



“October 11th Edition”

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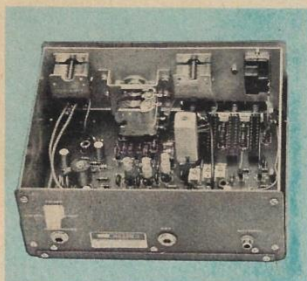
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NEW

Work the world with QRP



All circuitry mounts on single PC board for easy 2-evening assembly



Actual Log Sheet entries & QSL cards from contacts by Heath Hams using the HW-7



2
EVENING
KIT

NOTE: due to the unusually high demand for this transceiver, please allow 45 to 60 days for delivery.

69⁹⁵

NO MONEY DOWN

Heathkit 3-Band CW Transceiver

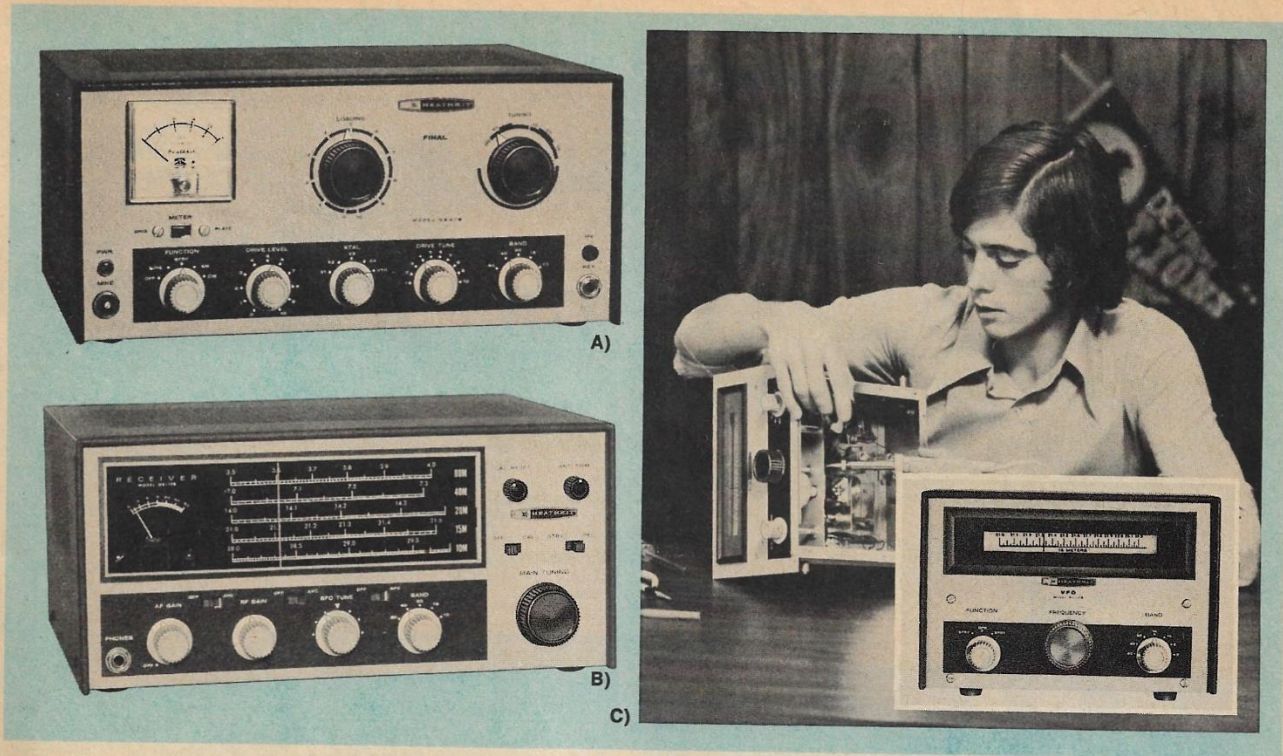
The new Heathkit HW-7 is a three-band QRP (low power) CW Transceiver with VFO and provision for crystal transmit operation. Band coverage is the CW portion of 40, 20 and 15 meters. Whether you're an experienced amateur, QRP fan, or novice, you'll appreciate the dependability and versatility of this rugged little performer. The reliable solid state transceiver circuitry featuring both built-in VFO and crystal transmit capabilities, makes the HW-7 ideally suited for novice use. The sensitive Direct Conversion receiver circuitry offers you a readable signal with 1 uV input or less. Carefully designed transmitter circuitry provides input powers of 3 watts on 40 meters, 2.5 watts on 20 meters, and 2 watts on 15 meters. Band changing and tune-up are a snap, with pushbutton band selection and single-control main tuning featuring 6 - 1 vernier drive with virtually backlash-free operation. Pushbutton crystal transmit provision is great for the novice or QRP roundtables. Built-in sidetone and a relative Power Meter are other top quality features. The HW-7 can be operated from the accessory Heathkit AC power supply, HWA-7-1 (below), an equivalent low impedance power supply, or 12V batteries . . . offering you

complete flexibility whether you use it for standby, camping, emergency operation, or as your primary rig. And it's a fun kit to build, too, with single-circuit-board design and concise check-by-step instructions making it an easy two evening project.

Kit HW-7, Transceiver, less batteries, 6 lbs., mailable **69.95**

Kit HWA-7-1, low voltage power supply provides 13 VDC to power the HW-7 Transceiver from an AC power source. 120/240 VAC operation. 4 lbs., mailable **14.95**

HW-7 SPECIFICATIONS - TRANSMITTER: RF Power Input: 3 watts on 40 meters, 2.5 watts on 20 meters, 2 watts on 15 meters. Frequency Control: 40 meter crystal, or built-in VFO on 40 meters, 20 meter crystal or built-in VFO on 20 meters, 15 meter crystal, or built-in VFO on 15 meters. Output Impedance: 50 Ω unbalanced. Sidetone: Built-in. Spurious and Harmonic Levels: At least 25 dB down. **RECEIVER:** Sensitivity: Less than 1 microvolt provides a readable signal. Selectivity: 1kHz at 6 dB down. Type of Reception: CW. Audio Output Impedance: 1000 Ω nominal. **GENERAL:** Frequency Coverage: 40 meters, 7.0 to 7.2 MHz, 20 meters, 14.0 to 14.2 MHz, 15 meters, 21.0 to 21.3 MHz. Frequency Stability: Less than 100 Hz drift after 10 minutes warmup. Power Required: 13 volts DC, 35 mA receive and 450 mA transmit. Dimensions: 4 3/4" H x 9 3/4" W x 8 3/2" D, including knobs and feet.



Start an exciting Amateur Radio hobby with Heathkit Novice Gear

A) Heathkit DX-60B Phone & CW Transmitter

80-10 Meter Operation — with 90 watts peak input on AM and CW

Operates at Reduced Power for Novice Class

Low Pass Filter — reduces television interference

Run 75 watts CW input for novice operation — a full 90 watts phone or CW when you move up to general. Pi output provides fast, easy tuneup into any 50-75 ohm resistive load. Drive Level control, grid/plate current meter and Drive Tune control enable proper tune-up for maximum output, minimum harmonics, best quality audio. Four crystal sockets and provision for operation with external VFO such as the HG-10B below provide maximum operating versatility. Easy assembly . . . requires only a VTVM for alignment. Get on the air now, with a rig that'll last a lifetime — order your Heathkit DX-60B today.

Kit DX-60B, 24 lbs., less crystals, mailable **79.95**

DX-60B SPECIFICATIONS — Power input: 90 watts, peak; controlled carrier phone, or CW. Output impedance: 50-75 ohm (coaxial). Output coupling: Pi-network. Operation: CW or AM phone — crystal or VFO control. Band coverage: 80 through 10 meters. Power requirements: 120/240 VAC, 50/60 Hz, 225 watts. Dimensions: 6½" H x 13¾" W x 11½" D.



100 kHz crystal calibrator

Produces a signal every 100 kHz thru 54 MHz. Can be calibrated with trimmer against WWV. 9V battery, not included.

