



PATOKA VALLEY

MATEUR RADIO CLUB



The PVARC meeting will
begin at 6:30 PM



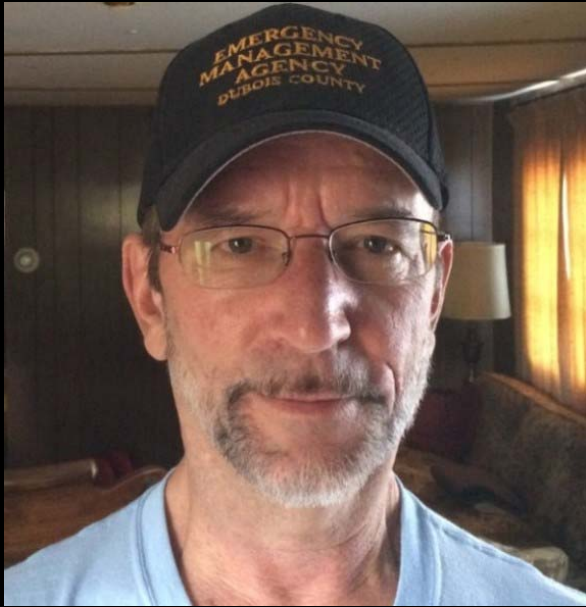
PATOKA VALLEY

MATEUR RADIO CLUB



Meet WB9LIB & Take a
Virtual Tour of his Station &
Supportive Activities

Gary Fritz's Biography



Started out listening to long-distance AM stations & international short wave broadcasts

- Interest in radio began early in life
- Age 7 got an “all transistor” AM radio
- Age 10 built an AM radio
- Age 12 received a Sears Wayfarer Multiband portable short wave radio

Gary Fritz's Biography



- Dabbled in CB radio during my teen years
- Was amazed at how a 5 watt signal could travel across the Country via "skip"
- Licensed as KBR3358

During these formative years I used the handle "Captain Kirk" on CB (was a Star Trek fan)!

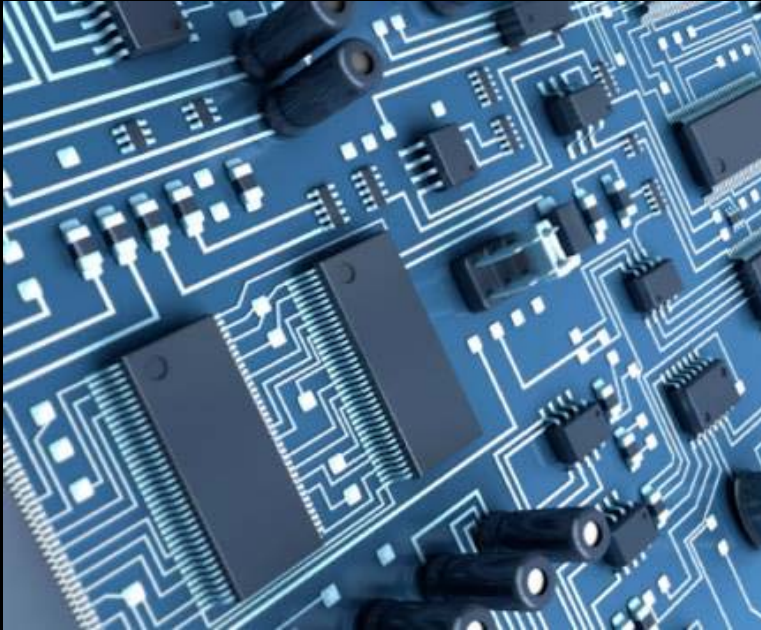
Gary Fritz's Biography



- Acquired novice class license in 1973
- Upgraded to general class in 1974
- Upgraded to extra class in 2022

Currently resides at 1720 Vienna Drive in Ferdinand where my amateur radio station is located

Gary Fritz's Career



- Graduated United Electronics Institute of Technology 1974
- Worked for Kimball Electronics from 1974 to 2006 (*32 years*)
- Designed 15 custom large-scale integrated circuits (IC'S) for Kimball organ products
- Assisted in design of initial ABS introduced into GM vehicles

Gary Fritz's Career



- Volunteer since 1995
- Began working full time in 2007
- Certified Professional Emergency Manager
- Retired as Deputy Director in 2020

Involved in grant writing, training, communications, emergency planning, exercising, & ensuring Dubois County is prepared to deal with emergencies and disasters

Meteorology Background



**Meteorology
Training**

- **Over 20 years of experience weather spotting**
- **Extensive NWS severe weather meteorology training**
- **Conduct annual Skywarn Spotter Training for Dubois County EMA & PVARC**

