



May 2021

K8EEN VHF Repeater:
146.790 MHz
-600KHz with PL = 71.9 Hz

K8EEN-R Echolink Node:
809800

K8EEN UHF Repeater:
444.600 MHz
+5 MHz with PL = 71.9 Hz

Contact Us

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Mount Vernon, OH
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Mount Vernon Amateur Radio Club

Meetings are held on the 2nd Monday of each month at 7:00 pm. The May meeting will be at Foundation Park inside Park National Bank Pavilion.

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MVARC Information

MVARC monthly meetings meet on the K8EEN 146.790 MHz repeater. **The next MVARC meeting is May 10, 2021.**

Visit us on Facebook:
Mount Vernon Amateur Radio Club

Visit our Webpage:
<https://mvarc.net>

MVARC

President

Michael Jacobs, KE8HGE

Vice President

Greg Short, W8DOH

Secretary/Treasurer

Terry Windsor, KI8N

Club Call Trustee

Don Russell, W8PEN

Equipment Trustee

Barry Butz, N8PPF

Directors

Emery Bennett, W8TW

Barry Butz, N8PPF

Frank Counts, KC8EVS

Don Russell, W8PEN

Greg Short, W8DOH

Scott Yonally, N8SY

Newsletter & Facebook

Editors

Frank Counts, KC8EVS

Terry Windsor, KI8N

Email for inquires and information:

MVARC.K8EEN@gmail.com

Join us every Sunday night on the Mt. Vernon 146.79 repeater for our weekly ARES Net. **Check-in starts at 9pm.**

Unable to access the repeater from where you are located? We are on IRLP (EchoLink) - Just look us up.

K8EEN-R Node 809800.

Ohio Traffic Nets

<http://www.ossbn.org/>

Ohio Single Side-Band Net; Ohio connection for what is going on in the Ohio Traffic System. The Net meets on 3.972.5 KHz at 10:30 a.m., 4:15 p.m. and 6:15 p.m. daily. Alternate Frequency for all sessions is 3.968 KHZ

<http://www.cotn.us/>

The Central Ohio Traffic Net is a part of the Ohio Section of the National Traffic System. They meet daily to handle traffic; all licensed amateur radio operators are welcome to check in and to learn how to handle traffic. The Net meets daily at 7:15 p.m. local time.

Area Radio Clubs

Delaware Amateur Radio Association: <http://k8es.org/>

Newark Amateur Radio Assoc: <https://www.n8ara.org/>

(Mansfield) InterCity Amateur Radio Club: <https://iarc.club/>

Marion Amateur Radio Club:

<http://www.marionhamradio.com/home.html>

The ARRL Ohio Section Newsletter: <https://arrl-ohio.org/news/index.html>

The ARRL Ohio Section calendar:

<https://arrl-ohio.org/g-calendar/default.html>

MVARC President: And now for a Word!

G. Michael Jacobs, KE8HGE



If April Shower brings May Flowers, what do April Snows bring? I suppose we are going to find out. Hopefully, whatever it is, it will not interfere with the Knox County Parks on the Air Event. I am looking forward to that getting off the ground this year. Another thing to look forward to this year is Field Day. Once again, Apple Valley has graciously allowed us to set up camp for that weekend. I hope that as many of us as possible can make it out there this year. And our final “big party event” of the year, Ohio State Parks on the Air, is coming up in September. These are all great events to support, and with COVID restrictions being loosened as the year progresses, I hope that as many of us as can get out are able to support these events.

I would also like to encourage everyone that can to join the club at our Friday morning breakfasts. With the weather cooperating more and more, Ariel Foundation Park is a great place to meet. The club will hopefully be experiencing this as well, since our May Meeting is set to take place there, weather permitting, May 10th at 7:00pm. I am looking forward to our first in-person meeting in a year.

The ARES Net is also looking for a fourth to take a regular weekly slot in our monthly Net Control rotation, as well as a fifth to take the occasional Fifth Sunday. If anyone is interested in either of these positions, chime in during our weekly Net (9:00pm every Sunday on the 146.790 MHz / K8EEN repeater) or let me know during one of our meetings.

