



www.arrl.org

ARCOVER



JUNE 2022

The Official Newsletter of the Fox River Radio League
98 Years of continuous service to our communities

1924  2022

About Us

The Fox River Radio League, Inc. is a general interest Amateur Radio club serving the central Fox River Valley area in Illinois. Club records indicate the club has been in existence since at least 1924, and it has functioned continuously ever since. We are an ARRL Special Service Club, an Illinois not-for-profit corporation, and a 501(c)(3) tax exempt organization as specified in Federal IRS Statutes.

We sponsor training classes for those seeking a new or upgraded Amateur Radio license, license examination sessions, and participation in various local Public Service events. Our membership covers a broad variety of interests - if you have a specialized amateur radio interest, you will likely find camaraderie with one or more of our club members.

We meet on the 2nd Tuesday of every month at Bethany Lutheran Church, located at 8 S. Lincoln St. in Batavia, Ill. The meeting begins at 7:30 PM and includes a short business portion, social time and a program presentation of interest.

Meetings are open to the public. Anyone interested in the amateur radio hobby are invited to attend. Family members are welcome.

Who We Are

President:
Terry Todd W9AUV

Vice President:
Roger Bara W9YU

Secretary:
Art Shuter NN9I

Treasurer:
Dan Harmon WA9YKK

Director 1: NETS / RPTR'S
Ruben Noceda K9ARN

Director 2 Education
Robert Littler W9DSR

Director 3: Activities
Dave Bulkley K9DWB

Director 4: Technical
Adrian Dinwiddle KB9QQL

Past President:
Gordon Dailey KW0E

License Trustee (W9CEQ):
Kermit Carlson, W9XA

License Trustee (W9NE):
Denny Barfuss W9HI

Newsletter Editor:
Jerry Chapman N9JLC

Webmaster:
Mark Van Daele K9MEV

Membership Database:
Chris Kennell, KC9BKS

Net Coordinator:
Curt Sauer, W9YNP

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Fox River Radio League

Mailing Address:
P. O Box 673
Batavia, IL 60510-0673

Email: info@frrl.org

Website: <http://www.frrl.org>



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From
the desk
 of....

The Esteemed

Terry Todd

I'm looking forward to Field Day. I hope you all are as well. If you can't stay for the entire time come on over for whatever time you can. Come to listen, learn and participate. Enjoy the fellowship and the food if noting else.

See you all there.

Terry W9AUV

**President Todd
 Gives A Hardy**

**To Our NEW
 Members !!**



Call Sign	Name	License Class
W9JJJ	Thomas Wade	Tech
K9JTL	John Lansing	Amateur Extra
KC9RVP	James Martin	General
KC9RGF	Scott Martin	Amateur Extra





ARC OVER

FOX RIVER RADIO LEAGUE MEMBERSHIP MEETING MINUTES

May 10, 2022

Minutes of the Regular Meeting of the **General Membership** of the Fox River Radio League (FRRL)
an Illinois not-for-profit Corporation

Meeting Minutes May 10, 2022

The January meeting of the Fox River Radio League was conducted at Bethany Lutheran Church in Batavia, IL. There were 31 members in attendance and 6 members attended via zoom.

The meeting was called to order at 1930CST by President-Elect Terry Todd, W9AUV

Board members present. Terry W9AUV, Roger W9YU, Art NN9I, Dan WA9YKK, Ruben N9ARN, Robert W9DSR, DAVE K9WDB, Adrian KB9QQL on Zoom.

Minutes: Acceptance of the April 12, 2022 Membership Meeting minutes as printed in the ArcOver were approved by the membership. Motion: Dave K9WDB 2nd: Mike K9FE

Reports:

Repeater: Ruben N9ARN reported that the repeater committee visited the Elburn site and did some maintenance at the site. Kermit W9XA reported a change to repeater 147.21. It will now be necessary to key the repeater for 2 seconds and give your call to activate.

VE Update: Denny W9HI reported there will be a VE Session this week.

Old Business:

A motion was moved by Robert Littler W9DSR, 2nd by Gordon Dailey KW0E, to approve the appointment to Life Membership of the following members: Roger Bara W9YU, William Capper WB9LPW, Kermit Carlson W9XA, John Daly W8ACI, Allen Nelson KB9VO, Douglas Reneker W9RD, and Mike Urso K9FE. The motion was passed with a voice vote.



