This Month's News: FIELD DAY 2021 (June 26-27) was a great event!

Our Field Day committee provided a great experience for all who attended and participated in the K6MEP Field Day activity at Oxnard College. Mark Vodon KI6PTE provided his RV (with an awning, BBQ and beds), Clem KM6OKZ, Pedro KE6MIL, Denney N6HV, Tim KN6JGB and Robert KM6RSS were the 40m, 20m, 15m, 2m and 1.25m band captains, respectively. Mark Ortega KI6YLH did a great job with meal planning and preparation. Robert Shank, Clem Alberts, Pedro Morillas and Bob Brodie served as the Safety Officers. James Norton KB6JWN operated our GOTA station and successfully send a radiogram to Rick Tate KQ6NO, our Santa Barbara Section Emergency Coordinator. Many thanks to N6R (VCARS and SSARC) for relaying the message!

The June 11th meeting was held at The Dudley House at 19:00 and was conducted by our club President Denney N6HV. Denney presented "How to Program Hand-held Radios" (with CHIRP). We held our board election, which had been postponed from last November, due to COVID restrictions. Burt KA6BJA, our election administrator, conducted the election, and Pedro Morillas KE6MIL, our temporary secretary, certified the process and results. The following members will be installed at our July 9th meeting: At-Large Board Members (3); Richard Abbey WB6AEW (incumbent), David Schmidt AI6VX, and Mark Swaney KD6ASL, Treasurer John Gartman W6JPG (incumbent), Secretary Pedro Morillas KE6MIL, Vice President Clem Alberts KM6OKZ (incumbent), and President-elect Robert Shank KM6RSS. We also discussed our Field Day (June 25, 26 and 27) schedule, assignments and status. 27 members and guests attended our meeting with two Hams joining our club.

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Message from the President

The Prez Sez,

I would like to thank the club for the best field day ever. Thanks to Clem KM6OKZ for heading up the field day committee and for setting the "Return to the Roots of Field Day" theme for this year. The "bring your own rig and antenna and prove that you are ready for any emergency" was a good exercise. Also thanks to everyone that worked so hard to make this a great field day. Thanks to Mark KI6YLH for cooking for the Field Day group. Thanks to Mark KI6PTE for the use of the mobile home. Thanks to everyone that operated, helped, or stopped by. I hoped you enjoyed it as much as I did.

If you participated in Field Day, I urge you to make a lesson learned list of the things that went well and the things that could be improved for next year. I had one report that when a club member tried to start his generator, before Field Day, it would not start. He could not get it repaired in time. We did have two generators at Field Day, with a third as backup, and proved that we could run with just one 2000 watt generator. It was great to see several operators running off solar cells. I have to remember to bring a tarp to add shade to my canopy. As the sun went down, I had to move the "operating" table.

The June 5th picnic was a great success. I would like the club to plan for another one in August or September. Get your inputs in to the club board for what you would like to have at the next get-together. Plan on bringing your radio setup or go-box and show it off.

Be sure to check out the equipment that the club has for sale at the end of the newsletter. Also, if you're looking for something in the way of Ham equipment you could put a want ad in this newsletter.

Something new, something old.

The new stuff;

A couple of weeks ago Dr. Tamitha Skov (www.spaceweatherwoman.com or on YouTube) had a report of the first solar radiation storm of the new solar cycle.

Club Officers	And Keyer	Contributors
President	Denney Pistole	N6HV
Vice-President	Clem Alberts	KM6OKZ
Secretary*	Pedro Morillas	KE6MIL
Treasurer	John Gartman	W6JPG
Board Member*	Dave Schmidt	AI6VX
Board Member	Robert Shank	KM6RSS
Board Member	Richard Abbey	WB6AEW
Photographer	Denney Pistole	N6HV
Facilities	Richard Abbey	WB6AEW
Keyer Editor	Robert Shank	KM6RSS
Webmaster	Robert Shank	KM6RSS
Domain	Phil Cohen	WA6BUZ
Membership	Open	
License Trustee	Dave Schmidt	AI6VX
QSL Manager	Ben Holmes	K6QV
Safety Officer	Open	
Trivia	Dana Wentling	KG6WXE
Columnist	Reese West	KQ6TT
Columnist	Steve Noll	WA6EJO
Local Area Net	Wayne Woodhams	N6WIX
ACS/ARES	Rob Hanson	W6RH
SB Section	John Kitchens	NS6X
PVARC/MESH	Paul/Orv	WD6EBY/W6BI

The KEYER is published monthly by K6MEP, the Ventura County Amateur Radio Club, Inc. as a means of providing club members the minutes from K6MEP's monthly general membership meetings, the monthly board of directors' meetings, a calendar of events and articles of interest about amateur radio. Layout and logos are the property of The Ventura County Amateur Radio Club, K6MEP.

Submit material by email to KM6RSS@gmail.com. Our club mailing address is:

K6MEP

PO Box 2103

Oxnard, CA 93034-2103

K6MEP holds general membership meetings at 7:00 PM on the 2nd Friday of each month (except December). Dues are $20 per year.

Message from the President (Continued)

By the way, I was surprised by the number of non-club hams that stopped by the Field Day site and ended up mentioning that they watched her YouTube videos. Now I know a little bit about solar flares and Coronal Mass Ejections (CME), but I had not heard of radiation storms except in science fiction.

After a long Google search I found that solar radiation storms are a mass of protons coming from the sun. It's a bit confusing. A hydrogen atom is a photon with an electron. Ionize a hydrogen atom and you have a proton. A CME is a bunch of ionized hydrogen atoms, so what's the difference between the protons in a CME and the protons in a radiation storm? In a radiation storm the protons are moving at a good percentage of the speed of light. In a CME they are moving much slower. A proton in a CME can take four to five days to reach the earth. A proton in a radiation storm reaches the earth in eight to nine minutes. Protons in a radiation storm can penetrate deep into matter, not good for satellites or humans. I am still trying to figure how a radiation storm impacts radio propagation.

The old stuff;

Some of us use to take old television sets apart to get the tubes out of them, some of us took parts from the old sets to try and build radios. A few of us took televisions apart to figure out how they worked. Back in the day you could follow a wire from the antenna jack to the capacitor, resistor or tube as the signal was converted to audio or video. Today the signal goes into a flat, black, IC package that has hundreds of leads sticking out of it and inside something strange happens that I'm sure the person who designed the chip doesn't fully understand how it works either.

I just scraped out another rusty piece of junk. It was a high voltage power supply that had seen better days. When I say high voltage I mean 500 volts. To a computer guy, high voltage is 3 volts.

Inside this old power supply was tubes; among the tubes were a pair of 807s. They're really big versions of the 6L6. The 807 was an audio tube that Hams used up to 10 meters. Of course you didn't get near as much output at 10 meters as you got at 80 meters, but an 807 cost a lot less than an 811. The 811 were made to go into the RF range, but you could find used 807s or sometimes get a discarded audio amp with a pair of 807s in it.

You could build an amplifier with an 807 with basic hand tools and a few parts. The circuit is simple; the plate of the 807 was coupled to the output or tank circuit with a high voltage mica capacitor. The tank circuit was a pi network, with a bread slicer capacitor (a high voltage cap with a lot of spacing between the blades of the cap), a coil that you could wind by hand, and a loading cap that didn't need to withstand much high a voltage and you could get one out of an old AM table radio). Your home built amp would not look as good as the pictures in the ARRL handbook, but what were you trying to do, look at it or make contacts?

A couple of other things you needed were a plate inductor to keep the parasitic down. That could be a resistor with some wire wrapped around it. A resistor for the beam grid, something around 18 ohms plus or minus a bunch of ohms (tubes are very forgiving). A coupling cap, that could be a disk ceramic cap out of an old TV (again the value was not too important). You needed no PC boards, no strip lines on a special substrate. The tube socket came out of an old TV. That was all you needed for a 75 watt amplifier, except a power supply. That was the killer. The power supply was anything between 500 and 800 volts DC at close to half an amp. It took three or four TV transformers ganged up in series and parallel to get that much voltage and current. That is serious, life threatening voltage for an unsupervised high school student. Luckily I found a use transmitter before I could find an 807 and some of the other parts (that high voltage mica cap was expensive

Message from the President (Continued)

and you had to order it out of Chicago and the shipping cost was ridiculous). But it looked so easy to make, not like the surface mounted amps we have today.

Those were the good old days, these are the great days.

73,

Denney N6HV

FIELD DAY 2021

Our club held Field Day 2021 at the Duck Pond at Oxnard College (parking lot "B"). Ten members and friends helped us to set up the equipment on Friday, June 25th. Sixteen members signed in as operators on Saturday and twenty-eight visitors signed the log, including the Oxnard Fire Department's Chief of Battalion 61, Steve Reyes, and three of Engine 166 crew members. On Sunday there were fifteen members (see photo) who logged in as operators/visitors and who helped remove the equipment and clean up our site. Jeremy Climer KN6JMD did an excellent job in providing connectivity between our logging software, N3FJP and the band captain's laptops, as well as entering and consolidating the paper logs. He also attended the Terry Graves Memorial Zoon meeting and presented K6MEP's data for entry into the "memorial contest". Mark Vodon KI6PTE provided his RV so that Clem could guard the equipment on Friday night and Pedro stood guard on Saturday night. Tim Tenopir KN6JGB also camped out in his pup tent Saturday night. Mark Ortega KI6YLH provided sandwiches, snacks, dinner and breakfast throughout the Friday to Sunday outing. Many thanks to Oxnard College for allowing us to hold our Field Day 2021 at such a great location.

Field Day Photos Posted by Ben & Phil

By Ben Holmes K6QV and Phil Cohen WA6BUZ

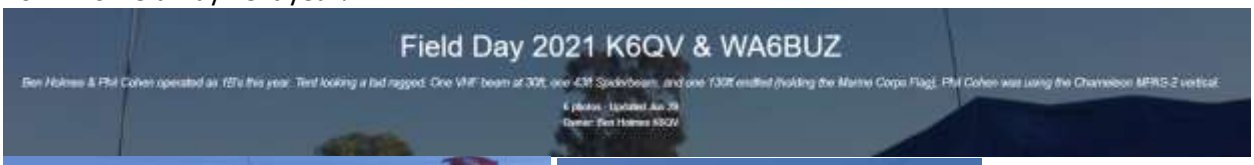
Here are the photos showing me and Phil Cohen operating as 1B this year. We both ended up with over 50 contacts, mostly FT8. As we both operated battery and QRP, we garnered a good number of points!

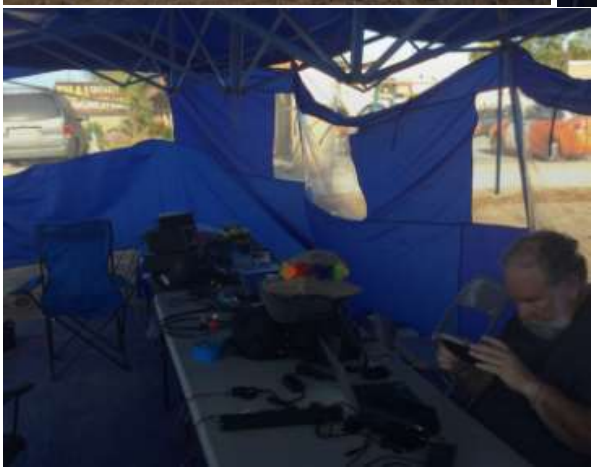
We didn't seem to have any problems being heard with just 5 watts - so it was a fun and active Field Day!

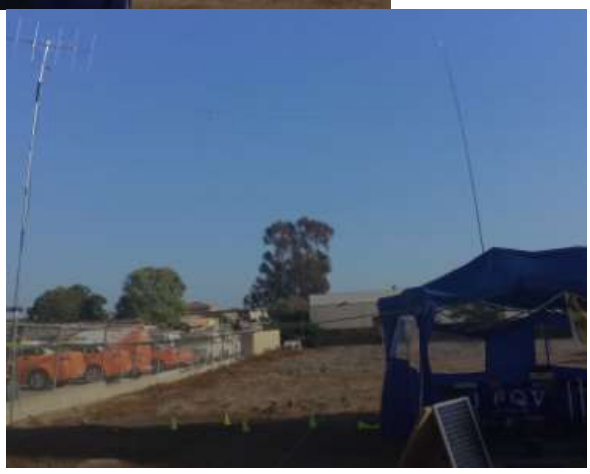
The tent managed to hold up, but due to too many broken sections - went straight into the trash at the end of Field Day... new tents for next year, we're looking at the Eurmax 10x10 Popups for next year.

Lessons learned: have all the drivers loaded for a new laptop (Phil) - Have a spare soundcard interface (Me) - I managed to burn out a soundcard interface when I plugged my laptop into the same battery as the transceiver - Ground loop problems? Lost an hour running back home for another soundcard interface...

Both Phil and I are making our lists of needed items for next year's Field Day, and hope to operate at K6MEP's Field Day next year!







K6MEP June 11, 2021 Board Meeting Minutes

EXECUTIVE BOARD MEETING MINUTES for June 11, 2021

MEETING LOCATION: Dudley House, Ventura, CA

OFFICER ATTENDEES

OFFICE	LAST	FIRST	CALL SIGN	PRESENT
PRESIDENT	PISTOLE	DENNEY	N6HV	X
VP	ALBERTS	CLEMENT	KM6OKZ	X
TREASURER	GARTMAN	JOHN	W6JPG	X
SECRETARY (temp)	MORILLAS	PEDRO	KE6MIL	X
BOARD	ABBEY	RICHARD	WB6AEW	
BOARD	SCHMIDT	DAVE	AI6VX	X
BOARD	SHANK	ROBERT	KM6RSS	X

CALL TO ORDER 19:01

Denney Pistole called the meeting to order and verified that there was a quorum of board members: Denney, Clement, John, Dave and Robert were present. Richard Abbey wasn't available.

MEETING MINUTES

- Minutes of the last meetings as published in the Keyer were approved unanimously
- There was no Secretary's report
- Treasurer's report presented by John W6JPG. Treasury in good shape, no outstanding debts. Rent of Post Office Box will be due soon, insurance is due in October
- Three new members recognized
- New Membership fees, proposed by Robert. Discussion tabled until next meeting
- Approved expenditure, not to exceed $300.00 for the purchase of 10 hard hats plus vinyl decals.
- Archived Records discussion. Robert volunteered to catalog the existing records. Stewart Stone will send what his has in his possession to Denney and Robert. Phil Cohen will send his thumb drive to Robert.
- Field Day discussion. Approved expenditure for food not to exceed $300.00. Pedro to buy 10 safety helmets to be used during Field Day, and 100 K6MEP name cards.

Old Business:

- No old business discussed.

K6MEP June 11, 2021 Board Meeting Minutes (Continued)

BOARD WAS ADJOURNED AT 19:31

GENERAL MEMBERSHIP MEETING MINUTES for June 11, 2021

MEETING LOCATION: Dudley House, Ventura, CA

OFFICER ATTENDEES:

OFFICE	LAST	FIRST	CALL SIGN	PRESENT
PRESIDENT	PISTOLE	DENNEY	N6HV	X
VP	ALBERTS	CLEMENT	KM6OKZ	X
TREASURER	GARTMAN	JOHN	W6JPG	X
SECRETARY (temp)	MORILLAS	PEDRO	KE6MIL	X
BOARD	ABBEY	RICHARD	WB6AEW	
BOARD	SCHMIDT	DAVE	AI6VX	X
BOARD	SHANK	ROBERT	KM6RSS	X

CALL TO ORDER 19:16

Denney opened the meeting
Open meeting with Pledge of Allegiance
Introductions of all members and guests.

Roll Call:

There were 27 people in attendance, 2 guests and 25 members.
Keith Elliott, W6KME (joined as a new member)
David Johnson KJ6TRZ (re-joined as a previous member)

ANNOUNCEMENTS

Old Business:

- 2021 Field Day informal discussion. Robert will publish a survey in Groups.IO to determine detailed needs for a successful Field Day.
- Denney, Mark Thompson and Robert Shank will be present at KVTA broadcasting studios on Wednesday 23, 2001 at 7:30 AM to inform the station's listeners about the Field Day.

New Business:

Denney presented "How to Program Handheld Radios (with CHIRP)"

GENERAL MEMBERSHIP MEETING MINUTES for June 11, 2021

Elections

- Nomination of new Club Officers was announced by Chairman of Elections, Burt Auerbach KA6BJA.
- Nominations from the floor were requested. Ben Holmes nominated Phil Cohen for Secretary. He was added to the election ballot.
- The ballots were submitted; the results were counted and tallied by The Chairman of Elections, Burt Auerbach.
- The Secretary confirmed the count and announced the results as follows:

o **Board Members Elect**

- Richard Abbey, WB6AEW
- David Schmidt, AI6VX
- Mark Swaney, KD6ASL

- **Executive Positions Elect**
  - President Robert Shank, KM6RSS
  - Vice President Clement Alberts , KM6OKZ
  - Secretary Pedro Morillas, KE6MIL
  - Treasurer John Gartman, W6JPG
- The elected officers will be installed in their respective office at the July 9th meeting

The next club meeting will be held on July 9th and the topic will be Field Day Successes; Clem Alberts, our current and future VP, will lead the discussion.

The meeting adjourned at 21:55.

Everyone was invited to get together at Toppers for pizza and conversation

K6MEP Monday Night Net Update (Robert Shank)

Our 2021 Contest started on January 11 and will end on December 6th. Make sure to set your calendar alarms to remind you to check-in and join the Zoom get-together that follows.

