

NET ACTIVITY:  
KEN: MONDAY 3.972.5 2330Z  
KDN: TUESDAY 3.587 0030Z  
KYN CW: DAILY 3.537 0100Z  
STATEWIDE DMR: "KY  
STATEWIDE 0000Z - Thursday  
Evening "

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SM: w4nho@arrl.net  
SEC: sec@kyham.net  
STM: kc4bqk@arrl.net  
ACC: n4ver.ky@gmail.com  
TS: n9ky@arrl.net  
OOC: k4lrx@arrl.net  
PIO: w0qi@icloud.com  
KYHAM: admin@kyham.net

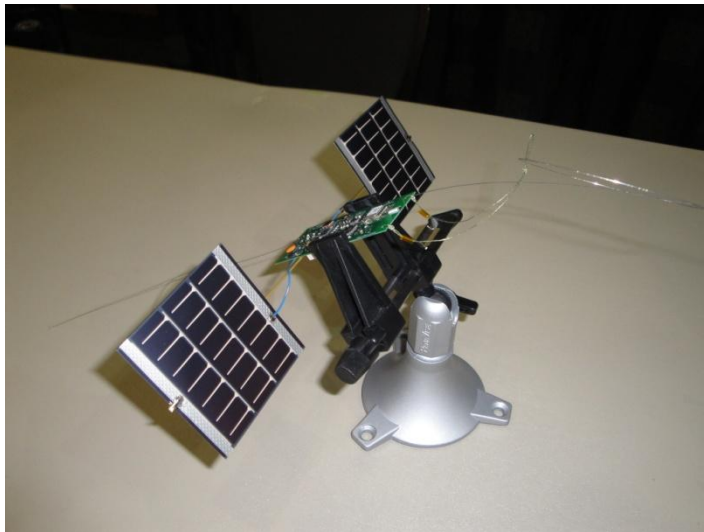
**KENTUCKY NEWS**  
**KENTUCKY SECTION MANAGER**  
**STEVE MORGAN W4NHO**  
**OWENSBORO KY 42301**  
**HAPPENING OF THE MONTH**  
**September 2017**



## KIDS: OUR GREATEST RESOURCE

After attending the Bowling Green Hamfest this weekend I saw a gleaming light that is really producing excellent results. Unfortunately, the morning was too brief to get all the information that I wanted. What is this gleaming light? Well it is smaller than a breadbox that is for sure.

K2BSA demonstrated a balloon launch in their Jamboree this year. Youngsters have a very inquisitive minds and are desiring to acquire a Tech license for this one purpose, similar to challenges in robotics.



August, there were literally 100s of balloon launches by indications of APRS views. They travel the prevailing winds and travel a few miles, 100 miles or all away around the earth. Altitudes range anywhere from 30,000 ft to over 200,000 and provide crystal clear photographs of their surroundings and much data to peek the interest of all involved. Actually, amateur radio has been along for the ride, since 1964. Since then, numerous payloads

Bill, WB8ELK from Huntsville, AL demonstrated what this little device can do while in Bowling Green over the weekend. It is a payload being tracked by APRS and has a built in camera, delivers atmospheric pressure data and weighs less than a few grams. It has its own antenna and is powered by solar panels. Bill is a professor at the University of Alabama at Huntsville.

These launches are happening everywhere. If you were watching during the eclipse in



have been visiting our atmosphere and drawing a wide variety of interest. Bill has reported using the 20 meter band to send out signals when VHF/UHF propagation is not favorable.

What better way to involve our kids, our educators than exploring something that has really been around for some time. Here are some links that are worth looking into: <http://arhab.org/> ; <http://superlaunch.org/>; <http://bear.sbszoo.com/>  
Bill Brown WB8ELK, [wb8elk@aol.com](mailto:wb8elk@aol.com)

## ARES REGION ONE PROVIDES UPDATE ON WINLINK

Region One had a ARES gathering September 16th at the Utica KY fire department. If you wondering where Utica is located, it south of Owensboro on US 431, when you get to the caution light. If you blink very long you might miss it.

