



# *“January 17<sup>th</sup> 2022 Edition”*

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

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





## CQ CQ CQ de WB8LCD

### Get Thee to a HamFest!

Last week I talked about Dayton Hamvention. Let me repeat myself – you gotta get there.

This week (this morning) I attended the Sunday Creek Amateur Radio Federation hamfest in Shade, OH. I'd say it was just a bit off the beaten track, but well worth the trip. Would you believe that leaving NE OHIO I had to drive a short way through W Virginia to get to a Fest in SE OHIO? It's true. Including everyone, I'd say that there were about 80 there this morning. Storm warnings probably cut that down quite a bit from what it could have been. My photos above were take just as things were getting set up.

Although not a big fest, there was a lot of really neat equipment for sale there. A lot of items found new homes. For the most part, I think both Sellers and Buyers were happy with the results. Last week I mentioned the "Fraternity" of Ham Radio. It's possible to be a Ham, yet *not* be a member of the fraternity. The fraternity part comes from relationships. While a lot of your Ham Radio relationships come from your membership in a local club, you can greatly expand that circle of relationships by joining (or at least visiting with) other clubs, and, by traveling around the state and getting to know the folks at the hamfests. I know that happened at Shade for me this morning, and I know it happened for others too.

But, just like making a whole bunch of Q's, you've got to put yourself in the right position, or location for it to happen. For the Q's, you've got to be in the chair, in front of the radio and on the air. For personal

relationships you've got to put yourself where your target market (other hams) is. That's club meetings, operating events and hamfests for the most part. And small / mid-sized fests are particularly good places to be able to get to talk with and get to know other hams. It doesn't matter whether it's big or small club, activity or hamfest – Hams are some of the nicest



people you'll meet just about anywhere. And unlike in the world at large, most are willing and able to help you be successful in your chosen hobby. Not only are hams generally pretty nice guys, but most are also guys with a pretty good knowledge of a wide range of subjects. (I use the word "guys" for both men and women)

In the past year of travelling around the state I have also been gaining a greater appreciation for all that OHIO has to offer. It's a pretty diverse state when it comes to terrain. It's got big cities and urban areas, suburban and rural areas. I enjoy it all. A lot of times when I travel, I ask the GPS to avoid toll roads and highways. I like driving 2-lane blacktop. When I left Shade this morning to head home, I got to see some backroads in Athens County. It took me on about a 15 – 20 mile backroads trip back to the interstate. Beautiful country, even this time of year. I'm talking gravel roads! My final photo here from my trip home was an all wooden, covered bridge I went through. You don't get that experience just anywhere.

73,  
Tom Sly – WB8LCD  
ARRL OHIO Section Manager  
330-554-4650

---

*National News*  
*(from ARRL and other sources)*

# ARLB001 W1AW 2022 Winter Operating Schedule

## Morning Schedule:

Time	Mode	Days
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

## Daily Visitor Operating Hours:

1500 UTC to 2045 UTC - (10 AM to 3:45 PM EST)

## Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	DIGITAL	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	DIGITAL	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

## Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675 28.0675 50.350 147.555  
DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095 28.095 50.350 147.555  
VOICE: 1.855 3.990 7.290 14.290 18.160 21.390 28.590 50.350 147.555

## Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM  
CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM  
CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each

practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to [w1aw@arrl.org](mailto:w1aw@arrl.org).

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 2045 UTC (10 AM to 3:45 PM EST). Be sure to bring a reference copy of your current FCC amateur radio license.

The weekly W1AW and monthly West Coast Qualifying Runs are sent on the normal CW frequencies used for both code practice and bulletin transmissions. West Coast Qualifying Run stations may also use 3590 kHz.

The W1AW Operating Schedule may also be found on page 86 in the January 2022 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.

---

## ARRL Foundation to Create Club Grants Program

A new [ARRL Foundation](#) Club Grants program, funded by a grant from Amateur Radio Digital Communications ([ARDC](#)), will make \$500,000 available to radio clubs. The program will provide up to \$25,000 for worthy club projects. Requests for more than that will be referred back to ARDC.

[ARRL](#) has long recognized that it is in the best interests of amateur radio to encourage and support amateur radio clubs. Clubs historically have recruited, licensed, and trained new radio amateurs and have provided the community setting for radio amateurs to continue their education and training. The new Club Grants program will help clubs to more easily provide and expand their important services.



Beginning in April 2022, amateur radio clubs will be able to apply for these grants by filling out a simple form on the ARRL website. The ARRL Foundation will evaluate the grant proposals. The Foundation was established in 1973 to advance the art, science, and societal benefits of the amateur radio service by awarding financial grants and scholarships to individuals and organizations in support of their charitable, educational, and scientific efforts.

A key criterion for determining awards will be how the project will advance amateur radio in the grantee's community. In most cases, this process should take no longer than 90 days.

ARRL Foundation President David Woolweaver, K5RAV, shared his enthusiasm about this new program. "This program will substantially contribute to the growth of amateur radio clubs and their efforts to expand and support the amateur radio community," he said.



ARDC is a California-based foundation that awards grants to projects and organizations that follow amateur radio's practice and tradition of technical experimentation in both amateur radio and digital communication science. ARDC Executive Director Rosy Schechter, KJ7RYV, noted that this program will streamline the process for getting club projects funded, so that clubs can get started on these projects more quickly.

"We're very excited about working with the ARRL Foundation on this program," said Schechter. "We can't wait to see what kinds of creative things clubs will do with these grants." -- *Thanks to ARDC*

---

**ARRL The National Association for Amateur Radio®** is pleased to announce the hiring of Josh Johnston, KE5MHV, into the role of Director of Emergency Management. Johnston is from Ozone, Arkansas, and comes to ARRL with 16 years of experience as the Director of Johnson County (Arkansas) Department of Emergency Management. He holds an Extra class Amateur Radio license as well as being an **ARES®** Emergency Coordinator, Volunteer Examiner, and ARRL-registered Instructor. Johnston is also certified in FEMA NIMS as well as CISA AUXCOMM Communications Unit Leader (COML). He holds a Bachelor of Science in Emergency Administration and Management from Arkansas Tech University.

