



### Meeting News:

The May 13<sup>th</sup> general membership meeting was held at the Dudley House and on Zoom. Denney N6HV discussed "Current K6MEP Field Day Preparation Activities" and provided a list of band and times for members and guests to select. He showed several photos from the 2021 Field Day. Several questions were asked by members and Denney received a round of applause.

Richard WB6AEW presented a six minute YouTube video about amateur radio's contribution to the "LAPRACC'S Baker to Vegas Challenge Cup Relay" and discussed his activities and participation at the "one mile out" spotter position. Several questions were asked by members and Richard received a round of applause.

**Our next club meeting is scheduled for June 10<sup>th</sup>.** Scheduled is Denney N6HV, one of our Field Day Committee members, who will discuss our "K6MEP Field Day Final Preparation Activities". Field Day is June 24 (setup) 25, and 26 (takedown after 11am).

Our meetings start promptly at 19:00. After the call to order, welcoming members and guests, the announcements are made. Then our committee members are asked to present their status. Following the status report is a request for any new business. A break is taken to get the presentation set up, serve refreshments and have some social time. After the presentation is complete and everyone has asked and received answers to their questions, the meeting is adjourned. Visitors are always welcome to attend our club meeting; afterwards, many of us go to Toppers for a slice of pizza and a great deal of ham radio discussions.

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## Message from the President

The Prez Sez,

### Emergency Communications is the theme of my message.

Some of you may have heard about conducting an ORT (operational readiness test). Many Hams do this type of test when they are taking their equipment and preparing to travel somewhere (e.g. Field Day) or seldom use the equipment and want to ensure that it functions (e.g. an **emergency operations center** or EOC, which contains amateur radio equipment as part of the Ventura County ACS [**Auxiliary Communications Service**]).

The Ventura County ACS, along with our ARES (Amateur Radio Emergency Service), mission is to serve the County in support of any possible communications needs in an emergency. ACS members act as emergency communications reserves to support the County in providing reliable, point-to-point voice and data communications anytime, anywhere. In addition to emergency activations, ACS is involved in promoting emergency preparedness. If you would like to know more, please contact ACS Radio Officer/ARES District Emergency Coordinator, Rob Hanson – W6RH at [ec@vccomm.org](mailto:ec@vccomm.org).



(Continued on Next Page)

Club Offices	And Keyer	Contributors
President	Robert Shank	KM6RSS
Vice-President	Clem Alberts	KM6OKZ
Secretary	Phil Cohen	WA6BUZ
Treasurer	John Gartman	W6JPG
Board Member	Dave Schmidt	AI6VX
Board Member	Mark Swaney	KD6ASL
Board Member	Burt Auerbach	KA6BJA
Program Manager	Clem Alberts	KM6OKZ
Equipment Mgr.	Denney Pistole	N6HV
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ARRL Club Rep.	Dave Schmidt	AI6VX
ACS/ARES Rep.	Burt Auerbach	KA6BJA
Monday Night Net	Open	Please volunteer
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Safety Officer	Mark Vodon	KI6PTE
PIO/Trivia	Dana Wentling	KG6WXE
Columnist	Reese West	KQ6TT
Columnist	Orv Beach	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.

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Submit material by email to [KM6RSS@gmail.com](mailto: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)

Our Ventura County ACS/ARES serves the Ventura County Sheriff's department, which is a member of California Governor's Office of Emergency Services (Cal OES). Cal OES began as the State War Council in 1943. With an increasing emphasis on emergency management, it officially became OES in 1970. In 2004, the California Legislature merged OES and the Governor's Office of Criminal Justice Planning, which was responsible for providing state and federal grant funds to local communities to prevent crime and help crime victims. In 2003, with the State increasing its focus on terrorism prevention after the attacks of 9/11, the Governor's Office of Homeland Security (OHS) was established through an Executive Order by Governor Gray Davis. In 2009, the California Legislature merged the powers, purposes, and responsibilities of the former OES with those of OHS into the newly- created California Emergency Management Agency (Cal EMA). On July 1, 2013, Governor Edmund G. Brown Jr.'s Reorganization Plan #2 eliminated Cal EMA and restored it to the Governor's Office, renaming it the California Governor's Office of Emergency Services (Cal OES), and merging it with the Office of Public Safety Communications.



Now that you have an understanding about ACS, it is helpful to know that there are several activities that help maintain the members' readiness to provide emergency communications service when they are activated or called upon by a civic agency or an event organization (e.g. Mountains to Beach Marathon (coming up on June 5<sup>th</sup>), Ventura Marathon, etc.).

### Nets:

Tuesday night net check-ins are one activity; many members check-in on the 75 meter net (3.987 LSB), the 6 meter net (52.9800 MHz with a negative offset and a PL of 82.5 Hz), the local nets (each area from 1 to 8 has a local net on various repeaters in the Ventura County), and a Ventura County net (145.200 MHz with a negative offset and a PL of 127.3). Additionally, the areas hold a simplex net on their area's simplex frequency (Areas 6 hold their net on 147.5100). Another activity is to connect to the various EOC packet networks and leave a message including name, call sign, ACS#, and if there is any traffic for the network. Additionally, checking-in with Winlink (amateur radio email) using various modes including FM, HF and Mesh is usually done from the close of the previous Tuesday's Ventura County net meeting to a few hours before the area's Tuesday night net begins. Each net has a net control operator and call signs, first names, areas, and traffic is recorded and reported during the County net. Digital check-ins are also reported during the net meeting and later reported to the County net. Special nets include the Great California ShakeOut Earthquake Drill, California's Tsunami Preparedness Week, etc. (Continued on next page)

## Message from the President (Continued)

### Public Events

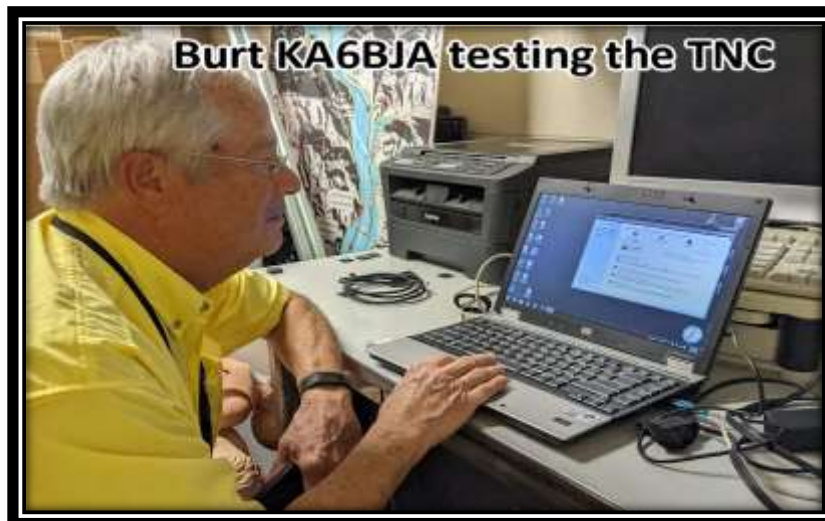
As stated above, an important people-facing service is to provide communications for civic and other organizations who have been partners in the past or have heard from other groups about the communications services available from the ACS/ARES organization. The upcoming Scandinavian Festival (June 4 and 5<sup>th</sup>) is one new event.