Every January & February take about 25 meteorology & weather spotter courses to prepare for severe weather season

CURRENT ACTIVITIES

Currently on Dubois County EMA staff as Operations Officer



- ICS, Damage Assessment, RACES, Auxcomm Support
- Oversee monthly EMA staff training
- Maintain 147.195 MHz RACES repeater & EOC radios

Approximately 20 hours per month
spent developing staff training

Dubois County R.A.C.E.S

Radio Amateur Civil Emergency Service

[HOME](#) | [WEATHER](#) | [EMERGENCY MANAGEMENT](#) | [COUNTY GOVERNMENT](#)



About RACES

Radio Amateur Civil Emergency Service (RACES) is an organization of amateur radio operators who volunteer for Emergency Management for the purpose of providing auxiliary emergency radio communications support to federal, state and local governments in time of emergency, and to supplement, augment or replace radio communications wherever needed.



RACES Membership

If you are interested in becoming a RACES member contact the Dubois County Emergency Management Agency at 812-482-2202 or via email: [▶ Dubois County EMA](#)



FEMA IS-100 & IS-700

All EMA volunteer staff must complete Introduction to Incident Command and Introduction to National Incident Management Training: [▶ IS 100](#) [▶ IS 700](#)

Maintain the Dubois County RACES Web Page



Auxiliary Emergency Communications training is required for deployment

Weekly RACES net every Thursday at 8:30 PM Eastern on 147.195 MHz Jasper, IN repeater

UPCOMING EVENTS

- ▶ **Apr 5 - EMA Staff Meeting**
Includes a Tour of Weatherspotter.net
- ▶ **May 3 - EMA Staff Meeting**
Includes 147.195 MHz Repeater Planning

- Net Preamble Net Control Schedule
- Bulletins & Announcements
- ICS 213 (General Message)
- ICS 214 (Unit Log)
- Radio Program Template
- Go Kit Checklists (AUXCOM) (ARES)
- AUXFOG (Mobile App)
- Skywarn Net Guidelines
- Net Control Center
- RACES Plan
- ICS 309 (Communications Log)
- ICS 205 (Communications Plan)
- Dubois County Frequencies
- AUXCOM Explained
- Indiana RACES
- NIMS Resource Center

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Oversee Dubois County Skywarn operations



SKYWARN

Extensive forecasting services provided on Severe weather days

- Provide hazardous weather outlooks to local government agencies
- Skywarn Net Control during severe weather events
- During tornado warnings activate County phone notification system

Provide weather surveillance for 25 local outdoor events every year (Strassenfest, 4H Fair, Heimatfest, Herbersfest, picnics, etc.)

.....online with Bob Bleemel, Ken Sicard, other event organizers as required.....

PVARC Ongoing Support



- **Oversee PVARC monthly presentation program**
- **Maintain PVARC Web Site**
- **Maintain PVARC club documentation**

Approximately 20 hours per month spent developing staff training

+

8 hours per month server maintenance, backups, documentation

Patoka Valley Amateur Radio Club

Mike Vogler, President (KA9GDW)

[Home Page](#) [Training](#) [Gallery](#) [About](#)



Dubois County Repeaters: 147.195 MHz (FM) 444.675 MHz (FM/C4FM)



Serving the amateur radio community in Dubois and surrounding Indiana Counties by fostering, educating, and developing amateur radio. By further developing our communications skills and capabilities we enhance our enjoyment and understanding of what amateur radio has to offer.

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- Presentations
- Minutes & Reports
- Roster
- Bulletin Board
- Contest Calendar
- Special Events
- Intro to Amateur Radio
- Weatherspotter.net
- *More*

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Social hour and a meal begins at 5:30 PM ET and the meeting starts at 6:30 PM ET. *Anyone interested in amateur radio is invited to attend.*