"I am happy to welcome Josh to the ARRL staff and to add his talent and knowledge to our team," said ARRL CEO David Minster, NA2AA. "His contribution will help ARRL continue to support our dedicated volunteers of the Amateur Radio Emergency Service, improve opportunities for training, and advance our relationships throughout the EmComm community." With extensive experience in inter-agency cooperation and planning, Johnston is well versed in the different aspects of emergency management and leading both professional and volunteer operators. He has experience in communications planning and execution in the field and at the local and state level. As an Arkansas Master Certified Emergency Manager and past Board Member of Arkansas Emergency Management Association, where he served as president for 2 years, Johnston has experience working with government and agency representatives as well as being boots-on-the-ground in the field.

Johnston will be based at ARRL's headquarters in Newington, Connecticut and will be working with staff and member-volunteers, and coordinating with the ARRL Board's new Emergency Communications and Field Services Committee (EC-FSC)

---

## ARES Resources

- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Word\]](#)
- [ARES Plan](#)
- [ARES Group Registration](#)
- [Emergency Communications Training](#)

The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

How to Get Involved in ARES: Fill out the [ARES Registration form](#) and submit it to your local Emergency Coordinator.

---

## ARLS002 Eight-Satellite TEVEL Mission Launch on January 13

The TEVEL mission, which consists of eight satellites carrying amateur radio FM transponders, was launched on January 13 at 1525 UTC on the SpaceX Falcon 9 Transporter-3 mission, which also carries AMSAT-Spain's (AMSAT-EA) EASAT-2 and HADES satellites. (Please see 2022 Space Bulletin ARLS001 for more information about the AMSAT-EA satellites.)

The TEVEL satellites were developed by the Herzliya Science Center in Israel.

All eight satellites will use the same frequencies, as long as their footprints overlap, and only one FM transponder will be activated at a time. Beacon transmissions will be on 436.400 MHz (9,600 bps BPSK). The uplink frequency of the FM transponders is 145.970 MHz, and the downlink frequency is 436.400 MHz. The satellites were built by eight schools in different parts of Israel.

**February 10, 2022**  
DoubleTree by Hilton Hotel Orlando at SeaWorld  
**February 11–13, 2022**  
Central Florida Fairgrounds and Expo Park

*reDiscover*  
**RADIO**  
at the 2022 ARRL National  
Convention and Orlando Hamcation®



**Emergency Communications Academy is Coming to Orlando in February!**

A panel of nationally recognized subject matter experts and trainers are conducting an emergency communications workshop in Orlando, Florida, on February 10, as part of the 2022 ARRL National Convention. This all-day Training Track will be held at the DoubleTree by Hilton Orlando at SeaWorld and includes a seat at the ARRL National Convention Luncheon, featuring a keynote by ARRL CEO David Minster, NA2AA.

Presentations will feature current protocols, techniques, and responsibilities for the modern volunteer radio operator serving partner public safety entities. Additional topics covered include the Amateur Radio Emergency Service® (ARES), an overview of Amateur Radio response during disasters, the ARRL Emergency Communicator Position Task Books, emergency power, and so much more.

Join Track Leader Rick Palm, K1CE; Lead Instructor Gordon Gibby, KX4Z, and presenters Mike Walters, W8ZY; C. Matthew Curtain, KD8TTE; Helen Straughn, WC4FSU; Leland

Gallup, AA3YB; Arc Thames, W4CPD; Christine Duez, K4KJN; Josh Johnston, KE5MHV; Earl McDow, K4ZSW; Jeff Capehart, W4UFL, and others for this important and informative day of learning. Hurry, register now at [arrl.org/expo](http://arrl.org/expo).

**Register Today!**

**DX Engineering is the Official Sponsor of the 2022 ARRL National Convention Program.**



## Ohio ARES Simplex Contest Summary

Hi all! Thanks to those who participated in this year's ARES Simplex-Plus contest! The universal reaction was that everyone had fun!

We received 48 logs, of those 5 were "rover" stations. On average 8 counties were contacted by each station with two reporting 18 counties, one rover reporting 22, and one fixed station reporting 34! Thirteen stations were in double-digits!

Joe Wigal, W8JTW, was one station heard across the state- here's why:

*Operated From N8OJ Tower Site in Washington County 2 meter antenna height 190 foot ran 280 watts. 6 meter antenna height 150 feet ran 100 watts. Worked 27 Ohio Counties and 7 in West Virginia 34 total. Worked 8 of the 10 Ohio ARES Districts, Worked 5 of the 10 WV ARES Districts. Furthest contact air miles Marietta Ohio Washington County to Wapakoneta OH Auglaize County 163 air miles on 2 meter FM., Was fun Looking forward to next year.*

Some other comments:

*I was operating fixed and it was fun to follow the Rovers to various counties. I made contacts with Rovers in 6 counties.*

*First time participant. Nice way to spend a Saturday afternoon monitoring 2m, 6m, and giving points to the rovers & fixed stations I could hear and get back to. Added to my calendar for 2023 too.*

*Great participation in NW Ohio. Worked 5 rovers! Furthest contact was 107 miles on 6 meter FM. Had a great time, lots of really good operators in our area!*

*It was lots of fun, taught me a lot about my equipment, working through pile-ups and propagation challenges, making new friends and connecting with old ones and more.*

*I operated as a rover in Mahoning, Trumbull, Portage, and Summit counties. Another excellent event this year, thanks to all who help organize and participate!*

The simplex bands, especially 52, stayed busy the entire period for the contest! It was great to hear the bands come alive. Next year, look for a revised scoresheet for your submissions. It will be available on the [ohsimplex.org](http://ohsimplex.org) website.

Stan – N8BHL

---

## ***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](mailto: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**

### **Alliance Amateur Radio Club**

AARC(W8LKY) will not be operating normal activities in the month of January 2022.

We have **anceled** our January VE Session - January 22, 2022.