Kit HD-20, 1 lb., mailable **14.95**

B) Heathkit HR-10B 5-Band Receiver

80-10 Meter Coverage — tunes SSB, AM & CW
Optional Plug-in Crystal Calibrator

Ideal for the novice or beginning general class ham who demands top performance at a modest price. Tunes AM, CW & SSB, with excellent stability for CW & sideband. Full 80 through 10 meter coverage with each band separately displayed on the accurately calibrated illuminated slide-rule dial. Separate RF and AF gain controls provide extra convenience. . . BFO allows easy, fast sideband tuning. A high quality crystal lattice filter delivers sharp 3 kHz selectivity. 1 uV sensitivity provides capability that puts many more expensive receivers out of the QSO. Built-in "S" meter, switchable AVC and automatic limiter provide the versatility you expect in a first-rate communications receiver. Provision for the optional HRA-10-1 kHz crystal calibrator. Alignment requires an RF signal generator and VTVM.

Kit HR-10B, less speaker, 20 lbs., mailable **79.95**

Kit HRA-10-1, plug-in 100 kHz crystal calibrator, 1 lb., mailable . . **9.95**

HR-10B SPECIFICATIONS — Frequency coverage: 80 Meter Band, 3.5 to 4.0 mc.; 40 Meter Band, 7.0 to 7.3 mc.; 20 Meter Band, 14.0 to 14.35 mc.; 15 Meter Band, 21.0 to 21.5 mc.; 10 Meter Band, 28.0 to 29.7 mc. Intermediate frequency (IF): 1681.0 kc. Sensitivity: 1 microvolt for a 10 dB signal plus noise-to-noise ratio. Selectivity: 3 kc at 6 dB down, 9 kc at 40 dB down. Image rejection: 40 dB or better. Input impedance: 50 to 75 Ω, coaxial. Audio output impedance: 8 Ω, or 500 Ω. Panel controls: AF GAIN, AC OFF-ON; RF GAIN; BFO TUNE; BAND Switch; MAIN TUNING; CALIBRATE; ANTENNA TRIMMER; REC-STBY Switch; CALIBRATE ON-OFF; BFO ON-OFF; AVC ON-OFF; ANL ON-OFF. Tube complement: 6BZ6 RF Amplifier; 6EA8 Mixer Oscillator; 6BA6 1st IF Amplifier; 6EA8 2nd IF Amplifier-BFO; 6BJ7 Detector-AVC-ANL; 6EB8 1st Audio-Audio Output; 6X4 Rectifier. Power requirements: 120/240 VAC, 50/60 Hz, 50 watts. Cabinet size: 6½" H x 13¾" W x 11½" D.

C) HG-10B 80-2 Meter VFO

Our HG-10B VFO covers 80 through 2 meters with separate calibrated scales for each band. Has smooth 28:1 vernier tuning; temperature compensated circuitry for drift free tuning. Provides 5 V rms in the 3.4-4, 7-7.425 and 8-9 MHz ranges. Compatible with virtually all grid-block keyed transmitters and most cathode-keyed transmitters. Alignment requires receiver of known accuracy covering either the 80-2 meter bands or 3.5 to 8.222 MHz range.

Kit HG-10B, 12 lbs., mailable **47.50**

charg-a-kit — No money down on any kit — up to 2 years to pay — see order blank for details.

CQ CQ CQ de WB8LCD

Ham Radio is such an expensive hobby! How could anyone ever afford to get involved with it? Take a good look at the radio gear above taken from the 1972 Heathkit catalog. If you were a kid getting into the hobby, that might have been a pretty good way to get started. If you look at the “Novice Gear” page, you could buy that whole station, including the VFO and the plug-in crystal calibrator for only \$217.35! Pretty good deal. But wait, step back into 2021 for a minute.

Using the US Bureau of Labor Statistics calculator (available online), the present value of that \$217.35 on January 1, 1972 would be \$1446.71 in August of 2021! When you think of it in terms of dollars only, the \$1446.71 is not unobtainable in the world today – even to a youngster. But, even keeping the number of dollars the same – as adjusted for inflation – think of what you could get for the \$1446.71 today. How about an Icom 7300, with a power supply, and still having money left over for an HT, a roll of coax and a dipole antenna kit. I would say that the advances in the technology far outpaced the cost based on inflation. When you look at the whole package, it’s never been *cheaper* to get into Ham Radio and have some *really* neat “Gear” at the same time! And that’s part of the MAGIC of our hobby.....

But there’s a different point of entry to the hobby these days. I don’t have a statistic, but I’d be willing to say that the number is north of 75% of those coming into the hobby, that their first experience is with an HT. I’d also be willing to bet that for an awful lot of them, that first experience is somewhat of a let-down. Let’s say you are a new ham, with a new HT. You program in all of the local repeaters. You turn it on, and you hear nothing! You’re still excited so you listen some more, nothing. You call out asking if there is anyone there, no response. I can imagine it might be especially tough if you’re a kid. BUT, that’s not the new guy’s fault! That’s *our* fault. It’s *our* responsibility to give that new Ham a good first experience with the hobby so that he’ll want to continue with it and bring along his friends and family.

Here’s what we need to do. Turn on your HT (I know you’ve probably got 3-5 of them, on average), listen to your local repeater and throw your callsign out there every once in a while, so others will know you’re listening too. Turn on the radio in your car and toss your callsign out there, even if it’s only a short trip. Strike up a conversation, make some noise so the new guys can find you. Most importantly, when you hear someone you don’t know, or someone who is obviously new, give them a call. Help them experience the MAGIC of radio! And please, be nice. Your job is to give them a good first experience, not to point out all the mistakes they may be making.

Our hobby needs new members. We need to make a good first impression on anyone and everyone who is interested in getting started with our hobby. Yes, ARRL, other national and international clubs, and our local clubs can all do more to bring in new hams and give them the experience they need to stay engaged. But more importantly, it’s an individual responsibility for each of us to be an ambassador to those we come into contact with. I’m challenging you to be there when the new guy shows up and let him know he’s welcome to join us.

Regarding OH HB283 – the distracted driving law, I’ve heard from many of you that you have contacted your local representative. Good JOB! And keep it up. Chris – KD2HCE received the following response:

“Hello Chris, thanks for reaching out.

HB 283 had a 3rd Hearing in the House Criminal Justice Committee in September. During that meeting, an amendment was adopted to HB 283 that exempted those licensed as amateur radio operators from the distracted driving law when using their amateur radios (otherwise known as HAM Radios).

The bill currently remains in the House Criminal Justice Committee.

Let me know if there is anything else our office can assist with.

Thanks,

James

James Lee

Legislative Aide

Office of State Representative Sharon Ray

Phone: (614) 466-8140



Finally, a little bit of Ohio / Radio history. Sent to me from N9ACC – Arnal Cook:

Tom,

I attended my Navy SPECWAR Unit reunion in August. This placard caught my attention as I got off the Jetboat ferry at Put in Bay, OH. You can blow the picture and read it. First ship-to-shore comms.

" First Ship to Shore Radio Broadcast

Bayview and Hartford Avenues, near the Jet Express Dock

On July 18, 1907, Dr. Lee deForest broadcast the first ship-to-shore radio message from the steam yacht Thelma. The communication provided quick, accurate race results of the Annual Inter-Lakes Yachting Association (I-LYA) Regatta. Frank E. Butler, a Monroeville, Ohio, native and assistant to deForest, was stationed in the pavilion at Fox's Dock (known today as The Jet Express Dock) and received the radio transmission. The creation of the vacuum tube by deForest permitted the rapid development of radio and eventually television. The inventor disliked the existing term "wireless," and chose a new moniker — "radio." On this site wireless-transmission radio broadcasting was born. "

Keep your eyes and ears open! You never know what you'll find out there with an interesting connection.

73,

Tom Sly – WB8LCD
ARRL OHIO Section Manager
330-554-4650

ARRL Learning Network Webinars

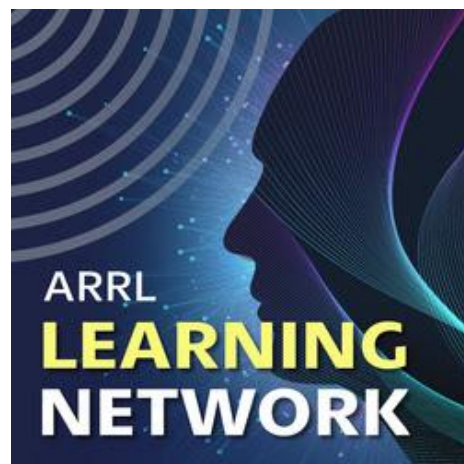
Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.