New Business:

Mike K9FE suggested we continue the 50/50 raffle and also include some type of equipment raffle every few months.

Field Day: It is time to start thinking about Field Day! The forest preserve has been reserved, we will run 7-A again, Friday afternoon/evening setup people will be needed. Please consider being a band captain this year. A band captain for 40 meters phone is still needed. Contact Dan, WA9YKK for more info.

Adjournment: Motion to adjourn Dean KC9EOQ, 2nd Mike K9FE

Program: ARES presentation

Respectfully submitted,
Art Shuter – NN9I
FRRL Secretary



**JUNE
2022**

**FOX RIVER
RADIO LEAGUE**



**June is:
Effective
Communications Month**

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
			1	2	3	4
5 1900 FRRL INFORMAL ALL OPER NET	6 CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	7 1900 FRRL BOD Meeting 1930 FRRL 2m Net	8	9	10	11
12 1900 FRRL INFORMAL ALL OPER NET	13 CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	14 1930 FRRL 2m Net	15	16	17	18
19 	20 <i>Deadline</i> CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	21 1930 FRRL 2m Net	22	23	24	25 FRRL FIELD DAY
26 FRRL FIELD DAY	27 CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	28 1930 FRRL 2m Net	29	30	MEMBER MEETING BETHANY LUTHERAN CHURCH 8 SOUTH LINCOLN ST. BATAVIA IL	
WCRA 2m Net 8pm 145.31 -6 107.2	VARA 2m Net 8pm 146.79 -6 107.2	FRRL 2m Net 7:30pm 147.21 +6 103.5	Kane County ARES 2m Net 6:30pm 145.47 -6 103.5	Northern Illinois ARRL 70cm Net 7:30pm 444.875 +5MHz, 114.8		

Fox River Radio League

News & Information

Local - National - International



Fox River Radio League LIFETIME MEMBER APPOINTMENTS

50 YEARS AS A HAM

**CONSECUTIVE 10 YEAR MEMBER
OF THE FRRL**



Congratulations



STATE OF ILLINOIS

EXECUTIVE DEPARTMENT

Proclamation

WHEREAS, amateur radio has historically played a significant role in developing worldwide radio communications; and,

WHEREAS, amateur radio operators are instrumental in serving the United States and the state of Illinois by consistently providing behind-the-scenes support for emergency response and other critical needs; and,

WHEREAS, amateur radio provides excellent volunteer communications for agencies including the Illinois Emergency Management Agency, Illinois Department of Public Health, National Weather Service, the American Red Cross, the Salvation Army, Central Illinois Earthquake Consortium, and others in times of natural disaster and other emergencies; and,

WHEREAS, Illinois has more than 20,000 amateur radio operators who repeatedly donate time, equipment, and services to help their communities; and,

WHEREAS, by continuous learning and experimentation, amateur radio operators help to forward the science of electronics and radio-related communications; and,

WHEREAS, Illinois radio amateurs will continue to hone their communications skills by operating during the national simulated emergency preparedness exercise known as "Field Day" June 25 - 26, 2022;

THEREFORE, I, JB Pritzker, Governor of the State of Illinois, do hereby proclaim June 2022 as Amateur Radio Month in Illinois.

In Witness Whereof, I have hereto set my hand and caused the Great Seal of the State of Illinois to be affixed.

Done at the Capitol in the City of Springfield,
this TWENTY-THIRD day of MAY, in
the Year of Our Lord, two thousand and
TWENTY-TWO, and of the State of Illinois,
two hundred and FOURTH.