### District Meetings

On odd months, the members meet at a specific location and have a “business” meeting, learning about new members, agency updates, ARRL notifications, area news, and upcoming activities, such as a marathon, a city or county public event where there has been a call for assistance with communications (helping attendees find particular groups, first aid support, lost children, etc.) Due to continuing COVID and other medical concerns, the meetings are simulcast on Zoom.

### ORT

On even months, one or more members travel to each of their area’s EOCs and, once provided admittance, gain access to the emergency communications center and test the equipment. This coincides with the Tuesday net, so the operators arrive with plenty of time to show their credentials to security, access the room where the amateur radio equipment is located, conduct an inventory of the equipment and operate it to check functionality. The EOCs have a packet radio with Terminal Node Controllers (TNC) that provides a mailbox for weekly check-ins. A laptop is usually available to connect directly to the TNC and log into them. Once connected, the mailbox can be examined to ensure the equipment is operating correctly. Using a terminal program, other mailboxes at other EOCs can also be connected with and checked for proper operation.



(Continued on next page)

### Message from the President (Continued)

Below is a photo of the equipment at the Ventura County EOC. Burt and I joined Rick KQ6NO to test out the equipment and check into the net.



The photo below is our tried and true triband transceiver with RACES group in the name.



(Continued on next page)

## Message from the President (continued)



My favorite EOC location is the Ventura Police/Fire Station at 1425 Dowell Dr, Ventura, CA 93003. Although the equipment is located in a small room used to store items used in the large training room (tables, training dummies, whiteboards, etc.), I can always clear out a space for two chairs and test all of the equipment for proper operation. However, since the equipment is VHF/UHF only, I miss checking into the 75m and 6m nets. The ability to obtain access to the equipment after normal hours and to meet the watch commander and give him a summary of what ACS/ARES and the ORT is all about makes up for missing those nets.

73,  
Robert Shank KM6RSS  
President, VCARC



## Minutes of the May 8th, 2022, VCARC Board Meeting

MEETING LOCATION: Zoom

TIME: 19:00 to 20:45

Timekeeper: Dave AI6VX

MEETING CALLED TO ORDER at 19:04

Attending the meeting with various joining times were: Robert KM6RSS, Mark KD6ASL, Dave AI6VX, John W6JPG, Clem KM6OKZ, Phil WA6BUZ, Jeremy KN6JMD, Burt KA6BJA, Tim KN6JPG and Denney N6HV. Everyone who has groups.io and/or K6MEP.org access was invited to attend the meeting.

### Unfinished Business (Committee of the Whole):

- Steve Noll WA6EJO resigned as discussed at April 17<sup>th</sup> special board meeting.
- Nominations were made for and a vote to appoint a Board Member was completed. Burt Auerbach KA6BJA received the majority of votes and has been appointed.

### Minutes:

- Motion to approve minutes of the April 3rd board meeting as published in the May Keyer by Mark and Clem seconding. The vote was unanimous.
- Motion to approve minutes of the April 8<sup>th</sup> regular meeting as published in the May Keyer by Dave and Mark seconding. The vote was unanimous.
- Motion to approve minutes of the April 17<sup>th</sup> board meeting as published in the May Keyer by John and Dave seconding. The vote was unanimous.

### Officers Report: (John W6JPG)

- Treasurer: John has sent the details to the board members and a motion to approve the report was made by Mark and Dave seconding. The vote was unanimous.

### Committee Reports:

- Accounting Committee Budget Status (John W6JPG, Mark KD6ASL and Dave AI6VX). John, the board and the guests discussed the rough draft of the budget. A meeting of the committee will be scheduled to refine the budget before presentation to the board.
- Dave made a motion to pay \$50 to the Dudley House for use of the facilities for our May 7<sup>th</sup> club picnic. Clem seconded and the vote was unanimous.
- Program Manager (Clem KM6OKZ)
  - Clem tentatively will present a mag loop topic in October and will determine the November topic and speaker (short duration due to nominations and vote for new board).
- Members Health and Safety (Mark KI6PTE was not present)
- Youth Committee (Tim KN6JGB)
  - Wings STEM. Tim will send an email to all Ventura County clubs.
- Picnic Committee (Mark KD6ASL) Results Report (at least 28 attendees and a cost to the club was about \$25 due to the generous donations). (Continued on next page)

## Minutes of the May 8<sup>th</sup>, 2022, VCARC Board Meeting (Continued)

- Field Day Committee Status (Clem KM6OKZ and Denney N6HV co-chairs)
  - Discussed and no motion was made to pay \$100 per night for usage of the restrooms; will have porta-potties and a hand washing station.
  - Oxnard College has approved our application for use of the Duck Pond
  - Clem has reached out to KVTA (Bob Allen and Tom Spence) and is waiting for a date; Denney, Robert and Mark Thompson AE6GD have agreed to attend.
  - Jeremy KN6JMD is contacting Oxnard about our Field Day and Ventura County will be issuing a proclamation about June being Amateur Radio Month.
  - Mark KI6PTE will loan us his RV. Clem will contact him to see if we can use the water and toilet and shower.
  - N3FJP logging software will be running overnight in Mark's RV.
- ARRL Chair (Dave AI6VX) Item skipped.
- ACS/ARES Chair (Burt KA6BJA)
  - Mountains to Beach Marathon needs volunteers. Tim and Dave will help.
- Meeting Venue (Pedro K6MIL not present)
  - No Response from Boys and Girls Club; Mark KD6ASL will obtain more details for the airports but both don't have kitchens. They want the club to have an aviation or emergency communications purpose.

### Special Orders:

- Inventory (Denney N6HV)
  - Report from Denney on 4/30/22 TRW swap meet; we received \$351 in donations; there were few sellers with low prices. We are running out of nice items to sell; only a few big items left. The Collins equipment was mostly sold but a few more (75S3, 32S1 and 51S1) are being readied for a specific buyer. We still have the tower.
  - Remaining inventory of club items and updated value.
    - Dave AI6VX suggested an inventory and packing visit to Denney's house with date TBD.

