



The Maury Amateur Radio Club

July
2023

The Maury Radio Club BOX 1871 Columbia, TN 38402 <https://www.w4ggm.org/>

FIELD DAY 2023 RESULTS

FD 2023 ended up with a total of 312 contacts. The phone station amassed 102 Qs, the digital 51 (including 5 CW contacts), and the CW station ended with 159 Qs. Unfortunately, we did not have a GOTA station or a second phone station. Had there been these stations the score could have surpassed last year's 500+ contacts.

The dinner was a good one and looks like everyone had a good time. The weather cooperated this year and the storms stayed away.

Thanks to Justin K4LEN and Rick K4PKA for their leading FD.

My thoughts on FD 2023...

I thought FD went OK although some things could have gone better. More operators both daytime and overnight would have helped take the strain off the primary group. Some club items should have been repaired and checked out between last year's FD and this one. It was great to see our newest hams, Butch KQ4FWR, George KQ4IKI, and Michael KQ4ILA

join us for their first FD. Thanks to other hams who either attended, assisted, operated, or came to the dinner. Everyone is always welcome, licensed or not.

A successful FD requires that planning is done the entire year. FD cannot be thrown together in a month and expecting great results. The site needs to be reserved now and throughout the next 6 months things such as antenna and coax repair and procurement of bandpass filters or new antennas need to be done. The remainder of time from January until FD weekend should be focused on operating schedules (band plans), operator scheduling, club dinner, and networking the logging computers, who's bringing a radio, power source, antenna, and other miscellaneous items such as ice, coolers, etc. Publicity to the media outlets as well as the ARRL FD locator web page is very important.

Thanks again to Justin, Rick and everyone who were part of the MARC FD. Hope to see you all at FD 2024.

73 de Paul WB0CJB





JULY 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2 ARES NET 8:30 PM	3 MTEARS NET 8 PM	4 NEWBIE NET 8 PM	5	6 CLUB NET 8 PM	7	8 THE EXPERIMENTERS NET 8 PM
9 ARES NET 8:30 PM	10 MTEARS NET 8 PM	11 CLUB MEETING 7 PM	12	13 CLUB NET 8 PM	14	15 THE EXPERIMENTERS NET 8 PM VE TESTING 9 AM
16 ARES NET 8:30 PM	17 MTEARS NET 8 PM	18 NEWBIE NET 8 PM	19	20 CLUB NET 8 PM	21	22 THE EXPERIMENTERS NET 8 PM
23 ARES NET 8:30 PM	24 MTEARS NET 8 PM	25 NEWBIE NET 8 PM	26	27 CLUB NET 8 PM	28	29 THE EXPERIMENTERS NET 8 PM BREAKFAST 8 AM
30 ARES NET 8:30 PM	31 MTEARS NET 8 PM					

VE TESTING

VE testing July15th

VE testing will be held July15th at 9:00 AM. The location will be in the CPWS training room, CPWS, at 201 Pickens Lane. **You cannot access CPWS from Highland Avenue.** Use the employee entrance and a sign will be posted outside the correct door.

Bring your photo ID, FRN number, email address, and \$15 test fee. Anyone who already has a Technician license and plans to upgrade to General or Extra must bring a photocopy of their current license (NOT the CSCE). This photocopy will be attached to their test paperwork and sent in to the ARRL.

Pens, pencils, and scratch paper will be furnished. Calculators are allowed but the internal memories must be cleared prior to testing. Smart phones, iPads, and tablets are not allowed and must remain in your vehicle while you test. Upon passing your test you will have the option of taking the next higher test at no extra charge.

The FCC charges \$35 for new (first time) licenses regardless of class. After you pass your test you will be contacted by the FCC directly with instructions on how to pay the \$35. After the FCC receives and accepts the payment you will receive an email with your new call sign. Once you receive your new call you may begin transmitting on all frequencies allowed under your license class.

For any questions or to pre-sign up for the July 15th session contact Paul WB0CJB at 765-635-8915 or by email at wb0cjb@hotmail.com.

