

# Eastern Arizona Amateur Radio Society

EST. 1974

[www.eaars.com](http://www.eaars.com)

INC.



[facebook.com/groups/eaars](https://facebook.com/groups/eaars)

Club Address: EAARS, PO Box 398, Solomon, AZ 85551



*July, 2024*

## JOIN EAARS on Facebook

EAARS has a presence on Facebook and you are invited to **JOIN** the page. This is a great media to quickly share news, photos and events that are EAARS related or might be interesting to the members. If you utilize "Notifications" on the EAARS Facebook page, you can receive club updates AS THEY HAPPEN.

To reach the page, please visit **facebook.com/groups/eaars** and **JOIN** the page. You must have a Facebook account to be part of the EAARS group.



## EAARS Open Repeaters

PL 141.3 unless noted otherwise

**Echolink:** 614350 **IRLP:** 7787

### **Heliograph Peak at Safford, AZ:**

146.860, 440.700 Linked

146.900, 447.8250 Not Linked

### **Jacks Peak at Silver City, NM:**

145.210 Linked

### **West Peak at Ft Thomas, AZ:**

145.350 Access to link to network

### **Pinal Peak at Globe, AZ:**

145.410 Linked

### **South Mt at Alpine, AZ:**

145.270 Linked

### **Caballo Mt at TorC, NM:**

145.470 Linked

### **Greens Peak at Show Low, AZ**

146.700 Linked

### **Little Florida at Deming, NM:**

147.060 Linked

### **Mule Mt at Bisbee, AZ:**

147.080 Linked

### **Mt Lemmon at Tucson, AZ**

147.160 Linked

### **Guthrie Peak at Clifton, AZ:**

147.280 Linked

### **Downtown at Tucson, AZ**

147.28 Output

146.26 Input, PL 127.3

# Gals on the Air!

**EST. June 2015**

Calling all Gals of any class ... Join us every Monday night for the  
**Gals Night Net @ 7:30 pm (AZ) on the EAARS system!**

**Facebook.com/groups/galsnightnet**

## Upcoming Events

*Would You like to see your event posted for the membership to see?  
Email your information to [emberfire@cox.net](mailto:emberfire@cox.net).*

**2024**

Sept 14 ----- White Mountain Hamfest ----- Show Low, AZ

Oct 26 ----- Alzheimer Event ----- Reid Park, Tucson

***Clubs, send me the events you would like shown here.***

### **WEEKLY EAARS' NETS**

**Every day:**

*Down Under Net - 4:15 am*

*Weather Net - 5:30 am*

*NTS Traffic Net - 6:30 pm*

**All times are noted on  
Arizona time.**

**Sunday:**

*EAARS Net - 7:00 pm*

**Monday:**

*Gals Night Net - 7:30 pm*

**Wednesday:**

*Skywarn Net - During Monsoon, Every Wednesday at 7:30 pm, Off Season, every third Wednesday of month at 7:30 pm*

# EAARS Officers and Staff

## Board Officers

President	Dan Quaintance	AF7EF
Vice President	Joe Montierth	K7JEM
Secretary/Treasurer	Larry Griggs	N5BG

## Staff

Site Trustee	Joe Montierth	K7JEM
Net Manager	Chris Buchanan	N7JND
Newsletter Editor	Angie Buchanan	N7EMB

## Net Control Operators

Rick	W8YBM	1st Sunday
Larry	KG7VLN	2nd Sunday
Chris	N7JND	3rd Sunday
Angie	N7EMB	4th Sunday

## ARRL RADIO CONTESTS

July 2024

13-14 IARU HF World Championship

For details on all ARRL contests and for non-ARRL contests,  
visit <http://www.arrl.org/contest-calendar>

## New EAARS Members!



Ben	KK7TAO
Kevin	AI7GA
Susan	AI7SE



# Field Day 2024

## EAARS - Eastern Arizona Amateur Radio Society



*EAARS Entrance  
sign to FD site*



*20M Moxon Beam  
by Dan AF7EF*



*Charlie KK7UDD  
Millie KK7UDM  
David KK7UDL  
Dan AF7EF*



*Will KJ7JJY  
Dan AF7EF*

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## CARA - Cochise Amateur Radio Association



# Field Day 2024

## RST Takes Over Boy Scout Camp

This year, as we do each year, the Radio Society of Tucson (RST) partnered with the Catalina Radio Club (CRC) to conduct a joint ARRL Field Day (FD) operation, June 22-23, from near the top of Mount Bigelow in the Santa Catalina Mountains. We usually set up our FD operation and camp out on forest service property near the Steward Observation Catalina Station on Mount Bigelow Road. It is a cool place to set up a field operation when the valley floor is at 108-degrees Fahrenheit!