### Unfinished Business:

- Tabled issues from April 17th special board meeting
  - Consideration of limiting the board's ability to spend \$450 or more without general membership vote. This requires an amendment to the bylaws. The Accounting Committee will work towards clarifying this suggestion by producing a budget to be approved by the board for presentation and acceptance by the general membership. A mission statement should be included to focus where the club's interest is when the budget is discussed. (Continued on next page)

**Minutes of the May 8<sup>th</sup>, 2022, VCARC Board Meeting** (Continued)

**New Business:**

- Tim mentioned that the Lions may have an activity and might need emergency communications support.
- Dave made a motion to donate a subsidy of \$100 to Mark Ortega KI6YLH for a new grill that will be used for club and personal use. Clem seconded the motion and the majority voted in favor of the motion.
- Dave mentioned the Santa Maria swap meet on Father’s Day. A group of our members will go over to Denney’s to inventory and organize the club’s equipment and determine what to take and what to deliver to the scrap recycling center. The board members, as well as Pedro and Jeremy, who helped last summer, have been invited and a date will be set.

**Announcements:**

- Our next club meeting is scheduled for May 13th at the Dudley House. Denney N6HV will discuss “Current K6MEP Field Day Preparation Activities”. Richard WB6AEW will briefly talk about the Baker to Vegas relay run.

**Adjournment:**

- Dave made the motion to adjourn with Mark seconding and the vote was unanimous. The meeting adjourned at 20:45



## Minutes of the May 13th, 2022 General Membership Meeting of VCARC

GENERAL MEMBERSHIP MEETING (19:00)

MEETING ADDRESS: Dudley Historical House, 197 N. Ashwood Dr. Ventura CA 93003 and simulcast on Zoom

ATTENDANCE: Twenty one attended the in-person meeting and three attended the Zoom simulcast. Officers attending: President Robert KM6RSS, Secretary Phil WA6BUZ, Treasurer John W6JPG, board member Dave AI6VX and Burt KA6BJA. Not attending were Vice President Clem KM6OKZ and board member Mark Swaney KD6ASL.

### MEETING WAS CALLED TO ORDER AT 19:23 (late due to internet set-up issues)

President Robert KM6RSS welcomed everyone and held the flag salute. Afterwards, he asked for any member who brought a guest to introduce them. Keith W6KME introduced Zak Cohen N6PK, who is the ACS/ARES Area 2 emergency coordinator. Kurt McCullum KN6TKN, from Camarillo, introduced himself and said that he had heard our Monday Night Net and was interested in our club. Janet Lawson Esq. KN6HPJ introduced herself and had heard about our club. Jan later joined the club that night and is now a full member.

### Announcements:

- At the May 8<sup>th</sup> board meeting, Burt KA6BJA was appointed to fill Steve Noll WA6EJO's board position.
- The next Board Meeting (on Zoom) is June 5<sup>th</sup>; everyone is invited to attend with the credentials on our calendars
- The club's next meeting date is June 10<sup>th</sup>. Scheduled is Denney N6HV, one of our Field Day Committee members, who will lead our "K6MEP Field Day Final Preparation Activities". Field Day is June 24 (setup) 25, and 26 (takedown after 11am).
- Thanks was given to all those who brought refreshments for tonight's meeting (Linda, Ben K6QV and others).
- **Calendar: See groups.io or K6MEP.org for an updated Calendar.**



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## Minutes of the May 13<sup>th</sup>, 2022, VCARC General Membership Meeting (Continued)

### Committee Reports

- K6MEP Monday Night Contest: Robert KM6RSS reported the status as of week 19; 299 check-ins with 36 visitors and a 15.74 average. He asked for volunteers as net control operators for 5/16 and 5/30. No one signed the volunteer log.
- Budget Committee: John W6JPG, Dave AI6VX and Mark KD6ASL (absent) have held their first budgeting meeting and are developing a process for board and club approval.
- Goals Committee: Burt KA6BJA and Mark KD6ASL (absent) have held the first club mission and goals meeting.
- Club's Inventory: Denney N6HV presented the status of the club's inventory and work party date prior to swap meet at K6OIL in Santa Maria. He stated that he wouldn't be going to the TRW swap meet on May 28<sup>th</sup> but Dave and Robert will join a work party at his house on May 21 to inventory and pack equipment for the TRW swap. Pedro K6MIL (absent) has said that he would drive his SUV and trailer to the swap and would be joined by other members to help obtain donations for the equipment.
- Health and Safety: There were no issues; Mark KI6PTE wasn't in attendance but provided the first aid kit.
- Youth Outreach: Tim KN6JGB wasn't in attendance.
- Picnic: Highlights of the club's May 7<sup>th</sup> picnic (about 30 members and guests, thanks to committee chairman Mark KD6ASL, Mark Ortega KI6YLH and others).
- Meeting Venue: Pedro K6MIL wasn't in attendance. Update; no Boys & Girls Club, maybe Oxnard or Camarillo airport; no kitchen. Jan KN6HPJ offered to look into the Ventura Yacht Club.
- ARRL Liaison (Dave AI6VX): Dave discussed his being listed on the ARRL web site and will obtain flyers for Field Day.
- ACS/ARES Liaison (Burt KA6BJA) [Mountains to Beach]: Burt discussed needing more volunteers.
- The club needs the following committees to assist with club business and would like volunteers:
  - a. Membership
  - b. Monday Night Net
  - c. DecemberFest selection (December 9th)
- **New Business: Does anyone have any new business to bring before the members?**
- Bob Brodie KJ6AAE needs Tim's contact information (provided after the meeting).

(Continued on next page)

## Minutes of the May 13<sup>th</sup>, 2022, VCARC General Membership Meeting (Continued)

### Break for socialization and set-up (15 minutes)

### Presentation (Started at approximately 20:30)

- Denney N6HV discussed “Current K6MEP Field Day Preparation Activities” and provided a list of band and times for members to select. He showed several photos from the 2021 Field Day. Several questions were asked by members and Denney received a round of applause.
- Richard WB6AEW presented a six minute YouTube video about amateur radio’s contribution to the “LAPRACC’S Baker to Vegas Challenge Cup Relay” and included his activities and participation at the “one mile out” spotter position. Several questions were asked by members and Richard received a round of applause.

### Adjournment:

- Denney made the motion to adjourn with Richard seconding. There was a unanimous vote and the meeting adjourned at 21:07. Everyone was invited to go to Toppers afterwards.



## K6MEP Monday Night Net Update Robert KM6RSS

Our new Monday Night Net Contest started Monday, January 3<sup>rd</sup> and will end on December 5<sup>th</sup>. To give those who are interested in the experience of being part of our Monday Night Net Contest as Control Operators, I've placed a sign-up spreadsheet on our groups.io website under files, 2022 Monday Night Net. We need back-up net controllers to sign up as well. If you would like to volunteer, please contact me with the date(s) you would like and whether you want to be the primary or the back-up net controller and I'll update the list, which is saved to our K6MEP.groups.io website

<https://groups.io/g/K6MEP/files/2022%20Monday%20Night%20Net%20Contest> .