See you July 15th!

73 de Paul WB0CJB

FOR SALE

Wade McKinley Staggs KJ4WS. Many of you never knew this man. For those that did know that he was always working on something Electronic. Amateur Radio though was his passion. He left behind a large assortment of equipment and projects. Many in an unfinished or incomplete state. The following is a list of some of those items that are available to those interested in purchasing them. Mostly Vintage equipment and for parts. No prices are listed. All offers will be considered.

Contact Bill Reed W4WRR 615 974 3711
Kenwood TS 50 HF Transceiver Works
Hambuilder HBR4HFS 4 band New
Yaesu FT 100D HF Transceiver
Galaxy Transceiver
Galaxy Remote VFO
HeathKit SSB Transceiver
Heathkit SB 600 Power Supply and Speaker
Heathkit SB 600 Speaker only
Yaesu FLDX 400 Transceiver
TenTec Omni 6 Transceiver
TenTec Omni D Transceiver
TenTec Paragon Transceiver Works
Heathkit SB 200 Amplifier
2 Heathkit SB 201 Amplifiers
ElectroVoice 638 Desk Mic
Motorola Desk Mic
Shure Desk Mic
Yaesu Desk Mic
TenTec Desk Mic
D104 Desk Mic
D104 Silver Eagle Desk Mic
2 Eimac 3-500 tubes
RCA Receiving Tubes Case with Tubes
Many tubes, Capacitors, and Resistors

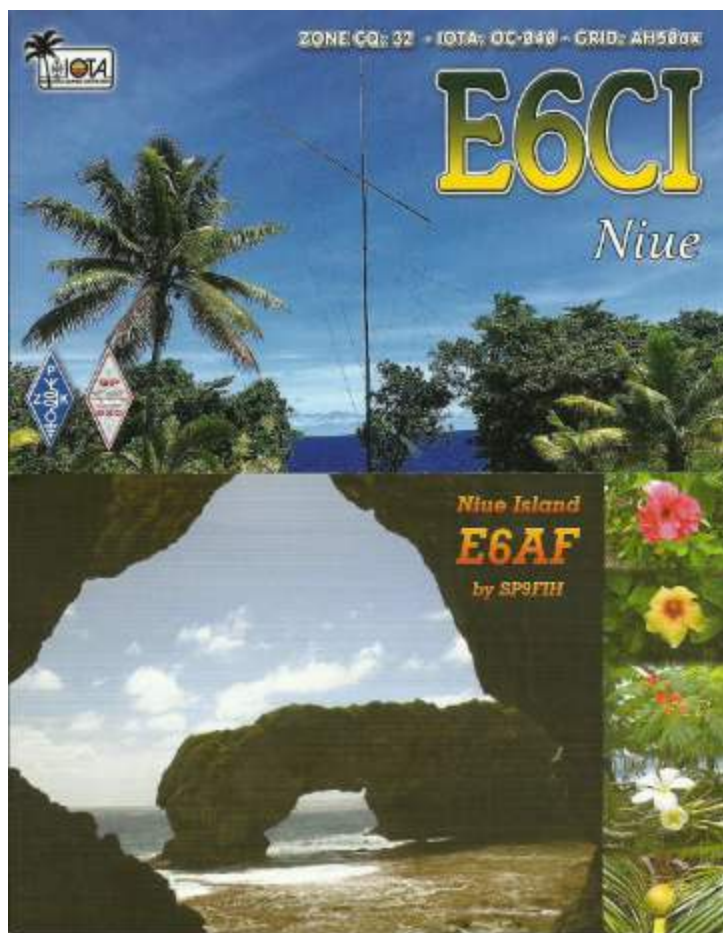
If you have any interest at all on any of these items make an offer! These items need to be sold. Perhaps you'd just like a piece of vintage gear to dress up the shack

CALL 615 974 3711

FROM BUFORD



Buford W4HVV recently received the **WORKED ALL AFRICA** Award. The requirements for this award are to work all 6 Republic of South Africa's call areas, plus 25 of the countries of continental Africa.



