



Q-Fiver

Official Newsletter of the OH-KY-IN Amateur Radio Society

In The News

*In Person Meetings,
Classes, and
Hamfests remain
cancelled, but don't
forget, you can
always*

GET ON THE AIR!!
GET ON THE AIR!!

(Are YOU(!) ZOOMing
into online meetings?)

In The News

**W4DXCC 16 DX
and Contest
Convention**

**September 25th and
26th, 2020, Pigeon
Forge, TN**

[Click Here for more
information!](#)

In The News

**Field Day 2020 –
Share Your Scores
Online**

With the rule change this
year we can work
individually but count our
collective scores for the
club!

[Click Here to find out how](#)

Calendar of Events for July 2020

Wed	July 01	TechTalk	Bob W8CRO
Tue	July 07	Club Meeting	(see announcement page 2)
Wed	July 08	TechTalk	Mike N8MRS
Sat	July 11	Brunch Bunch	Cancelled due to State Group Restrictions
Tue	July 14	Board of Directors meeting	(see announcement page 2)
Wed	July 15	TechTalk	Dale KC8HQS
Wed	July 22	TechTalk	George N3VQW
Wed	July 29	TechTalk	Rick KD4PYR

IMPORTANT JULY MEETING NEWS FROM THE PRESIDENT

Club Members and Friends,

Due to the present (and continuing!) situation, our July club meeting will be held on the usual date and time **online & by phone** via Zoom and it will also be a somewhat simplified format. Since there is no readily available means of having an anonymous voting process, we will continue to postpone voting on the bylaws changes until a more appropriate time.

Once again, we **will** be conducting an official business meeting, as the board has determined it is acceptable and appropriate so to do.

Zoom is what many schools are currently using now for remote classes and in my house, my wife has been using it to run her voice and piano studio for the last two weeks and we've used it to hold church services as well. I'll include some tips for success below. You do NOT need to create an account to use Zoom.

The board meeting will also occur on Zoom on its normal day and time (Tuesday, July 14th at 7:20 PM or close as possible to that time).

Both events (the club meeting and the board meeting) will use the same Zoom meeting code as last time. I hope to have the meetings opened to join by 7:20 PM each night if not earlier.

Here are some tips to ensure success for everyone:

- If you are not speaking, please keep your line muted. (For the actual club meeting, due to the potential number of participants, we may take an approach of muting all lines and requiring you to virtually raise your hand to speak. If we do so, instructions will be provided.)
- For best results, use a headset or earbuds or something similar. We've seen that iPads and higher end smart phones tend to work fine with just their built-in speakers as have newer computers, but older and/or lower end smart phones have created feedback problems. A headset or earbuds will solve that virtually 100% of the time.
- If possible, join from a computer or smartphone/tablet instead of dialing in by phone. This will allow you to see who has joined as well as view video if people are sharing their video. (For our visually challenged members, phone would be just fine and probably simpler.)
- If you are going to dial in by phone, be sure to use a phone that has free long distance. Otherwise, you will be paying for long distance charges for the duration of the call.

- If you dial in, I may call out the last four digits of your phone number and ask you to identify yourself so that we can change the display from your phone number to your callsign, to help everyone know who's on the call. If you are concerned about your phone number being displayed in the meeting, dial *67 before dialing the phone number. That will block caller ID from showing your phone number.

If you have any questions, please [e-mail me](#) and I'll try to answer them.

Here is the meeting info:

If you are using a **computer**, follow the meeting link below and you will be prompted to install and run the Zoom client.

If you are using a **smartphone or tablet**, install the "Zoom Cloud Meetings" app and then use the meeting ID below to join the meeting.

If you are dialing in **by phone** (use a phone with free long distance to avoid incurring charges), dial one of the phone numbers shown and then when prompted, key in the meeting ID followed by the # sign. When asked to enter your participant code, just hit the # again.

There are many, many tutorials online if you need help. Remember that you **DO NOT** need to create an account to use Zoom.

Here is the meeting link: <https://zoom.us/j/996062859>

Meeting ID: 996 062 859

Meeting Password for both club and board meetings: 146670

One tap mobile

+16465588656,,996062859# US (New York)

+13126266799,,996062859# US (Chicago)

Dial by your location

+1 646 558 8656 US (New York)

+1 312 626 6799 US (Chicago)

+1 301 715 8592 US

+1 346 248 7799 US (Houston)

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US

Meeting ID: **996 062 859** Password: **146670**

Thanks, Ryan AC8UJ, President

ARRL HEADLINE NEWS

Announcements

- International Lighthouse Lightship Weekend ([ILLW](#)) 2020 will take place over the August 22 - 23 weekend, a week later than usual to avoid conflicting with special events that may be on the air to commemorate the 75th anniversary of the cessation of World War II hostilities in the Pacific.
- Astronauts Chris Cassidy, KF5KDR, and Robert Behnken, KE5GGX, will conduct spacewalks on June 27 and July 1 outside the [International Space Station](#). The activities will begin the process of replacing batteries for one of the power channels on the orbiting laboratory.
- A June 13 SpaceX Falcon 9 vehicle launch placed another 58 Starlink satellites into orbit, bringing the total of the internet service satellites to 540. SpaceX has applied to the FCC to put upward of 30,000 Starlink spacecraft into orbit. "Starlink is designed to deliver high-speed broadband internet to locations where access has been unreliable, expensive, or completely unavailable," SpaceX said. "Private beta testing is expected to begin later this summer, followed by public beta testing, starting with higher latitudes."
- In a video, "The Last Active Morse Code Station in the US," Shannon Morse, KM6FPP, of Richmond, California, visits coast station KPH, which provided ship-to-shore communication using Morse code. Maritime Radio Historical Society ([MRHS](#)) volunteers have preserved and maintain the station and keep it on the air (along with the associated amateur station K6KPH). The COVID-19 pandemic has put KPH off the air "for the duration."



OH-KY-IN Repeaters

146.670 (-) Clifton 146.625 *(-) Edgewood 146.925 *(-) Delhi

443.7625 *(+5) Clifton [(*) Indicates Fusion Repeater]

A CTCSS (PL) tone of 123.0 Hz is required for access to all OH-KY-IN repeaters.

All repeaters also transmit a CTCSS (PL) tone of 123.0 Hz

APRS on 144.390 MHz K8SCH-10 Edgewood WIDEn

Packet 145.010 MHz K8SCH-7 Digipeater (offline)– **Looking for a new site – ideas?!**

FIELD DAY SCORING

Greetings all,

Field Day is almost [now!] upon us. As you know, OH-KY-IN is not officially operating an official Field Day event this year due to concerns over COVID-19. However, you can still be involved.

The ARRL modified the Field Day rules this year to allow Class D stations to work all other class stations, as opposed to only working Class A, B, C, E and F in years past. So go ahead and work from your home station as a Class D. Or disconnect from the grid and operate on generators, batteries, or solar cells as Class E. Or grab your gear and head out to a park and operate Class B (this is good practice for working POTA - Parks On The Air with both OSPOT and KYPOTA coming up later this summer). Consult the official Field Day rules for more information.

The ARRL made another rule change. By submitting your entry with a Club or Group Name, your score can be aggregated together with other entries for said club or group. To add your entry to OH-KY-IN, just put "OH-KY-IN AMATEUR RADIO SOCIETY" in the Club or Group Name field for your entry. This section is at the very top of the entry packet or the Field Day entry website (using the website will get you 50 bonus points).

You can also post your scores real time to OH-KY-IN if you are using N3FJP with the following instructions. You can also keep track of how the club is doing by going to <http://scores.ohkyin.org/> and watch the QSOs pileup live. Please note that posting via N3FJP will NOT submit them to the ARRL; you must still submit your entry with the Club or Group Name field with the following: "OH-KY-IN AMATEUR RADIO SOCIETY".

Good luck, have fun, and 73!

Cesi KD8OQB

TechTalk is back home and doing well!

The TechTalk net has moved back home to the 146.670 (-) PL 123 repeater.

In the several weeks that the net has been back on 67 it has been running about 20-25 check-ins and has been having a lot of participation from those check-ins. In fact, one night the net had four different questions asked and several announcements were made. Now that is how I remember TechTalk of a lot of years ago!! Let's keep it up.

Bring your questions of technical, procedural, or operational nature to the net and the net participants will do the best they can to get you an answer. If you have any announcements to share be sure to bring those to TechTalk as well.

If you don't have a question for the net be sure to check in anyway, you just might have the answer for someone else's question. After any questions or announcements are made, the Amateur Radio Newslines and Amateur News Weekly amateur radio news reports are played.

You do not have to be an OH-KY-IN member to join us on TechTalk, everyone is welcome to participate.

The TechTalk net is held every Wednesday evening at 9pm.

73, Bruce N8BV

TechTalk Net Manager

Tips and Techniques – from H. Ward Silver

PORTABLE POWER FOR HAM RADIOS

What are some options are out there?

