



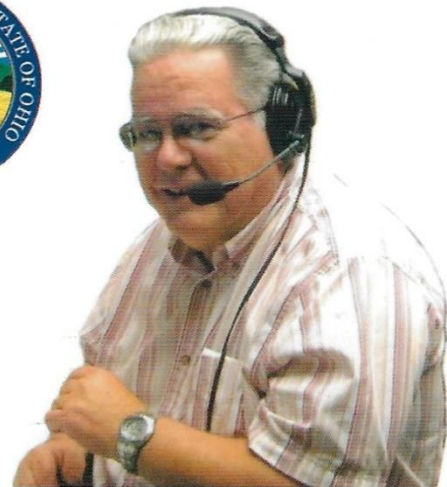
“November 1st Edition”

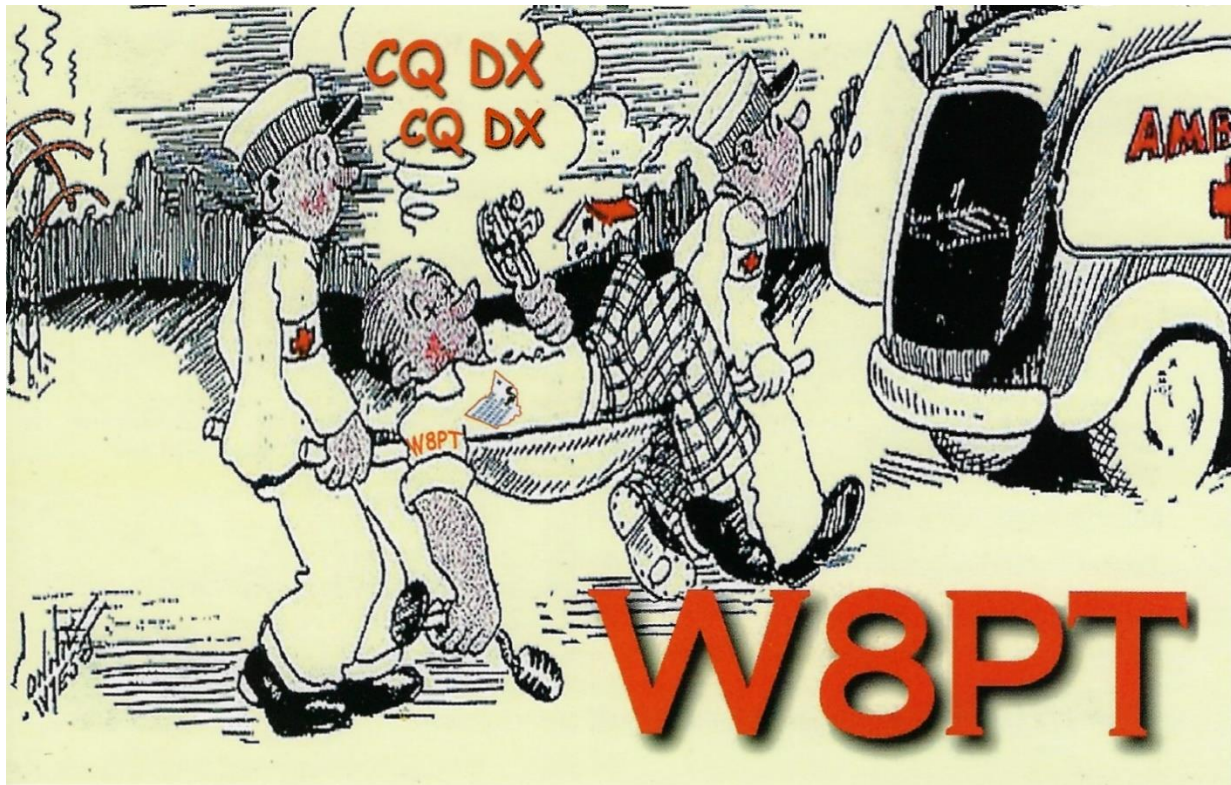
- [National News](#)
- [DX This Week](#)
- [Upcoming Hamfests](#)
- [VE Testing](#)

- [Club Corner](#)
- [Contest Corner](#)
- [One Question Questionnaire](#)
- [South 40](#)

K'8UTZ

*73 from
Ohio USA*





CQ CQ CQ de WB8LCD

This is it. You've got 2 more months of 2021 and then it's gone! If you had some "Ham Radio" goals for 2021 you better be figuring out how you can get them done, if you haven't accomplished them already.

I've had some discussions with a few people over this past year about what Ham Radio really is. I contend that Ham Radio is a "hobby" while others claim it to be a "service". I'm willing to concede that maybe it's both. If you really think about it, there is no one label you can put on Ham Radio – we're too many different things – and that's what makes it a *fantastic* hobby. Because it covers so much ground, that's what also makes it a "service" that has lots of ways to serve our communities. Providing a service is also the primary way that we justify our existence (not to mention our frequency allocations) to the general public.

As individuals, and as clubs, Amateur Radio Operators do many things to serve our communities. If you look at Part 97, where amateur radio rules are listed, at the very beginning are laid out the reasons for our existence (the underlining is mine):

§97.1 Basis and purpose.

The rules and regulations in this Part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:

- (a) Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.
- (b) Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.
- (c) Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communications and technical phases of the art.
- (d) Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.
- (e) Continuation and extension of the amateur's unique ability to enhance international goodwill.

Each and every one of those “reasons” is a service we provide to our communities. But, if the rest of the world is unaware of what we do, does it really count? Anyone ever heard of the song “This Little Light of Mine”? One of the three goals I set forth for my term(s) as Section Manager was to increase and improve upon our “public awareness” in the communities in which we operate. In our case, the state of Ohio. One of our most important positions in the Ohio Section Cabinet and in each of our clubs, is the Public Information Officer (PIO). If we hide our light under a basket, it’s going to go out. We need to let it shine! Keep that thought in mind as we move into 2022, you’ll be hearing more about it.

Also, in part 97 you’ll see:

§97.3 Definitions.

(a) The definitions of terms used in Part 97 are:

(4) Amateur service. A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.

Here is where we conceive that Amateur Radio is a “hobby”. That has a lot of connotations, including that we cannot accept payment for our communications. As a hobbyist, as opposed to an employee, we are pretty much on our own to determine how we want to pursue the hobby. Even in the exalted position of OH Section Manager, I cannot tell any of you what you have to do as a ham. I can ask, and hopefully I can convince you that what I ask is something you want to do for the good of the hobby. That’s where it ends, but there is one exception: when you or I volunteer for a position in an organization (my position as ARRL Section Manager is a volunteer position) then we have voluntarily accepted the duties of that position which may include supporting the positions of the organization. If it’s a volunteer position, we can all un-volunteer at any time.

