



ARRL Standard



Pray for our Troops



God Bless America!

QUA/HAM news

JULY 2021

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MARS STATION



Glenn E. Welman/KF4NB
Memorial BBS
145.010 and 145.090

Web Page: <http://www.bluegrassars.org>
E-mail: bluegrassars@hotmail.com

K4KJQ
146.160/.760

ATV Repeater: KY4ATV
Input: 439.250 // Output: 923.250

WA4HBM
147.765/.165

“Ham News” was first published by Bobby Foster, WA4ZSQ, in August, 1972; the parent newsletter, “QUA,” was first published in March, 1947

QUICKY NOTES

Accessing the Club's web page: <<http://www.BluegrassARS.org>>.

Telephone Number for the Shack (basement of the Red Cross Building): (859) 231-0974.

Subscribe to ListServ: Send an eMail to: bars-request@lsv.uky.edu; in Subject line type Subscribe plus <your call sign>

Post notes to the Club List Serv:<bars@lsv.uky.edu>.

July General Membership meeting has been canceled. Zoom informal meeting on July 12, 2021.



Below you will find the Club's Ebay account for the sale of the surplus equipment. Copy the URL into your browser and take a look at the items we have up for auction.

<https://www.ebay.com/sch/bluegrassars/m.html>

QUA/HAMnews

JULY 2021

Meeting Notice

Bart Breeding/KB4FEE,
Chair, Newsletter Committee
Bluegrass ARS, Lexington, Kentucky

The general in person meeting of the Bluegrass Amateur Radio Society, Inc., scheduled for July has been cancelled.

Do you have a topic you would like a program on or a program you would like to present? Do you have a home brewed project you have built? Bring it and show it off! Question? Ask it! Maybe your question isn't one about a Club activity or function, maybe you are having a problem getting some newly acquired equipment set up and operating correctly, or you have an antenna with radiation problems. Regardless of your question, problem, or suggestion, bring it to the Club meeting.

The Club shack is currently closed due to the Covid-19. Bluegrass Amateur Radio Society's ham shack is located in the basement of the Red Cross building at 1450 Newtown Pike Lexington, KY 40511. Entrance is down the steps (look for the BARS banner hung on the railing) at the North Side of the building.

Fayette County ARES Coordinator - Jewell Vest
Jewell has agreed to become the new coordinator. Remember the Fayette County ARES net every Tuesday at 8:30 pm on the 146.94 repeater. We are looking for more folks that would help share in the net control. If you would like to Help, contact Bart/KB4FEE/859-644-2216

A new net has started, Wednesday evening at 8 pm and Saturday mornings at 8:45 am. This is a rag chew net and open for all amateurs. The NET is located on the 146.760 repeater. There is no PL tone. See you on the net.

“Our new Constitution is now established, and has an appearance that promises permanency; but in this world nothing can be said to be certain, except death and taxes.”

— Benjamin Franklin

BUY, SWAP, OR TRADE

GREETINGS,

After a 16-month pandemic hibernation, The Jessamine Amateur Wireless Society (JAWS) club has been granted permission to assemble every second Monday from 7-9pm in the Education Center conference room of the Corman St Joseph Ambulatory Care Center at 1250 Keene Rd in Nicholasville.

We have also granted permission to resume our bi-monthly Swap Meet and Tailgating in the parking lot most distant from the patient care facility.

Saturday, July 17th 2021 10am-12pm will be the first swap meet since February 2020. The meet will be in the front parking lot of the Corman St Joseph Ambulatory Care Center at 1250 Keene Rd in Nicholasville.

Feel free to bring your truck or carload of ham gear and related electronics to sell, swap or give away. No fees, commissions or donations required. If you are a buyer or looker, come on out and meet your fellow hams. Maybe you'll find something special to take home.

Now is the time to clean out the shack, shop, shed, attic and basement to clear the way for new stuff to take its place!

See you there.

73 Bill N4LG

LINK TO BY-LAWS

<https://1drv.ms/b/s!AqEiE135zkdAjjacQsQea7LrQVzd>

Bluegrass Amateur Radio Society (BARS)
Open General Meeting Report for July 2021
Red Cross Building, Lexington, Ky.

The July 2021, BARS Open General Meeting was, postponed due to health related precautions in response to disease control measures associated with the current COVID-19 virus situation.

The BARS Open General Meetings are expected to resume in the future on their regular schedule of the first Monday of each month when the recommended restrictions on group gatherings are ended and the Red Cross Building is again available for BARS functions.

MAIL ADDRESS CHANGE

At the December meeting, the Board of Directors decided to get a post office box for the club at the Nandino Boulevard post office, which is “right around the corner” from the club shack. This will make it much easier for people to check the box while traveling to or from the shack.

Post office box fees are often paid six months at a time. I want to thank Jodie, WB4LKQ for donating the funds for the first six months of our new box.

Mail will continue to be received at the old box (4411) for several months, and then there will be a forwarding order in effect to forward mail from the old box to the new box for a year. But, we want to start moving over to the new box as quickly as practical.

Make note of our new address:

Bluegrass Amateur Radio Society, Inc.
Post Office Box 13206
Lexington KY 40583-3206

To emphasize, anything sent to the old box (such as 2021 dues - you have sent yours right? :-)) will be received OK.

Chris
KU4A

“You know you’re getting old when the
candles cost more than the cake.”

-Bob Hope

NEW MEMBERS

Albert LeBron

Estil Stone

Randolph Wilson, W4RWQ

PLEASE WELCOME THESE NEW MEMBER TO OUR CLUB.

JULY ZOOM MEETING

We'll have our usual Zoom meeting at 7:30 pm, on the second Monday of July, July 12th(due to holiday). There is no program yet lined up, so give consideration to whether or not you can make a presentation to benefit your fellow club members. If so, let me know, and we'll look forward to your presentation at the July meeting.

David Richardson will talk about the upcoming field day.

Chris

KU4A

Join Zoom Meeting

<https://us04web.zoom.us/j/6813577284...>

Meeting ID: 681 357 7284

Passcode: 0r99sy

Topic: July BARS Zoom meeting has not been determined as of this date

FIELD DAY 2021

Field day 2021 was a great success. We had several people to operate the radios (not as many as we would have liked), however we had a very good size crowd that showed up to check out both the club's set-up and amateur radio. We had several new members that stopped by to check out the club and to meet the members.

We wish to thank Loretta Colvin for her work on gathering the food and supplies and preparing the meal. The food was excellent. Also, we wish to thank Sal for his help.

Of course, we do want to thank David Richardson for his hard work and efforts for putting together the Field Day operations. Without his efforts Field Day would not be the same.

Finally, we wish to thank everyone that stopped by and visited the location.

The BARS board of directors met Monday,
June 21st at the Arlington Christian Church.

The meeting was called to order at 7:00 PM by BARS president Brad James.

Board members present were:

President Brad James (RBJ) WA4HBM
First Vice-President Robert Brown (RB) KI4JWK
Second Vice-President David Richardson (DR) W9KHZ
Treasurer Bart Breeding (BB) KB4FEE
Secretary Chris Gay (CG) KU4A
Director-at-large Jewell Vest (JV) KO4EPJ

Director-at-large Tim Kunkel (TK) KF4MPM

This constituted the full seven-member board.

Others present were:

Harvey Frye AA4HF

The board approved by acclamation that the meeting would be adjourned no later than 9:00 PM

TREASURER'S REPORT

BB read membership applications from three new members. CG moved, seconded by RB, that the applicants be accepted by the club. Motion passed.

BB presented the financial report. DR moved, seconded by JW, that the treasurer's report be accepted. Motion passed.

DR moved, seconded by RB, that the board approve the reimbursement of \$11 for stamps purchased by the treasurer.

Motion passed.

CG moved, seconded by DR, that the board approve Loretta Colvin's purchase of food for Field Day. Motion passed.

BB reported that he had received a request from a member for a couple years worth of financial records. The board then launched into an extensive discussion to develop a set of standard operating procedures to deal with such requests. The board approved by acclamation that DR would develop a draft of a request form (a Confidential Disclosure Agreement (CDA)) for approval by the board and the club's legal council. The form would then be sent to any members making a request for records beyond the current point in time. Upon receipt of the completed form, the records would be produced for a fee of \$5 per month per report (\$5 for a monthly treasurer's report, \$5 for monthly minutes).

SECRETARY'S REPORT

no report

STANDING COMMITTEE REPORTS

Audit Committee, CG chair

no report

Executive Committee, RBJ chair

no report

(continued on page 6)

(continued from page 5, Directors meeting)

HIGH PRIORITY OLD BUSINESS

On the subject of the status of shack refurbishment, it was mentioned that the Red Cross had installed improved lighting in the club's area. DR described his work on an improved Silent Key plaque. DR also said that Bob Hawthorne, KK2ICU, has agreed to advise us on floor maintenance. It is expected that work will resume after Field Day.

