJ	Belle Meade	KB2EAR	FM	141.3	141.3		Somerset			2014/03/02
927.5500	*	NY	Otisville	N2ACF	NFM	123.0			Orange		*Input: 902.0125 (-25.5375 MHz), N2ACF Net	2025/05/14
927.6375	-	NY	Manorville	K1IMD	NFM	131.8			Suffolk		HC	2014/01/15
927.6875	-	NY	Manhattan	W2RN	NFM	D532	D532		New York			2014/01/15
927.7000	*	NY	Staten Island	KC2GOW	NFM	100.0	88.5		Richmond		*Input: 902.0375 (-25.6625 MHz), KC2GOW Net	2024/05/08
927.7500	*	NY	Pomona	N2ACF	NFM	118.8			Rockland		*Input: 902.0125 (-25.7375 MHz), N2ACF Net	2021/05/05
927.8500	*	NY	Orangetown	N2ACF	NFM	114.8	94.8		Rockland		*Input: 902.0125 (-25.8375 MHz), N2ACF Net	2025/05/14
927.9375	*	NY	Manhattan	KQ2H	NFM	151.4		OFF	New York		*Input: 902.0125 (-25.925 MHz), KQ2H Net	2014/01/15
927.9875	-	NY	Valhalla	WB2ZII	NFM	114.8			Westchester			2015/12/24

© 1999-2025 New York Repeater Directory

So you've done all of the above and are ready to get on the air, the question is where. Above is a list from the NY Repeater directory showing all the 902 MHz repeaters in the NYC/LI area. Give them a try and see if you can access any.

So far I've been successful on three repeaters and have made contacts!

Can't make any repeaters? Get in with some ham friends and go simplex, and use your own 902 MHz equipment to chat at a hamfest.

Nothing is more disheartening than to see hams at a hamfest texting! Use your spectrum, experiment, and most of all have fun.

If anyone wants me to review any other bands just let me know. If you want to set up a schedule on any of the three bands I have covered in this series of articles just catch me on the air, or send me a message on QRZ.com!

73

Joe Wi2M

Introduction to the 902—928 MHz ISM Band (cont.)

Ed. Note: Update from ARRL regarding 902 –928 MHz Amateur Radio Band

ARLB006 ARRL Renews Defense of the 902-928 MHz Amateur Radio Band

ARRL The National Association for Amateur Radio in a recent filing encouraged the Federal Communications Commission (FCC) to listen to industry stakeholders about the detrimental impacts that changes to the 902-928 MHz band would have for current users.

The FCC is considering a petition by NextNav, Inc., a licensee in the 900-MHz Location and Monitoring Service (LMS), to reconfigure the 902-928 MHz band to obtain more spectrum for itself and replace the LMS with high-power 5G cellular and related positioning, navigation, and timing (PNT) services that would supplement GPS. ARRL filed comments opposing NextNav's proposal in September 2024.

ARRL's latest filing was submitted on May 13, 2025, by the association's Washington Counsel in response to an inquiry initiated by the Commission to consider more broadly ways to improve and harden GPS. ARRL's response echoes concerns of many others and underscores the need to improve and harden the current GPS system in a manner that doesn't impact radio amateurs and other users of the 902-928 MHz band. The band supports an extraordinary number of unlicensed consumer devices used by consumers both inside and outside the United States with which radio amateurs co-exist.

"ARRL strongly agrees with the many parties that point out in the record of this proceeding that, in working with its sister federal agencies on this issue, one of the Commission's primary goals should be to ensure that existing services already operating in the spectrum, such as in the crowded 902-928 MHz band, should not be disrupted by complementary PNT if equal or better means are available. Many billions of unlicensed devices are in use to provide hundreds of applications and functionalities to the American public, and the number of devices and the functionalities that they provide continue to grow.

Introduction to the 902—928 MHz ISM Band (cont.)

"These devices coexist with amateur radio operations in the 902-928 MHz band but they as well as amateur radio operations would be displaced if a 5G-like PNT service was authorized to use this spectrum."

In the instant proceeding the FCC addresses GPS concerns holistically that also are being addressed by multiple other federal government agencies under the direction of the President. ARRL emphasized the FCC's expertise and role in making the best use of the spectrum resource.

