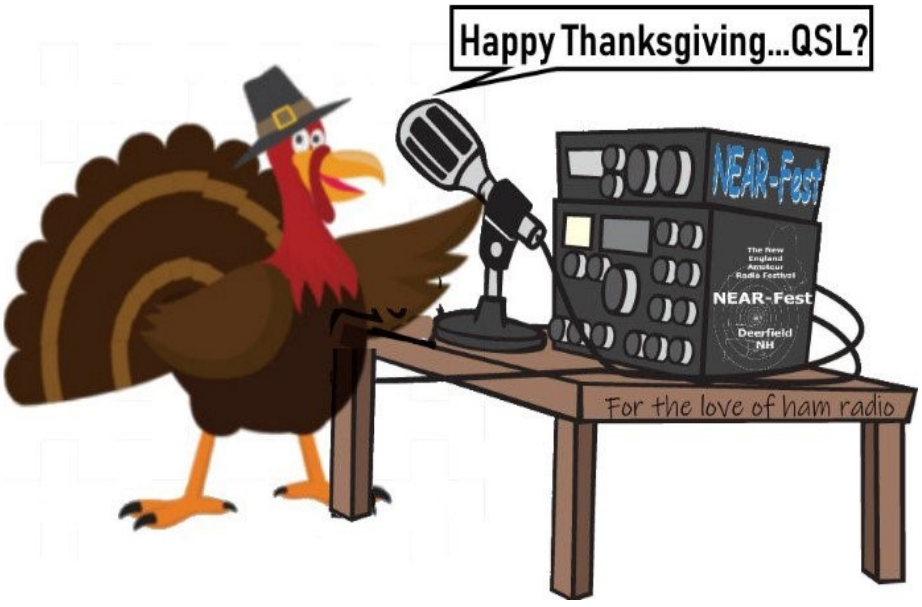
Treasure Coast Ham News

NOVEMBER 2022 VOLUME 3, ISSUE 9

INSIDE THIS ISSUE

Individual articles are bookmarked. Click a listing to go to the page.

Happy Thanksgiving



Traditionally, Thanksgiving Day was a celebration of a bountiful harvest. The Pilgrims were joined by Native American Wampanoag people at their celebration. The two groups socialized congenially. Thanksgiving Day was not an official holiday until the 19th century. Thereafter each year a National day of Thanksgiving was proclaimed. It was in 1942 when the fourth Thursday in November was designated as Thanksgiving Day.

As we celebrate Thanksgiving Day on November 24, 2022 let us remember the meaning of the day.

Treasure Coast Ham News is retooling the newsletter. Please bear with us over the coming months as changes are made.

From the Publishers

Hams love to communicate. After all its in our DNA. We have no shortage of ways to express ourselves including the many operating modes, club meetings, hamfests, the Internet, and of course a newsletter. Now that's an interesting thought.

At the recent PCARS Mebourne Hamfest I listened and sometimes participated in interesting conversations about new and old radios, propagation, antennas, technology and the state of ham radio in general. For me hamfests are juice for the brain.

I usually attend hamfests with an old friend. He is not a ham, but his grandfather was. We have known each other for almost 40 years. Our conversations can take many paths. Invariably, when we see something of interest at a hamfest, a discussion will start on how it could be used for an electronics or ham radio project. With dwindling attendance at local hamfests, we know future outings could be numbered and say "well, this is it." But then the next hamfest comes along and we make plans to attend.

In 1983 a probation company asked if I could help them develop an in-house arrest system. The genesis of in-house arrest was to have non-violent first time offenders serve their sentences at home using electronic supervision. Home time was closely monitored via the technology, usually by law enforcement. Most early in-house arrest systems were commercial wireless alarm equipment. An RF door/window transmitter in a waterproof housing was attached to an ankle. A status signal was sent to a home radio receiver every minute or so. The receiver communicated to the monitor via a digital modem at a predetermined interval or if the unit went out of range.

I sought design help. The person I found turned out to be someone I talked with at a hamfest about electronics, alarm systems and radios. We started as business associates and have been friends (and hamfest buddies) ever since.

We were able to get access to one of the in house arrest systems and found it had many issues. One was battery life. Sending a message every couple of minutes ate up the ankle unit battery very fast. Another, the system lacked security both with the ankle and home units. Wireless alarm equipment was not a good solution. It would have been easy to repurpose alarm equipment as others were doing, but we wanted a better mouse trap and design.

So how did we build our better mouse trap? Elementary of course, we communicated.

73, *TC Ham News Publishers*

PSLARA email from librarian

(The Port Saint Lucie Amateur Radio Association recently received a nice email from a librarian.)

"**I**'m just reaching out to let the Port Saint Lucie Amateur Radio Association know your web page was a big help to our library! (pslara.org/links.aspx) …My name is Charlene Stagle and for the month of October, our library is exploring the history of innovations in science and technology with a 'famous inventors and inventions' seminar. The kids are currently learning about the history of the radio, including early broadcasting techniques and amateur radio, and how it impacted society. Your web page led us to some great information on amateur radio to incorporate into our lessons, so the kiddos requested I reach out and let you know :)"

"As a thank you, I wanted to pass along this reading on the history of the car radio our member Nicole found. It's a fantastic timeline of radio and audio systems throughout the years, covering the early stages for military use and evolving into the radio we know today with the invention of the vacuum tube. The additional reading on historical broadcasting and the golden age of early radio was really neat for the kids to learn about too. This is it... https://www.titlemax.com/articles/the-history-of-the-car-radio/"

"Nicole was very excited to share it with you! She thought it would make a wonderful addition. Will you let me know if you're able to include it for her? I know Nicole would be delighted to see she could help! She's really enjoyed working on this project and is even in the works to get her HAM license! We all meet again on Thursday evening! Thanks for keeping the love of radio alive!"

"**L**ooking forward to hearing from you! Mrs. Stagle"

(PSLARA added a link on web site and president sent a reply.)

Volunteer Examiner Updates

Local License Exam Contacts

Vero Beach ARC
Bud L. Holman
(772) 559-3342
budholman@earthlink.net

Ft. Pierce ARC
Jess Porter
w4dns@arrl.net

Port St. Lucie ARA
Robert Brown
(772) 201-5485
brownpsl@comcast.net

Send VE news to
tchamnews@gmail.com

If your club is testing, please let us know the location, date and examination results

Results from VE Session at Melbourne Hamfest

We received a report of one treasure coast ham participating in the VE exam session at the Melbourne hamfest.

Treasure Coast Ham News and the local VE teams extend congratulations to Rob Cook, a member of the Port Saint Lucie ARA. Rob took and passed the Technician exam, and earned call sign KQ4DXK. Way to go, Rob! Now start studying for the General exam!

* * * * *

No Other Recent Exam Activity

We have not received reports of any recent VE exam sessions held by the local Treasure Coast clubs.

We remind local VE examiner teams: If you are planning an exam session, let us know the date so we can help get the word out.

If you have an exam schedule planned for the 2023 calendar year, share your schedule with us so we can publicize the sessions for you.

Also remember to send us a note after you hold an exam session. Let us know the names and call signs of your candidates who pass their exams so we can congratulate them on this page. After all, who doesn't enjoy seeing their name in print?

* * * * *

Port Saint Lucie Exam Session Scheduled 10:00 AM November 5, 2022

The Port Saint Lucie club will hold its first ever VE exam session at the Pruitt Campus of Indian River State College in St. Lucie West.

The session will be held at 10:00 AM on Saturday, November 5, 2022 in the Veterans Resource Center, located at the north end of the campus. The street address is 500 NW California Blvd., Port St. Lucie.

Exams will be offered for all three license classes. Walkups are welcome at this session.

Directions - From St. Lucie West Blvd, head north on NW California Blvd about 1-mile. The college will be on your left. Turn left into the campus using the second (north) entrance. Then make an immediate right into the parking lot. The Veterans Center will be directly in front of you. A map is available here.

* * * * *

Reminders for Exam Candidates

Candidates are reminded they must have a FCC Registration Number (FRN) to take an exam. Social security numbers are no longer accepted. Visit fcc.gov to obtain your FRN.

If planning to upgrade your license, be sure to bring along a copy of your current license. The VE team must submit the copy with the exam session paperwork.

The fee to take an exam is $15. Fees must be paid at the time of the exam by cash or check made payable to ARRL/VEC. Credit cards not accepted.