73.



February 8, 2021 Meeting Minutes

G. Michael Jacobs, KE8HGE



Opening (G. Michael Jacobs, KE8HGE)

The repeater was placed into Net Mode by Michael, KE8HGE Net Control / MVARC President at 7:00 PM with 9 check ins including Net Control.

Reports / Minutes

The minutes of the March meeting were accepted as presented in the MVARC Newsletter without objection.

Treasurer (Frank Counts KC8EVS)

The Treasurers report for March 2021 was accepted as submitted. A copy of the report is available upon request.

Repeater and Mesh Report (Don Russell W8PEN)

No report – Don was not present for the meeting.

ARES (Bill Stroud KD8WHQ)

No report – Bill was not present for the meeting.

Old Business

Field Day (Don W8PEN)

No Updates.

Knox County Parks on the Air (Frank KC8EVS)

No additional information at this time; nothing has changed. Frank still needs operators to setup HF stations at the various county parks. He hopes to get a couple of people at each park and is still looking for volunteers. Anyone that is interested should contact Frank so he can sort out how many parks we can activate this year.

Black Fork Gravel Grinder

Mohican Wilderness Campground; May 1

Frank KC8EVS had an article in the April newsletter about the Gravel Grinder with the needs we have. Anyone interested contact Frank KC8EVS, Don W8PEN, or Terry KI8N. It is a great opportunity to get experience working an event, especially for those new to Ham Radio. It will most likely run from 10am to 4-5pm, with a post-event BBQ.

Frank KC8EVS, Don W8PEN, Terry KI8N, Greg W8DOH, G Michael KE8HGE, Larry AC8YE have already expressed an interest in supporting this effort.

KE8HGE recommended following the Sunday night net and the Friday breakfasts for updates or to pass on interest in participating.

Red Cross

Michael, KE8HGE spoke with Doug Peach. The Red Cross' new office does not have a meeting space available. They are exploring using the Community Room at the new Athletic Facility at the Mount Vernon High School for

their education and training sessions. He has offered to put in a word for us to possibly use the space. This may not be a long-term solution, but it may be viable for study and testing sessions.

New Business

Should the May meeting be held at the Foundation Park Shelter?

Barry, N8PPF thinks this is a good idea; there is enough room, and it is a nice place. Frank, KC8EVS agreed; the most recent Friday breakfast was held there, and it went well.

Ralph KC8REB asked if a reservation might be required to hold the space for us; although possibly that late at night, it might not be necessary.

Barry N8PPF said that on some Friday mornings other people would show up, but there is enough space that they were easily able to share the space.

License Testing

Frank KC8EVS said that if anyone is interested in testing to let him know; with the weather warming up, he would be able to set up testing sessions again at Foundation Park. This would be especially easy if they could be set for Friday mornings, but other times can also be accommodated.

Coming Events

NVIS Day is Saturday, April 24.

Knox County Parks event tentative in May.

June 26/27 is ARRL Field Day

Ohio State Parks on the Air is September 11

Social Updates (G. Michael Jacobs KE8HGE)

Dinner at R&M Southside Diner, Wednesday; table in the Immediate Seating area, ordering at 4:45pm.

Friday Morning Breakfast at Foundation Park in the large shelter north of the lakes (weather permitting) at 10:00am

Meeting Adjourned

No further business and without objection, Michael adjourned the meeting at 7:25 PM.



Radio Active

Don Russell, W8PEN



Believe it or not, as of May 1st, 2021 Field Day is only 57 days away!

This is usually the “big event” of the year for our club. While last year’s participation was down a bit due to Covid-19, the club had to cancel the annual Field Day Club picnic, I see no reason to hold back this year.

Yes, we may still be fighting the Covid-19 pandemic. But we know a lot more about the pandemic this year and how to take precautions for a safe and fun event. I anticipate the return of the picnic, the public information table, and more participation by club members.