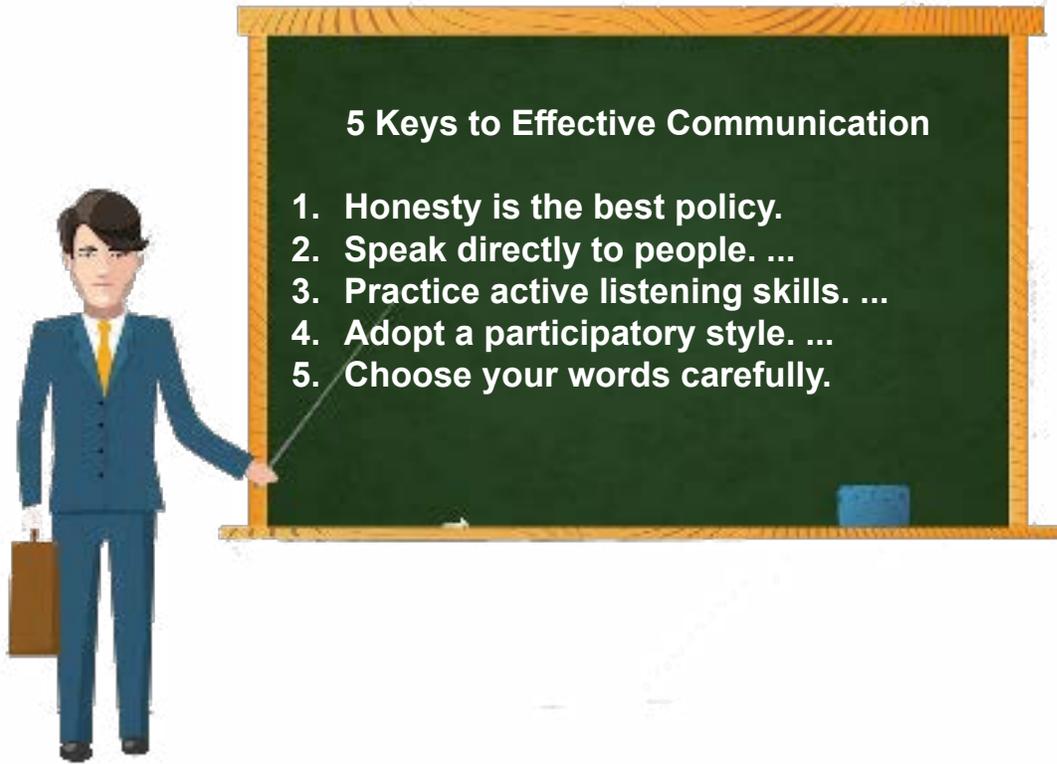


Deese Witt
SECRETARY OF STATE

JB Pritzker
GOVERNOR



June is: Effective Communications Month



You can apply these skills in your every day life as well as your amateur radio use.

Below are events to practice your “Effective Communications” skills !!

ARRL Contests

June 2022

4-5 International Digital Contest

Click Here for more information <http://www.arrl.org/arrl-digital-contest>

11-13 June VHF

click here for more information <http://www.arrl.org/june-vhf>

18 Kids Day

Click here for more information <http://www.arrl.org/kids-day>

25-26 Field Day

Click here for more information <http://www.arrl.org/field-day>

<http://www.arrl.org/contest-calendar>



Illinois Section SM Newsletter

A lot of things have happened over the past several months and there will be more to come.

On April 19, the FCC \$35 application fee went into effect.

Unfortunately, things have not gone well. The latest information available is:

On Wednesday, April 27, in a notice to all VECs, the FCC again asked them to refrain from submitting any amateur radio exam session or license application files while the Commission works to resolve an issue with the Universal Licensing System (ULS) application filing system.

The ULS application filing system was not functioning properly last week and then the FCC indicated the problem was resolved, as previously reported by ARRL. However, this was not the case, as no new amateur radio call signs and licenses have been issued since Monday, April 18, 2022.

Tuesday, April 19 is the day the FCC application fees became effective for amateur radio. Amateur radio license filings are currently on hold until further notice and FCC did not estimate how long the system would be down. View the entire news story on the ARRL website:

<http://www.arrl.org/news/fcc-not-processing-new-license-applications>.

The ARRL Youth Licensing Grant Program went into effect on April 19, 2022. ARRL will cover the one-time \$35 application fee for new license candidates younger than 18-years old for tests administered under the ARRL VEC program. The \$35 FCC application fee will be reimbursed after the ARRL VEC receives the completed reimbursement form and the new license has been issued by the FCC. The reimbursement check will be mailed to the fee payer. Also, candidates younger than 18-years old would pay a reduced exam session fee of \$5 to the ARRL VEC VE team at the time of the exam. The \$5 fee is for all candidates under the age of 18 regardless of the exam level taken. Proof of under 18 status is required at the session. Visit the ARRL website for the program instructions and reimbursement form at www.arrl.org/youth-licensing-grant-program.

