



ARCOVER

JANUARY 2023



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

1924  2023

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 Training
Robert Littler W9DSR

Director 3: Activities
Dave Bulkley K9DWB

Director 4: Technical
Adrian Dinwiddle KB9QQJ

Past President:
Gordon Dailey KW0E

Programs:
Gordon Dailey KW0E

Education / VE:
Dennis Barfuss W9HI

License Trustee (W9CEQ):
Kermit Carlson, W9XA

License Trustee (W9NE):
Denny Barfuss W9HI

Newsletter Editor / PR:
Jerry Chapman N9JLC

Webmaster:
Mark Van Daele K9MEV

Membership Database:
Chris Kennell, KC9BKS

Net Coordinator:
Curt Sauer, W9YNP

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.

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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>





From
the desk
 of....

The Esteemed

Terry Todd

Greetings everyone,
 Merry Christmas and Happy New Year.

I hope to see as many of you as possible at the FRRL banquet in Jan. 10th. Sign up now to make your reservation.

We will be setting up a new 220 repeater next year. Donations to the repeater fund will be helpful in that regard.

Best wishes to everyone this holiday season.

May 2023 be a happy and healthy new year for you and yours.

Terry - W9AUV

New Members



Call Sign	Name	License Type
	Thatcher Zielinski	
	Sawyer Zielinski	
	Gabriel Zielinski	
	Benjamin Zielinski	
	Dan Zielinski	
KD9WDW	Daniel Nichols	Technician
AA9DK	Daniel Kyburz	Amateur Extra





ARCOVER

FOX RIVER RADIO LEAGUE MEMBERSHIP MEETING MINUTES

DECEMBER 13, 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: December 13, 2022

The December 13, 2022 meeting of the Fox River Radio League was conducted at Bethany Lutheran Church in Batavia, IL. There were 44 ___ members in attendance and 6 members attended via Zoom.

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

Officers and directors present:

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 Buckley K9WDB
Director 4, Technical Adrian Dinwiddle KB9QQL (Zoom)

Minutes: Acceptance of the November 8, 2022 membership meeting minutes as printed in the ARCOVER were approved by the membership. Motion: Rob Vest KN9J, 2nd: Dave Buckley K9WDB Motion passed



December 13, 2022 Meeting Minutes Continued:

Reports:

Treasurer: Dan Harmon WA9YKK: Report provided and approved.

Director 1: RPTR'S: Ruben Noceda K9ARN and Kermit Carlson W9XA
Repeaters are working well and call sign on 223.86
repeater will soon change from W9LSL to W9CEQ.

VE Update: Denny Barfus W9HI: Technician class starts January 11, 2023
General class starts January 12, 2023.

Old Business: Denny Barfus W9HI reported that we placed 7th in the state
in the Illinois QSO party and 2nd nationwide in the 7A
category at Field Day 2022.

New Business: Club banquet planed for January 10, 2023 at the regular
club meeting.

Announcements from the floor: Mike Urso K9FE expressed thanks for
donations of food and money to be
delivered to food banks.

Adjournment: Motion to adjourn: Kermit Carlson W9XA, 2nd Doug Reneker W9RD.
Meeting adjourned at 20:05 CST.

Respectfully submitted

Art Shuter
FRRL Secretary



At our December Meeting we accepted donations for a local Food Pantry. We
donated food, paper goods and money. We raised \$225.00. Good job ladies
and gentlemen !!



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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 	2 CW NET 28.150 2000 SSB NET 28.720 2030	3 1900 FRRL BOD Meeting 1930 FRRL 2m Net	4	5	6	7
8 INFORMAL ALL OPR NET 1900	9 CW NET 28.150 2000 SSB NET 28.720 2030	10 1930 FRRL Membership Meeting No Net	11 Learn Your Name in Morse Code Day	12	13 	14
15 INFORMAL ALL OPR NET 1900	16 CW NET 28.150 2000 SSB NET 28.720 2030	17 1930 FRRL 2m Net	18	19	20 	21
22 INFORMAL ALL OPR NET 1900	23 CW NET 28.150 2000 SSB NET 28.720 2030	24 1930 FRRL 2m Net	25	26	27	28
29 INFORMAL ALL OPR NET 1900	30 CW NET 28.150 2000 SSB NET 28.720 2030	31 1930 FRRL 2m Net				
				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	CW Net 28.150, Monday 8PM SSB Net 28.720, Monday 8:30PM	