Field Day Picnic

Speaking of the picnic. The last several years we have ordered our meat from Kroger. This included Fried or Baked chicken and Baby back ribs. This year I would like to try something different. Road Hog Willy’s, 504 B Harcourt Rd has an attractive menu. See: <https://www.roadhogwillysbbq.com/menus.html>

There would be several options here. We could have a party pack that servers 16 – 18 people. Includes 6 pounds of meat and two sides, Texas Toast, and BBQ sauce for \$156. Supplement with everyone bringing a covered dish.

Or, we could just order meat and the club would supply buns, BBQ sauce, etc. Supplement with everyone bringing a covered dish. We could order 5 pounds of chicken and 5 pounds of pork for \$125 or so. I always over order, so this might be too much meat. We would put the meat in crock pots and serve when we were ready. Also, if left in the crock pots for later, the night operators could have a snack.

Check out the menu and let me know what you think.

Another option would be for the club to make their own meat. I am against a cookout (hot dogs, brats, and hamburgers) because we would need someone willing to do the grilling and it would not be me. But if someone would volunteer (self and equipment), I could go with it.

An easy and cheaper option would be something like Sloppy Joe’s which could be put in a crock pot and left on into the evening so that the operators that stay the night or come later in the evening would have something to eat. Once again, a covered dish would be necessary.

These are all just suggestions for our picnic. Please let me know what you think. Alternative suggestions are fine with me. The expected size and participation will affect the picnic for sure. Club members unite and let me know what you want.....

Field Day Operation

While members consider the picnic options, let’s look at our Field Day stations. We are getting surprisingly good at this and I suspect that we will continue setting up the stations as in the past. I am making a few assumptions here because I have not talked to anyone as far as who is going to be station manager. Station managers can be changed if needed. For now, I am following the same setup we had during last year’s Field Day.

SSB Station One

Station manager will once again be Barry Butz, N8PPF. This station will be our main 20, 15, and 10 meter station, however it will be capable of 40 meters and maybe 80 meters. The computer logging software makes it easy for us to use any station on any band (or mode for that matter). Antenna will probably be an 80 or 40 meter Off-Center-Fed dipole, but this will be up to the station manager. Last year due to Covid-19, Barry operated from inside his camper. I am hoping for a more open station this year under the main tent so everyone who wants to can operate. If that does not happen, then we will have to set up a separate station in the tent to operate when Barry is not using his station. We could probably use Barry's antenna if we need to set this station up.

SSB Station Two

Station manager will be Greg Short, W8DOH. This station will operate on 75 and 40 meters. Antenna will be an Off-Center-Fed dipole. Using this antenna will allow operation on any band, giving the group flexibility.

Digital Station

Once again Terry Windsor, KI8N will be Station manager of the digital station. This will be an all band set up using whatever antenna Terry decides to use this year. The station will likely be operated inside Terry's camper. I am sure he would like some company though.

CW Station

As usual, I will be Station manager. I plan on having it set up outside my camper this year. I am planning on the standard Off-Center-Fed dipole for all band operation. I am also thinking about trying a 20-meter J-pole vertical just for kicks. I am hoping for help from a few of the local CW operators. I would like to run some SSB while others enjoy operating this station. The last two years the CW station has played around with topping a thousand QSO's. Maybe this will be the year.

Other Equipment / Thoughts

We will once again be using Field Day logging software created by Scott, N3FJP. This has been a solid performer for us as far back as I can remember. We never want to go back to paper logs.....

Everything Else

The club's two repeaters continue to work well. A few weeks ago, there was an Echolink update. The first update in years. Audio is much better with this new Echolink.

The local mesh network is working well. Now that Spring has sprung, we will start work on the Centerburg water tower. I have been waiting for the windy weather to subside.

That is it for this month. Hope to hear you on the repeater or see you at the May meeting.