Niuean Vaka

To Radio **W4HVV**

E6AF confirms the following QSOs:

Call	Time	Band	Mode	RST
2023-04-02	04:53	20m	FT8	40+
2023-04-04	22:46	10m	FT8	03
2023-04-06	02:47	10m	FT8	4-50

OK for the QSOs.

STRAY CATS...FROM EVERETT WA2BHS

Field Day

Well it seems like summer time now with temperatures approaching the high 90's and makes us so thankful for the good weather for Field Day this year. I think that the threat of bad weather that night might have dampened the turn out some. I believe that attendees had a good time and enjoyed the operation and fellowship.

W4GGM was a 3A station including a Digital, Phone, and CW station. There was no GOTA station but visitors were able to see the other stations in operation. We were powered by solar charged batteries. Scores are being totaled at the time I am writing Stray Cats. I want to thank especially thank K4PKA Rick, K4LEN Justin, and WB0CJB Paul for his many years of service leading our Field Day efforts. Enjoy your retirement Paul.

The Meeting was short, the dinner was tasty, and we had a good time. See Y'all next year.

N4EO's Bayou Jumper Finally Finished

Well folks it took about four years to finish Jerry's Bayou Jumper. When I took on the project I saw it as a short term project. I had problems with missing parts and it slowed me down. I felt so bad that I took Jerry one of my Bayou Jumpers to use as I worked on his build. Sadly Jerry Passed on. I finished the kit and had some trouble finding the tuning range of the receiver and asked for help from a friend. Finally the kit was completed and the dial calibration chart finished. The receiver worked like a champ. The transmitter put out a clean 5 watts on 40 meters. Old "Murphy" visited my shack. Somehow I had lost most of my crystals. After a extensive search I decided to order the 7 pack of HC49 crystals from www.qrpme.com and some crystal adapter boards from www.4sqr.com. As soon as they arrive I will actively be back on the air. I told Jerry it would take a while and it did. Hi Hi



WANTED YOUR OLD FT-243 Crystals

I am looking for your old FT-243 crystals from 69xx to 7125 kc. If you have any in this range I would be willing to pay a reasonable price for them. Some will become donor crystals for grinding and others between 7025 to 7125 will be used as is. Please contact me at wa2bhs38401@gmail.com

FOR SALE Kenwood TS-120S HF Transceiver

I have a working Kenwood TS- 120S transceiver with a MFJ Versa Tuner 2 and Astron power supply for sale. I will take \$240.00 OBO. It will be pick up only. Reason for this is I want the prospective buyer to use it, and know what it is he is buying. This is the only way I will sell



Astron 20 Amp Power Supply



If interested contact
Everett WA2BHS

wa2bhs38401@gmail.com

Ph. 601 214 2975

BLAST FROM THE PAST...1979 ADVERTISEMENT

TS-120S...A big little rig.



NEW!

It's a compact, up to 200 watts PEP input, all solid-state HF transceiver with such standard features as built-in digital readout, IF shift, new PLL technology ...and requires no tuning!

Exciting and perfect for car or ham shack use! But, there's more to say about the TS-120S! This unique all solid-state HF, SSB/CW transceiver produces a hefty signal and also offers a lot of other great features in a very attractive, compact package.

FEATURES:

- All solid-state with wideband RF amplifier stages. No final dipping or loading, no transmit drive peaking, and no receive preselector tuning! *Just dial your frequency and operate!*
- Five bands, plus WWV. Transmits and receives on 80/75, 40, 20, 15, and all of 10 meters...and receives WWV on 15 MHz.
- 200 watts PEP (160 watts DC) input on 80-15 meters, 160 watts PEP (140 watts DC) input on 10 meters. LSB, USB, and CW.
- Digital frequency display (standard). 100-Hz resolution. Six digits. Special

green fluorescent tubes eliminate viewing fatigue. Analog subdial, too, for backup display.