Fox River Radio League

News & Information

Local - National - International



ARC OVER

Your Election Results Headquarters

2023 FRRL OFFICER and DIRECTOR ELECTION RESULTS



President Terry W9AUV, VP Eve W9EVE, Treasurer Dan WA9YKK, Secretary Art NN9I, Director Jim W9JB, Director John KC9OJV, Director Paul KC9SEB (Not pictured)





ARC OVER



*You're
Invited*

Banquet

FRRL

Buffet Menu

Lemon Chicken breasts, lightly floured & served in a White Wine Herb Lemon Sauce

Boneless seasoned pork tenderloin pan seared then oven roasted topped with homemade gravy.

Oven Roasted Potatoes Chef's Special Herb Rub makes these potatoes a hit. Baked and generously sprinkled with freshly grated Parmesan cheese.

Corn Niblets tossed in butter.

House Salad A fresh mix of iceberg & romaine lettuce, mixed with red cabbage & carrots. Topped with olives, red onions, cucumbers & tomatoes with italian and ranch dressing on the side. Rolls/ Butter Petite Dinner Rolls

Soda, Gourmet Coffee Regular and Decaf.

Ice Cream Sundae Bar. Vanilla and Chocolate Ice Cream. Hot Fudge, Carmel, Nuts, Crushed cookies, Sprinkles, Cherries, Toffee Bits, M&M, Whip Cream

SUGAR FREE Vanilla pudding topped with SUGAR FREE cool whip.

FOX RIVER RADIO LEAGUE ANNUAL BANQUET

When: January 10, 2023

Time: 6:30 pm

Where:

**Bethany Lutheran Church
8 South Lincoln St
Batavia IL**

**Cost: \$35.00 per person adult
\$15.00 per child 12 and under**

Members - Spouses - Family Invited

**Payment
Can be made at**

WWW.FRRL.ORG

By January 5, 2023

Or if paying by check please send to:

**FRRL
P.O. Box 673
Batavia, IL 60510**



Amateur Radio Featured on Montana Public Television

On Thursday, November 24, 2022, Thanksgiving evening, MontanaPBS aired a documentary about amateur radio that was appropriately titled, HAM. The 25-minute program was produced by students, in cooperation with the Greater Montana Foundation, as well as the School of Journalism and the School of Visual & Media Arts at the University of Montana (UM) in Missoula.



<https://www.montanapbs.org/programs/ham/>

2022 - Illinois QSO



We placed 7th in the state for the amount of contacts

FIELD DAY 2022

We placed #2 in the NATION in mode 7a



PRESIDENT TODD SAYS PLEASE



AT
WWW.FRRL.ORG

Or Mail to:
FRRL
P.O. Box 673
Batavia, IL 60510



YOU CAN ALSO PAY
DUES IN PERSON AT
THE CLUB MEETING.

(PREFERRED METHOD
IS TO PAY ON LINE)



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Technician/General Classes:

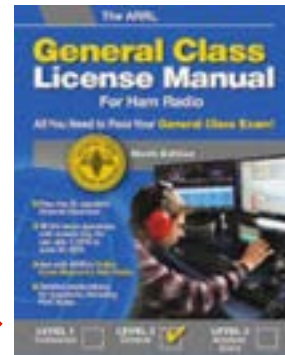


Technician Class

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

Start: January 11, 2023
End March 8, 2023

Location: Zoom Meeting
[Link to be distributed prior]



General Classes:

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

Start January 12, 2023
End: March 9, 2023

Location: Zoom Meeting
[Link to be distributed prior]

Date Change

All, First of all If you have signed up for the Technician or General Classes You are enrolled. Due to multiple factors we have decided to move the classes to January. We apologize for the inconvenience, but this will give us the time to help new students acquire the correct License manuals for the course. The New starting dates are January 11th for the Technician class and January 12th for the General classes. The zoom links for the class will be sent out before the class start date. The manuals for the class are shown on the FRRL web page (frrl.org) under education. As of today 12/13 the dates for the classes are incorrect on the web page. We will get those corrected immediately. We will update the syllabus as we insert Instructors.