"We commend the Commission for initiating this proceeding to take a holistic approach to the problem and possible solutions thereto, rather than a piece-meal approach that might have led to systems that would unnecessarily use valuable spectrum with inferior results and take years longer to construct from scratch. The Commission is the civilian spectrum expert among the collection of agencies that are addressing this issue. We rely on the Commission to make clear the value of each megahertz of spectrum and the trade-offs in designating any particular band for the purpose of complementary PNT."

ARRL's filing is intended to emphasize the public interest in protecting amateur and others' access to the 902-928 MHz band and to highlight that other, less disruptive options are available for PNT.

ARRL will continue to defend amateur access to this and other threatened amateur allocations.

ARRL The National Association for Amateur Radio®

QST de W1AW

ARRL Bulletin 6 ARLB006

From ARRL Headquarters

Newington CT May 14, 2025

Grade, Elevation, and GPS Accuracy

Most GPS devices are not as accurate with elevation data as they are with road and path data. Don't be so certain that your GPS is giving you the "true" height of your favorite hill. Learn about elevation data between routes, activities, and different recording platforms, and set expectations for a margin of difference between examples. This article was written specifically for bicyclists but is applicable to anyone travelling using a GPS device.

Elevation on Routes and Activities

Activities and routes are not directly comparable, because they are somewhat different.

An activity is a GPS recording of a trip already taken that calculated elevation gain and loss from the barometric altimeter of the device (phone or GPS computer) used to record it. These recordings are more accurate than the available estimated data sets on routes.

A route is a planned trip for GPS navigation including elevation gain and loss estimates calculated with an elevation dataset built into *Route Planner S/W*. Because of how this data was collected, routes may have less accurate elevation data.

Elevation on Planned Routes

Most GPS devices use estimated elevation data on routes that come from a data set collected via radar by a shuttle mission in the early 2000's (SRTM). The resulting elevation data is a grid made up of points every 90 square meters (or about 1/3 the size of a tennis court). For each point in a route it calculates estimated elevation using this dataset, with some added math to interpolate between points to increase accuracy (i.e., when a route point falls in between two data points, it calculates to estimate the elevation at that point.)

Elevation on Activities

Activities recorded on a device use either barometrically measured elevation (high accuracy, but can be off due to calibration issues) or GPS-derived elevation (poor accuracy). Most phones and GPS computers released in the last few years use a barometer for elevation recordings.

In order to calculate gain and loss, the S/W mathematically "smooths" some of this recorded data to minimize error accumulation, and then sum the elevation delta from point to point.

Compare Routes Between Devices and Software

There are a few factors that contribute to differences in elevation calculations on activities between devices: logging frequency, data collection method, and the software itself.

Logging frequency.

Most GPS devices allow you to choose how often the device logs a data point. The more frequently GPS data points are collected, inherently increases the changes in elevation. *Ride with GPS* S/W is set to log every 2 seconds by default, and you can manage this frequency in your app settings. Increasing the logging frequency from 2 seconds to 1 second effectively doubles the number of data points recorded.

Data collection method.

Many GPS units and current smartphones have a barometric pressure sensor. Barometric sensor data is the standard way that most software collects elevation data, but some older phones may not have a barometric sensor. If your phone isn't using a barometric pressure sensor while recording, then it is likely using GPS-derived elevation, which is much less accurate. Things like an incoming storm or entering a building can affect your barometer, but in practice, air pressure provides much greater accuracy than GPS-derived elevation. Devices that calculate elevation based on GPS data points leverage triangulation from satellites that are remote and too far away to accurately determine incremental changes in elevation.

Software.

The data that is collected while recording is first processed on the device, whether that be your Garmin unit or smartphone. GPS is a messy data stream, so the device you are recording with utilizes an algorithm in the software to filter out bad data points.

Each algorithm has varying levels of thresholds and tolerances for bad data points, and these variations filter out different data points, so the end result is different. The elevation differences between software algorithms should be no more than 10% in either direction.

Deep Dive on Activity Data

Here's an example to help illustrate why your activity data is smoothed: imagine you are riding on a mostly flat route, and using a Garmin with a barometric pressure-based altimeter. That altimeter has some amount of error in it, so every couple of points it "pings" a value different from the previous point. If we just added up all the elevation deltas from point to point, we'd have a ride that has a claimed gain and loss of thousands of feet even though it's a very flat route.