- IF shift (passband tuning), to remove adjacent-frequency interference and sideband splatter.
- Advanced PLL circuit, which eliminates need for heterodyne crystal element for each band. PLL lock frequency, CAL marker signal, and counter clock circuit use single reference frequency crystal. Simplifies processing circuitry, improves overall stability. Also improves transmit and receive spurious characteristics.
- Attractive, compact design. Measures only 3½" high X 9¼" wide X 13½" long, and weighs only 4.9 kg (11.7 lbs.). A perfect size for convenient mobile operation and rugged enough for either mobile or portable use. Also has all the desired features for optimum ham-shack operation at home.

• Noise blanker. You'll wonder where the ignition noise went. See the big little TS-120S rig and matching accessories (VFO-120 remote VFO, SP-120 external speaker, PS-30 AC power supply, MB-100 mobile mounting bracket, AT-120 antenna tuner and YK-88C CW Filter) at your nearest Authorized Kenwood Dealer!



STILL AVAILABLE...
KENWOOD TS-520S



KENWOOD

...preselector in amateur radio

TRIO-KENWOOD COMMUNICATIONS INC.
1111 WEST WALNUT / COMPTON, CA 90220



ANY HAMFEST COMING UP?

July 22 - Cullman Amateur Radio Club Hamfest

Location: Cullman, AL

Type: ARRL Hamfest

Sponsor: Cullman Amateur Radio Club

Website: <https://cullmanarc.com/hamfest/>

July 22 - Greater Nashville & Middle TN HamQuest

Location: Lebanon, TN

Type: ARRL Hamfest

Sponsor: Wilson Amateur Radio Club, Inc.

Website: <http://midtnhamquest.com>

August 19 - 08/20/2023

Huntsville Hamfest, ARRL Alabama State Convention

Location: Huntsville, AL

Type: ARRL Convention

Sponsor: Huntsville Hamfest Association

Website: <http://hamfest.org>

August 26 - Cedars of Lebanon Hamfest

Location: Lebanon, TN

Type: ARRL Hamfest

Sponsor: Short Mountain Repeater Club

Website: <http://www.arrl.org/hamfests/cedars-of-lebanon-hamfest-3>

October 20 - 21 Hamfest Chattanooga 2023

Location: East Ridge, TN

Type: ARRL Hamfest

Sponsor: Chattanooga Amateur Radio Club

Website: <https://www.hamfestchattanooga.net>

TIDBITS...

What is a TIDBIT? Something short and sweet like a Twitter. Something interesting to check out. Maybe an interesting web site or YouTube video, or maybe questions or suggestions. Send you TIDBIT to k4bx@arrl.net

Great info about the Magic Band, 6 meters

If you are wondering about the 6 meter band, Jim K5ND has a wonderful guide explaining all aspects of the magic band. Early summer is a great time to keep an eye on the band. The band is very quiet and when open it's amazing what you can work with low power and simple antenna. I've worked 47 states without even having a 6 meter antenna.

<https://k5nd.net/2020/11/guide-to-6-meter-dxing-getting-started-on-the-magic-band/>

THE RADIO OFFICER'S LAMENT

We recently came across this bit of rhyme, lamenting the passing of the age of the true Radio Officer. Today, merchant ships are staffed by Electronics Officers, who maintain the electronic equipment, for communications or not, on a ship.

*In a cold and lonely radio shack, where the last receiver stands,
A museum set of manuals held idly in my hands,
With my jargon half forgotten, of my stock-in-trade bereft,
I wonder what's ahead of me - the only Radio Operator left.
With the office sprouting gadgets like a nightmare Christmas tree.
There are keyboards for computers, where my Morse key used to be.
And I couldn't read steam morse 'midst this lunatic array,
For at every height and angle there's a visual display.
The proud, efficient Sparkie has been rendered obsolete
By electronic equipment fitted in the Merchant Fleet,
And tho' a signal's through the system in the blinking of an eye,
No-one's got the time, to even make a cup of kye.
To delete the human error, to erase a noble breed,
We rely upon a microchip, we put our faith in speed.
We press a key, and make a switch, and spin a little disc,
it's one ton per cent efficient - and never mind the risk.
But again I may be needed, for the time will surely come
When there's a fault within the system and the modern stuff is dumb,
When the satellites are useless but morse is there for free -
T'was good enough for old Marconi, and it's good enough for me.*