For assistance with manuals please email education@frrl.org

We apologize for any confusion by changing the dates. Our goal is to enhance the learning of our students.

73, Your Education/Training team



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:

January 12, 2023
March 9, 2023

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

New General Question Pool Released for Ham Radio Licensing Effective July 1, 2023

The National Conference of Volunteer Examiner Coordinators' (NCVEC) Question Pool Committee (QPC) has released the 2023 - 2027 General Class FCC Element 3 Syllabus and Question Pool to the public. The new General Question Pool is effective July 1, 2023, through June 30, 2027. [Click Here for list of questions](#)

The new pool incorporates some significant changes compared to the 2019 - 2023 version. Its 432 questions were modified slightly to improve wording and to replace distractors; 51 new questions were generated, and 73 questions were eliminated. This resulted in a reduction of 22 questions, bringing the total number of questions in the pool down from 454. The level of difficulty of questions is more balanced, and the techniques and practices addressed have been updated.





January 7 | Ham Radio University, hosting the ARRL New York City-Long Island Section Convention, an Online Event. [Click here for more information](#)



January 20 - 21 | Southwest Florida Regional Hamfest, hosting the ARRL Southern Florida Section Convention, Fort Myers, Florida. [Click here for more information](#)



January 27 - 28 | Capital City Hamfest 2023, hosting the ARRL Mississippi State Convention, Jackson, Mississippi. [Click here for more information](#)



January 28 | Winterfest, hosting the ARRL Midwest Division Convention, Collinsville, Illinois [Click here for more information](#)



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



Learn Your Name in Morse Code Day

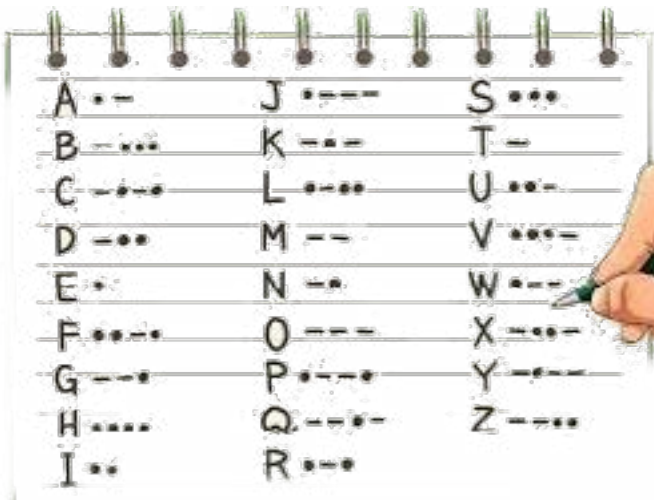
1/11/23



Learn Your Name in Morse Code Day was created to stir up interest in morse code. As a communication tool, morse code is being replaced by modern technology. This special day was created to encourage people to learn and use morse code, and to keep it from disappearing altogether. Hopefully, this day will peak your interest in morse code and you can start to learn more about it, by learning to communicate your name in morse code.



<https://www.ten-ten.org/>



Morse Code Numbers

0	-----	5
1	.-----	6	-.....
2	..---	7	--....
3	...--	8	---...
4-	9	----.

Morse Code Character Sounds

Presented here is each letter and character with their respective Morse sound in MP3 format. Each one is sent at a 10 WPM character speed.

<http://www.arrl.org/code-characters>

W1AW Code Practice Audio Files

Archive mp3 files of W1AW code practice runs at speeds 5wpm-40wpm.

<http://www.arrl.org/code-practice-files>

W1AW Code Practice Schedule

Times, frequencies, and speeds.