We started planning for this joint venture in early January. The co-chairmen, Avery WB4RTP and Joe K3TYE had already volunteered, and band captains were being sought. Organizing was made easy by having a band captain for each band and mode. The band captains would be responsible for all the equipment for their particular band. For instance, there would be a band captain for 20-meter CW and another for 20-meter phone. Ten-meters had only one band captain because no CW was planned. By early April, band captains were in place for HF bands from 40 meters thru 10 meters as well as VHF and UHF operations.

The Get-On-The-Air (GOTA) station is usually set up and run by members of Scout Troop 157. This year Cameron KK7OLN, a star-rank scout in the troop, was put in charge of the GOTA operation.

For several years, the two radio clubs have relied on the services of Boy Scout Troop 157 to provide food and snacks to the radio operators. This year was no exception. Arrangements were made. The scouts would camp out on the same national forest service site with the radio operators. The scouts would set up their field kitchen on Friday afternoon\*. Meals were to be served from Friday evening through mid-Sunday morning. The food operation is a fund raiser for the scout troop and they always serve a varied, and quality menu.

FD chairman Joe K3TYE noticed that the local scout camp, known as Camp Lawton, was not being used that weekend. What if we rented the scout camp for the weekend? A few quick phone calls and . . . we were in. What an advantage this proved to be! It was a win-win for everyone. Vehicle access was easy. The Catalina Council's Camp Lawton is far from primitive. The RST and CRC radio operators got to sleep in clean cabins. Clean rest rooms with hot showers were on site. The scouts got to camp for free on familiar property. A permanent and very clean field kitchen was made available. Camp fires were allowed. And the Catalina Council BSA collected a handsome rental fee paid for by the RST Club.

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# Field Day 2024

*Continued from Page 5*

Our plan was to only work a 24-hour period so antennas started popping up on Friday. By Friday evening, several antennas were in evidence including a variety of tree-supported dipoles and a 3-element fifteen-meter Yagi. The scouts had the 2-meter GOTA station up and on the air in no time. Joe K3TYE conducted an impromptu class on how to read the current, voltage, and RF power meters on the GOTA station before turning supervision of the GOTA station over to Cameron KK7OLN.

Field-Day Saturday dawned cool and calm with the aroma of hot coffee and bacon flooding the campsite; the scouts had gotten up early. The boys and girls were cooking the standard breakfast fare with some of the radio operators already in line for the hot meal.

By 1800 UTC on Saturday the sounds of CQ field day could be heard. Band conditions weren't the greatest, but weather conditions were. That is until about 1230 local. Was that distant thunder we heard? NOAA weather radio was already sounding off with severe weather watches and warnings. By 1300 we were under a pretty decent thunderstorm but fortunately no wind, so radios were shut down and antennas disconnected for safety. Rain continued on and off until around 1800.

In spite of the rain, the scouts served a terrific lunch and dinner.

Next year (remember there is always a next year), we are hoping to use Camp Lawton again. Joe K3TYE is already working with the Catalina Council to perhaps turn the ARRL Field Day into a Council wide STEM event held at the camp.

*CRCRST 2024 Field Day Participants: total 40. CRC: 8. RST: 14. Some were both.*

*Field Day Participants (People who actually got on the air and made a contact): 8*

*Other licensed participants (Not making contacts): 13*

*Other unlicensed visitors: 19*

*1. Ten additional youth members of Scout Troop 157*

*2. Five adult leaders of Scout Troop 157*

*3. Four unidentified adult guests*

*\*Radio operators who camped overnight were required to take the BSA Youth Protection Training (YPT).*



## **Lightning protection for antennas**

Lightning is a product of thunderstorm development. As thunderstorms develop, the ice crystals inside a growing thunder cloud become electrically charged. When the static charge becomes so great that the insulating air around the crystals can't contain it; the charge is released as a lightning bolt. The lightning will seek the path of least resistance and strike the closest grounded object. Any antenna can act as a giant lightning rod.

Not all areas of the country are equally susceptible to lightning. Some regions are more prone to thunderstorms than others, so lightning protection can be as much of a risk management issue as a safety one. Living in the west, you may not be as concerned about lightning as say someone in Florida. But lightning can occur anywhere, so being on the side of safety is recommended.

### **Lightning protection for amateur radio antennas**

To protect yourself, home, and your radio equipment you need to install some basic lightning protections into your antenna system. Most lightning protection systems serve two purposes: to channel lightning's electrical energy to a suitable ground, and to keep lightning energy from entering your home.

#### **Channel lightning's electrical energy to a suitable ground**

Grounding your tower and antenna system is the first step for lightning protection. All antennas on a single tower or mast should go to a common ground point. If you have multiple towers or masts at your location, then each tower can have it's own ground system. The easiest is to ground your antennas and tower so that a lightning strike will go into the ground and away from your house. Antennas should be ground bonded to the tower and the tower bonded to an eight foot ground rod buried at the base of the tower. 10 gauge solid electrical wire is heavy enough for most antenna systems.