For those of you who have been waiting for the Club Grant program, there is good news: The ARRL is holding a webinar Wednesday May 4 at 8p.m. Eastern. You need to register in advance for this webinar .

Click: [Here](#)

After registering, you will receive a confirmation email containing information about joining the webinar.

The website has been created that will be used to convey info on the program at:

Click [Here](#)

A new mailbox here at ARRL has also been created for correspondence concerning the program:

Click [Here](#):



The official launch of the program is Wednesday May 4 and clubs can apply after that date. The latest word I know is there is \$500,000 available for the grants. So get your application in early before the money is gone!

The new arrl.org website is up and running and yes, there are still a few bugs. That's to be expected where is a complete overhaul of an IT system. One thing you do need to do is log in with a new password. Follow these steps to sign in and access ARRL features and services:

Go to arrl.org and click "Login". If you had an existing account and have not logged into the new system yet, you can do one of the following steps:

1. If you know your username, click "Reset Password".

Check your email. You will receive an email from "Personify Identity Provider" with a subject of "ARRL Reset Password Request".

Follow the instructions in the email.

If you do not receive an email to reset your password, click on "Forgot Username" and proceed from there.

OR

When you get to the Login Screen, Click on Register. Enter the main e-mail address we have on file and click "Next." * You will be prompted to create a username and new password. Your password must contain at least eight characters, a number, an uppercase letter, a lowercase letter, and a non-alphanumeric character.

*Note, if the email address is not on file, then you will need to fill out all the fields (first name, last name, address, etc).

OR

1. If you have logged into the new system, please enter your username and password.

OR

1. If you never had an ARRL account, click "Register" and follow the prompts. This will log you in to arrl.org, which now allows you to renew, donate, and shop all in one transaction.

It's great to see our hamfest season is in full swing. I'm listing below the current hamfests on the schedule.

It has been sometime since the ARRL Illinois Section has held the Illinois Section Convention. I'm happy to report it will be held in Peoria in connection with the PAARC Superfest. Please plan to attend.

The Central Division Convention is back at HRO Milwaukee on September 23-24, 2022. I am looking forward to both the Illinois Section and Central Division Conventions and saving my pennies to buy lots of goodies.

2022 Field Day is June 25-26



Field Day is ham radio's open house. Every June, more than 40,000 hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Field Day has been an annual event since 1933, and remains the most popular event in ham radio.

If your interested in and/or able to help at Field Day in general contact [Dan](#) WA9YKK

2022 FRRL Field Day Info

FD Chair - Dan WA9YKK
FieldDay[at]frrl.org

All times Local (CDT)

Setup:

Fri. June 24 4:00 PM

Operation:

June 25 1:00 PM thru June 26 1:00 PM

Breakdown:

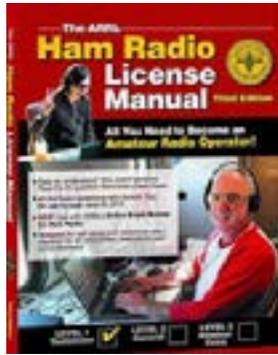
June 26 4:00 PM

Location:

LeRoy Oakes Forest Preserve
St. Charles, IL



Technician/General Classes:

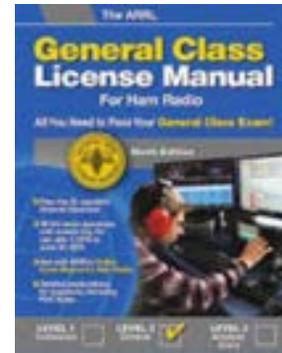


Technician Class

Wednesday Evenings
6:30 P.M. to 9:30 P.M.

Start: April 13, 2022
End: June 16, 2022

Location: Zoom Meeting
[Link to be distributed prior]



General Classes:

Thursday Evenings
6:30 P.M. to 9:30 P.M.