Our Net is held each Monday night at 20:00 hrs. local time (we won't hold the net on Christmas Eve/Day or New Year's Eve/Day if they fall on a Monday). We welcome all Ham operators so please check-in and join the roundtable discussion. The net is on Two Meters on the WD6EBY Repeater of Oxnard on 145.200 MHz with a negative offset and a PL of 127.3. We also have a Zoom meeting following the net at 20:30; see K6MEP.groups.io, YouTube and MeWe for details. Many thanks to PVARC and Paul WD6EBY for hosting our meeting on the repeater.

Monday Night Net Contest Totals to Date		
Date	Total	Visitors
1/11/2021	22	4
1/18/2021	22	3
1/25/2021	22	6
2/1/2021	18	3
2/8/2021	17	2
2/15/2021	18	3
2/22/2021	20	4
3/1/2021	17	3
3/8/2021	26	8
3/15/2021	20	5
3/22/2021	22	7
3/29/2021	17	3
4/5/2021	20	7
4/12/2021	19	4
4/19/2021	18	3
4/26/2021	17	4
5/3/2021	20	4
5/10/2021	13	2
5/17/2021	15	1
5/24/2021	19	5
5/31/2021	16	2
6/7/2021	20	3
6/14/2021	14	2
6/21/2021	23	5
6/28/2021	14	1
Total	469	94

As of June 28th, we've held 25 nets and had a total of 469 check-ins including 94 visitor check-ins and an average of 18.76 per night. Four members including, of course, our net control operator, Denney N6HV, have checked in **every Monday night for twenty-five Monday nights in a row**.

Field Day Committee Meeting 6-12-21 (Robert's Notes)

Our meeting started at 20:00 hours and completed at 21:40. The following items were discussed:

1. Oxnard College has been reserved – Clem. There will be a janitorial fee of $95 per day.
2. Keys for restrooms – Outstanding issue.
3. Generators – How many and who will bring?
4. Masts and guy lines and antenna feed lines (coaxial cables and ladder lines) – Who are bringing them?
5. Stewart Stone may not attend as he is moving to Arizona very soon.
6. Chairs – can we borrow them from the Dudley House?
7. Mark Vodon has a Recreational Vehicle; will he lend it to us? Who is bringing tents?
8. Will Ben and Phil attend? Denney and/or Burt will contact.
9. Multi-modes on a given band – what are the consequences?
10. Run a test before FD to determine interference between digital (FT8 or 4) and other modes
11. Pedro tested with two transceivers on both SSB 20 m and FT8; lots of interference
12. An Icom 7300 has three filters; can the bandwidth be narrowed to avoid interference?
13. Band Captain's role vs. Air Traffic Controller – What are the differences?
14. Steve Noll and Rod Austin are not normally at Field Day; how can we include them both in the event?
15. Let's set up as many different stations as possible to ensure contacts if the bands are bad
16. Resolve digital and voice conflicts before Field Day
17. Do different bands
18. Pedro is offering to test filters at his house – contact him for an appointment
19. CVARC made frequency filters with narrow notch filters – someone needs to contact them and ask – Burt?
20. Pedro is testing narrow notch filters
21. We need an interference get-together after mid-May
22. Send Mark Thompson an email invitation
23. Mark Vodon will set up his BBQ, refrigerator, freezer, portable tables, pop-up and canopy with his RV

Thoughts From the West Reese West KQ6TT

GIMMICKS AND SUCH

There are little math short cuts and methods that can be used when adjusting circuits. Let's start with a breadboard circuits that contains a resistor and you need to vary its value. If you need to increase the value, you are stuck. You have to unsolder it and replace it with a larger one or add a series resistor to it. If you want to reduce the value, you can parallel another resistor. But what value resistor do you need to use? You can use the standard parallel resistor formula:

(Rparallel = (R1*R2)/(R1+R2) to calculate it by trying several different value until you get what you want. You can solve the equation for the new resistor value, say R2, which is a pain to do. Or you can visualize that the new resistor has the same voltage drop as the original. If you paralleled the original one with another, you would double the current and cut the total value in half. If you added a resistor of ten times the original value, you would get a current increase of one tenth the original current and lowered the combined value by about ten percent. Adding a resistor of one half the original would give a fifty percent increase, and so forth. No real calculations, just a mental approximation.

If you had an inductor that you wanted to make larger?—could be a big problem. Well, we know that if we parallel it with a capacitor, we can get a really high impedance when at resonance. Any value capacitance that has an impedance between zero and the impedance of the coil will make the coil look larger. The performance cost is that it will be a little more narrow band. To make the coil have a lower impedance, you can put a capacitor in series with it, but the capacitor must have a low impedance i.e. a large value. If it is a helical coil, you can slide some copper tubing inside it to vary the impedance. To increase it a little, slide in some iron. There used to be small hand tools available to do this, having different metal at each end.

To vary a capacitor, series a small coil to decrease the impedance and get the effect of a larger capacitor. You can also get this by paralleling a capacitor or a 'gimmick'.

The gimmick is a handy thing. Take two pieces of insulated wire and twist them together. Solder one end of these wires to a circuit. The two wires can be looked at in two ways. The first is just as a small value capacitor. You can change length to quickly vary value. The second way to look at it is as a transmission line. Most times when I have used this idea, the impedance was about seventy ohms.

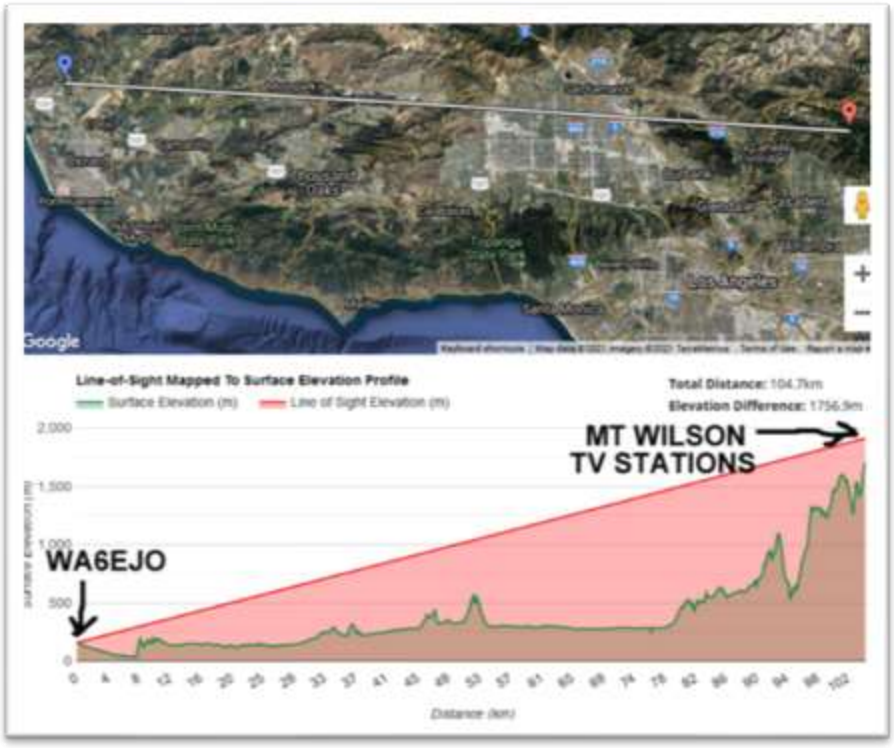
I have used gimmicks as transmission lines from ten megahertz to four gigahertz. In a small sized circuit, I used magnet wire. Gimmicks are a standard method for quick small and variable capacitors. They have been used for probably a hundred years.

Laurice (Reese) West KQ6TT June 17, 2021

Ham Tips de Steve, WA6EJO

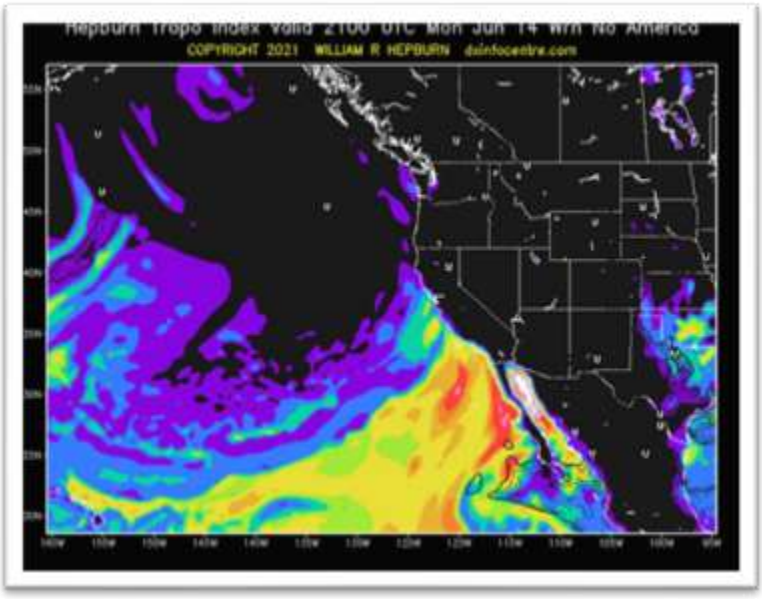
"Weak Signal" Nets: Almost every day of the week there is a net in Southern California for VHF and above Single Sideband operators.
Monday - 222.1 MHz SSB 7PM. Yes, there are people on 220 sideband! Run by Ralph K6TSK from Anaheim.
Tuesday - 1296.09 MHz SSB 7:30PM. Also K6TSK.
Wednesday - 144.24 MHz SSB 7:30PM. One of the "Bozo" nets. Run by Pat W6PMD.
Thursday - 432.12 MHz SSB 7PM. K6TSK.
Friday - 1296.1 MHz SSB 8PM, K6TSK net control.
Sunday - 144.24 MHz SSB 7PM.
Sunday - 3.920 MHz 5PM. Yeah, a 75M phone net for VHF/UHF weak signal operators.
Times vary with the seasons. I can check into all of these nets from Ventura.

RF Path Tool: https://www.solwise.co.uk/wireless-elevationtool.html.
Incredible tool shows you the RF path between any two points with the elevation profile along the way. You can start with your address or just pick a point on the map then set the other end of the path. You can set antenna heights too.
Note the web site starts centered on England, don't be concerned as you can move anywhere on the globe.
An example...



Ham Tips de Steve, WA6EJO (Continued)

Tropo Duct Forecaster: https://dxinfocentre.com/tropo_wam.html. Displays color graphic that predicts RF ducts off the west coast.



June ARRL VHF Contest: WA6EJO made an AM voice light wave contact with K6LMN/R using my 855 nm infrared LED transceivers.
Made 2420 MHz, 3449 MHz, and a 5651 MHz FM contacts with N6ZE/R using my HackRF One Portapack transceivers.
These were the first uses of the rigs. Next is to make some equipment refinements based on this experience.73,

Steve Noll WA6EJO

Selected July Contests & Special Events

Please see QST or the ARRL website (www.arrl.org) for any details and QSL information.

Maty Weinberg, KB1EIB, events@arrl.org; www.arrl.org/special-event-stations

Special Event Stations

Working special event stations is an enjoyable way to help commemorate history. Many provide a special QSL card or certificate!

June 12 – June 20, 1300Z – 1300Z, WØDBQ, Dubuque, IA. Great River Amateur Radio Club. **Iowa's Islands on the Air (US Islands on the Air)**. 14.260 28.560 18.128 3.755. Certificate & QSL. Great River Amateur Radio Club, P.O. Box 1384, Dubuque, IA 52004. *Certificate for working five Iowa Islands.* See **https://usislands.org** *or* **www.w0dbq.org**

June 19 – June 27, 0000Z – 2359Z, W8M, Cincinnati, OH. OH-KY-IN ARS. **International Museums Weekends 2021 — Cincinnati Art Museum**. 14.250 7.250. QSL. Robert Frey, WA6EZV, 7895 Jessies Wy., Apt. 301, Hamilton, OH 45011. *Operating Saturday and Sunday per International Museums Weekends recommendations.* **www.ohkyin.org**

June 29 – July 2, 1200Z – 1000Z, K2BSA/8, Metamora, MI. Garden City Amateur Radio Club. **Boy Scouts of America/ Michigan Crossroads Council — Trail To Eagle XXVII**. 14.330 7.270 3.840. QSL. Richard Zarczynski, AC8FJ, 7371 N. Farmington Rd., Westland, MI 48185-6900. *K2BSA/8 will be operating at the D-Bar-A Scout Ranch as time permits. Grid: EN82ix.* **https://scoutingevent.com/272-ttexxvii**

June 27 – July 11, 1200Z – 2359, K9U, Liberty, IN. Union County Indiana Bicentennial Board. **Union County Indiana Bicentennial**. 14.040 3.540 7.185 7.035. QSL. Howie Huntington, K9KM, 25350 N. Marilyn Ln., Hawthorn Woods, IL 60047. **k9km@arrl.net**

June 28 – July 9, 0000Z – 2359Z, K1P, Hinsdale, MA. K1TTT. **250th Anniversary of Peru, Massachusetts**. 14025 14074 14085 14250. QSL. Via LoTW or direct to David Robbins, 15 Baumann Rd., Hinsdale, MA 01235. *Medallions for most band/mode combinations.* **wiki.k1ttt.net/Peru250thAnniversary.ashx**

July 3, 1400Z – 2000Z, K4RC, Williamsburg, VA. Williamsburg Area Amateur Radio Club. **Colonial Williamsburg Special Event — 245th Anniversary of the Signing of the Declaration of Independence**. 7.265 14.265. Certificate & QSL. QSL Manager, P.O. Box 1470, Williamsburg, VA 23187. **www.k4rc.net**

July 4, 1400Z – 2200Z, W7PX, Missoula, MT. Hellgate Amateur Radio Club. **Independence Day Celebration at Fort Missoula**. 14.260 7.195. QSL. Hellgate Amateur Radio Club, P.O. Box 3811, Missoula, MT 59806-3811. **www.w7px.org**

July 10, 1000Z – 1600Z, WA4USN, Hanahan, SC. Charleston Amateur Radio Society. **50th Anniversary**. 7.190 14.265; General-class frequencies, 20 and 40 meters. QSL. Bill Dean, 30 Lombardi Ln., Hanahan, SC 29410. **www.wa4usn.org**

July 10, 1600Z – 2300Z, NI6IW, San Diego, CA. USS *Midway* (CV-41) Museum Ship. **Independence Day**. 14.320 7.250 PSK31 and CW (various) D-STAR. QSL. USS *Midway* (CV-41) COMEDTRA, 910 N. Harbor Dr., San Diego, CA 92101. *Check spotting networks to find us on HF. See* **www.dstarusers.org** *to find our call sign, NI6IW, and Reporting Note to see what reflector we're using.* **www.qrz.com/db/ni6iw**

July 11 – July 18, 0000Z – 2300Z, K9R, Vincennes, IN. Red Skelton Museum of American Comedy. **Red Skelton Museum of Comedy Festival 2021**. Frequencies TBD. Certificate & QSL. Mark Steven Williams, K9GX, P.O. Box 5973, Elizabeth, IN 47117-5973. **www.facebook.com/groups/368704358206875**

July 17 – July 19, 0600Z – 0600Z, KCØLFF, Silverton, CO. **Hardrock Endurance Run**. Kendal Mountain 147.375 + PL 156.7, Engineer Mountain 147.270 + PL 12. QSL. Shauna and Steve Blaylock, 327 Hillcrest Dr., Durango, CO 81301. **www.hardrock100.com**

July 18, 1300Z – 2100Z, KY8C, New Concord, OH. Cambridge Area Maker Group. **John Glenn's 100th Birthday Celebration — John Glenn Museum**. 14.290 14.275 7.275 7.240. QSL. Cambridge Area Maker Group, Robert M. Howell, N8WJ, 69081 Mount Hermon Rd., Cambridge, OH 43725-9469. **www.cambridgeareamakers.org**

July 19 – July 22, 1220Z – 1220Z, WX4SOC, Gatlinburg, TN. Special Operations Radio Team. **Public Safety Cadet National Conference**. 3.975 LSB 7.725 LSB. Certificate. Darrell Collier, 234 Historic Nature Tr., Gatlinburg, TN 37738. **www.sort-team.org**

July 19 – July 24, 2330Z – 0130Z, W4H, Boonville, IN. Warrick ARES/RACES. **Warrick County 4-H Fair**. 14.320 SSB. QSL. Steve Connaughton, 7677 Jenner Rd., Chandler, IN 47610. **Celebrating the Warrick County Indiana 4-H Fair**. *Additional frequencies and modes may be used depending on band and weather conditions. Operating mostly late afternoons and evenings.* **www.warrickaresraces.org**

July 24, 1200Z – 2100Z, W4R, Hampton, VA. Blackbeard's Crew. **Pirates Parlay**. 14.260 14.255 7.198 7.177. Certificate. Jason Gnatowsky, 25 Melita Rd., Arvonia, VA 23004.

July 24, 1700Z – 2100Z, W8VP, Cambridge, OH. Cambridge Amateur Radio Association. **Ohio Salt Fork State Park 61st Anniversary**. 7.235 14.245. Certificate.* Cambridge Amateur Radio Association, P.O. Box 1804, Cambridge, OH 43725. **www.w8vp.org**

July 31 – Aug. 1, 1400Z – 1900Z, N3P, Susquehanna, PA. Binghamton Amateur Radio Association. **66th Season at Penn Can Speedway**. 28.350 14.260 7.260 146.865 repeater (146.2 tone). Certificate. Robert Mess, 2505 Oak Hill Rd., Susquehanna, PA 18847. **ws2u.bob@gmail.com** *or* **www.w2ow.org**

Selected July Contests & Special Events (Continued.)