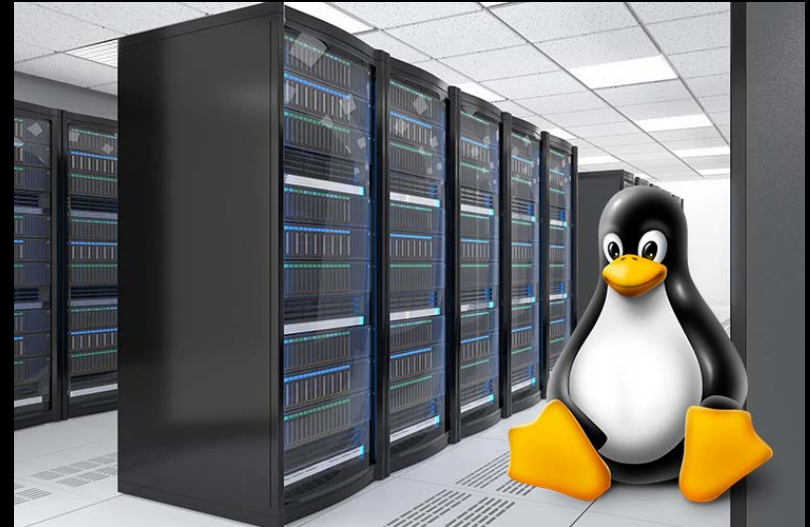
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 - Review Constitution
 - Virtual Tour of KA9GDW's Station
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 - Continue Constitution Review

In 2021 Designed & Developed & Maintain PVARC Web Site

Designed, Developed, & Maintains Weatherspotter.net

- Set of weather applications running on a dedicated Linux Server
- Server Fee: \$6,804.00
3 Years
- Software Developer &
Server Admin: Gary Fritz



Approximately **3 MONTHS** of every year is spent developing and maintaining software and performing routine server maintenance

Develop Software for the National Weather Service



- Works with NWS Software Development Branch & Central Operations
- Primarily diagnostics for new systems and services
- Includes radar and warning systems

Approximately 160 hours per year
spent developing & maintaining
software

Net Control Duties



Patoka
Valley
Amateur
Radio Club

W9ILS
Wide-Area
Digital Net

**Participates as Net Control
Operator for each of these nets**

216 Hour/Year

Patoka
Valley
Amateur
Radio Club

**160 Hours
per Year**

**160 Hours
per Year**

Involvement in these
programs keeps me
pretty busy!



**480 Hours
per Year**

**160 Hours
per Year**

Weatherspotter.net



1,176 Total Hours per Year

WB9LIB's Station



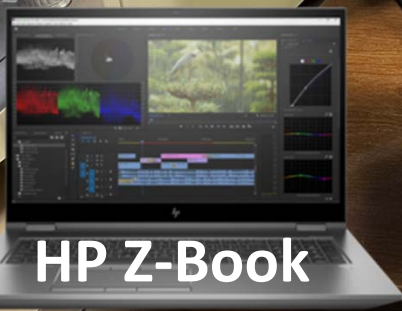
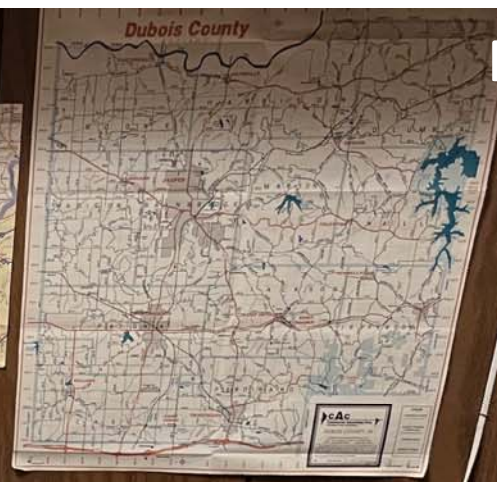
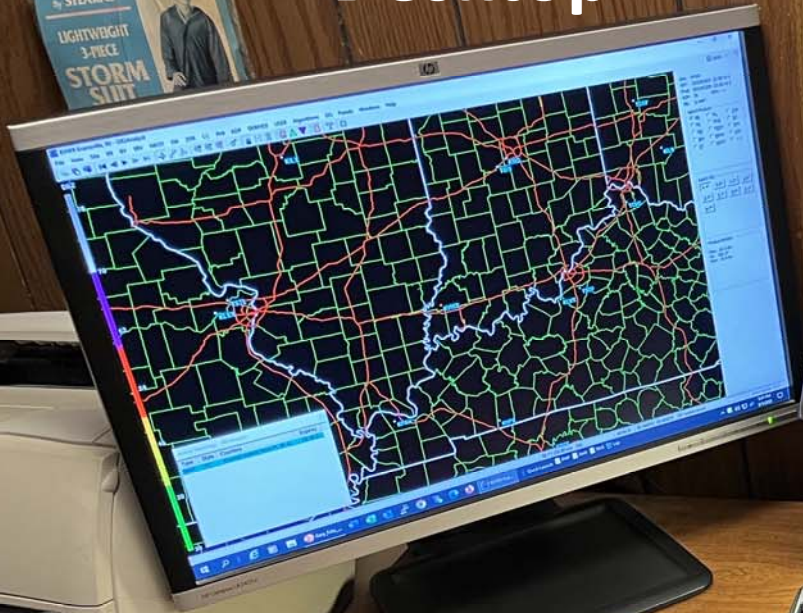
WB9LIB's Primary Operating Point