---

## **CARS**

VE testing from CARS - Cuyahoga Amateur Radio Society - at Elmwood Recreation Center, 6200 Wisnieski Parkway in Independence, Ohio 44131 Time: 9:15 AM (Walk-ins allowed) Always the 2nd Sunday of the odd month. Go to CARS [www.2cars.org](http://www.2cars.org) for detailed map of location. Call Metro W8MET 216-520-1320 for details

## **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](mailto:exams.w8bi@gmail.com)

## **Highland Amateur Radio Association**

Next testing session is February 19<sup>th</sup>. 9:00 am – 12:00 am at the Highland County EMA 1487 N High St. Hillsboro, OH 45133. You can get more information and register for your exam at:

<https://www.signupgenius.com/go/10C0D48ADAC23A7FEC16-hara7>

VE's are also needed for the exam, please contact John Levo: [jlevo@cinci.rr.com](mailto:jlevo@cinci.rr.com)

**The Lancaster and Fairfield County Amateur Radio Club (LFCARC)** hosts exam sessions at the FAIRFIELD County EMA, 240 Baldwin Dr in Lancaster Ohio, 43130, on the first Saturday each month at 10:00 am. Please visit our website at <http://www.k8qik.org> for exam dates on our calendar and navigate to our Learning Center/Taking the Exam link for information and requirements. Our VE team looks forward to serving the Amateur Radio community in Central Ohio and across our nation. We have an experienced team that has tested candidates from Alaska, Florida, Texas and points in between! Contact me at [ve\\_testing@k8qik.org](mailto:ve_testing@k8qik.org) to register.

**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](http://www.milfordhamradio.org)

## **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](http://www.portcars.org) . If you have any questions, don't hesitate to contact me at [KB8UUZ@gmail.com](mailto:KB8UUZ@gmail.com)

**US Coast Guard Auxillary** January 22, 2022 at 0900 (local) at the Shrine Building, 6401 Fruit St. Huntsville, OH 43238. For more information contact Sam Holland – KD8JJJ at 937-592-2412 or Michael Robinsons – KI0DE at 614-744-4469 [msrobin1980@gmail.com](mailto:msrobin1980@gmail.com)

## **Sunday Creek Amateur Radio Association Hamfest 2022 January 16**

The Sunday Creek Amateur Radio Association sure had one whale of a great hamfest on 2022 January 16. Although it was little in comparison to many other hamfests, yet it was in one of the nicest facilities blessed with welcoming volunteers -- persons who made sure you felt welcome, not only with their friendliness but also with their home cooked food -- of any I have attended in a long time.

The vendors seemed motivated to sell, and some excellent bargains were struck. It was definitely worthwhile to attend whether you went to sell or to buy. What else made it so special was the interaction with others of the amateur radio "fraternity", some newly licensed. One gentleman with whom I conversed was not a spring chicken, yet he recently earned his Technician class license and upgraded to General class. Another suggested that until the hamfest grows to occupy the whole basketball court, maybe bringing out a basketball for shooting hoops would increase attendance. Sunday Creek Amateur Radio Association can ruminate on that idea!

As soon as I and my traveling buddy entered the building we were greeted by Sunday Creek Amateur Radio Association members. Soon afterward one of the volunteer ladies from the kitchen invited us to partake of sausage gravy and biscuits along with pastries (several home made selections), coffee, and an assortment of other drinks. For lunch they prepared hot dogs with the traditional fixings: mustard, catsup, and onions. One of the non-traditional fixings was a treat from one of the volunteer ladies: her delicious relish!

At lunch time, some other home made treats appeared.

The Shade Community Center is marvelous, we were inside in a well lighted and comfortably heated area. Sunday Creek Amateur Radio Association is to be commended for supporting such a community center. In my talk with a trustee and some of the amateur radio association members, I learned a little of how much the Shade community rallied to obtain the building. There were plenty of tables and chairs for vendors, and the aisles were big. The room for the Volunteer Examiner test session was, you might say, purposely made for conducting the examinations.

The kitchen, staffed by Shade community volunteers, is wholly commercial grade. Plenty of tables and seating was available for a relaxing meal. There was no price asked for the food they prepared; however, there was a donation can. (All of the shotguns must have been in use for weddings, as there was no one standing over the can to make sure you donated an appropriate amount.) By the way, the whole facility was spick-and-span.

The second floor has a library managed by a retired library science teacher. If you have any amateur radio publications, you might consider donating them to this library. Check with Sunday Creek Amateur Radio Association. Yoga classes and other activities are held their, too.

Plenty of parking is available, so that is not an issue there.

This is a hamfest I would like to see grow. In conclusion, I strongly urge you to consider attending Sunday Creek Amateur Radio Association's hamfest next year, especially if it is held in the Shade Community Center. (Vendors, you missed a jim-dandy opportunity!)

Kudos also go to your American Radio Relay League Section Manager, Tom Sly, WB8LCD, for the three hour plus drive he made to represent you and the American Radio Relay League. As usual, he had a nice display of material, much of which was freebies. If you have questions about what the league is doing to support amateur

radio and attract newcomers to ham radio, find these leaders at your hamfest, they are a treasure trove of information. They are usually easy to spot. Most of us will probably never know the extent of the energy and personal expense they endure to contribute to this hobby.

Grant Powell

K8BCI

k8bci@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](mailto:WB8LCD@ARRL.ORG)

---

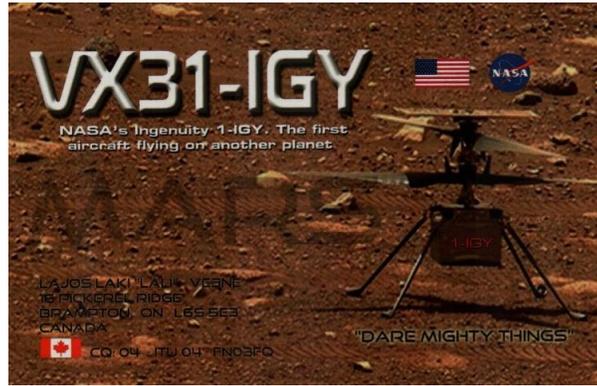
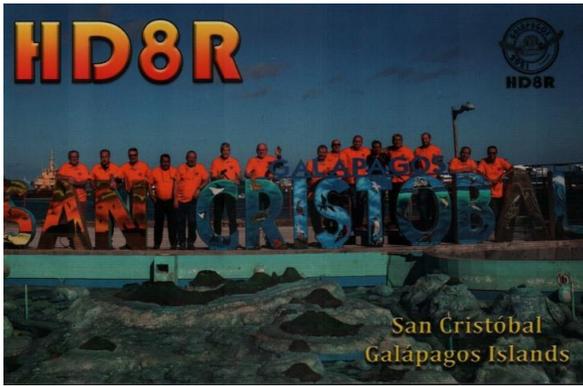
## DX This Week – Solar Number 1