Using the Raspberry Pi with Ham Radio / Presented by Jason Oleham, KM4ACK, Tuesday, October 19, 2021 @ 1:00 PM EDT (1700 UTC)

Computers have become an important part of amateur radio. The Raspberry Pi is a low-cost yet powerful computer that can be used for many amateur radio tasks. Jason Oleham, KM4ACK, an avid YouTube content creator, discusses how to use the Pi, why he started using it, and why he developed Build-a-Pi, a script that gets hams up and running quickly.

ARRL members may register for upcoming presentations and view previously recorded [Learning Network](#) webinars. ARRL-affiliated radio clubs may also use the recordings as presentations for club meetings, mentoring new and current hams, and discussing amateur radio topics.

The [ARRL Learning Network](#) schedule is subject to change.



ARRL Continues Its Efforts to Preserve Amateur Radio Secondary Use of the 3 GHz Band

ARRL President Rick Roderick, K5UR, in a [written statement](#) on the newly filed H.R.5378 before the US House Commerce Communications and Technology Subcommittee on Wednesday, urged Congress to direct the

FCC to preserve amateur radio's secondary use of the 3-GHz band. President Roderick's statement was the result of a quick, well-organized response by ARRL to counter the continuing threat to amateur radio's secondary use of the 3 GHz band.

Approximately 10 days ago, ARRL became aware of a provision in the \$3.5 Billion Budget Reconciliation Bill that would have required that approximately 200 MHz of the 3.1 - 3.45-GHz band be reallocated to the use of 5G vendors. Moving swiftly, the ARRL Executive Committee authorized ARRL's Washington Counsel to begin preparations to respond. But, confronted with the probable delay of the Reconciliation Bill and an uncertain future for the 3 GHz provisions, Subcommittee Chairman Michael Doyle (D-PA-18) and Representative Doris Matsui (D-CA-6) introduced similar reallocation language on September 29 as H.R.5378 (117th Congress, 1st Session) and scheduled hearings on it and related communications bills for October 6.



The Executive Committee and the Legislative Advocacy Committee immediately set efforts in motion in Washington to obtain support for ARRL's position. Meetings were held on short notice to request support with the offices of Subcommittee members including Representatives Adam Kinzinger (R-IL-16) and Tim Walberg (R-MI-7), as well as with Representatives John Larson (D-CT-1) and Joe Courtney (D-CT-2).

In addition, ARRL Atlantic Division Vice Director Bob Famiglio, K3RF, and ARRL Washington Counsel David Siddall, K3ZJ, met with Chairman Doyle's Chief of Staff on October 1, to explain why it's important that amateur radio continue to be permitted to operate in the 3.3 - 3.45-GHz band.



ARRL President Rick Roderick, K5UR.

In his written statement to the Subcommittee in conjunction with the hearing, President Roderick emphasized that permitting Amateur Radio to continue to have use of the 3.3 - 3.45-GHz band on a strictly secondary, non-interfering basis will provide full protection to commercial licensees with exclusive licenses and further the public interest in providing a means for continued technological innovation.

Despite vigorous opposition from ARRL and others, the FCC in 2020 ordered the "sunsetting" of the 3.3 - 3.5 GHz band in order to auction the spectrum to commercial 5G providers. The Commission allowed amateur operations to continue in the lower 150 megahertz of the band, 3.3 - 3.45 GHz, until it acts in a future rulemaking to address that spectrum. Amateur operations were allowed to continue in the upper 50 megahertz, 3.45 - 3.5 GHz, only until 90 days after the auction including that spectrum has closed. The auction began this week; it is likely that operations will have to cease in February or March, 2022.

"A core standard of spectrum policy should be to maximize use of this valuable but finite spectrum resource," President Roderick told the panel. "The [FCC] in earlier proceedings adopted a variety of methods to share and maximize use of the spectrum by radio amateurs and others, but in its latest 3 GHz proceeding it did not do so, despite hundreds of comments filed by radio amateurs."

President Roderick said that if the current policy continues, existing spectrum at 3 GHz being addressed in H.R.5378 "will be cleared indiscriminately," leaving "significant spectrum resources vacant into the foreseeable future while radio amateur experimentation and operation will be forced to cease for no reason except regulatory myopia. It need not be so."

President Roderick pointed out that in earlier proceedings, the FCC adopted methods to ensure unencumbered spectrum access by primary users while accommodating secondary users on a non-interference basis. "These methods work well and remain effective without complaint in other frequency bands, and also should be applied to the 3 GHz band," he said.

Primary commercial users "would rarely use all of their licensed spectrum throughout their entire licensed service areas," President Roderick said. In its recent 3 GHz proceeding, however, the FCC "went beyond merely prohibiting amateur operations in areas and at times when primary Commission licensees might use the spectrum," ruling instead that all amateur operation in the subband being auctioned must terminate within 90 days of the auction's close. President Roderick told the FCC that it is not logical for the Commission to leave spectrum unused before licensees start using it.

He said there is no technical basis for removing amateur secondary operations from the 3 GHz band where radio amateurs "long have used the bits and pieces of unused spectrum for technological innovation."

H.R.5378 is not yet law, and ARRL's efforts to preserve amateur radio access to 3.3 - 3.45 on a secondary basis will continue. Read [an expanded version](#).

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Sunspots were visible every day this week, but numbers were lower. Average daily sunspot numbers declined from 58.4 to 30.7, and average daily solar flux was down 2.9 points to 86.9.

Geomagnetic activity was a little higher, with average daily planetary A index going from 7.3 to 8.1, and average daily middle latitude A index from 6.3 to 6.7.

Friday, October 1 was affected by a solar flare from sunspot group AR2871, driving the planetary A index to 15. This had a greater effect at higher latitudes, with Alaska's College A index hitting 30 and 31 on Friday and Saturday. In the middle of the UTC day on Saturday, the College K index hit 7 -- a high number.

Predicted solar flux is 82 on October 7 - 9; 80 on October 10 - 13; 75 on October 14 - 16; then 80, 85, 88, and 90 on October 17 - 20; 88 on October 21 - 22; 85 on October 23 - 24; 90, 100, 95, and 90 on October 25 - 28; 88 on October 29 - November 5; 85 and 80 on November 6 - 7, and 75 on November 8 - 12.

Predicted planetary A index is 5 on October 7; 8 on October 8 - 10; 12 and 8 on October 11 - 12; 5 on October 13 - 17; 10, 12, 10, and 8 on October 18 - 21; 5 on October 22 - 24; 10 on October 25; 5 on October 26 - 31; 8 on November 1 - 2; 5 on November 3; 8 on November 4 - 5, and 5 on November 6 - 13.

Sunspot numbers for September 30 - October 6 were 46, 28, 25, 38, 29, 27, and 22, with a mean of 30.7. The 10.7-centimeter flux was 94.6, 90.5, 87, 86, 83.5, 81.7, and 84.8, with a mean of 86.9. Estimated planetary A indices were 9, 15, 8, 6, 6, 5, and 8, with a mean of 8.1. Middle latitude A index was 6, 13, 6, 6, 4, 6, and 6, with a mean of 6.7.



A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean...," and [check out](#) the Propagation Page of Carl Luetzelschwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

Club Corner

This is YOUR corner of the newsletter. Send me what your club is doing and I'll make sure that it gets in. Got a special event or club project that you want everyone to know about? Send it to me! Need help with a project? Send it to me.

Let me know what your club is up to. Are you going to have a special guest at your meeting or are you having a special anniversary?

Just sent it to: webmaster@arrl-ohio.org **Please! Format as below:**

If you want me to publish your club information, or even an article you have written, please send it in WORD format (.docx). Please use Times New Roman font size 12 for the body of the article. Any photos please include as a .jpg or .bmp – the time you save me in doing all the conversions will be greatly appreciated



VE Sessions

Dayton Amateur Radio Association (DARA)

If you are interested in testing for a new or upgraded license, please come see us at the DARA Clubhouse. If you have questions about testing, please email exams.w8bi@gmail.com

Lake County Amateur Radio Association (LCARA)

Saturday December 4

All exams start at noon and are held at the Kirtland Library, 9267 Chillicothe Rd. Kirtland, OH

Portage County Amateur Radio Service (PCARS)

The first Saturday of every even numbered month -10 am – at the PCARS club site in Ravenna. Please visit the PCARS web site and check out the information about VE testing in the latest newsletter at www.portcars.org .