To avoid this, we smooth out this error using some techniques used in signal processing. It's not perfect and yields slightly different results depending on how big the error is (GPS vs barometric pressure, different brand sensors, etc.) and how frequently the points are logged. Good techniques are consistently within 10% of what a barometric pressure-based Garmin unit will state for elevation gain and loss, and recordings are consistently within 10% of the elevation the route planner states they will be.

There are deviations from this depending on the quality of the elevation datasets (city vs forest vs flat plains, etc.), which are unfortunately unavoidable. The industry has tried many different methods of calculation over the years, and all that happens is that one type of data becomes more "accurate" and another type less. "Accurate" is in quotes, because it's relative to a specific brand of sensor and a specific algorithm used by a specific piece of software. Some people think *Garmin* is the most accurate source of truth, others *Strava*, and others *Ride with GPS*. The truth is that each system provides an estimate using assumptions, which take into account tradeoffs.

The important thing is to be consistent - if you plan a route with software, and you see 3,500 feet of elevation gain, when you ride the route you know what to expect. If a different service says it's 4,500 feet, and another says it's 3,000 feet, it doesn't matter, because the important thing is that you can estimate the difficulty of a planned route, and know what it will feel like to ride it.

Using the *Replace Elevation* feature on a recorded activity can help in some cases, where the activity was recorded with a GPS unit or phone that does not have a high accuracy barometric pressure altimeter.

Generally speaking, elevation datasets are better than GPS-derived elevation and generally are worse than barometric pressure derived elevations. The *Replace Elevation* feature replaces the recorded elevation values with values derived from stored elevation datasets.

GPS Drift

GPS drift can occur when passing over a bridge or through a tunnel. Most people have seen this on occasion - a GPS unit or mobile phone records a line that drifts from the road on a map. Sometimes this drift can look erratic, depending on the quality of signals the GPS unit received. If this happens while you are riding through the hills where the road traverses a slope, you can see large errors in calculated elevation gain and loss. This is because the GPS point has you off the side of the road by 50 or 100 feet on occasion, which in the case of a road on a scenic hill means the elevation point sampled from our datasets is either down or up the slope!

GPS is highly accurate in the horizontal plane, but very poor in the vertical. This is due to the angle between the line of sight to the various GPS satellites and the ground. Small errors result in big differences in height, but not big differences in location on the earth. As such, a barometric sensor is going to give you the best elevation measurement; using the replace elevation feature follows closely behind the barometer measurements, and GPS-derived elevation pulls up the rear. There are some factors that can affect barometric pressure, like an incoming storm, entering a building, or riding through an inversion. These conditions don't usually cause large errors from point to point but usually make the whole ride shift up or down in elevation.

How do I improve my GPS accuracy?

All GPS receivers (including those on your phone, Garmin, Wahoo, Hammerhead, etc.) will be affected by these building and terrain situations. The most "accurate" conditions are when the device has a clear view of the sky on open terrain.

- Stay away from large metal structures like tall buildings, tunnels, and power lines.
- Keep other electronics away from your device. Keeping your smartphone right next to the GPS might cause some drift.

Refer to: [Activities vs. Routes – Ride with GPS Help Center](#)

Article adopted from:

[Ride with GPS: The Most Trusted Platform for Cycling Routes and GPS Navigation](#)

Join LIMARC Groups.io

This Groups.io Group, known as the "LIMARC Reflector" is open to LIMARC members in good standing. The LIMARC Reflector is used to post club notices, activities, and allow LIMARC members to share articles or postings, and their ideas about amateur radio and club-related materials amongst each other.

Go to <https://groups.io/register> Then complete the Email address and Password fields, then click or tap the *Create An Account* button. Search for LIMARC and join. The moderator will notify you within 48 hours about your acceptance to the group.

Anti-Virus Programs Shortcomings

- by Uwe, DG2YCB

In the past days I received some emails telling me that some antivirus software gave alerts for the latest WSJT-X Improved Windows installer. I can assure you that no program compiled by me has ever contained any virus or Trojan. In addition, every file on SourceForge is scanned again for viruses. This leaves only the minimal theoretical risk of a so-called man-in-the-middle attack, i.e. someone intervening during the download and injecting malicious code. With https connections, however, the probability of this happening is as low as being hit by a comet today.

The procedure for such false positives is always the same: Please contact the antivirus software providers concerned and ask them to scan the file in question. So far, not a single real virus has ever been detected in any program compiled on my computers (i.e. all WSJT-X, WSJT-X Improved programs of the last 3 years).