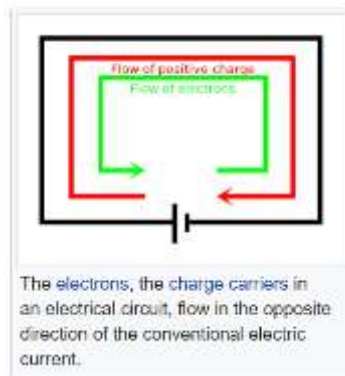
Below are the current Monday Night Net Contest Totals. Our groups.io has all of the Monday Night Net Contest documents in the files folder. Our contest-to-date total over 22 weeks is 360 check-ins with 52 visitors and an average of 16.36.

	Monday Night Net Contest Totals to Date		
Week #	Date	Total	Visitors
1	1/3/2022	15	2
2	1/10/2022	17	2
3	1/17/2022	14	1
4	1/24/2022	20	3
5	1/31/2022	19	1
6	2/7/2022	17	4
7	2/14/2022	14	2
8	2/21/2022	16	2
9	2/28/2022	11	1
10	3/7/2022	14	1
11	3/14/2022	17	2
12	3/21/2022	15	1
13	3/28/2022	13	0
14	4/4/2022	17	2
15	4/11/2022	18	4
16	4/18/2022	15	1
17	4/25/2022	19	3
18	5/2/2022	16	3
19	5/9/2022	12	1
20	5/16/2022	21	7
21	5/23/2022	20	3
22	5/30/2022	20	6
	<b>Total</b>	<b>360</b>	<b>52</b>

## Thoughts from the West - Reese West KQ6TT

### A GOOD GUESS - BUT NOT CORRECT

I was very fortunate to have military training in electronics before starting engineering school. I had seen and worked with radio and radar circuits up to and including waveguides. But there was a problem. I was taught that current flow was the flow of electrons. They flowed from negative to positive. I learned all kinds of rules involving the hands and fingers. By cupping the left hand fingers with the thumb pointing away from the fingers, you could get the direction of fields around a wire. By using the thumb and the two first fingers all pointing ninety degrees from each other, you could get the direction of fields and direction of motion, etc., for motors and generators.



However, when I started engineering, all theory said the current was from positive to negative. From the military point of view, current flow, electron flow, in a tube, was from the hot cathode to the positive plate. In my new studies, current went from the cold, passive plate to the cathode. Which of these makes the most sense? Rebellion was useless. All math for electrical engineering is taught with the assumption of positive to negative current flow. I had to shift all my thinking to that theory. This still causes me problems when working things out. This all comes from the choice made long ago by the early giants of electricity history. I spent a few evenings with Professor Ellery Paine, once the head of the electrical engineering department at the University of Illinois. He had been an electrical engineering student in the 1890s. As he put it, "Before the electron". All they had was motors and generators in the very first electrical engineering classes. When the direction of current flow was chosen, it was not known what it was. Could it all be changed now? Sure! Let us do it when we go metric. Of some interest is the story he told at several meetings at school. His grandmother told him about seeing soldiers during the American Revolution going by her front gate. He always pointed out that this was only second hand from the founding of this nation. This story, for you, is now just third hand from that time. This is not an old country.

Reese West KQ6TT



## Ham Network News – by Orv W6BI

The growth of the ham radio network in Ventura County has slowed in the last year, primarily due to lack of new hilltop sites to occupy (although access to a couple of new sites is being negotiated). So I'm working with our fellow hams in the northern half of our ARRL Santa Barbara Section to expand the network there.

They're making good progress, having deployed network coverage in Lompoc Valley, Orcutt/Santa Maria, Pismo Beach, Los Osos/Morro Bay, and the Paso Robles areas.

They've identified a couple of hilltop sites that can extend the network farther north. Similarly, there are hams in the Bay area working to extend the network south to Williams Hill. The north and south ends of that network will join, maybe in the first half of 2023.

If that happens, maybe we'll have some sort of "Golden Packet" ceremony, similar to the Golden Spike celebration held when the Union Pacific Railroad met the Central Pacific Railroad in Promontory Summit, Utah :-)



Here's the current ham network in the northern half of our ARRL Section. Several more hilltop nodes are planned in the next several months. Those will enable some of the links currently using Internet tunnels to be dropped in favor of true RF links.

73,  
Orv, W6BI

## Trivia by Dana KG6WXE

DID YOU KNOW?

1. Denmark (Danes) consumes the most candy in the world with a whopping 24.9 lbs. a year.



2. Americans consume just 24 lbs. a year.



3. Mars candy bar Milky Way was the first chocolate-filled candy made about 1940.



DE Dana Kg6wxex Happy Field Day 🍪

## 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 the Ventura County Amateur Radio Club. 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.

At this time I will call on tonight's alternate net control station (Name) \_\_\_\_\_(Call sign)\_\_\_\_\_, (Pause for alternate NC check in with "how's my signal "and respond appropriately). If for any reason my station should become inoperable the alternate net control station will proceed with the net.

K6MEP, the Ventura County Amateur Radio Club, meets at 19:00 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 \_\_\_\_ at the Dudley House and Zoom, where the presentation topic is \_\_\_\_\_ We urge any non-members interested in the Ventura County Amateur Radio Club to contact us at [K6MEP@qsl.net](mailto:K6MEP@qsl.net). Non-members interested in amateur radio are welcome to attend our meetings.

Our 2022 Contest started on January 3rd and ends on December 5th. Make sure to set your calendar alarms to remind you to check-in and join the Zoom get-together that follows.

(Continued on Next Page)

## **K6MEP Monday Night Net Script** (Continued)

The contest rules are: The person who checks-in to the K6MEP Monday Night Net Contest must hold a valid Amateur Radio License. If a non-member wins, they will be given a two-year membership in the club. The member's awards consist of \$100.00 for first place, \$50.00 for second place and \$25.00 for third place. In case of ties, the awards will be split equally among the members who qualify for the monetary award.

When you check-in, please give your call sign (phonetically), name and if you are a Ventura County Amateur Radio Club member. If you are not a member of the club, please include your QTH or location.

Please check in now. (you can use the quick check in list spreadsheet if it helps in logging check-ins).

If the check-ins are completed or there is a lull in the check-ins say: Hearing no other check-ins at this time, we will now begin with our Roundtable (Start with the first check-in and ask him/her about ham radio activities during last week, then move on to the next person). At every ten minute mark, identify with your name, call sign and Ventura County Amateur Radio Club net.

During the Roundtable, pause every 10 minutes and identify yourself with "This is (Name) \_\_\_\_\_(Call sign)\_\_\_\_\_, tonight's net control station for the Ventura County Amateur Radio Club Net". Also ask if anyone wants to check-in. If none, ask "Any last comments? \*\*\*\*\* Any late, missed, or visitor check-ins?"