June 12 – June 20, 1200Z – 2100Z, K3USI, Fredericksburg, VA. US Island Awards Program. **1st Annual US Island Special Event Week**. 28.460 21.260 14.260 7.260. Certificate. Jay Chamberlain, 27 Fox Run Ln., Fredericksburg, VA 22405. *(US Island Chasers/Activators.) See website for information. This is an operating event.* **w4ybv@yahoo.com** *or* **www.usislands.org**

June 15 – June 20, 1400Z – 2100Z, N5A, Springdale, AR. Razorback Contest Club. **185th Anniversary of Arkansas Statehood**. 14.260 14.040 7.220 7.040. QSL. Razorback Contest Club, 3407 Diana St., Springdale, AR 72764. **rccw5yo@cox.net**

June 25 – June 28, 0000Z – 2359Z, N6R, Simi Valley, CA. Ventura County Amateur Radio Society. **Field Day 2021**. 21.320 14.255 7.260 3.810. QSL. Peter Heins, N6ZE, 1559 Norwich Ave., Thousand Oaks, CA 91360. *Commemorating the lives of President Ronald and Mrs. Nancy Reagan. N6R is hoping to operate from the Reagan Presidential Library. Please check website for updated information.* **www.qrz.com/db/n6r**

June 26 – July 2, 1800Z – 1800Z, K6V, Weed, CA. National Speleological Society. **NSS Annual Convention**. 14.285 14.050 7.195. Certificate & QSL. Sam Rowe, 2749 Commercial Ave., Madison, WI 53704. *Slow CW Saturday only.* **www.caves.org**

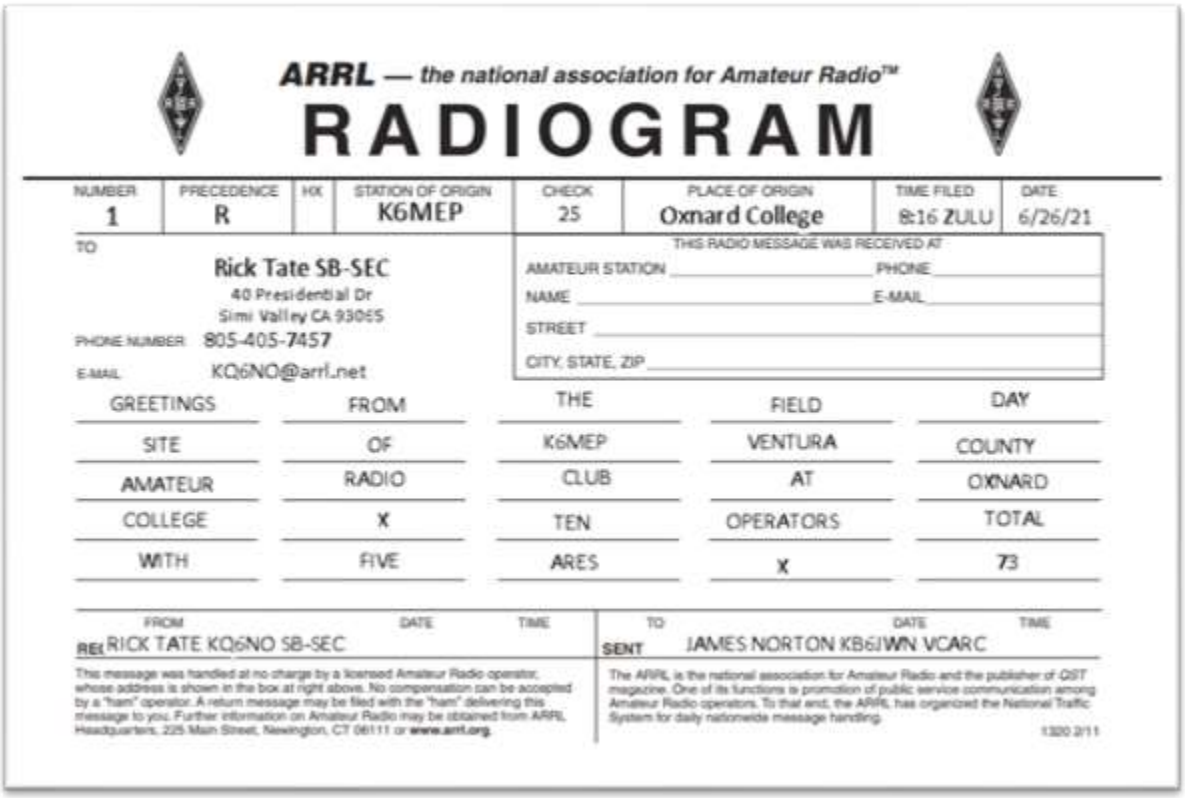
June 27 – July 11, 1200Z – 2359, K9U, Liberty, IN. Union County Indiana Bicentennial Board. **Union County Indiana Bicentennial**. 14.040 3.540 7.185 7.035. QSL. Howie Huntington, K9KM, 25350 N. Marilyn Ln., Hawthorn Woods, IL 60047. *Visitors are welcome to participate.* **k9km@arrl.net**

Certificates and QSL cards: To obtain a certificate from any of the special event stations offering them, send your QSO information along with a 9 × 12 inch self-addressed, stamped envelope (three units of postage) to the address listed in the announcement. To receive a special event QSL card (when offered), be sure to include a self-addressed, stamped business envelope along with your QSL card and QSO information. *Note: Some clubs may ask for a nominal fee to cover the cost of the certificate or QSL. Request will be made on air during the event or on the club's website.

Special Events Announcements: For items to be listed in this column, use the ARRL Special Events Listing Form at **www.arrl.org/special-events-application**. A plain-text version of the form is available at that site. You may also request a copy by mail or email. Off-line completed forms can be mailed, faxed (Attn: Special Events), or emailed.

Submissions must be received by ARRL HQ no later than the 1st of the second month preceding the publication date; a special event listing for **September** *QST* would have to be received by **July 1**. In addition to being listed in *QST*, your event will be listed on the ARRL Web Special Events page. Note: All received events are acknowledged. If you do not receive an acknowledgement within a few days, please contact us. ARRL reserves the right to exclude events of a commercial or political nature.

You can view all received Special Events at **www.arrl.org/special-event-stations**.



ARRL — the national association for Amateur Radio™

RADIOGRAM

NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME FILED	DATE
1	R		K6MEP	25	Oxnard College	8:16 ZULU	6/26/21

TO
Rick Tate SB-SEC
40 Presidential Dr
Simi Valley CA 93065
PHONE NUMBER 805-405-7457
E-MAIL KQ6NO@arrl.net

THIS RADIO MESSAGE WAS RECEIVED AT
AMATEUR STATION _____ PHONE _____
NAME _____ E-MAIL _____
STREET _____
CITY, STATE, ZIP _____

GREETINGS	FROM	THE	FIELD	DAY
SITE	OF	K6MEP	VENTURA	COUNTY
AMATEUR	RADIO	CLUB	AT	OXNARD
COLLEGE	X	TEN	OPERATORS	TOTAL
WITH	FIVE	ARES	X	73

FROM	DATE	TIME	TO	DATE	TIME
REC RICK TATE KQ6NO SB-SEC			SENT JAMES NORTON KB6JWN VCARC		

This message was handled at no charge by a licensed Amateur Radio operator, whose address is shown in the box at right above. No compensation can be accepted by a "ham" operator. A return message may be filed with the "ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225 Main Street, Newington, CT 06111 or www.arrl.org.

The ARRL is the national association for Amateur Radio and the publisher of *QST* magazine. One of its functions is promotion of public service communication among Amateur Radio operators. To that end, the ARRL has organized the National Traffic System for daily nationwide message handling.

1320 2/11

Contest Corral

Bruce Draper, AA5B, aa5b.corral@gmail.com

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		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	nrrlcontest.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)	wwsac.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 Weeksprint	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	t8activity.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 Weeksprint	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/chempionat-rossii-po-radiosvyazi-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.*

Upcoming FCC Exam Session Preparation Sites

(Virtual only; physical classes are unavailable in July within 250 miles of Ventura)

Upcoming FCC Exam Test

GLAARG is offering remote testing; see https://glaarg.org/remote-sessions/ for details)

Goleta CA 93117-3271
07/10/2021
Sponsor: Santa Barbara ARC
Date: Jul 10 2021
Time: 9:00 AM (Walk-ins allowed)
Contact: Tom Saunders
(805) 969-2326
Email: veteam@sbarc.org
VEC: ARRL/VEC
Location: Impulse Communications
6144 Calle Real
Goleta CA 93117-3271

Valencia CA 91355-2008
07/17/2021
Sponsor: Santa Clarita ARC
Date: Jul 17 2021
Time: 8:00 AM (No Walk-ins / Register or Call ahead)
Contact: Ronald B. Klein
(661) 259-0948
Email: testing@w6jw.org
VEC: Greater LA VEC
Location: United Methodist Church of Valencia
25718 McBean Pkwy
Rm B
Valencia CA 91355-2008

On Exam Day Bring the Following Items:

1. One legal photo ID (identification):
   a. State Driver's License, b. Government issued Passport, c. Military or Law Enforcement Officer Photo ID card, d. Student School Photo ID card, e. State Photo ID card.
2. If no photo ID is available, two forms of identification:
   a. Non-photo State ID card (some states still have them), b. Birth certificate (must have the appropriate seal), c. Social security card, d. Employer's wage statement or Minor's work permit, e. School ID card, f. School or Public Library card, g. Utility bill, bank statement or other business correspondence that specifically names the person; or a postmarked envelope addressed to the person at his or her current mailing address as it appears on the Form 605.
3. Students/minors without a photo ID need to bring only one of the above items if a legal guardian presents their photo ID; otherwise two non-photo IDs are required. Minor children (under the age of 18) may be accompanied in the room by an adult during the test.
4. FCC Registration Number (FRN): VECs are required by the FCC to submit your FRN with your license application form. New license applicants must create an FCC user account and register their Social Security Number (SSN) in the FCC Commission Registration System (CORES) before attending exam sessions. Registrants will be assigned an FRN which will be used in all license transactions with the FCC. For instructions on how to register your SSN and receive an FRN from the FCC, visit the FCC's Registration page and the FCC's Registration instructions page. Per FCC rules, a valid email address is also mandatory on the application form.
5. If applicable, bring a printed copy of your Amateur Radio license. Acceptable copies or printouts of licenses are available from the following sources: the official license or reference license printed from the FCC website or license data printed from the ARRL website or QRZ website. The original(s) and photocopy(s) of any Certificates of Successful Completion of Examination (CSCE) you may hold from previous exam sessions. If your license has already been issued by the FCC, the CSCE showing license credit is not needed. The candidate is required to show proof of the current license to the team but the team is no longer required to submit the proof to the VEC. Expired license proof must be submitted to the team and to the VEC for processing to FCC. These photocopies will not be returned. Instructions on how to obtain an official FCC license copy are on our Obtain License Copy web page.
6. Two number two pencils with erasers and a pen for in-person sessions.
7. A calculator with the memory erased and formulas cleared is allowed. You may not bring any written notes or calculations into the exam session. Slide rules and logarithmic tables are acceptable, as long as they're free of notes and formulas. Cell phone must be silenced or turned off during the exam session and the phones' calculator function may not be used. In addition, iPhones, iPads, Androids, smartphones, Blackberry devices and all similar electronic devices with a calculator capability, may NOT be used.
8. Bring a check, a money order or cash to cover the exam session fee(s). Check the ARRL VEC's current exam fees. The FCC hasn't started to accept the $35 fee, which will be paid directly to the FCC.
9. Be aware that some information about you will be made publicly available on the FCC's website.

Trivia for July 2021

Did you know???

1. That at the 1904 world's fair, yellow mustard was introduced for the hot dog?
2. 65 million Tootsie Rolls are wrapped each day?
3. Popcorn can pop as high as 3 feet?

Happy 4th of July!

KG6WXE

Dana

Calendar July 2021

3: CVARC Radio School
4: Happy Independence Day!
5: K6MEP Monday Night Net and Zoom Meeting, ACS/ARES District Zoom Meeting
6: ACS/ARES Tuesday Night Net and Simplex
8: ACS/ARES Tuesday Night Net
9: K6MEP Monthly Club Meeting and Installation of New Board at the Dudley House
10: CVARC Radio School
12:K6MEP Monday Night Net and Zoom Meeting
13: ACS/ARES Tuesday Night Net
17: CVARC Radio School
19: K6MEP Monday Night Net and Zoom Meeting
20: ACS/ARES Tuesday Night Net
24: CVARC Radio School
26: K6MEP Monday Night Net and Zoom Meeting
27: ACS/ARES Tuesday Night Net
31: CVARC Radio School

(Repeated from the CVARC website). The wildly successful "Auxiliary Bored Meetings" will continue on a new schedule beginning Monday, June 29, 2020. The informal nets have been running four times daily on the Bozo repeater. Over 7,500 calls from 275 unique hams have been logged on the nets. Under the new schedule, the net will be called to order at 9 A.M. Monday through Saturday. The Saturday morning net will run 9 A.M. to noon with a swap and the repeater will linked with Paul Strauss' (WD6EBY) repeater network for full Ventura County coverage. Starting July 11, 2020, there will be a second Saturday net at 9 P.M.

The Bozo Repeater operates with the following settings:

Frequency: 147.885 MHz
Offset: –
PL: 127.3

Stu AG6AG

http://www.cvarc.org/event/auxiliary-bored-meetings-on-bozo-3/2023-02-11/

K6MEP Monday Night Net Script

QST- QST- QST. This is _____(Name)_____(Call Sign), with the Ventura County Amateur Radio Club Net. If there is any station with EMERGENCY or PRIORITY Traffic that needs the immediate use of this frequency, please come now.

Hearing none, the following is a QST. This is _____(Name) _____ (Call Sign), tonight's net control station for the Ventura County Amateur Radio Club Net. If, at any time, during tonight's net, anyone needs this frequency for emergency or priority traffic, please call net control, and we will respond appropriately.

This is a directed net, open to all amateur radio operators and is sponsored by K6MEP, the call sign for VCARC. This net begins each Monday evening at 20:00 local time on the WD6EBY linked repeater system.

The primary frequency of this net is 145.200 MHz with a minus offset and a PL of 127.3 Hz. If the repeater should fail for any reason, we can use South Mtn. repeater on 146.385 MHz with a positive offset and a PL of 127.3 Hz as backup.
All amateurs are welcome to check in after the following announcements.
A roundtable will follow the check-ins. A rag chew session may follow the formal net. We will have a Zoom meeting following the net.

K6MEP, the Ventura County Amateur Radio Club, meets at 19:30 hours on the second Friday of each month at The Dudley House, 197 N Ashwood Ave, Ventura, CA. The club meeting will also be on Zoom. Our next meeting will be on Friday _____ (insert date). We urge any non-members interested in the VCARC to contact us at K6MEP@qsl.net. Non-members interested in amateur radio are welcome to attend our meetings.
When you check-in, please give your call sign, name and if you are a VCARC member. If you are not a member of the club, please include your QTH or location.

(Check-ins completed): Hearing no other check-ins, we will now begin with our Roundtable
****

Any last comments? ******** Any late, missed, or visitor check-ins?
Please check-in now.

Hearing no new check-ins does anyone have anything else they would like to add to tonight's net?
Hearing none;
(Closing): This concludes the VCARC weekly net at _____hours. Thank you for your interest and participation. Also thanks to Paul Strauss, WD6EBY, for the use of the repeater for our K6MEP net.
73, this is _____ call sign), tonight's VCARC net control, signing off and returning the repeater to its normal use.