Postponed until fall 2022

Location: Zoom Meeting
[Link to be distributed prior]

The Fox River Radio League (FRRL) presents regular training classes focused toward new Amateurs interested in gaining their Technician class license or upgrading to the General and Extra class licenses.

These are free courses where you will learn everything you need to receive or upgrade to the appropriate FCC radio license.

The textbook for the class will be the official ARRL License Manual. Books are available for purchase via the club at a discounted rate by emailing [education \[at\] frrl.org](mailto:education[at]frrl.org).

Classes are instructor-led, and you can expect engaging conversations to ensue around the topics of discussion.

In addition to our regularly scheduled bi-monthly testing we will be scheduling a dedicated VE session after discussing best availability with the class participants. For more information on VE sessions, please see [VE Test Sessions](#).

We are in need of

Instructors

If you are willing to teach a section or two contact education@frrl.org

Please Note that classes are 9 weeks long..
You can contact Dennis Barfus at:

W9HI@arrl.net

if you have any questions



All Operators Net



“EVERY” Sunday for “EVERY” Operator

New or experienced...ALL are Welcome

1900 hrs (7pm) local time

147.21 103.5PL +600

On the FOX VHF Repeater



Feel free to share your thoughts, experiences, recipes and hobbies etc.

“It does not have to be about radio to talk on the radio!”

For more info about the NET contact:

Mike K9FE 630-327-5164 K9FE@yahoo.com

Calling all newly licensed hams.

Remember the old Radio Shack slogan “You’ve got questions, We’ve got answers”?

Well, I know new hams have a lot of questions and those of us that have been hams for a while have the answers.

I will be adding a new segment to our Tuesday Night Net called “ask Elmer” If you have a question about ham radio, ask it on the air and someone will give you the answer over the air.

Now, for this to work properly we need lots of questions and lots of people who know the answers.

Don’t be afraid to ask a simple or “stupid” question, we all had them when we started. Would you like to be an “Elmer” without getting out of your chair? Well, this is the opportunity you have been waiting for.

I want to invite all the club members to check-in to the net and either ask a question or provide an answer.

You never know what you might learn or what fun you will have if you don’t join the net. For those who may need a reminder, The net meets on our club 2-meter repeater (147.21 MHz, 103.5 Hz PL tone) Every Tuesday at 7:30PM except on our meeting nights.

Hope to hear you on the net soon.

73, Curt W9YNP



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The Radio Amateur's Code

The Radio Amateur is...

CONSIDERATE... He never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL... He offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his country through which Amateur Radio in his country is represented nationally and internationally.

PROGRESSIVE... He keeps his station up to date. It is well build and efficient. His operating practice is above reproach.

FRIENDLY... He operates slowly and patiently when requested; offers friendly advice and counsel to the beginner; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

BALANCED... Radio is a hobby, never interfering with duties owed to family, job, school or community.

PATRIOTIC... His station and skills are always ready for service to country and community

...adapted from the original Amateur's Code, Written by Paul M Segal, W9EEA, in 1928

© John Devoldere 0N4UN and Mark Demeuleneere 0N4WW

Taken from: [Ethics and Operating Procedures for the Radio Amateur.](#)

BRING BACK "RADIO IN THE PARK"

Harry Jones K9DXA started "Radio in the Park" years ago. His idea was take your radio out to a local park and set it up and operate. Since we can't have any thing big, just take your rig, wear your mask, set up an antenna, radio and have fun.



The idea of this is bring ham radio to the public. Make a small sign with your name, call sign, and please add FRRL also. Would like some photo of your operation. May get someone to take a picture of you operating. Will try to get your picture into the news letter. Please send a short report to me at my FRRL address. Director3@frrl.org

Dave K9wdb



VE Testing

The FRRL, in conjunction with the ARRL VEC, sponsors regular amateur examinations the third Thursday of every March, April, May and June. Ad-hoc sessions are planned during major events and will be added to the schedule here as well.

Upcoming Testing Schedule:

July 14th, 2022

Testing Location:
Geneva Lutheran Church
301 S 3rd St,
Geneva, IL 60134



No Walk-ins. All events subject to COVID-19 venue availability and restrictions.
Please pre-register by [emailing](#) or calling Dan Harmon 630-272-1768

Please also be sure to bring:

- Photo identification
- Your FCC generated FCC Registration Number (FRN).
- The fee of \$15.00. (The FRRL receives no portion of this fee.)