Primary Operating Point

- Yaesu FTM-300D 2M/440 FM/C4FM
- Yaesu FT-2900 2M
- Comet CMX-3 SWR/Power Meter
- Astron RS-20A & RS-50A Power Supplies
- Dell Latitude Laptop
- RF Concepts RFC 4-310 440 Power Amp
- Mirage B 5016 G 2M Power Amp
- Yaesu FT-DX10 HF/6M Transceiver
- Palstar AT 500 Tuner
- LaCross Atomic Clock
- Altec Lansing Speaker
- Deka DP31DT Marine Battery Backup

**HP Elite 8300
Desktop**

Phone



WB9LIB's Weather Center

HP Z-Book



KIG76



WWG83



UPS

**800 MHz
Public
Safety**



Weather Radios

Weather Center

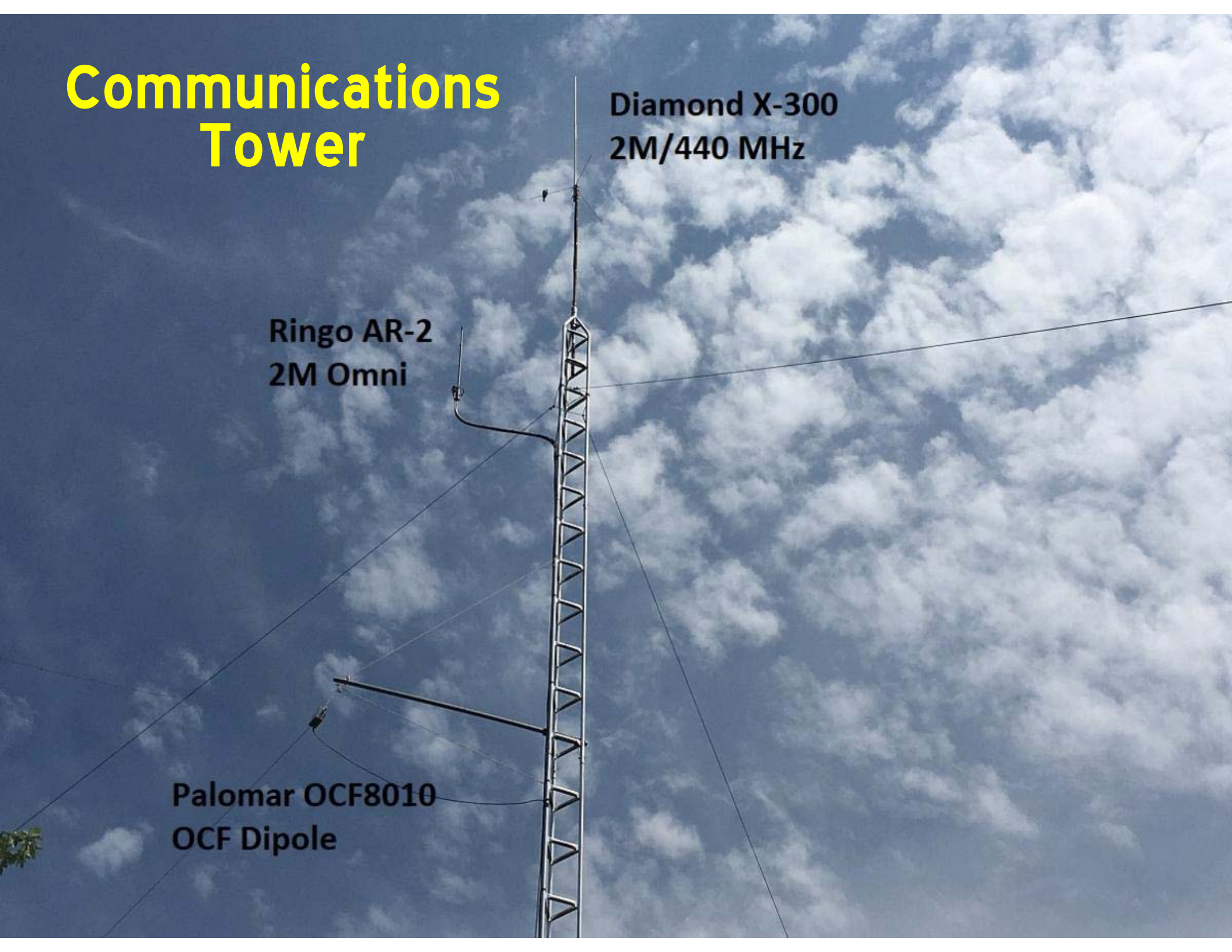
- Astron RS20 Power Supply
- Yaesu FTM-300 2M/440 FM/C4FM
- Altec Lansing Speaker
- Klipsch Speakers
- HP Compaq Elite 8300 Computer
- HP Z-Book Laptop Computer
- EF Johnson VP900 VHF/800 MHz P25
- Midland WR-120EZ Weather Radio
- Radio Shack 12-250 Weather Radio
- APC Smart UPS 1000 XL Backup Power