Convention and Hamfest Calendar

Steve Ewald, WV1X, sewald@arrl.org; www.arrl.org/hamfests-and-conventions-calendar

Convention and Hamfest Calendar

A = AUCTION
D = DEALERS / VENDORS
F = FLEA MARKET
H = HANDICAP ACCESS
Q = FIELD CHECKING OF QSL CARDS
R = REFRESHMENTS
S = SEMINARS / PRESENTATIONS
T = TAILGATING
V = VE SESSIONS

Abbreviations
Spr = Sponsor
Tl = Talk-in frequency
Adm = Admission

Idaho (Post Falls) — Aug. 7 D H R S T
9 AM – 2 PM. *Spr:* Kootenai Amateur Radio Society. Farm Field, 2130 N. Meyer Rd. *Tl:* 146.98 (127.3 Hz). *Adm:* $5. **www.k7id.org**

Illinois (Carlinville) — Aug. 7 D F H Q R S T V
7 AM – 1 PM. *Spr:* Macoupin County ARC, Montgomery County ARC, Okaw Valley ARC, and Sangamon Valley Radio Club. Macoupin County Fairgrounds, 21149 State Rte. 4. *Tl:* 444.250 (103.5 Hz). *Adm:* $5. **www.k9mce.com**

Illinois (Peotone) — July 18 D F H T V
6 AM – 2 PM. *Spr:* Kankakee Area Radio Society. Will County Fairgrounds, 710 S. West St. *Tl:* 146.94 (107.2 Hz). *Adm:* $8 advance, double stub; $10 door, single stub. **www.w9az.com**

Illinois (Peotone) — Aug. 1 D F H R T
6 AM gate, 8 AM exhibition hall. *Spr:* Hamfesters Ham Radio Club. Will County Fairgrounds, 710 S. West St. *Tl:* 442.450 (131.8 Hz). *Adm:* $8. **www.hamfesters.org/hamfest**

Indiana (Elkhart) — Aug. 7 D H
9 AM – 3 PM. *Spr:* Northern Indiana K9DEW Repeaters. Northern Indiana Event Center, 21565 Executive Pkwy. *Tl:* 145.430 (141.3 Hz). *Adm:* $8. **www.elkhartеasthamfest.com**

Indiana (Winchester) — July 31 D F H R S T V
8 AM – 5 PM. *Spr:* Randolph County ARC. Randolph County Fairgrounds,1885 S. US Hwy. 27. *Tl:* 147.300 (110.9 Hz). *Adm:* Free. **www.sites.google.com/view/ecindianahamfest**

ARRL IOWA STATE CONVENTION
August 7 – 8, Central City, Iowa
D F H Q R S T V
8 AM – 3 PM. *Spr:* Cedar Valley ARC and Collins ARC. Linn County Fairgrounds, 201 Central City Rd. *Tl:* 146.745 (192.8). *Adm:* $10. **www.w0gq.org/hamfest**

Michigan (Shelby Township) — July 17 D F
8 AM – noon. *Spr:* GM Amateur Radio Club. Packard Proving Grounds, 49965 Van Dyke Ave. *Tl:* 443.075 (123 Hz). *Adm:* $8. **www.gmarc.org**

Missouri (O'Fallon) — Aug. 8 D F H R V
Flea market 7 AM – noon, Hall 8 AM – noon. *Spr:* St. Charles ARC. O'Fallon Elks Lodge, 1163 Tom Ginnever Ave. *Tl:* 146.670, alternate 145.330. *Adm:* one ticket for $5, five tickets for $20. **www.wb0hsi.org/hamfest**

Missouri (Warrensburg) — July 17 D H R S T
7 AM – 1 PM. *Spr:* Warrensburg Area ARC, Inc. Johnson County Fair Association, 144 NW 361st Rd. *Tl:* 146.88 (107.2 Hz). *Adm:* Free. **www.waarci.org**

ARRL MONTANA STATE CONVENTION
July 16 – 18, Essex, Montana
D F R S T V
9 AM – 7 PM. *Spr:* Great Falls Area ARC. Glacier Meadow RV Park, 15735 US-2. *Tl:* 146.52. *Adm:* $5. **www.gwhamfest.org**

New Jersey (Augusta) — July 18 D F H Q R T V
8 AM – 3 PM. *Spr:* Sussex County ARC. Sussex County Fairgrounds, 37 Plains Rd. *Tl:* 147.30 (151.4 Hz). *Adm:* $8. **www.scarcnj.org**

New Jersey (Wall Township) — July 24 D F H R T
8 AM – noon. *Spr:* New Jersey Antique Radio Club. Info Age Science and History Museums, 2201 Marconi Rd. *Tl:* none. *Adm:* $5. **www.njarc.org**

New York (Camillus) — July 10 D F H R T V
7:30 AM – 12:30 PM. *Spr:* Radio Amateurs of Greater Syracuse. Camillus Elks Lodge #2367, 6117 Newport Rd. *Tl:* 146.91 (103.5 Hz). *Adm:* $5. **www.ragsclub.org**

North Carolina (Waynesville) — July 24 F R T V
8 AM – 2 PM. *Spr:* Western Carolina ARS. Smoky Mountain Event Center (Haywood County Fairgrounds), 758 Crabtree Rd. *Tl:* none. *Adm:* $8 door; $6 advance. Email: **wcars.nc.hamfest@gmail.com**.

North Dakota (Dunseith) — July 10 F H R S T V
9 AM – 7 PM. *Spr:* Souris Valley ARC. Peace Garden Lodge, 10939 US-281. *Tl:* 146.52 simplex, 444.500 repeater. *Adm:* $10. Phone: **701-833-1000**

Ohio (Elyria) — July 17 D F H R T
8 AM – noon. *Spr:* Northern Ohio ARS. Lorain County Community College, 1005 N. Abbe Rd. *Tl:* 146.70 (110.9 Hz). *Adm:* $7. **www.noars.net**

Ohio (Grove City) — Aug. 7 F H R T
8 AM – 1 PM. *Spr:* Aladdin Shrine Audio Unit. Aladdin Shrine Center, 1801 Gateway Cir. *Tl:* 146.76 (123.0 Hz). *Adm:* $5. **www.columbushamfest.com**

Ohio (Van Wert) — July 18 F H R T
8 AM – 1 PM. *Spr:* Van Wert ARC. Van Wert County Fairgrounds, 1055 S. Washington St. *Tl:* 146.85. *Adm:* Free. **www.w8fy.org**

VIRTUAL PACIFIC NORTHWEST DX CONVENTION
August 7, Online
8:30 AM – 6 PM Pacific Time. *Spr:* Willamette Valley DX Club. *Adm:* Free. **www.pacificnwdxconvention.com**

Pennsylvania (Chambersburg) — July 31 D F H Q R T V
8 AM – noon. *Spr:* Cumberland Valley ARC. CVAEMA Showgrounds, 1501 Criders Church Rd. *Tl:* 147.120 (100 Hz). *Adm:* $5. **www.w3ach.org**

Pennsylvania (Erie) — July 10 F R T V
7 AM – noon. *Spr:* Wattsburg Wireless Association. Greene Township Municipal Building, 9333 Tate Rd. *Tl:* 147.315 (186. 2). *Adm:* Free. **www.wattsburg-wireless.us**

Pennsylvania (Phoenixville) — July 17 D F H Q R T V
8 AM. *Spr:* Mid-Atlantic ARC. Kimberton Fire Company Fairgrounds, 762 Pike Springs Rd. *Tl:* 147.060 (131.8 Hz) and 145.130 (131.8 Hz). *Adm:* $10. **www.marc-radio.org/hamfest2.htm**

Convention and Hamfest Calendar (Continued)

Pennsylvania (Sinking Spring) — Aug. 7 D F H R T V
8 AM – noon. *Spr:* Reading Radio Club, Inc. Heritage Park, 992 Clematis St. *Tl:* 146.91(131.8 Hz). *Adm:* $5; test takers and unlicensed family, free. **www.qsl.net/w3bn**

Tennessee (Athens) — July 17 D F H R T V
7 AM. *Spr:* McMinn County ARC. Athens Regional Park, 101 Regional Park Dr. *Tl:* 147.060 (141.3 Hz) and 146.490 simplex. *Adm:* $5. **www.mcminnarc.com**

Tennessee (Lebanon) — July 31 D H Q R S T V
8 AM – 3 PM. *Spr:* Wilson County ARC. James E. Ward Agricultural Center "Wilson County Fairgrounds" 935 E. Baddour Pkwy. *Tl:* 147.105 (156.7 Hz). *Adm:* $5. **www.midtnhamquest.com**

Virginia (Roanoke) — Aug. 7 D F H R S T V
8 AM – 1 PM. *Spr:* Roanoke Valley ARC. Gospel Light Baptist Church, 6307 Cloverdale Rd. *Tl:* 146.985 (107.2 Hz). *Adm:* Free. **www.w4ca.com**

Wisconsin (Chippewa Falls) — July 17 F H T
9 AM – 2:30 PM. *Spr:* Chippewa Valley ARC. Eagle's Banquet Center and Conference Hall, 2588 Hallie Rd. *Tl:* 147.375 (110.9 Hz). *Adm:* $5. **www.w9cva.org/hamfest**

Wisconsin (Onalaska) — Aug. 7 D F H Q R T V
8 AM – 1 PM. *Spr:* Riverland ARC. Onalaska American Legion Post 336, 731 Sand Lake Rd. *Tl:* 146.970 (131.8 Hz). *Adm:* $5. **www.rarc.qth.com**

Wisconsin (Jefferson) — Aug. 7 D F H V
8 AM – 1 PM. *Spr:* Tulare County ARC and JefCares. Spangler Campground, 892 N. Jackson Ave. *Tl:* 145.49 (123 Hz). *Adm:* $5. **www.w9mqb.com**

Emergency and Volunteer Training

Some excellent emergency and volunteer training is available through the American Red Cross of Ventura County, FEMA and the American Radio Relay League.

Red Cross Courses

The following is a list of locally available Red Cross courses and a current schedule of classes over the next two months. Enroll by calling the Red Cross Chapter House at 805-987-1514 Ext 320 leaving your name, course code and telephone number. If you are interested in a class not currently scheduled call to be placed on a waiting list for the next scheduled date.

Note: The classes **Fulfilling Our Mission** and **Introduction to Disaster Services** are required for all Red Cross classes if you are not currently registered as a Red Cross Volunteer.

For training class registration, call: 805-987-1514 Ext 320.

Course schedule and descriptions:

http://www.arcventura.org/DSCourseDescriptions.html

http://www.arcventura.org/contact_us.html

COLLABORATING TO ENSURE EFFECTIVE SERVICE DELIVERY(ARC3089-4)
COMMUNITY SERVICES OVERVIEW (ARC 3068-1)
DISASTER ASSESSMENT (ARC 3067-1)
DISASTER HEALTH SERVICES: OVERVIEW (3076-1F)
DISASTER HEALTH SERVICES SIMULATION (ARC 3076-2F)
DISASTER MENTAL HEALTH SERVICES (ARC 3077-1F)
DISASTER MENTAL HEALTH: AN OVERVIEW (ARC 3077-2)
DISASTER WELFARE INQ.:CONNECTING YOUR COMMUNITY(ARC 3085-1)
DISASTER WELFARE INQUIRY SIMULATION (ARC 3085-2)
EMERGENCY OPS CENTER/INCIDENT COMMAND LIAISON (ARC 3089-5)
ERVs: READY, SET, ROLL (ARC 3068-4)
FAMILY SERVICES: PROVIDING EMERGENCY ASSISTANCE (ARC 3072-1)
FINANCIAL STATISTICAL INFORMATION MANAGEMENT (ARC 3078-2)
HUMAN RESOURCES IN DISASTER (ARC 3087-3F)
LOGISTICS: AN OVERVIEW (ARC 3087-1)
LOGISTICS SIMULATION (ARC 3071-2)
MANAGING TOTAL DIVERSITY
MASS CASUALTY DISASTER (ARC 3079 1F)
PUBLIC AFFAIRS IN DISASTER 1 (ARC 3080 1F)
SAFE FOOD HANDLING WORKSHOP
SHELTER OPERATIONS (ARC 3068-11)
SHELTER SIMULATIONS (ARC 3068-12)
WORKING WITH TOTAL DIVERSITY

Scheduled Red Cross Classes

For training class registration, call: 805-987-1514
Please try to register for classes a week before the class is being offered

FEMA Courses

The following free **FEMA Independent Study Courses** are recommended. There are several other FEMA courses available; see the other courses at http://training.fema.gov/is

IS-5.a An Introduction to Hazardous Materials - (10/31/2013)
IS-10.a Animals in Disasters: Awareness and Preparedness - (10/2/2015)
IS-11.a Animals in Disasters: Community Planning - (10/2/2015)
IS-15.b Special Events Contingency Planning for Public Safety Agencies - (10/31/2013)
IS-20.19 Diversity Awareness Course 2019 - (1/30/2019)
IS-21.17 Civil Rights and FEMA Disaster Assistance - (1/25/2017))
IS-26 Guide to Points of Distribution - (8/11/2010)
IS-27 Orientation to FEMA Logistics - (10/31/2013)
IS-29 Public Information Officer Awareness - (10/31/2013)
IS-33.19 FEMA Initial Ethics Orientation 2019 - (1/30/2019)
IS-35.19 FEMA Safety Orientation 2019 - (1/30/2019)IS-36 Multi-hazard Planning for Childcare - (10/31/2013)
IS-42 Social Media in Emergency Management - (10/31/2013)
IS-75 Military Resources in Emergency Management - (2/25/2011)
IS-100.b Introduction to Incident Command System, ICS-100 - (10/31/2013)
IS-111.a Livestock in Disasters - (10/31/2013)
IS-144 Telecommunicators Emergency Response Taskforce (TERT) Basic Course - (10/31/2013)
IS-162 Hazard Mitigation Floodplain Management in Disaster Operations - (11/16/2016)
IS-200.b ICS for Single Resources and Initial Action Incidents - (10/31/2013)
IS-230.d Fundamentals of Emergency Management - (12/16/2013)
IS-235.c Emergency Planning - (12/15/2015)
IS-240.b Leadership and Influence - (6/16/2014)
IS-241.b Decision Making and Problem Solving - (3/31/2014)
IS-242.b Effective Communication - (3/31/2014)
IS-244.b Developing and Managing Volunteers - (3/29/2013)
IS-250.a Emergency Support Function 15 (ESF15) External Affairs: A New Approach to Emergency Communication and Information Distribution - (5/7/2012)
IS-271.a Anticipating Hazardous Weather & Community Risk, 2nd Edition - (10/31/2013)
IS-288.a The Role of Voluntary Organizations in Emergency Management - (2/12/2015)
IS-315 CERT Supplemental Training: The Incident Command System - (8/13/2013)
IS-317 Introduction to Community Emergency Response Teams - (6/26/2014)
IS-320 Wildfire Mitigation Basics for Mitigation Staff - (10/31/2013)
IS-322 Flood Mitigation Basics for Mitigation Staff - (10/31/2013)
IS-323 Earthquake Mitigation Basics for Mitigation Staff - (10/31/2013)
IS-325 Earthquake Basics: Science, Risk, and Mitigation - (10/31/2013)
IS-326 Community Tsunami Preparedness - (10/31/2013)
IS-366.a Planning for the Needs of Children in Disasters - (12/9/2015)
IS-368 Including People With Disabilities & Others With Access & Functional Needs in Disaster Operations - (2/20/2014)
IS-393.a Introduction to Hazard Mitigation - (10/31/2013)
IS-405 Overview of Mass Care/Emergency Assistance - (12/10/2013)
IS-454 Fundamentals of Risk Management - (10/31/2013)
IS-546.a Continuity of Operations Awareness Course - (10/31/2013)
IS-547.a Introduction to Continuity of Operations - (10/31/2013)
IS-559 Local Damage Assessment - (10/31/2013)
IS-700.b An Introduction to the National Incident Management System - (6/25/2018)
IS-775 EOC Management and Operations - (8/6/2008)
IS-800.b National Response Framework, An Introduction - (1/20/2017)
IS-815 ABCs of Temporary Emergency Power - (12/27/2016)
IS-906 Workplace Security Awareness - (10/31/2013)
IS-907 Active Shooter: What You Can Do - (12/28/2015)
IS-909 Community Preparedness: Implementing Simple Activities for Everyone - (10/31/2013)
IS-910.a Emergency Management Preparedness Fundamentals - (10/19/2012)
IS-915 Protecting Critical Infrastructure Against Insider Threats - (7/10/2013)
IS-916 Critical Infrastructure Security: Theft and Diversion – What You Can Do - (10/31/2013)
IS-922 Applications of GIS for Emergency Management - (10/31/2013)
IS-951 DHS Radio Interoperability - (9/22/2016)
IS-2200: Basic Emergency Operations Center Functions - (5/17/2019)
IS-2500 National Prevention Framework, an Introduction - (3/27/2018)
IS-2600 National Protection Framework, An Introduction - (3/27/2018)
IS-2700 National Mitigation Framework, an Introduction - (3/27/2018)
IS-2900.a National Disaster Recovery Framework (NDRF) Overview - (7/11/2018)

The **ARRL** offers several on-line courses. The courses listed here are recommended for those involved in disaster and emergency service. See these and other courses at the ARRL web site.

Introduction to Emergency Communication EC-001
HF Digital Communications EC-005
PR-101: ARRL Public Relations (EC-015)
Public Service and Emergency Communications Management for Radio Amateurs- EC-016

There are some costs with the ARRL courses but discounts and occasional scholarships are available to ARRL members. See ***www.ARRL.org*** for details and enrollment.

ACS/ARES Frequency Updates

The Tuesday night Ventura County ARES/ACS Net is held on the WD6EBY Sulphur Mt. Repeater. Local nets are 7:00 to 7:30 PM; County Net starts at 7:30 on WD6EBY Sulphur Mt. Repeater 145.200 (-) PL 127.3 / 445.560 Mhz(-) PL 141.3

Good Frequencies to have pre-programmed into your radios...

Area 1 Simi Valley – K6ERN 146.805 Mhz (-) PL 100.0
Area 2 Conejo Valley, T. Oaks, Newbury Park – N6JMI 147.885 Mhz (-) PL127.3 BOZO
Area 3 Camarillo, Somis,– K6ERN 147.915 Mhz (-) PL 127.3
Area 4 Oxnard, Port Hueneme, NBVC – WB6YQN 146.970 Mhz (-) PL 127.3
Area 5 Ojai Valley – N6FL 145.400 Mhz (-) PL 114.8
Area 6 Ventura City – WA6ZSN 146.385 Mhz (+) PL 127.3
Area 7 Santa Paula, Fillmore, Piru – WA6ZSN 146.385 Mhz (+) PL 127.3
Area 8 Moorpark, Santa Rosa Valley – K6ERN 145.460 Mhz (-) PL 127.3
County-Wide – WD6EBY 145.200 (-) PL 127.3
ACS Portable – VCACS/p 144.930/147.585 Mhz PL 127.3

WD6EBY SP 145.420 Mhz (-) PL 127.3
WD6EBY 447.480 (-) PL 156.7 Hz South Mtn.
K4NGL 145.360 Mnz (-) PL 156.7 Kimberly Peak

Other Good Area Frequencies ...