Ham Radio History: The Audion

by Chris Codella, W2PA

Vacuum tubes revolutionized radio, changing it more than any other single invention. When first introduced, however, even the scientists and engineers working with them did not fully understand how they worked. One of the first tubes to appear in *QST* was the Audion, by DeForest. Although it had been introduced back in 1905, it was expensive and amateurs did not begin to use it until seven years later, when 22-year-old Edwin Armstrong demonstrated its practical use as a regenerative detector.

In the very first issue of *QST*, tucked in the back on page 22, a teaser stated that the next issue would be "a wonder," containing, among other things, information on the newest technology, the Audion detector. So in January 1916, Tuska published the lead article, "The Oscillating Audion," about using a vacuum tube as a detector.[1] For "the technical" of the "valve," he referred the reader to Armstrong's writings where the principles of regenerative reception were presented in full.

The idea, he explained, was to combine an incoming signal with the signal of oscillation in the tube, producing an audible beat note.[2] Lacking a fundamental understanding of why it did what it did, he took an experimenter's approach and advised operators to play around with the adjustments until they found the right settings to receive signals. He reported that signals from professional stations over 5,000 miles away had been received by an east coast ham using the "***Audion***."

As hams began to experiment with the Audion, the *QST* editor asked for anyone experienced with it to send in details for publication. The March editorial claimed that 90% of amateurs did not know how to use it properly.[3] As an expensive luxury, hams could not afford to be burning them out, as was the tendency. It was widely known, however, that the most effective stations were using Audion detectors. Some hams were even using them to receive *continuous wave* signals, considered a potentially important development in radio should it be shown to be practical, despite the DeForest company disapproving the use of the Audion this way.

Perhaps answering this call for help, the lead article in the same issue (March Radio Bulletin) was, "Practical Pointers on the Audion," written by A. B. Cole, electrical engineer and Sales Manager at the DeForest Radio Tel. and Tel. Co. It was the first authoritative paper about vacuum tube technology to appear in the magazine.[4] Filling four full pages, complete with a picture of the author, the article was the longest yet to be published in *QST*.

Cole devoted four paragraphs to establishing his credibility as an authority, while yet a true member of the amateur radio community. His opening sentence stated that his purpose in writing was "not to sell Audions but to assist those who use the justly famous Audion to obtain the best results." Maybe he thought it necessary to write this because his sales title was in the by-line, but he probably also intended to attract more buyers despite this disclaimer. He professed to want to set the record straight, asserting that much had been written in error about the Audion "without authority of the patentees." Although he had been working professionally in the field, he considered himself an amateur radio pioneer, having been active since 1904, experienced with the Audion since 1908, and was firmly an amateur "at heart" (whereas, he claimed, many commercial radio types were known to "look down" on amateurs). He also admitted that despite extensive experience with Audions, he did not "know it all," unlike many less experienced authors, in his estimation, who nevertheless seemed able to write whole books on the subject.

No two Audion "bulbs" were exactly alike, he explained (implying a lack of control in the manufacturing process), and therefore it required careful circuit design and especially careful layout to get good results from them. According to Cole this was one reason the company did not sell them separately from the complete detector. (It's fair to assume that they also made more money on the detector than on the Audion alone.) Moreover, removing the Audion from the detector, as many apparently did for experimentation, caused the guarantee to be "immediately dissolved." He cited an example of an amateur who

(continued on page 5)

Ham Radio History: The Audion

had installed one in his own cabinet, could not get it to work after substituting parts, blamed it on the Audion, and sent it back. The company discovered it to be in perfect working order when used in the proper detector.

There were two grades of Audion: S and X. S was the regular grade, having passed a test of sensitivity to weak signals when compared with a standard, the most sensitive crystal detector available. X grade bulbs were ones that exhibited significantly higher sensitivity than the standard. Between one and ten percent of a production run might be designated X grade. Cole claimed that this method of testing using a practical receiving situation was more meaningful than "theoretical" testing, which he oddly defined as inferring performance solely by measuring terminal characteristics. He also stated that the DeForest company's chosen testing apparatus consisted of standard amateur equipment so as to not bias the results by using equipment specially designed for the Audion. This appears to contradict his previous statement about the need for great care in designing such circuits, but it may be that he simply meant standard, properly designed, amateur equipment.

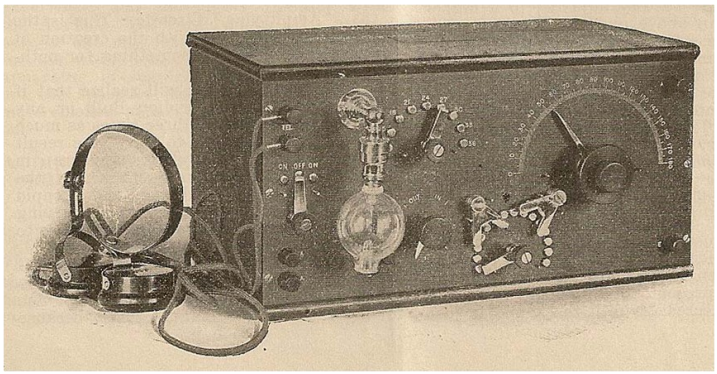
The four most common troubles with Audions all stemmed from wiring batteries improperly or using batteries that were too depleted, wrote Mr. Cole.[5] The fifth had to do with lack of sensitivity at long wavelengths (above 1500 meters), which was attributed to inefficiencies in the typical tuner, not the Audion itself (of course).

The batteries were designated as *A* (the grid supply), *B* (the plate, or *wing,* supply, and is the reason why B+ is commonly used to mean plate voltage), and the *lighting battery* for the filament. It was sometimes necessary to reverse the polarity on the lighting battery to get the circuit to work, though no reason was given in the article. Perhaps no cause was known to Cole or the company.

A tuner was properly operated by adjusting the voltages for maximum weak signal sensitivity while listening. The objective was to first obtain some zero-signal background sound (hiss), then back off on the filament to extend the Audion's life while leaving it set at a critical point of maximum sensitivity.

Some fallacies needed correcting, he wrote. You cannot use a detector bulb to build an amplifier — they are entirely different functions. You cannot operate detectors in excess of their ratings in order to get more gain (as an amplifier) or for other purposes; you'll just burn them out faster. Thus, after establishing his credentials as a true amateur, he proceeded to discourage experimenting — the very essence of amateur radio — at least as far as the Audion was concerned.

The article included a picture of a DeForest RJ6 Receiving Set. It had four controls, and the Audion bulb



DeForest RJ-6 with front-mounted Audion

was mounted on the front panel on the *outside* of the cabinet. As the center of attention (after all, it was the single active element), this mounting scheme permitted the operator to watch it glow and adjust the filament visually.

Later in the same issue, a half-page ad from The Wireless Mfg. Co., DeForest's company, appeared for the first time. Big, bold letters announced "A New Receiving Set," a complete receiver based on the Audion. It claimed to be the lowest priced high quality set ever offered for sale. A full page ad by DeForest Radio Telephone and Telegraph Co. of NYC also appears in the same issue. Their RJ8 model sold for $25 and the RJ9 for $14,[6] both without a B battery (batteries not included!). The main improvement was the replacement of the high voltage stepswitch selector with a potentiometer, an improvement called for in the previous month's article. Two months later, Cole wrote a short follow-up article, "An Audion Hint," in which he described how to make a high value resistor with paper, pencil line and

(continued on page 6)

(continued from page 5)

rubber block, to serve as a high-resistance leak between plate and grid to prevent temporary "paralyzing" of the Audion due to static discharge at the antenna.

Picking up where Cole and Tuska had left off, Paul Godley of the R.C.A. wrote the first in-depth article about circuit design with the Audion, being one of the first to explore its use on short wavelengths. Filling nearly eight pages, Godley methodically presented receiving circuits of increasing complexity, ranging from the one-tube simple regenerative detector up to a four-tube receiver that employed three steps of audio amplification and interstage transformers — ignoring with gusto Cole's admonition against using the Audion for anything other than detection.

Godley would later play an important role in the development of the short waves and equipment for using them.