- **Lead-acid storage:** Large and heavy but these batteries can supply a lot of power. When fully charged, they can run a QRP transceiver for an entire weekend.
- **Lead-acid gel-cells:** Available in a wide range of sizes, these are still heavy but smaller than car or tractor batteries; can be trickle-charged.
- **Li-ion:** Multi-cell battery packs are fairly lightweight and can be charged quickly; good for QRP operations; must have a Li-ion charger.
- **Li-iron-phosphate (LFP):** Better performance than Li-ion and constant voltage output, but expensive; must have an LFP charger.
- **Solar panels:** Bulky at the size needed to run a radio directly; can be combined with a battery pack and charger; combination panel-charger-battery units available.

2020 Committee Chairs and Appointments

Technical Operations Group
 ARPSC Representative
 Volunteer Examiners
 QCEN Representative
 Membership
 Fundraising
 Education
 Repeater Control Ops Mgr.
 PIO
 Librarian
 Digital Group
 Q-Fiver Editor
 Field Day
 Historian
 Fox Hunters
 Equipment Mgr.
 WebMaster
 Silent Key
 Tech Talk Net Mgr.
 K8SCH QSL Mgr.
 TV/RFI
 HamFest

Gary Coffey KB8MYC
 Jerry Shipp W1SCR
 Brian DeYoung K4BRI
 Pat Maley KD8PAT
 Nathan Ciufu KA3MTT
 Bruce Vanselow N8BV
 Michael Niehaus KD8ZLB
 Bruce Vanselow N8BV
 (Position Open)
 Justin Moore KE8COY
 Jerry Shipp W1SCR
 Robert Gulley K4PKM
 Eric Neiheisel N8YC
 Dale Vanselow KC8HQS
 Dick Arnett WB4SUV
 (position open)
 George Gardei N3VQW
 Bryan Hoffman KC8EGV
 Bruce Vanselow N8BV
 Bob Frey WA6EZV
 Dick Arnett WB4SUV
 Gary Coffey KB8MYC

TechTalk Operators for July 2020

1st Wednesday	Bob W8CRO
2nd Wednesday	Mike N8MRS
3rd Wednesday	Dale KC8HQS
4th Wednesday	George N3VQW
5th Wednesday	Rick KD4PYR



A REMINDER FROM JUNE: NEW E-MAIL LIST THROUGH GROUPS.IO

Greetings to everyone who is subscribed to the OH-KY-IN Amateur Radio Society e-mail list server! I hope this email finds you all healthy!

I'm sending this email to let everyone know that over the next several weeks, OH-KY-IN ARS will be converting our e-mail list server over to a platform called Groups.io

This will end up being a very easy process for everyone, and there will be a LOT of nice enhancements over our old list server. As an example, if you are a current paid member of OH-KY-IN, you will finally have access to an up to date club roster, photos section that you can look through and upload your own photos, a club activity calendar, and I even have reminders set up to automatically send via e-mail about our meetings, nets, and other activities.

I will have the Groups.io website send an invitation to everyone's email address who is a paid member of the club. Once you receive the email, there is an "Accept Invitation" button you can click on. Once you click that button in the e-mail, all you have to do is create an account, and you're set to go! Once you are logged in, feel free to roam around the files and use them as necessary. This will be a PRIVATE group only open to paid members and I will be able to update your membership at any moment. As a paid member, please remember anything in the Files section is only meant for your personal use. If you want to send an e-mail to the group, it's very simple! You simply send an e-mail to: OHKYIN@groups.io

There will be a second Groups.io set up for OH-KY-IN ARS for those of you who are NOT members, but like to get information regarding our activities and other communications. Unlike the private group, this will be a PUBLIC group which you do not have to be a club member to join. Many of the same e-mails will be sent to the public group, but you will not have access to a Files section. If you want to send an email to the public section, you simply send an email to: OHKYINPublic@groups.io

During the transition, if anyone has any questions or needs help with anything, please don't hesitate to reach out to me and I'll be sure to get you set up!

Best 73,

Nathan Ciufu, KA3MTT

OH-KY-IN ARS Membership Chairman

THE RADIOPHONIC LABORATORY: THE SPHERICAL VORTICES OF DELIA DERBYSHIRE Pt. 1

by Justin Patrick Moore, KE8COY

Just as Daphne Oram was stepping out of the BBC Radiophonic Workshop, another lady was stepping in. Though Delia Derbyshire may not be a household name, the sound of her music is certainly embedded in the brains of several generations of Science Fiction fans, as she realized the iconic score for the Doctor Who theme song in the Workshop studios. With the original Doctor Who series lasting for twenty-six continuous seasons from 1963 to 1989, the song has touched the lives of millions of people around the world. I give credit to my own love of electronic music to my being a fan of Doctor Who since I was ten years old.

I remember the first time I watched, catching a rerun of an episode late one Saturday night on the local PBS station, while my parents and grandparents visited at my great-grandparents house and all those adults were talking and playing scrabble around the kitchen table. The show was like a revelation. It was the fifth Doctor, played by Peter Davison. Not only was the storyline a subject of fascination, but the sounds, and the way they melded with the visuals transported my imagination. I became a fan at that moment and ever since Doctor Who has been my favorite TV show. Though my first love remains the original series, and *my* first Doctor, the first few seasons of the 2005's Doctor Who revival exceeded my expectations and I continue to tune in.

There is one area where I am a Doctor Who purist though. That is where the theme song is concerned. Each new regeneration of the travelling Time Lord saw the producers of the show making slight adjustments to the song. Eventually it came to a point where, though the theme was the same, they did not use the original version as recorded, and essentially, created by Delia Derbyshire. It's quite a shame because there was magic in that mix.

The original tune was written by Ron Grainer, but he didn't have anything to do with the production, how it was made. The project for realizing it and arranging it for electronics was given to Delia.

But how did she end up at the BBC in the first place?

She had been a bright girl, learning to read and write at an early age, and started training on the piano at age eight, but like many of us who have grown up as part of the working or middle-class it was radio that opened up her world. Delia said, "the radio was my education". Being involved with radio also ended up being her fate. After graduating from Barr's Hill Grammar School in 1956 she was accepted by both Oxord and Cambridge. This was "quite something for a working class girl in the 'fifties, where only one in



10 were female,” she said. She ended up going to Girton College, Cambridge, because of a mathematics scholarship she had received.

Despite some success with the mathematical theory of electricity, she claimed to have not done so well in school at the time. So she switched her focus to include music, specializing in medieval and modern music history, while graduating with a BA in mathematics. She also received a diploma, or what the British call a licentiate, from the Royal Academy of Music in the study of pianoforte.

While in school she had developed an interest in the musical possibilities of everyday objects. This would later find its full expression in the *musique concrete* she would make and master at the BBC. While still in school in 1958 she also had the opportunity to visit the World’s Fair in Brussels where she experienced Edgard Varèse's *Poème Électronique* installed in Le Corbusier's pavilion. Varèse's work was a touchstone for the new generation of electronic musicians as Daphne had also experienced this work at the Fair.

Upon finishing her schooling, she approached the university career office for advice. The pieces had been arranged on the board of her life, but she needed help with making her next move. She told the counselor she had an interest in “sound, music and acoustics, to which they recommended a career in either deaf aids or depth sounding.” With their advice wanting, she made a move on her own and tried to get a gig at Decca Records, but was told no. No women were employed in the recording studio of the label.

In lieu of a job with Decca she scored a position with the UN in Geneva as a piano and math teacher to the children of various consuls and diplomats. Later she worked as an aid to Gerald G. Gross, who worked in diplomatic functions and oversaw conferences for the International Telecommunications Union. Eventually she moved back home to Coventry where she taught at a primary school. This was followed by a brief stint in the promotions department at Boosey & Hawkes, a music publisher.



The following year in 1960 she stepped into the BBC as trainee assistant studio manager. Her first job there was working on the Record Review, a program where hoity-toity critics gave their highfalutin opinions on classical music recordings. Just like Daphne Oram, she had a well-developed sense of where to drop the needle on any given platter. Delia said "some people thought I had a kind of second sight. One of the music critics would say, ‘I don't know where it is, but it's where the

trombones come in' and I'd hold it up to the light and see the trombones and put the needle down exactly where it was. And they thought it was magic."

Of this time period she further elaborated, "It was very exciting, especially on the music shows. All the records had to be spun in by hand and split-second timing was essential. When tapes came in, I used to mark them with yellow markers to ensure that one followed another, and that there were no embarrassing gaps in between,"

Not long after she had started working on the Record Review she heard about the Sound-House Daphne Oram had helped create, the Radiophonic Workshop, and she knew she wanted to be in the Sound-House, developing and working in the new field of electronic and electro-acoustic music, exploring the widest parameters of musical research.

When she approached the heads of Central Programme Operation with her wish to work in the Radiophonic Workshop, they were baffled and puzzled. The Workshop wasn't a place most people sought out to work in, it was a place people were assigned, no doubt with grumbling resentment. It was a place only the eccentric, or visionary, would choose to go.

"I had done some composing, but I had a running battle with the B.B.C. to let me specialise in this field. Eventually they gave me three months to prove I was good -- and I'm still here," she noted in a newspaper article.

In 1962 Delia got her wish and was assigned to the Radiophonic Workshop in Maida Vale. For the next decade and a year she gave the BBC a herculean effort in the creation of sound and music for about 200 radio and television shows.

"I have to sense the mood which the producer is trying to achieve. He may want something abstract, or it may be a piece with changing moods which have to correspond to specific cues in either dialogue or graphic designs."