AA6DP 147.090 Mhz (+) No PL Catalina
K0AKS 147.150 Mhz(-) PL127.3 TOaks
K6CPT DCS 145.300 Mhz (-) PL100.0 LA DCS
K6CPT DCS 147.270 Mhz (-) PL100.0 LA DCS
K6DCS DCS22 147.225 Mhz (+) PL 94.8 LA DCS
K6ERN 146.880 Mhz (-) PL 127.3 SMRA Red Mt.
K6ERN 147.765 Mhz (-) PL 127.3 Olivas Park / SMRA
K6TZ 146.790 Mhz (-)PL131.8 SBARC
KB6C 147.735 Mhz (-) PL 100.0 Oat Mt / MMRA
N6EVC 146.850 Mhz (-) PL 94.8 Rasnow
N6FDR 145.260 Mhz (-) PL 100.0 Malibu
W6AAX 147.180 Mhz (+) PL 186.2 Verdugo Peak
W6GRG 146.940 Mhz (-) PL 127.3 Simi DSW Repeater
W6YJO 145.180 Mhz (-) PL 131.8 Sta Ynez
WA6FGK 146.640 Mhz (-) PL 127.3 Simi Valley
WA6PPS 147.300 Mhz (-) PL 110.9 L.A.City ACS
WB6OBB 147.000 Mhz (+) PL 131.8 Sta Barbara
WD6EBY 145.240 MHz (-) PL 127.3 Chatsworth Pk

Due to assignment and coordination of several D-Star Repeaters, TASMA, the southern California Two meter amateur frequency coordination body, has had to re-align several frequencies. Among these changes are the channelization (15 KHz spacing) of the 145.5 - 145.6 simplex allocation and reassignment of several frequencies from simplex to other uses.

None of the local Ventura County repeaters are directly affected; however several previous simplex frequencies are now in use either as repeater inputs or outputs. **New County ARES Packet frequency is 145.050 Mhz**;

Ventura County ARES-ACS simplex frequencies have been re-assigned as follows:

Area 1 Simi Valley – 145.510 Mhz (S)
Area 2 Conejo Valley, T.O., Newbury Pk – 146.445 Mhz (S)
Area 3 Camarillo, Somis – 146.550Mhz (S)
Area 4 Oxnard, Port Hueneme, NBVC – 146.595Mhz (S)
Area 5 Ojai Valley – 145.555Mhz (S)
Area 6 Ventura City – 147.510Mhz (S)
Area 7 Santa Paula, Fillmore, Piru – 145.540 Mhz (S)
Area 8 Moorpark – 146.535Mhz (S)
County ARES Simplex – 145.615 Mhz (S)
National Simplex – 146.520Mhz(S)

Ventura County ARES / ACS Emergency Coordinators

ACS RO/ARES DEC: Rob Hanson, W6RH, Email: w6rh@arrl.net
Assist ACS RO/Deputy DEC: Rick Tate, KQ6NO Email: kq6no@arrl.net

Area 1 Simi Valley EC: Steve King, KE6WEZ Email: ke6wez@gmail.com
Area 2 TO, Conejo Valley EC: Zack Cohen, N6PK , Email: n6pk@arrl.net
Area 3 Camarillo, Somis EC: Avi Carmi, K6AVI Email: avi@carmi.us
Area 4 Oxnard, Hueneme, Mugu EC:Hovan Salibian, KI6BQL Email: ki6bql@arrl.net
Area 5 Ojai EC: Wayne Francis, W6OEU Email: w6oeu@arrl.net
Area 6 City of Ventura EC (acting): James (Jim) Aguirre KM6GUE Email: KM6GUE@gmail.com
Area 7 Santa Paula, Fillmore, Piru EC: James (Jim) Aguirre KM6GUE Email: KM6GUE@gmail.com
Area 8 Moorpark, Santa Rosa Valley EC: Marc Hanley KM6B, Email: km6b@arrl.net

ACS/ARES Training and News Rob Hanson W6RH

Rob Hanson W6RH Ventura County ACS Radio Officer, Ventura County ARES District Emergency Coordinator

David A. Minster, NA2AA, ARRL Chief Executive Officer, na2aa@arrl.org

Second Century

EmComm: It's In Our Purpose!

Emergency communications — EmComm — is in the spotlight this month in both QST and On the Air magazines as we begin the 2021 hurricane, tornado, and wildfire season. Let's look at why this is important, not just for some hams, but for all hams!

The ARRL Board knows the importance of emergency communications, and is creating a committee focused on its guidance and oversight. EmComm is also a critical element of the spectrum privileges we enjoy. FCC Part 97 provides us with the fundamental purpose of the Amateur Radio Service, and it doesn't mean that amateur radio equals public service! FCC Part 2.1c refers to the term "Service" as "the transmission, emission and/or reception of radio waves for specific telecommunication purposes." The Amateur Radio Service means much more than that. In just five simple principles, the FCC puts forward what it expects of us:

Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.

There are a few noteworthy things to unpack from this principle. The first is that it is our responsibility to make sure that the public at large understands the *value* of amateur radio. This is where our Section Managers and Public Information Coordinators/Officers come in. Social media can also play an important role here. The second point is that amateur radio is voluntary — it is your choice to participate — and it is noncommercial, meaning you're not getting paid, as it is your *avocation*, not your vocation. The third is that among all the ways we participate in demonstrating the value of amateur radio to the public, providing emergency communications is of particular importance! Every year, there are communities that find themselves in an unexpected disaster situation, with a disruption to commercial communications and/or power systems. Well-trained amateur radio operators respond with an emergency communications capability *when all else fails.*

Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.

This simple statement reinforces the fact that hams have proven their ability to innovate in the advancement of the state of the art. Today, much of the innovation we see is an expansion into software-defined radio, shack automation, remote access, connectivity embedded into radios and amplifiers, and weak signal modes. Think about how networking technologies like AREDN and Winlink may factor into EmComm in the future.

Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communication and technical phases of the art.

The FCC believes that, within the rules of Part 97, they have provided adequate support for hams to advance the state of the art. There's also an implication that there may be room to amend the rules to support new initiatives that can drive innovation. A good example is the use of various digital modes in support of EmComm. As we continue to develop new technologies, we can go — and have gone — to the FCC for reconsideration of sections of Part 97 that need to evolve.

Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.

ARRL is focused on rolling out our Learning Center platform to grow the community of trained EmComm operators. Your involvement in any on-the-air activities that improve your ability to copy signals and make contacts (e.g. nets, contests, POTA, etc.) helps meet this principle.

Continuation and extension of the amateur's unique ability to enhance international goodwill.

From our leadership and involvement in the IARU, to the relationships we enjoy with radio amateurs around the world, to putting boots on the ground in places like Abaco Island, Bahamas after Hurricane Dorian, we play a vital role fostering international goodwill. Radio signals recognize no boundaries and connect us all into one big community.

Taking the time to invest in training for yourself and readiness for your station will prepare you for the potential challenges this summer.

So, get prepared! Get more involved in meeting these five fundamental principles of our hobby, be radio active, be that connector with local hams, and stay safe!

NA2AA

David A. Minster, NA2AA
Chief Executive Officer

ACS/ARES Training and News Rob Hanson W6RH (Continued)

Date: Tue, Jun 15, 2021 at 9:53 AM
Subject: Sign up to volunteer for Wings over Camarillo 2021

YES, you heard it right; Wings over Camarillo is having its 2021 airshow on August 21st and 22nd.

From: main@vc-acs.groups.io [mailto:main@vc-acs.groups.io] **On Behalf Of** Hanson, Robert - W6RH
Sent: Saturday, June 12, 2021 5:23 PM
To: Main ACS
Subject: [vc-acs] National Weather Service Fire Danger

Some useful links if you want fire danger details

From: NewmanTW AE6JR
Subject: National Weather Service Fire Danger

https://www.nps.gov/articles/understanding-fire-danger.htm

https://www.nwcg.gov/publications/pms437/fuel-moisture/live-fuel-moisture-content

https://www.ncdc.noaa.gov/monitoring-references/dyk/deadfuelmoisture

http://stream1.cmatc.cn/pub/comet/FireWeather/S290Unit10FuelMoisture/comet/fire/s290/unit10/print.htm

http://stream1.cmatc.cn/pub/comet/FireWeather/S290Unit10FuelMoisture/comet/fire/s290/unit10/print.htm#page_1.4.0

ACS/ARES Training and News Rob Hanson W6RH (Continued)

Lucy Jones says this is the most important thing you can do to prepare for a quake

LA Times, Saturday, June 12, 2021, 4pm: https://www.latimes.com/california/story/2021-06-12/earthquake-preparedness-tips-lucy-jones By LUCY JONES SEISMOLOGIST AND AUTHOR

People, not kits. If you really want to be ready for the next big earthquake, forget the earthquake kit and go talk to your neighbors.

All Southern Californians know we have earthquakes and that we should do something to be ready for them. But we have very different opinions about what an earthquake means to us and what we should do about them.

If you've never felt a strong earthquake, your fear may be about the moment of the earthquake itself. The unseen threat that could trap you in a pile of rubble at an unpredictable time taps into our primal fears of the unseen predator. This is why people keep searching for earthquake prediction even though good building codes do more to save lives.

First responders and emergency managers focus on the immediate aftermath. They have seen too many people begging for water after a disaster. In the Red Cross shelters, they've seen the necessity of medications and the emotional benefits of comfort items. They want everyone to have a kit to reduce this pain.

But to those who study disasters and their impacts — something I've dedicated my professional life to as a researcher in seismology at the U.S. Geological Survey and Caltech, and now with the Dr. Lucy Jones Center for Science and Society — a disaster is something much bigger than the immediate devastation or even those first few days or weeks.

The real impact is seen in how the community recovers from the disaster. Does it return to prosperity? Or does the community fade away as its people lose hope?

We have seen impacts that last years or even decades. We've seen neighborhoods and towns that never recover and cities that really struggle. San Francisco before the 1906 earthquake was the only city that mattered on the West Coast, but you could argue that it took the rise of Silicon Valley nearly a century later for it to regain its standing.

We also see impacts on individuals stretching out over longer times. It is no surprise that personal bankruptcies and small business failures increase after disasters. Disaster insurance is an underutilized resource, and few small businesses can afford the expected large losses in a major disaster. But a recent study also found a 23% increase in suicides in counties where a major disaster was declared for three years after the event.

The path to recovery after a disaster is created by people: People who choose to stay in a damaged neighborhood. People who choose to offer a place to stay to someone whose home is being repaired. People who choose to support their local businesses and make sure they can stay open and viable. Social scientists have been able to demonstrate that communities with a high level of social capital, where people are connected to one another, recover more quickly and more completely after disasters. Connecting with people we live near is no longer as obvious as it once was. Because we can electronically stay connected with friends and families even when we move to a new town, we do not have as strong a need for human connection driving us to start new relationships with our neighbors.

ACS/ARES Training and News Rob Hanson W6RH Continued

Those distant friends can help us after a disaster — perhaps giving us the ability to leave the devastated community. The result is one less person available to help that community recover. If Southern California will continue to be a place we want to live in after the earthquake, we need our fellow Southern Californians to choose to stay when our infrastructure is damaged and our economy is disrupted, and choose to work together to rebuild. Communities recover because community members choose to commit themselves to that recovery. That commitment comes from a sense of connectedness, and that is best created before the disaster.

How do we do that? There are as many ways as there are relationships, but here are some ideas to start:

Host a block party or neighborhood happy hour. You can have a discussion of who has a long commute and might not be able to get home or who has medical experience. You are developing resources to help, and you are also getting to know each other and strengthening your relationships.

Create a building or block private Facebook group where you can share planning. This is also a great way to communicate after the event as long as you can connect to the internet.

Work with the organizations where you already connect with other people. Perhaps that is a mosque or church, a reading group or community choir. Think about how you could help one another. Have you ever talked about disaster preparedness there? Have those conversations now.

Then help that organization connect with other organizations in the community. How many churches have another faith community on the same block? What if you could help each other? Bonus: You get to know each other better.

Think about your disaster supplies (those kits I maligned at the beginning). Do you want those to be things you hoard or things you share? Neighborhoods that plan together and help one another after the event will be the neighborhoods that don't have abandoned homes and sagging property values two years after the earthquake.

When authorities encourage you to get ready for an earthquake, they often try to focus on individual actions, because, well, they are talking to individuals. So we hear, "Get a kit!" "Make a plan!" "You need to protect your family!" And although it is not intentional, this can become a message of isolation, that you will be alone.

If you stay alone, believing that your neighbor may become your enemy, you will create a self-fulfilling prophecy and your neighbor won't be helping you.

So before you think about supplies, go talk to your neighbor. Make the meaningful connections that mean you will help each other after the earthquake and be part of keeping Southern California a place we want to live. The relationships you form and your sense of belonging will be the driver to our hastened recovery.

73,

Rob W6RH

ARES Training and News (Continued)

ARRL offers online training for hams who want to participate in the Amateur Radio Emergency Service.

The time for training is before a disaster...not during one.

The former Amateur Radio Emergency Communications (AREC) series of three training courses has been reconfigured into two courses: An introductory course and a course for leaders and managers.

Introduction to Emergency Communication (#EC-001)

Revised in 2018, this is an update of the former Level 1 course. It is designed to provide basic knowledge and tools for hams who want to serve as a Public Service volunteer. It provides an opportunity for non-hams who rely on communications in emergency situations to learn about Amateur Radio and its unique role in emergencies.

For start dates, registration deadlines and more visit www.arrl.org/online-course-catalog

Public Service and Emergency Communications Management for Radio Amateurs (#EC-016)

Launched in 2010, this course is designed for Amateur Radio operators who will be in leadership and managerial roles, organizing other volunteers to support public service activities and communications emergencies. Participants will learn how radio amateurs prepare to support local community events and, when working in coordination with governmental and emergency response organizations, how to deploy their services. This is a self-study course. For more information and to register visit www.arrl.org/online-course-catalog.

PR-101: ARRL Public Relations (EC-015)

This is a basic training course for PIOs and anyone interacting with the media and promoting Amateur Radio.

This course is designed to give hams a quick overview in public relations activities. It uses the skills of experts in various aspects of public relations to provide volunteer Public Information Officers with the basic skills and expectations that a PIO needs to know to be effective in their home region.

PR-101 covers everything from the basic news release to Web sites and video work.

This course is available--free! – on-line, or can be purchased in CD format from the ARRL store.

Local Area Radio Weekly Nets Wayne Woodhams N6WIX

Monday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

Auxiliary Bored Meeting: MTWThF at 09:00 and on Saturday at 21:00 Hrs : Bozo Repeater Frequency: 147.885 MHz Offset: -PL: 127.3

California Rescue ARES Net 7.25 MHz MTWThF 08:30 Hrs

Santa Barbara South County ARES net 19:30 Hrs on 146.79 MHz (-) PL 131.8.

Southwest ACS Nets Every Monday at 18:30 Hrs, on a local station on the Cactus Intertye Network. Check-in by roll call. 4th Monday "grid test" 20:30 Hrs.

LA DCS-22 Net – 19:30 Hrs - K6DCS - 147.225 MHz (+) then on 7.2353 MHz LSB

K6MEP Net -20:00 Hrs 145.200 MHz (-) 127.3 PL

CESN (California Emergency Services Net) at 20:00 Hrs Primary frequency - 3992 kHz, Backup frequency - 3960 kHz. All free to listen, check-in by membership only.

LA Section ARES Net - HF Every Monday following the VHF/UHF net (21:30 Hrs) 1st. 3rd and 4th Monday - 75 meters 3.995 MHz (± 45 kHz) / 2nd Monday -10 meters 28.495 MHz

Tuesday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.250 MHz MTWThF 08:30 Hrs

Ventura County ARES-ACS 6 Meter Net - between 18:45 Hrs to 19:00 Hrs K6SMR 52.980 MHz (-) PL 82.5 SMRA Red Mt

Ventura County ARES-ACS Simplex Net - 18:30 Hrs on 147.510 MHz Simplex ORT schedule only!

Ventura County ARES-ACS HF Net - between 18:30 Hrs to 19:00 Hrs 40M on 7.235 MHz LSB +/-

Ventura County ARES/ACS Nets between 19:00 and 20:00 Hrs. The County-wide net starts at 19:30 Hrs and normally finishes by 20:00 Hrs on WD6EBY 145.200 MHz (-) /127.3 PL

SBARC Swap Net 146.790 MHz (-) / 131.8 Hz PL and 145.180 MHz (-) / 131.8 Hz PL 19:30-20:00 Hrs

West SB ARES HF Net (1" Tuesday, Monthly) 3822 kHz LSB 20:30 Hrs

6-Meter Roundtable - 50.125 MHz USB First Tuesday of each month 20:00 Hrs

ATV Net 20:30 Hrs 148.790 MHz (-) / 131.8 Hz PL RITZ repeater

SBARC Digital Communications Net 146.790 MHz (-) / 131.8 Hz PL and 145.180 MHz (-) / 131.8 Hz PI 8:00 - 10:00 PM

Wednesday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.25 MHz MTWThF 08:30 Hrs

CESN (California Emergency Services Net 10:00 Hours, Primary frequency 7192 kHz, Backup frequency - 7230 kHz All free to listen, check-in by membership only.

SMRA Tech Net 146.880 MHz (-) / 127.3 PL (SMRA Red Mt) 20:00 Hrs

SBARC Swap Net 146.790 MHz (-) / 131.8 Hz PL K872 20:00 Hrs

Teamtalk Voice Net.20:00 Hrs k6pvr-svr.local.mesh server http://www.pvarc.club/mesh/mesh-applications/

Thursday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.25 MHz MTWThF 08:30 Hrs

So Cal 6 meter net. 51.940 MHz - pl 82.5. 19:00-20:00 Hrs

Southern Calif 6M SSB Technical Roundtable Net 20:00 Hrs on 50.2 MHz USB SSB

SBARC / K6TZ Technical Mentoring Net 20:00-21:00 Hrs 146.790 MHz (-) / 131.8 Hz PL and 224.08 MHz (-) 131.8 PL (linked)

Friday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.250 MHz MTWThF 08:30 Hrs

Saturday

Military Radio Collector Net 18:00 Hrs 3985 kHz AM vavw.mrcuwestord/mrca-radio-nets/

Sunday

ARRL Southwestern Division Net 08:00 Hrs 3965 MHz. ARRL Officers check in first. All visitors welcome at end of that net

Newbie Net 19:00-19:30 Hrs Bozo Repeater 147.885 MHz (-) PL127.3

Rabbit Net 19:00 Hrs Linked Rabbit repeater.