Communications Tower

Diamond X-300
2M/440 MHz

Ringo AR-2
2M Omni

Palomar OCF8010
OCF Dipole



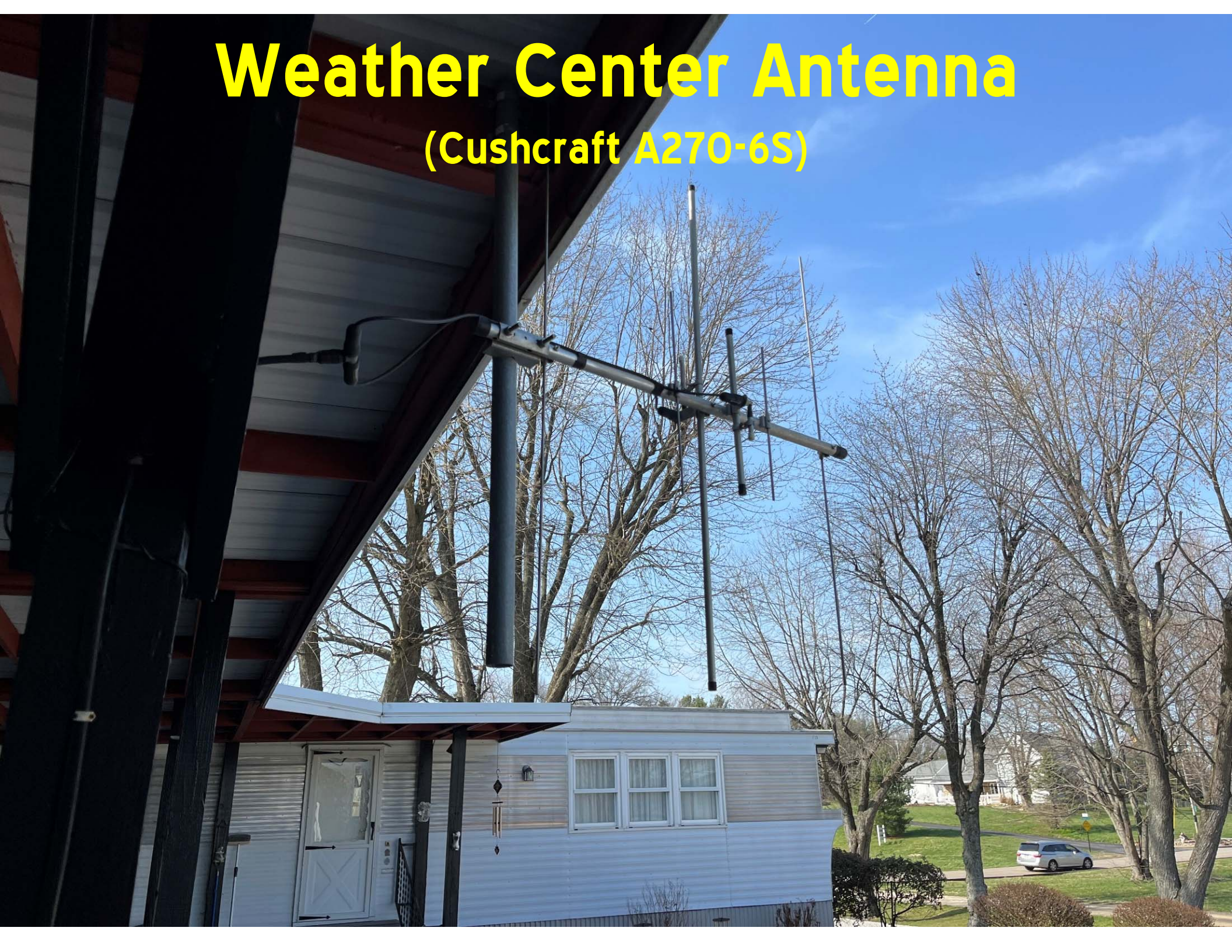


CHA-
250B

**Backup Antenna
(Telephone Pole)**

Weather Center Antenna

(Cushcraft A270-6S)



Amateur Radio Bands

US Amateur Radio Bands

US AMATEUR POWER LIMITS — FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

Amateurs wishing to operate on either 2,200 or 630 meters must first register with the Utilities Technology Council online at <https://utc.org/plc-database-amateur-notification-process/>. You need only register once for each band.