Attending Region One ASEC Nick White, NV9V; Bob Spears AA4RL EC Daviess Co; Kimber Heddens KI4GWN Henderson Co EC; Jim Dukes KD4MTG Asst EC Ohio Co; Doug Clark KC4FRA EC Hopkins Co; Chuck K4CHW DEC 1/EC Calloway Co and numerous others including



Figure 1 Jim Dukes KD4MTG

Kenny Garrett N4KLG, now current SEC.; For folks to take a bite out of their schedule to attend an informational gathering on ARES was a great step in the right direction.

The main topic of discussion was the continued effort in bringing along a Winlink network in Western KY and continue to bring efforts in building this network further East. Jim Dukes announced that there would

soon be a 24 hr HF Pactor link operational from the Beaver Dam area. The site has been granted a SHARES license. That means that outgoing data can reach a Winlink node outside of our tristate area. Our current network goes from Hancock County to Caldwell Co and soon will be heading near the TN border and further East.

It was announced this month that Winlink will update its framework. It is changing from its present CMS structure to a CLOUD based structure, hosted by Amazon Web Hosting. The changeover hopefully will occur October 31.

The response of using the Winlink system in going that last mile has been more than favorable to the agencies contacted thus far. Being able to move email traffic from an area that has no internet capability to their HQ whether it be FKT, LVL or Washington DC turned many a head. Winlink is nothing new because it has been around since early 2000, thanks to Steve Waterman K4CJX and the Winlink development team. Winlink has had a up time since 2000 of 99.99 percent. How does that compare to your local cable company?

Almost the entire project has been established by using older 2 meter radio and TNCs, sound cards with a low budget laptop to run a Winlink gateway. There are some high speed data links as well, running at 9600 baud.

Winlink is currently carrying the load for Puerto Rico and other affected Hurricane relief areas. FCC has provided a 60 day window where Winlink can use Pactor 3 and 4 in the amateur bands to help move much of the email traffic to the mainland. Winlink has proven itself time again on its reliability. If you would to become part of this network, now is your chance.

For more information about this program, contact Mr. Jim Dukes KD4MTG [kd4mtg@winlink.org](mailto:kd4mtg@winlink.org); Mr. Bob Spears AA4RL [aa4rl@winlink.org](mailto:aa4rl@winlink.org) or Mr Jim Rayburn KC4BQK [kc4bqk@winlink.org](mailto:kc4bqk@winlink.org). or myself Steve Morgan W4NHO [w4nho@winlink.org](mailto:w4nho@winlink.org).

## HAMFEST SEASON WINDING DOWN

Hamfest season is slowly approaching the end of another year. Reports of many successful events, some new ones too. Paintsville put their oar in the water for an event holder and had 85 attendees and sold 18 tables this month. Also, they entered the world of DMR with a VHF DMR operational repeater.

Shepherdsville - Greater Louisville Hamfest - has volunteered to host the KY State Convention for 2018. More information will be available in the coming months. Does your club want to be a part of it?

Morehead and Bowling Green had Hamfests on the same weekend this year, October 7. I attended the Bowling Green fest which is held in a nice venue, the city convention center. Have not heard on the

results of the Morehead Hamfest. There is a chance that a new amateur radio club will be formed at Morehead St University. A professor is asking (?) students to acquire a ham license as part of the course curriculum. How about that? I had the League send them numerous handouts at the beginning of the school year. Good things are happening. Thanks to Carol Laferty K4SAF for coordinating the efforts.

Hazard will be concluding the hamfest trail October 30. Please be mindful of the event and check out the event on the ARRL web page.

Hope to see everyone next year on the Hamfest trail beginning with Cave City, March 3rd.