ARRL Santa Barbara Section John Kitchens NS6X

(Will be repeated until John contacts me that the positions are filled)

Hello all,

I have been trying to fill Section volunteer positions for a while. I am giving another push. I am pleased to let you know that our Section Emergency Coordinator is Richard Tate, KQ6NO from Santa Paula. (Congratulations and thanks to Rick for taking on this position in addition to his ACS/ARES assignment as Assistant ACS Radio Officer/ARES Assistant DEC.

Richard will be contacting you to see how each county operates emergency communications, and to see how the ARES SEC role will be able to assist and coordinate between the 3 counties in the Section. I have been the SEC for about 3 years. I should not be both the Section Manager and SEC. We need to have more focus on each position.

I am looking forward to spending more time on being SM. One of the tasks that I have passed off to Rick, among others, is the EmComm and volunteer hours reporting to ARRL headquarters.

Additionally, Andy Ludlum, K6AGL, member of the Conejo Valley Amateur Radio Club, has been appointed as the first Assistant Section Manager in the Santa Barbara Section. The SM position will be a club liaison for me, the Section Manager, to have a person in the know hopefully at each club. I really have little to no secret ARRL information, but when I am aware of issues, successes, opportunities, we can work together to accomplish our goals.

There are many volunteer positions to fill in the Section. The one that I am focusing on right now is the Section Traffic Manager. The STM will manage the Section's involvement in the National Traffic System. We need to work on and develop the NTS in the Section. There is quite a bit of work to do, but there are several dedicated volunteers in the Section, working within the NTS, who will make the system work.

Let me know if you would like to volunteer for the STM position, or any volunteer position. I'll be talking about specific positions in the coming months.

Santa Barbara Section Volunteers

Right now, we have 2 Section email systems. That is partly why we need volunteers to help rectify (electrical term) this issue. To make sure that everyone is getting the information, I will be sending emails through both systems. This email is for hams registered at the ARRL website as being in the Santa Barbara Section.

So, what do you get for being a volunteer? A special name/callsign badge and a certificate. And the satisfaction of helping ham radio in many aspects. I am still looking for volunteers to fill the remaining Section Leadership positions. The jobs are:

Assistant Section Manager (essentially a club liaison - one from each club, preferably)

Local Government Liaison (a person to be the contact for the local government, could be a city or county - to understand the local issues. Not to be a political operative or community organizer, but to be a positive contact for the local government, answer the government leader’s questions, be aware of whom the players are)

ARRL Santa Barbara Section (Continued)

Traffic manager - (the traffic system in the Section runs well, but needs a bit of coordination throughout the Section, and most importantly, finding new bodies to join the traffic system. Maybe the various Morse groups could provide people to be trained as traffic messengers).
Public Information Coordinators - (We have an excellent PIO, but each club should have someone who handles public information contacts, such as social media, print media, video (television, cable, YouTube etc.) media and more.)
Section Youth Coordinator (Doesn't need to be a teenager, but it could be. Someone who will focus ham radio toward the youth - schools, makers etc. Someone to help clubs do so, if they are so inclined.)
Club Coordinator (help get clubs active, motivated and working in the general support for ham radio. Some other type of groups will bring in a speaker to talk at all clubs for a reduced cost.
We would like to have a Santa Barbara Section conference again. Need someone to help make it happen - just a small conference/Hamfest - look at the Yuma Arizona Hamfest.
Technical Specialist (working with the Technical Coordinator, maybe have experts "Elmers" for various aspects and specialties. How to get on FT8 (why won't my computer key my KX3; I can decode signals, just not key the radio), contesting, setting up a station, RFI solutions, use of chokes and why, homebrewing, how to solder - or crimping - how to install a coax connector, what is DMR/etc. and how to make my radio work - what is a hotspot, and more. We could use a dozen or more people.
Webmaster (I am not a web guy. Who is, or what groups of people are, who could help us? We need a Section website)
Special Event coordinator (We have a small Section budget that can cover some costs such as website hosting). The following clubs are ARRL affiliated:
Conejo Valley ARC (Andy Ludlum, K6AGL Assistant Section Manager)
Ventura County ARC (K6MEP)
Ventura County ARS
Simi Settlers ARC
Santa Barbara ARC
UC Santa Barbara ARC
Paso Robles ARC
Cal Poly San Luis Obispo ARC
Satellite ARC
And hopefully Pleasant Valley ARC soon.

ARRL Santa Barbara Section (Continued)

There are more groups and clubs, which should not be ignored, but these are the "affiliated" clubs. The Section includes the counties of San Luis Obispo, Santa Barbara and Ventura. More schools, middle, high, community college and college/university should have a radio club.

Let me know if you would like to help, or get more information. Get one of those pretty, special color ARRL badges. No membership is required.
SB QST @ ARL $ARLB016
ARLB016 Amateurs' Email Addresses Will Continue to Be Kept Private, FCC Says

ARRL Executive Committee to Meet on July 7

The next meeting of the ARRL Board of Directors' Executive Committee meeting is July 7 at 11 AM EDT. The ARRL Board of Directors will meet July 16 – 17 for its second meeting of the year. The agenda for the full Board meeting is available on the ARRL website.
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72/73

John Kitchens, NS6X
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Somis, CA 93066
805.216.2569
NS6X@ARRL.org
NS6X@ARRL.net

Meeting Location Maps

K6MEP Membership Application/Renewal. Please pay your 2021 Dues. Please mail the completed form (see below) or the one on K6MEP.org. Dues are now $5 (Jul-Sep).

To join the Ventura County Amateur Radio Club, Inc. (also known as VCARC or K6MEP), complete and send form, along with $20 annual dues, to VCARC P.O. Box 2103 Oxnard CA 93034-2103

Checks can be written to either Ventura County Amateur Radio Club, Inc. or VCARC

Pro-rate dues as follows based on our calendar year ending October 31 (Oct-Dec = $20, Jan-Mar = $15, Apr-Jun=$10, Jul-Sep=$5). Existing members should renew every October =$20.

Name (Last, First)_____Call sign_____License Type_____

Address Street_____City, State Zip_____

Email_____Telephone_____Date of Application_____

Y/N for the following: New Member _____ Renewing _____ Member of ARRL?_____

I'd Like To See/Do....

TOPIC	YOUR INTEREST LEVEL			COMMENTS
	Meh	Ok	Yayy!	
All about coax cables				
Amateur Radio Satellites				
Antenna construction project				
Antenna ordinances				
ARES, ACS, CERT, RACES, MARS, SkyWarn				
Assembling a Go-Box				
Assembling a test lab				
Best bands to get on & what to expect				
Construction projects, like_____				
Ferrites, and demonstrations of.				
Field Day – Strategies, Tactics and Techniques				
FRS & GMRS - what are those?				
Ham Radio projects for Arduinos & Raspberry Pi				
VHF Digital Modes: D-Star, Packet, APRS				
HF Digital Modes: RTTY,JT65,WSPR,PSK31,PACTOR,FT8				
How to use an oscilloscope				
Local Repeaters You Can Hit				
MESH				
Moonbounce				
More social events, picnics, etc.				
NVIS for regional HF communications				
QSLs, QSL cards, ARRL LOTW, eQSL				
SDR - Software Defined Radios				
Compact HF antennas				
Soldering				
Sulphur Mountain Repeater Association				
SWR, Meaning and Measurement.				
Troubleshooting				
Vacuum Tubes				
VHF and Above Contesting				
What's DTMF, CTCSS, and PL?				
Power amplifiers and receiver preamplifiers				
Assembling Emergency Supplies				
The Love of Morse Code. Keys, Paddles & Bugs.				
The HF Reverse Beacon Network				
ARRL American Radio Relay League topics				

I can give a presentation on:	

ARRL News(all photos and icons from ARRL.org or other specified sources)

Jon Jones, NØJK, n0jk@arrl.org

The World Above 50 MHz

Solar Cycle 25 Activity Dampens HF Public Service Nets

Consider the following scenario: A major spring storm system with multiple supercell thunderstorms causes damage across the Midwest and southeast states. Multiple F4 and F5 tornados take out public service and cell towers. Amateur radio would be vital to disaster response, but with high solar activity, D-layer absorption, and active geomagnetic conditions, the HF nets would have difficulty operating. Public officials would find it difficult to get up-to-date disaster updates and information. Here are a few options that are useful in an emergency or disaster scenario.

Reliable VHF/UHF and *WSJT-X*

Rick Palm, K1CE, mentioned *WSJT-X* in his "Public Service" column in the April 2021 issue of *QST*. He discussed "poor conditions on the low bands" due to increased solar activity. People typically think of local 2-meter FM nets for VHF disaster operations, but longer distances are possible on the VHF/UHF bands, even in a disaster zone, and *WSJT-X* communications are durable and reliable.

For *WSJT-X*, the usual information communicated are call signs, reports, and confirmations of reports, but you can send other short messages. The information payload is very small with FT8. A way to increase it is to use "JS8." JS8 (Jordan Sherer-designed MSK-8) is derived from FT8. It applies FT8-style message encoding and modulation to longer messages, allowing senders to transmit across adjacent time slots instead of the usual 15-second alternating transmit-receive sequence. The 75-bit JS8 messages cannot be decoded by 77-bit FT8 software. It layers on a messaging and network protocol for weak-signal communication with a keyboard-to-keyboard interface. It can communicate at a rate of about 5 words per minute.

Meteor Scatter MSK144

Meteors enter the Earth's atmosphere daily throughout the year. Meteor scatter mode allows communication over paths from 400 – 900 miles. Meteor scatter is not disrupted by solar flares and geomagnetic activity. Two 50 MHz stations, each with 100 W and a three-element Yagi, can complete MSK144 contacts routinely. Information could be passed using MSK144. The information throughput would be slow, but critical information could be sent out of a disaster area to officials and back to onsite personnel.

Tropo-Scatter FT8, JS8, Q65A

Tropospheric refraction is not directly affected by a solar storm. Tropo-scatter contacts on 144 and 432 MHz are made on a regular basis over several-hundred-mile paths. Using FT8, JS8, or Q65A, a station running 100 W and a small Yagi could communicate critical information out of a disaster zone over several hundred miles. JS8 may potentially be able to communicate more information than FT8 via weak-signal text chat mode with keyboard-to-keyboard messaging on tropo-scatter paths. Perhaps multiple stations in the disaster zone could use *WSJT-X* modes to facilitate communication. As geomagnetic activity subsides, HF nets may be able to operate on a limited basis. *WSJT-X* and the VHF and UHF bands provided a critical communications channel at the early stages of disaster recovery. Establishing *WSJT-X* VHF/UHF nets with communication protocols should be considered prior to a disaster.

Solar Cycle 25 Sparks 6-Meter Opening

On the afternoon of April 20, 2021, a strong, long-lasting 6-meter opening took place from many parts of North America to South America (see Figure 1). Sporadic E was present across the southeast states. This set up links for suitably located stations to be able to work South America. The DX came in around 1700Z and went on to almost 2200Z.

KE8FD (EN80) worked HK4GSO at 1713Z, followed by CX and LU stations to 2000Z. Gary, KMØT (EM13), worked eight stations in Argentina and

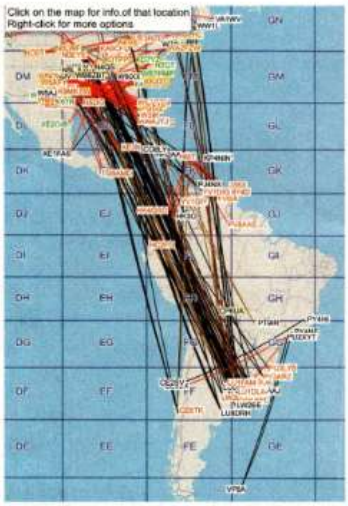


Figure 1 — A map of the 6-meter opening from North America to South America, which took place on April 20, 2021. [Graphic courtesy of **www.dxmaps.com**]

ARRL News (Continued)

Uruguay on FT8. He picked up to two LU stations on SSB with 55 signals. Larry, NØLL, heard eight South American stations while portable in Nebraska. I (NØJK) operated during the opening from 2010 – 2030Z, with a ¼-wave whip on the car and an old MFJ-9406 radio. I decoded six different stations in Uruguay and several in Chile.

From 8,846 kilometers away, CE6CGX (FF31) peaked to +6 dB, and at 2025Z, he gave my 10 W a –6 dB report. WAØFMY (EN11) worked South America and Walt, AJ6T (EM66), found LU9DO (GF05) at 2011Z. From Minnesota, WØVTT (EN33) said he "had a pipeline to Chile," with CE6TK up to +15 dB. He runs 1 kW to a seven-element Yagi at 132 feet. The solar flux was up at 86. Sporadic E played a major role linking to the afternoon trans-equatorial propagation. In addition to CE, CX, and LU, VP8 stations were spotted into the Midwest.

On the Bands

50 MHz. K3FR (FM18) worked rare grid KV4HV (EL94) on April 13 on E_s. On April 19, Jim, K5VVV (EM10),

Figure 2 — Larry Lambert's, NØLL, portable 6-meter MSK144 operation. Setups like Larry's can provide amateur radio communications in a natural disaster. [Larry Lambert, NØLL, photo]

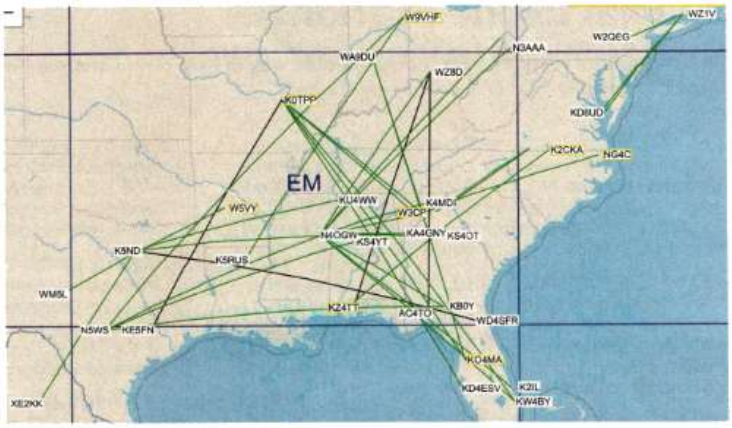


Figure 3 — A map of the April 27, 2021 tropospheric opening, showing the 2-meter paths that were present. [Graphic courtesy of **www.dxmaps.com**]

worked XE2TT (DL44). Jay, N1AV (DM43), worked double-hop sporadic E to W1 and W2. These E_s openings set up a remarkable opening to the South Pacific. NZ3M (FM18) worked Tony, 3D2AG (RH91). 3D2AG was heard by K1TEO, K3EEI, W3LL, and K3SWZ. 3D2AG copied W8GNM, W3LL, AB3AH, and NF3R.

Larry, NØLL, was in EN02 for the Lyrid meteor shower. He made 21 contacts in 5 hours on MSK144 (see Figure 2). WØVTT picked up AG6EE/p (DN42/52) and AA5PR (DM55). K3FR worked ZF1EJ (EK99) on April 20. On April 21, Chip, K7JA (DM03), logged 3D2AG at 2349Z and 3D2TS, who uses "just a wire antenna" at 0033Z on April 22. Bob, N6RW, said he decoded 3D2AG working WD5COV "out of nowhere." His signal "jumped up to +4 dB," and he worked 3D2AG at 0210Z. He also decoded 3D2TS. N1AV also worked 3D2AG on April 22, and he said he had a "monster signal."

On May 2, Gary, K9RX (EM84), worked Bert, KH6HI (BL01), for his 50th state on 6 meters. Gary used his EME array of four seven-element Yagis for the contact.

144 MHz. Tropo occurred on April 13 between Texas and Florida. KO4MA (EL88) worked N5TJD (EM10) on FT8 at 0034Z. AC4TO (EM70) chatted with KE5JXC (EL39) on 144.200 MHz SSB at 0118Z. During the Lyrid meteor shower, Mike, KMØT (EM13), worked W6TCP (CM97) with MSK144 at 1148Z. The contact took an hour. A widespread tropo opening took place on April 27 across the lower Midwest and southeast states (see Figure 3). KØTPP (EM48) worked down to KO4MA (EL88) in Florida on FT8. KFØM (EM17) worked south Texas and was heard by XE2OR (DL98).

222 MHz. Sam, K5SW (EM25), made five contacts on SSB in the 222 MHz Sprint on April 13, and his best DX contact was with K5IM (EM20) at 592 kilometers.

2304 MHz. Buddy, WB4OMG (EL98), worked Al, W5LUA (EM13), on 2304.174 MHz FT8 during the April 27 tropo at 1151Z. Buddy runs 30 W to a 76-element loop Yagi up 100 feet.

Here and There

Gordon Pettengill, W1OUN, became a Silent Key on May 9, 2021, at the age of 95. Dr. Pettengill was Director of the Arecibo Observatory and was instrumental in arranging for amateur radio operators to use the big dish for EME, which he used to radar map the surface of Venus and Mercury.

ARRL News (Continued)

FCC Releases Further Notice in Satellite Launch Proceeding Involving 70 and 5 Centimeters

The FCC is soliciting a second round of comments on whether to authorize commercial space entities to obtain licenses for frequencies used exclusively during space launch activities. The proposals include parts of the 70-centimeter (420 – 430 MHz) and 5-centimeter (5650 – 5925 MHz) bands. The federal government is allocated this spectrum on a primary basis and routinely uses it during space launches, but commercial space companies must obtain short-term Special Temporary Authority (STA) authorizations from the FCC to use it for the same purpose.