The **reliability of antivirus programs has diminished** considerably in recent times. Instead of scanning themselves, other criteria are simply used nowadays. If the file is from companies such as Microsoft, etc., it is classified as harmless. If the provider is not on such lists, the program is already “suspicious”. If then the program also has to communicate via TCP or UDP, it is immediately classified as virus-infected, regardless of whether it actually contains a virus or not. I probably don't need to mention what I think of this, because conversely, it also means that such antivirus software is just as unlikely to detect real threats.

Remember: With WSJT-X (or WSJT-X Improved, but that's just an extended version of it), PSK Reporter has to communicate over the Internet. For the connection to JTAlert and to the logging software we need communication via UDP. The radio must be connected via COM ports or TCI. In addition, we have shared memory usage between wsjtx.exe, qmap.exe and jt9.exe. It's no wonder that antivirus programs initially classify this as “suspicious”.

But now comes the important difference: In the **past**, these providers **really scanned** such program files (and then came to the correct result: everything is virus-free), **nowadays** it is **simply classified as supposedly contaminated with viruses**. And the thousands of users of such antivirus software are so stupid that they still trust them, hi.

Anti-Virus Programs Shortcomings (cont.)

Again, the only solution to this is for you users to send the files in question to these providers for analysis (with the suspicion of a false positive alert). Preferably dozens or hundreds of you should do that! This is the only way to finally stop this nonsense.

The page where each of you can report false-positive virus alerts to Microsoft is this one:
<https://www.microsoft.com/en-us/wdsi/filesubmission>

To all those who are still getting false positive alerts:

Please do me a favor and try to download and install the following package from SourceForge: [wsjtx-2.8.0-win64_improved_PLUS_250501_woMAP65.exe](#)

It is the "250501" code but just without MAP65. Otherwise everything is unchanged (i.e. identical source code, build equipment, Hamlib version, etc.).

Why this? I'm in contact with some of the providers of antivirus software, and one of them told me that their detection engines have problems with the map65.exe file (maybe just because of its size). So it would be interesting to see if dropping MAP65 does anything about those annoying false positive warnings.

73 de Uwe, DG2YCB

- - - - -

I get them all the time with Norton 360. Not only wsjt-x but also win4icom and N1MM+. It happens sometimes when installing and sometimes when running a freshly installed program and I have to "approve" the executable or some other access. **Turning off the antivirus when installing only delays the false detect** to later on when you try and run it.

It seems to be getting worse. Norton just seems to want to flag anything that is not "well know" as some sort of generic bad entity. It will probably help to submit the program to your AV vendor when you get these alerts. That way others won't get hit with it later on and "maybe" they will put these on a whitelist.

73 de Mike, W1NR

Reminder: LIMARC is a 501(c)(3) non-profit corporation. As such, all monetary donations are tax deductible, and equipment donations are deductible either to the amount that the club might sell the item for, or the fair market value. As we try to provide assistance to schools wishing to set up amateur radio programs, please consider us for your donations.

If You Hear Something, Tell Someone

Those of you who use the repeaters on a regular basis are all too aware of the fact that there are certain individuals who have nothing better to do with their time than to interfere with people on the repeater. An organized effort is underway to locate and identify these individuals.

YOU CAN HELP: If you hear malicious interference on any of the LIMARC repeaters, please hit the reverse (HM/RV) button on your radio and see if you are able to hear them on the input. Do not acknowledge the interference on the air. Please email your findings to rfi@LIMARC.ORG. Indicate if you heard them on the input. Include date, time, the repeater, your location and type of antenna; include the heading if you have a beam.



Link to the ARRL NYC/LI Section Website

One can find recent happenings at the ARRL's NYC/LI section website: <http://nli.arrl.org/>

From Lou NY2H

LIMARC has a YouTube channel. In order to subscribe, you can follow the link, or use the QR code on the right.