Please check-in now.

Say "Hearing no new check-ins, does anyone have anything else they would like to add to tonight's net?"

If nothing is heard;

(Closing): This concludes the Ventura County Amateur Radio Club 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 (Name) \_\_\_\_\_(Call sign)\_\_\_\_\_, tonight's Ventura County Amateur Radio Club net control, signing off and returning the repeater to its normal use.

## Selected Contests & Special Events

Please see QST or the ARRL website ([www.arrl.org](http://www.arrl.org)) for any details and QSL information.

Maty Weinberg, KB1EIB, [events@arrl.org](mailto:events@arrl.org); [www.arrl.org/special-event-stations](http://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!

**Through Dec. 31, 0000Z – 2359Z, GB1900HA and GB1900HW,** South Shields and Hexham, England. Hadrian's Wall Partnership. **Hadrian's Wall 1900 Festival.** 14.200 7.150 14.500 21.300. QSL. LoTW. *These two special event stations will run throughout 2022 to commemorate 1,900 years since the building of Hadrian's Wall.* [www.qrz.com/db/gb1900ha](http://www.qrz.com/db/gb1900ha) and [www.qrz.com/db/gb1900hw](http://www.qrz.com/db/gb1900hw)

**May 20, 1400Z – 2000Z, K2CAM,** Garden City, NY. Cradle of Aviation Museum/The Long Island Mobile Amateur Radio Club. **Celebrating the 95th Anniversary of Charles Lindbergh's Solo Flight Across the Atlantic.** 20 and 40 meters; 7.240 14.240 FT8. QSL. LIMARC, P.O. Box 392, Levittown, NY 11756. [education@limarc.org](mailto:education@limarc.org), [www.qrz.com/db/k2cam](http://www.qrz.com/db/k2cam), or [limarc.org/special-events](http://limarc.org/special-events)

**May 27 – May 31, 1600Z – 1600Z, K5E,** Sherman, TX. K15DQ. **Memorial Day: Remembering Those that Served.** 7.220 14.260. QSL. James Hunt, 1026 Valentine Dr., Sherman, TX 75090.

**May 29 – June 11, 0000Z – 2359Z, K9R,** Vincennes, IN. K9GX. **Red Skelton Museum Festival 2022.** 80, 40, 20, and higher bands, as conditions permit. QSL. Mark Steven Williams, P.O. Box 5973, Elizabeth, IN 47117-5973. [k9rspecialevent@gmail.com](mailto:k9rspecialevent@gmail.com) or [www.qrz.com/db/k9r](http://www.qrz.com/db/k9r)

**June 2 – June 15, 1300Z – 2200Z, W2W,** Baltimore, MD. Amateur Radio Club of the National Electronics Museum. **D-Day Commemoration.** 7.044 7.244 14.044 14.244. Certificate & QSL. W2W D-Day, P.O. Box 1693, MS 4015, Baltimore, MD 21203. Primary operation June 4 – 7; additional operation June 2 – 3 and 8 – 15, as operator availability permits. *Operation on 80 meters (3.544, 3.844), additional bands and digital modes possible during event.* [www.wv-2.us](http://www.wv-2.us)

**June 3, 1500Z – 2300Z, K0SAL,** Lincoln, NE. Lincoln SATERN. **Salvation Army Donut Day.** 14.265 14.280 14.312. QSL. Charles Bennett, KD0PTK, P.O. Box 67181, Lincoln, NE 68506.

**June 3 – June 5, 2200Z – 1900Z, NE1PL,** Fall River, MA. USNR. **Museum Ships on the Air.** 14.259; 80 and 40 meters. QSL. Rick Emord, KB1TEE, 135 Wareham St., Middleboro, MA 02344. *Other bands possible depending on operator availability.* [www.net1pl.org](http://www.net1pl.org)

**June 4, 1300Z – 2100Z, W2A,** Christiansburg, VA. New River Valley Amateur Radio Club. **Audie Murphy.** 3.860 7.262 14.262. QSL. Danny Wylam, 710 McDaniel Dr., Christiansburg, VA 24073-3848. [dannywylam@gmail.com](mailto:dannywylam@gmail.com)

**June 4 – June 5, 0000Z – 2359Z, N1S,** Groton, CT. Generations Amateur Radio Club. **USS Nautilus SSN 571, First Nuclear Submarine.** 3.850 7.225 14.275 51.500. QSL. Via bureau to K3LBD, or direct to Harrison Solt, 110 Vinegar Hill Rd., Gales Ferry, CT 06335. [www.qrz.com/db/n1s](http://www.qrz.com/db/n1s) or [www.qrz.com/db/k3lbd](http://www.qrz.com/db/k3lbd)

**June 4 – June 5, 0001Z – 2359Z, NJ2BB,** Camden, NJ. Battle-ship New Jersey Amateur Radio Station. **Museum Ships Weekend Event.** 7.044 7.262 14.044 14.262. QSL. Margaret Burgess, 150 Schooner Ave., Barnegat, NJ 08005. [www.nj2bb.org](http://www.nj2bb.org)

**June 4 – June 5, 1400Z – 1600Z, K8E,** Toledo, OH. Toledo Mobile Radio Association and National Museum of the Great Lakes. **Museum Ships Weekend.** 7.074 7.260 14.074 14.260; SSB, FT8, and CW. QSL. Col. James M. Schoonmaker K8E, P.O. Box 9673, Toledo, OH 43697. [www.tmrhamradio.org](http://www.tmrhamradio.org)

**June 4 – June 5, 1400Z – 2100Z, NB9QV,** Manitowoc, WI. USS Cobia Amateur Radio Club. **World War II Submarine USS Cobia On the Air.** 7.240 14.240. QSL. Fred Neuenfeldt, W6BSF, 4932 S. 10th St., Manitowoc, WI 54220-9121. [www.qrz.com/db/nb9qv](http://www.qrz.com/db/nb9qv)

**June 4 – June 5, 1500Z – 0000Z, W0M,** Saint Paul, MN. South East Metro Amateur Radio Club. **Commemoration of the 80th Anniversary of the Battle of Midway.** 7.035 7.250 14.250 18.100. Certificate. Brian F. McInerney, 2523 Cochrane Dr., Saint Paul, MN 55125. *Certificates can be downloaded 1 month after the event.* [www.semarc.org](http://www.semarc.org)

**June 4 – June 5, 1600Z – 2130Z, W5KID,** Baton Rouge, LA. Baton Rouge Amateur Radio Club. **Museum Ships on the Air Weekend.** 7.040 7.250 14.040 14.250. QSL. USS Kidd Amateur Radio Club, 305 S. River Rd., Baton Rouge, LA 70802. [www.qrz.com/db/w5kid](http://www.qrz.com/db/w5kid)