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

Aland Islands, Alaska, Antigua & Barbuda, Argentina, Australia, Barbados, Belgium, Belize, Bermuda, Bonaire, Brazil, Bulgaria, Canada, Canary Islands, Cayman Islands, Chile, Colombia, Costa Rica, Croatia, Cuba, Curacao, Czech Republic, Denmark, Ecuador, England, Falkland Islands, Fed. Rep. of Germany, Finland, France, Ghana, Grenada, Italy, Jamaica, Japan, Madeira Islands, Mexico, Netherlands, New Caledonia, New Zealand, Northern Ireland, Norway, Panama, Peru, Poland, Puerto Rico, Scotland, South Africa, Spain, St. Kitts & Nevis, St. Martin, Uruguay, US Virgin Islands, Venezuela, and Western Sahara.



I received several nice cards this week including HD8R – DXPedition to San Cristobal, Galapagos Islands and a commemorative card from the NASA Ingenuity 1 Mars based aircraft. Let me know what you worked and what you have received!



## DAH DIT DIT DIT DAH DAH DIT DIT DIT DAH

Each year I like to start off with a review of what you need to know to work DX. This week and next we will review Solar Numbers. K9LA, Carl Luetzelschwab, a leading expert on the topic, crafted an article on Solar Numbers. I have reprinted it below with Carl's permission.

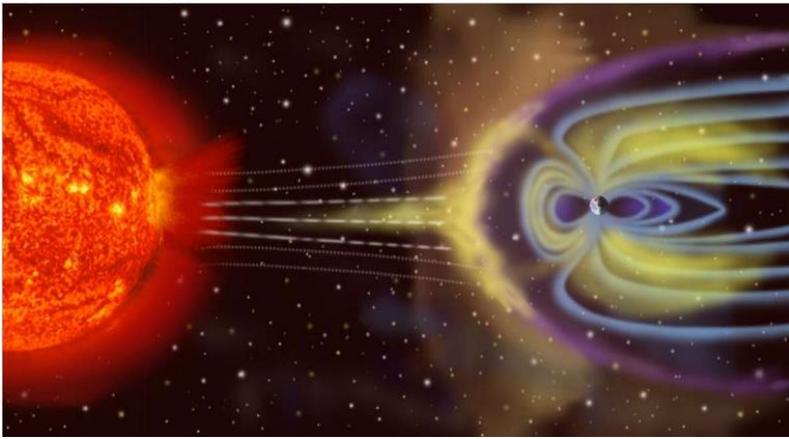
### Solar Numbers – What they Mean Part 1:

*By Carl Luetzelschwab, K9LA*

The sun emits electromagnetic radiation and matter because of the nuclear fusion process. Electromagnetic radiation at wavelengths of 100 to 1000 Angstroms (ultraviolet) ionizes the F region, radiation at 10 to 100 Angstroms (soft X-rays) ionizes the E region, and radiation at 1 to 10 Angstroms (hard X-rays) ionizes the D region. Solar matter (which includes charged particles--electrons and protons) is ejected from the sun on a regular basis, and this comprises the solar wind. On a "quiet" solar day the speed of this solar wind heading toward Earth averages about 400 km per second.

The sun's solar wind significantly impacts Earth's magnetic field. Instead of being a simple bar magnet, Earth's magnetic field is compressed by the solar wind on the side facing the sun and is stretched out on the side away from the sun (the magnetotail, which extends tens of earth radii downwind). While the sun's electromagnetic radiation can impact the entire ionosphere that is in daylight, charged particles ejected by the sun are guided into the ionosphere along magnetic field lines and thus can only impact high latitudes where the magnetic field lines go into the Earth.

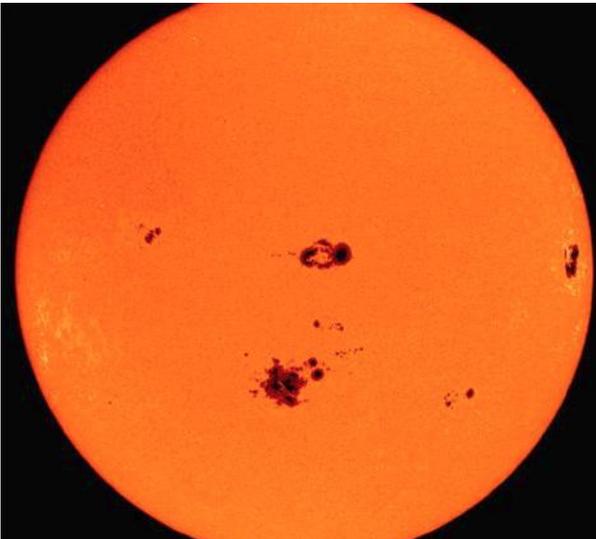
Additionally, when electromagnetic radiation from the sun strips an electron off a neutral constituent in the atmosphere, the resulting electron can spiral along a magnetic field line (it spirals around the magnetic field line at the electron gyrofrequency). Thus, Earth's magnetic field plays an important and critical role in propagation.