▫▭▫▭▫ **de W2PA**

Footnotes:

1. C. Tuska, "The Oscillating Audion," *QST*, Jan 1916, 3. Interestingly, when he referred to frequency, he didn't use the phrase "cycles per second" but simply "a frequency of 100,000 per second."
2. Editorial, *QST*, March 1916, 57.
3. A. B. Cole, "Practical Pointers on the Audion," *QST*, March 1916, 41.
4. This is reminiscent of troubleshooting charts in manuals today that begin by asking if the unit is plugged in and the power is turned on, because many times it isn't.
5. Roughly $530 and $300, respectively, in 2012
6. P. F. Godley, "Applications of the Audion," *QST*, August 1916, 193.

[Editor's note: The author, Chris Codella, W2PA, maintains a web site full of interesting stories about the development and evolution of radio communication. This is the eleventh in a series of articles about the earliest days of radio history. The stories are reprinted here with permission of the author. Be sure to visit Ham Radio History for some fascinating reading.]

(Next issue: The Relay's the Thing)

(Are you enjoying this series? Please let us know. Send your comments to tchamnews@gmail.com.)

Got My License, Now What? Etiquette & Operating Practices

As VEs we have individuals who, after passing their Technician exam ask questions about radios, antennas, repeaters, and nets. They are mostly seeking technical info. Seldom do we get asked about etiquette and operating best practices.

Etiquette can be contagious. Being courteous is important. As hams we do not own a particular frequency or repeater channel. As hams we share the spectrum.

In school we were taught to listen, but how often do we see that disregarded on the ham bands. My Elmer always said to ask if the frequency is in use before calling CQ.

Ever listen to a repeater net and hear the net control operator say "please use phonetics when giving your call sign." The net control may restate the request for call sign phonetics several times, but invariably someone will still use alphabetic letters. We know our call signs and can recite them in our sleep, but that does not mean others have the same familiarity. Many hams may think using a repeater guarantees Q5 copy and alphabetic letters will do. If only that was so.

The net control operator's job is multifold. Run the net and request participants to identify themselves with a phonetic call sign and name. Next listen to their call sign/name and write it down or type it into a computer logging application. Using phonetics and speaking clearly and slowly will make the net control operator's job easier and much less stressful. We are taught to use standard phonetics when giving our call sign over the air. Use of non-standard or slang phonetics should be avoided.

So how and where does a new ham learn good operating procedures. As experienced hams we need make it part and parcel of our activities to educate new and younger hams.

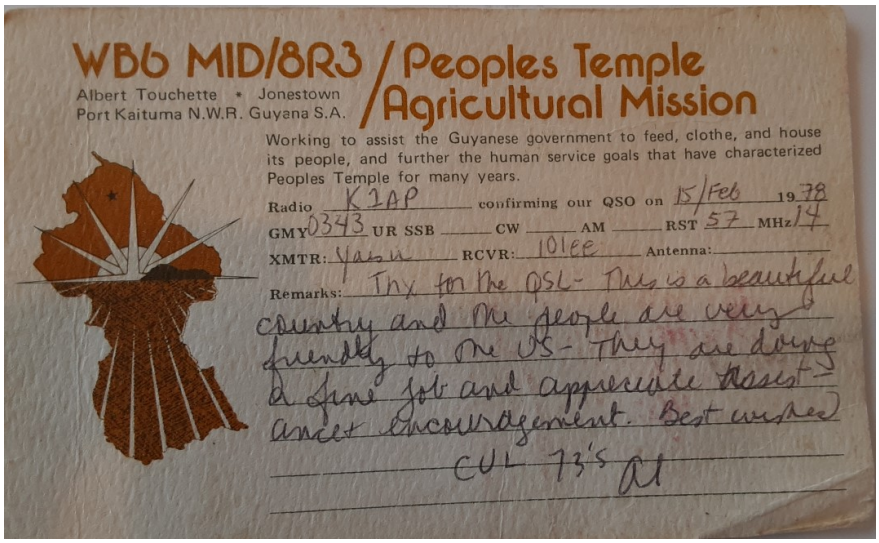
The ARRL website has an excellent PDF that every ham should read: Ethics and Operating Procedures for the Radio Amateur. Check it out.

QSL Card from Jonestown, Guyana

Once in a while a QSL card comes along that has some significance beyond just a confirmation of a 20-meter contact. Such was the case recently at a meeting of the local HF & DX Interest Group where Ed, K1AP shared a fascinating QSL card received in 1978 from Albert, WB6MID/8R3, a ham residing at the Jonestown Peoples Temple in Guyana, South America. (For those readers not familiar, the Jonestown Peoples Temple was a cult ruled by the reverend Jim Jones. A short history of the cult is provided in the article below.)

Jonestown's primary communication with the outside world was through ham radio. While some communications were purely on a hobby level, leader Jones also used ham radio for business purposes, frequently running afoul of the FCC.

What makes this card especially interesting is that Albert, WB6MID was one of 900+ cult members who committed suicide by drinking poisoned punch on orders from Jones after temple security staff murdered U.S. Congressman Leo Ryan and three others who visited Guyana to investigate the temple.



Here's a transcript of the remarks on the back of the card, *"Tnx for the QSL - This is a beautiful country and the people are very friendly to the US - They are doing a fine job and appreciate radio - and encouragement. Best wishes CUL 73's Al"*

To learn more about ham radio at the Peoples Temple click here.

About the Peoples Temple in Jonestown, Guyana

On November 18, 1978 over 900 members of the Jonestown Peoples Temple committed mass suicide by drinking a poisoned punch. The temple started in Indiana in the 1950s. Jim Jones was the founder. Jones moved the temple to California in the 1960s. In the 1970s, due to negative press coverage Jones moved over 1,000 members of his Peoples Temple to Guyana, South America, where he promised them a utopian community.

Initially, temple members worked hard to meet Jones' vision of utopia. After a while Jones, with his mental health in deep decline and addicted to drugs, demanded almost absolute compliance to his authority. Armed temple guards patrolled Jonestown continually. No one was allowed to leave. Leo Ryan, a California U.S. Congressman learned of this and made a decision to travel to Jonestown with a delegation of newspaper reporters, photographers, and staff to investigate.

(continued on page 8)

Jonestown Peoples Temple, Guyana

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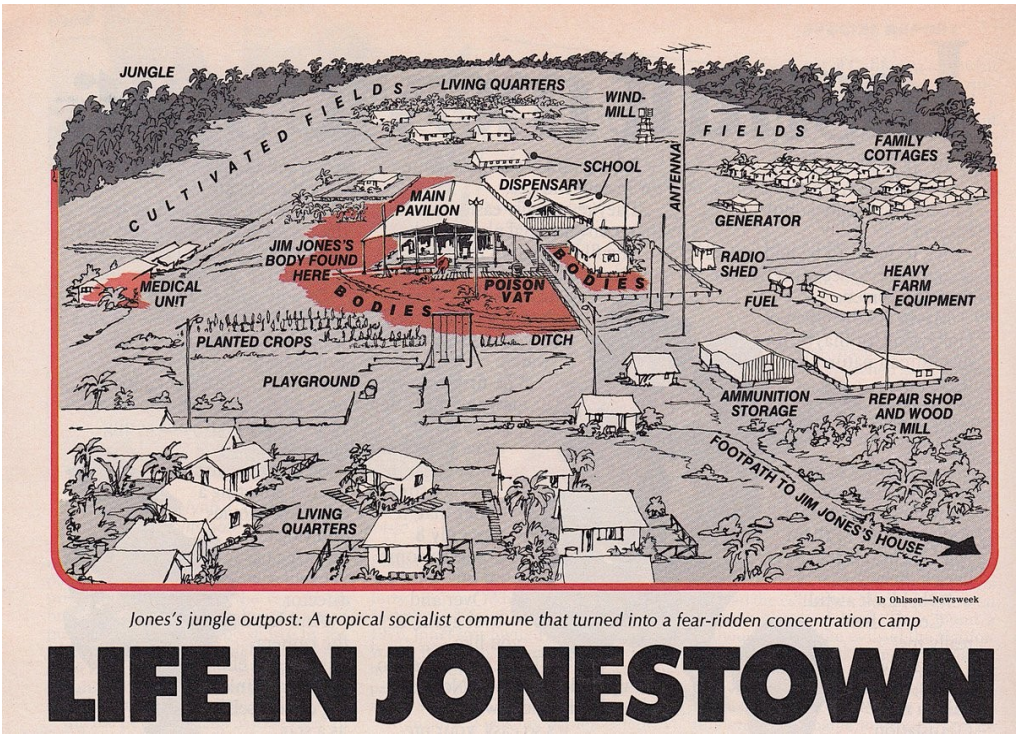
Arriving on November 17th, the Congressman and his delegation were warmly welcomed by Jones. That night some temple members requested Ryan's help to leave the cult.