**June 4 – June 20, 1200Z – 0300Z, W1G/K1G,** various towns, RI. Blackstone Valley Amateur Radio Club. **200th Anniversary of the Burning of HMS Gaspee.** 7.275 14.035 13.074. Certificate & QSL. Robert Beaudet, W1YRC, 30 Rocky Crest Rd., Cumberland, RI 02861. *Work both stations and receive a certificate.* [www.w1ddd.org/gaspeedays.html](http://www.w1ddd.org/gaspeedays.html)

**June 8 – June 13, 0001Z – 2359Z, K0F,** Fergus Falls, MN. Fergus Falls Lake Region Amateur Radio Club. **150th Anniversary of Fergus Falls.** 7.074 12.270 18.100. QSL. Dwight Moore, 1205 Aurdal Ave., Fergus Falls, MN 56537. <https://frarc.wordpress.com>

**June 10 – June 12, 1000Z – 1800Z, K5E,** Sherman, TX. Fannin County Amateur Radio Club. **K5FRC. Texoma Island Expedition.** 7.220 14.260 144.210. QSL. James Hunt, 1026 Valentine Dr., Sherman, TX 75090-8350. [ki5dq@yahoo.com](mailto:ki5dq@yahoo.com).

**June 11, 1700Z – 2100Z, N2B/N2D/N2H/N2N/N2O/N2S/N2U/N2V,** Beacon, NY. Hudson Valley Digital Network. **2nd Annual Hudson River Radio Relay Featuring Bannerman Island.** 7.200 14.250 18.128 50.130. Certificate. Via email, see website for details, or Hudson Valley Digital Network, 106 Cedar Ave., c/o HR3 2022, Poughkeepsie, NY 12603. *This is an operating event.* [www.hudsonriverradiorelay.com/for-radio-amateurs.html](http://www.hudsonriverradiorelay.com/for-radio-amateurs.html)

**June 11 – June 17, 1800Z – 1800Z, K0V,** Rapid City, SD. National Speleological Society. **NSS Annual Convention.** 7.050 7.195 14.050 14.285. QSL. Sam Rowe, KG9NG, 2749 Commercial Ave., Madison, WI 53704. [k0v@nssces.org](mailto:k0v@nssces.org)

**June 18, 1400Z – 2000Z, W1M,** Russell, MA. Western Mass Council, BSA. **W1M. WHOA Weekend.** 7.190 10.115 14.060 14.290. Certificate. eQSL or Tom Barker, 329 Faraway Rd., Whitefield, NH 03598.

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!

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**May 20, 1400Z – 2000Z, K2CAM**, Garden City, NY. Cradle of Aviation Museum/The Long Island Mobile Amateur Radio Club. **Celebrating the 95th Anniversary of Charles Lindbergh's Solo Flight Across the Atlantic**. 20 and 40 meters; 7.240 14.240 FT8. QSL. LIMARC, P.O. Box 392, Levittown, NY 11756. [education@limarc.org](mailto:education@limarc.org), [www.qrz.com/db/k2cam](http://www.qrz.com/db/k2cam), or [limarc.org/special-events](http://limarc.org/special-events)

**May 27 – May 31, 1600Z – 1600Z, K5E**, Sherman, TX. K15DQ. **Memorial Day: Remembering Those that Served**. 7.220 14.260. QSL. James Hunt, 1026 Valentine Dr., Sherman, TX 75090.

**May 29 – June 11, 0000Z – 2359Z, K9R**, Vincennes, IN. K9GX. **Red Skelton Museum Festival 2022**. 80, 40, 20, and higher bands, as conditions permit. QSL. Mark Steven Williams, P.O. Box 5973, Elizabeth, IN 47117-5973. [k9rspecialevent@gmail.com](mailto:k9rspecialevent@gmail.com) or [www.qrz.com/db/k9r](http://www.qrz.com/db/k9r)

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**June 3, 1500Z – 2300Z, K0SAL**, Lincoln, NE. Lincoln SATERN. **Salvation Army Donut Day**. 14.265 14.280 14.312. QSL. Charles Bennett, KD0PTK, P.O. Box 67181, Lincoln, NE 68506.

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**June 4, 1300Z – 2100Z, W2A**, Christiansburg, VA. New River Valley Amateur Radio Club. **Audie Murphy**. 3.860 7.262 14.262. QSL. Danny Wylam, 710 McDaniel Dr., Christiansburg, VA 24073-3848. [dannywylam@gmail.com](mailto:dannywylam@gmail.com)

**June 4 – June 5, 0000Z – 2359Z, N1S**, Groton, CT. Generations Amateur Radio Club. **USS Nautilus SSN 571, First Nuclear Submarine**. 3.850 7.225 14.275 51.500. QSL. Via bureau to K3LBD, or direct to Harrison Solt, 110 Vinegar Hill Rd., Gales Ferry, CT 06335. [www.qrz.com/db/n1s](http://www.qrz.com/db/n1s) or [www.qrz.com/db/k3lbd](http://www.qrz.com/db/k3lbd)

**June 4 – June 5, 0001Z – 2359Z, NJ2BB**, Camden, NJ. Battle-ship New Jersey Amateur Radio Station. **Museum Ships Weekend Event**. 7.044 7.262 14.044 14.262. QSL. Margaret Burgess, 150 Schooner Ave., Barnegat, NJ 08005. [www.nj2bb.org](http://www.nj2bb.org)

**June 4 – June 5, 1400Z – 1600Z, K8E**, Toledo, OH. Toledo Mobile Radio Association and National Museum of the Great Lakes. **Museum Ships Weekend**. 7.074 7.260 14.074 14.260; SSB, FT8, and CW. QSL. Col. James M. Schoonmaker K8E, P.O. Box 9673, Toledo, OH 43697. [www.tmrahamradio.org](http://www.tmrahamradio.org)

**June 4 – June 5, 1400Z – 2100Z, NB9QV**, Manitowoc, WI. USS *Cobia* Amateur Radio Club. **World War II Submarine USS Cobia On the Air**. 7.240 14.240. QSL. Fred Neuenfeldt, W6BSF, 4932 S. 10th St., Manitowoc, WI 54220-9121. [www.qrz.com/db/nb9qv](http://www.qrz.com/db/nb9qv)

**June 4 – June 5, 1500Z – 0000Z, W0M**, Saint Paul, MN. South East Metro Amateur Radio Club. **Commemoration of the 80th Anniversary of the Battle of Midway**. 7.035 7.250 14.250 18.100. Certificate. Brian F. McInerney, 2523 Cochrane Dr., Saint Paul, MN 55125. *Certificates can be downloaded 1 month after the event.* [www.semarc.org](http://www.semarc.org)