## **SECTION NEWS FEATURE: CLUB OF THE MONTH**

### **KY DISTRICT 7 AMATEUR RADIO CLUB**

This is the Kentucky District 7 Amateur Radio Emergency Team (KD7ARET), Ham call KY7ET, serving the northern counties of the Commonwealth of Kentucky, and is an ARRL affiliated club with ARES as its focus of operation. It branched off from its sister club NKARC in the early 2000s with a specific interest in providing education in EMCOMM and service to the Kentucky District 7 ARES counties. And serve they have! By providing emergency communications during numerous weather events, including the recent flash flooding in Northern Kentucky in 2017, the Piner, Kentucky, in Kenton County, tornado in 2012, the ice storms of 2009, and Hurricane Ike in 2008. In addition, KD7ARET actively engages in service preparedness activities, such as providing support communications for the Honor Run Half Marathon in Florence, Kentucky, in Boone County; assisting the Greater Cincinnati area in support communications for not only the Flying Pig Marathon, one of the top ten marathons in the country, but also Paddlefest, providing communications to the United States Coast Guard, on the Ohio / Kentucky border along the Ohio River. KD7ARET, a 501(c)(3) organization, provides educational and emergency communications services to its members and the ham community at large. The current chair, Greg Lamb, W0QI, and Jack Prindle, AB4WS, DEC-7, maintain the organization in operational readiness through a weekly net and various service activities throughout the year. Combined Field Day operations with NKARC and continued activities with our served agencies allows us to be ready "WHEN ALL ELSE FAILS". Find out more about us @ KY7ET on Facebook and Twitter. Proud to serve Kentucky – we are KY7ET!

#WeAreKY

From: Mr. Greg Lamb W0QI PIO KY

Editor Note: Currently, there are approximately 36 affiliated clubs in Kentucky. Each month there will be provided space for each club to toot their own horn in their own words, 250 words or less with photos, space limited on photos. An affiliated club will be contacted for next month, will it be yours?

## KYARES TURNS A NEW PAGE

I would like to thank Mr. Cecil Dennis K4TCD for his service to the Commonwealth for the last several years as Section Emergency Coordinator. At the same time, I would like to welcome Mr. Kenny Garrett N4KLG of Henderson as the new Section Emergency Coordinator for the Commonwealth. Kenny comes with prior experience serving as SEC under Mr. Jim Brook KY4Z from 2009 - 2013 and currently serving as Deputy Director for EMA Henderson Co. As we continue to build on the past, we look forward to the future in serving our fellow citizens of Kentucky. Please see ARRL KY Section for further info on Kenny.



If you would like to become a part of this new growth don't hesitate to contact your EC and enroll as a member. Better yet, if your county does not have an EC, how about stepping up to the plate and organize a group of your fellow hams to learn new terms, skills and discipline to be a communicator in the time of need. You can ask the folks in Eastern KY what a flash flood can do and how fast it can occur to lose all your belongings and no communications or numerous areas in Kentucky where a tornado has struck. What about the ice storm of 2009? Disasters can happen, learn to be a part of the answer.

## BY THE NUMBERS

### Anderson County KM4VQD: 20 MEMBERS

Participated in all 4 of the Anderson Radio Club ARES Nets during September and served as Net Control on 9/28. I also participated in local Nets from surrounding counties including Fayette, Henry and Woodford counties. I attended the monthly meetings for Anderson Radio Club. In addition, I participated along with members of the ARC in assisting emergency management with the following public service events in Anderson Co: Anderson Co HS Homecoming Parade on 9/7 and Trooper Chrisman 5k Memorial Race on 9/9. The ARC also participated with emergency management at the Burgoo Festival on 9/22 - 9/24.

### Henry County: NG00 8 MEMBERS

Participated in area ARES Nets and was Henry County ARES Net controller for Sept. Attended LEPC Meeting for County 9/28.

### Shelby County: NG00 26 MEMBERS

Participated in area ARES Nets along with participation in Shelby County ARES weekly nets. Third week did 3 nets on 3 different frequencies for Shelby County. Did 2 monthly club meetings with 12 and 13 in attendance. Had visit from EMA Director last meeting which was productive.

Lawrence County: KJ4GRJ 13 Members

PARTICIPATED IN THE APPALACHIAN BIKE TOUR WITH JENNY LEEDY KJ4VCU AS NET CONTROL AND MYSELF HAD 34 PARTICIPANTS. GOT THE DMR REPEATER ON THE AIR IN PRESTONSBURG GOT SOME BUGS TO WORK OUT YET. NOTHING ELSE TO REPORT.