*The Sun's Magnetic Field Meets the Earth's Magnetic Field - Wikipedia*

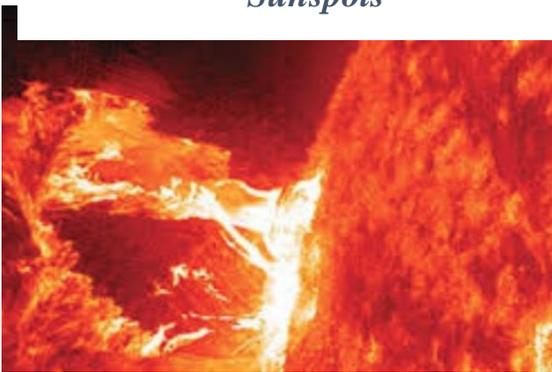
Variations in Earth's magnetic field are measured by magnetometers. There are two measurements readily available from magnetometer data--the daily A index and the three-hour K index. The A index is an average of the eight 3-hour K indices and uses a linear scale and goes from 0 (quiet) to 400 (severe storm). The K index uses a quasi-logarithmic scale (which essentially is a compressed version of the A index) and goes from 0 to 9 (with 0 being quiet and 9 being severe storm). Generally, an A index at or below 15 or a K index at or below 3 is best for propagation.

Sunspots are areas on the sun associated with ultraviolet radiation. Thus, they are tied to ionization of the F region. The daily sunspot number, when plotted over a month time frame, is very spiky. Averaging the daily sunspot numbers over a month results in the monthly average sunspot number, but it is also rather spiky when plotted. Thus, a more averaged, or smoothed, measurement is needed to measure solar cycles. This is the smoothed sunspot number (SSN). The SSN is calculated using six months of data before and six months of data after the desired month, plus the data for the desired month. Because of this amount of smoothing, the official SSN is one-half year behind the current month. Unfortunately, this amount of smoothing may mask any short-term unusual solar activity that may enhance propagation.



*Sunspots*

Sunspots come and go in an approximate 11-year cycle. The rise to maximum (4 to 5 years) is usually faster than the descent to minimum (6 to 7 years). At and near the maximum of a solar cycle, the increased number of sunspots causes more ultraviolet radiation to impinge on the atmosphere. This results in significantly more F region ionization, allowing the ionosphere to refract higher frequencies (15, 12, 10, and even 6 meters) back to Earth for DX contacts. At and near the minimum between solar cycles, the number of sunspots is so low that higher frequencies go through the ionosphere into space. Commensurate with solar minimum, though, is less absorption and a more stable ionosphere, resulting in the best propagation on the lower frequencies (160 and 80 meters). Thus, in general, high SSNs are best for high-frequency propagation, and low SSNs are best for low-frequency propagation.



*Solar Flare*

Most of the disturbances to propagation come from solar flares and coronal mass ejections (CMEs). The solar flares that affect propagation are called X-ray flares due to their wavelength being in the 1 to 8 Angstrom range. X-ray flares are classified as C (the smallest), M (medium size), and X (the biggest). Class C flares usually have minimal impact to propagation. Class M and X flares can have a progressively adverse impact to propagation.

flares usually have minimal impact to propagation. Class M and X flares can have a progressively adverse impact to propagation.

The electromagnetic radiation from a class X flare in the 1 to 8 Angstrom range can cause the loss of all propagation on the sunlit side of Earth due to increased D region absorption. Additionally, big class X flares can emit very energetic protons that are guided into the polar cap by Earth's magnetic field. This can result in a polar cap absorption event (PCA), with high D-region absorption on paths passing through the polar areas of Earth.

DAH DIT DIT DIT DAH DAH DIT DIT DIT DAH

CQDX CQDX CQDX CQDX CQDX CQDX CQDX CQDX CQDX

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:

**HR – Honduras** - AD8J, John, gives more details of his upcoming February 12-26 operation as HR9/AD8J from Guanaja Island (NA-057), Honduras. He will be running 100 watts into wire antennas for activity on 80-10 meters, including the WARC-79 bands, on CW, FT8 and some SSB. During the ARRL International DX CW Contest he expects "a big all band effort" on 80 through 10 meters. For confirmations he prefers LoTW as he will be uploading "at the end of each week and right after the contest". With sufficient postage you can QSL direct to AD8J. He will not be using eQSL's, QRZ confirmations or Club Log.

**S7 – Seychelles** - "I am new to the radio hobby and still learning a lot", says S79BMK, Beverly. She just passed her Foundation license, which has authorization on all the HF bands running 20 watts. She is located on Mahe Island.

**JD1/O - Ogasawara Islands** - JE1XUZ, Sam, plans to visit Ogasawara again for business, this one February 12-15. If the plan holds, he will be on the air as XE1XUZ/JD1, QRV on HF SSB, CW and FT8. Any activity will be fit around his work obligations.

**XE – Mexico** - To commemorate the 120th anniversary of Playa del Carmen City - Quintana Roo, Mexico XE3N, Zalo, is using special call 6F6F from January 1 to November 14, 2022. Activity will be on SSB, FT8, FT4 and RTTY on 7 through 50 MHz. During major contests he will be active. QSOs will be uploaded to Club Log and LoTW. QSL via EA5GL. A website is currently under construction at <https://6f6f.amateurradio.mx>

**TU - Ivory Coast** - Members of the Czech DXpedition group have announced plans for their TU5PCT DXpedition to the Ivory Coast in early February of this year. The team will include OK1BOA, Petr; OK1FCJ, Petr; and OK6DJ, David. Plans are to arrive on February 4th. They will begin a limited operation as they build up the station on February 5th and 6th with full operation expected between February 7th and 12th. They will dismantle their stations on February 13th and depart the same day. The three-man team will have a K3, TS-480, SunSDR2DX, SunSDR2QRP, two Juma amplifiers, one Expert amplifier and a 300-watt amp. For antennas they will decide their 160-meter antenna if the location allows. They will use verticals on 80, 60, 40 and 30 meters. Two Spiderbeams will be used for 20, 17, 15, 12 and 10 meters. Activity will be on SSB, CW, RTTY

and FT8 on 1.8 through 50 MHz Listen for TU5PCT to be transmitting on or near the following targeted frequencies:

CW - 1832, 3545, 5353, 7032, 10105, 14025, 18079, 21025, 24903, 28018 and 50095 KHz

SSB - 3790, 7185, 14185, 18150, 21280, 24935, 28450 and 50150 KHz

FT8 - 1840, 3563, 5357, 7071, 10144, 14090, 18108, 21080, 24923, 28080 and 50313 KHz

RTTY - 3563, 7045, 10142, 14080, 18099, 21080, 24911 and 28080 KHz

QSL cards for TU5PCT go to OK6DJ, OQRS and LoTW.