<http://www.arrl.org/w1aw-operating-schedule>

CWops CW Academy

The CWops club offers group code lessons online and tutors on-air. There is no cost or obligation to participate in CWops CW Academy Classes and membership is not required. Enrollment is open to anyone with the desire to learn or improve their proficiency in Morse Code.

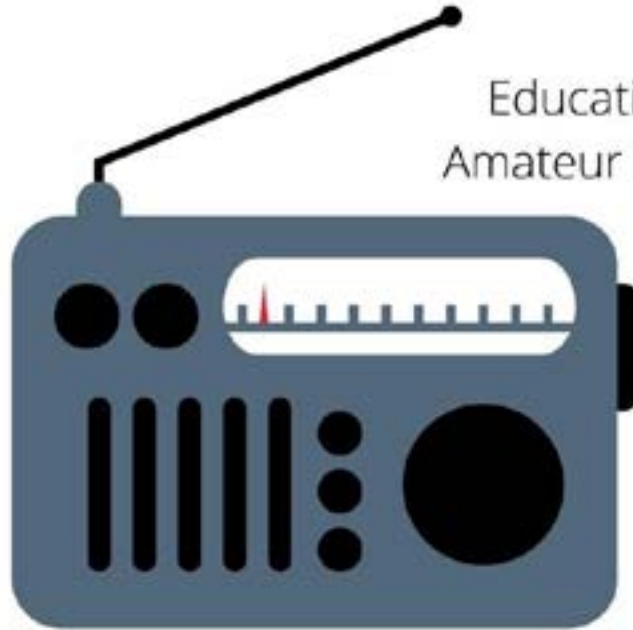
<https://cwops.org/cw-academy/>



Wheaton Community Radio Amateurs
56th Annual
Mid-Winter Hamfest
(Computer, Radio, and Electronic Hobby Expo)



Door Prizes
Educational Forums
Amateur Radio Exams



w9ccu.org



January 15th, 2023

8 am - 1 pm

Kane Country Fairgrounds

Tickets: \$10 At the door (\$8 in advanced online)

Children under 12: Free

All scouts under 18 and in official uniform: Free

Come join us for our 56th Annual Mid Winter Hamfest.

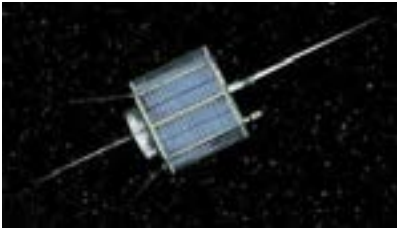
Doors open @ 8am

VE tests run from 8-12.

We hope to see you there, and as always, bring a friend!!



A New Ham Satellite Is Alive



A new ham satellite is alive. This one is interesting because, in addition to a V/U mode linear transponder and V/U mode FM transponder, it has an H/U mode linear transponder and three visible light band space cameras (the cameras are not open to hams yet).

Here's a user's manual for the bird:

<https://www.amsat.org/wordpress/wp-content/uploads/2022/12/CAS-5A-Amateur-Radio-Satellite-Users-Manual-V1.0.pdf>

Worth a look if you are interested in ham satellites
73, Kermit W9XA

(As given to Kermit by Dave N9KT)

T3B05

HOW DOES THE WAVELENGTH OF A RADIO WAVE RELATE TO ITS FREQUENCY?

- A. THE WAVELENGTH GETS LONGER AS THE FREQUENCY INCREASES
- B. THE WAVELENGTH GETS SHORTER AS THE FREQUENCY INCREASES
- C. THERE IS NO RELATIONSHIP BETWEEN WAVELENGTH AND FREQUENCY
- D. THE WAVELENGTH DEPENDS ON THE BANDWIDTH OF THE SIGNAL

T3B06

What is the formula for converting frequency to wavelength in meters?

- A. Wavelength in meters equals frequency in hertz multiplied by 300
- B. Wavelength in meters equals frequency in hertz divided by 300
- C. Wavelength in meters equals frequency in megahertz divided by 300
- D. Wavelength in meters equals 300 divided by frequency in megahertz

T3B07

What property of radio waves is often used to identify the different frequency bands?