On the morning of November 18, 1978 Ryan and members of his delegation were waiting to depart at a nearby airstrip when temple guards sent by Jones murdered the congressman and 4 members of his delegation. After the murders, Jones ordered his cult members to drink the poisoned punch. Jones also died that day.



Jones's jungle outpost: A tropical socialist commune that turned into a fear-ridden concentration camp

LIFE IN JONESTOWN

Hurricane Ian Damages WRMI

I'm sure everyone is keenly aware over the massive damage Hurricane Ian caused in many communities along the southwest coast of Florida. But are you aware of the extensive damage suffered by one of Treasure Coast amateur radio's close friends, WRMI radio.

For those not familiar, WRMI is the largest privately owned commercial shortwave station in the Western Hemisphere. Broadcasting from Okeechobee County, WRMI's 14 transmitters and 23 antennas beam programming around the globe.

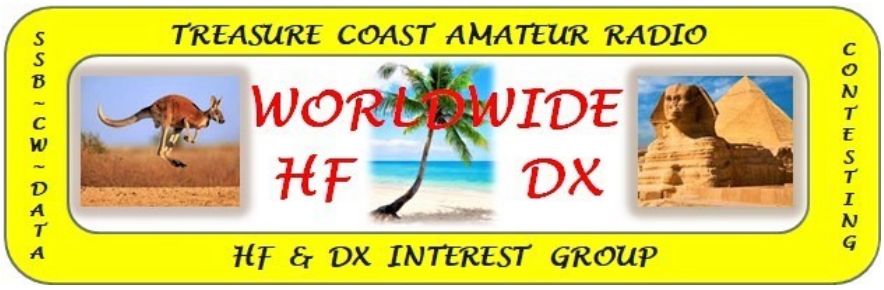
Numerous wooden poles snapped

Ian's heavy rain and 100 mile per hour winds caused extensive damage to the station's antenna farm, essentially knocking WRMI off the air. The pictures nearby show some of the damage.

Supports for beam aimed toward Africa destroyed

The good news is that recovery is under way. Recovery progress can be followed on WRMI's Facebook page: https://facebook.com/wrmiradio.

(editor's note: A GoFundMe page has been established to support WRMI's recovery. If you are able, please consider supporting the rebuilding effort.)



HF & DX Group Notes

The group held their monthly breakfast meeting on October 14, 2022. Participating were:

Dick - K4INJ
Ron - W9GOL
Bruce - W8HW
Bill - KI4FSI
Ed - K1AP
Bob - W4RJP
Bob - AI4RB

All enjoyed a hearty breakfast while sharing stories about recent on-air activities. Logs were shared and favorite QSL cards were passed around for the group to admire. Upcoming DXpeditions and other HF opportunities were discussed.

So what are you waiting for? New to HF, or a seasoned DX operator - it doesn't matter. All are welcome. This is a casual group. There are no dues. All you need do is show up.

November Meeting

Interested in learning more about DXing and HF radio? The consider participating in our meetings. The group meets on the second Friday of the month.

The next breakfast meeting will be held on Friday, November 11, 2022 at 9:00 AM at the Bob Evans restaurant, 1830 SW Fountainview Blvd, St. Lucie West.

Meetings are informal. The group does not have a set agenda. Participants enjoy a good meal, while discussing topics of interest to HF operators, such as on-air activities, logs, upcoming DXpeditions and just about anything else of interest to the HF operator or DXer.

Bring your questions. Bring your logs. Bring your favorite QSL cards. And bring a friend.

(Note: You will be responsible for purchasing your own breakfast.)

Short Takes

Projects for the Builder
Harry's Homebrew Homepage

A Guide for New Techs
Welcome to Amateur Radio for Newcomers

Modular Tool Simulates SDR Client
Ham Cockpit

Collect and Decode GPS Data
DIY your GPS tracker

Digital Mode Interface
USB Rig Interface

Grounding Tips
Practical Amateur Radio Grounding

All About CHIRP
Programming your radio using open source software

All About Echolink
Echolink Introduction

Current VHF Conditions (Use Zoom (+) on Map)
VHF Propagation Map

A Primer on JS8 and JS8CALL
JS8Call Introduction

Short Slide Show Explaining ADS-B
Automatic Dependent Surveillance – Broadcast (ADS-B) for Tracking Planes Via Radio

Everything You Ever Wanted to Know about Repeaters
Repeater Builder

Email & Chat Groups
(Note: some groups may require registration.)

PSK31 User Group
070club.groups.io

Info for IC-7000 owners
ic7000@groups.io

Yaesu FT-857 Discussion Group
FT-857@groups.io

See an interesting web site or group? Tell us about it. Send link to tchamnews@ gmail.com

The Frugal Ham Radio Operator

Computers became an integral part of our ham radio world decades ago. Early adopters used Commodore, Atari, and TI computers and software such as Kantronics to operate modes heretofore not previously available with a computer. It seemed almost overnight hams abandoned their old mechanical technology in favor of computers and software.

WSJT-X, a digital soundcard mode (DSM) application uses a computer and a soundcard interface. In case you have not noticed, WSJT-X has changed the face of ham radio forever. In addition to WSJT-X, computer logging programs (there are nearly 80 available) are playing an increasing role in our shacks.

So you would think with all the hard and soft technology available, why wouldn't we need powerful and fast computers in our shack? Maybe, but I am not totally convinced, at least yet.

When I became interested in FT-8 I investigated what type of computer would be needed. The application documentation said a 1.5 GHz or faster CPU and 200 MB of available memory, but added that faster machines were better. The WSJT version available at the time also said it would run on VISTA O/S. That did not sound too bad. I had an old VISTA system in the closet and decided to try it.

Initially, I was going to build the soundcard interface, but in the end I bought a Signalink USB. Configuring the program turned out to be a snap on the VISTA and soon I was receiving and transmitting FT-8/FT-4.

When a new version of WSJT-X became available I wanted to try it but found that VISTA had been dropped as a supported operating system. So I went hunting for another computer. I contemplated buying a new desktop, but that would be going against my frugal ways. At the Melbourne Hamfest I saw just what I needed, a Dell 3010 *i*3 SFF for $25. Too steep for me. Eventually it went home for $12.50.

So what did I get for my meager price? Turned out a lot, but not everything. When I got it home and opened the case, the memory and hard drive were missing, but everything else was there. Luckily, I had memory and a SATA hard drive with Windows 7 Pro on it from a dead desktop long since discarded.

The Dell 3010 serves well for WSJT-X and has plenty of power for my other ham apps. If I should need Windows 10 in the future, upgrading is very simple.

The moral of my story is that not so new computers still have plenty of life. They also don't break a ham's piggy bank.

73, The Frugal Ham

Amateur Radio Emergency Service® (ARES)

ARES members are licensed amateurs who volunteer with local emergency management for communications duty when disaster strikes. All licensed amateurs are eligible for membership in ARES.

At a recent ARES meeting, Paul W4ISZ, SLC EC gave a presentation on Hurricane IAN that was so devastating to SW Florida.

Surprisingly, the communications infrastructure fared better than anyone might have guessed. Some ARES emergency communicators deployed, but because communications were quickly brought back on line, their deployment were substantially shorter than in past events.

As shelter communications become more reliable, it may mean that the ARES role will change. Pre-deploying ARES communicators before the storm could change to post storm deployment. Many communicators prefer this, as it allows them to make sure their families and property are safe during an event. Secondly, if communications stay up, ARES may be better tasked to report conditions in the areas where they live and assist local first responders and CERT in those areas.

While this is not our traditional role, it may better serve overall local emergency management efforts. Is your ARES group considering this revised role? Tell us: tchamnews@gmail.com

ARES Emergency Coordinators (EC)

Indian River County
Bud Holman, WA4ASJ

Martin County
Brian H. Gibson, KN4YWW

St Lucie County
Paul Horner, W4ISZ

Okeechobee County
Jack Schwartz, KM4CRA

Get involved and volunteer. Be a part of your county ARES team.