Help Wanted

G. Michael Jacobs, KE8HGE



I am looking for a volunteer that is willing to take on the 2nd Sunday ARES Net. I am also looking for an ARES Net “understudy,” someone that would be willing to take the occasional 5th Sunday ARES Net. This would be 3 or 4 times a year; it would allow someone not so familiar with the Net to get a little bit of experience, and perhaps put them into a position to step up to a more regular Net if someone else decides to step down.

The Nets are every Sunday evening at 9pm on the 146.790 MHz repeater. If you are interested, I will take volunteers during the meeting. Or you can email me at g.m.jacobs@gmail.com. The script is straightforward, but a copy can be emailed to you if you want.

Black Fork Gravel Grinder

Frank Counts, KC8EVS



A quick note concerning the event that took place this weekend. Overall, it went well and we all had a great time. They had over 300 riders on the course and everything went smoothly. They really did not use us much as there were not any accidents to speak of and/or shortages at the aid stations. But this is good as it shows great organization on their part.

I am looking forward to next year as I think that they plan to have more riders. To my limited knowledge this was the first event that we have provided communications that did not make use of our repeater. The area we were in is very hilly, therefore radio communications difficult. We had some difficulty but overcame the problems as they occurred.

Thanks to all who participated: Barry, N8PPF, Arlin, KD8EVR, Ann, KD8LFH, Brandon, KD8LLP, Larry AC8YE, Tom, KD8HSA, and Don, W8PEN.

With that said and some discussion that took place after the race it think that as a club that we need to test ourselves and our equipment. We need to work on our ability to communicate within the county without the use of the repeater systems that Don W8PEN works so hard to keep running at a top-notch level. I think that Don's hard work permits us to become lazy. So, I am proposing that we have what I am calling a "Ham Rally" where we head out to different locations within the county and attempt to communicate with each other without the use of the repeater. With this we may need to program our radio to different frequencies and/or change the antenna that we are using. We can do this on a Saturday and maybe even get together afterward. Let me know what you think. We have all summer after Field Day to accomplish this. I think it would be fun.

Knox County Parks

Frank Counts, KC8EBS



Ok, the Black Fork Gravel Grinder is in the past, now for something different. I have been talking about this for some time, and it is time to get going. First, I want to stress that this is not a Parks On The Air (POTA) event, even though we are using that format in what we are doing. What we want to accomplish with this is to activate as many of the county parks here in Knox county. We want to promote our county park system. Our parks are not recognized or numbered in the POTA organization so please keep

this in mind.

So, what are we doing? Basically, on Saturday May 22nd I propose that we head out to one of the county parks and set up your station and start operating, like the POTA activations except we will be promoting whatever county park we are activating. The county web page has a description of each of the parks. I suggest that whatever park you choose to activate print this information out and be prepared to describe the park.

Time? At first, I thought that 12p to 4p would be good, but I think that I would move it back to 10a to 2p. Still four hours but not running too late giving plenty of time to mow grass if you are so inclined. Unlike a POTA activation I do not care how many contacts you make, if it is only one, so be it, great that is one better than none. You can use any frequency that you are license to operate. You can run longer if you want no problem, that will hopefully equal more contacts. Also, it would be fun to work each other!

Must keep a log of your contacts. I would like to send out QSL cards to those who would like one. I will be working on a design for the card, any help there would be much appreciated.

So go to the web page decide what park you would like to activate. Contact me and let me know. I will coordinate who is where so that we get all the parks, or as many as we have operators on the air. Does not mean that we cannot have more than one operator at a park, more the merrier but let us keep it to one station as the park will be open to the public also. This will make it a great way to show off our hobby.

Any other ideas or suggestions let me know. Also, if you are interested even in the slightest, contact me so that I can get out updates to you as we get closer to the date.

Amateur Radio Vinyl Decals

Nichole Adessa, N8OVE

My dad, Emery, W8TW had asked me back before Covid to come up with a design for MVARC: I make vinyl decals. I made up two of them but then the world broke and everything stopped. I have included links to the designs that I added to my online shop

The first link is a design for the Club only and Looks like the image below.