Jackson Co: KB9LXH 2 Members

This report includes the District 11 Skywarn Net which meets Sundays at 2000 ET on 146.925 (-) PL 79.7 & linked to 147.180 (+) PL 74.4, serving Jackson and the surrounding counties of District 11. For the month of September, the following updates are provided: 1. Membership: No change from the previous month despite continued outreach efforts. 2. Served Agencies: Jackson County EMA/CSEPP, McKee, KY and National Weather Service Forecast Office, Jackson, KY (NWSFO-JKL) 3. Training/Exercise: a. District 11 Skywarn Weather Net held Sundays at 8:00 pm ET. b. District 11 ARES Net held Mondays at 9:00 pm ET. c. Emergency communications training requirements (including NIMS) is ongoing. 4. Outreach: a. Attended September 12th meeting of the Southeast Kentucky Amateur Radio Club (SKARC) in London at the Laurel County EOC. Refer to ADEC report for detailed comments. b. Efforts continue in establishing links to the District 11 Skywarn Weather and ARES Nets.

DEC District 9: W4VJE 12 Members

Working on FEMA training between work assignments. Have made personal contacts with local EMA heads to set up meetings regarding ARES services to served counties. Maintenance on Paintsville DMR repeater, as well as coordination securement for Pikeville and Dorton DMR repeaters. Both systems will be linked to Brandmeister and will be available for ARES use 24/7. I will be getting with all district 9 EC's and AEC's to set up a meeting in mid/late October. Hopefully we can schedule some training.

Garrard County: KM4KGN 6 Members

Garrard ARES participated in the state-wide CSEPP exercise on Sept. 20th. Due to the continuing issues with our local repeater, we took the opportunity to thoroughly test our simplex capability at the various locations around the county, that would actually be used in such an emergency. We learned that simplex communication with the EOC can be achieved reliably at all such locations using either HT or mobile radios...with some areas in the extreme northern part of the county requiring the use of the more powerful mobiles. We are also able to easily communicate with the State EOC via simplex, as well as through the Madison 146.865 repeater.

PSHR SEPTEMBER

CALLSIGN	NETS	MESSAGES	APPTS	DIGITAL/QTR	TOTAL
KC4BQK	10	30	30	40	110
KO4OL	25	40	30	40	135
W4NHO	38	35	20		93
WB4ZDU(SAR)	16				

## **SIMULATED EMERGENCY TEST**

I wanted to give credit for efforts by this gentleman and his crew. Great example to follow. What about the rest of Kentucky? We still have a few weeks to make something happen for an SET. He has only had this appointment for a few months.

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### **2017 SEPTEMBER SET**

By Joseph Warren KB9LHX  
ADEC DISTRICT 11 REGION 5

Due to the threat of inclement weather conditions forecasted from the remnants of Hurricane Nate, ARES District 11 (consisting of Bell, Clay, Jackson, Knox, Laurel, McCreary, Rockcastle and Whitley counties in southeastern Kentucky) did not participate in the annual ARRL Simulated Emergency Test (SET) for October 7-8, 2017.

Instead, the attached Form A for our local 2017 SET, submitted at the request of KY Section Manager Steve Morgan (W4NHO), consists of information regarding an annual exercise conducted over a two-day period last month (September 19-20, 2017) by Jackson, Laurel and Rockcastle counties of ARES District 11 (*enclosure 1*). This exercise was held in conjunction with seven other counties from ARES District 13, specifically, Madison, Garrard, Jessamine, Fayette, Clark, Powell and Estill counties. These ten counties make up the US Army/FEMA Chemical Stockpile Emergency Preparedness Program (CSEPP) areas in the Commonwealth of Kentucky. (*see map, enclosure 2*).

You may be asking yourself, what exactly is CSEPP? CSEPP is a partnership between FEMA and the U.S. Army that provides emergency preparedness assistance and resources to communities surrounding the Army's chemical warfare agent stockpiles. Since its inception in 1985, CSEPP has worked to educate and enhance emergency preparedness in communities surrounding the chemical stockpile stored at the Bluegrass Army Depot. Kentucky CSEPP has two IRZs, six PAZs, and two host counties which are affected by the chemical stockpile. Madison County, where the Bluegrass Army Depot is located, and Estill County are in the Immediate Response Zone (IRZ). Clark, Fayette, Powell, Estill, Jackson, Rockcastle and Garrard Counties make up the Protective Action Zone (PAZ). Jessamine and Laurel Counties are considered Host counties, in which citizens of the IRZ or PAZ may be evacuated to in the unlikely event of a chemical agent accident. For ARES, it is our continued preparedness, planning and training for an event such as this that makes us an invaluable asset to the agencies we serve as demonstrated in these next paragraphs.