If you have any questions, don't hesitate to contact me at KB8UUZ@gmail.com

The Milford Amateur Radio Club (MARC) is now doing VE testing on the third Thursday of each month at 6:00 PM. Location; Miami Township Civic Center located at 6101 Meijer Drive, Milford, OH 45150.

Please pre-register at www.milfordhamradio.org

Cuyahoga Amateur Radio Society (CARS)

11/14/2021 09:15 AM Walk-ins Welcome. Location for testing is at: Elmwood Recreation Center 6200 Wisnieski Parkway Independence, OH 44131 Contact: Metro – W8MET 216-520-1320

Athens Co FoxHunt

The Oct. 9th fox hunt was won in just over a half hour by wd8scv Paul Schulz. He's pictured here receiving the traveling Trophy doll from Fox Eric McFadden WD8RIF. After a walk down Frumm Rd to see the road slip that caused the closure, the group adjourned to a local Mexican restaurant for a good meal and discussed the event.



JAMBOREE ON THE AIR

Sunday October 17th
10AM – 4PM

Orange Village Fire Dept.

Rear Lot

4600 Lander Rd. Orange Village, OH 44022

DONATION OF \$5 PER PERSON SUGGESTED

(OFFSETS COST OF LUNCH AND PATCHES)

LUNCH PROVIDED (HOT DOG, POP, CHIPS)

Scouts will be given demonstrations of various types of voice and digital amateur radio communications methods. Scouts of any age can participate, from Cub Scouts to Boy Scouts and Venturers, including girls. Once at the ham radio station, the communication typically involves talking on a microphone and listening on the station speakers. However, many forms of specialized communication may also be taking place, such as video communication, digital communication (much like sending a message on your smartphone but transmitted by radio), or communication through a satellite relay or an earth-based relay (called a repeater). The exchanges include such information as name, location (called QTH in ham speak), Scout rank, age, and hobbies. The stations you'll be communicating with can be across town, across the country, or even around the world! The World Scout Bureau reported that the 2017 JOTA-JOTI had over 1.5 million Scout participants from more than 160 countries.

SIGN UP AT www.n8esg.org/jota

JOTA PATCHES

Patches given to the first
25 attendees



K9 DEMO AT 10 AM

K9 Search Demonstration
by North Central Ohio K-9
Search & Rescue



COMMS TRUCK TOUR

Tour and OPERATE from
inside the Chagrin Valley
Dispatch HAVOC-1
Communications Vehicle



Contact with
questions:
info@n8esg.org

Cooperative Statewide AR Licensing Classes

Many local Amateur Radio clubs often run licensing classes. These are very important to maintaining and increasing the number of licensed hams in the US. They also play an important role in the recruitment of new members into local clubs. Quite often these classes have only a minimum number of attendees in comparison to the amount of work put in by the club members that teach the classes. They have to find (sometimes also pay rent for) a place for the class and handle other aspects of teaching.

COVID has also been a factor complicating in-person classes. Last year our club, Cuyahoga Falls ARC-

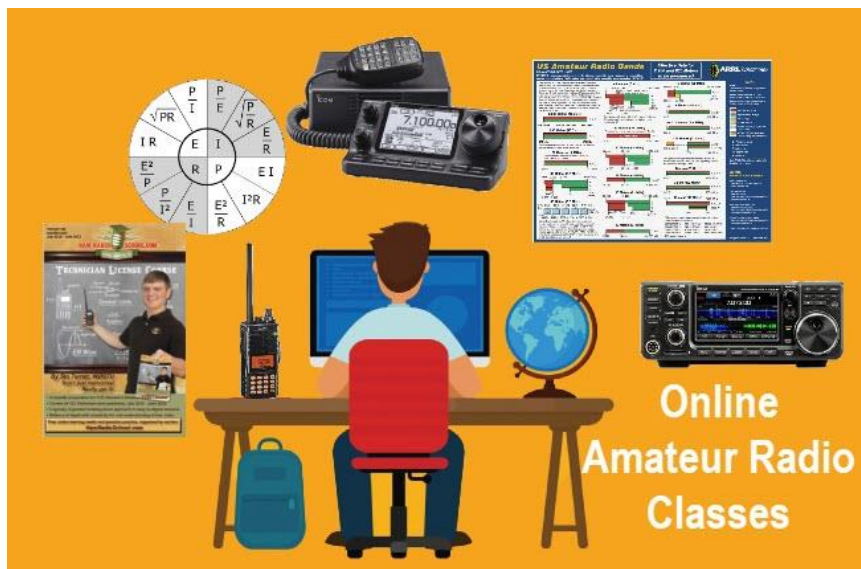
www.cfarc.org) decided to take our Tech and General Licensing Classes online. We used Google Meet for online conferencing and Google Classroom to manage the class, distribute materials, provide sample quizzes, share resources, etc. We had a combination of local students, wider-ranging Ohio students and students from three other states. We will be doing this again this year and would like to involve your local club.

Free Licensing Class

Become An Amateur Radio Operator



Cuyahoga Falls Amateur Radio Club



Our plan is to do our usual local recruitment of students for the classes but we would also like to enlist your local club's help in recruiting candidates from your local area. The big difference is we will refer any students from your area of the state to your local club for membership and most importantly in-person mentoring (Elmering). Even if you do not refer to them, if we have students from your area we would like to know that we can refer them to you for membership and Elmering.

What we would like you to do:

1. Advertise our classes in your newsletter, nets and local media
2. Let us know that you are interested in getting referrals to your club
3. Take an active role in getting these new licensees on the air and acclimated with Amateur Radio operations

What we will do:

1. Provide free online Tech and General Class Licensing instruction
2. Accommodate students from around Ohio and US of all ages
3. Welcome resources, handouts, recordings, guest lecturers, etc. from other clubs
4. Provide a sample news release you can modify for your local media
5. Refer all students completing the classes to radio clubs and VECs in their local area
6. Advertise the class on ARRL website and locally

The Tech License classes will begin Sunday, Oct 10th and run for six weeks. Classes are 1:30 to 4:00 PM and all students must pre-register. The General License classes are not yet scheduled but will run in January/February 2022

Resources/Links

- Class Info- [link](https://docs.google.com/presentation/d/e/2PACX-1vQU9aeMBjS5jeJn_Zz5bpxiFNKOdGkGePYGbXe_hk96aE2iabOZWtFcn4ONEdqMw sdnR6KTUQ4_jWnk/pub?start=false&loop=false&delayms=3000) (https://docs.google.com/presentation/d/e/2PACX-1vQU9aeMBjS5jeJn_Zz5bpxiFNKOdGkGePYGbXe_hk96aE2iabOZWtFcn4ONEdqMw sdnR6KTUQ4_jWnk/pub?start=false&loop=false&delayms=3000)
- Class Registration- [link](http://tiny.cc/cfarc-tech) (http://tiny.cc/cfarc-tech)
- Sample News Release (a Google Doc that will make a copy and you can edit for your local media)- [link](#)
- Contact Information
 - Anthony Luscre, K8ZT k8zt@arrl.net 330-650-1110
 - Jim Grover, N8PZL n8pzl@arrl.net 330 928-8921

Please contact us if interested in participating k8zt@arrl.net

Your Club news should be listed here!