On the subject of the recent work on towers and antennas, DR reported that all the work that needed to be done up on the tower had been completed, with the exception of replacement of the rotator. Jim Schings, AI4SR, has agreed to design and build a digital controller for our existing rotator so that it won't be necessary to replace the rotator, which is expected to be a difficult job. The club could then sell the new rotator if desired. Additional work on the ground is yet to be done. This includes installation of a connector box, lightning arrestors and coax runs into the shack.

DR and BB reported that they will be conducting a technician license class starting in August. The class will last about eight weeks and be held in the club's downstairs meeting area. Currently, about 5-6 students are expected to attend.

RBJ and CG addressed the subject of the disposition of surplus equipment via auctions. Both, with the help of others, had done a good bit of work to move the items into storage in the Red Cross building, out of the way of the meeting area. More work needs to be done. RBJ and CG have been in communication with a ham who is involved in liquidating an estate. The club will consider accepting the donation if it is believed that the needed labor and storage space is manageable. The board discussed, but took no action on, doing local silent auctions for "low value/high weight" items rather than listing them on eBay as "pick up only" auctions.

The board once again took up a discussion of the upcoming membership survey. With the proposed survey written by JV, a "test" was run with an attendee at the board meeting to see approximately how long it would take to conduct the survey by telephone. With the survey taking about 12 minutes, DR moved, seconded by CG, that the entire survey will be conducted by telephone with each member who is willing to do so. Every member who completes the survey will be entered into a drawing for one of two \$25 Cracker Barrel gift cards to be drawn at the club picnic in September (members do not need to be present at the picnic to win).

Motion passed.

The board then discussed the sales of the club patch and other ideas for BARS-logo merchandise that might be considered since the patch has been so popular. Total sales of patches (in addition to the one free patch each member is entitled to) is now at \$154. Ideas discussed included shirts and coffee mugs (for which members would have to pay) and key chains and lapel pins (like the patches, each member would be entitled to one for free and more can be purchased at a nominal cost). By acclamation, the board chose lapel pins. DR will be getting quotes on having them produced in quantity. The goal will be to have them available by the end of October so that as members begin paying 2022 dues, the lapel pins can be handed out.

HIGH PRIORITY NEW BUSINESS

DR moved, seconded by RB, that the board approve the donation of \$80 to the VFW in memory of recent silent key Bob Wilford, N4RO. Passed by acclamation.

As secretary and parliamentarian, CG explained the bylaw requirements for the annual election coming up in the fall.

DR reported on the club's Field Day plans. Field Day will be at shelter #3 in Veterans' Park. The club has secured permission to be there overnight. The club will provide food (one meal). Members are to bring their own radios, antennas and computers.

The board discussed recent communications with American Red Cross concerning our use of the facilities. DR, as Red Cross liaison, reported that we can use the club shack facilities but they have not yet given anyone permission to use the first and second floor meeting rooms. With many Red Cross employees working from home, the air conditioning has been off in the building. CG moved, seconded by RB, that the board approve the purchase of two

additional box fans for club use. Motion passed.

(continued on page 7)

(continued from page 6, June Board meeting)

LOW PRIORITY BUSINESS

CG and RB discussed work on getting set up to allow remote operation of club equipment. RB has continued to improve the shack computers. Work recently has focused on developing a methodology for the shack manager and his designates to be able to connect to club computers to enable/disable the RemoteHams server or make adjustments. Also, while the RemoteHams software handles operating SSB, for digital modes it will be necessary for members to connect directly to the club's computers. So far there has been no luck in finding suitable software for this, but new ideas provided in the meeting will be investigated.

CG moved, seconded by TK, that the meeting be adjourned. Passed by acclamation at 9:00 PM.



06542

American Red Cross
KENTUCKY REGION

Date 6/8/2021

Received of Bluegrass Amateur Radio Society, Inc.

Acct. No. _____

	CASH <input type="checkbox"/>	
# <u>3166</u>	CHECK <input checked="" type="checkbox"/>	<u>500.00</u>
Received by <u>Tracy Ann</u>		TOTAL <u>500.00</u>

Six Meters: An Introduction

By Dave Finley, N1IRZ

Appeared in QRPp, Spring 2000

Six Meters (50-54 MHz) is known as “The Magic Band” to many of its fans, but the best description I ever heard came from a ham I worked during a frantic summer Sporadic-E opening: “This is a great band if you like having Mother Nature pull your chain.”

On six meters, you can do almost anything that can be done on an HF band. Hams have earned WAS, WAC and DXCC on six. Six meters can sound like a contest weekend on 20, filled with signals and pileups galore. What makes it so different from the HF bands is that you never know when this excitement will come. That ear-blasting cacophony of signals can change into a completely dead band in only a few minutes. Or vice-versa!

Six meters offers nearly every kind of propagation known. At the peak of a sunspot cycle, when the solar flux rises to between 150 and 200, the F-layer skip familiar to HF operators can provide worldwide contacts on six. If the flux goes significantly above 200, DX work on six can even get fairly reliable. Propagation modes more familiar to VHF operators, such as sporadic-E, auroral, meteor-scatter, transequatorial and moonbounce, all have been used on six meters.

Sporadic-E is the most common workhorse for six-meter operators. Peaking around the solstices (June and December), this mode of propagation can provide contacts over a few hundred miles or a couple of thousand miles or more with a “double-hop.” It comes back every season, even during the sunspot minimum. Sporadic-E was essentially discovered by hams during the 1930s, when the old 5-meter band (56 MHz) produced contacts covering “impossible” distances. The “E-skip season” runs from May to July, with another, shorter, peak in December and early January, but this propagation mode can appear at any time. A sporadic-E opening typically lasts for a few hours. For a thorough discussion of Sporadic-E, see the article by Emil Pocock, W3EP, in the April 1988 issue of QST.

Stations for Six

Today, it's easier than ever to get on six meters. Many of the newer HF rigs come with six-meter capability built in. There also are transverters, such as the ones from Ten-Tec, that will put your HF rig on six, and single-band rigs such as MFJ's “Adventure Radio.” If you're interested in DX, avoid the FM-only six-meter rigs and get one capable of CW and SSB operation. You don't need a lot of power. When six is open, it's open!

Antennas for this band are readily available commercially, but also easy to homebrew. A dipole for six meters is only a bit over nine feet long, and even a wire dipole, in a good location, will perform well. At this length, it also is easy to make a rotatable dipole from aluminum tubing. A three-element Yagi will perform admirably, and makes a nice weekend construction project. Ground-plane and J-Pole antennas also work fine for six meters.

While antenna polarization makes little difference for DX work, it is important if you also want to work other six-meter operators within ground-wave range. Most operators with Yagis or rotatable dipoles use horizontal polarization, so if you rely on a vertical ground-plane or J-Pole, you may miss out on local and regional six-meter nets, which can provide a nice way of keeping up with weak-signal VHF happenings. One way to get both polarizations

in one antenna would be to build an “L” antenna for six, adapting the 10-meter design of W4RNL presented in the December 1999 QST, page 52.

Again, you don't need an elaborate station to get good results on six meters. During one opening, I exchanged honest S-9-plus signal reports with a station several hundred miles away, then he asked about my station. When I said, “ten watts and a ground-plane antenna,” he laughed. His station: 1,500 watts and an array of four, 11-element Yagis. And the same signal report on both ends! (This guy uses his top-of-the-line station for six-meter moonbounce work.)

(continued on page 9)

(continued from page 8)

Getting on the air

Six-meter operators do a lot of waiting, because of the unpredictable nature of the band. To help show when the band is open, six-meter fans around the world have put a fairly extensive suite of beacons on the air. In the U.S., beacons occupy the region between 50.060 and 50.080 MHz. In other countries, beacons are spread more widely throughout the band. For lists of beacons, their frequencies, locations and other details, look at the following Web sites, which are updated regularly:

- Beacons
- Beacons
- Beacons

It's a good idea to pick a few beacons in different directions from your QTH and check their frequencies regularly. During an opening, go through the beacon subband and note which ones you're receiving, then watch for them later.

Unlike the HF bands, six meters is much more rigidly structured in terms of what frequencies are used for what purposes. Ironically, six meters, available to all no-code Techs, is one of only two ham bands (2 meters is the other) with a CW-only subband which excludes all data transmissions. That CW-only subband runs from 50.0 to 50.1 MHz. Almost all weak-signal activity on six occurs between 50.1 and 50.4 MHz.

Calling frequencies are used extensively. From 50.100 to 50.125 is a "DX Window," in which domestic QSOs are discouraged. The DX calling frequency is 50.110. The traditional domestic calling frequency is 50.125. However, there has been a movement recently to extend the DX window to 50.130 and make 50.200 the new domestic

calling frequency. This movement has been precipitated by the extension of six-meter privileges to hams in new countries around the world, and the associated increase in the number of DX stations on the air. Such band plans are, of course, voluntary, but are observed widely by the six-meter community.

The recommended CW calling frequency is 50.090, but you will often hear CW CQs on 50.125, too. Under the old band plan, you would hear many stations on 50.125 as the band opened up, then, as more stations discovered the opening, activity would spread upward in frequency, reaching 50.3 or 50.4 during a good opening. It seems likely that, while the new, expanded DX window probably will catch on, many operators will take some time to "let go" of the old, familiar 50.125. I would recommend monitoring both 50.125 and 50.200, as well as 50.090, during an opening. If the opening seems real good, start checking 50.110 for DX stations, too.