As a “hobbyist” you’re on your own to determine how you will enjoy your hobby. I would argue that you have a responsibility to participate in the “service” aspect at some point, but that’s your prerogative. As a volunteer ARRL Section Manager, part of my job description is to help you all enjoy your hobby to your fullest capacity. That’s a pretty broad assignment. My perception of that is to help motivate you to participate.

The first part of participation is simply get your butt in the chair and get on the Air! Plug in the iron and melt some solder. Make the adjustments to the antenna system. Go on the DXpedition. Make some satellite qso’s. Do the activities of Amateur Radio!

The second part is a bit harder for some of us. Learn and improve your skills. Sure, if you get a license and do the activities, you'll learn a lot. But not everything. You'll gain some skills but not to the nth degree. Learning and practice have to be done *on purpose* if you want to get to the top of your game. You know professionals' study, learn and practice every day! There's a story about a professional golfer (whom I won't name here) that had just finished a round and was headed back to the clubhouse. Someone approached him and said "Boy, I wish I could golf as good as you do!" Even though it was probably meant as a compliment, the Pro was offended and turned around and scolded "You mean you wish you could play as good as I do ***IF IT WAS EASY!*** But you aren't willing to go out to the driving range every morning before you go to work and hit balls until your hands bleed. You're not willing to study the course before you go play it. You're not willing to put in the time and effort it takes to play golf at a professional level."

And he's right. But the point is, even as *amateur* radio operators, we can develop skills and gain knowledge that would make us better than lots of professionals in the field. In fact, I know many hams, amateurs, who have more knowledge and more professionalism in their hobby than many of the people who call themselves professional have.

Lots of folks sit down on January first every year and make their "resolutions". I want to ask you both as individuals, and as clubs, to start now to set your amateur radio goals for 2022. Once you have goals, break them down into the steps it will take to accomplish them. Set up a timeline as to when you will have each step completed. I promise, if you do that, you will be a better ham and your peers will notice. You will be more excited about the hobby, and you will be in a better position to serve your community. It's a Win/Win for sure!

One last thing, everyone needs a little help. If you can help the ARRL, that's certainly appreciated. Your local club will appreciate it too. Don't forget about organizations like the Youth DX Adventure program. Help fund that and other DXpeditions. Do what you can, and if you do that, you've done enough.

73,

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

National News

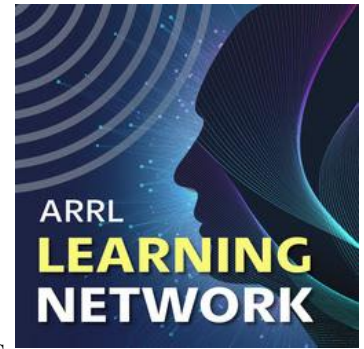
ARRL Learning Network Webinars

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

More webinars are coming soon!

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.

ARRL members interested in presenting a webinar can complete the online [Speakers Form](#).



ARRL is Hiring

We have several openings in key positions at ARRL Headquarters in Connecticut, including career opportunities in PUBLIC RELATIONS.

Current Job Openings

Download Flyer (PDF)

The following is a list of PR position openings. You'll find these and additional job openings posted at www.arrl.org/careers.

Public Relations & Outreach Manager

The PR & Outreach Manager is responsible for increasing the awareness and value of the Amateur Radio Service to the public at large, for promoting the value of ARRL and the contributions of its member-volunteers, and for developing outreach opportunities that support awareness and growth of amateur radio. The ideal candidate will be a storyteller who is adept at writing content and developing campaigns to convey our message to various audiences. This professional must possess the know-how to train and motivate grassroots volunteers, and the ability to develop and sustain long-term relationships with external media. Additional responsibilities include driving and handling media inquiries, answering questions, handling "crisis" situations, and creating a PR plan for the association.

Social Media Strategist

The Social Media Strategist is responsible for developing and administering social media content that is aimed at engaging users and creating an interactive relationship between our audience and ARRL. Written, graphical, and video posts will continually highlight the enthusiasm and passion of amateur radio with ARRL's community and beyond. This position will use social data analytics and trends to make informed decisions and recommendations. Responsibilities include driving relevant metrics of success, adapting to various platforms, and understanding the social media landscape and its audiences.

Who do you know?

We're seeking candidates with the following background:

- ...has experience in public relations, communications, journalism, and social media
- ...has experiencing working with, and developing, volunteers
- ...creates, edits, and produces written content and videos
- ...has a passion for Amateur Radio or the enthusiasm to learn

Maybe it's YOU!

Or, share these positioning openings with people you know in your radio club and community.

What's it like to work for ARRL?

Our number one goal is to promote and support the Amateur Radio community. ARRL has been doing that since 1914! Our members, volunteers, and staff are everything to us. We offer the opportunity to become part of a team that is passionate about advancing ham radio.

Thanks for helping us spread-the-word!

73 Bob NQ1R

Bob Inderbitzen, NQ1R – Director of Public Relations and Innovation

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ARRL Foundation Scholarship Program to Accept Applications Starting on November 1

The ARRL Foundation will start accepting applications for its 2022 scholarship program on November 1. The submission deadline is December 31. More than 100 scholarships ranging from \$500 to \$25,000 will be awarded in 2022. The 2022 scholarship year totals an eligible amount of over \$800,000 to be awarded.

All applicants must be FCC-licensed radio amateurs (active non-US radio amateurs are eligible for scholarships sponsored by ARDC), and many scholarships have specific requirements, such as intended area of study, or



residence within a particular ARRL Division, Section, or state, and license class. Some scholarships also require additional documentation, such as letters of recommendation.

The ARRL Foundation will be utilizing a new Scholarship Management Platform for the 2022 ARRL Foundation Scholarships. Applicants no longer choose specific scholarships but will be matched with all scholarships for which they qualify.

Transcripts and any additional required documents must be submitted with the application, not emailed separately as was done in the past. Applications without accompanying transcripts and applicable required documentation will not be considered.

The ARRL Foundation Scholarship Committee will review all applicants, and scholarship recipients will be notified in May 2022 via USPS mail and email. For more information, visit the [ARRL Foundation Scholarship Program](#).

US and Region 2 Amateur Radio Direction Finding Championships Results are In

The results are in for the 20th US ARDF Championships and 11th IARU Region 2 Amateur Radio Direction Finding (ARDF). Four days of competitions were held October 14 - 17 in North Carolina. The results will help determine the makeup of the US ARDF team at the 20th ARDF World Championships, set for summer 2022 in Serbia. The US Championships and the World Championships were rescheduled from 2020 after they had to be canceled due to COVID-19 restrictions. Visitors from outside the US were unable to attend this year's competition due to continued travel restrictions.