The Maritime Radio Historical Society is dedicated to keeping this former R/O's dream alive ...

from Thurman N4KN

REMINSCING... FROM THE EDITOR

My kit building began before I even knew what ham radio was at the age of 13 back in the early 1960's. After building a crystal radio in a 7th grade shop class the teacher recommended building a Knight Kit Ocean Hopper (from Allied Radio). It was a simple 3 tube regenerative receiver which covered everything up to 30 megacycles. Not knowing a resistor from a capacitor and having never soldered before, the thing actually worked! I don't know what I was expecting but it's an indescribable feeling when you applied power to it the first time not knowing what could happen.

My next kit was a Heath Kit VTVM (vacuum tube volt meter) and it was a lot more complicated than the Knight Kit and this one didn't work when I finished it. Now keep in mind I'm just a poor 14 year old and what the heck was I going to do with a VTVM anyway? I looked it over a few times and couldn't find my mistake and ended up sending it back to Heath Kit. A few weeks later I get a letter describing the repairs and a bill for me to pay before they would send it back. I write back explaining I'm a kid with no money and stating that their catalog said their kits were guaranteed to work. A while later I find a package on the porch and it was my VTVM all repaired.

My only other kit build that failed was a Heath Kit 2 meter synthesized rig. It was the most complicated kit I ever seen. It was just tightly packed with parts that the soldering was really hard. After it didn't work, I went over every part (more than once) and just could not find

anything wrong. I shipped it back to Heath and they found that one pin on one of the IC's was not soldered! How stupid was that?

I've built so many kits after that I couldn't even list them all, mostly Heath Kits which is the only ham gear I used until they went of business. I think I built every HF rig Heath had except the QRP ones. I reckon I didn't believe in QRP back then and that leads me to another story.

QRP

One day I was on 80 meter CW having a QSO with a friend when I was getting QRM'ed pretty bad. I start listening to this QRM'er and he is saying he is running 5 watts! That did not spark my interest in QRP but I never forgot it. After meeting Jerry N4EO back in the 90's I really got the QRP bug when he let me take his Elecraft K2 home to play with. Shortly afterwards sold my 100 watt Yaesu rig to get my own K2. For about 10 years I didn't even have a 100 watt rig. With QRP I had no problem working stations, and even worked some good DX. I'm not sure if I worked a hundred countries but bet I was close. My greatest accomplishment was working all states with QRP to QRP. The K2 was the last kit I built. Oh.... That is not right. An Elecraft K1 was the last one.

You didn't need to know a thing about electronics to build these kits. They had step-by-step instructions with pictures. All parts were clearly illustrated

73 Bill K4BX



Easy way to remove a multi lead component from a circuit board

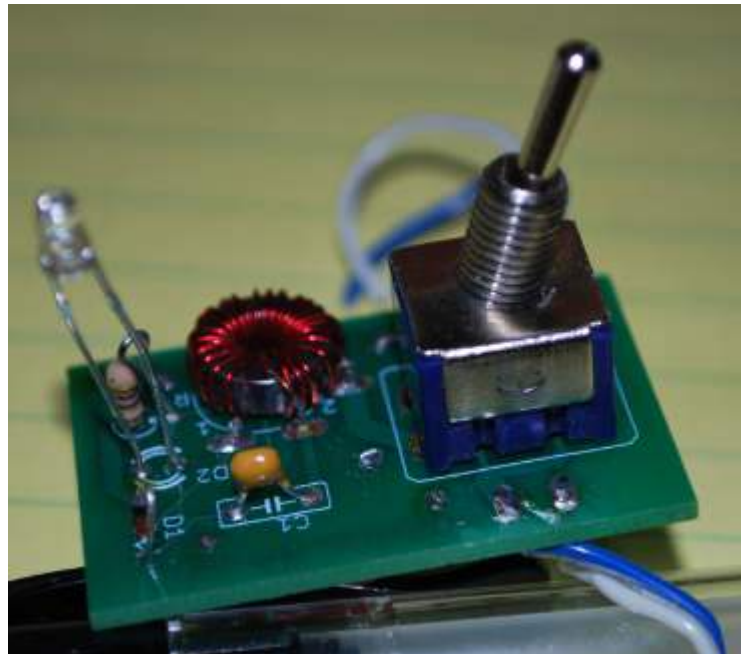
How many times have you been faced with removing a multi lead component from a circuit board? If it is a resistor, capacitor, transistor, or multi pin switch I offer you this tip.