Most domestic weak-signal contacts on six are SSB, but in recent years, there has been an increase in CW activity. As mentioned above, the CW activity often is intermingled freely among the SSB signals. It would be nice to see more CW activity down around 50.090, and use the CW-exclusive subband to better advantage.

The first thing you will be asked when you make a contact on six is, "what's your grid square?" While still little known among HF operators, the Maidenhead grid-square system, formalized at a VHF meeting in Britain in 1980 and adopted world-wide by the International Amateur Radio Union in 1985, is almost universally used as a locator system by VHF, UHF and microwave operators. The Maidenhead system divides the world into 32,400 squares, each 2 degrees of longitude by 1 degree of latitude. There are larger "fields" of 100 locator squares each, and each square is divided into smaller "subsquares." For most purposes, knowing your 2 degree by 1 degree square is sufficient.

VHF operators collect grid squares like HF operators collect countries. Many are working toward the ARRL's VHF-UHF Century Club (VUCC) award, which requires confirmed contacts with 100 grid squares. During VHF contests, some enthusiasts go on "Gridexpeditions," to put rare grid squares on the air, while others become "rovers" to operate from several grids during the contest. Just as states or countries serve as multipliers for HF-contest scores, grid squares are the typical multipliers for VHF-contest scores.

You can find a grid-square map of the U.S. [here](#) or you can plug your latitude and longitude into AMSAT's [grid-square calculator](#).

If you work much on six meters at all, you'll probably want to add your grid square to the information on your QSL card.

More information on the Web

Many hams have become rather fanatical about six meters, and there is a wealth of information about this band on the Web. To learn more, you can start at the site of the Six Meter International Radio Klub (SMIRK).

You can earn a lifetime membership in SMIRK by working six members on six meters and collecting their SMIRK membership numbers. SMIRK sponsors contests, publishes a newsletter and meets annually. (continued on page 10)

(continued from page 9)

Another good Web site is provided by the UK Six Metre Group.

Six meters can provide you with a lot of excitement and new operating challenges. In addition to offering new awards and contests, this band can expand your experience with different propagation modes.

Finally, in my opinion, six meters serves a valuable function for the health of Amateur Radio. All licensed hams except for Novices can use six meters. In recent years, no-code Technicians have discovered this band in increasing numbers. When someone whose only experience with Amateur Radio has been local operation on 2-meter repeaters makes a six-meter contact with another ham more than 1,000 miles away, that can be a dramatic revelation that opens up a whole new world to them. In many cases, such a revelation spurs that ham to upgrade their license and join us on the HF bands. When that happens, we have, in all likelihood, gained a lifelong radio devotee who otherwise might have dropped from our ranks from boredom. By showing such hams the wider world of our hobby, six meters earns its appellation of "The Magic Band."

<https://www.qsl.net/n1irz/sixmeter.html>

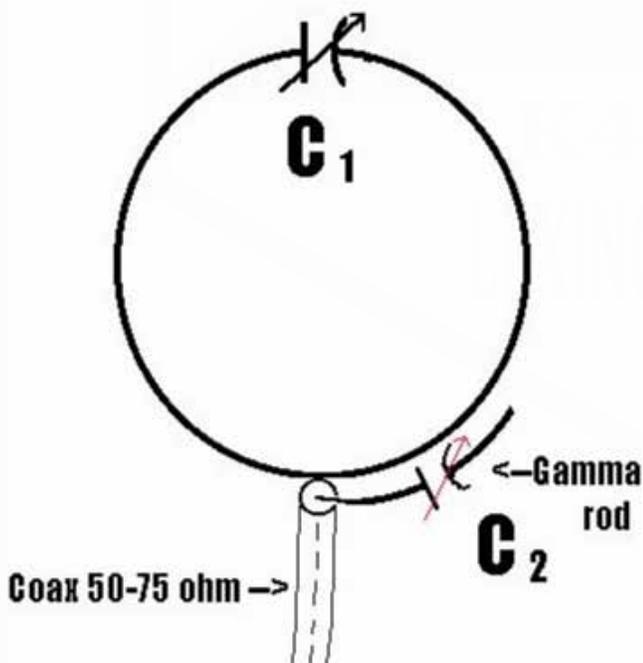
IW5EDI Simone – Ham-Radio

Halo for 6 meters band

Posted in VHF Antennas

A good antenna that can be used for the car as well as the house is an HALO. This antenna maintains good omni-directional horizontal polarization. Basically the antenna is a half wave dipole bent into a circle, BUT shorter than a dipole for this frequency. The circumference is 60-70 inches. By using the gamma match (see above) you can use regular coax. This is a high-Q antenna. So bandwidth is about 200khz. (Perfect for 50.100-50.200 where most of the 6m ssb activity is)

6 Meter Halo Antenna



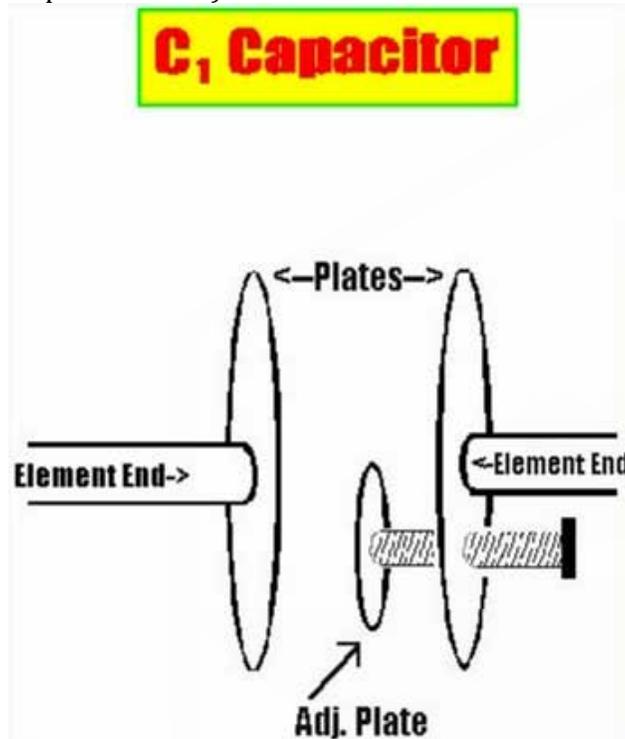
The 2 large discs can be about 4-5 inches round and the small disc about 1.5 inches. Mount the 2 larger discs at the ends of the halo by screwing end caps to the center of them and then the end caps will go over the ends of the halo. Next drill a small hole in one of the larger discs and the same size hole in the exact center of the small disc. Put a 2 inch bolt through the center and run a nut up the bolt to lock it in place. Then a nut on each side of the large disc to secure the bolt to the larger disc.

(continued on page 11)

(continued from page 10, IW5EDI)

Mount the gamma rod the same as you did on the beam (see above) BUT bend the gamma to match the curve in the halo. Finally take three 2-3 inch nylon spacers and mount them between the large discs. You should drill 3 holes in a triangle pattern and use 3 nylon bolts and nuts. This will ensure that the ends plates do not move around on you. You can mount this antenna on a mast by making some type of bracket for support.

(Just try to put the bracket by the mount where the coax/gamma is so that the mount should not affect the antenna performance.)



To match the antenna simply move the gamma around a few times (move it in small increments it really tough). Once you get the S.W.R. down below 3:1 then move the small disc by loosening the nut and turning the small disc. (AGAIN move it in small increments)

Related Posts via Taxonomies

- 6m J-Pole by WB5CX
- 2 Element Yagi for 50 Mhz
- 4 Element Yagi for 6 meters
- J-pole Antenna Revisited Yet Again
- VHF/UHF Quad Antenna
- Mirrored J-pole
- Single Coax Feed to Multi-Band Copper Cactus Antenna
- Single band copper pipe "J" Antenna
- Six Meter Wavelength Band Antennas

<https://www.iw5edi.com/ham-radio/4499/halo-for-6-meters-band>

NOTICE TO MEMBERS

The Treasurer's Report or any financial reports will not appear in the Newsletter. The Treasurer's reports are available to any BARS members in good standing. You will need to request the report that you would like to have. Send email to: KB4FEE@ARRL.net

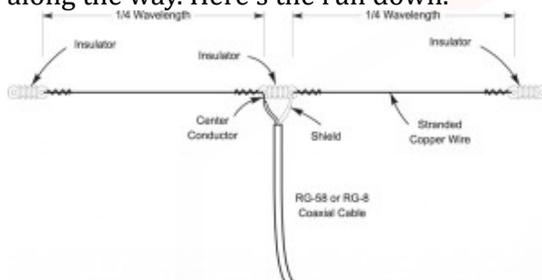
Six Meter Antennas — I've Tried a Few

Cardinal Rule #1 — You Can Never Have Enough Antennas

By
Jim-K5ND

8-June-2020

Antennas are always fascinating, with lots and lots of options from homebrew to buy it off the shelf. Then there's the Magic Band where the antennas are small enough to fit in your backyard or even your attic. I've tried a few along the way. Here's the run down.