The national association for
ARRL AMATEUR RADIO®

KEY

Note:
 CW operation is permitted throughout all amateur bands.
 MCW is authorized above 50.1 MHz, except for 144.0-144.1 and 219-220 MHz.
 Test transmissions are authorized above 51 MHz, except for 219-220 MHz

- = RTTY and data
- = phone and image
- = CW *only*
- = SSB phone
- = USB phone, CW, RTTY, and data
- = Fixed digital message forwarding systems only

E = Amateur Extra
 A = Advanced
 G = General
 T = Technician
 N = Novice

See **ARRLWeb** at www.arrl.org for detailed band plans.

ARRL
We're At Your Service

ARRL Headquarters:
 860-594-0200 (Fax 860-594-0259)
 email: hq@arrl.org

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 Toll-Free 1-888-277-5269 (860-594-0355)
 email: orders@arrl.org

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www.arrl.org/membership
 Toll-Free 1-888-277-5269 (860-594-0338)
 email: membership@arrl.org

Getting Started in Amateur Radio:
 Toll-Free 1-800-326-3942 (860-594-0355)
 email: newham@arrl.org

Exams: 860-594-0300 email: vec@arrl.org

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2,200 Meters (135 kHz)

135.7 kHz — 1 W EIRP maximum — 137.8 kHz

E, A, G

630 Meters (472 kHz)

472 kHz — 479 kHz

E, A, G

5 W EIRP maximum, except in Alaska within 496 miles of Russia where the power limit is 1 W EIRP.

Avoid interference to radiolocation operations from 1,900 to 2,000 MHz

160 Meters (1.8 MHz)

1,800 — 1,900 — 2,000 MHz

E, A, G

80 Meters (3.5 MHz)

3,500 — 3,600 — 3,700 — 4,000 MHz

E, A, G

N, T (200 W)

60 Meters (5.3 MHz)

5,330.5 — 5,346.5 — 5,357.0 — 5,371.5 — 5,403.5 kHz

E, A, G (100 W)

CW, 5332 5348 5358.5 5373 5405 kHz

Dig 2.8 kHz

USB 5330.5 5346.5 5357.0 5371.5 5403.5 kHz

General, Advanced, and Amateur Extra licensees may operate on these five channels on a secondary basis with a maximum effective radiated power (ERP) of 100 W PEP relative to a half-wave dipole. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as PACTOR III. Only one signal at a time is permitted on any channel.

40 Meters (7 MHz)

7,000 — 7,075 — 7,100 — 7,300 MHz

E, A, G

N, T (200 W)

ITU 1.3 and FCC region 2 west of 130° west or below 20° north

7,025 7,125

See Sections 97.305(c), 97.307(f)(11) and 97.301(e). These exemptions do not apply to stations in the continental US.

N, T outside region 2

30 Meters (10.1 MHz)

10,100 — 10,150 MHz

E, A, G

200 Watts PEP

Avoid interference to fixed services outside the US.

20 Meters (14 MHz)

14,000 — 14,150 — 14,350 MHz

E, A, G

17 Meters (18 MHz)

18,068 — 18,110 — 18,168 MHz

E, A, G

15 Meters (21 MHz)

21,000 — 21,200 — 21,450 MHz

E, A, G

N, T (200 W)

12 Meters (24 MHz)

24,890 — 24,930 — 24,990 MHz

E, A, G

10 Meters (28 MHz)

28,000 — 28,300 — 29,700 MHz

E, A, G

N, T (200 W)

6 Meters (50 MHz)

50.1 — 54.0 MHz

E, A, G, T

2 Meters (144 MHz)

144.0 — 148.0 MHz

E, A, G, T

1.25 Meters (222 MHz)

219.0 — 220.0 — 222.0 — 225.0 MHz

E, A, G, T

N (25 W)

70 cm (420 MHz)*

420.0 — 450.0 MHz

E, A, G, T

33 cm (902 MHz)*

902.0 — 928.0 MHz

E, A, G, T

23 cm (1240 MHz)*

1240 — 1300 MHz

E, A, G, T

N (5 W)