- A. The approximate wavelength
- B. The magnetic intensity of waves
- C. The time it takes for waves to travel one mile
- D. The voltage standing wave ratio of waves



Answers on Page
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WXWarn 2.0

Is software that uses the National Weather Service (NWS) real-time weather data feed, is now available. The application constantly monitors NWS weather updates and displays user-selected alerts as they're issued. WXWarn 2.0 can be configured to display a simple heads-up, unfolding weather conditions at the county, statewide, or regional level, or severe weather alerts for the entire US. WXWarn 2.0 is useful for individual use, but also for volunteers supporting amateur radio emergency communications as part of the complement of resources they utilize. Developers and ARRL members Scott Davis, N3FJP; Kimberly Davis, KA3SEQ, and their son, Chris Davis, KB3KCN, report that the updated



ARRL Exceeds Giving Tuesday Goal

Through the generous contributions of donors, ARRL exceeded our #GivingTuesday goal, raising over \$25,000. This support will extend ARRL's reach to grow and encourage our community of young radio amateurs. Giving Tuesday was November 29, 2022, and is a growing annual movement encouraging individuals and organizations, like ARRL, to come together to unleash the power of radical generosity. Many ARRL programs and services are not covered by membership fees alone. Contributions have a tremendous impact on ARRL's ability to promote and protect amateur radio and better serve its members. For more information about making a donation to ARRL,



To donate visit <https://www.arrl.org/donate>.

Passive IMD

Undesirable RF products caused by rectified or mixed RF signals produced by passive components. Sometimes, something as innocuous as different metals used for a plug and socket, or even dissimilar materials touching in the presence of strong RF fields, can cause it. P-IMD can be a big problem in situations where signals are transmitted and received simultaneously.



Non-contesting Frequencies

In a major contest, finding an open frequency to call CQ can be difficult. Besides listening to make sure a frequency isn't in use by another contester, make sure the frequency:

Is appropriate for your country's [band chart](#) for the mode

Is appropriate for your license class

Isn't a [DX beacon frequency](#)

Isn't discouraged or disallowed by the contest sponsor

Isn't already in use by another mode

Examples of inappropriate frequency usage:

Continental US stations [transmitting SSB below 7.125 MHz](#)

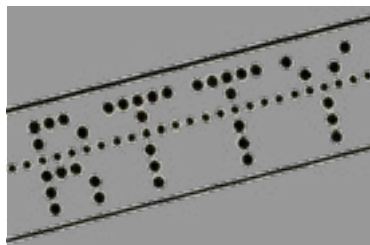
A General-class licensee transmitting CW below 14.025 MHz

Calling CQ on 14.099 MHz during a RTTY contest with a high-tone frequency of 1275 Hz

Using 7045 for CW contacts during the [Worked All Europe DX Contest](#)

Using 21.074 - 21.076 MHz for any mode other than FT8

No frequencies are owned by any person or group, however, that doesn't prevent some people from trying. You might think 14.230 MHz is a good frequency to use during a phone contest, and you might not hear anyone using it for minutes on end. But start to call CQ, and you'll likely find that someone thinks it must be kept clear for SSTV. Ditto for other frequencies higher in the 20-meter band, where various nets are held. A frequency fight doesn't produce contest points.



ARRL RTTY Roundup

Don't forget, starting with the January 2023 [ARRL RTTY Roundup](#), only contacts made using RTTY are allowed. If you're looking for an FT-mode contest, consider the ARRL International [Digital Contest](#) in June 2023.