<https://tinyurl.com/LIMARCYoutube>





ARRL VEC, 225 Main Street, Newington, CT 06111
Phone: 1-860-594-0300 web: arrl.org/volunteer-examiners

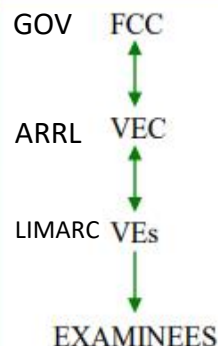
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2. Complete and sign the Volunteer Application form and the open book review. (40 question review). <http://www.arrl.org/files/file/VEs/ARRL%20VEC%20VE%20pkg%202022%20interactive.pdf>
3. Please fax, mail or email forms (Adobe PDF file or scanned JPEG image showing your real signature) to this address:

ARRL VEC , 225 Main Street, Newington Ct. 06111 Email: vec@arrl.org



The VEC serves as the interface between the FCC and the VEs, who administer the exams to the candidates. VEs serve under the umbrella of the VEC, while the VEC supports the VEs and provides data to the FCC for issuance of licenses and resolution of regulatory issues.



LIMARC History

-- compiled by George Sullivan, WB2IKT

50 Years Ago—From the June 1975 Log

LIMARC announced the “Once a Year Dinner Dance” at the Hempstead Holiday Inn. WB2WHH wrote about the escapades and mishaps that happened among 23 cars and 56 people during the Bunny Hunt.

40 Years Ago—From the June 1985 Log

WB2DIN provided a demographic study of FCC Ham License Types across LIMARC, NY State, and the entire US. N2FP reported that 40 members signed up for the annual bowling party. “Please wait for the beep” to avoid timeouts was yet again reiterated by W2NL.

30 Years Ago—From the June 1995 Log

LIMARC offered its members 7 different repeater nets including the Info Net, a Code Practice net, Junior Ops net, Swap & Shop net, YL net, Computer net, and the Tech Net. KE4CAP provided an article about cyberspeak and emoticons. The field day team put up the “help wanted” sign for volunteers.

20 Years Ago—From the June 2005 Log

Request by NY2L for a permanent field day equipment storage site was made. LIMARC had 331 members. Changes to LIMARC’s by-laws were approved 35 to 0 at the general meeting.

10 Years Ago—From the June 2015 Log

K2KNB mentioned that the Cradle of Aviation Museum has asked us to help students have a conversation with the International Space Station. We will be operating a special event station at the Cradle of Aviation Museum to commemorate the anniversary of the first transatlantic solo flight of Charles Lindbergh. WB2ZEX said we have 353 members.

Heard on a LIMARC Net

The LIMARC Tech Net

Meets every Sunday at 8PM on the 146.85 repeater. AC2GS is net control.

All technology may be covered in discussions on this amazing net.

Space Net

Meets every Sunday immediately following the Tech Net. WS2N is net control

LIMARC Infonet

Meets every Monday evening at 8:30PM on 146.85 MHz. Rotating net control assignments

04-28-2025 - 33 check ins. KC2FYJ net control. K2KNB's traffic: 3rd week of morning net operations, looking for participants; 4-30-2025 will be the trivia/nostalgia net at 8:30 PM; proposed Tuesday net at 8:30 PM- details to be provided next week; Friday night nets on 220 (8:30PM), 1.2 GHz (9PM) ongoing; May 7 is the next board meeting open to all; next VE session on May 10 at 8:00 AM at Levittown hall; all LIMARC repeaters have power back-up.

05-26-2025 - 26 check ins. KC2FYJ net control. K2KNB's traffic: hearing a lot of new calls, which is great - new to the repeater? Please check our website - this Wednesday is a computer net at 8:30 PM - all things computers - send questions to computernet@limarc.org. The morning net M-F is at 7:45 AM to 9:00 AM or a bit later to keep traffic up on the repeater - we need to use the spectrum in order to keep it! - Friday night 220 net at 8:30 PM - excellent coverage - 1.2G at 9:00 PM - lots of fun and good discussions occur - join us! All are welcome - fusion repeater up on 5 systems linked together from Hofstra to Middle Island - good Memorial Day to all - Be aware of a scam of on-line purchases along with a very large check - purchaser says to just send the extra money back - be careful! - hamfest on June 8th - vendors at 7:00 AM, buyers at 8:45 AM - runs till around 11:00 AM or so - good opportunity to 'clear out old equipment' - 999 Stewart Ave. next door to the old Briarcliff college - no preregistration required if you want a spot for selling stuff

Swap & Shop Net

Meets every Monday immediately following the Infonet. KD2FIU is net control

Heard on a LIMARC Net (cont.)

Daily Morning Drive Time Net

Begins at 7:45 AM K2KNB is net control The participants discuss traffic, weather, and topical issues during their commutes as well as those who want to chime in with something to say.