On Day One (September 19, 2017), Laurel County ARES provided auxiliary communications support to the Laurel EMA, the Laurel County Hazardous Materials (Haz-Mat) Response Team and other emergency service agencies involving decontamination of persons from a simulated haz-mat release. The exercise, which took place at the Laurel County Fairgrounds (just south of London, KY) included the following participants: Laurel County EMA/CSEPP, Laurel County Haz-Mat Team, neighboring Pulaski County's Special Response Team (SRT-Haz Mat), Laurel County fire departments from Camp Ground, City of London, East Bernstadt and Keavy, and Ambulance, Inc. of Laurel County (EMS). Members of Boy Scout Troop 828 and Cub Scout Troop 828 from London were used as simulated casualties for the decon exercise. Local American Red Cross shelter operations for the "casualty" participants were simulated for this exercise due to their disaster relief responses to Hurricanes Harvey and Irma. Laurel County ARES initially activated operations on two repeaters linked together [KG4LKY on 146.925 MHz in Manchester (Clay County) and KE4GJG on 147.180 MHz in London (Laurel County)] before transitioning to 146.550

MHz Simplex for the duration of the two-hour exercise. Although normal public safety communications were present for the emergency service organizations on scene, Laurel County ARES provided communications support between the “incident site” and “shelter operations” and was on stand-by to assist the on-scene incident command, his staff and the county EOC.

On September 20, 2017 (Day Two), ARES groups from Rockcastle and Laurel counties provided auxiliary communications to their respective local emergency operation centers (EOCs) in a nearly six-hour exercise designed to test their communication capabilities, to include the use of amateur radio. Jackson County ARES did not participate with their county EOC due to scheduling conflicts. The exercise scenario, which included ARES groups in District 13, involved a simulated hazardous material incident with the release of nerve agent Sarin (GB) gas from a punctured projectile in a storage igloo at the Bluegrass Army Depot (BGAD) just southeast of Richmond, KY (Madison County). Laurel County, as one of two host counties for potential evacuees in an actual evacuation, utilized local ARES members working inside the EOC during the exercise to augment EOC communications. Using amateur radio operators in Madison County and Laurel County with an amateur radio operator in Rockcastle County acting as relay/liaison (since Laurel County could not contact Madison County directly), ARES provided an additional communication resource to local emergency management in the counties that participated during the exercise. During the EOC exercise, Laurel County ARES members received two exercise inquiries (via VHF repeaters) and responded back in the same manner after consulting with the local EMA director or his staff. ARES members also received two of the several Sim Cell Inject messages during the exercise via telephone and forwarded those inquiries to the appropriate Emergency Support Function desk for action using a WebEOC program that ARES members working in the EOC received training on a week prior to the exercise.

After each exercise event an informal After-Action Review (ARR) took place to identify strengths and areas where improvements are needed. ARES in District 11 could make. Noteworthy strengths from the September 19 Decontamination Exercise include maintaining contact with each amateur radio operator at their respective assignments using VHF simplex. Areas of improvement identified were the use of tactical identifiers along with FCC identifications; improvements in net operations and liaison training with our served agencies and their partners prior to the next exercise or actual deployment. Noteworthy strengths from the EOC Exercise on September 20 include maintaining radio communications between the host county for evacuees (Laurel County) and the EOC located inside the IRZ (Madison County) with an ARES operator at the Rockcastle County EOC acting as a relay at times on a secondary repeater. Areas of improvement identified include among other items, programming of the Madison County ARES primary repeater frequency into the amateur radio transceiver at the Laurel County EOC prior to the next exercise or actual event so that another station acting as relay would not be necessary between Laurel and Madison counties.

Other areas of improvement from both exercises for District 11 include, at a minimum: 1.) the naming of a Laurel County EC so that closer coordination between ARES, local EMA and other served agencies can occur; and 2.) the continued recruitment and training of new ARES members, EC's and AEC'S for all counties within the district, especially in those counties where ARES activity is low or non-existent.

If there any questions or comments regarding this report, feel free to contact me.  
kb9lxx@arrl.net