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



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](#)

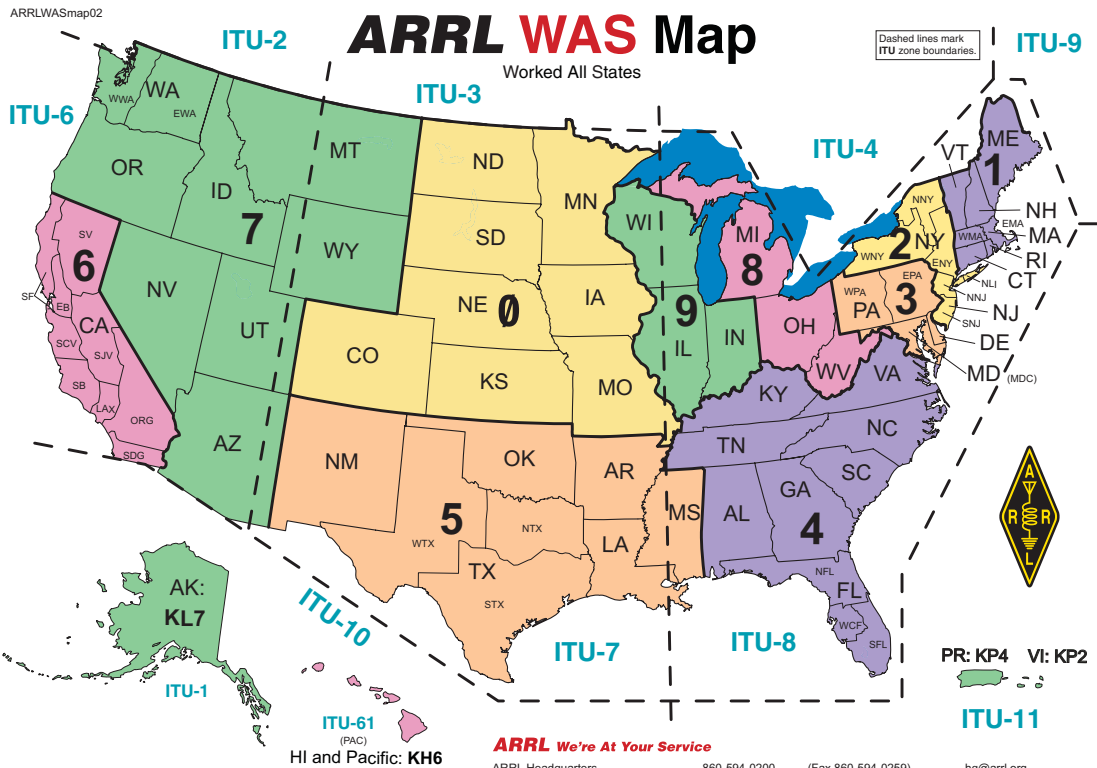
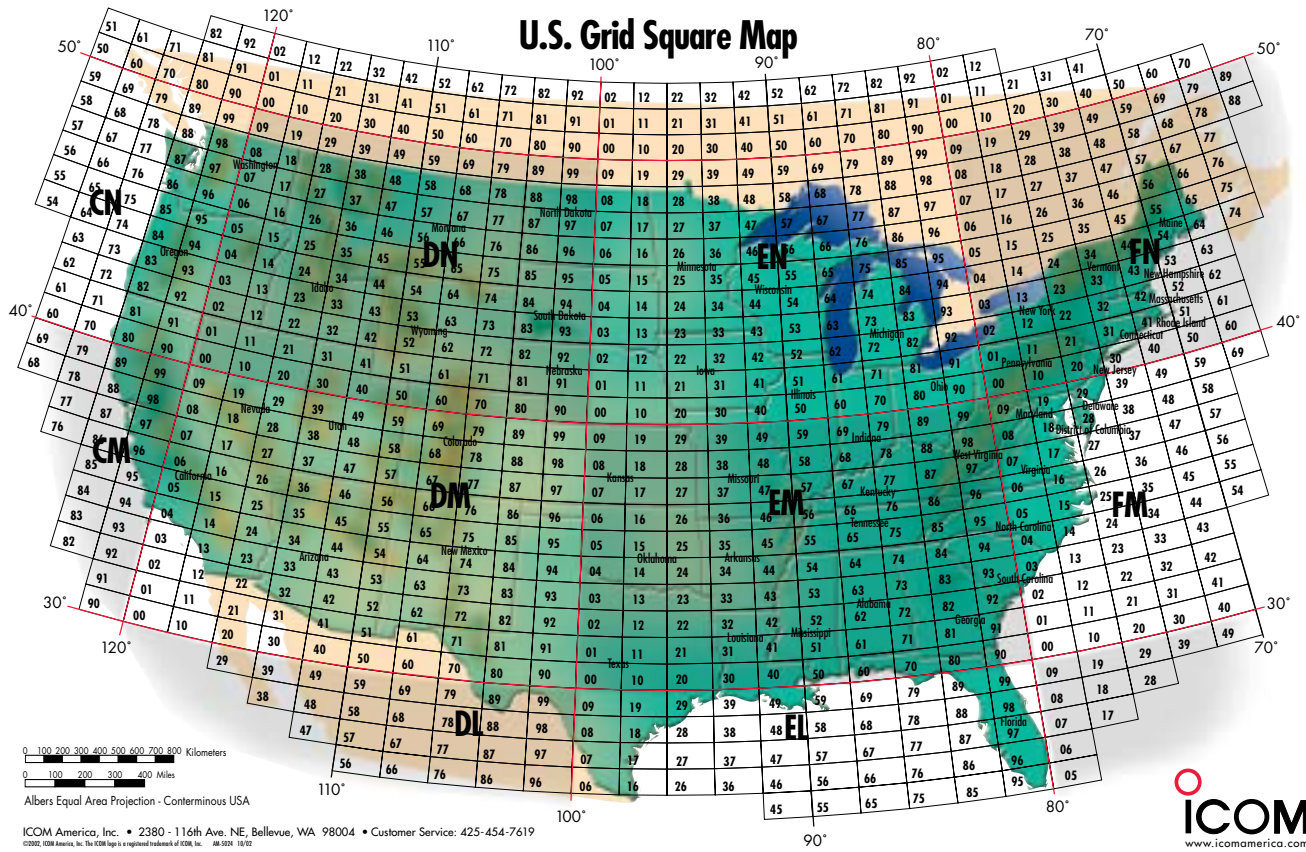