Doctor Who

The next year was the year Doctor Who came to broadcast. The theme song was one of the first on television to be made entirely with electronics.

Brian Hodgson, who worked with Delia at the Workshop, and also produced a lot of incidental music for Doctor Who, commented on her work on the theme. "It was a world without synthesisers, samplers and multi-track tape recorders; Delia, assisted by her engineer Dick Mills, had to create each sound from scratch. She used concrete sources and sine- and square-wave oscillators, tuning the results, filtering and treating, cutting so that the joins were seamless, combining sound on individual tape recorders, re-recording the results, and repeating the process, over and over again."

Interviewed about the theme on a 1964 episode of the radio show *Information Please* she said, "the music was constructed note by note without the use of any live instrumentalists at all," and went on to demonstrate the use of various oscillators, including the workshop's famous wobbulator, which she said was "simply an oscillator which wobbles".

It was a laborious process and the Radiophonic Workshop had become the perfect laboratory for the great works of sonic separation, granulation, elaboration and final distillation of the musical substance.

To create the Doctor Who theme each note was individually recorded, cut, spliced. Some of the base materials used for the process included a single plucked string, white noise, and the harmonic waveforms of test-tone oscillators. The bass line was the single plucked string. The pattern for the bass was made by splicing it, in versions that had been sped up or slowed down to create the perfect pitch, over and over again. The swoop of the lower bass layer was made through careful and calculated tweaking of the oscillators pitch. The melody was played on a keyboard attached to a rack of oscillators while the bubbling hiss and fry of some ethereal vapor was made by filtering white noise and then arranging it in time on tape. Some of the notes were also redubbed at varying volumes to create the necessary dynamics heard in the song.

With all the basic material in the laboratory now prepared, ready with the proper pitch and volume, it all needed to be conjoined. To do this the first step involved taking a line of music—the bass, melody, or vaporous bubbles of white noise- and trimming each note to length by cutting the tape and sticking them all together in the right order. Next further rectifications were required, distilling these elements down further and further until a final mix was completed.

At the time, there were no multitrack tape machines to ease the process. A method to mix it all together had to be improvised. Each separate portion of the song on individual reels of tape was played on separate tape machines with the outputs mixed together. Getting it all to synchronize was just one of the obstacles, as not all tape players play back at exactly the same speed, and not all of them stay in sync once started. A number of submixes, or distillations, were created and these in turn synced together before the music could finally be said to be finished.

When Ron Grainer first heard the Delias realization of his score, he was more than delighted and said "Did I really write this?"

Delia replied, "Most of it."

Grainer made a valiant effort to give Delia credit as a co-composer of the theme. His attempt was blocked by the bureaucrats at the BBC who had the official policy of keeping the members of the Workshop anonymous and only giving credit to the group as a whole. Delia was not credited on screen for her work until the 50th anniversary special of Doctor Who.

Even so, her tenure in the Workshop was off to a grand start and she continued to produce music for radio, television and beyond.

Between 1964-65 Delia got to expand her palette of sound across the canvas of radio in collaboration with playwright Barry Bermange in a series of four pieces called *Inventions for Radio*. These pieces were broadcast on the BBC's Third Programme and involved interviews



with people on the street on such heavy subjects as dreams and the existence of God, collaged against a background of electronic soundscapes and strange noises. It was a new form of documentary radio art.

Working with Bermange, the voices of the interviewees were edited in a non-linear way, creating insightful juxtapositions. For the episode on dreams she used one of her favorite musical sources, a green metal lightbulb shade being struck. The sound, as always, was later manipulated in the studio.

And even though her work for the Workshop continued to remain anonymous, her reputation as a musician and electronic composer started to spread to some of the senior officials at the communications behemoth. Martin Esslin, the Head of Radio Drama, sent a memo to Desmond Briscoe, then head of the Workshop, noting his regret that Delia Derbyshire and her co-worker John Harrison were not able to receive credit for the work they had on a production of “*The Tower*”.

He wrote, “I have just been listening to the playback of the completed version of ‘*The Tower*’ and should like to express my deep appreciation for the excellent work done on this production by Delia Derbyshire and John Harrison. This play set them an extremely difficult task and they rose to the challenge with a degree of imaginative intuition and technical mastery which deserves the highest admiration and which will inevitably earn a lion's share of any success the production may eventually achieve. I only wish that it were possible for the names of contributors of this calibre to be mentioned in the credits in the *Radio Times* and on the air. But failing this I should like to register the fact that I regard their contribution to this production as being at least of equal importance to that of the producer himself.”

Sources:

The BBC Radiophonic Workshop: The First 25 Years by Desmond Briscoe

Special Sound: The Creation and Legacy of the BBC Radiophonic Workshop by Louis Neibur, Oxford, 2010

<https://www.bbc.com/historyofthebbc/100-voices/pioneering-women/women-of-the-workshop/delia-derbyshire>

<http://www.delia-derbyshire.org/>

<https://www.bbc.co.uk/programmes/profiles/51LC2shThjnCNR8dd4z2SRQ/delia-derbyshire>

<https://wikidelia.net/>

https://wikidelia.net/wiki/Morse_code_musician

(Stay Tuned: Part 2 will follow in next month's newsletter!)

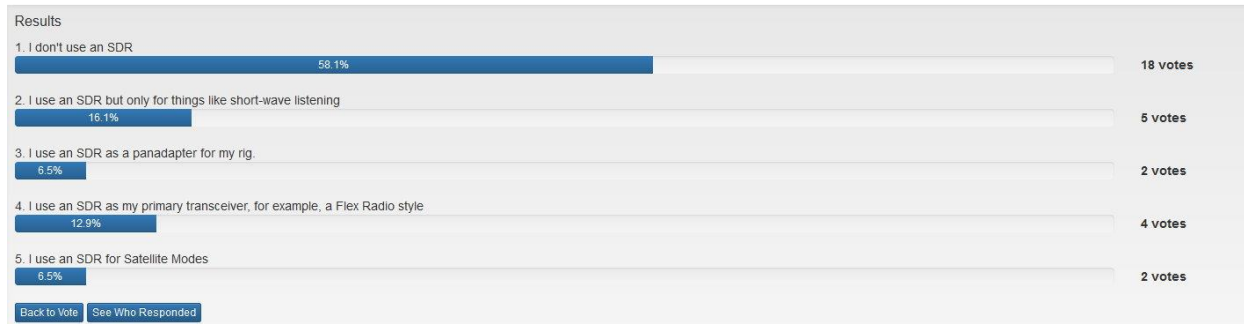
OHKYIN.GROUPS.IO POLLS

In addition to messaging and file storage, there is a "Polls" section on the OHKYIN Groups site which can be accessed by selecting Hashtags, Polls, and then selecting the poll in which you are interested. (There may be a faster way there, but that is how I got there! ed.)

Here is a screen grab of the current poll:

The screenshot shows the OHKYIN.GROUPS.IO website interface. The top navigation bar includes 'Groups IO', 'Your Groups', and a search bar. The left sidebar contains navigation options: Home, Subscription, Messages (highlighted), Hashtags, New Topic, New Poll, Chats, Members, Directory, Calendar, Photos, and Files. The main content area shows a poll titled 'SDR Use' with a '#poll' tag. The poll was created by user 'Cesi KD8OOB' with the text: 'I really wanted an option for working satellites! :)'. Below the poll, there are options to 'Reply', 'Like', and 'More'. A user 'Nathan Ciufu, KA3MTT' has responded with a poll question: 'Just a quick poll to: 1) Test the New Poll use on the Groups.io 2) See how many members use SDR's (Software Defined Receiver)'. The poll options are: 1. I don't use an SDR, 2. I use an SDR but only for things like short-wave listening (checked), 3. I use an SDR as a panadapter for my rig, 4. I use an SDR as my primary transceiver, for example, a Flex Radio style, 5. I use an SDR for Satellite Modes. At the bottom of the poll, there are buttons for 'Change Vote' and 'See Results'.

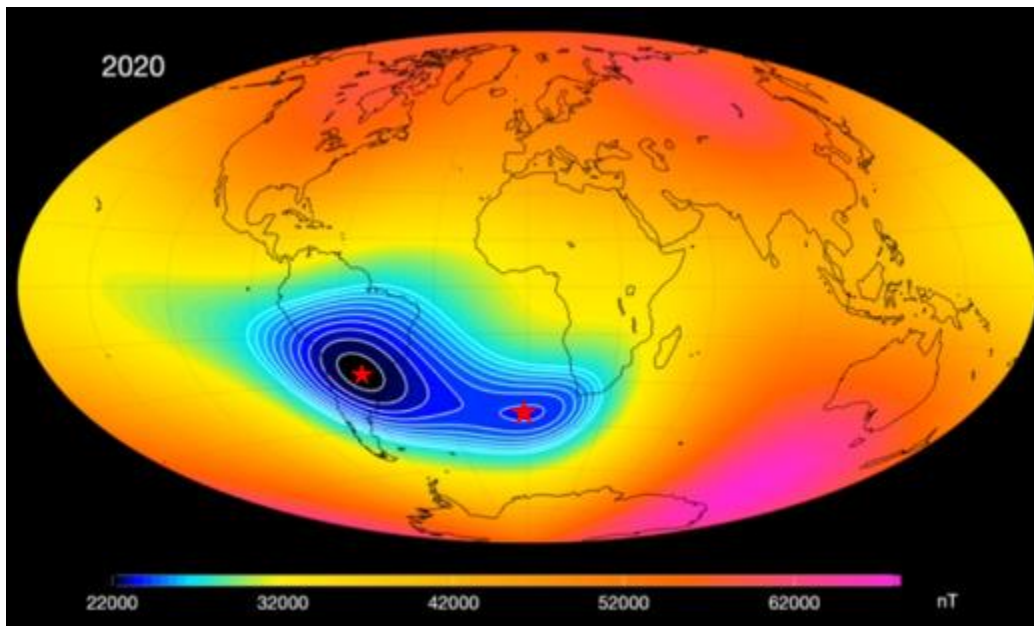
And the Results:



Keep an eye out for polls and help by participating in them!