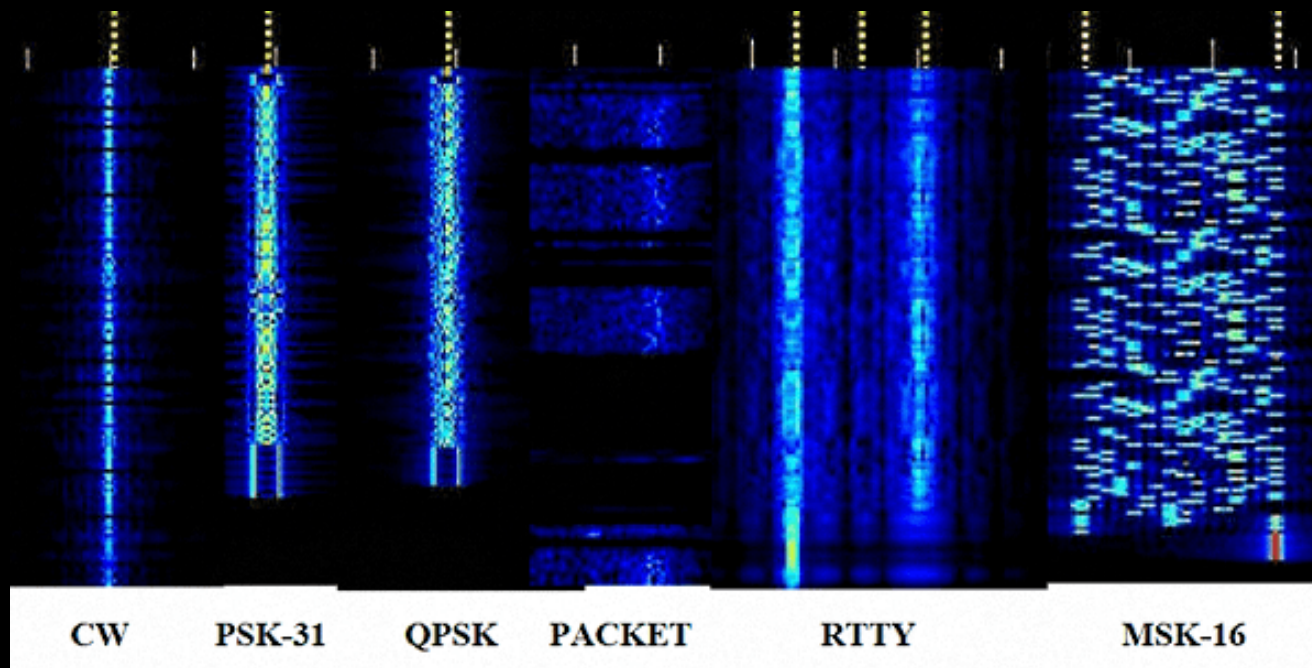
*Geographical and power restrictions may apply to all bands above 420 MHz. See The ARRL Operating Manual for information about your area.

2300-2310 MHz	10.0-10.5 GHz ±	122.25-123.0 GHz
2390-2450 MHz	24.0-24.25 GHz	134-141 GHz
3300-3500 MHz	47.0-47.2 GHz	241-250 GHz
5650-5925 MHz	76.0-81.0 GHz	All above 275 GHz

All licensees except Novices are authorized all modes on the following frequencies:
 ± No pulse emissions

I primarily use 2M/440, but, occasionally get on HF, particularly during contests

Primary Modes of Operation



FM/C4FM on 2M/440

SSB on HF

What WB9LIB Enjoys Most with Amateur Radio

- Able to provide critical communications support during EMA, RACES, & Skywarn operations
- Able to communicate with local friends and associates
- WIRES-X global communications
- Contesting

WB9LIB's Amateur Radio Accomplishments



Setting up an effective HF, VHF, 70 cm amateur radio station



System Fusion

System Fusion
YAESU



In 1998 funded the installation of
the local 444.675 MHz repeater

WB9LIB's Amateur Radio Accomplishments

- In 2021 upgraded the 444.675 MHz repeater to C4FM
- Introduced local digital communications
- Able to connect to WIRE-X & participate in the W9ILS Wide Area Net