Computer Net

Meets monthly on the 3rd and 4th Wednesdays at 8:30 PM. WB2KWC is net control.

05-21-2025 5 check-ins Discussed the Voice Recorder (name changed to Sound Recorder in Windows 11) application. Paul WS2N said it is working better on his desktop machine. Lew N2RQ looked for help pairing it on his iPhone. Anyone with this know-how please contact Lew.

Trivia Net

Meets on the 5th Wednesday at 8:30 PM K2KNB is net control

A fun net with memories, ham radio nostalgia, stories & reminders of the “good old days”.

220 and 1.2 GHz Friday Night Nets

Join us in checking out your 220 and 1.2 GHz equipment along with ad-hoc discussions.

8:30PM 224.82 MHz Pl. 136.5—Glen Oaks Input is 223.22 MHz K2TGW is net control

9:00 PM 1.2880 GHz Pl. 136.5—Glen Oaks Input is 1.276 GHz Wi2M is net control

Your article could have been published in the Log, but you need to submit it.
Original articles about most anything related to ham radio are welcomed.

Contact George WB2IKT about your submission.

Doucette Scout Leadership Center

Dedication Ceremony

Distinguished Eagle Scout and ham radio savant David R. Doucette KB2SQP has dedicated his life to following the principles of the Scout Oath and Law.

Scouting America (formerly BSA) held a ribbon-cutting ceremony on May 30 to dedicate their building on 544 Broadway, Massapequa, NY to Dr. David R. Doucette, PE, Ph.D.

Dr. David is a member of IEEE, LICN, GARC, and is a registered NYS Professional Engineer. He earned his B.S., M.S., and Ph.D. degrees in Electrical Engineering from Polytechnic Institute of Brooklyn, now the NYU Tandon School of Engineering where he taught for over 40 years. He continues to lecture on project management, software engineering, and leadership.

Dr. Doucette achieved career excellence as a global expert and innovator in the field of Computer Programming and Electrical Engineering, serving in senior positions at Northrop Grumman Data Systems and KLD associates.

David was a Cub Scout in Pack 262 and Scout in Troop 174 in East Williston and an Explorer in Post 700. He earned his Eagle Scout rank in 1961. He is a member of the Legacy Society of the National Eagle Scout Association, James E. Wet Fellow, Second Century Society member, Silver Beaver Award recipient, and Diamond Level Member of the Order of the Condor.

Beyond his professional achievements, Dr. Doucette has made significant contributions as a volunteer and philanthropist, perpetuating the mission, values, and time-honored traditions of Scouting for future generations.



Scouting America Ribbon Cutting Ceremony



LIMARC VP WB2IKT and KB2SQP



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<https://engage.ieee.org/IEEE-WF-PST-Sign-Up.html>

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- Public Safety Technologies supporting Eldery and People with Disabilities
- Environmental Impacts with Public Safety Technologies



- Investigate, identify, and prioritize opportunities for existing relevant technologies for solving real-world challenges that public safety agencies are/will be facing
- Research new technologies for filling the gaps in public safety applications
- Launch and lead sustainable activities, products, and services to establish the use of technologies by public safety entities, and generate new revenue streams
- Engage, interact, and collaborate, where appropriate, with public safety associations, industry consortia, academic and government entities

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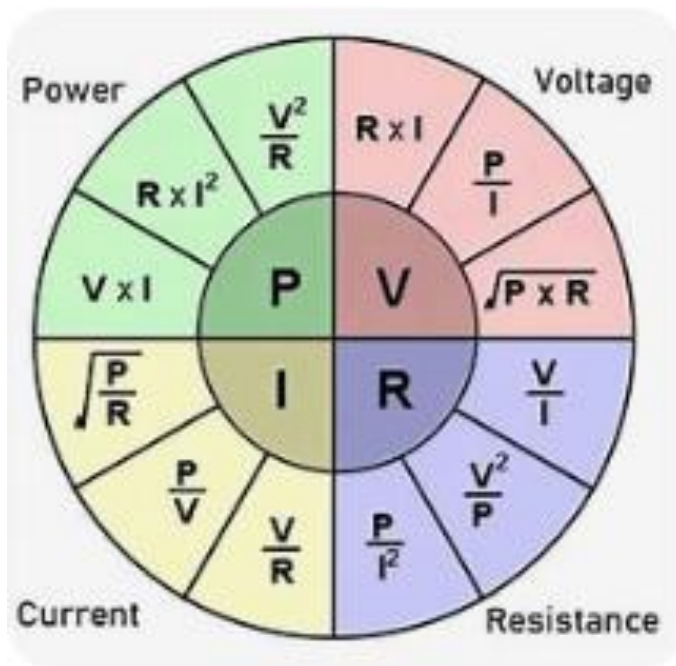
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Where:

V is the electrical potential (voltage), measured in volts (V),
I is the current, measured in Amperes (Amps/A), and
R is the resistance, measured in Ohms (Ω).