SOLAR WEATHER AND PROPAGATION NEWS

IS THE SOUTH ATLANTIC ANOMALY SPLITTING IN TWO? New data from Europe's [Swarm satellites](#) show something strange is afoot in Earth's magnetic field. The South Atlantic Anomaly might be splitting in two. "A new, eastern minimum of the South Atlantic Anomaly has appeared over the last decade," says Jürgen Matzka, from the German Research Center for Geosciences. "In recent years it has been developing vigorously."



Above: Development of the South Atlantic Anomaly from 2014 to 2020. Credit: ESA/Swarm. [\[more\]](#)

The South Atlantic Anomaly is a weak spot in Earth's magnetic field centered roughly on the Atlantic side of South America. Discovered in 1958, it has been growing and shifting for decades. The latest data from Swarm show a new weak spot forming just off the southern tip of Africa.

"We are very lucky to have the Swarm satellites in orbit to investigate this development," says Matzka.

Launched in November 2013, Swarm is a constellation of 3 identical satellites flying in formation around Earth. They are equipped with magnetometers, star trackers and other instruments, which allow the satellites to make exquisitely detailed 3D measurements of Earth's magnetic field. The possible splitting of the Anomaly is just one of the mission's [many significant findings](#).

Researchers have long known that Earth's magnetic field is weakening. Over the last 200 years, the globally averaged magnetic field has lost around 9% of its strength, with the South Atlantic Anomaly leading the way. From 1970 to 2020, the minimum field strength in this area dropped from 24,000 nanoteslas to 22,000.

As the South Atlantic Anomaly has weakened, the inner Van Allen Belt has spilled into it, allowing energetic particles (especially protons) to get within 200 km of Earth's surface. This poses little threat to people on the ground, but spacecraft aren't so lucky. When satellites fly through the Anomaly, they are exposed to relatively strong radiation. Onboard computers may reboot and digital cameras can be fogged by streaks of charged particles flying through them. The ISS has extra shielding to deal with this problem, and the Hubble Space Telescope doesn't even bother to make observations when it is inside the Anomaly.

If the South Atlantic Anomaly eventually splits into two cells, satellite mission planners will have to contend with a new zone of high radiation. The splitting is more than just a nuisance, however. It could offer clues to the origin of the Anomaly itself. Earth's magnetic field is created by currents of superheated liquid iron swirling ~3000 km beneath our feet. Changes "up here" can tell researchers what's going on "down there."

Stay tuned for updates as the Swarm mission continues.

(published in Spaceweather.com)

SCIENTISTS EXPLAIN MAGNETIC POLE'S WANDERINGS

European scientists think they can now describe with confidence what's driving the drift of the North Magnetic Pole.

It's shifted in recent years away from Canada towards Siberia.

And this rapid movement has required more frequent updates to navigation systems, including those that operate the mapping functions in smartphones.

A team, led from Leeds University, says the behaviour is explained by the competition of two magnetic "blobs" on the edge of the Earth's outer core.

Changes in the flow of molten material in the planet's interior have altered the strength of the above regions of negative magnetic flux.

"This change in the pattern of flow has weakened the patch under Canada and ever so slightly increased the strength of the patch under Siberia," explained Dr Phil Livermore.



*Artwork: Earth's magnetic field is generated in its fluid outer core
(Image: ESA)*

"This is why the North Pole has left its historic position over the Canadian Arctic and crossed over the International Date Line. Northern Russia is winning the 'tug of war', if you like," he told BBC News.

Earth has three poles at the top of the planet. A geographic pole which is where the planet's rotation axis intersects the surface. The geomagnetic pole is the location which best fits a classic dipole (its position alters little). And then there is the North Magnetic, or dip, Pole, which is where field lines are perpendicular to the surface.

It is this third pole that has been doing all the movement.

When first identified by explorer James Clark Ross in the 1830s, it was in Canada's Nunavut territory.

Back then it didn't wander very far, very fast. But in the 1990s, it took off, racing to ever higher latitudes and crossing the date line in late 2017. In the process, it came to within just a few hundred kilometres of the geographic pole.

Using data from satellites that have measured the evolving shape of Earth's magnetic field over the past 20 years, Dr Livermore and colleagues have attempted to model the North Magnetic Pole's wanderings.

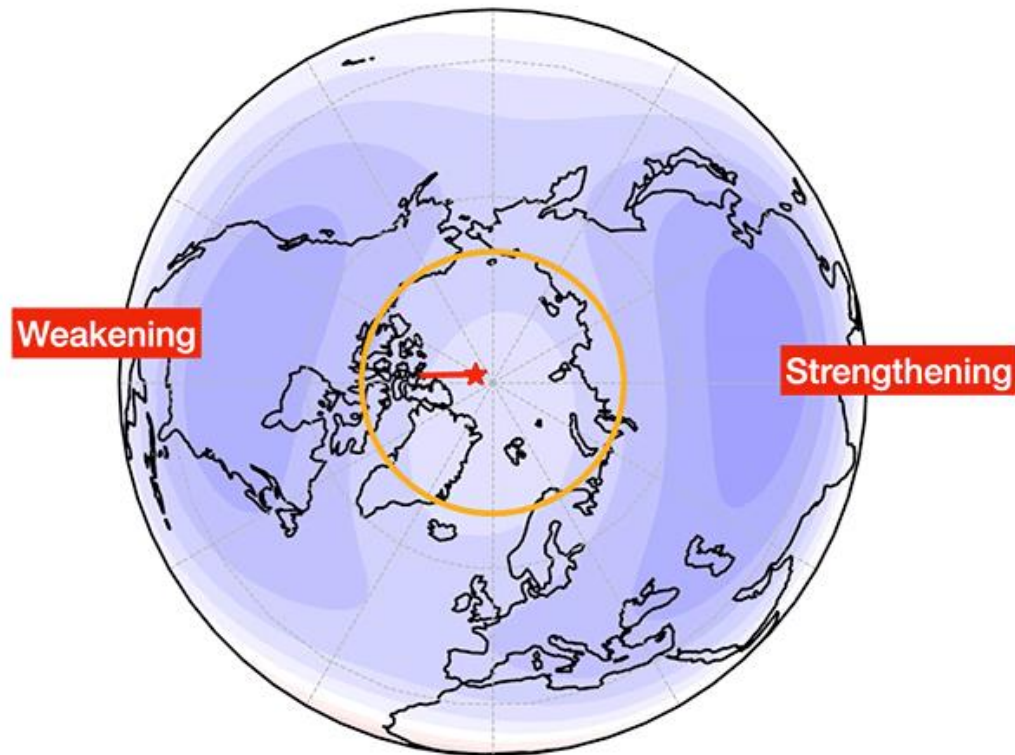


Image: Plivermore

Regions of negative magnetic flux have been in a "tug of war"

Two years ago when they first presented their ideas at the American Geophysical Union meeting in Washington DC, they suggested there might be a connection with a westward-accelerating jet of molten material in the outer core. But the models were a complex fit and the team has now revised its assessment to align with a different flow regime.

"The jet is tied to quite high northern latitudes and the alteration in the flow in the outer core that's responsible for the change in the position of the pole is actually further south," Dr Livermore said.

"There's also a timing issue. The jet acceleration occurs in the 2000s, whereas the pole acceleration begins in the 1990s."

The team's latest modelling indicates the pole will continue to move towards Russia but will in time begin to slow. At top speed, it's been making 50-60km a year.

"Whether or not it will move back again in the future is anyone's guess," the Leeds scientist told BBC News.