Upcoming Hamfests

FLORIDA

11/26/2022
Palm Beach Co. Ham Radio Festival
Palms West Amateur Radio Club
http://www.palmswestradio.org

12/03/2022
Silver Springs Hamfest
Silver Springs Radio Club
First Christian Church
1908 E. Fort King St
Ocala, Fl
http://k4gso.us

12/09/2022 - 12/10/2022
Tampa Bay Hamfest
ARRL W. Central Convention
Florida Gulf Coast Amateur Radio Council
Plant City, FL
https://fgcarc.org/

VERO BEACH ARC'S TREASURE COAST HAMFEST

December 3, 2022 8am to 4pm

Indian River County Fair Grounds, 7955 58th Ave, Vero Beach, FL 32967.

GENERAL ADMISSION
Tickets at the Gate: $5—Purchase Drawing Tickets: *$1 each—One prize ticket included with gate admission

TABLES AND TAILGATING
Indoor Tailgating $15 (Includes Table & 2 Chairs)
Indoor Tailgating with Power $20 (Includes Table & 2 Chairs, Limited Availability)
Pavilion Tailgating: $10 (Includes Table & 2 Chairs)
Pavilion Tailgating with Power $15 (limited Availability)
Parking Lot Tailgating $5 (No Table or Chairs)

PRIZE DRAWINGS
Top of each hour starting at 9am (8 opportunities to win) - Last drawing at 4pm

FORUMS (Indoor Building) - 8:45am, 11am, 12Noon, 2:15pm, 3:15pm

VE LICENSE TESTING (Indoor Building) - 10am - Please bring ID

https://www.treasurecoasthamfest.com/

EmComm Training Organization (ETO) -Semi-annual Drill

The EmComm Training Organization (ETO) has announced the date of the November Semi-annual Drill -- November 12, 2022. The upcoming semi-annual drill is open to all participants who have, or would like to build, skills for digital radio messaging, such as sending attached forms or photos. This is essential for emergency communications for any served agency, whether local government, FEMA, or any NGO, including Amateur Radio Emergency Service (ARES) groups and the Radio Operators of Canada (RAC) Auxiliary Communications Service. The ETO believes this common pathway approach to communications fosters the interoperability that is essential for responding to a national or regional disaster.

The organization recognizes the varied levels of skill with Winlink. Thus, simple and introductory tasks have been designed with a progression to more complicated messaging, ranging from use of Telnet, to VHF gateway messaging and finally to national "peer-to-peer" digital communication on high frequency (HF) bands without the use of the internet infrastructure. International as well as domestic participants are welcomed to join by visiting the ETO website.

More than 2,000 participants are expected. The scenario is an area-wide natural disaster affecting most communities in North America. The next few weeks of Winlink Thursday exercises will be opportune for those who wish to participate in the larger semi-annual drill. It is anticipated that all participants will be mapped if the tasks are completed appropriately, and an "honor roll" of competent participants will be published on the website for those who wish to deploy and become operational.

Welcome to the Treasure Coast Ham News
Monthly Meetings, Nets, and Events Calendar

If you know of an event, net, or meeting and think it would be of interest to our Treasure Coast Hams, please let us know. As with anything new, you can help us make the calendar better. Send your event announcements to tchamnews@gmail.com.

November 2022

October

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

December

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1 **IRC ARES Net-7:30pm** 145.130(-) (107.2) **FPARC R/T Net-8pm** 147.35(+) (107.2) **D-Star Net-8:30pm** 444.500(+5) Port B	2 **SLC ARES Net-7:30pm** 147.240(+) (107.2) or Winlink Checkin sent to W4ISZ **SLC ARES WinLink** Wednesday's	3 **Slow CW Net-6:30pm** (on hiatus, need a Net Op) **PSLARA R/T Net-7:30pm** 146.995(-) (107.2)	4	5
6 **TC R/T Net-8pm** 146.775(-) (107.2) **SKYWARN Net-9pm** 146.775(-) (107.2)	7 **Slow CW Net-6:30pm** (on hiatus, need a Net Op) **IRC Emer. Net-8pm** 146.775(-) (107.2) **MCARA R/T Net-8pm** 145.500(-) (107.2) **OARC Club Net-8pm** 147.195(-) (100.0)	8 **IRC ARES Net-7:30pm** 145.130(-) (107.2) **FPARC R/T Net-8pm** 147.35(+) (107.2) **D-Star Net-8:30pm** 444.500(+5) Port B **OARC ARES Net-8pm** 147.195(-) (100.0)	9 **SLC ARES WinLink** Wednesday's	10 **Slow CW Net-6:30pm** (on hiatus, need a Net Op) **PSLARA R/T Net-7:30pm** 146.995(-) (107.2) **VBARC Mtg-7:30pm** 4225 43rd Av Vero Bch	11 **VETERAN'S DAY**	12 **Stuart Air Show** Nov 10-13, 2022 **MCARA** Special Event at air show
13 **TC R/T Net-8pm** 146.775(-) (107.2) **SKYWARN Net-9pm** 146.775(-) (107.2)	14 **PSLARA Board Mtg** (via Zoom) **IRC Emer. Net-8pm** 146.775(-) (107.2) **MCARA R/T Net-8pm** 145.500(-) (107.2) **OARC Club Net-8pm** 147.195(-) (100.0)	15 **IRC ARES Net-7:30pm** 145.130(-) (107.2) **FPARC R/T Net-8pm** 147.35(+) (107.2) **D-Star Net-8:30pm** 444.500(+5) Port B	16 **FPARC Mtg-7:30pm** Indian Rive State College Bldg R, Rm 124 3209 Virginia Av, Ft Pierce **PSLARA Meeting** IRSC - Vet Resource Ctr 500 NW California Blvd. Port St Lucie	17 **Slow CW Net-6:30pm** (on hiatus, need a Net Op) **PSLARA R/T Net-7:30pm** 146.995(-) (107.2) **MCARA Mtg-7pm** 802 SE Monterey, Stuart	18	19 **Vero Beach ARC QRP Event** (See https://w4ot.webs.com/ for details)
20 **TC R/T Net-8pm** 146.775(-) (107.2) **SKYWARN Net-9pm** 146.775(-) (107.2)	21 **Slow CW Net-6:30pm** (on hiatus, need a Net Op) **IRC Emer. Net-8pm** 146.775(-) (107.2) **MCARA R/T Net-8pm** 145.500(-) (107.2) **OARC Club Net-8pm** 147.195(-) (100.0)	22 **IRC ARES Meeting** 145.130(-) (107.2) **FPARC R/T Net-8pm** 147.35(+) (107.2) **D-Star Net-8:30pm** 444.500(+5) Port B	23 **SLC ARES WinLink** Wednesday's	24 **THANKSGIVING** **Indian River Co. ARES** 4227 43rd Av Vero Bch **PSLARA R/T Net-7:30pm** 146.995(-) (107.2)	25	26 **Palm Beach Co. Ham Radio Festival** www.palmswestradio.org Albert Family Service Ctr 5841 Corporate Way West Palm Beach
27 **TC R/T Net-8pm** 146.775(-) (107.2) **SKYWARN Net-9pm** 146.775(-) (107.2)	28 **Slow CW Net-6:30pm** (on hiatus, need a Net Op) **IRC Emer. Net-8pm** 146.775(-) (107.2) **MCARA R/T Net-8pm** 145.500(-) (107.2) **OARC Club Net-8pm** 147.195(-) (100.0)	29 **IRC ARES Net-7:30pm** 145.130(-) (107.2) **FPARC R/T Net-8pm** 147.35(+) (107.2) **D-Star Net-8:30pm** 444.500(+5) Port B	30 **SLC ARES WinLink** Wednesday's	1	2	3
4	5	**TC**: Treasure Coast **IRC**: Indian River County **SLC**: St. Lucie County **PSLARA**: Port St. Lucie Amateur Radio Association (www.pslara.org) **FPARC**: Ft. Pierce Amateur Radio Club (https://fparc.org/) **MCARA**: Martin County Amateur Radio Association (https://mcaraweb.com/) **OARC**: Okeechobee County Amateur Radio Club **VBARC**: Vero Beach Amateur Radio Club (http://www.w4ot.com/)			**R/T**: Ragchew/Traders **Emer.**: Emergency		

Treasure Coast Ham Doctors

Colorful Confusion

FT8 is a fun operating mode and is especially easy for the beginning operator to learn. However, some aspects of it that can be confusing at times, especially to the beginner. Such is the case in this question from a new HF operator.

Question:

I'm just getting my feet wet with the FT8 and FT4. I use WSJT-X as my software interface. My problem is two fold: first, on each decoding cycle there are an overwhelming number of messages displayed; and second, the multitude of colors when CQ messages are displayed just adds to my confusion. Can you help me better understand what this all means?