Competitors ranged in age from 14 to 74. Competitive events were held in the Birkhead Mountains Wilderness Area just south of Asheboro, North Carolina. Events began on October 14 with sprint events, a fast-paced competition in which two sets of five transmitters operating on two different 80-meter frequencies transmit nonconsecutive 12-second bursts every minute. Two elite competitors completed the sprint course in just over 15 minutes, a world-class time.



Two classic events were held on October 15. The longer courses for the younger adult categories took place on 2 meters, and the shorter courses for the older adult and youth categories took place on 80 meters.

Foxoring, a combination of radio direction finding and classic orienteering on 80 meters, followed the next day. "Foxoring tests the map-and-compass navigation skills of the participants," ARRL ARDF Co-coordinator Gerald Boyd, WB8WFK, explained. Competitors try to hear the weak signals of very-low-power transmitters until they arrive very close to the marked locations and make a quick sprint to find

Adalia Schafrath-Craig (W19) finishes her golden performance in 2-meter classic ARDF. [Imre Polik, KX4SO, photo]

Competitions concluded on October 17 with a different map and two more classic events, this time with the bands swapped for those on the longer and shorter courses.

"Two standout youth competitors turned in impressive times on adult courses in the womens' W19 category," Boyd said. Youths included Adalia Schafrath-Craig (14 years old) of North Carolina who picked up classic and foxoring golds, and Elizabeth (Lisa) Afonkin (15 years old) of Massachusetts who won the sprint gold.

For more information on amateur radio direction finding, visit the [ARRL ARDF website](#). Read [an expanded version](#).

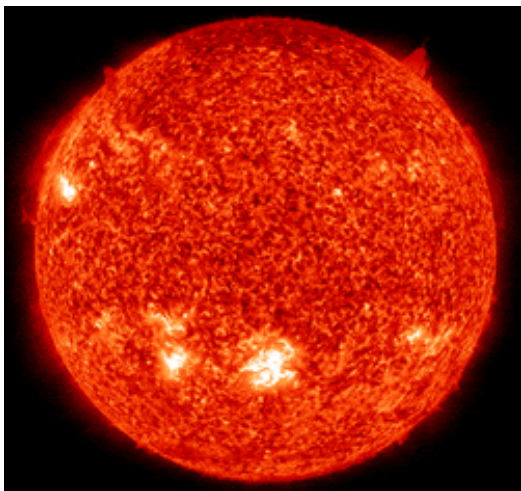


Classic ARDF competitors. [Imre Polik, KX4SO, photo]

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Sunspot activity was up this week, with the average daily sunspot number increasing by nearly five-fold from 11.3 to 54.9. Average daily solar flux rose from 78.6 to 95.7. The sunspot number peaked on Tuesday at 95, and daily solar flux peaked on Wednesday at 110.9.

Geomagnetic indicators were quiet. Daily average of planetary A index went from 8.4 to 4.4, and average daily middle latitude A index declined from 5.4 to 3.6.



Predicted solar flux looks quite promising at 111 and 112 on October 28 - 29; 110 on October 30 - 31; 108 on November 1 - 3; 90 and 88 on November 4 - 5; 86 on November 6 - 7; 85 on November 8 - 9; 83 on November 10; 82 on November 11 - 15; 85 on November 16 - 20; 94 on November 21; 95 on November 22 - 23; 96 on November 24; 95 on November 25 - 29, and 92, 90, 88, and 86 on November 30 - December 3.

Predicted planetary A index is 5 and 8 on October 28 - 29; 10 on October 30 - 31; 5 on November 1 - 5; 12, 10, and 8 on November 6 - 8; 5 on November 9 - 14; 10 and 8 on November 15 - 16; 5 on November 17 - 22; 8 on November 23 - 24; 10 on November 25 - 26; 5 on November 27 - 28; 8 on November 29, and 5 on November 30 - December 2.

This weekend is the CQ World Wide SSB DX Contest. The CW weekend is November 27 - 28. ARRL November CW Sweepstakes is next weekend, November 6 - 8.

Sunspot numbers for October 21 through 27 were 11, 28, 32, 46, 81, 95, and 91, with a mean of 54.9. The 10.7-centimeter flux was 81.9, 86.9, 86.8, 93.2, 100.6, 109.3, and 110.9, with a mean of 95.7. Estimated planetary A indices were 7, 4, 3, 4, 5, 5, and 3, with a mean of 4.4. Middle latitude A index was 9, 3, 2, 2, 4, 3, and 2, with a mean of 3.6.

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.

Friday October 29,

Good Morning served agencies, ARES members, and friends:

The Sun popped off an X-1 solar flare yesterday late-morning and the related CME is headed our way. The estimated time of arrival is sometime tomorrow with impacts continuing into Sunday.

Currently, we are being impacted by the radiation storm wave that proceeds the CME's arrival.

We are likely to see G2 level storm impacts with G3 possible in higher latitudes.

Impacts Expected (as of 0830 today)

Currently, the HF spectrum (below 30 MHz) is being negatively impacted. Amateur Radio operators and other users will see degraded propagation until the CME passes through the Earth this weekend. The radiation impacts will linger on for a few days into next week.

Higher frequencies are not predicted to be impacted at this time. However, specific effects on frequency bands can be difficult to predict sometimes. So it's a good idea to be aware of potential interference.

GPS users could see inaccurate readings during the period. Mainly for inexpensive consumer-based equipment.

Due to the high radiation, it is recommended that frequent flyers and pregnant women refrain from flying. The advice of a doctor is recommended for those who have medical implants such as pacemakers before their flight. Brief higher radiation levels can cause 'soft reboots' of exposed electronics such as these.

It looks like the new solar cycle is off to a strong start. Hopefully, at some point, we'll be able to see Auroral Light Waves in the near future.