The Southern Indiana Weather Spotter's Reference

Serving the Tri-State with LIVE Radar & Weather Updates



TODAY'S SEVERE RISK

LOW SLIGHT MDT HIGH

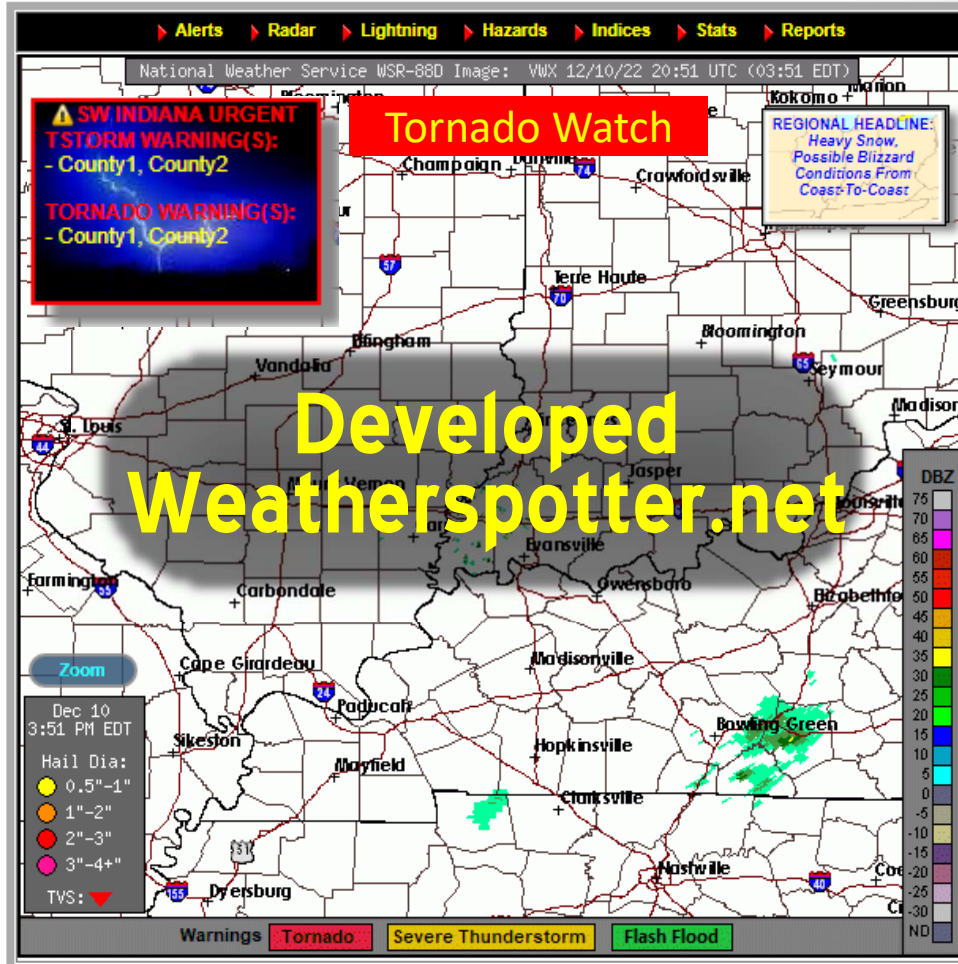
Forecast:

TODAY & TONIGHT.....NO HAZARDOUS WEATHER IS EXPECTED AT THIS TIME.

[Top News](#) .. [Possible Severe Storms Tues](#) [Accuweather Headlines](#)

- Links:**
- Advanced Forecast
 - Amateur Radio
 - Amateur Satellites
 - Climatology
 - Current Conditions
 - Disaster Maps
 - Earthquake
 - Flood
 - Forums
 - Forecast
 - Home
 - Hurricanes
 - Jumpstart
 - Links
 - Models
 - NWS Offices
 - Radar
 - Satellite
 - Spotter Training
 - Storm Chase Live
 - Watches/Warnings
 - Winter
 - Local Forecast:
 - Indianapolis NWS
 - Louisville NWS
 - Paducah NWS
 - Nationwide

Current Visitors: 25



Watches In Effect

Watches Pending

Local Alerts

Severe Outlook

Tri-State Warnings

Thunderstorm: 2
Tornado: 1

1 Report(s) of Tornado(s) On the Ground

Damage Threat

Destructive

Information provided by this site is experimental. Consult the National Weather Service for official weather information

[Stats](#) [Load \(Plot\)](#) [Http \(Plot\)](#) [DNS \(Plot\)](#) [RTT \(Plot\)](#) [Load \(Timing\)](#) [Radar](#) [Alerts](#) [Fcst](#)

[Stress](#) [Proc](#) [Load](#) [DNS](#) [Diag](#) [News](#) [Plot](#) [Internet](#) [CPU](#) [Risk](#) [Post](#)

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Webmaster: gfriz@psci.net

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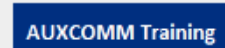
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Gary Fritz's Achievements



Thank You