

# 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



*June, 2021*

## 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).*

### 2021

Oct 10 ..... Tucson Ham Picnic - N7JND, N7EMB,  
Oct 29 ..... Mt Lemmon Gravel Grinder - Greg W9GRG  
Oct 30 ..... Tucson Alzheimer Walk - Angie N7EMB  
Nov 20 ..... El Tour de Tucson  
Dec 4 ..... Tucson Marathon  
Dec 11 ..... Colossal Vail 50/50 - Greg W9GRG

### WEEKLY EAARS' NETS

**Every day:**

Down Under Net - 4:15 am

Weather Net - 5:30 am

**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

**Saturday:**

ERC (Emergency Response Communications) Net -7:45 am (8:45am DST)

2nd Saturday of the month (20-25 min duration)

All times are noted on Arizona  
time, as we do not change.

# EAARS Officers and Staff

## Board Officers

President	Dave Wells	N7AM
Vice President	Dan Quaintance	AF7EF
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
Angie	N7EMB	2nd-4th Sunday
Chris	N7JND	3rd-5th Sunday

## ARRL RADIO CONTESTS

June 2021

12-14 June VHF

19 Kids Day

26-27 Field Day

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

## New EAARS Members!

Dub	WD7DUB
Ed	KI5MUS
Mark	KG7ZML
Mark	K7VON
Jong	K7JQM
Douglas	AB5FG



## **ARRL to Extend Field Day Rule Waivers from 2020, Add Class D and E Power Limit**

02/10/2021 – ARRL REPRINT

The COVID-19 pandemic-modified ARRL Field Day rules from 2020 will continue this June with the addition of a power limit imposed on Class D (Home Stations) and Class E (Home Stations-Emergency Power) participants. The news from the ARRL Board's Programs and Services Committee comes as many clubs and groups are starting preparations for Field Day in earnest. Field Day 2021 will take place June 26 – 27.

“This early decision should alleviate any hesitancy that radio clubs and individual Field Day participants may have with their planning for the event,” said ARRL Contest Program Manager Paul Bourque, N1SFE. For Field Day 2021:

- Class D stations may work all other Field Day stations, including other Class D stations, for points. This year, however, Class D and Class E stations will be limited to 150 W PEP output.
- 
- An aggregate club score will be published — just as it was done last year. The aggregate score will be a sum of all individual entries that attributed their score to that of a specific club.

ARRL Field Day is one of the biggest events on the amateur radio calendar. Last summer, a record 10,213 entries were received.

“With the greater flexibility afforded by the rules waivers, individuals and groups will still be able to participate in Field Day, while still staying within any public health recommendations and/or requirements,” Bourque said.

The preferred method of submitting entries after Field Day is via the web applet. The ARRL Field Day rules include instructions on how to submit entries, which must be submitted or postmarked by Tuesday, July 27, 2021.

The ARRL Field Day web page contains for complete rules and entry forms, as well as any updated information as it becomes available. Join the ARRL Field Day Facebook page.

**I want to touch base on two items that we tend to post here in the newsletter often. And since we have many new users of the EAARS repeater, it's worth re-posting this on occasion. ~Chris N7JND**

### **The EAARS Courtesy Beep**

First of all, you will notice there's a short timed space between the time the person un-keys their microphone until the courtesy beep sounds. It's this timed space that provides a moment of silence to allow any emergency traffic to break in. If someone urgently needs the frequency, it's that space where they will most likely call. Although it's more commonly used for "COMMENT", "BREAK", ETC... We've all accepted that there are going to be those that must break in with constant COMMENTS. But, the space should ALWAYS be reserved for EMERGENCY break-in's. Our number one purpose for Ham Radio, is to handle emergency traffic. Please reserve this space for such a call.

Secondly, there are so many times people key up immediately after someone un-keys their microphone. THIS IS BAD BAD BAD RADIO PRACTICE. First of all, you are not allowing time for Emergency Traffic to break in. You are also preventing the repeaters the chance to reset their TOT's (Time Out Timers). It's only after the courtesy beep sounds, that the time out timers are reset. If you and the party you are talking with continue to "Quick Key" and continue to ignore the courtesy beep, you WILL time the system out after approx. three minutes. And then someone will usually come on and have to educate you on the courtesy beep (And They Will). With this in mind, you are NOT required to wait for the repeater to drop out to take your turn. That in itself can become quite annoying. Just simply wait for the courtesy beep and continue and enjoy your conversation.