[Mount Vernon Amateur Radio Club Vinyl Decal | Etsy](#)

https://www.etsy.com/listing/1009895981/mount-vernon-amateur-radio-club-vinyl?ref=shop_home_active_1



This second one is a personalized decal that has the individual's Call Sign added. I used my Dad and I's Call Signs as examples so you can see what the decal will look like.

[Personalized Decal with Call Sign for Mount Vernon Amateur | Etsy](#)

https://www.etsy.com/listing/995928986/personalized-decal-with-call-sign-for?ref=shop_home_active_2





When you go to my Etsy page the decals are available in a variety of sizes and colors. Please let me know if you have any questions and have a great day!

Quick Updates



The following was received via the ARRL VE Newsletter April 2021
FCC Auto-Registration Feature for Exam Applicants to be Discontinued on May 20

Auto-registration in the FCC Commission Registration System (CORES) for amateur radio exam candidates using a Social Security number will be discontinued on **May 20, 2021**. **VECs/VE teams should stop accepting social security numbers at sessions immediately.**

Applicants must use an FCC Registration Number (FRN) for all license transactions with the FCC. Examinees must register in CORES (<https://apps.fcc.gov/core/userLogin.do>) and receive an FRN *before* exam day. Starting on May 20, electronic batch filed applications that do not include a candidate's FRN will be **rejected**. The Social Security/Licensee ID Field will be disabled.

An instructional video (<https://www.fcc.gov/rofrn>) provides step-by-step instructions on how to establish a CORES account, which is necessary for licensees to make administrative updates and download electronic license authorizations.

After June 29, all filers must provide an email address (<http://www.arrl.org/news/fcc-to-require-email-address-on-applications-starting-on-june-29-2021>) on all applications. When an email is provided, applicants will receive an official electronic copy of their licenses once granted (allow incoming email from authorizations@fcc.gov). If no email is provided when filing on or after June 29, applications will be rejected. ARRL VEC suggests that those without access to email to use the email address of a family member or friend.

Licensees need to log in to the Universal Licensing System (ULS) to download their authorizations (<https://www.fcc.gov/how-obtain-official-authorizations-uls>). The FCC no longer issues paper copies.

Morse Code Instruction

In the last few months, we had added resources to learn morse code.

<https://cwops.org/cw-academy/>

General Exam Sample Test Questions:

G7A08 Which of the following is an advantage of a switchmode power supply as compared to a linear supply?

- A. High-frequency operation allows the use of smaller components
- B. Fewer circuit components are required
- C. Faster switching time makes higher output voltage possible
- D. All these choices are correct

G0A02 Which of the following properties is important in estimating whether an RF signal exceeds the maximum permissible exposure (MPE)?

- A. Its duty cycle
- B. Its power density
- C. Its frequency
- D. All these choices are correct

Extra Class Exam Sample Test Questions:

E9C05 Which of the following is a type of OCFD antenna?

- A. A folded dipole center-fed with 300-ohm transmission line
- B. A remotely tunable dipole antenna using orthogonally controlled frequency diversity
- C. A multiband dipole antenna using one-way circular polarization for frequency diversity
- D. A dipole fed approximately 1/3 the way from one end with a 4:1 balun to provide multiband operation

E3C15 What might be indicated by a sudden rise in radio background noise across a large portion of the HF spectrum?

- A. A temperature inversion has occurred
- B. Long-path propagation is likely
- C. A solar flare has occurred
- D. Increased trans equatorial propagation is likely

These test questions are from the current test pools for their respective license classes. How did you do? The answers are on Page 19. Practice tests for all license classes can be found here: <https://www.qrz.com/hamtest/>

Member Information

At the end of March, the Secretary/Treasurer has purged the MVARC Membership list and removed the names of personnel that have not paid their dues for this year. Those that have not renewed their membership received an email alerting them personally of this action. FYI: Last year there were 60 members and this year there are 46.

Editors Notes



To All: The MVARC Newsletter is delivered to club members only by email link to the MVARC webpage.