**June 4 – June 5, 1600Z – 2130Z, W5KID**, Baton Rouge, LA. Baton Rouge Amateur Radio Club. **Museum Ships on the Air Weekend**. 7.040 7.250 14.040 14.250. QSL. USS *Kidd* Amateur Radio Club, 305 S. River Rd., Baton Rouge, LA 70802. [www.qrz.com/db/w5kid](http://www.qrz.com/db/w5kid)

**June 4 – June 20, 1200Z – 0300Z, W1G/K1G**, various towns, RI. Blackstone Valley Amateur Radio Club. **200th Anniversary of the Burning of HMS Gaspee**. 7.275 14.035 13.074. Certificate & QSL. Robert Beaudet, W1YRC, 30 Rocky Crest Rd., Cumberland, RI 02861. *Work both stations and receive a certificate.* [www.w1ddd.org/gaspeedays.html](http://www.w1ddd.org/gaspeedays.html)

**June 8 – June 13, 0001Z – 2359Z, K0F**, Fergus Falls, MN. Fergus Falls Lake Region Amateur Radio Club. **150th Anniversary of Fergus Falls**. 7.074 12.270 18.100. QSL. Dwight Moore, 1205 Aurdal Ave., Fergus Falls, MN 56537. <https://lrarc.wordpress.com>

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**June 11, 1700Z – 2100Z, N2B/N2D/N2H/N2N/N2O/N2S/N2U/N2V**, Beacon, NY. Hudson Valley Digital Network. **2nd Annual Hudson River Radio Relay Featuring Bannerman Island**. 7.200 14.250 18.128 50.130. Certificate. Via email, see website for details, or Hudson Valley Digital Network, 106 Cedar Ave., c/o HR3 2022, Poughkeepsie, NY 12603. *This is an operating event.* [www.hudsonriverradiorelay.com/for-radio-amateurs.html](http://www.hudsonriverradiorelay.com/for-radio-amateurs.html)

**June 11 – June 17, 1800Z – 1800Z, K0V**, Rapid City, SD. National Speleological Society. **NSS Annual Convention**. 7.050 7.195 14.050 14.285. QSL. Sam Rowe, KG9NG, 2749 Commercial Ave., Madison, WI 53704. [k0v@nssces.org](mailto:k0v@nssces.org)

**June 18, 1400Z – 2000Z, W1M**, Russell, MA. Western Mass Council, BSA. **WHOA Weekend**. 7.190 10.115 14.060 14.290. Certificate. eQSL or Tom Barker, 329 Faraway Rd., Whitefield, NH 03598.

## Selected Contests & Special Events (Continued)

**June 18 – June 19, 1200Z – 0900Z, WA4TRS**, Fairview, NC. The Road Show Amateur Radio Club, Inc. **Journey back to 1776: Davidson's Fort, Old Fort, NC.** 14.315. Certificate & QSL. The Road Show ARC, 57 Echo Lake Dr., Fairview, NC 28730. [www.roadshowarc.org](http://www.roadshowarc.org)

**June 24 – June 26, 0000Z – 2359Z, N6R**, Simi Valley, CA. Ventura County Amateur Radio Society. **Field Day 2022.** 3.810 7.260 14.255 21.320. QSL. Peter S. Heins, N6ZE, 1559 Norwich Ave. E., Thousand Oaks, CA 91360. *Commemorating the lives of President Ronald & Mrs. Nancy Reagan. Check website for updates.* [www.qrz.com/db/n6r](http://www.qrz.com/db/n6r)

**June 25, 1000Z – 1800Z, N2A**, Rogersville, TN. Hawkins Hancock Amateur Radio Team. **Amis Mill Historic Site.** 7.017 7.018 7.019 7.020. QSL. Hawkins Hancock Amateur Radio Team, P.O. Box 356, Rogersville, TN 37857. [www.tnvacation.com/local/rogersville-thomas-amis-historic-site](http://www.tnvacation.com/local/rogersville-thomas-amis-historic-site)

**June 25 – June 26, 0000Z – 2359Z, K4D**, Daleville, AL. Daleville Area Amateur Radio Service, K2DAL. **Daleville Area K2DAL Field Day 2022.** 14.295 7.295 3.895. QSL. Kevin Turley, Daleville Area Amateur Radio Service, P.O. Box 724, Daleville, AL 36322. [www.daleville.us](http://www.daleville.us)

**June 25 – July 7, 1200Z – 2300Z, K0R**, Athol, KS. Smith County Amateur Radio Club. **150th Anniversary of Home on the Range.** 14.336 7.265 3.930. Certificate & QSL. Michael G. Saft, KB0QGT, 220 E. Kansas Ave., Smith Center, KS 66967.

**June 30 – July 1, 1500Z – 0100Z, N7GMH**, Prescott Valley, AZ. Yavapai Amateur Radio Club. **Granite Mountain Hotshots: Loss of 19 Granite Mountain Hotshots in June 30, 2013 Wildfire.** 7.219 14.319 18.119 21.319. Certificate. Donald Bauer, WB7TPH, 7150 E. Acre Way, Prescott Valley, AZ 86315. [www.qrz.com/db/n7gmh](http://www.qrz.com/db/n7gmh)

**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 x 12-inch self-addressed, stamped envelope (3 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](http://www.arrl.org/special-events-application), or email information to [events@arrl.org](mailto:events@arrl.org).

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 Event 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](http://www.arrl.org/special-event-stations).

## Strays

### SOTA Launches Year-Long 20th Anniversary Activity

A special award has been launched to celebrate Summits on the Air's (SOTA) 20th anniversary. The activity spans the year from March 2022 to March 2023. Since the 2002 launch of SOTA in England (G) and Wales (GW), over 100 SOTA associations worldwide have been established, with over 24,000 participants.

For the year-long SOTA anniversary activity, participants can submit normal logs for the year to obtain a certificate for the 20 highest-scoring days, as determined by the SOTA Database. There are separate chasing and activating certificates, which will be downloadable from the database free of charge. This is not a contest, so the display will be presented alphabetically by call sign.

Some special event stations have already taken place. Operating as GB2OTA, Roger Dallimore, MW0IDX, activated the summit of Mynydd y Cwm (GW/NW-076), in Wales. Operating as GB20SOTA, Tom Read, M1EYP, activated the summit of The Cloud (G/SP-015) in England. More special event calls are planned in Northern Ireland (GI), Scotland (G), and the US (W2).