What's not to like about a six meter dipole? It's simple and easily built.

Roughly 9 feet from tip to tip, it can fit most anywhere. It is horizontally polarized, which purportedly is best for VHF DX. And, it works.

My write up on my own efforts at Six Meter Dipole has been the post with the most traffic on this website since it was published in 2014. So it must be a popular option as well. I'll also note that I've worked Argentina and Uruguay using that dipole and 100 watts.

MA6V in the clear, up 20 feet

Here my experience has been surprising given the prevailing wisdom that you must be horizontally polarized for VHF DX. I would imagine that is true above six meters. But my own experience has been eye-opening. In 2011 I purchased a Cushcraft MA6V vertical that covers 20 to 6 meters. This added to my HF contest capabilities. Here's my blog post HF Verticals. I avoided using this antenna on six since at first I had the dipole and later a Moxon followed by a 3-element Yagi. But, over the past few years the only antenna I had was the vertical. So I started working stations on FT8 and to my surprise they answered. That included Scotland, my first European six meter contact. I will note that the MA6V is an offset center fed vertical dipole. And mine is mounted at roughly 20 feet above ground.

So, a vertical is definitely worth trying on six meters. Plus, it's easier to fit into the yard.

Six Meter Stressed Moxon

Six Meter Vertical



(continued on page 13)

(continued from page 12, six meter antennas

Moxon's are my favorite type of antenna. My first experience was with a homemade 15 meter version that snagged lots of QSOs for my single-band contest entries. The advantages of these antennas are: directional, good front-to-back, and smaller than a Yagi. With the tips of the driven element and reflector bent to nearly touch, it squeezes the width of the antenna into a much smaller space. I've posted a 15 meter moxon video too. The Par Electronics Stressed Moxon brings this compact design to six meters. It works great with good gain, sound front-to-back rejection, and incredible construction. I've used it for years at home on a push-up mast and more recently on my rover operations. It can hit a tree and be bent back into shape for the next grid stop — don't ask me how I know.

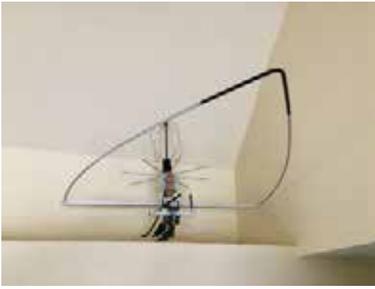
While the gain isn't as great as the multi-element Yagis, I like that its broader beamwidth covers a lot of ground without needing to tweak the rotator. That works great for contests when the band is open.

This is easily my favorite six meter antenna.

Six Meter Yagis — 3 Elements



Next up in my six meter antenna journey was trying to find a bit more gain while still fitting the antenna into my yard. I did a fair bit of review of the available options and selected the InnovAntennas 3-element LFA. Click the link to learn more about my experience. It works nicely and offers reduced noise, although I wasn't able to discern much difference. I used that antenna for quite some time. The construction is rock solid but sitting up there on top of a push-up mast along with the rotator, made me pretty nervous in the high winds that sweep through from time to time. So, after a while trying to discern a big difference with the Moxon, I put the Moxon back on the push-up mast. (continued on



Recently, I've purchased an M2 6M-3SS Yagi. Click on the link to learn more. My motivation here was to find a higher gain antenna than the Moxon for use on a temporary installation with push-up mast in my backyard. I use this for the Summer Es season. Plus, I often use it during rover operations in the CQ WW VHF Contest where I only activate a couple of grids. ecently, I've purchased an M2 6M-3SS Yagi. Click on the link to learn more. My motivation here was to find a higher gain antenna than the Moxon for use on a temporary installation with push-up mast in my backyard. I use this for the Summer Es season. Plus, I often use it during rover operations in the CQ WW VHF Contest where I only activate a couple of grids. Given that temporary use, I wanted a Yagi that could be easily taken apart and put back together again for transport and storage. I also wanted a lightweight antenna for use on the push-up mast. This one fits the bill nicely and I've already worked a number of new DXCC countries in Europe and South America from my backyard installation. The LFA would not have worked in this application as it is heavy and a fairly complex build. It's better for a permanent installation. 6 meter omniangle along with a 222 MHz omniangle and 432 MHz eggbeater. I have antennas! My first use of the Par Electronics Omniangles was on two meters and 70 cm. They worked great to get me started on those higher bands, plus they offered horizontal polarization. Of course, I later added cheap Yagis, Diamond Yagis, and now Directive Systems Rover Yagis for those bands. You just can't have enough antennas. Recently I've added the six meter Omniangle positioned in the alcove over my ham shack. I haven't done too much with the antenna yet. It's purpose is to provide a six meter antenna during the winter when my temporary push-up mast Yagi installation is in storage.

I like the concept with true omnidirectional coverage and am fascinated by the concept of stacking a couple to achieve some gain. I'll need to report later on my results here.

There are Always More Options

There is always one more type of antenna to try out, no matter how many you've worked with in the past. For example, quads have always been on my list.

I hope my experience with six meter antennas can help you get started down this path or perhaps confirm some of your own experiences. Good luck with your antenna journey on the Magic Band.

Jon Jones, N0JK, editor of QST's World Above 50 MHz column, sent me these additional comments about his experience with six meter antennas. Thanks, Jon.

I have made many contacts using a simple mag. mount 1/4 wave whip. Best DX with this setup on 6 was Argentina from Maui, HI back in 2015 - LW3EX on CW. I decoded a dozen different JA stations on FT8 back in June 2018 on it. Signals up to -10. Tried hard, but no Qs. It is great for mobile/fixed portable sporadic-E.

M2 Loop — Used in the attic. Works, though some RF on the feedline. Best DX was G8BCG on sporadic-E a few years ago. Dipole. Currently have one in the attic at home. Low SWR, lower noise and works. Oriented currently to favor SE - NW. Can work other directions with some loss of gain. Worked KH6/K6MIO using it November 2015 on 6 F2.

I have not used the Moxon. I use a 2 el yagi for most of my portable work. It has about the same gain as a Moxon. Mine goes together in minutes. Very efficient little antenna. With it - worked the JA's I had decoded on the whip.

M2 6M-3SS. I have one. It is a great antenna, but takes longer to put together in the field and is heavier. Have not used the LFA. Many like them.

Speaking of more options. I've added a Directive Systems 5-element Yagi for use at home and when activating a few relatively rare grids. There's always more aluminum to add.

<https://www.k5nd.net/2020/06/six-meter-antennas-ive-tried-a-few/>

Call for Nominations - Ernie Farmer Memorial Award

Nominations are requested for the person you feel meets or exceeds the below-listed qualities as related to amateur radio and its many diverse and varied activities. Nominations should be sent to Brad James/WA4HBM, President, Bluegrass ARS, Inc., PO Box 13206, Lexington, Kentucky 40583..

The person selected from your nominations will be honoured during a special award ceremony held during the annual picnic September 13, 2021. Many arrangements must be made, so do not put this off.

Rules

1. This award is to be presented during the annual picnic.
2. The call for nominations must be published in the Bluegrass ARS newsletter three consecutive months prior to the deadline for nominations, which is thirty (30) days prior to the picnic. Any nominations received after that date (August 13, 2021) will not be considered.
3. Nominations must be in writing and signed, or by e-mail with submitters name clearly shown, with specific and adequate information describing why the nominee should be considered.
4. Areas of consideration:
 - a. Involvement in public relations.
 - b. Operating excellence.
 - c. Involvement in public service.
 - d. Assistance to prospective and/or licensed amateurs.
 - e. A combination of these for the general furtherance of amateur radio.
5. The President shall appoint a committee of no less than three to consider nominations and select the winner. The committee shall select the winner within two weeks after the deadline and procure an appropriate plaque in sufficient time to permit presentation at the picnic. Also, the committee will write a letter of commendation outlining the reasons for the award. This is to be presented along with the plaque.
6. The winner will be notified prior to the hamfest to permit acceptance of the plaque and the letter and attendance at the picnic.
7. The name of the winner and the contents of the commendation letter will be published in the Club newsletter following the picnic.

The Central KY ARRL Hamfest (BARS) scheduled for August 14, 2021 has been cancelled.

Due to the virus, many vendors were still reluctantly not participating in hamfest.

We will be looking to again hold our Hamfest next year.

Previous Winners of the Ernie Farmer Memorial Award

The following persons have previously been selected by their fellow Hams as possessing the characteristics listed in the Call for Nominations. You probably recognize many of the names and call signs because they are always there when needed and do not hesitate to get involved.

