

NET ACTIVITY:
KEN: MONDAY 3.972.5 2330Z
KDN: TUESDAY 3.587 0030Z
KYN CW: DAILY 3.537 0100Z
STATEWIDE DMR: 7PM Cst -
Thursday Evening DMR: TG3121
STATEWIDE DStar 6PM Cst
REF56B
KY FUSION NET RM 40806
SAT 7 PM CST

SM: w4nho@arrl.net
SEC:
STM: kc4bqk@arrl.net
ACC: vacant
TS: n9ky@arrl.net
OOC: gary.k7ek@gmail.com
PIO: w0qi@icloud.com
KYHAM: admin@kyham.net

KENTUCKY NEWS
KENTUCKY SECTION MANAGER
STEVE MORGAN W4NHO
OWENSBORO KY 42301
HAPPENING OF THE MONTH
FEBRUARY 2019



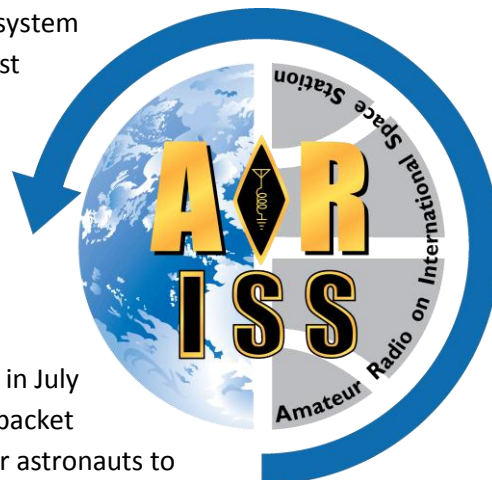
ARISS PACKET SYSTEM

The Amateur Radio on the International Space Station (**ARISS**) packet system is back on the air with new equipment. The replacement gear arrived last November and had been awaiting unpacking and installation. ARISS hardware team members on the ground were able to locate a functional duplicate of the old ISS packet TNC module that had been in operation for 17 years and had become intermittent. Crew members installed the new module on February 2; the RF gear remains the same.

The ISS packet system, located in the ISS *Columbus* module, went down in July 2017, but it unexpectedly came back to life the following summer. The packet system operates on 145.825 MHz. ARISS is an official back-up system for astronauts to talk with Mission Control in the unlikely failure of the station's primary communication systems.

In 2017, hams relayed nearly 89,000 packet messages via the ISS; response to its recent return has been enthusiastic, ARISS said.

Contribute to the all-new radio system set to launch this year via the ARISS website. For more information, contact ARISS-International Chair **Frank Bauer, KA3HDO**, or ARISS ARRL Delegate **Rosalie White, K1STO**. — *Thanks to ARISS*



OUTGOING KY SEC REMARKS

By Mr Ron Goodpaster AG4TY

2019 is the beginning of changes in KY ARES. First of March the revised SOP for KY ARES will be released for review by the ECs and DEC's. It will include changes to appointed position responsibilities and expectations. It will also include the new 3 tiers ARES member positions and the requirements for each.

The January KY ARES conference calls were very productive with the KY Lieutenant Governor Jenean Hampton K5EIB participated in one of the calls and reaffirmed her commitment to KY ARES.

We are in the planning stages for an 8 state DHS exercise planned for May 2019 with KY taking the lead role. More to come on this later.

The KY ARES leadership conference calls continue to be held each month. If you are a KY ARES member and would like to get information to the statewide leadership group, you should get in contact with your Emergency Coordinator.

There are still many counties without an Emergency Coordinator or even a ARES team, if you are interested in this contact Steve, or go to kyham.net and fill out an application.

I am interested in having several localized ARES conferences across the state this year and would enjoy coming to your area or club meeting. If you are interested you can contact KY SM Steve Morgan at w4nho@arrl.net.

NOTE: I think I speak for all ARES members in the state and thank Ron for accepting the challenge during this short endeavor as KYSEC. Before anyone casts the first stone, until you have walked in the footsteps as an SEC or SM, think before you release your stone. Our heartfelt gratitude to Mr. Ron Goodpaster and good health to you and your family in this next chapter of life.