DAH DIT DIT DIT DAH DAH DIT DIT DIT DAH

# CONTEST CORNER

Below is the “Periodic Table of Contests” courtesy of Icom and CQ Magazine. This can be downloaded from the CQ Magazine website. It lists the major contests each weekend with appropriated keys as to the type of contest.

[https://cq-amateur-radio.com/cq\\_highlights/2021-cq/2021-12-cq/PeriodicTable-ICOMhalfspad.pdf](https://cq-amateur-radio.com/cq_highlights/2021-cq/2021-12-cq/PeriodicTable-ICOMhalfspad.pdf)

**PERIODIC TABLE OF SELECT AMATEUR RADIO CONTESTS 2022**

Start Day (UTC) -1 Start Time (UTC) 2 End Day (UTC) End Time (UTC)  
Contest Name Select Contest of weekend as chosen by ICOM

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1 Straight Key Night	5 NA Sprint CW	6 5 ARRL DX SSB	6 2 SP Polish DX	3 7 7QP/N/DE/ New England QSO Parties	8 4 Tisza Cup CW	5 2 Marconi Memorial HF	3 6 NAQP CW	7 3 CWops CW Open	3 1 California QSO Party	2 5 ARRL SS CW	7 2 ARRL 160
8 ARRL RTTY Roundup	9 12 CQ WPX RTTY	13 14 NA Sprint RTTY	14 9 JIDX CW	10 14 CQ-M DX	15 11 ARRL June VHF	13 9 IARU HF	10 13 WAE CW	14 10 WAE SSB	11 8 Oceania CW	9 12 WAE RTTY	13 10 ARRL 10
15 NAQP CW	16 19 ARRL DX CW	20 19 Russian DX	20 16 COMM DX	17 19 Contest University Dayton Hamvention	22 18 All Asian CW	19 16 CQ WW VHF	17 20 NAQP SSB	21 17 WANJ/NH/TX QSO Parties	18 15 Worked All Germany	16 19 ARRL SS SSB	21 17 RAC Winter
22 NAQP SSB	23 25 CQ 160 SSB	27 26 CQ WPX SSB	27 23 SP DX RTTY	24 28 CQ WPX CW	29 25 ARRL Field Day	26 23 ARRL Field Day	24 27 WW Digi	28 24 CQ WW RTTY	25 22 CQ WW CW	23 26 CQ WW CW	27 23 Happy Holidays
28 CQ 160 CW	30 CQ 160 CW		30 Florida QSO Party	1 Florida QSO Party		30 31 RSGB IOTA			29 30 CQ WW SSB		

Multimode CW Digital  
 off-the-air SSB VHF/UHF

## ARLD002 DX news

This week's bulletin was made possible with information provided by LU5AG, VE7KW, 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.

MAURITIUS, 3B8. Ray, F5UKV will be QRV as 3B8HH beginning around January 20. Activity will be on

80 to 2 meters, and possibly 160 meters, using CW and some SSB. Once his station is completely installed, he will also use PSK and RTTY. QSL via bureau.

KENYA, 5Z. Barring any COVID-19 restrictions, Ferdy, HB9DSP is QRV as 5Z4/HB9DSP from Malindi until January 27. Activity is on 20, 15, and 10 meters using SSB and some FT8. QSL via LoTW.

GUADELOUPE, FG. Operators Pascal, F1MNX, Pierre, F1TCV, Michel, F5LRL, Didier, F6BCW and Keith, VE7KW will be QRV as TO6S from Les Saintes, IOTA NA-114, from January 20 to February 1. Activity will be on 160 to 6 meters using CW, SSB, RTTY, FT8 and FT4 with two stations active. QSL via F6KJS.

SCOTLAND, GM. Special event station GB2KW is active near Inverness until January 28 using vintage equipment. QSL via LoTW.

ALASKA, KL7. Fred, KB4DMQ is QRV as KL7FBI from Shemya Island, IOTA NA-037, until January 24. Activity is on 40 meters using FT8. QSL to home call.

ARGENTINA, LU. Members of AMSAT Argentina will be QRV as LU7AA from January 15 to 23 to commemorate the launch of Satellite LUSAT, LO-19, 32 years ago. Activity will be on the HF bands using CW, SSB, and FT8. QSL direct.

SEYCHELLES, S7. Beverly, S79BMK is a new operator and QRV from Mahe Island, IOTA AF-024. She is active on the HF bands.

SWEDEN, SM. Members of the Skoevde Amateur Radio Club are QRV with special call SK50EI during 2022 to celebrate the club's 50<sup>th</sup> anniversary. QSL via bureau.

TURKEY, TA. Members of the Turkish Amateur Radio Association are QRV with special call sign TC60TRAC during all of 2022 to celebrate the club's 60th anniversary. QSL via the bureau.

MEXICO, XE. Zalo, XE3N is QRV as 6F6F during all of 2022 to celebrate the 120th anniversary of Playa del Carmen City, Quintana Roo. QSL via EA5GL.

VIET NAM, XV. Eddy, XV1X has been QRV on 40 meters using FT8 beginning around 1100z. QSL via QRZ.com.

INDONESIA, YB. Agus, YB1TDL/4 and Budi, YC1RQZ/4 will be QRV from Rakata Island, IOTA OC-262, from January 15 to 20. They will be active on 40, 20, 15, and 10 meters using SSB and FT8. QSL direct to HA3JB.

The Run for the Bacon QRP CW Contest, K1USN Slow Speed Test, OK1WC Memorial, Worldwide Sideband Activity Contest, RTTYOPS Weeksprint, QRP 40 Meter CW Fox Hunt, Phone Fray, CWops Mini-CWT Test, VHF-UHF FT8 Activity Contest, Mini-Test 40 CW, Mini-Test 80 CW and CWops Mini-CWT Test are all scheduled for January 17 to 19.

Please see January QST, page 76, 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!