I know you're out there doing things! Send me a write-up (MSWord please) and some photo's (.jpg please) and we'll get your club hi-lited here for the other OH Section Clubs to see! Send to WB8LCD@ARRL.ORG

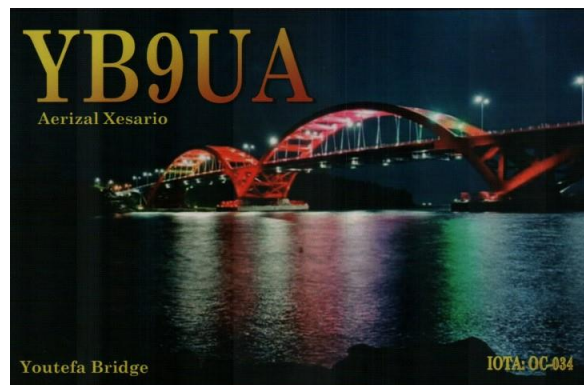
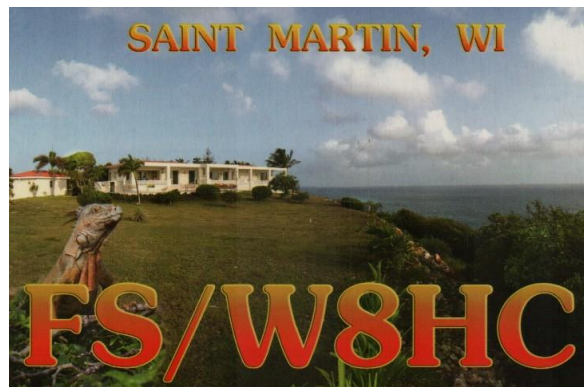
DX This Week – K9LA

Bill AJ8B (aj8b@arrl.net, @AJ8B, or www.aj8b.com)
CWOPs Member #1567

The spots this week included Alaska, Albania, Algeria, Anguilla, Argentina, Balearic Islands, Bonaire, Brazil, Canada, Chile, Comoros, Costa Rica, Crete, European Russia, Fed. Rep. of Germany, France, Gibraltar, Greece, Guatemala, Hungary, India, Italy, Kenya, Madeira Islands, Mali, Montenegro, Netherlands, Norway, Peru, Pitcairn Island, Portugal, Sicily, Slovenia, South Africa, Spain, St. Helena, Trinidad & Tobago, Ukraine, Uruguay, Wales, Western Sahara, and Zambia. Unique spots are now 196 for the year – fast approaching 200 for the CQ Marathon chase!



I received cards from CP:4BT – Claus in Bolivia, FS/W8HC – Hal operating the Rig in a Box from St. Martin, I1ULJ – Salvatore in Italy, and YB9UA – Aerizal in Indonesia. What did you get?



DAH DIT DIT DIT DAH DAH DIT DIT DIT DAH

As K9LA, Carl, always does, he has given me permission to reprint the article below. After listening to Carl at the W8DXCC convention and then various speakers at the W4DXCC convention, I thought it would be a good time to brush up on my Gray Line basics. I heard several stations on 160M two weeks ago and am getting excited about the fall DX season. Don't forget, even with spotting networks, propagation forecasts, and all of the tools that we have at our disposal, nothing beats time in the chair!

Anatomy of a 20m Gray Line QSO

Carl Luetzelschwab K9LA

(this article appeared in the March/April 2003 issue of The DX Magazine)

On January 29 around 1215 UTC, Tony AA2AE worked Paran VU2AU on 20m long path with exceptional signals. This was a classic gray line path. With some help from DXAID (from Peter Oldfield) and VOACAP (free download at elbert.its.bldrdoc.gov), we can gain a good understanding of what made this path work.

Figure 1 (from DX AID) shows the long path (thick dark line) from AA2AE to VU2AU, along with the terminator (thin line dividing night and day) at 1215 UTC on the 29th.

Indeed, this is an excellent example of a gray line path, with the terminator and long path in perfect alignment around 1215 UTC.

To analyze this path, let's begin with a

review of what determines if propagation exists between W2 and VU on the long path. First, there must be enough ionization to get RF from W2 to VU. This is expressed in terms of a maximum usable frequency (MUF) for this specific path, and depends on the time of day, the month, and where we are in a sunspot cycle. I'll assume a quiet geomagnetic field for this analysis.

Second, if the ionosphere can get a signal from W2 to VU (and vice versa), then the signal arriving at each end of the path has to be strong enough to be heard. The five major factors that affect the strength of the signal are the transmitter power, the antenna gains (including ground quality considerations and obstructions), the free space path loss (spreading loss), the amount of absorption, and the ground reflection losses for multiple hops. Ideally, we should also address noise (predominantly atmospheric and manmade), but we'll keep it simple here and just look at signal strength.

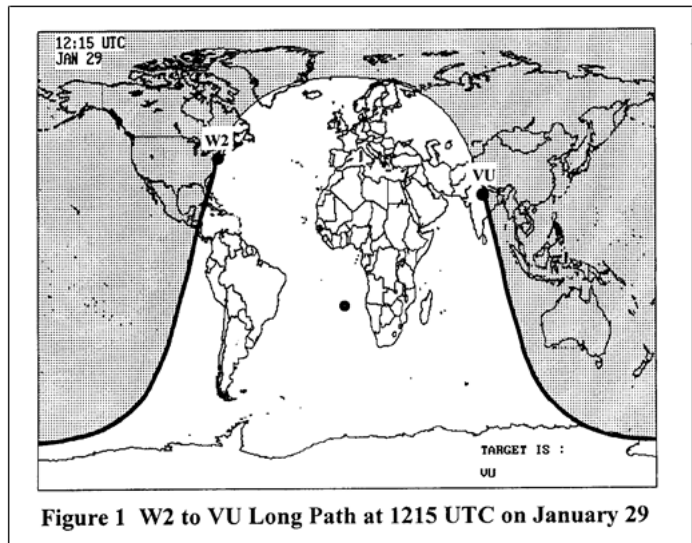


Figure 1 W2 to VU Long Path at 1215 UTC on January 29

Using data from VOACAP, we can plot the MUF and the signal strength for this path versus the time of day. I assumed S9 equals 50uv and one S-unit is 5dB. The results are per Figure 2 at a predicted smoothed sunspot number of 80 for January 2003 (from www.dxlc.com/solar, for example).

Figure 2 shows that the monthly median MUF (which is what customarily comes out of our prediction software because the model of the ionosphere is a monthly median model) begins increasing around 1000 UTC, rises sharply between 1100 UTC and 1300 UTC, then levels off after 1300 UTC.

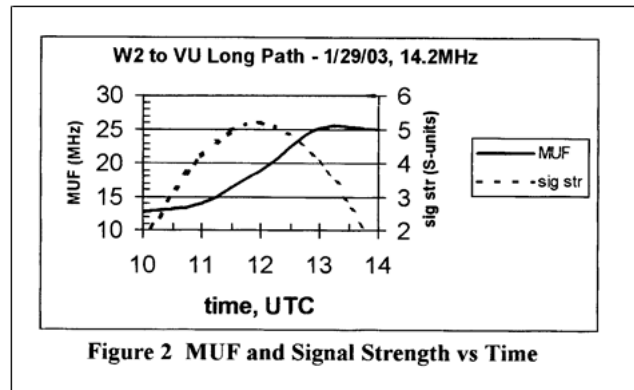


Figure 2 also shows that the monthly median signal strength (same comment as above applies) starts moving the S-meter around 1000 UTC, peaks around 1200 UTC, then goes back down below S2 by 1400 UTC.

Why does the MUF rise between 1100 and 1300 UTC? And why does the signal strength peak around 1200 UTC? Figure 3, a time sequence of three pictures, explains this.

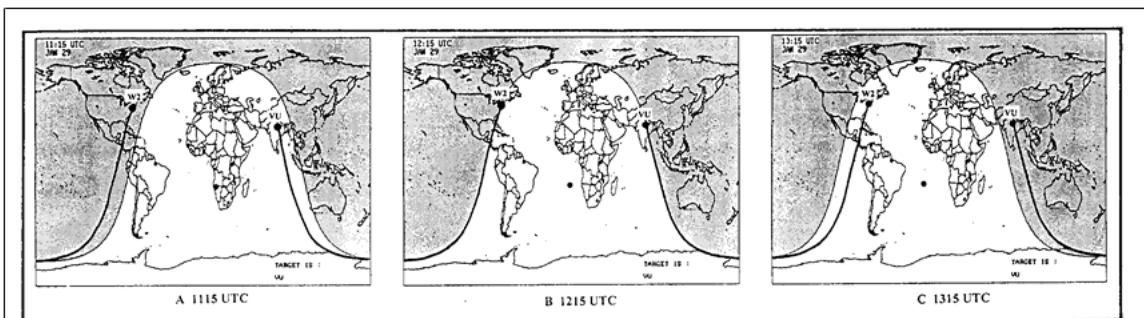


Figure 3 Time Sequence for the W2 to VU Long Path

Figure 3a (left) shows the long path and terminator an hour prior to the QSO at 1115 UTC. The VU end of the path has been in sunlight all day, so the MUF is high. On the other hand, the W2 end of the path has been in

darkness all night. Thus the MUF on the W2 end has decreased to its nighttime value –which Figure 2 shows to be around

12.5MHz. As the terminator approaches the W2 end of the path, the F region on that end starts getting illuminated and thus starts building around 1100 UTC. It rises through 14MHz just after 1100 UTC.