### **The Time Out Timer ( TOT )**

Most modern and many older FM mobiles & HT's, have a TOT setting in their menu. It's extremely important you set this value to 3 minutes for three main reasons which are...

\* Save yourself from embarrassment. Stuck mics have great ears. They like to pick up words and other sounds and discussions that you probably don't want to be transmitting.

\* Save Your Radio... Nothing burns out a final in a transmitter quicker than one being stuck on for hours. Most mobiles & HT's have very poor duty cycles when it comes to the transmitter being on. The finals can heat up very quickly and even the radio's heat sink can be extremely hot to touch as the heat sink is trying its best to do its job. Don't burn out your radio when the TOT can shut off your transmitter after 3 minutes and won't key up again until the PTT is released and keyed again.

\* Stuck mics can tie up a repeater for a long time. Yes, most repeaters themselves have a TOT programmed in them. However, when the repeater times out, it will usually reset in a minute or so and start transmitting the stuck mic again. But keep in mind, when there's a stuck mic on the repeater, EMERGENCY TRAFFIC MAY NOT BE ABLE TO GET THRU.

**HANG THAT MICROPHONE UP!!!**

## **Camp for Young Radio Amateurs in the Americas is a Go for this Summer**

ARRL - 04/21/2021



The long-awaited inaugural Youth on the Air (YOTA) camp for young amateur radio operators in North, Central, and South America will go forward this July. The camp, set for July 11 – 16, will take place at the National Voice of America Museum of Broadcasting in West Chester Township, Ohio, north of Cincinnati. The camp had to be postponed in 2020 due to the coronavirus pandemic.

“The camp will comply with COVID-19 restrictions and guidelines as set by the state of Ohio and the Centers for Disease Control, such as requiring the use of masks, distancing, and sanitizing stations,” said Camp Director Neil Rapp, WB9VPG. “Attendees may be asked to take a COVID-19 test and/or self-quarantine prior to arrival, depending on the guidelines in place in July. The entire staff of the camp are either fully vaccinated or will finish the vaccine series by the end of April. Most volunteers have also indicated that they are fully vaccinated.” Rapp said some activities may need to be modified to work with COVID-19 precautions.

Rapp said that if the COVID-19 situation unexpectedly degrades in extreme fashion or the state declares that the camp is not safe to operate, the event will have to be postponed again, until 2022. “Due to the volatility of the public COVID-19 response, attendees are highly encouraged to avoid non-refundable tickets for transportation to Cincinnati,” he advised.

Twenty-eight campers from the US, Canada, Mexico, and Iceland have already signed up for the 30 available positions, but Youth on the Air will continue to accept applications through June 1. Rapp said a waitlist will be set up, if needed.

It costs nothing to apply. The camp’s cost of \$100 is not due until the applicant has been accepted. Should a potential camper not be able to afford the \$100 fee, he or she may apply for a scholarship. The Youth on the Air website has camp details.

This would mark the first camp ever for young radio amateurs in International Amateur Radio Union (IARU) Region 2. For additional information, contact Rapp.

The IARU Region 1 (Europe, Africa, the Mideast, and Northern Asia) Youth Working Group announced this week that its planned YOTA Summer Camp in Croatia had to be postponed again to 2022, due to the ongoing COVID-19 pandemic.

## **FCC Seeks Comment on Potential Impact of Global Semiconductor Shortage**

ARRL - 05/27/2021

The FCC is seeking comment on the impact of the continuing global shortage of semiconductors. The FCC's May 11 Public Notice stated its concern is focused on the impact the shortage could have on the communications industry, agency initiatives, and the nation's continued advancement in next-generation technologies.

FCC Acting Chairwoman Jessica Rosenworcel commented: "The communications sector is one of the fastest-growing segments of the semiconductor industry. These tiny pieces of technology are the basic building blocks of modern communications — including 5G, Wi-Fi, satellites, and more. That is why we are seeking to better understand the current shortage, its consequences for the communications sector, and steps we can take to ensure that FCC priorities and initiatives remain on track."