- | | |
|--|---------------------------------|
| 1979 - Sam Humphries/WA4KKV | 2012 - Pete Clough/WD4GPO |
| 1980 - William Alcock/W4CDA (Danville) | 2013 - Pat Hayden/AI4W |
| 1981 - Bill Shepherd/W4AUZ | 2014 - Glenn A. Dawson/AK4HA |
| 1982 - Mike Mahlbacher/WA4UQA | 2015 - No nominations received |
| 1983 - Ed Bono/WA4ONE, and
Harry Bradshaw/W4TPB (SK) | 2016 - Joseph Wallace/KE6IVK |
| 1984 - Bill DeVore/N4DIT | 2017 - Christopher Gay/KU4A |
| 1985 - Ed White/KD4TQ (SK) | 2018 - David Richardson/W9KHZ |
| 1986 - Scott Hackney/KI4LE | 2019 - Bart Breeding/KB4FEE |
| 1987 - Nan Muth/AA4UN, and
John Boyers/W8OM (Plain City, Ohio) | 2020 - No nomination determined |
| 1988 - No nominations received | |
| 1989 - Bill Woodward/KC4CHF (SK), and
Jim Odom/WA4GHQ (now AC4FP, SK) | |
| 1990 - John Thernes/WM4T (Covington) | |
| 1991 - John Crutcher/KC4DUU | |
| 1992 - Bobby Rolph/KB4QNR | |
| 1993 - Ralph Herndon/KN4DF | |
| 1994 - Johnie Watson/KC4JNR (now NA4J) (SK Feb 2013) | |
| 1995 - Paul Mitchell/N4DUE | |
| 1996 - Bill Fuqua/KO4WW (now WA4LAV) and
Jim Muth/N4CGQ | |
| 1997 - Steve McCallum/K4URX (W2ZBY) (SK) | |
| 1998 - Harry Sparks/KN4S | |
| 1999 - None awarded | |
| 2000 - Ron Ritchie/KF4MOM | |
| 2001 - Ron Dodson/KA4MAP (Webster, Kentucky)
- James Craig McKechnie/KE4FFQ | |
| 2002 - Lou Berry/AG4LB, and
Pat Spencer/KD4PWL | |
| 2003 - John Bell/K4RBH (Honorary Presentation, SK),
Fernie Williams/KE4MAI and
Jerry B. Young/WA4WWH | |
| 2004 - Tom Mansfield/KG4TND | |
| 2005 - Darryl Bennett/KD4CSW | |
| 2006 - Greg Cross/WA8FJK | |
| 2007 - Margueritte Williams/KE4MAJ | |
| 2008 - Jeanie Dalton-Pugh/KB8QLC | |
| 2009 - No nominations received | |
| 2010 - No nominations received | |
| 2011 - Brad James/WA4HBM | |

Countdown to W4DXCC

September 24th and 25th, 2021, Pigeon Forge, TN

Breaking News!

Hello Friends and Club Officials

Please pass along this W4DXCC Convention announcement to your club members and friends.

We are EXCITED to report that the W4DXCC DX and Contest Convention WILL hold it's 16th convention September 24-25th, 2021!!

We have an awesome group of presenters this year that I know will interest everyone. Friday is the Ham Radio Bootcamp where we do our best to provide the knowledge to New and Experienced Hams alike.

Saturday is the main convention where we have numerous well known presenters, giving you the inside scoop on what is going on in amateur radio. Following each presentation we have time for questions if you would like to know more.

We have the leading radio and equipment manufacturers setup in the lobby with the latest gear for you to twist the knobs. More importantly you can have a one on one to ask questions about the gear with the company representative in a relaxed environment.

We have a fully operational Ham Shack setup where you can come learn and make QSO's in different modes.

It is time to make your Hotel reservations for this years convention. You can NOT make Online reservations for this event!

Call them on the phone at 865 428-8350 and be sure to tell them you are with W4DXCC to get the special rate.

Convention Registration will open soon including Online Ticket Purchasing. Coming Soon. Check out the Website and learn about the W4DXCC DX and Contest Convention. Go Here [W4DXCC Convention](#) See you soon,

Dave Anderson, K4SV

Convention leader

Dave@w4dxcc.com

Best 73

Richmond Hamfest

Did you miss us in 2020? We sure missed
you! Come see us in 2021
Sept 18 2021

Sponsored by the

BLUEGRASS AMATEUR
RADIO SOCIETY, INC.

Central Kentucky Amateur Radio Society

September 18, 2021

8:00 AM – 1:00 PM (Eastern time)

REMINDERS

If you have not paid your dues for 2021 yet, please do so. You will not be able to vote in the upcoming club officer election. You must be a paid member to participate in the election. It is important that your voice is heard and you have a voice in how the club is operated.

All members with 2021 paid dues can pick up a free club patch. Also, as long as they last you can purchase 2 additional patches for \$5.00. Please bring exact change (we can't make change).

The annual dues run during a calendar year, January to December. If you join during the year, the dues are pro rated based upon when you join. Also, dues are \$20.00 per year, with a 60-day grace period ending on the last day of February. If you pay for multiple years, you get a discount:
2yrs. is \$38
3 yrs. is \$55

Fayette County ARES Coordinator - Jewell Vest

The Fayette County ARES net has resumed. Remember the Fayette County ARES net every Tuesday at 8:30 pm on the 146.94 repeater.

We are looking for more folks that would help share in the net control. If you would like to Help, contact Bart Breeding, KB4FEE at KB4FEE@arrr.net

New Rag chew net on Wednesday evening at 8:00 pm and on Saturday morning at 9 am. The net is located on the 146.760 repeater with a negative offset and no PL tone.

SEE YOU THERE!!!

Please find below the link to the Club's Ebay Account. Copy it into your browser and check out the items the club has up for auction.

<https://www.ebay.com/sch/bluegrassars/m.html>

BARS E-BAY SALES AND AUCTION SALES OF SURPLUSSED EQUIPMENT

The BARS Board of Directors has adopted a method for the disposal of all items in our donated equipment inventory through the transfer of ownership by making them available for purchase by open public auctions and sales. We have determined that it is to the optimum benefit of BARS that we try to obtain the maximum amount for each item, or related sets of items, by accepting only the highest value received through as fair, and as equitable, and as impartial a public process as reasonably possible. In this way we endeavor to eliminate any impressions of advantage or disadvantage to anyone or group wishing to obtain by purchase any item or items.

Our process in operation now is to periodically, and more-or-less continuously, move a somewhat small and easily manageable group of equipments, selected to some extent at random, from a storage facility to the BARS room at the Red Cross Building. At the BARS room, the equipment is basically evaluated (maybe even "smoke" tested) to determine a reasonably accurate and reliable description of its condition. Any equipments that we envision may be of utility to the Club are retained for use in the shack or the shop. Those items that are marked for sale through E-Bay are weighed and photographed, and then researched in an effort to determine their histories and current comparative values. After that, the equipment's descriptive file, including our asked and reserve price, is up-loaded to the E-Bay sales website under our "Bluegrassars" account to make our intentions universally known that the equipment is publically available by timed auction or instant fixed-price purchase. In this way we are trying to keep up a simple uninterrupted cycle of listings, purchases, and shipments which will eventually deplete our inventory of donated and surplus items and eliminate our need and the expense for a rented storage facility.

The current (and previous) BARS Bylaws in its Preamble is specific in its intention that "*No part of the resources, and/or property, and /or net earnings of the corporation, if any, shall inure to the individual benefit of, or be distributed to, any of its members, trustees, directors, officers, or other private persons...*". In order to insure our own compliance with our own rules, no offers for purchase of any Club owned items will be considered that are not conducted in an open public venue or setting by the methods currently adopted by BARS. This prevents any perception of preference to any purchaser, including Club members, and provides an element of assurance that the Club realizes a monetary amount that was determined by as fair a market demand value attainable at the time of the sale. We generally consider this approach is of the overall advantage to BARS, its members, as well as any others involved in these types of financial transactions with the Club. In addition, the Club has established a reputation through E-Bay of reliable and highly-rated service which has allowed us to increase our listings due to our so-far proven credibility. The Club intends to maintain this commendable level of association with E-Bay as our outlet for sales of our major surplus'd electronics equipment.

There is a prior knowledge of the items that will be coming to sale by some of the Club members who assist and help with the moving from the storage unit to the BARS room. During the interim period between transporting, preparation, and posting for sale on E-Bay, the items are normally "on display" in the BARS room except for those of exceptional condition and value that are securely stored away to prevent damage or theft. Also, once an item is posted on E-Bay and before its final sale, it is available by appointment for a hands-on, non-destructive, inspection by anyone interested in attaining the item only through the E-Bay venue. The E-Bay sale amount transaction includes the final accepted item price, plus applicable sales tax and estimated shipping costs based on weight and method, that will all be paid by the buyer. The Club receives a net amount after E-Bay listing fees and financial transaction fees are deducted. The difference between the E-Bay assessed and the Club's actual shipping costs are subsequently reconciled by BARS. A local or nearby buyer can forego the E-Bay determined shipping costs by opting for a local in-person pick-up arrangement scheduled at the BARS room with proper purchase confirmation paperwork.