Joule's law states that: $P = V \times I$

where: **P** is Power, measured in Watts.

The combination of Ohm's law and Joule's law states 12 formulas where 2 of the 4 variables are known. To use the circle, choose the quadrant corresponding to the variable to calculate, then select the segment corresponding to the known variables' values.



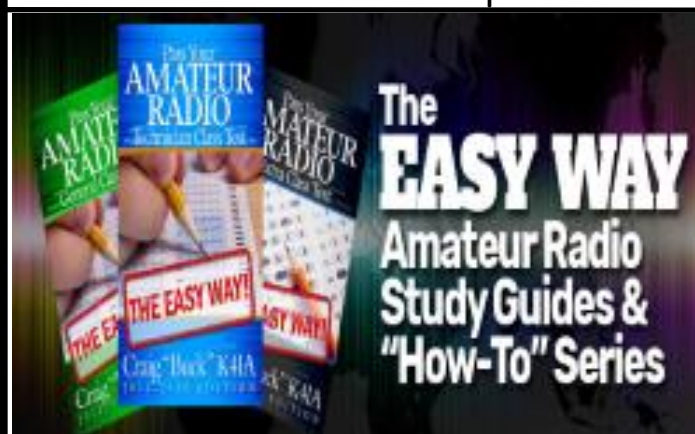
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Testing Schedule for 2025



LIMARC VE Test Sessions are held on the second Saturday of every odd numbered month at Levittown Hall, 201 Levittown Parkway, Hicksville, NY. Please remember to bring **two** pieces of identification (one with a photo), your **original** ham license **and** a copy of it, any **original Certificates of Successful Completion of Examination (CSCE's)** and copies of them.

Also remember to bring the proper fee in check made out to ARRL VEC or exact change (NOTE: the 2024 **exam fee** remains at **\$15.00**). The LIMARC VE Team will supply the FCC Form 605. The F.C.C. **\$35 license fee** applies to all renewals, new applications, and vanity callsign requests, but not license upgrades.

Contact Al W2QZ at (516) 623-6449, or Jim W2KfV at (516) 315-8608 for information. VE Sessions will be held at Levittown Hall. All Saturday VE Sessions start at 8 AM



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PRINT LAST NAME	SUFFIX (Jr., Sr., etc.)	FIRST NAME	STATE
MAILING ADDRESS (Number and Street or P.O. Box)			FCC REGISTRATION NUMBER (FIR) (MANDATORY)
CITY	STATE CODE	ZIP CODE	DAYTIME TELEPHONE NUMBER (including Area Code)
EMAIL ADDRESS (MANDATORY)			
Basic Qualification Question -- "Answer Required in Order to Process Your Application" Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court? <input type="checkbox"/> YES <input type="checkbox"/> NO If "YES", see "FCC BASIC QUALIFICATION QUESTION INSTRUCTIONS AND PROCEDURES" on the back of this form.			
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Signature of Applicant: X _____ Date Signed: _____			
SECTION 2 - TO BE COMPLETED BY ALL ADMINISTERING VEs			
Applicant is qualified for operator license class: <input type="checkbox"/> NO NEW LICENSE OR UPGRADE WAS EARNED <input type="checkbox"/> TECHNICIAN Element 2 <input type="checkbox"/> GENERAL Elements 2 and 3 <input type="checkbox"/> AMATEUR EXTRA Elements 2, 3, and 4			DATE OF EXAMINATION SESSION EXAMINATION SESSION LOCATION VEC ORGANIZATION VEC RECEIPT DATE
I CERTIFY THAT I HAVE COMPLIED WITH THE ADMINISTERING VE REQUIREMENTS IN PART 97 OF THE COMMISSION'S RULES AND WITH THE INSTRUCTIONS PROVIDED BY THE COORDINATING VEC AND THE FCC.			
1st VE's NAME (Print First, MI, Last, Suffix)	VE's STATION CALL SIGN	VE's SIGNATURE (Must match name)	DATE SIGNED
2nd VE's NAME (Print First, MI, Last, Suffix)	VE's STATION CALL SIGN	VE's SIGNATURE (Must match name)	DATE SIGNED
3rd VE's NAME (Print First, MI, Last, Suffix)	VE's STATION CALL SIGN	VE's SIGNATURE (Must match name)	DATE SIGNED
DO NOT SEND THIS FORM TO FCC - THIS IS NOT AN FCC FORM. IF THIS FORM IS SENT TO FCC, FCC WILL RETURN IT TO YOU WITHOUT ACTION.			