Take a pair of nippers and cut the leads as close as you can to the device leaving as much wire as you can. With a solder sucker or soldering wick heat up the connection, and with needle nose pliers remove each lead one at a time and then clean out each hole with solder wick. This will allow you to easily replace the component.

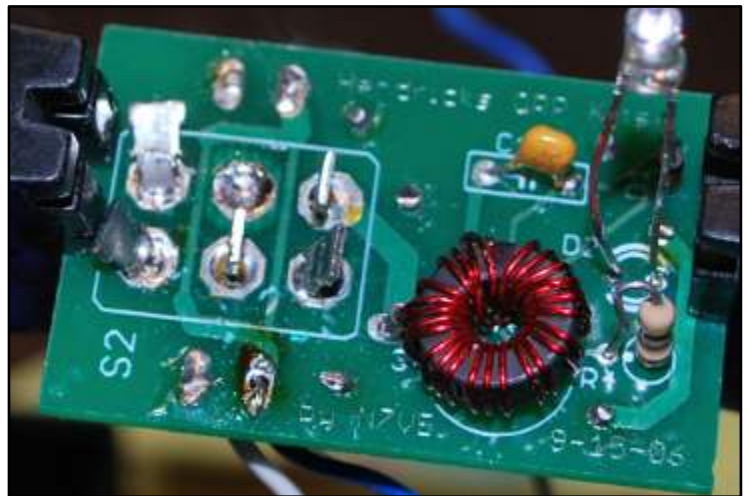
Now for the removal of the switch I tried using a manual solder sucker on all six solder points. I could never get it clear enough to pull the switch out. I decided to take the switch apart by removing the shiny metal band that goes across the top and sides with a small flat head screw driver. This exposed the blue plastic body which I then started chipping away with a pair of diagonal cutters. Finally this left only the six metal switch pins. Repeating the process I was able to remove the pins, clean out the holes, and mount the new switch.

Maybe some day I will get a bona-fide desoldering station but for now this process works and I don't make that many mistakes to justify it. Hi

73 Everett WA2BHS



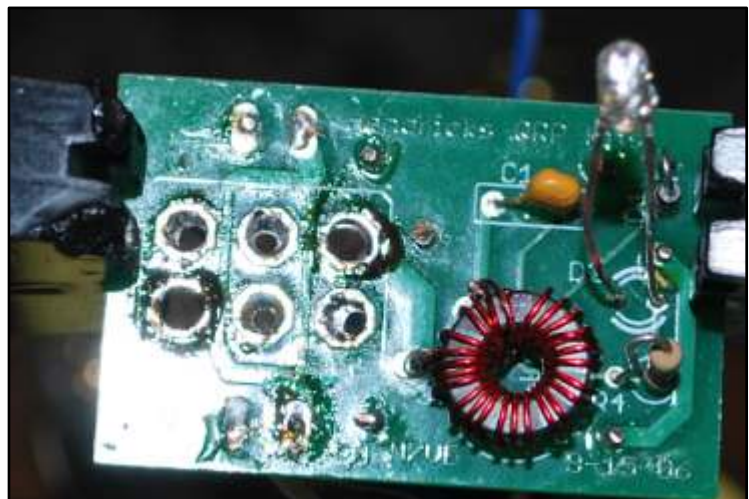
Defective 6 pin toggle switch to be replaced



After switch pins clipped and ready to be removed



Soldering new switch in place



After switch pins removed and holes cleared

AM Radio

Do you remember listening to the AM radio when you were a kid? Unless you are pretty young, I'm thinking most of us remember the house having an AM radio (or 2) for listening to music. Most of those old receivers were called an All American 5 (AA5) because the basic design used 5 vacuum tubes. Some years ago I had 2 of these AM receivers that I took to one of the club's auctions so someone in the club has them.