- If upgrading bring your original FCC HAM Radio License (or the documentation you received) and a photocopy of your license.

If you have questions about the testing program, please email the Chairman at: ve@frrl.org



Illinois Traffic Net



You can also participate in one (or all) of the Illinois Traffic Nets. Everyone is welcome with or without traffic. The nets are the North Central Phone Net, Daily (M-F) at 7 a.m. local time, on 3912 kHz LSB; the Illinois Phone Net, Monday – Friday at 4:45 p.m. local time, on 3857 kHz LSB and on Sunday at 8 a.m. on 3940 kHz; and the Illinois Sideband Net, Daily at 6 p.m. local time, on 3905 kHz LSB.



There are plenty of volunteer organizations that could use your radio skills.



Consider volunteering
you can make
the difference !!



American Red Cross



The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

ARES

Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES.

ARES Resources

- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [Emergency Communications Training](#)



Kane County ARES

Information

[Click Here](#)



Here are the hamfests as I know them now. Remember to check into the arrl.org page for the latest information.

April 30, 2022 - Sullivan Hamfest
Location: Sullivan, IL
Website: <https://www.qsl.net/mark/>

May 1, 2022 - The DeKalb Hamfest
Location: Sandwich, IL
Website: <http://karc-club.org>

June 5, 2022 - Starved Rock Radio Club Hamfest
Location: Mendota, IL
Website: <http://www.w9mks.org>

June 12, 2022 – Egyptianfest
Location: Granite City, IL
Website: hamfest@w9aiu.net

July 17, 2022 - Karsfest
Location: Peotone, IL
Website: <http://w9az.com/karsfest.html>

August 7, 2022 - Hamfesters Radio Club Hamfest
Location: Peotone, IL
Website: <http://ham-ham.org>

August 13, 2022 - West Central Illinois Hamfest
Location: Carlinville, IL
Website: <https://wcilhamfest.com/>

September 16 & 17, 2022 - 2022 W9DXCC Convention
Location: Naperville, IL
Website: <http://www.w9uvi.org>

September 17-18, 2022 - Midwest Superfest 2022, ARRL Illinois State Convention
Location: East Peoria, IL
Website: <http://www.w9uvi.org>

September 23-24, 2022 - HRO Superfest, ARRL Central Division Convention
Location: Milwaukee, WI

September 25, 2022 - Radio Expo Hamfest
Location: Belvidere, IL
Website: <http://chicagofmclub.org>

January 28, 2023 - Winterfest
Location: Collinsville, IL
Website: <http://winterfest.slsr.org>

73 until next time and good propagation.

ARRL Illinois Section
Section Manager: Thomas H Beebe, W9RY
w9ry@arrl.org





US Amateur Radio Bands

Operator license classes: **E** = Amateur Extra **A** = Advanced **G** = General **T** = Technician **N** = Novice
 CW operation is permitted throughout all amateur bands. Except as noted, all frequencies are in megahertz (MHz).

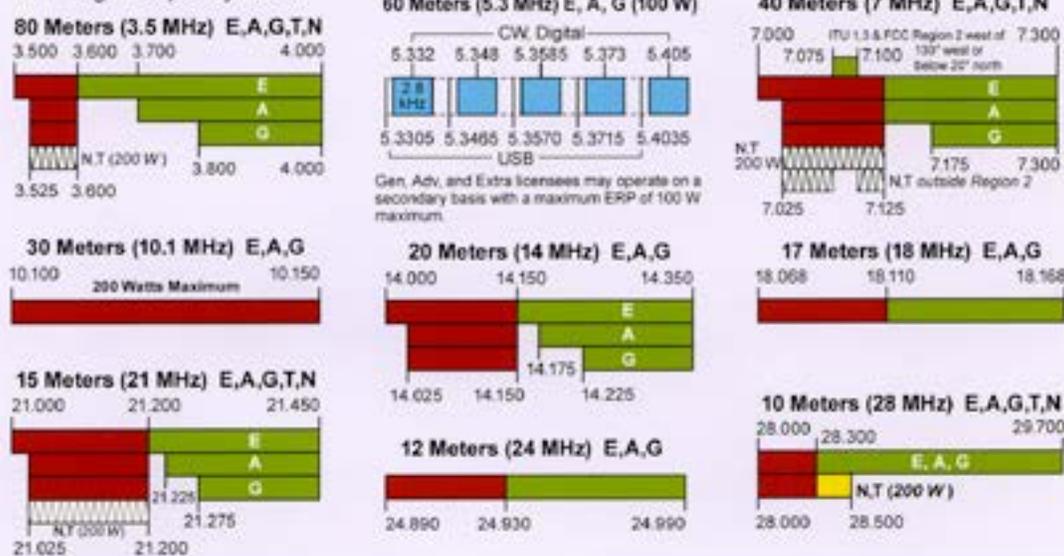
■ = RTTY, data, phone, image
 ■ = USB phone, RTTY, data and CW
 ■ = RTTY and data
 ■ = phone and image
■ = SSB phone
 [CW symbol] = CW only