Kane County ARES

Information

[Click Here](#)





ARRL The national association for
AMATEUR RADIO

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ARRL We're At Your Service

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 Getting Started in Amateur Radio
 Exams
 ARRL on the World Wide Web

860-594-0200 (Fax 860-594-0259)
 Toll-Free 1-888-277-5289 (860-594-0355)
 Toll-Free 1-888-277-5289 (860-594-0338)
 Toll-Free 1-800-326-3942 (860-594-0355)
 860-594-0300
 www.arrl.org/

hq@arrl.org
 orders@arrl.org
 membership@arrl.org
 newham@arrl.org
 vec@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).

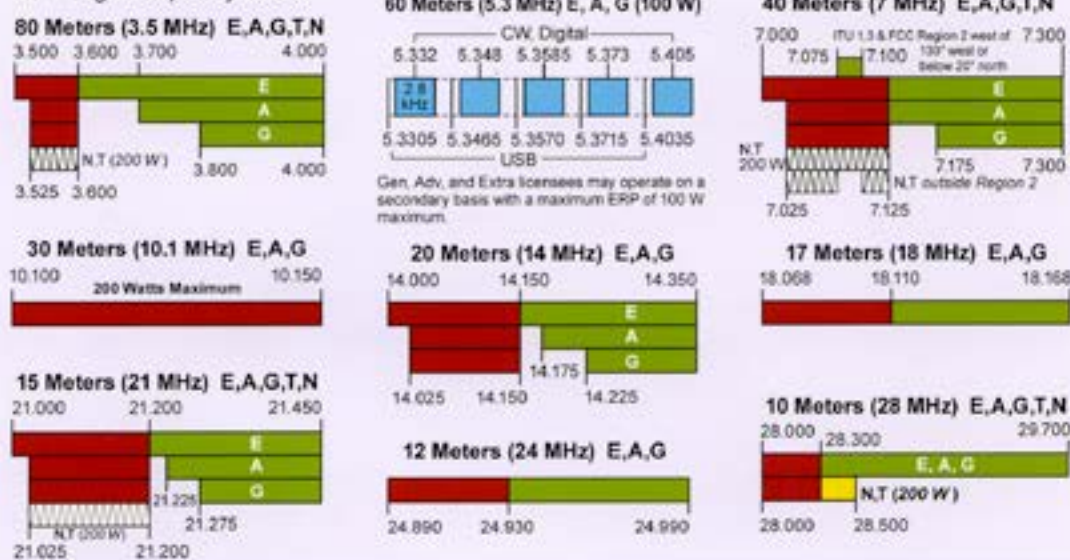
■ = RTTY, data, phone, image
 ■ = USB phone, RTTY, data and CW
 ■ = RTTY and data
 ■ = phone and image
■ = SSB phone
 [CW symbol] = CW only