RESOURCE LINKS

Space Weather Live - <https://www.spaceweatherlive.com/>

NOAA Space Weather - <https://www.swpc.noaa.gov/>

Bryan C Hoffman

Emergency Coordinator, Hamilton County ARES

Assistant Emergency Coordinator | Ohio Section ARES

(513) 509-4741 | hoffgroup@gmail.com

The national association for Amateur Radio®



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

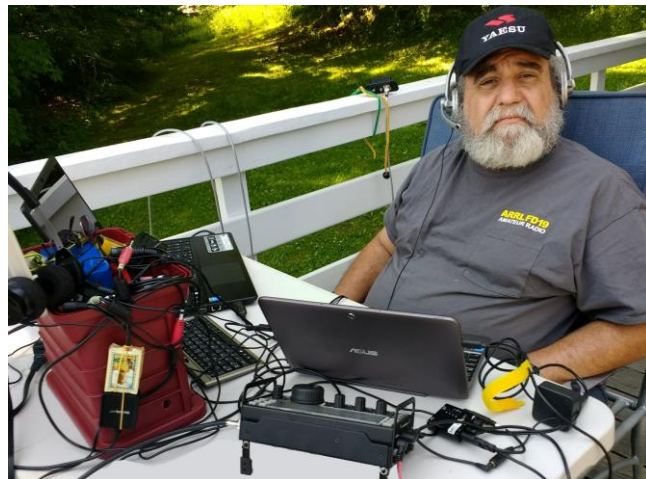


Portage County Amateur Radio Service (PCARS)

Monday, November 8th will be the PCARS Annual 50/50 for the benefit of the Portage County Center of Hope. The Center of Hope provides food to disadvantaged citizens of Portage County. We have given the clubs portion of the 50/50 to the Center of Hope every year since our first November meeting in 2006. In addition to our 50/50, we raise other donations from members and from the community. Last year our contribution exceeded \$10,000! We would really appreciate if you could help us out. You can get complete information from our latest newsletter available on the PCARS website at www.portcars.org. There are also PAYPAL buttons on the website where you can purchase 50/50 tickets, or make a contribution. If you would like further information you can contact PCARS President Nick – AC8QG at president@portcars.org. This is a REALLY BIG DEAL not only for PCARS, but especially for the families who benefit from it!



From the Section Youth Coordinator
Anthony Luscre, K8ZT - SYC
k8zt@arrl.net



Try Something New This Fall & Winter

School Club Roundup (SCR)

Before we get started on this month's topic, I want to share some photos of the School Club Roundup

(www.arrl.org/school-club-roundup) from Assistant SYC

Katie Campbell, KE8LQR. The School Club Roundup is held

twice a year with last week being the fall version. Here are some photos of the activity at Columbiana Schools' K8LPS. If you are part of a school club, consider getting on air for the next running of SCR February 14-18, 2022.





Fall

The frost is on the pumpkins and darkness is longer than daylight. Many of the joys of summer have faded but one Amateur Radio joy is just gearing up for winter-- 160 Meters. The so-called “Gentlemen’s Band” or “Top Band” thrives in winter with its decreased band noise from summer storms (QRN). Starting just above the Commercial AM Broadcast Band (570-1700 kHz) the 160 M band (1.8-2.0 MHz) is technically not even HF, it is a Medium Wave Band. This low frequency and long bandwidth mean that antennas are typically much longer than most other ham bands. The idea of needing a longer antenna discourages many Hams from trying 160 M. When I ask other AR operators whether they operate on 160, many often reply, “they have no room for effect antennas, there is too much noise, no one else is there, my signals are too weak, etc.”



Give It a Try and It Will Probably Work

Well, it’s time to trust the ether and give 160M a try no matter what your antenna situation, you might be surprised with your success. One of the reasons that you may be successful is that many 160 aficionados have excellent receiving antennas/systems that can dig out your puny signal. As I often say if you want to increase your chances of making contacts, especially with a less than ideal signal/antenna, there are ways to increase your odds. The first boost can come by operating during contests. There are more stations active and contact with your results in desired points for them. It doesn’t matter if you are not interested in contesting, just make sure you know the exchange you need to send them so they get their points (and you get your contact). The second way to increase your odds is to use the most effective modes for weak signals- CW and especially FT8. Most of the contests on 160 also tend to be CW-only contests, but there are exceptions including multi-band phone contests that include 160. FT8 is a great way to start your 160 operations. The ability of FT8 to facilitate contacts with weak signals is greatly enhanced. For more information on FT8 see my slideshow tiny.cc/ft8ft4 or one of my recorded talks tiny.cc/k8zt-p. The third way to increase your odds is to understand propagation and operate at the right times. Fall and Winter are the best times for 160. 160 also benefits from the de-ionization of the D layer during hours of darkness, so it is mostly a nighttime band for anything other than local contacts. There is also a phenomenon of Gray-line enhancement along the day-night line.

Antennas for 160 M

“Ok, maybe I’ll give it a try but how will I possibly fit an enormous antenna on my small suburban lot?” Yes, a dipole for 160 is over 250 feet long and should be suspended 130 feet high! The idea that comes first to most hams is “let’s use a vertical”, but a full-size vertical would be over 130 ft high. These numbers are impossible

for most hams, fortunately, there are ways around this problem. By using loading coils we can shorten these lengths. We can also use a combination of antenna types to accommodate 160 antennas in smaller spaces such as highly effective inverted L which is a combination of vertical and horizontal antennas. Some hams even load their HF towers to use as an antenna on 160. I personally use a sloper wire with loading coil along with my 50 ft. HF tower. The total length of the wire is 60 ft. This suboptimal antenna combined with my QRP (5 watts) signal definitely does not present much of a signal at receiving stations, but I have made many QSOs with this arrangement.

For more information on antennas:

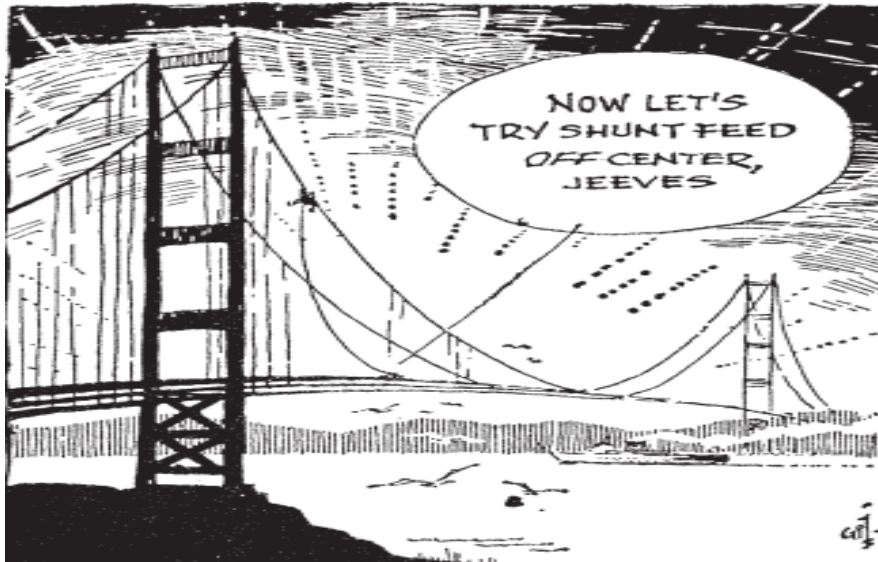
160M Homebrew & Limited Space Antennas

- [160 M Transmitting Magnetic Loop](#)
- [A 160 Meter Antenna for a Small Backyard](#)
- [Short Top Band \(160m\) Antenna](#)
- [A Reduced-Size Half Sloper For 160 Meters](#)
- [The "No-Excuses" K6MM Vertical Helical Wound 160M Antenna](#)
- [160m Short Vertical Loft Antenna](#)
- [Getting on 160 Meters on a Budget](#)
- [Low Band DX Antennas \(on a small lot\)- KY6R](#)
- [K2AV FCP: 5/16 Wave Single Wire Folded CounterPoise](#)