Minor items and equipments that have been judged and determined to be of relatively low nominal value and demand and that probably will not be successfully sold on E-Bay, have been set aside for simpler disposal but still by fair public sales methods. Various assortments of the Club's recently attained donated and then surplus'd items have been sold at the silent auctions conducted at our Hamfests in 2019 and 2018, where the Club deducted the applicable sales tax from the winning bid price rather than add the sales tax on to the buyers cost. A pleasant situation occurred recently when one, if not two, hamfest attendees offered a one-price, take-it-or-leave-it-right-now, amount for some equipment before the close of the silent auction. We could not in good conscience change the rules in fairness to those who had and would be actively bidding on the same item(s). The prospective purchaser was encouraged to place his bid on the auction sheet (with a contact number) as others had, and then see how the offers proceeded. At the end of the auction, the winning bid was from the "one-price" buyer whose unbeaten offer was less than the on-the-spot price he originally proposed. Should BARS have held him to his first bargain? The Club retained its honor and reputation, and our patron retained the difference in his wallet.

The decision of the Board of Directors to respectfully not accept offers for privately arranged purchases of BARS property reflects our position to consider the best interests of BARS and its members and other stakeholders who rely on the Club as an organization to operate with the knowledge of all concerned constituents in an open and visible, even if less than an expedient and seemingly unaccommodating, unbiased and objective manner.

Schedule for Volunteer Examinations in 2021

Harry Spark/KN4S,*
Bluegrass Volunteer Examiners
kn4s@kn4s.com

The exam schedule for 2021 follows nearly the same format as past years. The scheduling is for Lexington/Fayette County and the sessions in Danville, Georgetown, Winchester, and Richmond hamfest. The Bluegrass Amateur Radio Society-sponsored ARRL exams will continue to be held on the second Saturday of the second month of each quarter (except the August Session will be the date of the Central Kentucky ARRL Hamfest in Lexington), and the WCARS sessions remain as they were last year, Tuesday evenings quarterly.

Test Session Locations

Lexington*	Winchester**	Danville	Georgetown
Red Cross Building	Clark County EOC	Amer Legion Post 46	Georgetown Police Dept
1450 Newtown Pike	200 Maryland Ave	45 Spears Lane	550 Bourbon Street
Lexington KY 40509	Winchester KY 40391	Danville KY 40422	Georgetown KY 40324

* August, Bluegrass ARS Hamfest, Eastland Shopping Center, Lexington, Kentucky
** September, Richmond Hamfest, Madison County Fairgrounds, Richmond, Kentucky

Contact Information

ARRL VEC: Lexington and BARS ARRL Hamfest test sessions - Liaison **Fernie Williams/KE4MAI**, ke4mai@arrl.net, 859-652-3393
(www.bluegrassars.org)
Danville - Liaison **Harold Miller/AF6MB**, 541-602-6535
, Wilderness Road ARC, <http://www.wrarc.com>
Georgetown - Liaison **Ron Malinowski/WX4GPS**,
wx4gps@arrl.net, 502-542-8252
WCARS VEC: Lexington - Liaison **Marguerite Williams/KE4MAJ**,
ke4maj@arrl.net, 859-489-6274 (www.bluegrassars.org)
W5YI VEC: Winchester - Liaison **Darrell Epperson/AC4YD**,
AC4YD@arrl.net, 859-771-1834

TEST SESSION FEE: ARRL - \$15; WCARS - \$10; W5YI - \$14

Date and Time	VEC	Location
Saturday, July 10, 2021 10:00 am Pre-registration Required Further information, contact Darrell Epperson/AC4YD 859-771-1834 Pre-register here: https://hamstudy.org/sessions/ac4yd	LEXINGTON KY	Clark County Emergency Operation Center 200 Maryland Ave, Winchester KY 40391
Saturday, July 24, 2021 10:00 am (ARRL VEC) Pre-registration Required Sponsored by Wilderness Road Amateur Radio Club Further information, contact Harold Miller/AF6MB 541-602-6535 Pre-register here: https://hamstudy.org/sessions/600ee6b6ffa7c8923d96b7b8/1		American Legion Post 46 45 Spears Lane, Danville KY 40422
Tuesday, July 27, 2021 6:00 pm (Laurel VEC) K4TG Laurel VE Team Further information - contact Brian Carter/KI4TLW 502.545.037		Church of Jesus Christ of Latter-Day Saint-main Hall 101 Bogie Lee Ave, Frankfort KY 40601

Contest Corral

July 2021

Check for updates and a downloadable PDF version online at www.arrl.org/contest-calendar.

Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

Start - Finish Date-Time	Finish Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
1 0000	1 2359	1.8-144	RAC Canada Day Contest	CW Ph	RS(T), VE province/territory or serial	www.rac.ca
1 1700	1 2100	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	nrrfcontest.no
1 1900	1 2100	1.8-50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
2 0145	2 0215	1.8-21	NCCC RTTY Sprint	Dig	serial, name, QTH	www.ncccsprint.com
2 0230	2 0300	1.8-21	NCCC Sprint	CW	serial, name, QTH	www.ncccsprint.com
3 1100	4 1059	3.5-28	DL-DX RTTY Contest	Dig	RST, serial	www.drcg.de/dldxrtty
3 1400	4 1400	1.8-28	Marconi Memorial HF Contest	CW	RST, serial	www.arifano.it
3 1500	4 1500	3.5-14	Original QRP Contest	CW	RST, serial, power category	www.qrpcc.de/contestrules
3 2000	4 2000	7	PODXS 070 Club 40-Meter Firecracker Sprint	Dig	RST, SPC	www.podxs070.com
5 0000	5 0100	1.8-14	K1USN Slow Speed Test	CW	Max 20 WPM, Name, SPC	www.k1usn.com/sst.html
5 1900	5 2030	3.5	RSGB 80-Meter Club Championship, CW	CW	RST, serial	www.rsgbcc.org/hf
6 0100	6 0159	1.8-50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM, YL, or youth)	www.sac.com/rules.html
6 0100	6 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	arsqrp.blogspot.com
6 1700	6 1900	3.5-14	RTTYops Weekspint	Dig	Other's call, your call, serial, name	rttyops.wordpress.com
7 1300	7 1400	1.8-28	CWops Mini-CWT Test	CW	Name, mbr or SPC	cwops.org/cwops-tests
7 1700	7 2000	144	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
7 1900	7 2000	1.8-28	CWops Mini-CWT Test	CW	Name, mbr or SPC	cwops.org/cwops-tests
8 0300	8 0400	1.8-28	CWops Mini-CWT Test	CW	Name, mbr or SPC	cwops.org/cwops-tests
8 1700	8 1900	3.5-14	RTTYops Weekspint	Dig	Other's call, your call, serial, name	rttyops.wordpress.com
9 2000	9 2100	1.8-14	K1USN Slow Speed Test	CW	Max 20 WPM, Name, SPC	www.k1usn.com/sst.html
10 1200	11 1200	1.8-28	IARU HF World Championship	CW Ph	IARU HQ: RS(T) + IARU Society; Non-HQ: RS(T) + ITU Zone.	arrl.org/iaru-hf-world-championship
10 1200	11 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
11 2000	11 2300	1.8-28	QRP ARCI Summer Homebrew Sprint	CW	RST, SPC, mbr or power	qrparci.org
12 0000	12 0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	www.4sqrp.com
14 1700	14 2000	432	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
14 1900	14 2030	3.5	RSGB 80-Meter Club Championship, SSB	Ph	RS, serial	www.rsgbcc.org/hf
15 0030	15 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info
17 0700	17 1459	7-28	Russian Radio Team Championship	CW Ph	RS(T), RRTC code or ITU zone	srr.ru/championat-rossii-poradiosvyazi-na-kv-rrtc
17 0800	17 1400	1.8-7	Trans-Tasman Low-Bands Challenge	CW Ph Dig	RS(T), serial	wia.org.au/members/contests
17 1000	17 2159	3.5-28	YOTA Contest	CW Ph	Age	ham-yota.com/contest
17 1200	17 1359	1.8-50	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	sites.google.com/site/feldhellclub
17 1800	18 0559	3.5-28	North American QSO Party, RTTY	Dig	Name, SPC	www.ncjweb.com
17 1800	18 2100	50, 144	CQ Worldwide VHF Contest	CW Ph Dig	4-char grid square	www.cqww-vhf.com
18 0900	18 1600	3.5-14	RSGB Low Power Contest	CW	RST, serial, power	www.rsgbcc.org/hf
18 2000	18 2159	14	CQC Great Colorado Gold Rush	CW	RST, SPC	www.coloradoqrpclub.org
18 2300	19 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	qrpcontest.com/pigrun
22 1900	22 2030	3.5	RSGB 80-Meter Club Championship, Data	Dig	RST, serial	www.rsgbcc.org/hf
24 1200	25 1200	3.5-28	RSGB IOTA Contest	CW Ph	RS(T), serial, IOTA # (if applicable)	www.rsgbcc.org/hf
25 1700	25 2100	7-28	ARS Flight of the Bumblebees	CW	RST, SPC, power or bumblebee number	www.arsqrp.blogspot.com
26 1900	26 2030	3.5-14	RSGB FT4 Contest Series	Dig	4-char grid square	www.rsgbcc.org/hf
28 0000	28 0200	1.8-50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
31 1200	1 1159	1.8-28	Russian WW MultiMode Contest	CW Ph Dig	RST(Q), oblast or serial	www.rdrclub.ru
31 1400	1 2000	1.8-UHF	Missouri QSO Party	CW Ph Dig	RS(T), MO county or SPC	www.w0ma.org

There are a number of weekly contests not included in the table above. For more info, visit: www.qrpfoxhunt.org, www.ncccsprint.com, and www.cwops.org. All dates refer to UTC and may be different from calendar dates in North America. Contests are not conducted on the 60-, 30-, 17-, or 12-meter bands. Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity, XE = Mexican state. Listings in blue indicate contests sponsored by ARRL or NCJ. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. Data for Contest Corral is maintained on the WA7BNM Contest Calendar at www.contestcalendar.com and is extracted for publication in QST 2 months prior to the month of the contest. ARRL gratefully acknowledges the support of Bruce Horn, WA7BNM, in providing this service.