Anyway... Fran KM1Z mentioned he was going to pull a couple of AA5 radios out of the shed and maybe restore them. There may be an article about his project in a future newsletter. Getting these radios working after setting for many years usually involves replacing most of the capacitors and maybe a few other parts. The tubes themselves are usually very reliable and if one needs to be replaced it's usually the 50C5 audio amp from what I remember.

Many years ago I was visiting Norm W4CCV and he had a beautiful old wooden floor console radio in his music room. I mentioned that I'd love to have one just to have setting in the dining room as a piece of antique furniture not caring if it would work or not. Norm told me these old radios were indestructible and easy to get it working. We checked Craig's List and found one not too far away for \$100 and off we went to pick it up.

I don't think we even tried it when we got it back to Norm's garage. I'm sure the old cloth covered power cord looked a little scary to plug in. Norm pulled the radio out of the wooden cabinet, pulled all the tubes, and replaced all the paper capacitors as well as a new power cord. If I remember right the tubes tested OK and Norm did get the radio working just fine. The radio was a RCA model K60 built in 1939. It wasn't just an AM broadcast receiver, it had to shortwave bands also. It initially sold for \$59.95 which may have been a few weeks wages back then.

One day I stared at that radio which is in my dining room, and though about people sitting around it in the evenings to get the news (no TV in 1939) and listen to music. Then I realized that people sat around that radio listening to the World War 2 going on!

Radio activity...

Haven't been doing a whole lot on the radio this past month. More than anything I've been monitoring 6 meters. This is the best time of year for 6 meter propagation but I've only caught a few days when it was really hopping. I did manage to work Utah for my 48th state. I don't have much faith in getting Alaska and Hawaii since I don't even have a 6 meter antenna! I've been using my 20 meter dipole that



seems to be working pretty good. An interesting sidetone about antennas, I tried using my 80-10 meter EndFed antenna on 6 meters and it looked good SWR wise but I could never make a contact on 6 meters with it. I came close one day when I seen a QRP W8 station calling CQ. He was fairly strong so I figured he'd hear me but he could not complete an FT8 contact with me. That's when I got Linda out in the back yard to help me put up a 40/20 dipole.

I did look for a few new POTA guys yesterday and think I put 4 new ones in the log yesterday. About a month ago I was really into the POTA stuff but 6 meters has got my attention. I checked out 17 meter FT8 yesterday afternoon and it was crazy with DX from Asia. I seen a XV1X station working one station after another and when I looked it up it was from Hanoi Viet Nam. After calling him about 20 times he decided it was my turn. That was a new one for me. While waiting my turn I seen one in the Philippines and that was another new one for me.

Speaking of FT8 does anyone out there use JTDX software instead of the WSJT-x? I've always used JTDX but it's been so long since there has been any updates, that I have gone back to WSJT-x. What are some of your favorite ham radio programs?

73 Bill K4BX
k4bx@arrl.net



JUNE MINUTES

June's Meeting 2023-06-24

Field Day at Maury County Park
18:30 Meet & Eat
19:00 Meeting starts

Meeting called to order at 18:57 by Joe our Pres, N4JW.
In Attendance: 29 in person & No Zoomies.

Accept last months minutes as published in newsletter:
Motion to accept: Rick K4PKA
2nd: Everett WA2BHS
Passes

Financial Report: Not available at meeting and I forgot to ask Paula for one.

New Motions: None

Announcements/News:
> None

Presentations: None

Motion to adjourn: Jay KN4JGH
2nd: Justin K4LEN
Meeting adjourned at 19:00.

73, KK4FHS