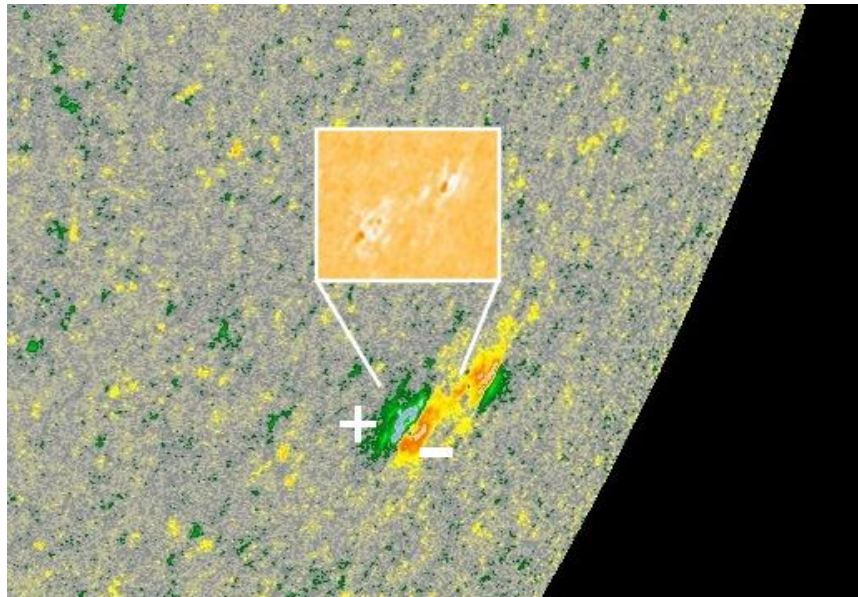
The pole's recent race across the top of the world prompted the US National Geophysical Data Center and the British Geological Survey to issue an early update to the World Magnetic Model last year.

This model is a representation of Earth's magnetic field across the entire globe. It is incorporated into all navigation devices, including modern smartphones, to correct for any local compass errors.

Dr Livermore and colleagues leaned heavily on the data acquired by the European Space Agency's Swarm satellites. The team has published its research in the journal Nature Geoscience.

Jonathan.Amos-INTERNET@bbc.co.uk

SOLAR CYCLE 25 SUNSPOT: A bipolar sunspot is emerging near the sun's southwestern limb, and it appears to be a member of new Solar Cycle 25. The sunspot is inset in this magnetic map of the sun's surface made June 28th by NASA's Solar Dynamics Observatory:



The sunspot's magnetic polarity (+/-) and high latitude (26S) identify it as a member of new Solar Cycle 25. If it survives another day, the sunspot will receive an official number (AR2766), making it the 10th numbered new-cycle sunspot so far this year. Ten sunspots is a lot during Solar Minimum. Their growing number is a sign that Solar Cycle 25 is gaining strength.

If you haven't already done so, now is the time to renew your membership to OH-KY-IN ARS or JOIN the club! We have made it very simple to do so. You can simply click on the following link –

<http://ohkyin.org/wp/membership-form/>

The above link will allow you to join or renew using ANY credit card with a secure website. You can also use a PayPal account if you would prefer using the same website.

If you would prefer to print an application and mail a check, you can contact me at [Nathan Ciufo, KA3MTT](mailto:Nathan.Ciufo@KA3MTT.com)

*If anyone has any questions concerning joining the club or renewing your membership, please let me know! Best 73, Nathan Ciufo, KA3MTT
OH-KY-IN ARS Membership Chairman*

RED, WHITE & AND BLUE ASH

*The 2020 Red White & Blue Ash event has officially been cancelled.
We'll be looking forward to working the event next year.
73, Bruce N8BV*

MARS Announces HF Skills Exercise

Members of the Military Auxiliary Radio System (MARS) will conduct an HF skills exercise July 20 – 24 to hone their operating skills and messaging-handling capabilities.

MARS members will be reaching out to the amateur radio community via the 60-meters Channel 1 Net (5330.5 kHz dial) twice a day, the SATERN HF net (14.265 MHz), and by contacting various stations via HFLink throughout the exercise.

MARS members will be requesting assistance with collecting county status information as well as airport weather information, called METARs. MARS members will also be passing ICS 213 messages to numerous Department of Defense (DoD), federal, and amateur radio addressees.

This exercise will be announced via WWV at 00:10 and via WWVH at 00:50 starting on or about July 13. WWV and WWVH listeners will be asked to take an online listener survey. This HF radio training event will not impact regular communications. — Thanks to Paul English, Chief, Army MARS

FOR DX'ERS AND CONTESTERS

Countdown to W4DXCC

September 25th and 26th, 2020, Pigeon Forge, TN

Hello from W4DXCC 16 DX and Contest Convention. This is our 16th year! The Mainstay Suites and Convention Center is open for business as of today May 8th and will be ready to host this year's W4DXCC DX and Contest Convention for 2020 September 25-26th.

Plan on attending today! The Website has been updated with the latest News. Be sure to SEE all those who attend last year in the picture gallery Here [2019 Photos](#)

Go Here for the W4DXCC website [W4DXCC](#)

Friday 25th is the Ham Radio Bootcamp where we do our best to provide the knowledge to New and Experienced Hams alike. If your new to some of the new digital modes like FT8-FT4 you won't want to miss Bootcamp.

Saturday 26th is the Main Convention where we have 6 presenters giving you the inside scoop on what is going on. Following each presentation, we have time for questions if you would like to know more.

We have all of the leading radio and equipment manufacturers setup in the lobby with the latest gear for you to twist the knobs or click the mice. More importantly you can have a one on one to ask questions about the gear with the company representative in a relaxed environment.

We have a fully operational Ham Shack setup where you can come learn hands on with an Elmer to show you the ropes and make QSO's in CW, Phone and different digital modes.

The Convention is a great place to meet with your friends. Coordinate with your friends to attend the convention and spend time with them reminiscing of the good old days.

We will have VE Testing on Saturday so get to studying for that test and also study for that Upgrade!

It is time to make your Hotel reservations for this year's convention. Online ticket ordering will open May 15th. Go here to the Website Hotel reservation page [Hotel Reservations](#)

The Convention admission includes Snacks and Drinks during Saturday's session and Lunch. Convention Registration is Open May 15th including Online Ticket Purchasing. There is an evening Banquet that you can attend. When you purchase your Convention tickets also buy the Banquet tickets, seating is limited for the Banquet.

You can make your ticket purchase any time after May 15th by going here [Online Ticket Purchase](#)

Check out the Website and learn about the W4DXCC DX and Contest Convention. Go Here [W4DXCC Convention](#)

Best 73 Dave Anderson, K4SV Convention leader Dave@w4dxcc.com

From Chris Thomas KD8YVF

*After careful consideration, **we have decided to cancel our in-person Paddlefest event for 2020** because we are unable to provide a safe and quality experience during the COVID-19 pandemic. While we'll miss seeing you at the river, we hope you'll join our virtual event, Paddle for a Purpose!*

Paddle for a Purpose lets you get out on your favorite local waterway for a nine-mile paddle (just like at Paddlefest!), all at once or in multiple trips. We hope you'll keep Paddlefest's community spirit alive by sharing your paddle on social media with the hashtag #PaddleForAPurpose and via the Paddlefest website. Stay tuned for more virtual fun to come!

As with Paddlefest, Paddle for a Purpose benefits Adventure Crew, which offers free outdoor recreation opportunities to city teens in 24 high schools in Cincinnati and Northern Kentucky.

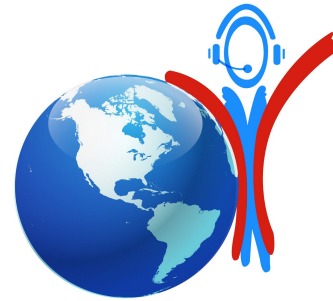
Visit our website (ohioriverpaddlefest.org) for more details and to sign up!

HEARD ON 20 METERS

"Yesterday, my XYL said she'd leave me if I didn't give up ham radio. Over."

It's a YOTA Summer!

Since Youth on the Air camp was postponed until 2021, we've added some BONUS events that you can do from home for 2020!



Virtual YOTA Day - Wednesday, June 24, 2020 2-8 pm EDT

Join us for a series of youth-led forums and some fun competitions that you can do from home, **even if you don't have a radio!** Youth who were selected to attend YOTA camp 2020 will be able to meet on Zoom for a day of learning and fun, and have a chance to win prizes! You're not one of those selected to attend the 2020 camp? NO PROBLEM. We will also stream the Zoom meeting on our YouTube channel so you can watch and follow along at home. Learn how to track down the location of a transmitter without leaving your chair, sharpen your contesting skills, and more!

Competition prizes are graciously donated by **Heil Sound**.
The grand prize is donated by **R&L Electronics**.



Special Event Station W8Y

During the week of June 21-26, when the camp was supposed to take place, we will have a special event station on the air! Youth who were selected to attend YOTA camp 2020 will take turns operating as W8Y throughout the week from the station of their choosing. Campers should sign up at YouthOnTheAir.org to be added to the schedule. Contact Marty, NN1C at special@youthontheair.org with questions. If you were not selected as a camper for 2020, be sure to work W8Y on the air!

Field Day W8Y Remote

We will operate Field Day from a remote station. Logging will be done by remote desktop. Youth who were selected to attend YOTA camp 2020 can sign up for a time slot on the remote station provided by Jay, K4ZLE. Sign up for times at YouthOnTheAir.org. If you have questions, contact Chris KD8YVJ, at fieldday@youthontheair.org.

Field Day Club Entry

If you choose to operate Field Day from your home station, you can add your score to a club for this year only. Enter "Youth on the Air" as the club name on your Field Day score entry. **This is for ALL hams who are age 25 and younger.**

FULLY REMOTE AMATEUR RADIO LICENSE EXAM ADMINISTRATION**I want to take an exam! How do I get started?**

The good news is there are exam sessions going on most days! The bad news is they are still a little slow and there aren't enough groups running them yet. You can look for sessions at <https://hamstudy.org/sessions> — make sure you read the instructions! — and contact the VE team linked on the page not HamStudy.org with any questions as HamStudy.org does not run the exam sessions!