QST JULY 2021

American Red Cross

In the spirit of community service, and with thanks for the years of support.

The Bluegrass Amateur Radio Society, Inc., Board of Directors has agreed to starting a new program beginning January 2022. The Board has agreed that all donations made by club members to the American Red Cross, Bluegrass Chapter, through the BARS club, that they will match the total amount given by the club members, up to a total of \$1,200.00 for the year.

Additional information on how to participate in this program, will be published later.

Program Schedule for 2021

Brad James, WA4HBM, Chair, Program Committee
Bluegrass ARS, Lexington, Kentucky

The following programs are scheduled for 2021. Your input and suggestions for programs for 2021 are needed. Call Brad James at 859-293-5893 or e-mail at sophie16@twc.com/.

Month	Topic	Presenter(s)	Comments
✓ January	"Winter Field Day" January 30-31,2021	David Richardson/W9KHZ	
✓ February	cancelled due to virus		
✓ March	SkyWarn Presentation byway of ZOOM	Brad James	see zoom notice page 19
✓ April	DBJ-1 and DBJ-2 antenna	Ed Fong	zoom meeting see page 6
✓ May	Zoom meeting May 3, 2021 7:30 pm		see page 4
✓ June	cancelled due to virus	Field Day June 26-27, 2021	
✓ July	NOT DETERMINED		
August	Hamfrest cancelled		
September	Annual Family Picnic	September 13, 2021	
October	NOT DETERMINED		
November	NOT DETERMINED		
December	Election	Brad James	

Meeting Schedules for Area Clubs, Exam Sessions, etc.

Volunteer examinations are held in or near Lexington on a schedule that has tests in central Kentucky every month of the year. Schedules for area sessions, plus meetings, etc., are as follows:

The Bluegrass Amateur Radio Society, Inc. (Lexington) - (Fernie Williams/KE4MAI (ARRL - \$15.00) and Margie Williams/KE4MAJ(WCARS- \$10.00)), with Darrell/AC4YD in Winchester and Richmond (W5YI), John/K4FT in Danville (ARRL), and Ron/WX4GPS in Georgetown (ARRL - \$15.00), have a schedule to offer an exam monthly in Lexington/central Kentucky. (See schedules on page 10 of this newsletter). ARRL sponsored tests are held the second Saturday of the month, 10:00 AM in the Red Cross Building, Meeting Room "B", 1450 Newtown Pike, Lexington (except the August session is the Saturday of the second weekend of the month and is held at the site of the Central Kentucky ARRL Hamfest), and WCARS sponsored sessions are held the third Tuesday of the scheduled month, 7:00PM in Meeting Room "A" in the Red Cross Building, 1450 Newtown Pike, Lexington. Contact Margie/KE4MAJ at 859-489-6274 or email to ke4maj@arrl.net. Go to <<http://www.lexkywcars.org>> for information.

Winchester (W5YI VEC) - They are located in the Clark County EOC, 200 Maryland Avenue, Winchester, Kentucky. Their 2019 schedule (10:00AM): Saturday, January, 12, Saturday, April 13, Saturday, July 13, and Saturday, October 12. Contact Liaison Darrell Epperson/AC4YD, AC4YD@arrl.net, 859-771-1834

Danville (ARRL VEC) - Test sessions are fourth Saturday in January, April, July and October at 10:00 AM. Liaison Harold Miller/AF6MB, harod.p@miller.org, 541-602-6535, Wilderness Road Amateur Radio Club, American Legion Post 46, 45 Spears Lane, Danville, KY 40422 - Repeater 145.310 (100 pl).

Georgetown (ARRL VEC) - Liaison Ron Malinowski/WX4GPS, wx4gps@arrl.net, 502-542-8252, Georgetown Police Dept, 550 Bourbon St., Georgetown (for dates see schedule on page 4 of this newsletter).

Radio Theory and Construction Workshop - Each Saturday 1:00-3:00 PM in the Bluegrass ARS Education Center, basement of the Red Cross Building, 1450 Newtown Pike, Lexington. Contact Bill Fuqua/WA4LAV at (859) 272-9523 or wa4lav@arrl.net.

Versailles/Woodford County - The Woodford County Amateur Radio Club meets the first Wednesday of each month at 7:00 PM in the Versailles Fire Station No. 2 on Big Sink Pike (38°3'34" N 84°43'11"W). Anyone interested in amateur radio is cordially invited. Also, visit their web site at <<http://www.ky4wc.org>>. You may contact Todd Rose/KE4YAH (atrose@windstream.net).

Fayette County ARES Net - Tuesday, 8:30 PM, 146.940 (-600 Tone 88.5) repeater.

Amateur Television and Specialized Communications Net

- An informal meeting is held every Sunday evening at 9:00 PM (local time)

on the 146.760 (-600 offset) repeater in Lexington.

Kentucky Six-Shooters Net - Wednesday evenings at 9:00 PM six meters FM on 52.525 MHz (vertically polarized). David Jordan/KI4AWZnet control; and, Daily Six-Meter FM Ragchew net 7:00-9:00 PM on 52.525MHz (vertically polarized). James Peel/KG4VAR net control.

KY-QRP - Suspended for the time

Scott County Amateur Radio and Emergency Service Club (SCARES) - Meetings are the third Saturday each month, 9:00 AM in the Solarium room at Georgetown Community Hospital, 1140 Lexington Road, Georgetown. Check in to their weekly simplex net Tuesdays at 7:00 PM on 146.685 (PL 141.3).

Central Kentucky ARS (Richmond-Berea) - Meet the Third Thursday each month in the Madison County EOC, Richmond, Kentucky, at 7:00 PM. Talk-in on 146.865 (-600, PL-192.8 Hz) and 145.370 (-600, PL-192.8 Hz) repeater for location, directions to meeting site, or other information.

Greater Mason County ARA meeting, 7:00 PM, second Tuesday each month, Maysville-Mason County EOC (station call KY4MME on QRZ). 668 Kenton Station Road, Maysville, KY 41056.

Pioneer ARC (Winchester) - Fourth Tuesday each month, Golden Corral Restaurant, 7:00 PM (eat at 6:00), except March 17 meet at Christview Christian Church (SkyWarn). Talk-in/info on 145.430 (-600, T-203.5).

Jessamine Amateur Wireless Society (Nicholasville) - Meet Second Monday each month, 7:00 PM, St. Joseph/R.J. Corman Ambulatory Care Center, 1250 Keene Road (U.S. 27 Bypass south to intersection with 169; turn at the light.) Talk-in on the 145.490 (T-123.0).

The Jessamine County ARES Net - Tuesdays at 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.

The Madison County ARES Net, Monday at: 7:00 PM, 146.865 (pl 192.8). Everyone is invited to check in. . . Wilderness Trail Emergency Net, Wednesdays, 8:30 PM, 146.715 (pl 100.0). . . Glenn/KO4OL.

District 9 ARES Net Thursdays with early check-ins starting around 6:45 PM ET and the formal net starting at 7:15 PM ET on 147.180(+) PL 74.4 and 146.745(-) PL 100 [both in London]; 146.835(+) TSQ 100 [Pineville]; 224.960(-) TSQ 203.5 [Pine Mountain]; 442.850(+) PL 103.5 [Cumberland Gap] and 444.250(+) TSQ 107.2 [Black Mountain]. The net is also available on the following VOIP connections: EchoLink KE4GJG-R, KK4MJZ-R, WA4ROB-L, KK4WH-R, WA4ROB-R, or AF4Y-R; YSF node 75056, DMR TG 312128 and Hamshack Hotline Extension 94031

Cumberland Valley VOIP Weather Net each Sunday starting at 8 PM ET on 147.180(+) PL 74.4 and 146.745(-) PL 100 [both in London]; 146.835(+) TSQ 100 [Pineville]; 224.960(-) TSQ 203.5 [Pine Mountain]; 442.850(+) PL 103.5 [Cumberland Gap] and 444.250(+) TSQ 107.2 [Black Mountain]. The net is also available on the following VOIP connections: EchoLink KE4GJG-R, KK4MJZ-R, WA4ROB-L, KK4WH-R, WA4ROB-R, or AF4Y-R; YSF node 75056, DMR TG 312128 and Hamshack Hotline Extension 94031

Please send any changes or corrections to these notices to my attention, Bart Breeding/KB4FEE, in care of Bluegrass ARS, Inc., PO Box 13206 Lexington, KY, or e-mail to KB4FEE@arrl.net

**The annual Family Picnic for the
Bluegrass Amateur Radio Society, Inc.
will be held on
September 13, 2021
at the Shillito Park shelter #2.
Mark your calendars and plan on
attending with your friends and family.
additional information will be provided
later.**



"Let every nation know, whether it wishes us well or ill, that we shall pay any price, bear any burden, meet any hardship, support any friend, oppose any foe, to assure the survival and success of liberty."