LF – Low Frequency band



MF – Medium Frequency bands

HF – High Frequency bands



VHF – Very High Frequency bands



UHF – Ultra High Frequency bands



SHF&EHF – Super and Extremely High Frequency bands

All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	3300-3500 MHz	50.0-90.5 GHz	47.0-47.2 GHz	122.25-123.0 GHz	241-250 GHz
2390-2450 MHz	5650-5925 MHz	24.0-24.25 GHz	76.0-81.0 GHz	134-141 GHz	All above 275 GHz

See www.arrl.org/band-plan for detailed band plans.
 Copyright © ARRL 2020
 OTAbands rev. 1-22-20



FRRL Repeaters:

**W9CEQ -- 147.225 MHz - Auto C4FM/Fusion,
FM, and Wires-X
+600 KHz Offset
100.0 Hz access tone**



**W9CEQ -- 147.210 MHz
+600 KHz Offset
103.5 Hz access tone**

**W9CEQ -- 444.300 MHz - IRLP and Echolink
are currently unavailable
+5 MHz Offset
114.8 Hz access tone**

**W9CEQ_B -- 442.10625 MHz - D-Star
+5.0 MHz offset**

Other Local Repeaters:

**W9XA/R Batavia 1.25M
224.4 MHz, -1.6 MHz offset
114.8 Hz access tone
Owned by W9XA, available for club use**

**W9XA/R Batavia 70CM DMR
443.65625 MHz, +5 MHz offset
DMR ID 311760
Chicagoland-CC Bridge
Owned by W9XA, available for club use**

**WB9PHK/R 70CM DMR
443.64375 MHz, +5 MHz offset
Chicagoland-CC Bridge
Owned by W9XA, available for club use**

Other Local Repeaters:

**W9XA/R Batavia 23CM
1292.00 MHz, -20 MHz offset
114.8 Hz access tone
Owned by W9XA, available for club use**

**KC9OEM 2M -- (Primary Kane County
SKYWARN / ARES Freq)
145.470 MHz, -600 KHz Offset
103.5 Hz access tone
Owned by Kane County OEM**

**KC9OEM 70CM
444.525 MHz, +5 MHz Offset - Auto C4FM/
Fusion and FM and WIRES-X
114.8 Hz access tone
Owned by Kane County OEM**

Kane County Public Service Repeaters

**W9DWP -- 145.270 MHz, -600 KHz,
107.2 access tone**

**W9DWP -- 443.025 MHz, +5 MHz,
114.8 access tone**

Both W9DWP repeaters are dual mode APCO-25 NAC-293

**W9ZGP -- NIARC
147.060 MHz, +600 KHz,
103.5 access tone**

***Also see the bottom row of the FRRL
calendar to see additional repeaters and their
net times.***

Bolingbrook Amateur  Radio Society

**VHF - 2 meter: Frequency: 147.330 Offset: +
600 KHz PL: 107.2**

**UHF - 70 cm: Freq: 443.525 Offset: + 5.0 MHz
PL: 114.8 & NAC293**

**VHF - 220: Frequency: 224.540 Offset: - 1
MHz PL: 110.9**

**UHF - DMR: Freq: 443.700 Offset: + 5 MHz
Color Code: 1, TS1 & TS2**