Welcome Scott Co EC Cecil Hardin, K5CPT

KY CLUB OF THE MONTH BULLITT CO AMATEUR RADIO CLUB

BY Buddy Sohl KC4WQ

The Bullitt Amateur Radio Society was founded in 1978 and has enjoyed a healthy membership for 41 plus years. We support two repeaters in the Louisville metro area, both with excellent coverage. The 146.70 machine operates a Yaesu Fusion system and is capable of both analog and digital operation. The 443.70 repeater is currently a Fusion System as well. Our 2m repeater is available via Echolink on node 343205.

Our club sponsored the first ARRL Big Project school in the Commonwealth at St Aloysius Shepherdsville. Several of our students received their licenses and have gone on to achieve many good things. Sadly, the school was shuttered in 2013 and the project came to a close after a 10 year run. The club has also over the years sponsored an occasional tech in a weekend class boasting a 90% passing rate.



Each year, the Bullitt ARS sponsors a well attended field day exercise at the Pioneer Village City Hall in northern Bullitt County. Our operation consists of a CW and SSB station nominally with VHF and specialty modes occasionally. We have placed well in our chosen category for many years finishing in the top three many times and always have a good feedbag for members and guests alike.

There is a great diversity among our members. A recent club survey shows there are as many new hams as there are old timers. We have implemented a mentoring program where new hams are 'paired' with someone a bit longer in the tooth. This makes it easier to share the knowledge with the new ham and helps keep our amateur radio traditions and knowledge alive and well.

The Louisville National Weather service has



relied on the spotter network in the metro area utilizing reports through our 2 meter repeater for nearly 40 years. Louisville area hams will respond to the NWS office during needed times to operate the ham station on site and relay information immediately to NWS staff.

The Bullitt club hosts an informative web site at www.ky4ky.com providing links to tons of club information and links to amateur radio knowledge bases around the globe. Dues paid members also receive an email alias and the club operates an email reflector to share club information. Our club also assists the Greater Louisville hamfest committee by providing 2m talk-in and volunteer help for the annual Louisville hamfest each September.

Some of our club activities are occasional special event stations, once activating the Edison House in downtown Louisville and providing a fast scan TV station at the annual Boy Scout-a-Rama at Churchill Downs. Other events are the annual club picnic and foxhunt, ARRL field day and Winter Field Day and Christmas brunch in early December. This year we put Santa on the air for a couple of hours on December 22.

Each year our club recognizes a member for outstanding service to the amateur community. For 2018 the club recognizes John Morton WA4UMR for his service to other members in the club as a mentor and friend.

We are an ARRL affiliated Special Service Club.
Interested in BARS? Email president@ky4ky.com



Figure 1 Santa - Lex KD4EWT



WHY CW

By Ray Smith WB4ZDU

Every ham operator has at least one or two favorite aspects of this great hobby that they find particularly exciting and enjoyable. For some it is homebrewing, or DXing, or rag chewing, and for others it may be the latest mode or something more exotic or technical in nature. There is something for almost everyone. While the list may not be endless, it certainly is large.



So, why CW? What does it have to offer the young and the young at heart that the Iphone (or Android) doesn't? We have all heard that CW gets through when other modes can't. While that is certainly part of the enjoyment of CW and is very important when handling traffic, for me there is more to the Why in Why CW.

To me, the answer is part mystery and part challenge, with certainly a dash (pun intended) of history. It all adds up to fun. The challenge is in learning something new. It is like listening to a foreign language that I knew nothing of and then gradually, letter by letter, understanding what I was hearing. Suddenly, those speed demons that were sending at 5 words per minute didn't seem so fast after all. While the cell phone is a marvelous invention and can certainly do things that CW can't, it has never given me the rush or excitement that learning and operating CW does. Maybe reaching 10 or even 15 words per minute isn't impossible after all!

By now you may be saying it's hard work, or requires practice, or it is no longer required by the

FCC so why bother. The short answer is not really, yes, and true. It's work but no harder than learning to use your Iphone. In fact it is probably easier. And sure it requires practice, but what doesn't? Who can pick up their cell phone and instantly know the ins and outs of emailing or setting up a network? Try practicing 10 minutes each day and you will be amazed at how quickly you learn CW. There are numerous software programs to help you learn it. Just google "CW code practice," or go to You Tube, or listen to W1AW code practice sessions. Pick one of the many options available to learn CW and stick with it. You will be amazed how quickly you pick it up. Remember, the goal is to learn and have fun, not

be a speed demon. The challenge is learning something new and then using it. The fact that it is no longer required by the FCC means that you're learning it for yourself, not because someone said you had to.