160 M QSOs K8ZT (All 5 Watts)				
	CW	SSB	FT8	Total
QSOs	8848	853	1974	11675
WAS	50	38	50	
DXCC	57	11	70	81
CQ Zones	19	21	7	24

Commerical 160M Antennas

- [DX Engineering 160 Meter THUNDERBOLT® Vertical Antennas DXE-160VA-1](#)
- [ALPHA DELTA DX-A 160-80-40 METER TWIN SLOPER](#)
- [Cushcraft MA160V 160 Meter Vertical Antennas MA160V](#)
- [MFJ-2990, 160-6M VERT.ANT., 43FT, 1500W,W/BALUN/MOUNT](#)



Popular Upcoming Contests with 160 M activity

Date (UTC)	160 M Contests	Mode	Type of Contest	Notes	Link
Oct 30-31	CQ World Wide SSB	Phone	Worldwide, multiband. One of biggest contests of the year. Exchange CQ Zone	A great chance to increase your 160 DXCC totals	https://www.cqww.com/
Nov 27-28	CQ World Wide CW	CW			
Nov 6-8	ARRL Sweepstakes CW	CW	US, multiband. One of biggest contests of the year. Complex exchange with serial number, state and year first licensed	A great chance to get Worked All States 160 M.	www.arrl.org/sweepstakes
Nov 20-22	ARRL Sweepstakes SSB	Phone			
Dec 3-5	ARRL 160-Meter Contest	CW	160 Only Contest. Exchange ARRL/RAC Section	A great chance to get Worked All States 160 M.	www.arrl.org/160-meter
Dec 18-19	Stew Perry Topband Challenge	CW	160 Only Contest. Exchange Grid Square. Points based on distance	Lots of activity. Distance and power factor in scoring	https://www.kkn.net/stew/
Jan 15-16	North American QSO Party, CW	CW	Multiband contest. NA only contest. Exchange Name and State	A great chance to get Worked All States 160 M.	https://ncjweb.com/naqp/
Jan 22-23	North American QSO Party, SSB	Phone			
Jan 29-31	CQ 160-Meter Contest, CW	CW	160 Only Contest. Exchange US State/DX CQ Zone	Increase 160M WAS & DXCC	https://cq160.com/
Feb 26-28	CQ 160-Meter Contest, SSB	Phone			
Feb 20-21	ARRL International DX CW	CW	Multiband Contest. Exchange US State/DX Power	Increase 160M WAS & DXCC	www.arrl.org/arrl-dx
Mar 6-7	ARRL International DX SSB	Phone			

That's it for this month; I hope to work you soon, maybe even on 160 Meters in one of the upcoming events. 73, Anthony, K8ZT (k8zt@arrl.net)

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

Cuyahoga Falls Amateur Radio Club (CFARC)

Next Laurel VEC session on 18 November. Please preregister at <https://cfarc-edu.org/registration/>. Note Laurel sessions are free. Copy of license not need if you per-register.

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 ARA directional loop antenna build

The amateur radio club of Athens county held their annual fall project build today (Sunday) at the Athens Red Cross.

Despite the occasional showers and drizzle, four bowtie antennae were completed. The kit was the Handi-Finder which is available for \$27 and free shipping for over ten units.

Several other kits were taken home by hams to complete at their leisure. The experimental kit is mainly used in FoxHunts, but can detect any carrier based transmission.

One Ham, a newly licensed General, had never built anything, but completed the kit with assistance, in just about 3 leisurely hours. She learned soldering, electronic components, braizing wire bending, and more skills, as well as meeting the club.

The next Athens county FoxHunt is set for two weeks, on Sunday Nov.7th at 2pm. Registration for the free event is on the club repeater frequency 15 minutes before the hunt.

This will allow several more hams to complete their kit and practice before game time.



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

First Three Months of BLACK SWAN Net Operation

C. Matthew Curtin KD8TTE

BLACK SWAN NET began operations 1 July 2021, picking up from the retiring Buckeye Net Mixed. We've completed our first compilation of operating statistics and are now happy to share them.

Statistics are for the first three months of operation, July, August, and September of 2021. Our normal operating schedule is thrice weekly, with operations covering daytime and evening conditions, work on 60m (5 MHz Interoperability Channels) and 80-75m (3.5-3.9 MHz), and operations by voice, digital, and CW emissions. The net is also able to stand up for additional events, whether training or real-world, as needed.

Operating Time	16 hours 8 minutes
Stations Reporting In	211
Unique Stations	21
Net Operation and Stations	

Flash (Z)	0
EMERGENCY	0
Immediate (O)	13
Priority (P)	16
Welfare (W)	0
Routine (R)	167
Messages by Precedence	

80-75m	25
60m	27
Net Control Sessions by Band	

80-75m Phone	15
80-75m CW	1
80-75m NBEMS	27
60m Phone	24

60m CW	2
60m NBEMS	24
Winlink Relay	16
Net Operations by Band by Mode	

Thank you for your participation!

BLACK SWAN Net exists for the purpose of training and preparing radio operators for successful communication in emergencies up to and including "black swan" style events. Working in conjunction with Internet-coordinated training and discussion on the QTC Mailing List and efforts such as the QSP Newsletter and Weather Alert Project 21, the Net is the center of HF operations for this training program.

BLACK SWAN Net: <https://www.blackswancomex.org/net>

QTC Mailing List: <https://groups.io/g/QTC>

Weather Alert Project: <https://www.blackswancomex.org/2021/weather-alert-project-21>

QSP Newsletter: <https://www.blackswancomex.org/2021/qsp>

73

DX This Week – 160M Absorption

Bill AJ8B (aj8b@arrl.net, @AJ8B, or www.aj8b.com)

CWOPs Member #1567

The spots this week included Algeria, Anguilla, Belize, Canada, Cayman Islands, Ceuta & Melilla, Costa Rica, Croatia, Curacao, Dodecanese, England, Fed. Rep. of Germany, France, Gabon, Galapagos Islands, Georgia, Gibraltar, Greenland, Guernsey, Hawaii, Hungary, India, Iran, Ireland, Italy, Lesotho, Luxembourg, Malawi, Mali, Malta, Martinique, Mauritius, Netherlands, Norfolk Island, Northern Ireland, Oman, Poland, Portugal, Puerto Rico, Qatar, Reunion Island, Rodriguez Island, Scotland, Serbia, Slovak Republic, Slovenia, South Africa, Spain, Svalbard, Switzerland, Tanzania, Thailand, The Gambia, Trinidad & Tobago, Wales, and Western Sahara. Quite an assortment! This brings the total number of unique entities spotted this year to 210! It is only going to get better from now on, so keep at it!