If you know a member who can not access or is not on this email chain please share this information with them and have them contact the editors.

Frank and I would really like to hear from you as to layout, articles, ideas for new content and anything else you would like to read or write about. Please have all written input to us by the fourth Friday of the month for inclusion into the next monthly newsletter.

Please note that Terry has changed the contact email for the MVARC newsletter to MVARC.K8EEN@GMAIL.COM. If anyone sent an idea to the previous email address it was never forwarded, I apologize for not having used your input. Please try again using the gmail address.

How about sending us your member profile? We would like to highlight a current MVARC member each month. Mother's Day is May 9. Remember and honor your mother on her day!

Updated RF Exposure Rules



ARLB011 Updated Radio Frequency Exposure Rules Become Effective May 3

The FCC has announced that rule changes detailed in a lengthy 2019 Report and Order governing RF exposure standards go into effect on May 3, 2021. The new rules do not change existing RF exposure (RFE) limits but do require that stations in all services, **including amateur radio, be evaluated against existing limits**, unless they are exempted. For stations already in place, that evaluation must be completed by May 3, 2023. After May 3 of this year, any new station, or any existing station modified in a way that's likely to change its RFE profile - such as different antenna or placement or greater power - will need to conduct an evaluation by the date of activation or change.

The Report and Order can be found online in PDF format at, <https://docs.fcc.gov/public/attachments/FCC-19-126A1.pdf>.

"In the RF Report and Order, the Commission anticipated that few parties would have to conduct reevaluations under the new rules and that such evaluations will be relatively straightforward," the FCC said in an April 2 Public Notice. "It nevertheless adopted a 2-year period for parties to verify and ensure compliance under the new rules."

The Amateur Service is no longer categorically excluded from certain aspects of the rules, as amended, and licensees can no longer avoid performing an exposure assessment simply because they are transmitting below a given power level.

"For most amateurs, the major difference is the removal of the categorical exclusion for amateur radio, which means that ham station owners must determine if they either qualify for an exemption or must perform a routine environmental evaluation," said Greg Lapin, N9GL, chair of the ARRL RF Safety Committee and a member of the FCC Technological Advisory Council (TAC).

"Ham stations previously excluded from performing environmental evaluations will have until May 3, 2023, to perform these. After May 3, 2021, any new stations or those modified in a way that affects RF exposure must comply before being put into service," Lapin said.

The December 2019 RF Report and Order changes the methods that many radio services use to determine and achieve compliance with FCC limits on human exposure to RF electromagnetic fields. The FCC also modified the process for determining whether a particular device or deployment is exempt from a more thorough analysis by replacing a service-specific list of transmitters, facilities, and operations for which evaluation is required with new streamlined formula-based criteria. The R&O also addressed how to perform evaluations where the exemption does not apply, and how to mitigate exposure.

Amateur radio licensees will have to determine whether any existing facilities previously excluded under the old rules now qualify for an exemption under the new rules. Most will, but some may not.

"For amateurs, the major difference is the removal of the categorical exclusion," Lapin said, "which means that every ham will be required to perform some sort of calculation, either to determine if they qualify for an exemption or must perform a full-fledged exposure assessment. For hams who previously performed exposure assessments on their stations, there is nothing more to do."

The ARRL Laboratory staff is available to help amateurs to make these determinations and, if needed, perform the necessary calculations to ensure their stations comply. ARRL Laboratory Manager Ed Hare, W1RFI, who helped prepare ARRL's RF Exposure and You book, explained it this way. "The FCC did not change any of the underlying rules applicable to amateur station evaluations," he said. "The sections of the book on how to perform routine station evaluations are still valid and usable, especially the many charts of common antennas at different heights." Hare said ARRL Lab staff also would be available to help amateurs understand the rules and evaluate their stations."

RF Exposure and You is available in PDF format for free download from ARRL at, <http://www.arrl.org/files/file/Technology/RFsafetyCommittee/28RFSafety.pdf>.