As of yet there aren't a lot of sessions open, but we are doing our best.

For more information you can visit here:

<https://blog.hamstudy.org/2020/04/fully-remote-amateur-radio-license-exam-administration/>

(thanks to Andrew Stevens for sharing this with the club!)

**RADIO AMATEUR'S CALL FOR HELP RELAYED FROM
ACROSS THE ATLANTIC**







When Richard Tashner, N2EO, of Massapequa, New York, suffered a medical emergency on May 18, his DMR radio was closer than his phone. His call for help was answered by Maxis Johnston, GM0MRJ, who put out a call for "anyone in the states."

Kent County Amateur Radio Club member Ken Dix, KB2KBD, in Delaware heard the call on the local 146.91 MHz repeater, which was linked to the North American talk group. Dix called authorities in Tashner's vicinity, and help was dispatched.

Dix said the dispatcher in New York was able to hear part of the call and was amazed at how an amateur radio communication had gone from New York to Scotland to Delaware and then back to New York. The dispatcher expressed surprise at how quickly the information had been relayed across the Atlantic. The Delaware repeater, at the Delaware State Communications complex, is set on C4FM Fusion and linked to DMR on "America's Net."

— Thanks to the [ARES E-Letter](#) via Jerry Palmer, N3KRX

DX Spots (and Special Events) - July 2020 de KA3MTT

Sun	Mon	Tue	Wed	Thu	Fri	Sat
KG4MA - Guantanamo Bay Thru 7-15 		JW7QIA - Svalbard Thru 7-3 	1 EA6 - Balearic Is Thru 7-11 	2 YJ40IND - Vanuatu thru 7-31 	3 Mount Rushmore Independence Day celebration Jul 3-Jul 5, 1800Z-2359Z, W0I	4 Colonial Williamsburg Special Event Jul 4, 1400Z-2000Z, K4RC, Williamsburg, VA
5	6	7	8	9	10	11 Dalton Gang SES Jul 11-Jul 13, 1700Z-2359Z, W5D, Adair, OK. Mayes County Amateur Radio Club. 14.240 7.225 3.850
12 Iowa State Parks On-the-Air Centennial - Volga River Jul 12, 1500Z-1900Z, W00EL, Fayette, IA. Rural Iowa Amateur Radio Club. 14.240 7.240	13	14	15	16	17 South Carolina Peach Festival Jul 17-Jul 19, 0400Z-0400Z, W4W, Gaffney, SC	18 Red River Bridge War Special Event Jul 18-Jul 26, 0000Z-2359Z, W5I, Sherman, TX. Grayson County ARC. 4.250 7.250 14.040 7.04
19	20	21	22	23	24 HB0 - Liechtenstein Thru 7-26 	25 NSS 79th annual Convention Jul 25-Jul 31, 1800Z-1800Z, K8V, Elkins, WV. National Speleological Society. 14.285 14.050 7.19
26	27	28	29 5X1RI - Uganda Thru 8-15 	30	31 Sheboygan Brat Days Jul 31-Aug 2, 1700Z-0100Z, W9B, Sheboygan, WI. Sheboygan County Amateur Radio Club. 14.240 7.240	

Thanks to Nathan for his excellent and long-standing efforts on our behalf!

The Digital Group – On Hiatus!

Yep, like everything else, this meeting is in limbo until the all-clear is given by city officials to allow in-person meetings. Keep an eye on the E-mail subscriber list for more information! Hmm . . . might be a good time to practice Winlink Messaging and to make sure you are signed up for E-mail!

JULY 2020 BRUNCH BUNCH – WAITING TO BE SERVED!

***Due to the current restrictions associated with the coronavirus (COVID-19) the Brunch Bunch is suspended until further notice.
73, Bruce N8BV***

2020 HARVEST HOME FAIR IS CANCELLED - BACK IN 2021

ANOTHER EASY WAY TO HELP OUT THE CLUB: AMAZON SMILE

Good news! AmazonSmile is now available in the Amazon Shopping app on iOS and Android mobile phones.

AmazonSmile customers can now support OH-KY-in Amateur Radio Society Inc in the Amazon shopping app on iOS and Android mobile phones! Simply follow these instructions to turn on AmazonSmile and start generating donations.

- 1. Open the Amazon Shopping app on your device*
- 2. Go into the main menu of the Amazon Shopping app and tap into 'Settings'*
- 3. Tap 'AmazonSmile' and follow the on-screen instructions to complete the process*

If you do not have the latest version of the Amazon Shopping app, update your app. Click [here](#) for instructions.

The [Video](#) “What is IARU?” is now available on the International Amateur Radio Union (IARU) Region 2 website.

“This video explains the mission and roles of IARU to represent, develop, and defend frequencies for amateur radio around the world,” IARU Region 2 explains. “It also describes the regional organizations and the critical roles of its more than 160 member-societies.”

Technically Speaking

Gary Coffey, KB8MYC, Technical Committee

We've made it halfway through this crazy year, hope everyone is staying healthy and happy. We reported to the group last month on the hardline project at the 146.670 site. The hardline and accessories have been ordered and delivered to the site. Thanks to Bruce, N8BV and Dennis, KD8ILY for being on call to go to the site when the delivery driver called. WLWT is currently wrapping up the painting of the tower and we should be ready for installation once that is complete. The repeater is still in service so jump on and use it daily.

Our other two VHF repeaters are working as they should and some maintenance will be done through the summer months. Please, make use of them frequently.

Our repeaters are one of our greatest assets, use them often. 73!

OH-KY-IN Licensing Classes

Please Contact Mike KD8ZLB for future registration and class-specific information as it becomes available: kd8zlb@gmail.com

- All Spring Classes and Exams have been Cancelled due to virus concerns
- Keep an eye out for updates through the E-mail Reflector
- Fall Classes will be announced later this summer

IN THE NEWS FROM QRZ.COM

The Board of the Dayton Amateur Radio Association is very pleased to announce the appointment of a new Hamvention Chair and Assistant Chair for 2021.

The new General Chair is Rick Allnutt WS8G. Rick has been in Amateur Radio since 1982 and holds an extra class license. He has been involved as a Hamvention volunteer for the last decade. Rick is an avid CW operator, member of CW Ops, and occasional contester. He supports several amateur radio organizations as a life member. He was most recently the Assistant General Chair.

The new Assistant General Chair is Jim Storms AB8YK. Jim holds an extra class license. Currently an arrive team leader. He has served as a Past President, Vice President and Secretary of the SWODXA club. He has served DARA for the last two years as Vice President and Hamvention advance registration chair for three years. He is also a cofounder of the Dave Kalter Youth Dx Adventure and serves as one of the directors and team trip leader.

The DARA Board is very grateful to Jack Gerbs WB8SCT for his recent service to Hamvention and DARA. He has been very respected in his leadership of nearly 750 volunteers.

These changes go into effect July 1, 2020. Please join the DARA membership in congratulating

Rick and Jim.

-- Michael Kalter W8CI Official Spokesperson for Hamvention

FORMIGAS ISLETS ILHÉUS DAS FORMIGAS

JUNE 29, 2020

29 DE JUNHO DE 2020



The Natural Reserve of Formigas (translates as "Ants") Islets is located 33 nautical miles from the southeastern tip of São Miguel island and 20 nautical miles from the northeastern tip of Santa Maria island, constituting a remarkable natural resource and a real nest for many species with a total length of 52,393 ha.

Marco CU7BC, Bruno CS8ABG and Paulo CU2CO will be, in collaboration with the Portuguese Navy, on the air from 8am to 7pm UTC, June 29th, as CQ8F.

This is an extremely rare event given the difficulties and restrictions of and to access the islets.

IOTA: EU-003 WWFF: CUFF-0009 ARLHS: [AZO 001](#) PIP: AC-013 PFFP: FP-163

Possible frequencies:

Band	CW	Phone
80m	3.544	3.744
40m	7.024	7.144
20m	14.044	14.244
17m	18.084	18.144
15m	21.044	21.244
12m	24.894	24.944
10m	28.044	28.444

PROPOSED BYLAWS CHANGES/AMENDMENTS

At a future meeting of the OH-KY-IN membership, we will be holding a vote to approve replacing both our existing Constitution and our existing Bylaws with the following proposed single document (henceforth to be known as our Bylaws). We have learned that Ohio corporations should only have Articles of Incorporation and Bylaws, thus we are retiring our constitution to bring us in line with common practice and merging the two documents into a single document while incorporating some updates at the same time. There are no changes being proposed to our Articles of Incorporation at this time. They remain as filed and previously amended with the state of Ohio. The current Constitution and Bylaws are available on the club website under "About OH-KY-IN" and then "Constitution and By-laws" if you wish to compare the old with the proposed.

OH-KY-IN AMATEUR RADIO SOCIETY, INC. (the "Society") CODE OF REGULATIONS (also referred to as BYLAWS)

As amended at the _____, 2020 meeting of members.