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The 3Y0J Bouvet DXPedition is gaining momentum and clubs and individuals around the world are stepping up to make a donation. The target for this DXPedition is November of 2022. This has been considered the most difficult to reach and the most remote place on the planet. There have been several issues raised by local DXers the past few weeks about the viability of such a DXPedition such as the type of vessel and the

landing/off loading logistics. I have contacted Ken, LA7GIA and Adrian, KO8SCA directly and have answers to both of these concerns. I will be publishing those answers in the next two installments of DX this Week. If you are not sure, donate. If things don't go through, it is likely you will get a refund. If, as I expect, it will go through as expected, you will be supporting one of the most ambitious DXpeditions ever undertaken. And most likely get an ATNO!

They have a very interesting funding idea setup. For a one-time donation of \$26, you will receive invitations to all of the Zoom Meetings they are holding so that you can follow their Journey to Bouvet, get news updates, talk to operators, Q7A, etc. (from www.3y0j.no)

They have other enticements listed for additional donations. You can find the info on <https://www.3y0j.no/individualdonors>

The group has a new video up, showing their planned island QTH, volcanic rock 250 feet above the black sand beach Zodiac landing zone. That's where the antennas and tents will go. Getting the gear on the beach and up the hill will be a challenge. They are rehearsing in Norway presently. There will be more video updates including interviews with the operators. <https://youtu.be/YaMaR21075U>

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For this newsletter, I wanted to pass along some very technical details about propagation. As is the usual case, the information is provided by K9LA, Carl. Thank-You Carl for allowing me to reprint this.

Absorption At Night Carl Luetzelschwab K9LA

It is well known that the D region during the daytime causes a significant amount of absorption for electromagnetic waves on the lower bands (160m and 80m). The result of this is limited daytime distances via skywave (but it is not as limited as you might think - for example, on 160m stations with decent antennas running 1kW can routinely communicate out to 1000 km or so during the day).

At night, the D region electron density decreases significantly. Does this mean there isn't any absorption at night on the low bands? The answer is "No", there is still absorption (albeit less), as the absorption process moves up in altitude at night to the lower E region.

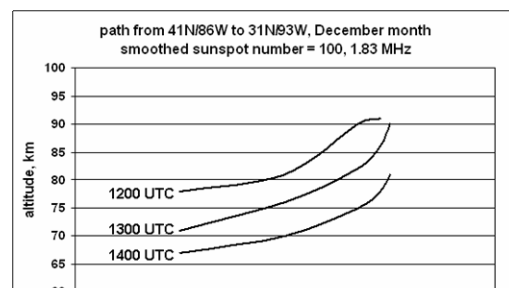
The figure to the right shows this. It's the cumulative absorption of an up- going wave on 160m for a one-hop path that is parallel to the terminator. The top curve is at 1200 UTC when the path is in darkness. The middle curve is at 1300

UTC when the path is along the terminator. The bottom curve is at 1400

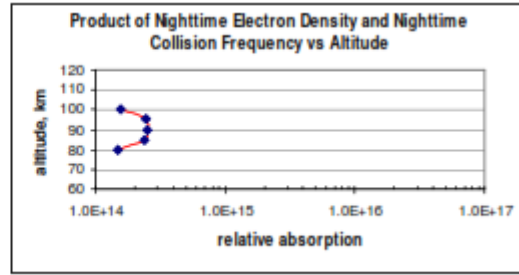
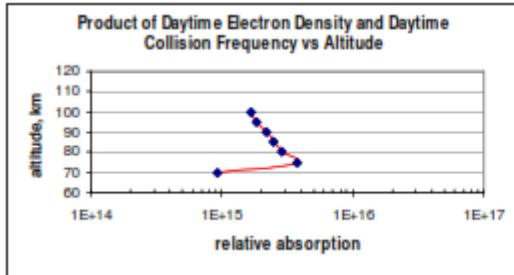
UTC when the path is in daylight.

Most of the absorption in the sunlit ionosphere (1400 UTC) occurs at D region altitudes (70-80 km). Most of the absorption in the dark ionosphere (1200 UTC) occurs at lower E region altitudes (80-90 km). Although the D region ionization is minimal at night, absorption in the lower E region still impacts propagation on the lower bands. This plot indicates that absorption levels out at around 10dB per hop on 160m in the dark ionosphere. In daylight it's still going up after 10dB.

Why does absorption move up in altitude at night? Absorption is proportional to the electron density times the electron-neutral collision frequency. The electron density decreases as altitude decreases, while the collision frequency increases as altitude decreases. Thus, the product of these two functions roughly maximizes



when they cross, and the maximum altitude for the most part follows the electron density as the collision frequency is fairly constant regardless of day or night. The following figures show typical products of electron density times collision frequency for day and night.



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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:

C5 - The Gambia - C5C is the callsign for F4AHV, F5NVF, M0NPT and F5RAV continuing to November 19. They'll be on 80-10 CW, SSB, FT8/4 and the QO-100 satellite and this coming weekend's CQWW SSB event. QSL direct to F5RAV. F4AHV is also ex-6W7RV and M0NPT is also known as 7X2TT.

ON – Belgium - OQ35EUDXF celebrates the 35 years of the EUDXF, the European DX Foundation. They will be active November 1-30. This one will be on SSB, CW, RTTY and FT8/4. QSL via ON6CC or LoTW, or go through Club Log OQRS for bureau cards.

4X – Israel - The "Land of Craters" program is activating four crater sites, 4X0ARF from Arif Craters; 4X0RMN from Ramon Crater; 4X0GDL from "the Large Crater"; and 4X0KTN from "the Small Crater." 4Z4DX, Dov, says the small crater is a geological erosion landform in the Negev Desert. It is five by seven kilometers. The operation is November 12-13 starting approximately from 10-10Z, 24 hours. Look for them on 80, 40, 30, 20, 17, 15, 12 and 10 SSB and 13cm QO-100, SSB, CW and FT8. QSL via 4X6ZM bureau or direct, plus eQSL and LoTW.