Interested parties may file comments online using the FCC's Electronic Comment Filing System. Initial comments are due on June 10, and reply comments are due on June 25.

## **June 2021 Eclipse Festival Seeks Ham Participants**

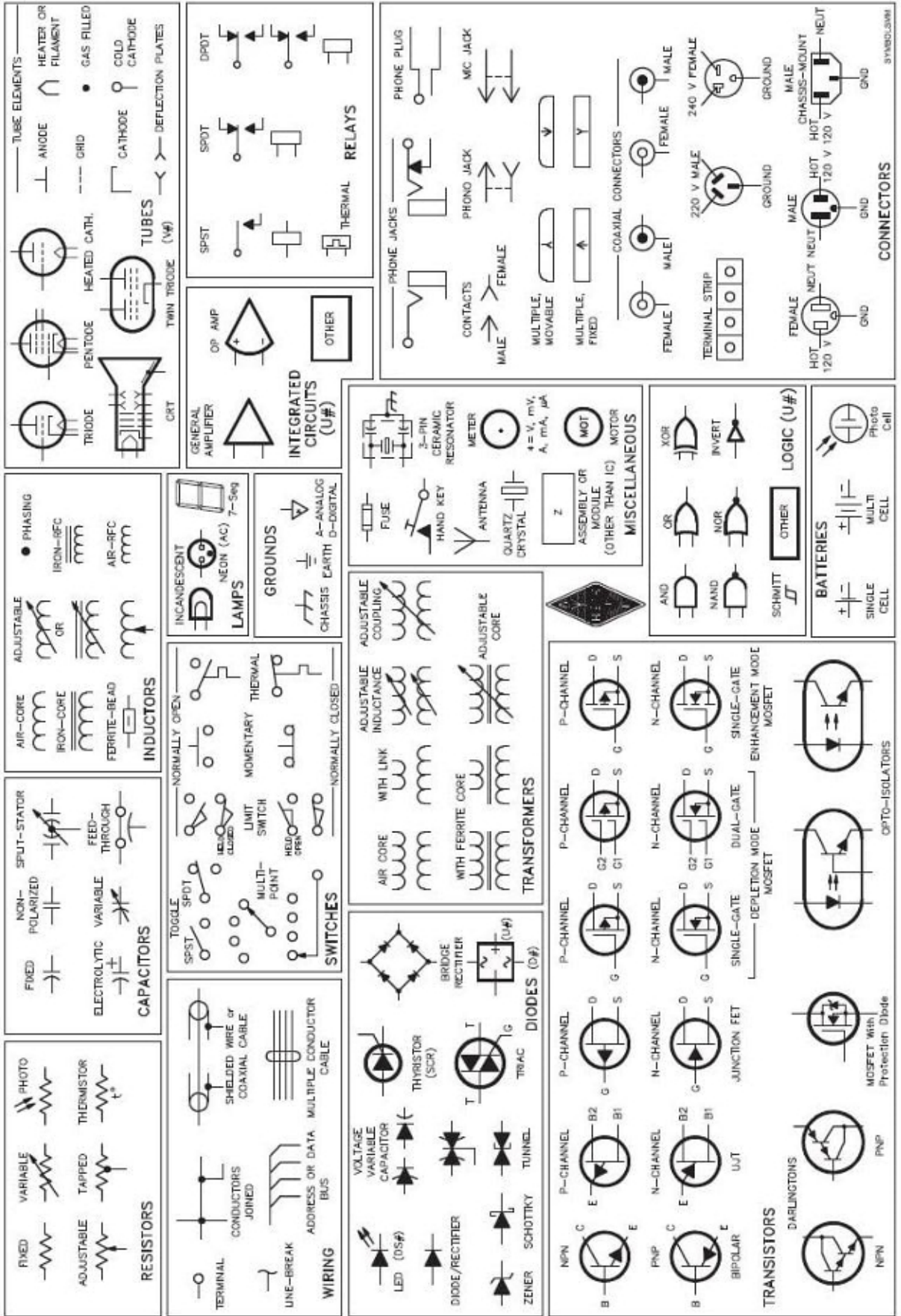
ARRL - 05/25/2021

HamSCI is looking for ham radio operators to make recordings of time-standard stations during the June 2021 annular solar eclipse across the Arctic Circle as part of a citizen science experiment. Researchers will use the crowd-sourced data to investigate the superimposed effects of auroral particle precipitation and the eclipse on HF Doppler shift.