Answer:

First the positive: You say you see an overwhelming number of messages decoded. That's a good thing. It means you have a good antenna and good reception.

Begin by adding a check mark to the ***CQ only*** box to lessen traffic displayed in the Band Activity box.

Now, let's talk about the colors. By default, CQ messages are displayed in a multitude of different colors depending on a number of checks the software makes against your WSJT-X log for each and every CQ message received.

For every CQ message the software will review your log and make a determination if the CQ under review is from: a new Continent, new CQ Zone, new ITU Zone, new DXCC Entity (country), new Grid or new Call. If all checks fail, it means the caller is already in your log in the current band.

WSJT does a top down check in roughly the order listed above. When it finds the first condition satisfied by the CQ under review it displays the CQ message in the color assigned to that decision.

Here's an easy way to simplify the learning curve. From the main WSJT screen select ***File-Settings***. Then select the ***Colors*** tab.

We suggest you remove both check marks from the New Continent, New CQ Zone, New ITU Zone, New Grid and CQ in Message check boxes.

Now the only CQ messages you will see in color will be from new DXCC entities and new grids within DXCC entities already in your log.

These small changes should make it easier for you to understand what is going on. Try it. You can add back additional checks as you become more comfortable with the software.

We hope these ideas help. *73, The Doctors*

Got a question for the doctors? We will try to help. Send your questions to: tchamnews@gmail.com.

HAM BOOTCAMP – GETTING STARTED WITH HAM RADIO

Registration is now open for Nashua Area Radio Society's Fall 2022 Ham Bootcamp.

The online event is scheduled for Saturday, **November 5, 2022, from 10:00 AM - 6:00 PM EDT**. There is no charge to attend the Ham Bootcamp.

Ham Bootcamp includes a series of online demonstrations and tutorials designed to help newly licensed Technician, General, and Extra class license holders get on the air and use their amateur radio license.

Bootcamp is also a great opportunity for prospective Hams who are interested in seeing what the hobby has to offer.

About Ham Bootcamp

Are you interested in learning more about the Ham Bootcamp program? Quite a few articles about Bootcamp are available. You can read them via this link. Also, check out the article about a recent Ham Bootcamp at the New England HamXposition.

From the weekly ***ARRL DX Bulletin*** and other sources. (DX bulletin archive)

DX OPPORTUNITIES

TOGO, 5V. Andy, KB9IJI is QRV as 5V7JA. Activity is on 20, 15, and 12 meters using mostly FT8. His length of stay is unknown. QSL to home call.

MALAWI, 7Q. Don, K6ZO is QRV as 7Q6M until November 29. Activity is on 160 to 6 meters. He plans to be active in the CQ World Wide DX SSB contest. QSL to home call.

DJIBOUTI, J2. Members of the Mediterraneo DX Club will be QRV as J28MD from October 29 to November 7. Activity will be on the HF bands, with a focus on the low and new bands, using CW, SSB, and various digital modes. QSL via IK2VUC.

ST. LUCIA, J6. Bill, K9HZ is QRV as J68HZ until November 5. Activity is on the HF bands. This includes being a Multi Op entry in the CQ World Wide DX SSB contest. QSL via LoTW.

PAPUA NEW GUINEA, P2. A large group of operators are QRV as P29RO from Loloata Island, IOTA OC-240, until November 10. Activity is on all bands and modes. QSL via DL4SVA.

MALI, TZ. Jeff, TZ4AM is QRV from Bamako and is active on 40 to 6 meters using CW and SSB. QSL via KX4R.

COCOS (KEELING) ISLANDS, VK9C. Operators VK6VY, VK6CQ, VK3QB and VK3HJ are QRV as VK9CM until November 3. QSL via EB7DX.

SAINT BARTHELEMY, FJ. SP9FIH, Janusz and SP9FUY will be operating as FJ/SP9FIH and FJ/SP9FUY from October 29 to November 14.

MOZAMBIQUE, C9. Jean-Louis, ZS6AAG is QRV as C96JLH from Nametil while working for Doctors Without Borders. Activity is in his spare time. He has been active on Satellite QO-100, but also on 20 meters using FT8. His length of stay is unknown. QSL to home call.

GUINEA BISSAU, J5. Carlos, CT2GQA is QRV as J5JUA and is active until the end of 2022. Activity is mostly using FT8, and as a mobile station. He may also use J5GQA. QSL to home call.

SINT MAARTEN, PJ7. Ed, N2HX is QRV as PJ7PL until December 9. Activity is holiday style on the HF bands using CW, SSB, RTTY, and FT8. QSL to home call.

EQUATORIAL GUINEA, 3C. Ersoy, TA2OM is now QRV as 3C3CA from Malabo, Bioko Island, IOTA AF-010. He is here for one to two months. Activity of late has been on the HF bands using FT8. QSL to home call.

LIBERIA, EL. Richmond, EL2BG is active most every day on 6 meters. He has HF capabilities as well. QSL direct to home call.

DX SPECIAL EVENT STATIONS

QATAR, A7. Special event stations A722FWC, A71FIFA, A72FIFA, A73FIFA, A74FIFA, A75FIFA, A76FIFA, A77FIFA, and A78FIFA are QRV from various locations in Qatar until December 18 during the FIFA Football World Championship. QSL via operators' instructions.

NEW ZEALAND, ZL. Members of the Whangarei Amateur Radio Club are QRV as ZL75WARC until December 31 from North Island, IOTA OC-036, to celebrate the club's 75th anniversary. QSL via operators' instructions.

INDONESIA, YB. Members of the ORARI Daerah Jawa Timur, Lokal Pasuruan are QRV with special call sign 8A1093PAS from Java Island, IOTA OC-021, to celebrate the 1093rd anniversary of the Pasuruan Regency. Activity is on various HF and VHF bands. QSL via bureau.

(Know of an upcoming DX station or Special Event? Send info to: tchamnews@gmail.com)

VETERAN'S DAY

Salute To Service
Nov 11, 0000-2300Z Bates City, MO. K0RWB. 14.250 14.260 14.270. QSL: R&y Booth, 7562 Copenhaver Rd, Bates City, MO 64011-8250

Nov 11, 1600-2130Z W5KID,Baton Rouge ARC. 7.040, 7.250, 14.040, 14.250. QSL: USS KIDD Amateur Radio Club, 305 S. River Rd, Baton Rouge, LA 70802. Operating aboard USS KIDD (DD-661) WW II Fletcher class destroyer. www.qrz.com/db/w5kid

Veterans Day (11/11/22) & USMC Birthday (11/10/1775) Commemoration Nov 12, 1700Z-2359Z NI6IW USS Midway (CV-41) Museum Ship. 14.320, 7.250, 14.070 PSK31. DSTAR on PAPA repeaters. QSL: USS Midway Museum COMEDTRA, 910 N Harbor Dr, San Diego, CA 92101. www.qrz.com/db/ni6iw

(From ARRL & other sources)

Spruce Goose 75th Anniversary of Flight

Oct 29-Nov 6, 1700Z-2359Z, W6HA/W6HA/7 Hughes & McMinnville ARCs. SSB/CW: 3.833, 7.233, 14.233, 21.333, 28.333. QSL: Brian Johnson, AB6UI, 5207 Lillian St, Torrance, CA 90503. 11/2/22 is the 75th Anniversary of the Flight of Hughes Hercules H-4 Flying Boat. W6HA: Culver City/Long Beach Harbor where the craft was built, assembled & flown. W6HA/7: McMinnville, Oregon where the aircraft is displayed in the Evergreen Aviation & Aerospace Museum. www.w6ha.org

Godzilla 68th Anniversary

Nov 3-Nov 13, 0000Z-2359Z, W9G Indiana Elmer Network. 14.074, 14.174, 7.074, 14.060. QSL: W9G C/O Wayne Michael, 1255 Weston Drive, Indianapolis, IN 46234. November 3rd is the 68th anniversary of Godzilla coming to the big screen in the Japanese film classic. Some QRPer's from Central Indiana will be operating Special Event Station W9G November 3rd to 13th, along with other operators in the 7th region. Modes to be used will be CW, SSB, & a few digital modes like PSK, RTTY & FT8. This is sponsored by the Indiana Elmer Network. QSL cards will be sent via EMAIL. indianaelmernetwork.us