ARTICLE I. MEMBERSHIP

A. Any person interested in Amateur Radio and who is in sympathy with the purposes of this Society may become a member upon completing an application for membership and payment of any applicable dues; however, an application for membership may be rejected, or the membership of any individual may be terminated, by the Board of Directors if in the opinion of the Board the prospective or continued membership of that individual is not in the best interests of the Society due to prior or continuing violation of F.C.C. rules, disruptive behavior, or other reasonable cause as determined by the Board, whose decisions shall be final.

B. The dues (which may vary depending on categories set by the Board) shall be determined by the Board of Directors from time to time, and shall be payable to the Treasurer during the month of January or at such other time as the Board of Directors may approve. Dues unpaid three months after the due date shall result in automatic termination of membership.

C. Any members qualifying for free membership under categories that may be established by the Board, shall have no voting rights.

ARTICLE II. BOARD OF DIRECTORS

A. Except where authority is otherwise designated under the law, the Articles of Incorporation or these Bylaws, authority over the affairs of this Society shall be exercised by or under the direction of the Board of Directors, which shall consist of three elected Directors serving staggered three-year terms, with one Director being elected each year; together with the four elected officers specified below and the immediate Past President of the Society who serve ex officio with vote. However, all members of the Board of Directors must be current members of the Society. The annual election of one Director shall be conducted along with the election of officers as provided below.

B. If any Board member dies, resigns, is removed, or becomes unable to serve, the vacancy for the unexpired term shall be filled by appointment of the remaining Board of Directors, even if the number remaining is less than otherwise required for a quorum.

C. Any Board member may be removed from office by majority vote of those members present at a regular or special meeting of the members, provided that notice of the proposed action has been given to the members as provided in Article V.D.

D. The Board shall schedule regular meetings to occur at least bi-monthly. The President, or in the absence of the President the Vice-President, may cancel a meeting if there is no business to conduct. Special meetings may be called by the President or by any three Board members with notice to the Board as provided in Article II.E. Four Board members shall form a quorum for any regular or special meeting of the Board of Directors, and the majority vote of Board members present shall be the action of the Board unless otherwise required by law or these Bylaws. Board members may not vote by proxy but may attend a meeting by telephone conference call, video call or other electronic means which allow all participating Board members to hear each other. The Board may also act by unanimous written consent, and email or other electronic communications may be accepted for that purpose.

E. Notice of regular or special Board meetings (other than regularly-scheduled meetings as established at the beginning of each year) shall be sent to each Board member not less than five days prior to such meeting either (1) by first class mail to his or her residence or place of business as listed in the Society's records or (2) by electronic mail to his or her e-mail address, if one has been furnished for that purpose to the Society. Such notice shall set forth the time and place of such meeting and shall be valid if sent as stated in the preceding sentence, whether or not actually received. Business to be transacted at any regular meeting of the Board shall not be limited to those matters set forth in the notice of meeting. Notice of any meeting of the Board may be waived by the execution of a written waiver of such notice, either before or after the holding of such meeting by any Board member. The attendance of any Board member at any meeting without protest at the commencement of the meeting shall be deemed to be a waiver of notice of the meeting.

F. Board meetings are open to members, so the date and location of Board meetings (other than confidential meetings as provided below) must be distributed to the membership in advance of each meeting. However, the Board may conduct a confidential special meeting or executive session at a regular meeting to discuss sensitive topics such as actual or potential litigation, contract negotiations, and other legal or personnel matters.

G. Board members (including current and former officers serving ex-officio) shall not receive any compensation for their service but shall be entitled to reimbursement of authorized expenditures made on behalf of the Society. The Society may purchase directors liability insurance or other reasonable and customary coverages for the benefit of the Directors.

ARTICLE III. OFFICERS AND COMMITTEES

A. The elective officers of this Society shall be a President, Vice President, Treasurer, and Secretary. These officers shall be elected annually at the December meeting by majority vote of the members present and voting. All of the elected officers must be Amateur Radio operators licensed by the Federal Communications Commission.

B. Elected officers of the Society shall serve one year terms (calendar year) and until their successors are elected and take office.

C. The President shall appoint a three-member Nominating Committee and the Nominating Committee shall submit, at the November meeting, names of proposed candidates for each of the four officers and one elected Director. Additional nominations may be made by members from the floor at this meeting.

D. Election of officers from the candidates identified at the November meeting (as the list of candidates may be supplemented by write-in vote at the December meeting) shall take place at the December meeting and shall be by majority vote of the members present.

E. The Board may appoint one or more Assistant Vice-Presidents, Assistant Secretaries or Assistant Treasurers or such other officers, having such duties and responsibilities as the Board shall deem advisable. Such non-elected officers need not be Board members and shall serve at the pleasure of the Board.

F. The President may establish or discontinue committees from time to time in his or her discretion, except as specified in this subsection. A financial review committee of three members shall be appointed by the President at the January meeting each year. The records of deposits and expenditures from the Society's bank accounts shall be reviewed, and a report submitted at the March general membership meeting. A three-person property review committee shall be appointed by the President in January of even-numbered years to review the physical property owned by the Society and present a report no later than the November general membership meeting of the same year. It is recognized that the members of these committees are not professional auditors and they shall not be personally liable for any failure to detect any irregularity that may have occurred.

G. The President shall appoint chairpersons for all committees. Terms for the chairpersons of all committees shall be one year and shall run concurrently with the elected officers, but the President may remove and replace any such chairperson at any time.

ARTICLE IV. DUTIES OF OFFICERS

A. The President shall preside at all meetings of the Society, shall be a member ex-officio of all committees, and shall have all other powers and perform all other duties usually pertaining to the office. The President shall make or cause to be made reports concerning the activities of the Society to the members and to any other relevant recipients such as the American Radio Relay League.

B. The Vice President shall preside in the absence of the President and shall act as aide to the President.

C. The Secretary shall keep an accurate record of all meetings of the Society, and keep a roster of members. The Secretary shall conduct the official correspondence of the Society and be responsible for acquiring information, and maintaining records.

D. The Treasurer shall be custodian of all the funds of the Society, and shall be responsible for the proper deposit of such funds in an FDIC-insured bank or other investment authorized by the Board. The Treasurer shall keep an accurate itemized account of all receipts and expenditures

and pay bills as authorized by the Board of Directors. The Treasurer shall render a report at each meeting of the Society. The Treasurer shall be responsible for filing all necessary reports to the State of Ohio and the United States Internal Revenue Service. Such reports shall be filed at such time as stipulated by the various agencies of the above so as not to incur any penalties for late filing.

E. Officers shall not receive any compensation for their service but shall be entitled to reimbursement of authorized expenditures made on behalf of the Society. The Society may purchase officers liability insurance or other reasonable and customary coverages for the benefit of the officers.

F. Expenditures of more than \$1,000 must be approved by a majority of the membership present and voting at a regular or special membership meeting prior to committing to the expenditure.

ARTICLE V. MEMBERSHIP MEETINGS

A. Regular monthly or bi-monthly meetings of the membership shall be held from January through December. The date of regular meetings for the following calendar year shall be selected by the Board of Directors at its November meeting and published in the Society's official publication, but such scheduled meeting dates may be changed subsequently by the Board upon giving further notice to the members as provided in Article V.D. The meetings of this Society shall be open to interested persons, but the privilege of making motions, debating or voting shall be limited to dues-paid members of the Society, and the presiding officer may exclude any person who is disruptive or whose presence is otherwise determined to be not in the best interests of the Society. Business to be transacted at any regular meeting of the membership shall not be limited to those matters set forth in the notice of meeting, but shall not include amendment of these Bylaws or removal of any Board member unless the proposed actions were set forth in the notice. Members may vote by proxy if a proper written proxy is provided to the Secretary at the meeting.

B. A special membership meeting may be called by the President, or by the Vice President in the President's absence, at a reasonable time and place, with notice as provided in Article V.D. The notice must state the business to be conducted at the special meeting, and only that business may be conducted at that special meeting.

C. 20% of the Society's membership may call a special meeting of the membership at a reasonable time and place. The petition calling such a meeting shall be presented to the President, or to the Vice-President in the President's absence. The petition must state the business to be conducted at the special meeting, and only that business may be conducted at that special meeting. Upon receipt of any such proper petition, notice of the special meeting must be given by the Society to the membership as provided in Article V.D.

D. Notice of regular meetings of members is deemed given when published in the Society's official publication at least ten days prior to such meeting (and may be published up to a year in advance). Notice of a special meeting of members shall be deemed given if it is announced at a regular meeting of the members at least ten days prior to such special meeting, is published in the Society's official publication, or is sent by electronic mail to all members who have furnished such an address to the Society (through subscription to the Society's public email reflector or otherwise), in each case at least ten days prior to such special meeting. Such notice of a special meeting shall set forth the time and place of such meeting and shall be valid if given as stated in

the preceding sentence, whether or not actually received. The attendance of any member at any meeting without protest at the commencement of the meeting shall be deemed to be a waiver of notice of the meeting.

E. The rules in ROBERT'S RULES OF ORDER, REVISED, shall govern the Society's meetings in all cases to which they are applicable unless inconsistent with other provisions of these Bylaws.