\*\*\*\*\*Starting in December we will be listing all the upcoming 2022 Hamfests! And, there are a bunch already. Stay tuned.\*\*\*\*\*



## Ohio Hamfests

2022

03/12/2022 - [MOVARC Hamfest](#)  
 Location: Bidwell, OH  
 Sponsor: Mid-Ohio Valley Amateur Radio Club  
[Learn More](#)

03/13/2022 - [Winter Hamfest](#)  
 Type: ARRL Hamfest  
 Sponsor: Northern Ohio Amateur Radio Society  
[Learn More](#)

03/20/2022 - [Toledo Mobile Radio Association Hamfest and Computer Fair](#)  
 Location: Perrysburg, OH  
 Sponsor: Toledo Mobile Radio Association  
 Website: <http://tmrahamradio.org>  
[Learn More](#)

<p><b>04/09/2022 - <a href="#">Sixty-Sixth Cuyahoga Falls Amateur Radio Club Hamfest</a></b>  <b>Location:</b> Cuyahoga Falls, OH  <b>Sponsor:</b> Cuyahoga Falls Amateur Radio Club, Inc.  <b>Website:</b> <a href="http://www.cfarc.org/hamfest.php">http://www.cfarc.org/hamfest.php</a>  <a href="#">Learn More</a></p>	<p><b>04/24/2022 - <a href="#">Athens Hamfest</a></b>  <b>Location:</b> Athens, OH  <b>Sponsor:</b> Athens County Amateur Radio Association  <b>Website:</b> <a href="http://www.ac-ara.org/">http://www.ac-ara.org/</a>  <a href="#">Learn More</a></p>
<p style="text-align: center;"><b>05/20-22/2022 - <a href="#">Dayton Hamvention</a></b>  <b>Location:</b> Green County Fairgrounds, OH  <b>Sponsor:</b> Dayton Amateur Radio Association  <b>Website:</b> <a href="https://hamvention.org">https://hamvention.org</a>  <a href="#">Learn More</a></p>	
<p><b>06/04/2022 - <a href="#">FCARC Summer Hamfest</a></b>  <b>Location:</b> Wauseon, OH  <b>Sponsor:</b> Fulton County Amateur Radio Club  <b>Website:</b> <a href="https://k8bxq.org/hamfest">https://k8bxq.org/hamfest</a>  <a href="#">Learn More</a></p>	<p><b>07/09/2022 - <a href="#">Mansfield Mid Summer Trunkfest</a></b>  <b>Location:</b> Mansfield, OH  <b>Sponsor:</b> Intercity Amateur Radio Club  <b>Website:</b> <a href="http://www.w8we.org">http://www.w8we.org</a>  <a href="#">Learn More</a></p>
<p><b>07/17/2022 - <a href="#">Van Wert Hamfest</a></b>  <b>Location:</b> Van Wert, OH  <b>Sponsor:</b> Van Wert Amateur Radio Club  <b>Website:</b> <a href="http://W8FY.ORG">http://W8FY.ORG</a>  <a href="#">Learn More</a></p>	<p><b>08/13/2022 - <a href="#">Cincinnati Hamfest</a></b>  <b>Location:</b> Owensville, OH  <b>Sponsor:</b> Milford ARC  <b>Website:</b> <a href="https://CincinnatiHamfest.org">https://CincinnatiHamfest.org</a>  <a href="#">Learn More</a></p>
<p style="text-align: center;"><b>09/25/2022 - <a href="#">Cleveland Hamfest</a></b>  <b>Location:</b> Berea, OH  <b>Sponsor:</b> Hamfest Association of Cleveland  <b>Website:</b> <a href="http://www.hac.org">http://www.hac.org</a>  <a href="#">Learn More</a></p>	

# OHIO'S



**January 16, 2022**

As I start preparing my first column in the New Year, I'm looking out the window over a very small portion of this vast area referred to as Ohio's South 40. Most people now have their holiday decorations down and stored for the year. I've even seen evidence of some stores getting Valentine merchandise on their shelves. One regional home improvement store is even beginning to shelf garden seeds. However the TV weatherman's forecast for the weekend reminds us we still have several weeks of winter weather ahead. And what better hobby than ham radio can one have that gives one an enjoyable as well as educational way to pass the time when the weather restricts one to their home? So instead of spending time in front of the "boob tube", turn on that radio, give out a call and warm up the airwaves. Who can tell, you might even make a new best friend.

The first ham radio activity for the New Year was the **Highland ARA's** traditional New Year's Net that for over 30 years has welcomed in the New Year. Following ringing in 2022, Net Control Ken Lightner, KE8JEL, checked in 28 over the air stations and one via an email. In addition to Highland County area hams, stations from Chillicothe, Waverly and Kettering participated in the activity.

You know the New Year is starting off on the right foot when you open your emails and find a flyer for Ohio's first hamfest of the year. That hamfest happened on Sunday, January 16 when the **Sunday Creek ARF** held their annual hamfest. In past years the event had been held at Nelsonville, however this year it had a new home South of Athens at the Community Center in Shade, Ohio.

The first meeting of the **Tri-State ARA** for the New Year is scheduled to occur on Tuesday evening, January 18 at the Museum. However anticipated weather conditions may cause a cancellation or other change in plans. Members will be notified by email of any changes.

Nominations for the 2022 officers of the **Grant RC** will take place during their monthly meeting this Thursday evening, January 20 at the ABCAP Building in Georgetown. Ken Klousterman, KD8FKU, states the meeting will begin at 7 pm. The actual election will be held at the February 17 meeting. Klousterman also reminds all the 2022 membership dues are now being accepted.

On January 13 the **Southwest Ohio DX Association** met at Hunter's Pizzeria in Franklin. Plans are underway for the annual DX Dinner® during HamVention® and the always well-attended HamVention DX Forum®.

January 29 marks the next meeting of the **Cambridge ARA** at the county government building in downtown Cambridge. During the meeting nominations for the Club's 2022 officer slate will be taken. The actual elections will be held at the February 26 meeting.

Another great piece of news is that planning for the August 13 Greater Cincinnati Hamfest is well under way. The event is sponsored by the **Milford ARC** and will be held from 8 until 2 at the Clermont County Fairgrounds in Owensville. A Yaesu FT-DX10 will be awarded at the event this year.