Carrollton Festival at the Switchyard

Nov 5, 1500Z-2359Z, KB5A, Carrollton, TX. Metrocrest ARS. 14.235 Voice; 14.070 Digital; 7.155 Voice; 7.070 digital; 21.305 Voice. QSL. See website, for information. https://www.kb5a.org

Mill Mountain Star

Nov 6, 1400Z-2000Z, W4CA. Roanoke Valley ARC. 14.265, 7.265. QSL: Roanoke Valley ARC, P.O. Box 2002, Roanoke, VA 24009. Commemorating the Roanoke Star on Mill Mountain since Nov. 1949. "Star City of the South" to Roanoke, Virginia. Send SASE for QSL card. w4ca.com/special-events

Stuart Air Show

Nov 10-Nov 13, 1400Z-2200Z, N4A, Stuart, FL. Martin County ARES. 14.280, 21.280. QSL: MC ARES, P.O. Box 2769, Stuart, FL 34995. www.mcaraweb.com

Activation from the Strategic Air Command & Aerospace Museum

Nov 11, 1500Z-2200Z, K0AIR/K0GRL, Strategic Air Command Memorial ARC. CW: 7.112; SSB: 7.275 & 14.275; RTTY: 14.085. QSL: SACMARC K0AIR/K0GRL, 1413 Saint Joachin Ct., Bellevue, NE 68005-4937. www.sacmarc.org

Iron Mission Days

Nov 11-Nov 12, 1601Z-1601Z, N7U, Cedar City, UT. Rainbow Canyons ARC. 14.260, 7.040. Certificate: Richard Parker, 4410 Apple Blossom Ln., Cedar City, UT 84721. 171st anniversary first iron works in the Rocky Mountains. In conjunction with Frontier Homestead State Park & Museum. rrparker@netutah.com or www.rcarc.info

Franklin, NC ARC 50th Anniversary

Nov 12-Nov 26, 0500Z-2359Z, KF4RC, Franklin ARC, Inc. 14.275. QSL: Howard Estes, 505 North Sugar Creek Rd., Franklin, NC 28734. FARC will celebrate its 50th anniversary of being an ARRL affiliated club on November 18th with club members operating KF4RC from the 12th through the 26th. A special QSL card will be sent. SASE please. www.qrz.com/db/kf4rc

2022 Hammarlund Radio Hullabaloo

Nov 17-Nov 18, 1200Z-2359Z, W4H, Mars Hill, NC. High Appalachian Mountain ARS. 14.050, 14.240, 7.050, 7.210. QSL: HAMARS, P.O. Box 366, Mars Hill, NC 28754. Celebrating the 1950s/60s Hammarlund Radio factory, Mars Hill, NC. www.hamars.club

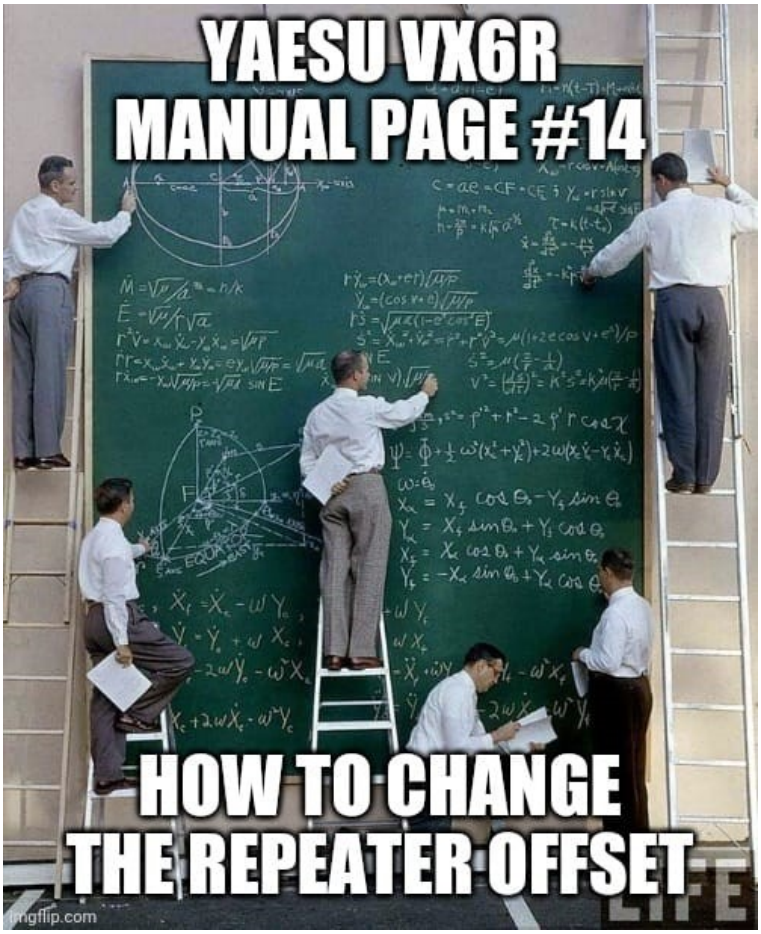
Western Mass Council BSA WHOA

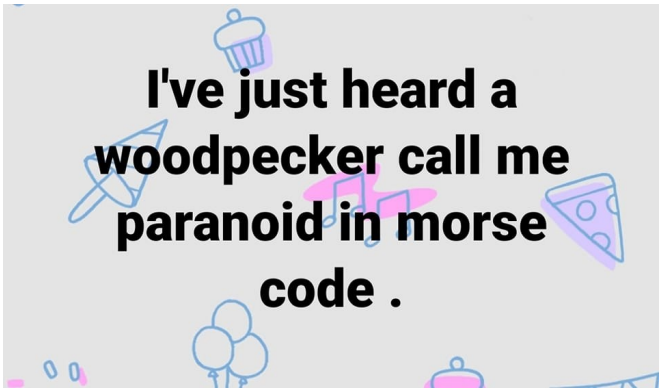
Nov 19, 1400Z-2000Z, W1M, Russell, MA. Western Mass Council Scouts BSA. 7.190, 10.115, 14.060, 14.290. QSL: Tom Barker, 329 Faraway Road, Whitefield, NH 03598. QSL available for a SASE.

First Pilgrim Landing at Plymouth

Nov 26-Nov 27, 1300Z-1900Z, N11X, Plymouth, MA. Whitman ARC. 3.860, 7.260, 14.260, 18.160. EchoLink: WA1NPO-R, IRLP:8691. Certificate: Whitman ARC, P.O. Box 48, Whitman, MA 02382. Times Are Daily. www.wa1npo.org

Ham Humor





You're asking, "Where are the cartoons by Dick Sylvan, W9CBT?" Well don't fret. They will be back in future issues of the newsletter. It's just that we've run out of Dick's color sketches and are waiting to receive more. Meanwhile, if you enjoy Dick's "amateurish" sense of humor, you can order his book, "***Hi Hi - A Collection of Ham Radio Cartoons***" from Lulu.com. Click here for a link to Dick's book.

TREASURE COAST HAM NEWS

The editors like to reserve the last few pages of ***Treasure Coast Ham News*** for you, the readers. With your help these pages will include:

For Sale Section – Have something to sell or trade? Send us a description and/or picture to have it listed in this section. Looking to buy something? Provide a description and we will print it.

QSL Card Section – Many hams enjoy viewing QSL cards, especially those with colorful pictures. Send us scans of your favorite QSL cards. Maybe the first card you ever received. Or perhaps your favorite card, or your personal card. We will include some in each issue as space permits.

The last few newsletter pages are yours. Help make them a success by submitting your photos, For Sale listings and QSL cards to tchamnews@gmail.com.

Want to be published? Treasure Coast Ham News invites you to write about your ham radio activities, kit building, DX operations, or any other amateur radio subject. You don't need to be a polished writer, or a writer at all for that matter. We will help you edit your work. While we can't pay for articles, you will receive a full byline. Please contact us at: tchamnews@gmail.com.

Area Club News

Martin County Amateur Radio Association

MCARA serves the Martin County, Fl amateur radio community and ARES. MCARA holds weekly Rag Chew nets, ARES nets and in-person / ZOOM meetings. Please click the ZOOM link on their web site.

The association sponsors the annual Stuart Hamfest. Did you attend this year at the Martin Co. Fairgrounds? Check out the pictures in the May, 2022 newsletter archived at pslara.org. Look in the Pub-Documents section.