Once you begin to understand CW the real fun begins. You can use CW to talk to others, whether they be in the same city or far, far away. Sure, you can use your Iphone to call someone you know or want to speak with in a distant place, but try using that cell phone to search and search to hear an operator in a far away place like Mongolia, and then finally, after hoping the other operator will hear you, having him or her send your call letters and a signal report, and then being able to learn something about the other operator, what he or she does and where they live. Or using CW in a contest to work as many stations as you can in a certain period of time, or use CW to provide a public service in preparation for an emergency in your state or somewhere in this or another country.

Almost from the very beginning of amateur radio ham operators in every state have devoted time to sending and receiving messages to help those confronted with an emergency, such as a tornado, hurricane or flooding. Every day and night hams meet on designated frequencies to handle "traffic" in preparation for the day when a real emergency will happen and their services will be needed - and when there may be no cell service. One of those "traffic nets" is KYN (the Kentucky CW Traffic Net), which meets every night at 9 pm EST and Saturday morning at 9am EST on 3537 Khz. Come join us. It doesn't matter whether your CW speed is 5 wpm or 20 wpm. On Saturday morning's we try be less formal and rag chew a little.

So, Why CW? Because you devoted the time to and effort to learn a unique language. You made it a personal accomplishment. Because you can now do what most others can't do - use CW to talk to people around the world, to feel the excitement of hearing someone in a foreign country or another state that you need for an award you are working on, trying to have them hear you and then finally hearing that person send your call letters, or because of the public service you can provide to others in their time of need. Because it is fun.

73

Ray Smith, WB4ZDU
Louisville

CENTRAL KY AMATEUR RADIO GATHERING WHAT IS DMR?

On Ground Hog day, February 2, something raised its shadow besides a ground hog. This was a gathering of amateurs from around central Kentucky and beyond trying to find a way to educate

themselves beyond the mystic realms of "Digital Mobile Radio", otherwise known as DMR. Questions like, what the heck is a code plug? What is the difference between tier 1 and tier 2?

I'd like to thank everyone for coming to the DMR gathering Saturday morning! We had a "Standing Room Only" crowd! I think we had 36 attendees.

I would especially like to thank Kyle Robinson K4KTR, for coming out and explaining the basics of DMR to us! Lots more to learn!

"Did someone say Hot Spot??" Maybe next time?

I would also like to thank Alan Morgan KY1O, for his efforts and organizational skills with obtaining the site, and getting all the details out to the DMR community, making them aware of the event, and getting all of the coffee and doughnuts and other goodies for the event!

Odis Carroll W4IOD, also announced the DMR meeting on several area NETs, helping to spread the word. Thanks Odis!

I'm already looking forward to the next gathering!

More news on that will be coming soon from Alan.

I really enjoyed the event, and hope everyone attending did too. It was full of usable information, and I have already made adjustments in my code plugs.

Thanks again everyone for the great turnout!

73, De Greg N4GOS

From: Central KY DMR Facebook



Figure 2 Kyle Robinson K4KTR - presenter

Editors Note: I would encourage the processing of many of these educational seminars to be developed and spread across the regions of Kentucky. Whether it be DMR, Fusion or DStar, many newcomers and well as OT have a big question on their forehead. I have put out a request to have at least a quarterly article from gurus in digital communications to provide information here in Section News. Any takers? Normally, not enough time do expound on this at a hamfest. There is time to wet people's appetite to explore a hotspot, what kind of radio should I purchase, how do set up a hotspot? Wow, thanks for my friend Jerry Woods KD4FZY, (who is battling cancer) or I too would have a question on forehead and still in many areas.

YOUTH IN AMATEUR RADIO

I received a call from a ham in Bowling Green, Zach Rockovan N0ZGR, Vice President KY Colonel ARC, within the last few weeks asking about assistance for his daughter who is wanting to set up a radio club in her junior high school. His daughter has her General class license. I gave him a reference to our KY Youth Coordinator, Mark Volstad AI4BJ. I understand a seed has been planted and good things are in the works. What about the rest of you folks? What are you doing for the good of amateur radio?