ARRL also has an RF Safety page on its website at, <http://www.arrl.org/rf-exposure>.

The ARRL RF Safety Committee is working with the FCC to update the FCC's aids for following human exposure rules - OET Bulletin 65 and OET Bulletin 65 Supplement B for Radio Amateurs. In addition, ARRL is developing tools that all hams can use to perform exposure assessments.

- ✓ Note from Terry, KI8N; I used this RF exposure calculator to calculate my station: http://vernon.mauery.com/radio/rfe/rfe_calc.html?fbclid=IwAR1LLdxmU-mXI3miW1XVDwxs4ghTyotKQvIgiyc7H81L9mplvafxEVvV2IM

Miscellaneous Rambling

Terry Windsor, KI8N



I do not want to say it, but I did not participate in NVIS day this year as I had previously stated I was going to. Between the weather, home activities, and plain old forgetfulness I missed the entire activity. As any rebuilding team says, there is always next year! Another month of little radio activity. Seems most free time is landscaping now. Had to get the flower beds (we have too many) ready for spring. Lawn needed work, fertilizer, aerating, and mowing. And of course, there is always the 1969 Mustang needing something done to it. This year it is fixing a couple of rust spots on the passenger door and repainting that door.

I have a list of projects I need to work on this summer, but I hope to get more radio active and play in a couple of contests and POTA activities especially once the weather gets a little better.

As I sit here writing this it occurs that I still have not redone the Portable Digital Network set up on the FTM-300 that would allow connecting through the internet to worldwide stations on VHF. Another project I seem to have avoided or missed.

Until next month be safe, observe Mother's Day, and become radio active!!

Time Conversion Chart

UTC	EDT/AST	CDT/EST	MDT/CST	PDT/MST	PST
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500
1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400*	2000	1900	1800	1700	1600

Coordinated Universal Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15 degrees in longitude. The five time zones in the US proper and Canada roughly follow these lines.

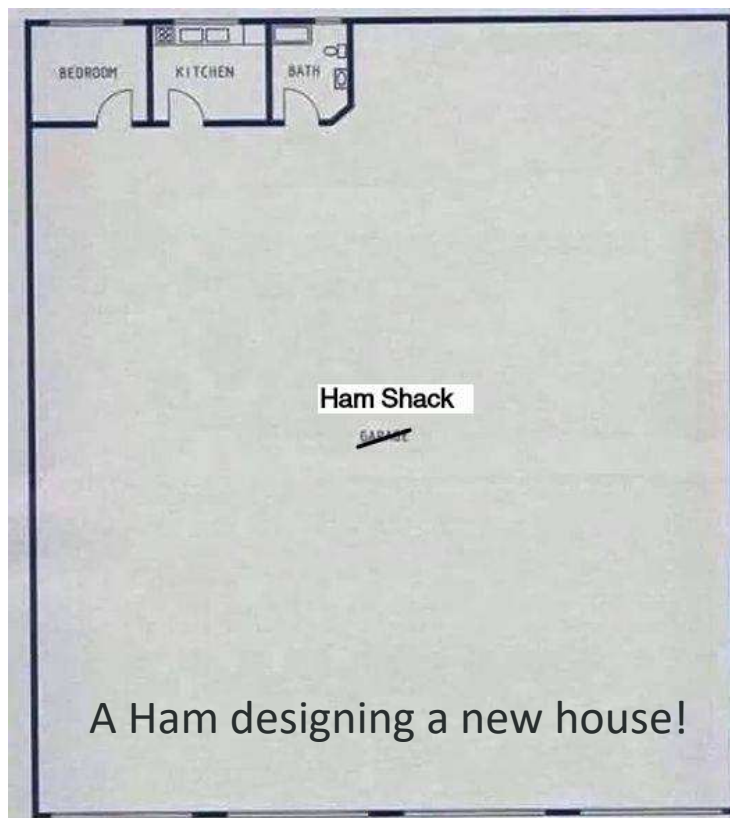
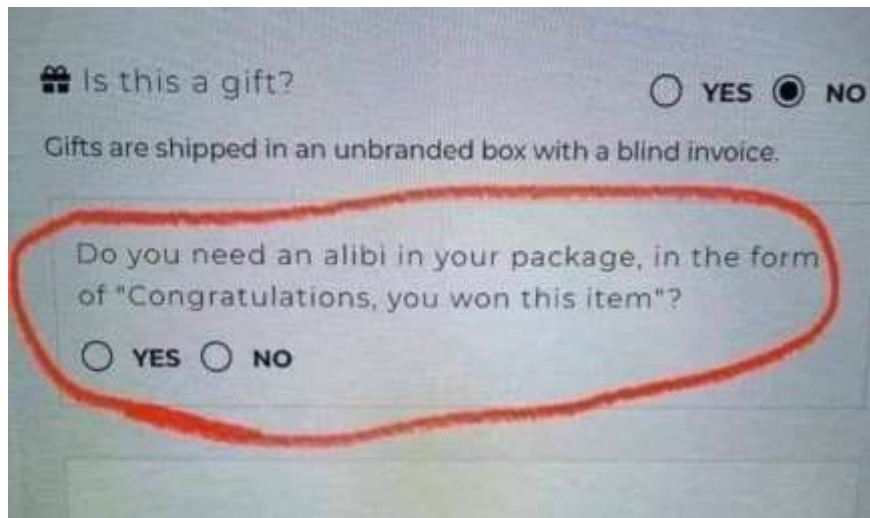
* 0000 and 2400 are interchangeable. (2400 is associated with the date of the day ending, 0000 with the day just starting.)