For some time the **Clinton County ARA** held a monthly “Last Saturday” breakfast gathering at a restaurant in New Vienna. At times they would be joined by the **Highland ARA** or clubs from Fayette or Brown Counties to plan Field Day or other joint club activities, but mostly just to socialize. Early last week, the rear of the building the restaurant shared with another business collapsed and seriously damaged the entire structure. Best guess is the building (dating from the 1850s) may have to be completely taken down.

Andy Riley, W8VKJ, a member of the **Athens County ARA**, became a silent key on December 28 at a nursing home in The Plains. Services have been held in Athens. 2021 ended with the passing of long-time **Highland ARA** member Howard Falk, KE4NIU. Services for Howard were held in Germantown.

Ted Jacobson, W8KVK, tells us 2022 brings three new Technicians to the region. James Lambine, of Batavia is now KE8TPV and Maineville’s Austin Selden is KE8TQJ. Matthew Cochren from Pleasant Plain becomes KE8TQK and adds another TQK suffix to the area. He joins two other area hams sharing the TQK suffix who are K8TQK, Bob Mathews from Bainbridge and N8TQK, Bob Miller of Hillsboro.

**Milford ARA** President Ron Brooks, AC8MA, invites all amateurs within the coverage area of the Club’s 147.345 (123hz tone) repeater to test their trivia skills each Wednesday evening at 7:30. That is when their weekly trivia net airs as a way to keep MARA members and other hams in touch with each other.

The **Milford ARC** also reminds folks of their monthly free VE testing on the third Thursday of each month. Sessions are at the Miami Township Civic Center, 6101 Meijer Drive, Milford. With the FCC to start charging a license fee, this is an excellent time to get that first ticket or upgrade. **Highland ARA** VE Team Leader Tom Mongold, Jr., KD8LDS, says the Club will conduct a Laurel VE test session on Saturday morning, February 19 at the Highland County EMA Office in Hillsboro. Although walk-ins will be accommodated if time and space allow, pre-registration is requested. Other tests will be given in the following communities in the next month: January 22-Circleville; February 5 and 8-Lancaster; February 12-Springfield and February 23 in Middletown.

Year-end meetings of several clubs throughout the South 40 coverage area included several individuals receiving special recognition for their club efforts and in one case a national award. At the recent meeting of the **Southwest Ohio DX Association**, the Club’s prestigious W8OK Award was bestowed upon John Comella, N8AA, by Club President Tom Inglin, NR8Z. At their year-end awards banquet the **Cambridge ARA** announced Sonny Alfman, W8FHF, was the recipient of the Club’s Amateur of the Year Award “for his efforts to boost members’ morale during the pandemic lockdown” by creating a daily Cabin Fever Net. The Pizza Cottage in Athens was the site for the **Athens County ARA**’s annual holiday gathering. At the event Club President Eric McFadden, WD8RIF, presented Paul Schulz, WD8SCV, with the NC8V Memorial Trophy which is awarded to the club member achieving the highest score in the recent ARRL 10-meter Contest. ARRL Eighty **Highland ARA** members and guests welcomed Great Lakes Director Dale Williams, WA8EFK, and Vice Director Scott Yonally, N8SY, to the Club’s annual Christmas Dinner Party where they presented John Levo, W8KIW, with the ARRL Board’s Phil McGan Silver Antenna Award for John’s efforts to promote amateur radio throughout the region. Congratulations to all of these individuals on their awards.

The Museum of Radio and Technology in Huntington, WV is holding a raffle for a completely restored 1953 H500 Zenith Transoceanic Shortwave Receiver as a fund raiser for the Museum. Tickets are \$5 each or six for \$25. The drawing of the winning ticket will be on February 5. Museum members have tickets for sale or you may contact Mark Killen, KD8QIG, (740-550-3778) for more information and to purchase your chances. For those of you who have never visited the Museum, since 1991 it is has been a splendid place to visit, spend some

time and relive the glory days of wireless and early radio history. It is open weekends. There is no admission charge, but donations are appreciated. You can visit them on the Web at [www.mrtwv.org](http://www.mrtwv.org) for a virtual tour.

Former **Highland ARA** President Floyd Colville, KD8SIK, passed away on Sunday afternoon at the Chillicothe VA Hospital.

It's been learned of two deaths within the **Tri State ARA** family. On Thursday Nancy Ritchie, WB8GSD, passed away at a Huntington, WV hospital following a lengthy illness. Private services will be Wednesday in Barboursville, WV. Club Secretary Bud Cyr's wife Susan passed early Saturday morning following a brief hospital stay. Arrangements are incomplete at this time.

A special shout out is directed to a good number of Southern Ohio region hams who took the time to participate in the recent Ohio Simplex Test. South 40 participants ranged from Marietta and Noble County to Springfield and Greene County and then on to the Greater Cincinnati area. A Clinton County station tells of being floored with his 110 mile contact over hilly terrain. Another wonders about a second operating event during mid-year and on a weekday evening when perhaps more people would be willing to participate. For another it called attention to a problem with his antenna system that needs investigated. Again, thanks to all that participated for a short time or for its entire length.

John Levo, W8KIW, [jlevo@cinci.rr.com](mailto: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 would really like to hear from as many of you as possible on this one. While I know what I think the answer is going to be, the bigger the sample, the more accurate a survey like this is likely to be.

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!



***Do you Think you could enlist at least 1 new ham to our ranks in the next 12 months?  
Yes / No Would you set that as a Personal Goal for 2022? Yes / No***

From the last Poll: ***How much do you think you will spend directly on Ham Radio in 2022?  
A) Less than \$100? B) \$100 - \$2000 C) \$2000+ ?***

We had 76 Responses. 11.84% Said less than \$100. 78.95% said \$100 to \$2000 and 9.21% said \$2000 or more. Using some of what I feel are conservative assumptions, the Amateur Radio “Market” in the US could be as high as \$500 million in 2022 for new and used Amateur related expenditures. Wow! (Disclaimer: Don’t run off and make any investment decisions based on this non-scientific guesstimate. Your mileage may vary.)

---

### 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](mailto: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](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](mailto: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](mailto: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!*