US Navy Explores Amateur Radio as a Training Adjunct

02/13/2019

The US Navy's Naval Air Warfare Center Weapons Division (**NAWCWD**) has adopted Amateur Radio training as a possible new approach to basic RF and electronics instruction. More than 20 NAWCWD employees took part in a week-long class in Point Mugu, California, in December. The class, which culminated in an examination session for the Technician licensed, offered NAWCWD employees a novel approach to teaching radio propagation, said Brian Hill, KF4CAM, the lead for electromagnetic maneuver warfare experimentation in the Avionics, Sensors and E*Warfare

Department. Hill, who got his license while he was still in high school, is also the department's "innovation ambassador."

"I looked at the breakdown of current new hires and saw that many had degrees in computer science and thought that their classwork might not have covered things like RF propagation," Hill said. Rather than have employees sit through hours of *PowerPoint* briefings, Hill thought that a licensing course might be a more dynamic, hands-on approach to convey the basics — and cover areas such as directional antennas, signal propagation, and modulation that are necessary for their work. Initially, Hill had 10 class slots funded, but then Target Design Engineering Branch Head Ian Mann, KI6YVO, got wind of the class, saw its potential, and helped get funding to expand participation. Mann, a General-class licensee and a ham for nearly 10 years, said he's been able to apply knowledge learned in the class to his NAWCWD work.

Target Systems Division head Milton Gabaldon, also saw merit in the approach. He sat in on the classes, took the exam, and he's now KM6YPA. For him, it's about connecting the dots.

"It's about introducing people to electronics, to start understanding what RF is all about ...so when we talk about it in the test and evaluation world, [students] know what we're talking about," Gabaldon said. "They get a better view than 'I just do software.' Now they see 'My software controls this piece, which sends out RF jamming signals that protect the warfighter.' That's the most important takeaway."

In all, 23 employees who took the Technician exam passed, and several also successfully tested at for General and Amateur Extra licenses. Hill hopes to offer more hands-on classes in the future, and he's planning a Fox Hunt for the near future, as additional hands-on training. — *Thanks to NAWCD and Public Affairs Officer Kimberly Brown; some information from **C4ISRNet***

From ARRL News:



Figure 3 Newly license amateurs

ARES AND SECTION NET REPORTS - JANUARY 2019

COUNTY	TOTAL HOURS	COMMENTS
CALDWELL CO - KI4YIB	75 HOURS	Here is Joey McCaslin's break down. Work on COM I 1-15-19 6 people X 3 hours = 18 man hours 1-22-19 4 people X 2 hours = 8 man hours Sit up for Winter Field Day 1-25-19 4 people x 6 hours = 24 man hours Winter Field Day 1-26-19 10 people for 50 man hours 1-27-19 6 people for 25 man hours Winlink Workshop 1-15-19 5 people x 2 hours = 10 man hours We had 5 nets, 33check in for 1 hr. 15 min.
CALLOWAY CO - K4CHW	366 HOURS	Another busy month in Calloway County as new hams continue to be licensed from the Fall Technician training class conducted by EM Director, Bill Call and members of the MSU ARC. General class training has begun. We're expecting another busy month in February. 73! K4CHW
UNION CO - KJ4HNC	7 HOURS	The Union County repeater is back on the air and EchoLink is back online as well.
BUTLER CO - KN4MAA	1.5 HOURS	5 nets with a total of 14 check ins. Awaited for ECOMS during the severe weather, however nothing was on 3.972.50 or 3.816. No public service events conducted. W8QAS is now assisting me with the Butler County ARES net.
WARREN CO - KK4AVI	12 HOURS	PARTICIPATION IN WINTER FIELD DAY. PREPARING ORDERS FOR HEART GROUP
HENRY CO - NG00	89 HOURS	Started year with push to recruit members not only from Henry, but also from Northern Counties that borders Henry. Knocked on doors and sent out Mailers. Got a new County EMA Manager for County for 2019. Mike Hilliard