FSD-220 (1/04)

MAY 2021

SUN	MON	TUE	WED	THU	FRI	SAT
						01
02	03	04	05	06	07	08
9:00 PM ARES Sunday Night Net on 146.79 MHz		4:45 PM Dinner at Southside Diner			10:00 AM Breakfast at Foundation Park – Park National Bank Pavilion	
09	10	11	12	13	14	15
9:00 PM ARES Sunday Night Net on 146.79 MHz Mother's Day	7 PM MVARC Monthly Meeting @ Foundation Park	4:45 PM Dinner at Southside Diner			10:00 AM Breakfast at Foundation Park – Park National Bank Pavilion	
16	17	18	19	20	21	22
9:00 PM ARES Sunday Night Net on 146.79 MHz		4:45 PM Dinner at Southside Diner			10:00 AM Breakfast at Foundation Park – Park National Bank Pavilion	
23	24	25	26	27	28	29
9:00 PM ARES Sunday Night Net on 146.79 MHz		4:45 PM Dinner at Southside Diner			10:00 AM Breakfast at Foundation Park – Park National Bank Pavilion	
30	31					
9:00 PM ARES Sunday Night Net on 146.79 MHz	Memorial Day					

Final Takeaway



I finally got 8 hours of sleep. It took me three days, but whatever.

My superpower is holding onto junk for years and throwing it away a week before I need it!

The trouble with reading quotes on the internet is that you never know if they are genuine. ~ George Washington.

The older I get, the earlier it gets late.

Answers to sample test questions on page 11.

G7A08: A – High-frequency operation allows the use of smaller components

G0A02: D – All these choices are correct

E9C05: D – A dipole fed approximately 1/3 the way from one end with a 4:1 balun to provide multiband operation

E3C15: C – A solar flare has occurred

Market Place

A column dedicated to amateur radio items you have, do not need, and would like to sell, trade or give-away.

- Yaesu FT-70DR; dual band 5-watt HT. Includes:
 - Antenna
 - 7.4 V 1,800 mAh Lithium-Ion Battery Pack (SBR-24LI)
 - Battery Charger (SAD-18B)
 - Belt Clip
 - USB Cable
 - Warranty Card
 - Operating Manual
 - RT Systems ADMS-70D software and USB-57B programming cable

\$190.00 - Contact Terry Windsor ki8n.tw@gmail.com