Figure 3a also sheds light on why the signal strength peaks around 1200 UTC. The VU end of the path, being in lots of daylight, incurs much absorption. Now look at Figure 3c (right). It's one hour after the QSO at 1315 UTC, and now shows the W2 end of the path in lots of daylight, incurring much absorption. It is logical to assume that absorption along the entire path would minimize in between these two extreme conditions – in other words, it would minimize when the terminator aligns with the entire path, putting the entire path at equal illumination as seen in Figure 3b (center). Indeed, VOACAP says the system loss minimizes around 1200 UTC. It's safe to assume that this is due to absorption minimizing, as the other two losses (spreading loss and ground reflection loss) do not change versus time. It's important to note that absorption doesn't go to zero along the terminator (or even in the dark ionosphere, for that matter) – this is especially critical on the lower frequencies.

Thus, what opens the W2 to VU long path is the increasing MUF on the W2 end of the path in conjunction with decreasing absorption along the entire path as the terminator aligns with the path. What closes the path is increasing absorption on the W2 end of the path as it goes more and more into daylight.

Does the data of Figure 2 say this path should be there every day around the end of January? No, because the data is monthly median data. The MUF and the signal strength vary on a day-to-day basis about their monthly median values, and they're not necessarily in step. On some days, the MUF may not be high enough when the signal strength peaks. On other days, the signal strength may not peak high enough even though the MUF is high enough. And on even other days, neither may be high enough.

What about the reports from AA2AE and VU2AU that "the signals were exceptional"? The S5 prediction from VOACAP certainly isn't "exceptional" (it was based on their power levels and my best estimate of their antenna system gains). Being a monthly median value, the peak signal strength for this path could vary from roughly 20 dB below to 10 dB above S5 on any given day (from eyeballing the 90% and 10% values of transmission-loss variability in the tables in CCIR Supplement to Report 252-2). This could account for signal strengths up to about S7 on 'good' days (and down to about S1 on 'bad' days).

Another possibility that could improve signal strengths even further is a chordal hop across the geomagnetic equator on the VU end of the path. That end of the path is at the right time of day to give the ionospheric tilts that are necessary for a chordal hop, and a chordal hop would offer one less ground reflection and two less traversals of the absorbing region. As a side note, chordal hops and other ionosphere-ionosphere modes are discussed in my May 2003 and June 2003 Propagation columns in Worldradio.

Finally, it's interesting to look at this path on the next higher band (17m) and on the next lower band (30m). With absorption inversely proportional to frequency squared, the signal strength on 17m would be roughly 1 S-unit stronger at the peak time. But now would the MUF be high enough? Figure 2 suggests that any opening on 17m, while offering stronger signals, would on average be of a shorter duration as the MUF wouldn't get high enough until the signal strength started decreasing.

On 30m, again due to absorption being inversely proportional to frequency squared, the signal strength at the peak time would be roughly 3 S-units weaker. Except around solar minimum, the MUF on 30m would be high enough throughout the day so that it's out of the picture. Thus, it comes down to being solely an absorption issue on 30m (and on lower frequencies, too). Another subtle issue comes into play as we go lower in frequency – refraction is also inversely proportional to frequency squared. So the electron density gradient across the terminator makes it tough for a low frequency signal to follow a great circle route when the terminator is nearby – it wants to refract, or skew, away from the higher density in daylight to the lower density in darkness.

In summary, analyzing a gray line path is no different than any other path. Whether the path is open depends on the answer to two questions: *Is the MUF high enough?* and *Is the signal strength high enough?* When you think about it, MUF and signal strength are like that old Frank Sinatra song about love and marriage - they go together like a horse and carriage. For propagation to be possible, you can't have one without the other.

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Here is an update from Bernie, W3UR, of the DailyDX and the WeeklyDX, the best source for DX information. <http://www.dailydx.com/> . Bernie has this to report:

OX – Greenland - Danish operators OZ1AA, OZ1DJJ, OZ1KNJ, OZ7AKT and OZ7AM will be teaming up as a multi-op effort during the 2021 CQ Worldwide DX SSB Contest, October 30-31. They will be using the call OX7A during the biggest contest of the year. Look for "activity before and after the contest by all ops using [their] personal calls". The team will arrive in Kangerlussuaq on October 26th and depart on November 9th. QSL OX7A via OZ1ACB either direct or via the bureau, including OQRS via Club Log and LoTW.

3B9 - Rodrigues Island - After over two years of inactivity, 3B9FR, Robert, is again active, as of September 21. He has been worked on 20, 15 and 17 CW. One example, 21020 CW at 1500Z. On Friday Robert emailed W3UR saying "Yes, it's me," and he is "getting some fun meeting the big waves" (airwaves). "I am glad to be back." QSL via M0OXO. M0OXO also confirmed it, noting "For those that are relatively new to the hobby, Robert... is a resident of Rodrigues... he is mainly a CW op," but he does do the occasional SSB and FT8 modes." "It is great to have him QRV again and we all want to wish him well." <https://www.m0oxo.com/oqrs>

3Y - Bouvet Island - The 3Y0J planning continues. They now plan online Zoom sessions for DXers to follow their journey, apparently access given when you make donations. <https://www.3y0j.no/funding>. Some have already signed up. <https://www.facebook.com/groups/3093983840726129>

C5 - The Gambia - C5C from Kololi will be October 24 to November 19, maybe longer. Operator F5NVF, Gerard, will be on 60-10M CW and SSB with his IC-7000. F5RAV, M0NPT, and 6W7RV will join later and bring along an IC-705 and an Expert 1.3 amp. They will be on CW, SSB, FT8 and the QO-100 satellite. They will be there October 28 to November 8 and be a team in the CQWW DX SSB weekend October 30-31. QSL to F5RAV.

9J - Zambia - 9J2BO, Brian, who enjoys CW and rag chewing was worked yesterday at 1445Z on 28.030 MHz by K3RA, Rol. Brian is "working on getting some other 9J2 stations on CW". This is good news for CW ops. Rol went on to say, "9J2BS is very active on digital modes and a 'very experienced operator'. Brian expects 9J2BS, Jerry, to be on CW more now that he has Begali Simplex paddle and is getting on CW now. 9J2REK, Brent, is taking a CW course and has made some QSOs.

D6 - Comoros - D60AC was working across the US yesterday on 21.295 MHz on SSB between 1700 and 1745Z. The D6 team reported yesterday "High wind destroyed part of our antennas. We had to repair them and it slowed our operation."

TZ - Mali - KF7E, Jim, in Arizona, reported working TZ4AM, Jeff, on 30 meters (10.119 MHz) yesterday at 2240Z. Jeff had peaks signals of 579 into the SW US some two and a half hours prior to sunset in AZ. Earlier in the day yesterday Jeff took down his 3-element 30 meter Yagi for a "couple of problems with one of the elements". Jeff was able to put the antenna back up and reported it was "working great" as he was "working into NA for the past hour (around 2300Z), with good reports.

LX – Luxembourg - ON4EI, Olivier, is "vaccinated and back to business" as he heads to Luxembourg for the CQ Worldwide DX SSB Contest, October 30-31. He will be single-op all-band low-power as LX/ON4EI. QSL via LoTW.

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CONTEST CORNER

Below is a list of upcoming contests in the “Contest Corner”. I think this is important for someone who is trying to move up the DXCC ladder since entities that are on the rarer side and easiest to work in contests. Some of my best “catches” have been on the Sunday afternoon of a contest when the rarer entities are begging for QSOs. Of course, the gamble is that if you wait until Sunday, conditions may change, or they simply won’t be workable. However, it is not a bad gamble. Of course, why not work the contest and have some fun!

Check out the WA7BNM Contest Calendar page (<https://www.contestcalendar.com/>) and CQ Magazine for more contests or more details.

The contests in **red** are those that I plan to spend some significant participation time on. PLEASE let me know if you are working contests and how you fared.

Thanks!