Participants would collect data using an HF radio connected to a computer running open-source software. A precision frequency standard, such as a GPS-disciplined oscillator, is desired but not required to participate. Radio amateurs and shortwave listeners around the globe are invited to take part, even stations far from the path of totality.

Last year's eclipse festivals included more than 100 participants from 45 countries. The experiment will run June 7 – 12. All participants will receive QSL certificates and updates as the data is processed. This is a pilot experiment for HamSCI's Personal Space Weather Station project, which seeks to develop a global network monitoring the geospace environment. For more information and set-up instructions, visit the June 2021 Arctic Eclipse Festival page on the HamSCI website.

# Schematic Symbols for Common Electronics and Electrical Components







**Rise and Shine!!!  
with the  
Made it through the Night Gang Weather Net**

**0530 Mountain Standard Time Daily on the EAARS  
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.**

**W7GSP - Steve Net  
Control**

**K1VM - Keith Weather  
Recorder**



# Other Club Stuff

RST holds FREE VE testing on the following dates, 7:00 pm at Biscuits Country Cafe, 7026 E Broadway, Tucson.

	June 14
<b>2021</b>	July 12
	Aug 9
	Sep 13
	Oct 11
	Nov 8
	Dec 13

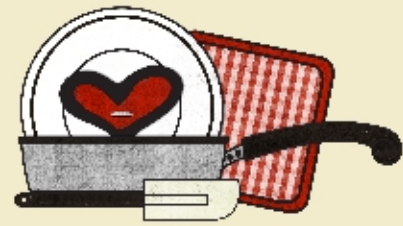
Our club in no way competes with EAARS, In fact, many members of the new club are EAARS members as well. The Tortolita Radio Club has no dues, no rules, no monthly meetings, NEVER any repeaters. We focus on spreading the gospel of HF radio with monthly on-air operating events. We began in 2016 with National Parks on the Air and have continued until the virus interrupted, for a total of over 50 events. We have a website: [www.tortolita-rc.com](http://www.tortolita-rc.com) We have a groups-io email reflector. We have applied to ARRL for club affiliation. We have been issued a callsign by FCC (KJ7RCX) and have applied for vanity callsign KT7RC. We accept members regardless of affiliation with other clubs but we don't actively solicit new members since no money accrues to a club with no dues. We currently have 45 active members, and I stress ACTIVE members.

73 de W8TK  
Tom Kravec

**If you live in the Graham or Greenlee County and are interested in a VE Testing session, please feel free to contact the EAARS President, Dave Wells @ 928-965-8327.**

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

Cooking up  
Some Magic



# Cherry Bars



## Ingredients

1 cup butter, softened  
2 cups sugar  
1 teaspoon salt  
4 large eggs, room temperature  
1 teaspoon vanilla extract  
1/4 teaspoon almond extract  
3 cups all-purpose flour  
2 cans (21 ounces each) cherry pie filling

## GLAZE:

1 cup confectioners' sugar  
1/2 teaspoon vanilla extract  
1/2 teaspoon almond extract  
2 to 3 tablespoons 2% milk

## Directions

Preheat oven to 350°. In a large bowl, cream butter, sugar and salt until light and fluffy, 5-7 minutes. Add eggs, 1 at a time, beating well after each addition. Beat in extracts. Gradually add flour.

Spread 3 cups dough into a greased 15x10x1-in. baking pan. Spread with pie filling. Drop remaining dough by teaspoonfuls over filling. Bake 35-40 minutes or until golden brown. Cool completely in pan on a wire rack.

In a small bowl, mix confectioners' sugar, extracts and enough milk to reach desired consistency; drizzle over top.

## Test Kitchen Tips

Some ovens run cooler than others so you may need to adjust the bake time as needed.

Use any pie filling you like. Blueberry, apricot and raspberry all work well.

For a Black Forest variation, add a handful of mini chocolate chips.