ARTICLE VI. OFFICIAL PUBLICATION

A. The official publication of the Society will be called the Q-FIVER, unless a different name is approved by the Board of Directors. It shall be published monthly (with any exceptions approved by the Board of Directors) and distributed to all members in good standing who have furnished an electronic mail address for that purpose.

The Editor shall be appointed by the President. It is the responsibility of the Editor to maintain the editorial policy of the publication consistent with the policies and practices of the Society.

ARTICLE VII. AMENDMENTS

A. These Bylaws may be amended at any regular or special meeting by a two-thirds (2/3) vote of the members present and voting.

B. No Bylaw amendment shall be put to a vote at a membership meeting unless notice of the meeting has been given as provided in Article V.D together with the text of the proposed changes in these Bylaws.

JUNE 2020 ONLINE OFFICIAL MEETING

OH-KY-IN General Meeting Minutes

(Unofficial minutes from Ryan AC8UJ - No submission from Secretary)

June 2, 2020

- Meeting called to order at 8:33 PM - approximately 34 people in attendance at peak
- Ryan AC8UJ shared Sli.do information with the group.
- Ryan AC8UJ led the Pledge of Allegiance
- W8GXR Scott identified as a guest tonight
- David NU8H shared that he is now WE8M, a legacy call from his father who passed away in March
- Ryan AC8UJ read out the meeting attendees for those unable to see who was connected
- There were no Health & Welfare updates
- Brag Session:
 - George N3VQW purchased a 3D printer
 - Brian K4BRI activated an island of the Carolina coast

- Kitty W8TDA worked a contest this weekend with a possible India contact in her log
- Brad KE8JTM made his first HF contact with a new radio
- Scott W8GXR found someone in South Dakota that is Yaesu repair certified, can provide contact if needed
- Anthony Luscre K8ZT presented the program, “Fun with Morse Code” (link to the presentation slides are at <http://tiny.cc/fwm> and a PDF copy is at <https://drive.google.com/file/d/1tTSV47CrfsWgmV4kbhs46yKA7-tWPefp/view?usp=sharing>)
- Bruce N8BV noted that he has provided a correction to the May meeting minutes regarding the date of Red, White & Blue Ash. George N3VQW acknowledged that he had received the correction.
- K8EAF motioned to accept the minutes as corrected, WE8M seconded. Motion passed.
- Membership Report: 148 currently
- Treasurer’s Report: Brian K4BRI (File for audit) - May income was \$20.95 from Amazon Smile, an expense of \$123.16 for OCFW antenna was noted, resulting in an ending balance of \$21,791.89 for May. Bruce N8BV has a check for \$80.82 from Kroger Community Rewards that will be deposited. Ryan AC8UJ has a membership check for \$15 that will be deposited.
- Gary KB8MYC reported for the technical committee that our 2m repeaters are doing their thing and that we have received clearance to move forward with hardline replacement at the 67. Bruce suggested raising the Delhi antenna this Saturday. Gary will check with Aaron to see if we can get access considering COVID.
- Classes/Exams: Mike KD8ZLB reported no news except that he has been hearing from people that there is interest in classes.
- Fox Hunts & ARDF: Bob WA6EZV reported on a May 30th practice ARDF event at Rentschler Park. They had about 8 people there. 5 people set up one transmitter each and then everyone went out. There will be a micro 80m hunt in the Milford area on 6/13.
- Tech Talk: Bruce N8BV reported that tomorrow night it moves back to the 67 repeater.
- Winlink: Ed K8EAF reported big rosters on the net. Ed also noted that he participated in a Red Cross exercise last Saturday. He did not receive any messages from the Red Cross but passed on a few local messages.
- Digital Group report: Jerry W1SCR - Cancelled until further notice. Jerry also noted that this past Wednesday, there was a bad beta version of Winlink that was released and caused you to lose forms and then crashed the computer.
- Rocky KE8DZS reported that he has fixed an issue with the Q-Fiver showing an old version on the web site.
- Mike KD8ZLB reported that QCEN is looking at options for Field Day because they can’t use the Red Cross building, possibly going to use the VND site in Finneytown.
- Mike KD8ZLB reported that ARES has put in over 130 hours manning the ROC radio room over the last weekend with the downtown protests. There is another possible event on Sunday for a Black Lives Matter rally.
- Brunch Bunch: Bruce N8BV reported that it is on hold until restaurants will allow larger groups. Kitty W8TDA asked if the Cabana could be an option since it’s outdoors. Bruce says it’s running a long wait right now.

- Events:
 - 6/26 - 6/28 Field Day Cesi KD8OOB explained that a decision has been made that we will not be doing a group Field Day event as a club event this year due to the potential liability if someone caught COVID-19 from the event. Instead, please work from home and participate as a club member as a 1D or a 1B from your back yard. On the score sheet, put your club in as OH-KY-IN ARS even if you are not 1A or 1F. Still not sure about location for a private group event (not club sponsored), Eric is still working with Hamilton County Parks. Tom W8WTD thinks 1E might be battery operation and 1B might be mobile - check the rules.
 - 8/8 - 1940's Day George N3VQW reports that this has been cancelled
 - 8/29 Milford Hamfest - rebranding to Cincinnati Hamfest in 2021
- Old business:
 - Bylaws update: Ryan AC8UJ noted that a vote on this is still on hold
 - Ryan AC8UJ reported that Nathan KA3MTT has completed the groups.io migration for our public mailing list. We are continuing to work out one detail.
- New Business:
 - KE8CEI Marty - Received a radiogram for Cesi. Msg #112 Routine hx C from WK4WC check of 12 from Mt. Pleasant, NC to KD8OOB. ARL 56
"Congratulations on your ARRL certification of code proficiency. Well done. A most worthy and deserved achievement."
- A motion to adjourn was made by Mike KD8TMO and seconded by George N3VQW
- Meeting adjourned at 9:25 PM

More Amateur Radio Exam Sessions Engineering In-Person, Remote Solutions

As some states further relax restrictions imposed to minimize the spread of the COVID-19 virus, additional teams of ARRL Volunteer Examiner Coordinator (VEC) volunteer examiners (VEs) have conducted successful sessions. On June 13 at the Clark Township Municipal Building, the Electronic Technology Society of New Jersey (ETSNJ) held its first exam session since February, with help from several other clubs. With COVID-19 precautions in place, the June session was held outdoors.



"We had to have two sessions, because we had 20 candidates on our waiting list," said Larry Makoski, W2LJ, a member of the Piscataway Amateur Radio Club. Drew Moore, W2OU, was the ARRL VEC liaison.

"We had the candidates line up their vehicles on one side of the parking lot. Directly across from them were the vehicles of the VEs. They were given the option of taking the exam inside their vehicle, or if they wanted, they could

bring a chair and clipboard and take the exam in front of their vehicle. Each vehicle was checked for compliance as we collected exam fees and checked photo IDs."

Makoski said social distancing was maintained, and face coverings and gloves or hand sanitizer were the order of the day. "We communicated with the candidates via a low-power FM transmitter tuned to 88.7 MHz or thereabouts, and they could hear us on their FM broadcast receivers inside their vehicles," he explained.

All went smoothly, and the weather cooperated. "Everyone who came walked away -- or should I say, drove away -- with either a new Technician-class license or an upgrade," Makoski said. A vacant seat was left for VE Bobby Cure, W2REC (SK), who had succumbed to COVID-19. "We tried to honor his memory by making him present in spirit," Makoski said.

VE teams from the Tri-County Radio Club, the Raritan Valley Radio Club, the South Plainfield Amateur Radio Club, the New Providence Amateur Radio Club, and the Fair Lawn Amateur Radio Club pitched in to help.

On the same Saturday in Florida, Doug Wiles, WF4B, reports that the St. Augustine Amateur Radio Society (SAARS) VE team held its first exam session in 6 months. The session took place in an outdoor pavilion, and test areas were disinfected prior to the candidates' arrival. Face masks were distributed, and social distancing was practiced during the session, Wiles said. All three candidates passed.

On June 14 in Georgetown, Kentucky, VE Ron Malinowski, WX4GPS, with the Scott County Amateur Radio Club said 14 candidates passed their tests during an indoor session held there. "We took temperatures at the door, gave masks to anyone who came without, and we wiped down all seating areas after the attendee left," he said.

ARRL VE Team Liaison Janet Crenshaw, WB9ZPH, in Garland, Texas, told ARRL that a trucker signed up for a recent remote exam session.

"He had a Wi-Fi hotspot in the cab of his truck, so he found a parking space, pulled out his iPad and iPhone, and we had our Zoom test right there," she told ARRL VEC.

"The world certainly has changed, and I've been encouraging people to realize that the world of ham radio has to change with it."



A Touch of Ham Humor!



“Ohhh... YOU thought I was a radiologist! No, I’m a radio-ologist! I repair radios!”

Q-FIVER EDITOR: ROBERT GULLEY (K4PKM) E-MAIL: AK3Q@AK3Q.COM

For questions/comments/suggestions, or article submissions, send me an E-mail!



OH-KY-IN Amateur Radio Society is one of the leading amateur radio organizations in the Cincinnati, Ohio area and has been for most of its 50-plus year history. We are a 501(c)(3) nonprofit organization dedicated to the advancement of all things radio. No matter the amateur radio interest, OH-KY-IN members are *involved*.