Oct. 13	RSGB Autumn Series Data	https://bit.ly/3p4eShW
Oct. 13	VHF-UHF FT8 Activity	www.ft8activity.eu/index.php/en
Oct. 16	Feld Hell Spooky Sprint	https://bit.ly/3g8gpxD
Oct. 16-17	10-10 Intl. Fall CW Contest	http://bit.ly/1FrFeBc
Oct. 16-17	Araucaria World Wide VHF Contest	www.avhfc.com/rules/en.pdf
Oct. 16-17	New York QSO Party	www.nyqp.org
Oct.16-17	JARTS WW RTTY Contest	http://jarts.jp/rules2021.html
Oct. 16-17	Worked All Germany Contest	http://bit.ly/2uDQRSV
Oct. 17	Asia-Pacific CW Sprint	http://jsfc.org/apsprint
Oct. 17	RSGB RoLo CW Contest	https://bit.ly/3xJDZtO
Oct 17	UBA ON 2M Phone/CW Contest	https://bit.ly/3kKYKzj
Oct. 17	Illinois QSO Party	https://w9awe.org/ilqp
Oct. 18	RSGB FT4 Contest Series	http://bit.ly/3mCNXXH
Oct. 18-22	ARRL School Club Roundup	http://bit.ly/MaLmBs
Oct. 20	AGCW Semi-Automatic Key Evening	http://bit.ly/2WB74qy
Oct. 23-24	ARRL EME Contest	www.arrl.org/eme-contest
Oct. 23-24	North American SSB Sprint Contest	https://ssbsprint.com/rules
Oct. 23-24	Stew Perry Topband Distance Challenge	www.kkn.net/stew/stew_rules.html
Oct. 23-24	UK/EI DX Contest	www.ukeicc.com/dx-contest-rules.php
Oct. 24-25	Telephone Pioneers QSO Party	http://tpqso.tparca.org
Oct.24-25	Fall Classic Exchange CW	www.classicexchange.org
Oct. 26-27	Fall Classic Exchange CW	www.classicexchange.org
Oct. 27	UKEICC 80m CW	https://bit.ly/2SDPqQQ
Oct. 28	RSGB Autumn Series SSB	https://bit.ly/3p4eShW
Oct. 30-31	CQWW DX SSB Contest	www.cqww.com/index.htm
Nov. 27-28	CQWW DX CW Contest	www.cqww.com/index.htm

SB DX ARL ARLD040
ARLD040 DX news

This week's bulletin was made possible with information provided by KC5CW, The Daily DX, the OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites.
Thanks to all.

RODRIGUEZ ISLAND, 3B9. Robert, 3B9FR has been QRV using mainly CW with some occasional SSB and FT8. QSL via M0OXO.

KINGDOM OF ESWATINI, 3DA0. A group of operators will be QRV as 3DA0WW from October 12 to 26. Activity will be on 160 to 10 meters using CW, SSB, and various digital modes. QSL via operators' instructions.

CROATIA, 9A. Tom, 9A2AA is QRV with special event call sign 9A302AA until July 2022 to celebrate the 30th anniversary of Croatia's independence. QSL to home call.

MOZAMBIQUE, C9. Elvira, IV3FSG is QRV as C92R. Activity is in her spare time on 80 to 10 meters using SSB and various digital modes. QSL direct to IK2DUW.

CANARY ISLANDS, EA8. Chris, DL4FO will be QRV as EA8/DL4FO/p from La Gomera, IOTA AF-004, from October 10 to 21. Activity will be on 40 to 10 meters using mostly CW with some SSB. This may include some SOTA and WWFF activations on the island as well. QSL to home call.

FRENCH GUIANA, FY. Curtis, KC5CW is QRV as FY/KC5CW until November 3. Activity is on 160 to 6 meters using slow CW, SSB, PSK, and FT8 in DXpedition mode. QSL via LoTW.

SCOTLAND, GM. Members of the West of Scotland ARS are QRV with special call sign GB4GDS until November 2 to draw attention to the Guide Dogs for the Blind Association Scotland. QSL via GM4DAE.

REPUBLIC OF KOREA, HL. Special call sign HL30UN is QRV until October 31 to celebrate the 30th anniversary since the Republic of Korea was admitted to membership in the United Nations. QSL via EA5GL.

GUINEA-BISSAU, J5. Members of the Italian DXpedition Team will be QRV as J5T and J5HKT from Bubaque Island, IOTA AF-020, from October 9 to 22 using CW, SSB, RTTY, and FT8, respectively. Activity will be on 160 to 6 meters. QSL via I2YSB.

ANTARCTICA. A group of operators are QRV as KC4USV from McMurdo Station on Ross Island, IOTA AN-011, until October 31. Activity is on 40 and 20 meters using SSB and FT8. QSL via K7MT.

AUSTRIA, OE. Members of the Amateur Radio Contest DX Club will be QRV as 4U1A from October

10 to 31 to celebrate United Nations Day. QSL via bureau.

SURINAME, PZ. Sascha, PF9Z will be QRV as PZ5ZS from October 12 to 20. Activity will be on 80 to 10 meters using SSB. QSL to home call.

CANADA, VE. Alex, VE1RUS and Pierre, VE3TKB will be QRV as VY0ERC from the Eureka Amateur Radio Club on Ellesmere Island, IOTA NA-008, from October 12 to November 22. Activity is on the HF bands. This includes being entries in the upcoming CQ World Wide DX SSB and ARRL Sweepstakes contests. QSL via M0OXO.

Please see October QST, page 75, and the ARRL and WA7BNM Contest web sites for details.

Upcoming *Hamfests*

We **DO** have some hamfests scheduled for 2021!! Yes, take a good look at the list. The sad news is, if it doesn't show up here now, it's been cancelled!



10/31/2021 - [Massillon \(Ohio\) Hamfest](#)

Location: Green, OH **Sponsor:** Massillon Amateur Radio Club

Website: <http://w8np.org>

[Learn More](#)

12/04/2021 - [FCARC WinterFest](#)

Location: Delta, OH

Sponsor: Fulton County Amateur Radio Club

Website: <http://k8bxq.org/hamfest>

[Learn More](#)

OHIO'S



N8ZNR and I just returned from a visit with my sister and brother-in-law, who live in the North Carolina mountains only to learn the ever popular and well attended **Grant RC** Hamfest scheduled for early November is to be cancelled. It appears the owners of the event site were going to require everyone to wear a mask and limit the number of people that could be in the building at any given time. A Thursday evening phone call from Club President Ken Klousterman, KD8FKU, confirmed the grand prizes will still be awarded through a drawing of those advance tickets already purchased. If you have already purchased your ticket get your stub to a **Grant RC** member or you may mail it to me at 21 Highland Drive, Hillsboro, OH 45133 and I will add it to the pile of those I already am holding to enter for others.

Highland ARA President Pat Hagen, N8BAP, wishes to thank those who made the effort to work the Club's "World's Largest Horseshoe Crab" special event station this past Saturday. Pat says dozens of stations were logged and requests for the QSL Certificate are coming in. Pat also reports the station was visited by several hams as well as a good number of non-ham curiosity seekers who learned of the event through news articles appearing in the two Hillsboro/Highland County newspapers and local broadcast radio.

The **Scioto Valley ARC** and **Clinton County ARC** recently held VE testing sessions and added some new hams to the Southern Ohio ham license count. SVARC's John Hartmus III, WB8GRX, tells us Joseph Corbin is now KE8SYZ and Lyle Person is KE8SZA. Joe is from Waverly and Lyle traveled from Cincinnati to test. Mike Boyle, WF8B, reports Mark Hinrichsen journeyed from West Chester to the Wilmington test session and went away with a CSCE for General. He has since been granted the KE8SYY callsign.

Although some weeks away, Lyn Alfman, N8IMW, wants to remind members of the **Cambridge ARA** their assistance is needed to provide communications for the November 27 Cambridge Christmas Parade. The help is needed between 2 and 6 PM that afternoon.

The **Highland ARA** will hold a business meeting and social gathering for family and friends on Tuesday, October 12. Besides the meeting, the event will feature a wiener roast and bonfire. It will be held at the Club's Field Day site at 810 Levo Road, New Vienna. The gathering will start at 6 pm for the early arrivals. President N8BAP extends an invitation to any amateur or club interested in attending to do so. In last week's OSJ, Section Manager Tom highly suggested clubs visit other clubs and develop relationships. Here's an open door opportunity to do just that! Lawn chairs are recommended. 987-393-4951 for more information.

Just a reminder the **Portsmouth RC** has cancelled all test session and in person meetings until further notice because of the current COVID instances in the Scioto County area. However their early December Christmas Party and Dinner is still planned to take place.