7Q – Maldives - November 1-30 is the 8Q7RM operation from Kandolhu Island, IOTA AS- 013. HB9SHD, Remo, is testing his setup at home in Switzerland in preparation, including the CrankIR antenna in the garden there. Having high SWR, he found some corrosion inside the "black box" and made a repair and that fixed the problem. He has bought a Yaesu FTDX- 10 for the trip and loves the receiver. He made some SSB QSOs, then worked New Zealand and Fiji on FT8. He says this operation will be mostly FT8, "some SSB and slow CW," 40-6, "possibly 80." He will be on the air several hours a day. QSL direct or bureau to his home QTH, or use Club Log OQRS or LoTW.

GM – Scotland - G6AD, Ady, will be operating from his campervan in Scotland as GM6AD from November 13-18, including a one day operation from Loch Ness on November 14th.

VU – India - VU2DSI, Datta, will once again be QRV with special call AU2JCB in celebration of the birth of Acharya Jagadish Chandra Bose the "Father of Wireless Communication" from November 19 to December 14.

His targeted transmit SSB frequencies are: 3710, 7040, 7150, 14210, 14250, 14310, 21235, 21310, 21350, 28545, 28510, 28490, 29700, 50800 and 51500 KHz. QSL direct to VU2DSI.

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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!

Nov. 10	RSGB Autumn Series, SSB	https://bit.ly/3p4eShW
Nov. 10	VHF-UHF FT8 Activity	www.ft8activity.eu/index.php/en
Nov. 13	FISTS Saturday Sprint	www.fistsna.org/operating.html#sprints
Nov. 13-14	10-10 Digital Fall Contest	http://bit.ly/1FrFeBc
Nov. 13-14	JIDX Phone Contest	www.jidx.org
Nov. 13-14	OK/OM CW DX Contest	http://bit.ly/19rrRjl
Nov. 13-14	SARL VHF/UHF Analogue Contest	http://bit.ly/H0lqQf
Nov. 13-14	Worked All Europe RTTY Contest	https://bit.ly/36ubggF
Nov. 13-15	AWA Bruce Kelley 1929 Memorial QSO Party	https://bit.ly/2FtzQEn
Nov. 13-15	CQ-WE Contest	http://cqwe.cboh.org/rules.html
Nov. 13-15	PODXS070 Club Triple Play Low Band Sprint	http://bit.ly/2Cq2yUA
Nov. 14	FIRAC HF Contest	www.firac.de/html/contest.html
Nov. 14-15	Fall Classic Exchange CW	www.classicexchange.org
Nov. 16	RSGB FT4 Contest Series	http://bit.ly/38xg9V7
Nov. 16-17	Fall Classic Exchange CW	www.classicexchange.org
Nov. 19	YO International PSK31 Contest	www.yo5crq.ro/Rules.htm
Nov. 20	Feld Hell Turkey Sprint	https://bit.ly/3asfcij
Nov. 20	RSGB 2nd 1.8 MHZ Contest CW	http://bit.ly/34wTLMo
Nov. 20-21	All Austrian 160M Contest	https://bit.ly/3fgsiUo

Nov. 20-21	LZ DX Contest	http://lzdx.bfra.bg/rulesen.html
Nov. 20-21	REF 160-Meter Contest	https://bit.ly/3iHzsQU
Nov. 20-21	SARL Newbie Party	http://bit.ly/H0lqQf
Nov. 20-21	ARRL EME Contest	www.arrl.org/eme-contest
Nov. 20-22	ARRL SSB Sweepstakes	www.arrl.org/sweepstakes
Nov. 21	FISTS Sunday Sprint	www.fistsna.org/operating.html#sprints
Nov. 21	Homebrew & Oldtime Equipment Party	www.grpcc.de/contestrules/hotr.html
Nov. 24	UKEICC 80 Meter Contest CW	https://bit.ly/2SDPqQQ
Nov. 25	RSGB Autumn Series, CW	https://bit.ly/3p4eShW
Nov. 27-28	CQWW DX CW Contest	www.cqww.com/index.htm

SB DX ARL ARLD043
ARLD043 DX news

This week's bulletin was made possible with information provided by 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.

KINGDOM OF ESWATINI, 3DA0. Lionel, ZS6DPL will be QRV as 3DA0LP from November 1 to 5. QSL via operator's instructions.

MALDIVES, 8Q. Remo, HB9SHD will be QRV as 8Q7RM from Kandolhu Island, IOTA AS-013, during November. Activity will be holiday style on the HF bands using some CW, SSB and FT8. QSL to home call.

THE GAMBIA, C5. Operators Jan Francois, F4AHV, Gerard, F5NVF, Luc, F5RAV and Abdel, M0NPT are QRV as C5C from Kololi until November 19. Activity is on 80 to 10 meters using CW, SSB, FT8, FT4, and Satellite activity on QO 100. QSL via F5RAV.

BAHAMAS, C6. Richard, NN2T is QRV as C6AHB from Bimini Island, IOTA NA 048, until to November 3. QSL to home call.

MOROCCO, CN. Special event station CN46MS is QRV until November 10 to commemorate the 46th anniversary of the so-called Marche Verte, or Green March. QSL via CN8WW.

MARTINIQUE, FM. Miguel, EA1BP is QRV as FM/EA1BP from October 27 to November 5. QSL to home call.

GALAPAGOS ISLANDS, HC8. Members of the Tifariti Gang/DX Friends are QRV as HD8R until November 7. Activity is with four active stations on 160 to 6 meters, including 60 meters, using CW, SSB, various digital modes, and on Low Earth orbit Satellites. QSL via EA5RM.

BRAZIL, PY. Members of the Sao Carlos Amateur Radio Club are QRV with special event call sign PV60CRASC during November to celebrate the club's 60th anniversary. QSL via PT2QP.

The Silent Key Memorial CW Contest and RSGB 80-Meter Autumn Data Series are scheduled for November 1.

The ARS Spartan Sprint, Worldwide Sideband Activity Contest and RTTYOPS Weeksprint are scheduled for November 2.

The Phone Fray, CWops Mini-CWT Test, VHF-UHF FT8 Activity Contest and the UKEICC 80-Meter Contest are on tap for November 3.

Please see October QST, page 75, November QST, page 79, 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!



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

Location: Delta, OH

Sponsor: Fulton County Amateur Radio Club

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

[Learn More](#)

OHIO'S



By the time you read this we are either ready to move into November or perhaps already there. Remember to go to the polls on Tuesday, November 2 and cast your ballot. This year's General Election is mostly a local one with seats for city and village council plus school board and township trustees up for election. And we can't forget all the local issues related to new and renewal tax levies, wet and dry issues and other things important to our local communities. Also important to our ham communities are our local elections to select those who will lead us in the coming year. Although some clubs have already held elections, a large number will be doing so in the coming weeks. So when you get the opportunity, be sure to cast your ballot. And another thought, instead of just sitting back and observing how your local club runs, why not become more involved and run for an office? Clubs throughout the nation are looking for good people to hold office.