- John F. Kennedy

'LET FREEDOM RING'

"The time is always right to do what is right."

-Dr. Martin Luther King, Jr.

"OVER THE LAND OF THE FREE"

'LET FREEDOM RING'

'LET FREEDOM RING'

'LET FREEDOM RING'

QUA/HAMnews is published monthly by the Newsletter Committee of the Bluegrass Amateur Radio Society, Inc., and is distributed by e-mail only. Letters to the editor, technical articles, items of interest to the Ham community and guest editorials are invited and will be published at the discretion of the editor. Items for sale by members of the Society will be advertised without charge for one issue, and may be resubmitted as often as desired. These ads must be non-commercial in nature.

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Annual Dues (January 1 - December 31)

Payable using Pay Pal - Go to <<http://www.BluegrassARS.org>>, Click on "Membership," click on the option for your preference as below:
Regular Membership: One year - \$20.00; two years - \$38.00; three years - \$55.00 (Additional family member(s) at the same address \$1.00 each per year)
Associate Membership - \$15.00 (for those who reside farther than 50 miles from Lexington)
Full-Time Student Membership - \$12.00 (for those 21 and under, and no other Club member in the family)
Shack telephone: (859) 231-0974 web page: <http://www.BluegrassARS.org/>

Calendar of Ham Radio Activities for JULY 2021

- Thur 1 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control; District 9 ARES Net Thursdays with early check-ins starting around 6:45 PM ET and the formal net starting at 7:15 PM ET on 147.180(+) PL 74.4 and 146.745(-) PL 100 [both in London]; 146.835(+) TSQ 100 [Pineville]; 224.960(-) TSQ 203.5 [Pine Mountain]; 442.850(+) PL 103.5 [Cumberland Gap] and 444.250(+) TSQ 107.2 [Black Mountain]. The net is also available on the following VOIP connections: EchoLink KE4GJG-R, KK4MJZ-R, WA4ROB-L, KK4WH-R, WA4ROB-R, or AF4Y-R; YSF node 75056, DMR TG 312128 and Hamshack Hotline Extension 94031
- Sat 3 Shack closed; Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; License Exam session, 10:00 am, Clark County EOC,200 Maryland Ave., Winchester, KY75YI VEC; Winchester - Liaison Darrell Epperson/AC4YD, AC4YD@arrl.net, 859-771-1834
- Sun 4 Television & Specialized Communications Net, 9:00 PM (146.760 Repeater)
- Mon 5
- Tue 6 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, KY-QRP Net suspended; Fayette County ARES Net 8:30 PM 146.940 with a PL tone of 88.5
- Wed 7 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.715, PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thu 8 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control; District 9 ARES Net Thursdays with early check-ins starting around 6:45 PM ET and the formal net starting at 7:15 PM ET on 147.180(+) PL 74.4 and 146.745(-) PL 100 [both in London]; 146.835(+) TSQ 100 [Pineville]; 224.960(-) TSQ 203.5 [Pine Mountain]; 442.850(+) PL 103.5 [Cumberland Gap] and 444.250(+) TSQ 107.2 [Black Mountain]. The net is also available on the following VOIP connections: EchoLink KE4GJG-R, KK4MJZ-R, WA4ROB-L, KK4WH-R, WA4ROB-R, or AF4Y-R; YSF node 75056, DMR TG 312128 and Hamshack Hotline Extension 94031
- Sat 10 Shack closed; Open Rag chew Net 9:00 am 146.760 neg offset no PL tone; License Exam Session License 10:00 am, Clark County Emergency Operation Center,200 Maryland Ave, Winchester KY 40391, Pre-registration Required , Further information, contact Darrell Epperson/AC4YD 859-771-1834Pre-register here: <https://hamstudy.org/sessions/ac4yd>
- Sun 11 Amateur Television & Specialized Communications Net, 9:00 PM (146.760 Repeater);
- Mon 12
- Tue 13 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern 443.325+ MHz; Fayette County ARES Net 8:30 pm on the 146.940 repeater with a PL tone of 88.5;
- Wed 14 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.715, PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thu 15 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control; District 9 ARES Net Thursdays with early check-ins starting around 6:45 PM ET and the formal net starting at 7:15 PM ET on 147.180(+) PL 74.4 and 146.745(-) PL 100 [both in London]; 146.835(+) TSQ 100 [Pineville]; 224.960(-) TSQ 203.5 [Pine Mountain]; 442.850(+) PL 103.5 [Cumberland Gap] and 444.250(+) TSQ 107.2 [Black Mountain]. The net is also available on the following VOIP connections: EchoLink KE4GJG-R, KK4MJZ-R, WA4ROB-L, KK4WH-R, WA4ROB-R, or AF4Y-R; YSF node 75056, DMR TG 312128 and Hamshack Hotline Extension 94031,PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Sat 17 Shack closed; Open Rag chew Net 9:00 am 146.760 neg offset no PL tone; License Exam Session,10:00 am, ARRL VEC, American Legion Post 46, 45 Spears Lane,Danville, KY, Liaison Harold Miller/AF6MB ,541-602-6535 , Wilderness Road ARC, <http://www.wrarc.com>, Pre-registration Required, Pre-register here: <https://hamstudy.org/sessions/600ee698ffa7c81ace96b7b3/1>
- Sun 18 Amateur Television & Specialized Communications Net, 9:00 PM (146.760 Repeater);
- Mon 19
- Tue 20 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, KY-QRP Net suspended; Fayette County ARES Net 8:30 PM 146.940 with a PL tone of 88.5; License Exam Session 6:00 pm (Laurel VEC) Further information contact Brian Carter/KI4TLW, 502-545-0376 Church of Jesus Christ of Latter-Day Saints - Main Hall, 101 Bogie Lee Ave, Frankfort KY 40601
- Wed 21 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.715, PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thu 22 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control; District 9 ARES Net Thursdays with early check-ins starting around 6:45 PM ET and the formal net starting at 7:15 PM ET on 147.180(+) PL 74.4 and 146.745(-) PL 100 [both in London]; 146.835(+) TSQ 100 [Pineville]; 224.960(-) TSQ 203.5 [Pine Mountain]; 442.850(+) PL 103.5 [Cumberland Gap] and 444.250(+) TSQ 107.2 [Black Mountain]. The net is also available on the following VOIP connections: EchoLink KE4GJG-R, KK4MJZ-R, WA4ROB-L, KK4WH-R, WA4ROB-R, or AF4Y-R; YSF node 75056, DMR TG 312128 and Hamshack Hotline Extension 94031,PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Sat 24 Shack closed; Open Rag Chew Net 9 am 146.760 neg offset and no PL tone; License Exam Session 10:00 am (ARRL VEC) Sponsored by Wilderness Road Amateur Radio Club, Pre-registration Required , Further information, contact Harold Miller/AF6MB 541-602-6535, American Legion Post 46, Danville KY 40422
- Sun 25 Amateur Television & Specialized Communications Net, 9:00 PM (146.760 Repeater);
- Mon 26
- Tue 27 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, 443.325+ MHz, KY-QRP Net suspended; Fayette County ARES Net at 8:30 PM on the146.940 repeater and PL Tone of 88.5, License Exam Session 6:00 pm, K4TG Laurel VE Team, Church of Jesus Christ of Latter-Day Saint-main Hall, 101 Bogie Lee Ave, Frankfort KY 40601, Further information - contact Brian Carter/KI4TLW 502.545.037
- Wed 28 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.715, PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thur 29 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control; District 9 ARES Net Thursdays with early check-ins starting around 6:45 PM ET and the formal net starting at 7:15 PM ET on 147.180(+) PL 74.4 and 146.745(-) PL 100 [both in London]; 146.835(+) TSQ 100 [Pineville]; 224.960(-) TSQ 203.5 [Pine Mountain]; 442.850(+) PL 103.5 [Cumberland Gap] and 444.250(+) TSQ 107.2 [Black Mountain]. The net is also available on the following VOIP connections: EchoLink KE4GJG-R, KK4MJZ-R, WA4ROB-L, KK4WH-R, WA4ROB-R, or AF4Y-R; YSF node 75056, DMR TG 312128 and Hamshack Hotline Extension 94031,PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Sat 31 Shack closed; Open Rag Chew Net 9 am 146.760 neg offset and no PL tone;