LIMARC 2025 Schedule of Events

Month	Bd.Mtg	Gen.Mtg	VE Exam	Hamfest	Other Events
Jan.					
Feb.					
March					
April					
May					
June	11	25		8	Field Day 28-29
July	2		12		Moon Ldg. 20
Aug.	6				
Sept.	3	10	13		
Oct.	1	8			VanMtrPky 10
					JOTA 18-19
Nov.	5	12	8	9	
Dec.	3	10			GARC anv 21

HRU—Ham Radio University

SCR—School Club Roundup

Lindbergh—Anniversary of 1st non-stop transatlantic flight

Moon Ldg—Anniversary of Apollo 11 1st Lunar Landing

VanMtrPky—Anniversary of Opening of Vanderbilt Motor Parkway

JOTA—Jamboree on the Air for Scouting America

GARC— Grumman Amateur Radio Club (callsign: WA2LQO)

Dates subject to change without notice. LIMARC may revise them as required.

LIMARC Repeaters

Analog PL tone is 136.5

Location	Output Frequency	Shift	Callsign	Mode	Echo Link	IRLP	AllStar	System Fusion
Glen Oaks	146.85	- 600kHz	W2VL	Analog	W2VL-R, Node 487981		Node 576290	
Glen Oaks	224.82	-1.6MHz	W2KPQ	Analog				
Glen Oaks	1288	-12MHz	W2VL	Analog				
Hempstead Hofstra U. GARC	146.745	-600kHz	WA2LQO	Analog /Digital				WIRES-X Node:98304 Room:08304
Plainview	449.125	-5MHz	W2KPQ		W2KPQ-L Node 500940	Node 4969	Node 576291	
Plainview	449.375	-5MHz	W2KPQ	DMR CC1				
Selden	147.375	+600kHz	W2KPQ	Analog	W2KPQ-R Node 503075	Reflector Node 9126		
Selden	449.3625	-5MHz	W2KPQ	DMR CC1				
Middle Island	449.075	-5MHz	NY2H	Analog				
East Meadow	145.070		W2KPQ	Packet Digipeater				

Net	Day	Time	Frequency	Net Control
TechNet	Sunday	8PM	146.85	AC2GS
SpaceNet	Sunday	Follows TechNet	146.85	WS2N
Infonet	Monday	8:30PM	146.85	Rotating Schedule
Swap&Shop	Monday	Follows Infonet	146.85	KD2FIU
ARRL NewsLine	Monday	Follows Swap&Shop	146.85	(audio feed)
Computer Net	3rd & 4th Wednesday	8:30PM	146.85	WB2KWC
Nostalgia Net	5th Wednesday	8:30PM	146.85	K2KNB
220 Net	Fridays	8:30 PM	224.82	K2TGW
1288 Net	Fridays	9:00 PM	1288	Wi2M
AM Drive Time	Daily	7:45 AM	146.85	K2KNB



LIMARC Nets

Week Rotation	Net Control
1	N2RQ
2	K2KNB
3	K2KNB
4	KC2FYJ
5	KC2ZVT

GARC Repeater

145.33 WA2LQO
136.5 PL FM Analog
Hauppauge

<u>LIMARC Officers 2025</u>				<u>Directors 2025</u>		
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Published Monthly

From The Editor

As usual, please send items for entry into the LOG to WB2IKT@LIMARC.org. I will be glad to accommodate appropriate requests. If you miss a deadline (the deadline is the 15th of the month) I would be glad to place your item in the LOG next month, space permitting. Thanks, and 73, George WB2IKT - Editor, The LOG