The last decade has seen a dramatic increase in commercial space launches. In March, the Federal Aviation Administration (FAA) streamlined its commercial space launch and reentry licensing regulations. In April, the FCC adopted some of its proposals from 2013 and solicited additional comment in a Further Notice on the above proposals in ET Docket No. 13-115, "Allocation of Spectrum for Non-Federal Space Launch Operations." The proposals would allow private commercial space companies to obtain regular FCC licenses instead of launch-specific STAs in a number of bands, including 420 – 430 MHz and 5650 – 5925 MHz. The federal government, including the US Department of Defense, is the primary user of both bands. Amateur operations are allocated on a secondary basis. The FCC again seeks comment on whether it should give commercial space launch entities access to the same limited space launch uses already employed by the federal government on this spectrum.

Primary federal users heavily employ the 70-centimeter segment for radiolocation applications. Frequencies in the 420 – 430 MHz segment also can be used during space launches to send a flight self-destruct signal if a launch goes off course and poses danger to a populated area. The Commission's 2013 proposal, repeated in 2021, would permit use restricted to flight termination during launches by commercial space launch companies. The users also make use of 5650 – 5925 MHz for radiolocation applications, with channels used during launches for radar tracking. The Commission proposes to permit use by commercial entities similarly limited to use for radar tracking of launch vehicles.

The Commission notes in its Further Notice of Proposed Rulemaking that since 2013, commercial entities have become established in space launch operations that were formerly the province of NASA. "To support these commercial space ventures, entities such as the New Mexico Spaceport Authority, the Virginia Commercial Space Flight Authority, and the Houston Airport System have established non-Federal spaceports," the FCC said, noting that five bands — including 420 – 430 MHz and 5650 – 5925 MHz — are commonly used for communication with and tracking of launch vehicles.

The Commission noted, however, that several commercial space launch providers indicated that they do not use either band for their operations. The FCC said that it has not granted an STA for the 420 – 430 MHz band related to space launches, and in the recent past only one operator obtained STAs to use the 5650-5925 MHz band for a small number of launches.

The Commission concluded that, "Given the limited current use of these bands during space launches [by commercial space entities], we are not convinced that there is need for new allocations for either band."

Comments are due on or before July 12, 2021; reply comments are due on or before August 9, 2021.

ARRL News (Continued)

FCC Reaffirms Nearly $3 Million Fine for Marketing Unauthorized Drone Transmitters

In a Memorandum Opinion and Order (MO&O) released June 17, the FCC denied a Petition for Reconsideration filed by HobbyKing of a $2,861,128 fine for marketing noncompliant RF equipment and for failing to respond to FCC orders in its investigation of the company's practices. In the same step, the FCC enforced its equipment marketing rules. The fine resulted from an FCC investigation initiated by ARRL's January 2017 complaint that the HobbyKing equipment was "blatantly illegal at multiple levels."

"The Forfeiture Order is the final chapter of a story that started with a report to the ARRL Board by the EMC Committee in 2017, as a result of the discovery that aerial drone TV transmitting equipment was being imported and marketed without proper FCC authorization under FCC Part 15 rules," said ARRL Electromagnetic Compatibility Committee Chair Kermit Carlson, W9XA.

As spelled out in ARRL's 2017 complaint, the ARRL Laboratory had documented that the operating frequencies of these drone TV transmitters near the 1.3 GHz amateur band were dip-switch selectable for frequencies internationally assigned for use by Aeronautical Navigation, GPS, GLONASS L1, ATC Mode "S," as well as to both the interrogation and reply frequencies used for Air Traffic Control Air-Route Surveillance "transponder" radar systems. "Transmissions from these drone TV transmitters would have caused harmful interference to these essential Navigation and ATC Radar systems, presenting a real and dangerous threat to the safety of flight," Carlson said.

ARRL's complaint noted that given the channel configuration, these units would not have a legitimate amateur radio use, and that the marketing was directed at drone enthusiasts and not to licensed radio amateurs. "ARRL Laboratory tests did prove that only one of the seven available channels was within the 1.3 GHz amateur band," Carlson said.

"This is another example of ARRL not only affirmatively acting to protect our Members' interests, but also acting to protect the safety and security of vital services and the general public," Carlson said.

HobbyKing had denied that it was marketing its drone transmitters to US customers, but as the ARRL January 2017 complaint pointed out, ARRL Laboratory Manager Ed Hare, W1RFI, was able to purchase two drone transmitters from HobbyKing and have them shipped to a US address for testing in the Lab.

Hare and ARRL Lab staffers Mike Gruber, W1MG, and Bob Allison, WB1GCM, tested the units. Carlson, as well as the Electromagnetic Compatibility Committee he chairs, were credited in the complaint for calling attention to the issue and prompting ARRL's action.

"The FCC noted that Amateur Radio equipment used to telecommand model craft are limited to 1 W (1,000 mW), but three transmitters included in the FCC investigation operated at significantly higher power levels of 1,500 mW and 2,000 mW," ARRL said.

HobbyKing had told the FCC that it had no notice of the Commission's authorization requirements; that the Fifth Amendment relieved HobbyKing of its duty to respond; that the forfeiture amount was inappropriate because its parent company, Indubitably, Inc., lacked the ability to pay to the Forfeiture

ARRL News (Continued)

Order; and that the Commission was time-barred from taking action against ABC Fulfillment Services LLC because it was not part of HobbyKing's business.

"Upon review of HobbyKing's Petition for Reconsideration and the entire record, we find no basis for reconsideration because the petition fails to present new information warranting reconsideration," the FCC said in the MO&O. "Rather, HobbyKing again raises the very same arguments already considered and rejected in the Forfeiture Order."

The fine reaffirms the monetary penalty sought in a June 2018 FCC Notice of Apparent Liability (NAL). The FCC said it found that dozens of devices marketed by the company transmitted in unauthorized radio frequency bands and, in some cases, operated at excessive power levels.

HobbyKing is the trade name of two US-based companies that include ABC Fulfillment Services LLC and Indubitably, Inc. HobbyKing has a New York office and customer service operations in the US, the FCC noted.

In its earlier Forfeiture Order, the FCC said it had made clear that "[d]evices used in the Amateur Radio Service do not require authorization prior to being imported into the United States, but "if such equipment can operate in amateur and non-amateur frequencies, it must be certified prior to marketing and operation." The FCC investigation found that 65 models of devices marketed by HobbyKing did not have the required FCC certification.

Responding to the FCC, HobbyKing claimed to have ceased marketing the 65 models the FCC identified, but promised only to make "best efforts" not to market other noncompliant RF devices.

"HobbyKing has a continuing obligation to market only radio frequency equipment that is properly authorized," the FCC said. "We therefore remind HobbyKing that continuing to market noncompliant radio frequency devices could result in further significant forfeitures."

ARRL News (Continued)

3Y0J Bouvet Island DXpedition Team Hasn't Given Up the Ship

The Daily DX has reported that the 3Y0J DXpedition team is still hoping to have a go at the island in 2023. The DXpedition team had planned to travel to Bouvet via the RV Braveheart, owned by Nigel Jolly, K6NRJ.

"Since the cancellation of 3Y0J, we have been working closely with Nigel Jolly to form a new plan, with a new owner of Braveheart and a revised payment plan that enables Nigel Jolly to continue managing Braveheart and will keep it available for DXpeditions for years to come," said the announcement from DXpedition co-leader Paul Ewing, N6PSE. "We are working out the details of this plan and hope to have some very positive news very soon. We have not given up!"

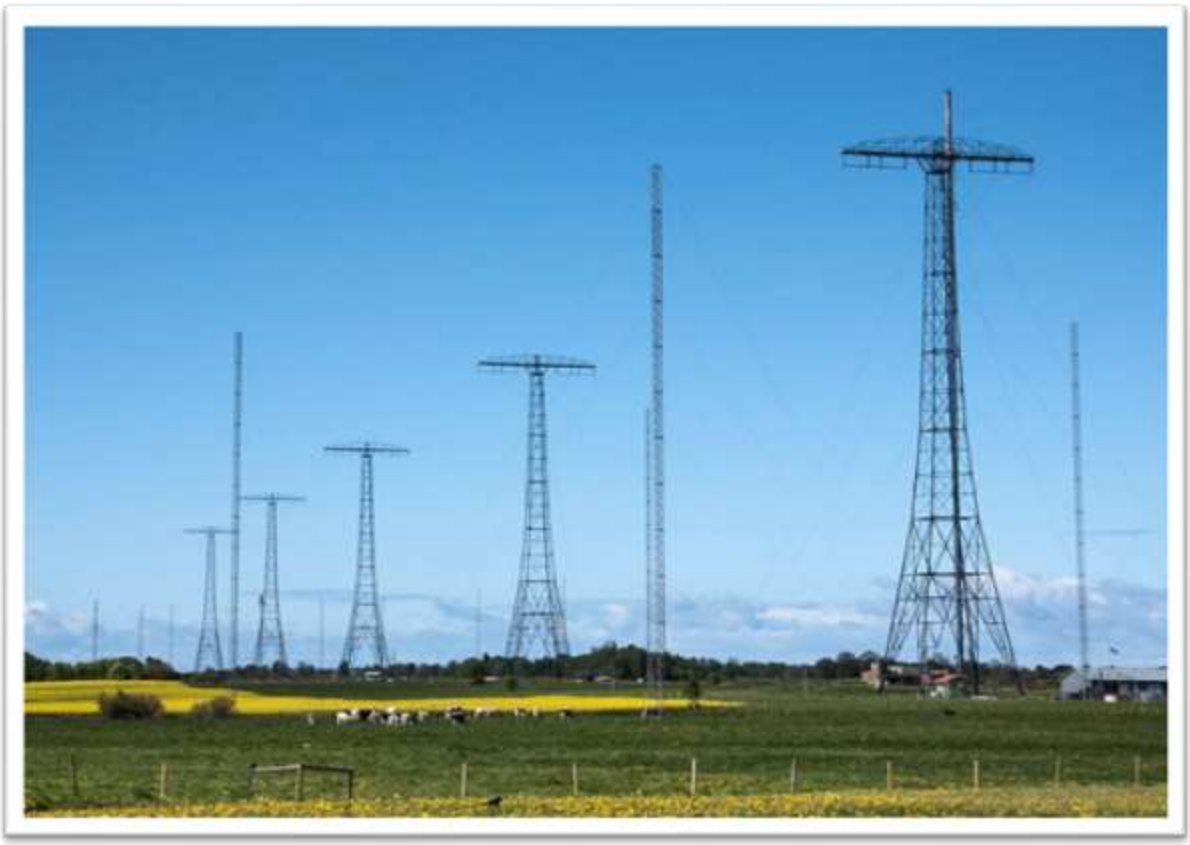
The Intrepid-DX Group announced earlier this month that it has canceled its long-anticipated DXpedition to Bouvet. Jolly told the DXpedition that the Braveheart was being sold and he was canceling its contract for the 3Y0J voyage.

ARRL News (Continued)

SAQ in Sweden to Conduct Annual Alexanderson Day Transmission

SAQ, the call sign of the vintage Alexanderson alternator transmitter in Grimeton, Sweden, will conduct its annual Alexanderson Day transmission on Sunday, July 4. The CW transmission will be on 17.2 kHz, CW. The Alexanderson Grimeton Association is planning for two broadcasts from the circa 1924 Alexanderson alternator.

Startup and tuning for the first SAQ transmission will take place at 0830 UTC, with a message transmission to follow at 0900 UTC. Startup and tuning for the second SAQ transmission will take place at 1130 UTC, with a message transmission to follow at 1200 UTC. Both events will be livestreamed on the Alexander SAQ Grimeton Association YouTube channel.



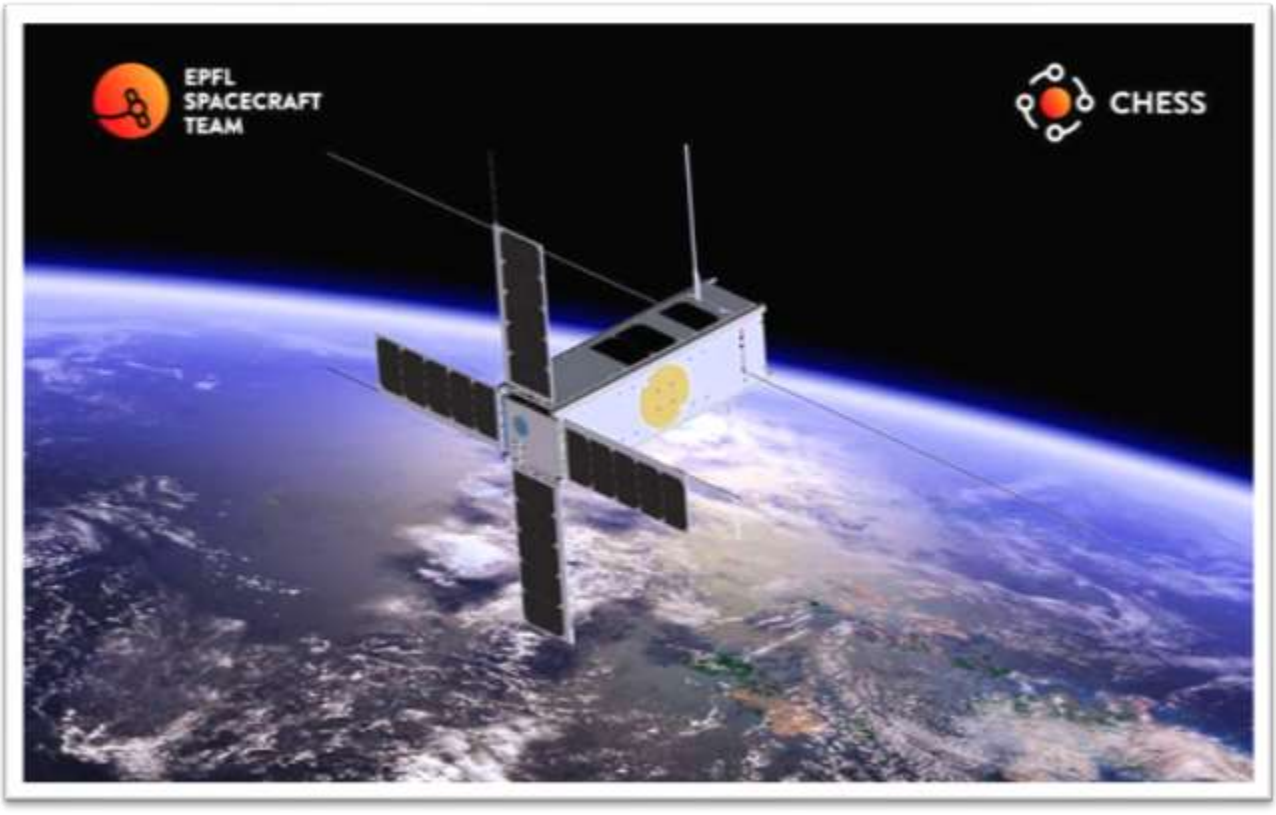
ARRL News (Continued)

CHESS CubeSats Will Not Carry Amateur Radio Payloads

It was announced in January that two CHESS CubeSats set for launch in 2022 would carry amateur radio linear transponders. The project sponsors announced on June 10, however, that neither CHESS satellite would include an amateur radio payload.

CHESS project management, citing funding constraints, had to move the project toward a purely scientific program using a commercial CubeSat platform, which has less space for the planned ham radio transponders. CHESS project management also will not use frequencies allocated to the Amateur Satellite Service, but will use Earth exploration or experimental UHF and X-band frequencies.

“The ham community, which assured the funding of the transponder, is very disappointed by this decision but must accept it,” the project team said in a news release. “Such projects always carry risks of one partner changing its mind. That is what happened here. Many thanks to all who have actively supported the transponder project, especially the AMSAT-UK and AMSAT-NL team.”