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 50.0-50.5 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

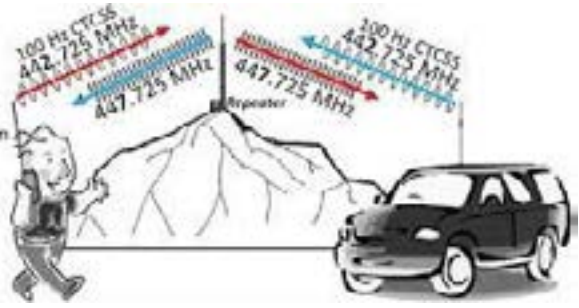
See www.rrrl.org/band-plan/ for detailed band plans.
 Copyright © ARRL 2020
 OTAbands rev. 1-22-20



FRRL

70 cm Band
5 MHz Negative
Offset Example

447.725 MHz: Your Listen
(Repeater Transmit)
442.725 MHz: Your Talk
(Repeater Receive)



**AND OTHER
LOCAL REPEATERS**

FRRL Repeaters- W9CEQ

147.225 MHz - Plano
Mode: **Auto C4FM / Fusion, FM, Wires X**
+600 KHz Offset, 100.0 Access Tone

147.21 MHz - Elburn
Mode: FM (Echolink Available)W
+600 KHz Offset, 103.5 Access Tone

444.300 MHz - Elburn
Mode: FM
+5 MHz Offset, 114.8 Access Tone

442.10625 MHz (B) - Elburn
Mode: D-Star
+5 MHz Offset

**Other Area Repeaters
W9XA**

53.910 - Batavia
-1.0 MHz offset PL 114.8 Hz

224.4 MHz - Batavia
-1.6 MHz offset PL 103.5 Hz

443.64375 MHz - Elburn
+5 MHz offset DMR 311759

443.65625 MHz - Plano
+5 MHz offset DMR 311760

1292.00 MHz - Batavia
-20 KHz 114.8 Access Tone

927.625 - Batavia
+25 MHz offset PL 114.8 Hz

W9DWP

145.270 MHz - Elburn
-600 KHz offset PL 107.2
ARES APCO P25 NAC 293



NIARC W9ZGP

147.06 MHz - Batavia
Mode FM +600 kHz offset PL 103.5.

Auto C4FM / Fusion, FM, Wires X Repeaters

K9IIK/R

442.275 MHz - Schaumburg
Mode: **Auto C4FM / Fusion, FM, Wires X**
+5 MHz, 114.8 Access Tone

W9CHI

444.600 MHz - Channahon
Mode: **Auto C4FM / Fusion, FM, Wires X 30024**
+5 MHz, 136.5 Access Tone

KD9FA

443.600 MHz - Oswego
Mode: **Auto C4FM / Fusion, FM, Wires X**
+5 MHz, 107.2 Access Tone

KC9OEM

Primary Kane County SKYWARN / ARES

145.470 MHz -St Charles
Mode: FM
-600 Offset, 103.5 KHz Access Tone



444.525 MHz -St Charles
Mode: **Auto C4FM / Fusion, FM, Wires X**
+5 MHz Offset, Access WWTone114.8



13B05 B
13B06 D
13B07 A