#### **Keep lightning energy from entering your house**

Since the lightning will also follow the coax into your radios, you need to also isolate the coax from the antenna. Lightning arrestors are small devices that are attached inline of your coax feed-line. Like a fuse, they are designed to break the connection when a sudden burst of energy comes across them. There are many brands of arrestors on the market. One such, Polyphaser makes lightning arrestors that can do just that job. In lieu of an arrestor, physically disconnecting your equipment from the feed-line during the thunderstorm is best practice. Lightning energy will follow the feed-line, but combined with a proper ground system, damage may be minimal.

The ARRL has a great series of articles on lightning protection for amateur radio stations. I recommend that you read that information and follow their recommendations. Also check with your homeowners insurance carrier about protection levels and limits on lightning damage. Some companies don't automatically cover lightning damage or have certain limits on coverage.

# White Mountain Hamfest



September 14, 2024

7:00 to 12:00

Show Low Masonic

White River Lodge #62

741 E. Whipple Street

Show Low, AZ 85901

\$10.00 per 10 X 10 space

Setup starts 6:00

Open to Public 7:00

Campers & RV Welcome

Dry Camping Available

Restrooms Inside Lodge

Donation Gladly Accepted

**WMWA@dmbam.com**

VE Testing  
To pre-reserve  
Contact Vince at  
VETESTING@gmail.com

Talk in 146.76  
P/L 110.9  
offset -.6 mhz

Food & Drink available from  
7:00 - 12:00 by the Ladies of  
Masonic Eastern Star



# Other Club Stuff

*From Diane AA3OF: RST VE Testing will be held at Immanuel Presbyterian Church, Witherspoon Hall, 9252 E 22nd St, at 7pm.*

**2024**

July 8

August 12  
September 9

October 14  
November 11  
December 9

If you live in the Graham or Greenlee County and are interested in a VE Testing Session, please feel free to contact Dan Quaintance AF7EF, (928) 235-1152.



**Rise and Shine!!!**

**with  
the**

**Made it through the Night Gang Weather Net**

**0530 Mountain Standard Time Daily  
on the EAARS Repeater System**

**Weather and  
Conversation**

Get a handle on the local weather from your fellow HAM operators around the EAARS coverage area and get to know them better.

We do a technical question of the week on Wednesday and the "Flea Market of the Air on Fridays

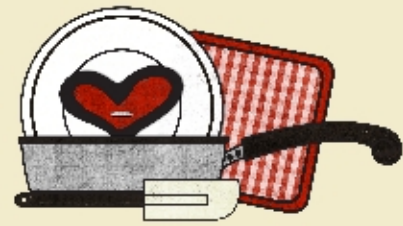
**W7GSP – Steve  
Net Control**

**K1VM/N7CDW  
Keith/Carrie**

Radio Society of Tucson (RST) is now conducting two monthly events for new operators. 1) Radio Days in the Park will meet the 2nd and 4th Wednesday, Reid Park, Ramada #22. 2) Newbies Net on Thursdays, 8pm on 147.000 MHz. Listen on 147.000 MHz, transmit on 147.600 MHz with a tone of 110.9 Hz.

**Do you have any club news to share? It can be posted on this page.  
Send your info to Angie - emberfire@cox.net.**

Cooking up  
Some Magic



# Cowboy Caviar

*This Cowboy Caviar makes a great side dish for any picnic, potluck, or party, and is a great way to use up your summer produce!*



## INGREDIENTS

- 3 Roma tomatoes seeds removed, diced
- 2 ripe avocados diced
- 1/2 cup red onion diced
- 15 oz black beans rinsed and drained
- 15 oz black eyed peas rinsed and drained
- 1 1/2 cups frozen sweet corn, thawed
- 1 bell pepper diced (I used half a green and half a red, but color doesn't matter)
- 1 jalapeno pepper seeds removed, diced into very small pieces
- 1/3 cup Cilantro finely chopped

## DRESSING

- 1/3 cup olive oil
- 2 tablespoons lime juice fresh preferred
- 2 tablespoons red wine vinegar
- 1 teaspoon sugar
- 1/2 teaspoon salt
- 1/2 teaspoon pepper
- 1/4 teaspoon garlic powder

Tortilla chips for serving



*Prep Time: 20minutes  
Servings 12 servings*

## INSTRUCTIONS

1. Combine tomatoes, avocado, onion, black beans, black eyed peas, corn, pepper, jalapeno pepper, and cilantro in a large bowl. Toss/stir well so that ingredients are well-combined.
2. In a separate bowl, whisk together olive oil, lime juice, red wine vinegar, sugar, salt, pepper, and garlic powder.
3. Pour dressing over other ingredients and stir/toss very well.
4. Keep refrigerated. If not serving immediately, be sure to toss/stir well before serving.

kiss the  
**COOK**