		former Deputy Director is now serving as part time Director. Attended both Shelby County Club Meetings and participated in local area nets.
SHELBY CO - K5CPT	60.5 HOURS	One meeting and three ARES Nets since my appointment. This is what I believed should be included here. I have four NCS. Myself K5CPT,KE4YRI, KY4TPR and KM4PAB. We use our club call, KF4UTJ. I run NCS on the first week and any fifth week of the month. Have made contact with Shelby EMS director to inquire about training for my group in the form of CPR, AED and First Aid wound packing and wrapping. Also, planning on classes for building ARES members. Have not been able to make a contact with the county EMA Director Chris Spaulding, but we do know each other, and hopefully this will happen soon.
BOONE CO - N4YHC	5 HOURS	I completed all the FEMA training that the SEC mentioned needed to be done after the January call. Still need to visit with the rosters and some of the procedures.
DEC DIST 6 - AB4WS	45 HOURS	Kentucky Emergency Net, K4CO Net, ten meter net, 75 meter net, 6 Meter AM Net, DSTAR Net, DMR Net, and other nets, participated in two of the ARES Leadership Conference Calls, worked on membership training database project. Other phone calls and discussions, and recruiting opportunities..
BOYD CO - KY4TVS	52 HOURS	Started regular nets on Sunday Nights at 20:30 Frequency will vary between the -146.940, -145.810 DMR Repeater, and 146.500 Simplex. Boyd County ARES Members participated in the ARRL Winter Field Day with the RCARA Club, Select members attended ICS-300 training with Boyd County EM. An AEC was selected and

		informed to submit an application on KYHAM.
KNOX CO - KM4VHI	23 HOURS	Served as NCS for D9 ARES Net on 1/10 and 1/17. Checked in periodically to the KY Emergency Net and KY Digital Net. Assisted KB9LXH in preparing for a Advanced SKYWARN Storm Spotter training originally scheduled for January that had to be postponed due to the government shutdown. Training cosponsored by Knox ARES, Knox EM, Whitley EM, D9 ARES, St. John's Episcopal Church, and the NWS Jackson office. Participated in monthly KY ARES Conference Call. Communicated with Knox ARES members about winter weather preparedness. Met with planning team for the Redbud Warm Up Bicycle Ride to plan radio support for the public service event on April 12. Recruited additional radio operators for the event.
MADISON CO - KO4OL	179 HOURS	This report includes the Wilderness Trail Emergency Net which meets on Wednesdays at 2030 Hours on 146.715- and also serves Madison County. There were no activations during the month for severe weather or other emergencies.
PULASKI CO - AC4DM	38 HOURS	12 PSAs sent 1 Radio Club Meeting 1 VE Test Session 2 Repeater Work Days 5 Amateur Radio Breakfasts

STATEWIDE AND LOCAL NETS

KY DIGITAL NET KDN	QNI 11; QTR 5.5 ; 2 SESSIONS
KY CW NET KYN	QNI 91; QTC 27; 29 SESSION
KY EMERGENCY NET KEN	QNI 142; QTC 3; 4 SESSIONS; QTR 36210
PERRY CO ARES	QNI 74; 10 SESSIONS; QTR 4440
HARDIN CO ARES	QNI 34; 3 SESSIONS; QTR 134

MADISON CO ARES	QNI 51; 4 SESSIONS; QTR 3060
HENRY CO ARES	QNI 45; 15 SESSIONS; QTR 35

NOTE: I would encourage all participants to enroll in ARES Connect:
LINK FOR REGISTERING: <https://arrl.volunteerhub.com/lp/XX> XX=KY

PLEASE ADDRESS CONCERNS TO aresconnect@arrl.org AND COPY ME
w4nho@arrl.net. Make sure your county is registered. If you have a net that
you want added please contact me or Jack, AB4WS ab4ws@arrl.net

At this time, KYHAM is still going through issues. Please continue reporting
through KYHAM, but give a look at ares connect. Kick the tires. It is going through
growing pains, give it a chance. It is the future.

Hamfest Season Coming

Cave City Hamfest March 2

Tullahoma Hamfest March 9

Ides of March Union, Tn March 23

Sevier Co Hamfest (TN Section Convention) March 30

Etown Hamfest April 6

Letcher Co April 13

Ashland Hamfest April 27

Xenia (Dayton) Hamvention May 17 - 19 ARRL National Convention

STATEWIDE EXERCISE

There will be a 8 state exercise coming up in late May or early June including
Western KY and surrounding states regarding the New Madrid Fault. Details to
follow. Amateur Radio will be a key player. Please don't stick your head in the
sand on this one. Stay tuned!