During their October 19 meeting, the **Athens County ARA** announced the results of the just held election. The officers for the coming year are: Eric McFadden, WD8RIF, will return as the President; Paul Schultz, WD8SCV is the Vice President; Drew McDaniel, W8MHV, will continue to hold the club funds as Treasurer; Eric McFadden, WD8RIF, continues as Secretary; the Webmaster will be Jeff Slattery, N8SUZ who will also serve as the Packet Node Trustee and Eric McFadden, WD8RIF is to be the Repeater Trustee.

On October 21 the **Milford ARC** held elections during their monthly business meeting. Ron Brooks, AC8MA, was re-elected President for the coming year. Mike Desmond, W8BEI, will become the new Vice President while Raleigh Sizemore, AB8KG, returns as the Treasurer. Brooks asks any current licensed MARA member interested in serving as the Club Secretary please contact him. He also thanks Michael Brun, KE8PLM, and Jack Purdum, W8TEE, for their past service as club officers.

Lawrence County's **Southern Ohio ARA** membership held their elections at their October 18 business meeting. The following individuals were elected to lead the Club in 2022: President-Tim Nicely, AC8VQ, was re-elected President; Eddie Jenkins, N8URU, is Vice President; the Secretary will be James Reneau, N4REN, and Dave Bruce, KD8NYN, is Treasurer. Jerry Lockhart, W8HIC, will continue as the ARES-Emergency Coordinator with James Rowe, N8TVO, and Eddie Jenkins as his Assistant Emergency Coordinators. Keith Brooks, N8DKB, is to be the Two Meter Net Manager with James Rowe as the Assistant. Mike Love, WB8YKS, continues as the Club's excellent Public Information Officer.

Ted Jacobson, W8KVK, tells of a new ham in Lawrence County. Let's welcome KE8TCX, Robert Stephenson, of the South Point area into our mist. I understand he has already joined the **Southern Ohio ARA** along with Jack Ferguson, KE8TCM. Welcome!

In our last column we told the news of the passing of Bill 'Vondon' Applegate, KJ8I, of Peebles. Now we learn of the death of his son Tim, N8JSZ, only days later on October 10. Tim was also a resident of Peebles and along with his father placed the KJ8I repeater in Peebles on the air. Our sympathies go to his wife Laura and their daughters as well as his mother Peggy and sister Tammy.

The **Grant RC** requests anyone with a ticket(s) for the now cancelled Georgetown hamfest to return the stubs so you are entered in the drawing of the prizes that were to be awarded at the hamfest. Those stubs should be sent to Al Norris, W8UJM, 4217 Bardwell-Greenbush Road, Mt. Orab, OH 45154 in time to be received for the November 6 drawing.

The **Athens County ARC** announces the cancellation of the Wednesday 6 meter AM net. Therefore the net will return to the original once-a-week format of Sunday evenings. The net meets at 5 PM on 50.4 MHz. Anyone with 6 meter capabilities is welcome to check in.

Also on the cancellation list, we understand the **Clinton County ARA**'s Third Wednesday Tech Group gatherings are cancelled until further notice due to unforeseen circumstances.

Weather caused plans for the **Tri-State ARA** to start the erection of a new tower at the Museum of Technology and Radio over the October 30 weekend were cancelled and will be rescheduled when conditions are better.

Earlier in the month, this column had a tip from Brent Wells, N4BDW, about using toothbrush travel cases to protect telephone type connectors on microphones when transporting rigs in Pelican or Apache type cases. Brent tells us his hint has been accepted by the ARRL to be published in an upcoming edition of the ARRL's new ham oriented magazine *On the Air*. Congratulations Brent! We'll be looking forward to seeing the article in print. Brent is the Secretary of the **Greater Mason County ARA** across the Ohio River in Maysville, KY.

The **Highland ARA** will hold a Laurel VE Test Session on Saturday morning, November 20. It will be held at the Highland County EMA Office on North High Street in Hillsboro and will start at 9 AM. According to VE Team Leader Tom Mongold, Jr., KD8LSD, pre-registration is required as is an FRN to take any element. You can pre-register at <https://www.signupgenius.com/go/10c0d48aoac23a7fec16-hara6>. There is no fee to take a test for either a first time license or a license upgrade.the Ohio River in Maysville, KY.

On November 27 the **Cambridge ARA** will assist with the annual Cambridge Holiday Parade. Presently they need several members to step forward to help between 2 and 6 that day. On the 29th the **Southern Ohio ARA** will assist the Ironton Lions Club with the city's annual Christmas Parade. SOARA provides assistance with parade lineup and communications. Members helping are to assemble at the car wash near Wendy's at 5 PM.

The **Portsmouth RC** Two Meter Net and the **River Cities ARC**'s Tri-State Two Meter Net have recently changed the starting time of their nets in order to coincide with shorter daylight hours. The nets are now nightly (except Sunday) at 8 pm on the KG4DVE 146.94 machine in Ashland, KY, the N8QA 145.39 repeater in South Webster and the N8QA 444.60 repeater in Portsmouth. The **Highland ARA** Monday Night Two Meter Net will be changing the starting time for their weekly net on November 8. Because of the time change, the net will be called to order at 8 pm.

The next **Athens County ARA** Fox Hunt will be on Sunday, November 7. It begins with registration on the 145.15 repeater. The actual hunt begins on 146.40 simplex at 2 PM. Paul Schultz, WD8SCV is to be the Fox.

Milford ARC President Ron Brooks, AC8MA, lets us know the Club will not meet in November because the normal meeting date falls on the date of the Milford Harvest Parade.

It's time now to firm up amateur radio coverage for the upcoming Bobcat Trail Marathon at Burr Oak State Park on November 13 according to Jeff Slattery, N8SUZ. A Full Marathon will start from the park's lodge at 8 AM and a half-marathon will start at 8:30 from Dock #4. Although most posts have been filled, Jeff says some locations are still in need. Those assisting should be on station about 7:30. Anyone who can commit to assisting the Club is urged to contact Slattery at 740-592-6124 or 740-541-0972. The **Athens County ARC** has provided communications for these events for several years.

Well that does it for another column. In the meantime, send any news worthy items for inclusion in the 40 South column to jlevo@cinci.rr.com. Until next time stay safe, healthy and remain 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

How about going to <http://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!



“Have you ever worked the International Space Station?”

From the last Poll: *“If you had to make a QSO in CW (even if really slow) could you do it?”*

58 responses, it broke out to 80% yes and 20% no. Nice to hear!

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://arrl-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://arrl-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@arrl-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@arrl-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://arrl-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!