Most of us know Michael Kalter, W8CI, as the spokesman for the **Dayton HamVention**©. However most do not know of his involvement with the National Weather Service's SkyWarn program where he volunteers at the Wilmington NWS facility. Mike has recently some interesting information about recent weather trends. If you observed a decrease in the number of wind and thunderstorms, hail and tornadoes during the past year your observations are correct. However we could be in for above average precipitation for the winter. So get those snow shovels ready.

Speaking of Christmas dinners, plans are still "GO" for the **Southern Ohio ARA's** 'Christmas in November' holiday celebration. It will be on Monday, November 15 at the Frisch's in Ironton. They will gather in the back room at 6 pm. Depending upon the then current restaurant policy the meal will be from either the menu or a buffet. Information Officer Mike Love, WB8YKS, states the traditional gift exchange won't take place this year so to have more time to enjoy the meal, socialize and to have a brief meeting to introduce the new officers.

By now, **Athens County ARA** voting members should have received paper ballots to vote for those who will lead the Club in the coming year. President Eric McFadden, WD8RIF, requests all eligible to vote to cast and return their ballots in time for the October 19 vote count. If a ballot has not been received, contact club Treasurer Drew McDaniel, W8MHV, at once.

Also from the Athens Club comes notice from Jeff Slattery, N8SUZ, of the upcoming November 13 Bobcat Trail Marathon at the Burr Oaks State Park near Glouster. He is in need of amateurs to assist with communications along the route. Those interested in assisting should contact him with any preferred location request.

A delegation from the **Highland ARA** recently returned from the W4DXCC DX Convention and Ham Radio Bootcamp and can't speak enough about the event attended by over 150 amateurs. The **Southwest Ohio DX Association's** Bill Salyer, AJ8B, was a speaker and our own Ohio Section Manager Tom Sly, WB8LCD, was also in attendance. HARA members attending were Pat Hagen, N8BAP; Richie Hagen, N8CUB; Doug McLaughlin, KB8DOT and their spouses. They each suggest a future attendance at this event be seriously considered as there is something that will appeal to everyone.

Our **Greater Mason County ARC** correspondent Brent Wells, N4BDW, passes along a neat tip for those of us who take to the outdoors to do operating. I'm certain each of us have opened the travel case and found to our dismay a broken microphone connector clip. For those of us who have had those telephone type microphone connectors, automatic tuner cables and other items with such connector clips broken in the Pelican type travel cases, a good and cheap preventive measure is to purchase a package of travel toothbrush cases. A package of those cases normally can be found in the dollar type stores. They usually contain 3 to 4 covers that are large enough to protect the clip and connector while not allowing it to slip back through the hole protecting it from damage. This might be something those of you who are into POTA activations, search and rescue activities or with an emergency GO Box might think about. Thanks for the suggestion Brent!



As previously mentioned, Kathy and I just returned from a visit to my sister in North Carolina's mountains near Asheville. While there I listened to some area repeaters and found hams in that area are like us here-disappointed in the cancellations of hamfests and in person meetings and gatherings. However I did learn a real gem-the Southern Appalachian Radio Museum in Asheville-has reopened for visitors on Saturdays from 1 until 3. I have

previously visited the Museum and seriously believe they have a copy of every ham radio commercially manufactured! Check out their website at www.avlradiumuseum.org.

The **Highland ARA**'s monthly Brunch Bunch gathering turned into an Elmer session as Bob McFarland, N8ZDL led a discussion regarding Fox Hunting and a possible future program devoted entirely to the subject.

That does it for another visit to the South 40. In the meantime stay safe, healthy and ham radio active.

73, John Levo, W8KIW
jlevo@cinci.rr.com

Print an Official or Unofficial Copy of Your Amateur Radio License

(By Anthony Luscre, K8ZT)

As of February 17, 2015, the **FCC no longer routinely issues paper license documents** to Amateur Radio applicants and licensees. The Commission has maintained for some time now that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS). The FCC will continue to provide paper license documents to all licensees who notify the Commission that they prefer to receive one.



Licensees also will be able to print out an official authorization — as well as an unofficial “reference copy” — from the ULS License Manager. I’ve created a set of instructions on how you can request an **“official” printed copy of your license***

[Click here to download the instructions](#)

One Question Questionnaire

I consider this one of the most important questions I’ve put up here, so how about going to www.ARRL-OHIO.org and giving me a click? (It’s in the bottom left corner of the page) I’ll have more to say about this in the next OH Section Journal!

“Will you operate at least 1 major contest this season?”



From the last Poll: ***“Have you worked an ATNO (all time new one) in the last 60 days?”***

Only 25 responses, it broke out to 8 yes’s and 17 no’s. I’m expecting better numbers than that on this weeks survey – *and* – I’m expecting more of you to get on the air and log some good Q’s!

Ohio Section Cabinet

Section Manager – Tom Sly, WB8LCD	Section Traffic Manager – David Maynard, WA3EZN
Section Emergency Coordinator – Stan Broadway, N8BHL	Section Youth Coordinator – Anthony Luscre, K8ZT
Technical Coordinator – Jeff Kopcak, K8JTK	Affiliated Clubs Coordinator – Tom Sly, WB8LCD
State Government Liaison – Bob Winston, W2THU	Public Information Coordinator – John Ross, KD8IDJ



Hey Gang,

Have you taken a look at the **Swap & Shop** page on the Ohio Section webpage yet?? Here’s a link that will take you there... <http://arrl-ohio.org/sm/s-s.html>

Do you have equipment that you just don’t need or want anymore? Here’s a great venue to advertise it, and it’s FREE!! Is your club doing a fund raiser to help raise money? After a lot of thought, it was decided that the Swap & Shop webpage could also contain these types of items as well. The same rules will apply as do for the For Sales and Give-A-Ways and will only be posted for a month at a time. Please see the Terms & Conditions on the webpage.

If your club is doing a fund raiser and wants more exposure, please forward the information to me and I’ll advertise it on the Swap & Shop webpage for you.

Now, I still want to remind you that it won’t be listed in this newsletter because it would take up way too much space, so your ad will only appear on the website. It is there for any individual to post equipment Wanted / For Sale or Give-Away as well as for Club Fund Raisers. No licensed vehicles/trailers or business advertising will be posted. Postings are text only (no pictures or graphics) will be posted for a maximum of 1 month from date posting and require a contact phone number or email within the posting. Send your Wanted / For Sale or Give-Away post to: swap@arrlohio.org

Back Issues of the PostScript and Ohio Section Journal

Hey, did you know that PostScript and Ohio Section Journal (OSJ) are archived on the website? You can go back and look at any edition simply by clicking:
<http://arrrl-ohio.org/news/index.html>



Want to Share your Club Newsletter With Others?

We have a webpage where you can download and read all of the newsletters that I get from around the state and even other sections!

Here's the link to the page.... http://arrrl-ohio.org/club_news/index.html

Please, if you don't see your club newsletter posted, it's because I'm not receiving it. Just have your newsletter editor contact me and I'll get your club's newsletter listed on the site!!



We all learn and steal (I mean, share) from each other's work. So, get me your newsletter!!! Send it to: webmaster@arrrl-ohio.org

Chit – Chat, and All That!

Do you know someone that's not getting these Newsletters? Please, forward a copy of this Newsletter over to them and have them “[Opt-In](#)” to start receiving them. Heck, just have them send an email to: webmaster@arrrl-ohio.org and we'll get them added to the Ohio Section Emailing list.



We now have many thousands of readers receiving these newsletters weekly. Quite impressive, I'd say! I urge all of you to make sure that everyone, regardless of whether they are a League member or not, get signed up to receive these weekly Newsletters.



You can always “Opt-Out” at any time if you feel this is not what you were expecting. It's fun and very informative. All of your favorite past newsletters are now archived too. You can go back at any time and read them.

Just go to: <http://arrrl-ohio.org/news/>

The pictures on the front page and throughout this newsletter are from various newsletters, Facebook posts and/or were sent directly to me in recent weeks. Take a good look at them, you just might be in one of the pictures! “SMILE... you're in the Ohio Section News!!”



PostScript is produced as a weekly newsletter. I want to thank everyone that has contributed articles and ideas to make this an even better news source. I sincerely hope that you have enjoyed this edition and will encourage your friends to join with you in receiving the latest news and information about the Ohio Section, and news and events happening around the world!