ARRL News (Continued)

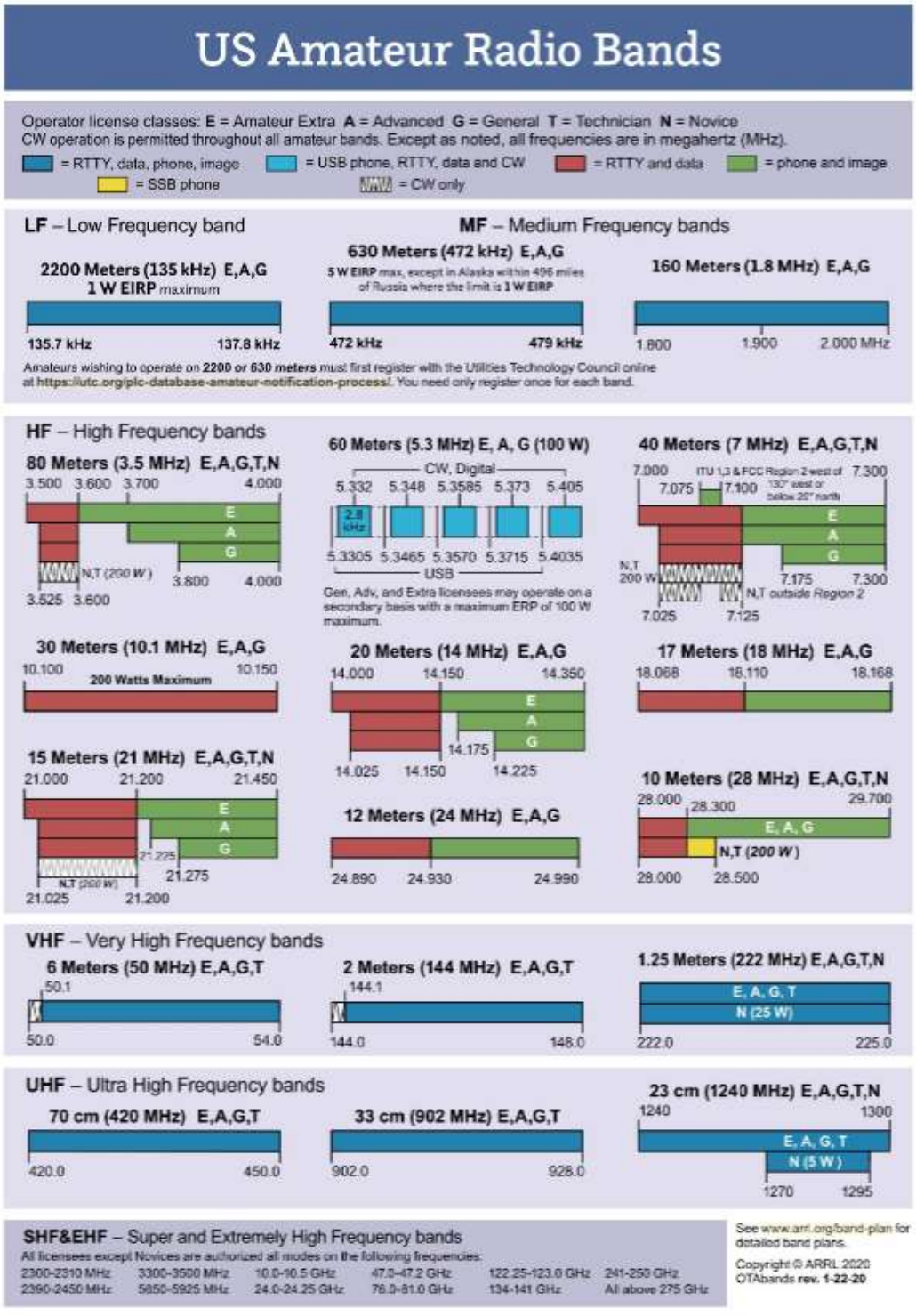
ARRL Email Asking Life Members to Verify their Mailing Address is Legitimate

In an effort to keep member records up to date, ARRL emailed Life Members on June 16, asking them to verify their mailing address. Several recipients of the email have called asking if the email was legitimate and from ARRL.

Be assured that it is legitimate and was sent from ARRL.

Thank you to all those who responded. If you need to update your address information, call (860) 594-0200, email membership@arrl.org, or respond to the email you received. You may need to cut and paste the web address into your browser.

US Amateur Radio Bands



W1AW Schedule

W1AW Schedule

PAC	MTN	CENT	EAST	UTC	MON	TUE	WED	THU	FRI
6 AM	7 AM	8 AM	9 AM	1400		FAST CODE	SLOW CODE	FAST CODE	SLOW CODE
7 AM-1 PM	8 AM-2 PM	9 AM-3 PM	10 AM-4 PM	1500-1700 1800-2045	VISITING OPERATOR TIME (12 PM-1 PM CLOSED FOR LUNCH)				
1 PM	2 PM	3 PM	4 PM	2100	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE
2 PM	3 PM	4 PM	5 PM	2200	CODE BULLETIN				
3 PM	4 PM	5 PM	6 PM	2300	DIGITAL BULLETIN				
4 PM	5 PM	6 PM	7 PM	0000	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE
5 PM	6 PM	7 PM	8 PM	0100	CODE BULLETIN				
6 PM	7 PM	8 PM	9 PM	0200	DIGITAL BULLETIN				
6:45 PM	7:45 PM	8:45 PM	9:45 PM	0245	VOICE BULLETIN				
7 PM	8 PM	9 PM	10 PM	0300	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE
8 PM	9 PM	10 PM	11 PM	0400	CODE BULLETIN				

W1AW's schedule is at the same local time throughout the year. From the second Sunday in March to the first Sunday in November, UTC = Eastern US time + 4 hours. For the rest of the year, UTC = Eastern US time + 5 hours.

♦ Morse code transmissions: Frequencies are 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350, and 147.555 MHz.

Slow Code = practice sent at 5, 7½, 10, 13, and 15 WPM.

Fast Code = practice sent at 35, 30, 25, 20, 15, 13, and 10 WPM.

Code bulletins are sent at 18 WPM.

For more information, visit us at
www.arrl.org/w1aw

♦ W1AW Qualifying Runs are sent on the same frequencies as the Morse code transmissions. West Coast qualifying runs are transmitted by various West Coast stations on CW frequencies that are normally used by W1AW, in addition to 3590 kHz, at various times. Underline 1 minute of the highest speed you copied, certify that your copy was made without aid, and send it to ARRL for grading. Please include your name, call sign (if any), and complete mailing address. Fees: $10 for a certificate, $7.50 for endorsements.

♦ Digital transmissions: Frequencies are 3.5975, 7.095, 14.095, 18.1025, 21.095, 28.095, 50.350, and 147.555 MHz.

Bulletins are sent using 45.45-baud Baudot, PSK31 in BPSK mode, and MFSK16 on a daily revolving schedule.

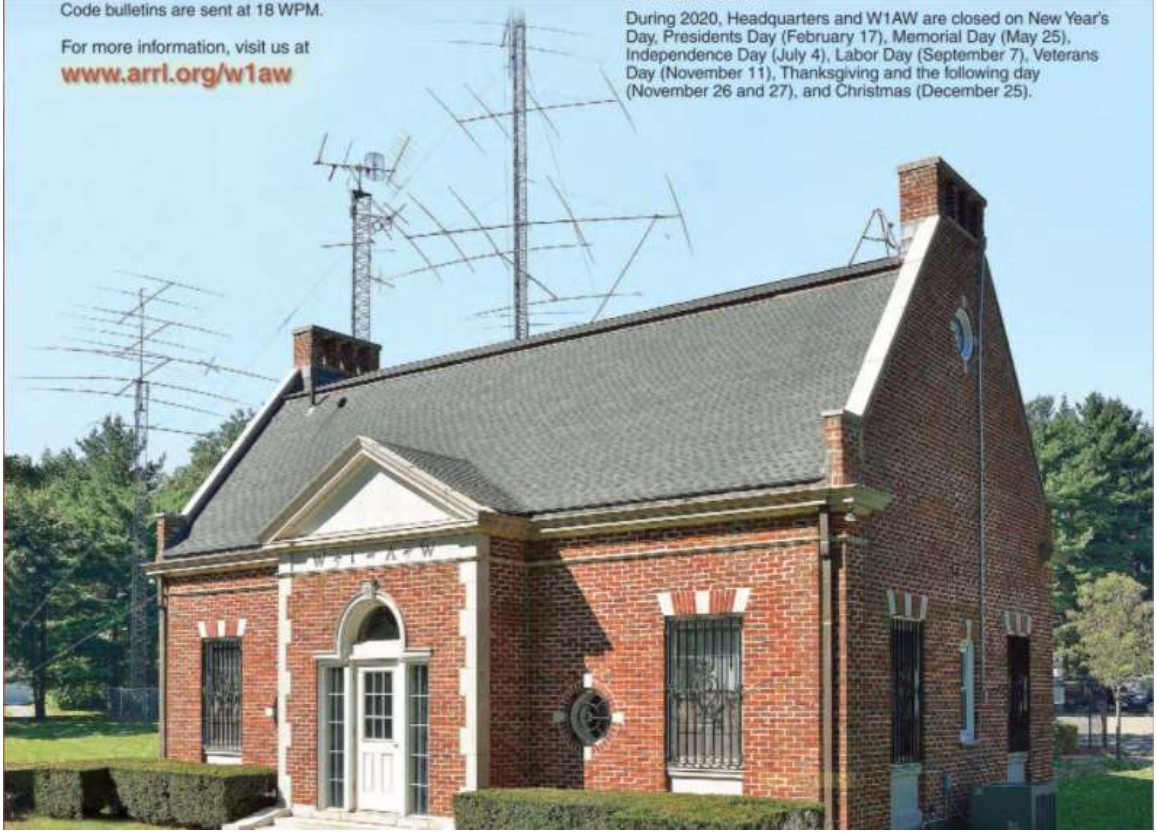
Keplerian elements for many amateur satellites will be sent on the regular digital frequencies on Tuesdays and Fridays at 6:30 PM Eastern time using Baudot and PSK31.

♦ Voice transmissions: Frequencies are 1.855, 3.99, 7.29, 14.29, 18.16, 21.39, 28.59, 50.350, and 147.555 MHz. Voice transmissions on 7.290 MHz are in AM double sideband, full carrier.

♦ Notes: On Fridays, UTC, a DX bulletin replaces the regular bulletins. W1AW is open to visitors 10 AM to noon and 1 PM to 3:45 PM Monday through Friday. FCC-licensed amateurs may operate the station during that time. Be sure to bring your current FCC amateur license or a photocopy. In a communication emergency, monitor W1AW for special bulletins as follows: voice on the hour, teleprinter at 15 minutes past the hour, and CW on the half hour.

W1AW code practice and CW/digital/phone bulletin transmission audio is also available real-time via the *EchoLink Conference Server* W1AWBDCT. The conference server runs concurrently with the regularly scheduled station transmissions. The W1AW Qualifying Run texts can also be copied via the EchoLink Conference Server.

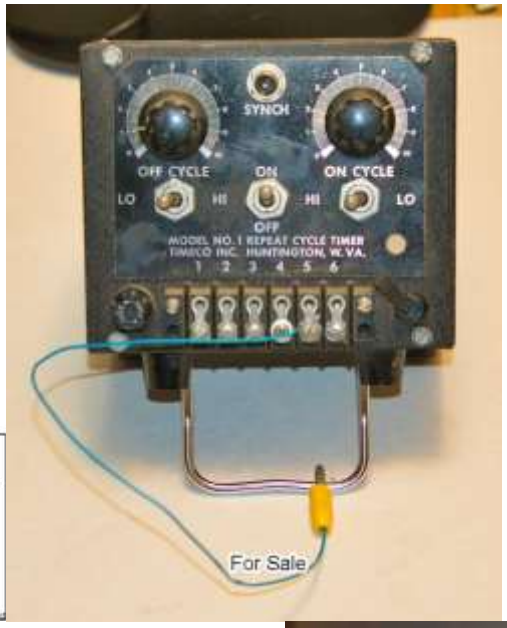
During 2020, Headquarters and W1AW are closed on New Year's Day, Presidents Day (February 17), Memorial Day (May 25), Independence Day (July 4), Labor Day (September 7), Veterans Day (November 11), Thanksgiving and the following day (November 26 and 27), and Christmas (December 25).

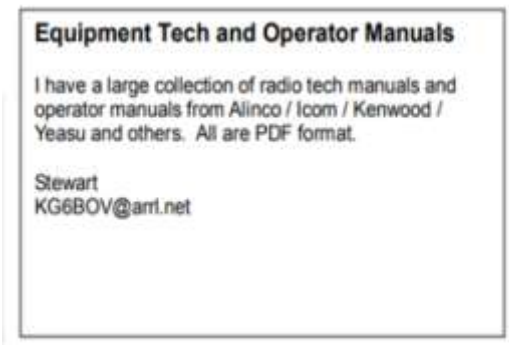


Wanted and For Sale Ads

Denney N6HV: One roll, 250 feet 14/2 clear speaker wire $30.00, [new, still in wrapper, old stock]. Various rolls of wire, big rolls; 8 gauge, shielded single pair and other gauges, good prices. Three-quarter-inch wide, flat, heavy, copper-braid, $1.00/ft.; great for grounding.

Items Given to the Club for Donations: Multimeter, Micronta brand $5.00. HP 1706A oscilloscope, as is, $50. Various lengths of Ethernet cables, $0.25 each. Radio Shack Power Supply, 13.8 volt at 3 amps, $3.00. Swing arm desk lamp includes light bulb and other various items; $5.00 to $25.00. Kenwood TL-922A Linear Amplifier AS IS: All items as shown below: Contact Denney for price.





Wanted and For Sale Ads (Continued)

See Denney N6HV for the following items: (note: all Items have been donated to the club)

Wanted and For Sale Ads (Continued)

See Denney N6HV for the following items: (note: all Items have been donated to the club)

Want and For Sale Ads (Continued)

See Denney N6HV for the following items: (note: all Items except the IC-251A have been donated to the club)

Asking for $75 (It's an all mode 2 meter rig.)

Asking for a $150 donation

Asking for a $100 donation

Want and For Sale Ads (Continued)

See Denney N6HV for the following items: (all the items below have been donated to the club)

Asking for a $10 donation

Asking for a $35 donation

Want and For Sale Ads (Continued)

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Want and For Sale Ads (Continued)

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Want and For Sale Ads (Continued)

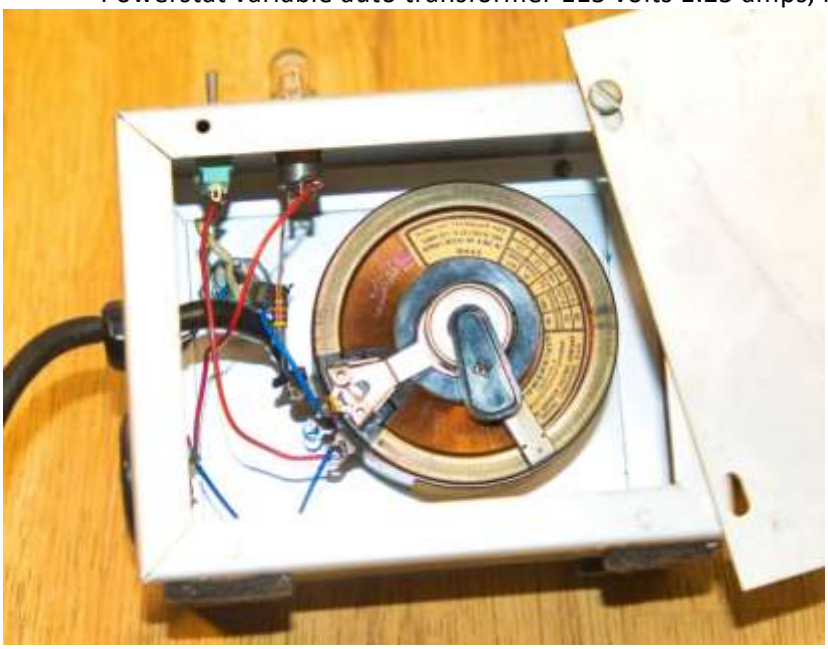
See Denney N6HV for the following items: (all the items below have been donated to the club)

Switching power supply for parts, lots of three terminal regulars, heavy aluminum base $5.00 or offer

Want and For Sale Ads (Continued)

See Denney N6HV for the following items: (all the items below have been donated to the club)

Powerstat variable auto transformer 115 volts 1.25 amps, in box, nice $5.00 or offer;



Wanted and For Sale Ads (Continued)

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Wanted and For Sale Ads (Continued)

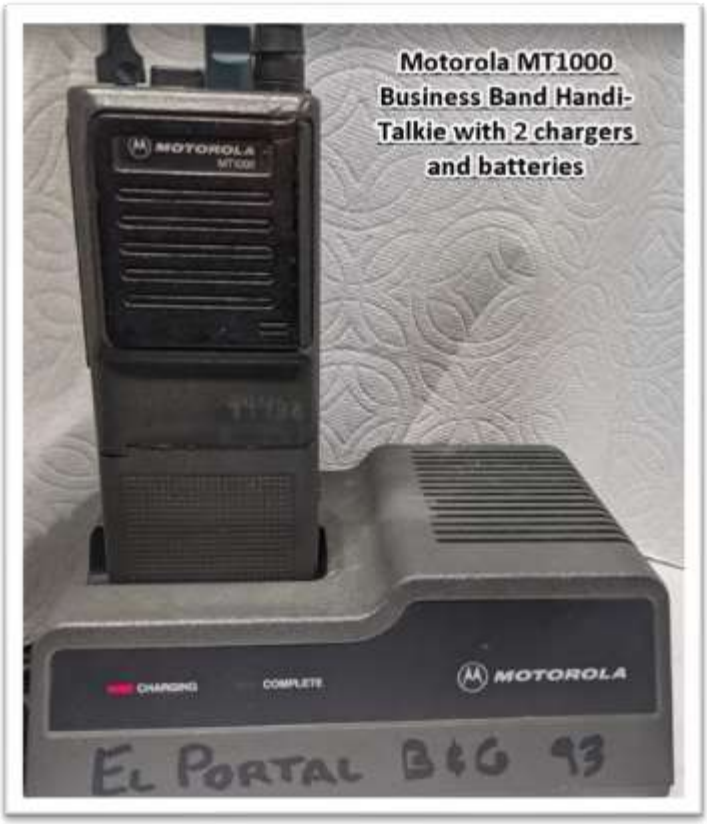
See Denney N6HV for the following items: (all the items below have been donated to the club)

Orv – W6BI – orv.beach@gmail.com

TenTec Omni VI Plus HF Transceiver 160 through 10 with 1.8 kHz, 500 and 250 Hz filters – works fine, receiver recently aligned. With power cable, TenTec microphone and original manual - $450

Wanted and For Sale Ads (Continued)

For Sale Wayne Woodhams (w.wixman@yahoo.com)



Wanted and For Sale Ads (Continued) Wayne Woodhams (w.wixman@yahoo.com)

Wanted and For Sale Ads (Continued)

Five Hammarlund SP-600 Receivers Robert KM6RSS@gmail.com