Fort Pierce Amateur Radio Club

The club officers are: President - David, KG4ORQ, Vice-President - Kevin, W4KKW, Secretary - Pete, KD4SPW, and Treasurer - Kurt, W4KFH.

FPARC is a general purpose amateur radio club with a digital emphasis. The club meets on the 2nd Wednesday of the month on the Main Campus of Indian River State College in Fort Pierce. Watch for email announcements concerning upcoming meetings and events. Additional details are available on the club's web site.

Port St. Lucie Amateur Radio Association

The club officers are: President - Bob, AI4RB; Vice President - Scott, AI4TT; Secretary - Bruce, WA3RHW; Treasurer - Bob, W4RJP. Derek, KO4DAD, Greg, KB4VVE, and Steve, N4SGL were elected directors, recently.

The next PSLARA meeting is scheduled for November 16. Meeting location is the IRSC Veterans Resource Center, 500 NW California Blvd. Watch for meeting information and updates on the PSLARA website as we get closer to the meeting date. Come out to the meeting and support the club. And bring a friend. Visitors are always welcome at PSLARA meetings.

Club elections are this month (November). All Board positions are open. If you have an interest in serving on the Board please email info@pslara.com.

PSLARA owes a big THANK YOU to Steve, N4SGL and Derek, KO4DAD for volunteering to run the 2nd and 4th Thursday nets. THANKS GUYS!

Vero Beach Amateur Radio Club

VBARC was formed in November, 1961 with a small number of local hams. Today the club has over 100 members and encompasses all of Indian River County. Visit their web site to learn more about the club. Join them on the Treasure Coast Net, 7.153Mhz every morning at 8:00am.

The Vero Beach club has a robust membership of hams. If you are into QRP, they have an operating event See the club web site for details.

The 2022 Treasure Coast Hamfest is scheduled for December 3rd at the Indian River County Fairgrounds. Click here for information.

Okeechobee Amateur Radio Club

The club officers are: President/Treasurer - Mark, KF4EA; Vice President - Jack, KM4CRA; Secretary - Josh, K4JHI.

The Okeechobee Amateur Radio Club (OARC) is a general purpose amateur radio club. The club has been in existence over 30 years. For more information please contact Jack, KM4CRA. Club website: www.k4oke.com

OARC nets include: Club - Monday nights at 8.00pm on 147.195, pl.100.0. ARES - Second Tuesday of each month at 8.00pm on 147.195, pl 100.0.

Repeaters and Club Nets

Our area has a multitude of repeaters. Many clubs hold weekly rag chew nets. All known net schedules can be found on the TCHM calendar in this newsletter. Please get on the air and participate!

(Attention club officers: Please send an email announcing upcoming events and activities to: tchamnews@gmail.com. Send by the 20th of the month to be included in the next issue.)

EQUIPMENT BUY / SELL & HELP NEEDED

FOR SALE - contact Bruce at: wa3rhw@yahoo.com
Astron RS-20A 20 amp power supply. Very good to excellent condition. Very clean. $65.00
Elecraft P3 Panadapter. Very good to excellent condition. Very clean. Manual and cables. $600.00

* * * * * *

LOOKING TO BUY - Robert, KI6MXT is looking for a recharging cradle for a Yaesu FT-60R. If you have one for sale, please contact Robert at 321-370-5417.

* * * * * *

HELP NEEDED - to install a discrete screwdriver vertical in my backyard with underground coax at my residence.

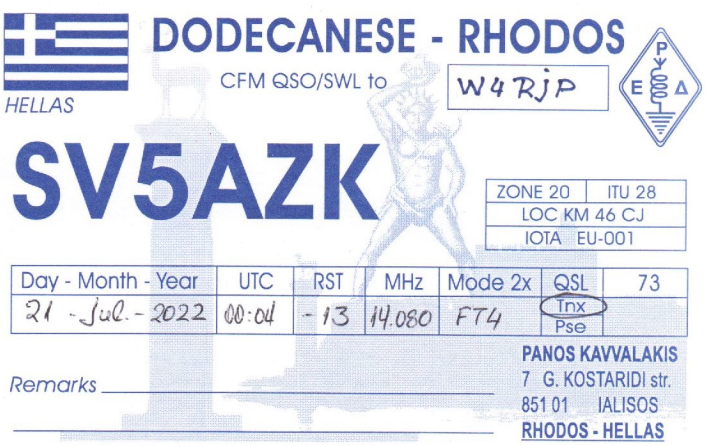
Contact Gus, NU4L, 772-263-0430; email gberges@me.com. Please advise if there is any cost and payment method. Thank you very much. Gus, NU4L.

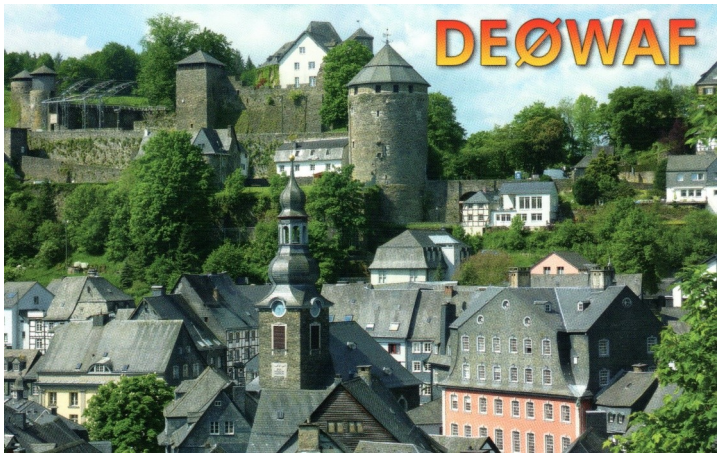
Do you have something to sell or trade? Or perhaps you need help with an antenna or equipment problem?

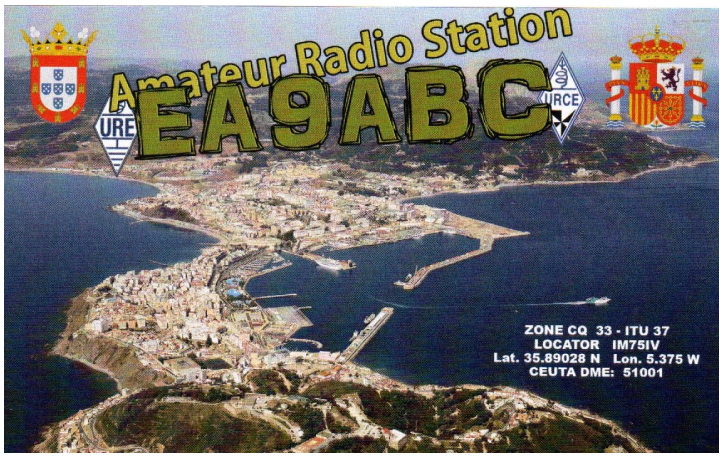
Drop us a line and we will include it our next issue.
Send your email to: tchamnews@gmail.com

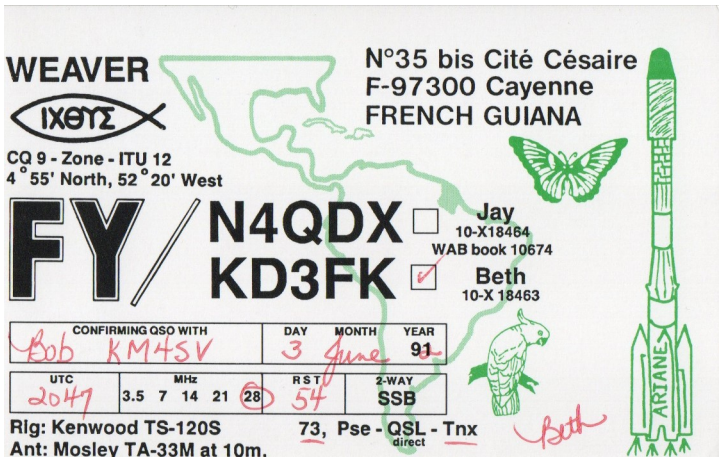
QSL Cards

TCHamNews enjoys showcasing QSL cards received by our local amateur radio community. If you have an interesting QSL card to share with your fellow hams, please send a scanned image (jpeg) to TCHamNews@gmail.com and we will include it in an upcoming issue. *(If you send us a paper card, we will scan it and send the original back to you.)*









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