Roger Dallimore, MW0IDX, with his daughter, Hannah, activating SOTA summit Mynydd y Cwm (GW/NW-076). [Roger Dallimore, MW0IDX, photo]

# Contest Corral

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

## Contest Corral

## June 2022

Check for updates and a downloadable PDF version online at [www.arrrl.org/contest-calendar](http://www.arrrl.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	1700	1 2000	144	VHF-UHF FT8 Activity Contest	FT8	4-char grid square	<a href="http://www.ft8activity.eu/index.php/en">www.ft8activity.eu/index.php/en</a>
2	1700	2 2100	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	<a href="http://nrricontest.no/index.php/nrrl-contests">nrricontest.no/index.php/nrrl-contests</a>
2	1900	2 2100	1.8-50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
3	0000	5 2359	1.8-50	PODXS 070 Club Three Day Contest	Dig	Mbr or "0000"	<a href="http://www.podxs070.com">www.podxs070.com</a>
3	1900	3 1959	3.5, 7	HA3NS Sprint Memorial Contest	CW	RST, mbr or "NM"	<a href="http://radioamator.honiapepites.hu/?p=1280">radioamator.honiapepites.hu/?p=1280</a>
4	0000	5 2359	28	10-10 International Open Season PSK Contest	Dig	Name, SPC, mbr	<a href="http://www.ten-ten.org">www.ten-ten.org</a>
4	0600	4 0800	7, 14	Wake-Up! QRP Sprint	CW	RST, serial, suffix of previous QSO	<a href="http://qrp.ru/contest/wakeup/333-wakeup-eng">qrp.ru/contest/wakeup/333-wakeup-eng</a>
4	0600	5 0600	1.8-UHF	KANHAM Contest	CW Ph	RST, JA prefecture	<a href="http://www.jarl.gr.jp/kanhamcontest/en">www.jarl.gr.jp/kanhamcontest/en</a>
4	1200	5 1159	1.8-28	Tisza Cup CW Contest	CW	RST, CQ zone	<a href="http://tizacup.eu/index.php/en/contest-rules">tizacup.eu/index.php/en/contest-rules</a>
4	1300	5 0100	1.8-144	Kentucky QSO Party	CW Ph Dig	RS(T), KY county or SPC	<a href="http://www.kyqsoparty.org/rules">www.kyqsoparty.org/rules</a>
4	1300	5 1300	50	UKSMG Summer Contest	CW Ph RTTY	RST, serial, 6-char grid square	<a href="http://uksmg.org/summer-contest-rules.php">uksmg.org/summer-contest-rules.php</a>
4	1500	5 1459	1.8-28	IARU Region 1 Field Day, CW	CW	RST, serial	<a href="http://darc.de/der-club/referate/conteste">darc.de/der-club/referate/conteste</a>
4	1500	5 1500	1.8-28	RSGB National Field Day	CW	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
4	1800	5 2359	1.8-50	ARRL International Digital Contest	Dig, no RTTY	4-char grid square	<a href="http://arrrl.org/arrrl-digital-contest">arrrl.org/arrrl-digital-contest</a>
5	1700	5 2200	All	Cookie Crumble QRP Contest	CW Ph Dig	RS(T), SPC, cookie number, name	<a href="http://w3atb.com/cookie-crumble">w3atb.com/cookie-crumble</a>
6	1630	6 1729	3.5, 7	OK1WC Memorial (MWC)	CW	RST, serial	<a href="http://memorial-ok1wc.cz/index.php?page=rules2l">memorial-ok1wc.cz/index.php?page=rules2l</a>
6	1900	6 2030	3.5	RSGB 80-Meter Club Championship, Data	Dig	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
7	0100	7 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	<a href="http://arsqrp.blogspot.com">arsqrp.blogspot.com</a>
8	0030	8 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	<a href="http://naqcc.info">naqcc.info</a>
8	1700	8 2000	432	VHF-UHF FT8 Activity Contest	FT8	4-char grid square	<a href="http://www.ft8activity.eu/index.php/en">www.ft8activity.eu/index.php/en</a>
11	0000	11 2359	1.8-28	VK Shires Contest	CW Ph	RS(T), VK shire or CQ zone	<a href="http://www.wia.org.au/members/contests">www.wia.org.au/members/contests</a>
11	0000	12 1559	3.5-28	DRCG WW RTTY Contest	Dig	RST, CQ Zone	<a href="http://www.drcg.de/drcgww">www.drcg.de/drcgww</a>
11	1100	11 1300	14, 21	Asia-Pacific Sprint, SSB	Ph	RS, serial	<a href="http://jsfc.org/apsprint/aprule.txt">jsfc.org/apsprint/aprule.txt</a>
11	1200	12 1200	3.5-28	Portugal Day Contest	CW Ph	RS(T), CT district or serial	<a href="http://portugaldaycontest.rsp.pt/rules.php">portugaldaycontest.rsp.pt/rules.php</a>
11	1200	12 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
11	1400	11 1800	144, 432	AGCW VHF/UHF Contest	CW	RST, serial, power, 6-char grid square	<a href="http://www.agcw.de/contest/vhf-uhf">www.agcw.de/contest/vhf-uhf</a>
11	1500	12 1500	3.5-28	GACW WWSA CW DX Contest	CW	RST, CQ zone	<a href="http://contest.com.ar">contest.com.ar</a>
11	1600	12 1600	50	REF DDFM 6 Meter Contest	CW Ph	RS(T), serial, 4-char grid square	<a href="http://concours.r-e-f.org">concours.r-e-f.org</a>
11	1800	13 0359	50 and up	ARRL June VHF Contest	CW Ph Dig	4-char grid square	<a href="http://www.arrrl.org/june-vhf">www.arrrl.org/june-vhf</a>
13	0000	13 0200	1.8-28	4 States QRP Group 2nd Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	<a href="http://www.4sqrp.com/SSS/sss_rules.pdf">www.4sqrp.com/SSS/sss_rules.pdf</a>
13	1630	13 1729	3.5, 7	OK1WC Memorial (MWC)	CW	RST, serial	<a href="http://memorial-ok1wc.cz/index.php?page=rules2l">memorial-ok1wc.cz/index.php?page=rules2l</a>
15	0030	15 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	<a href="http://naqcc.info">naqcc.info</a>
15	1700	15 2000	1.2G	VHF-UHF FT8 Activity Contest	FT8	4-char grid square	<a href="http://www.ft8activity.eu/index.php/en">www.ft8activity.eu/index.php/en</a>
15	1900	15 2030	3.5	RSGB 80-Meter Club Championship, CW	CW	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
16	1200	16 1300	7	SARL Youth Sprint	Ph	RS, age	<a href="http://www.sarl.org.za">www.sarl.org.za</a>
16	1900	16 2000	3.5-14	NTC QSO Party	CW	Max 25 WPM; RST, mbr or "NM"	<a href="http://qsl.net/ntc/party.html">qsl.net/ntc/party.html</a>
18	0000	18 2359	3.5-28	Battle of Carabobo International Contest	Ph	RS(T), YV state or serial	<a href="http://www.qrz.com/db/YV4VV">www.qrz.com/db/YV4VV</a>
18	0000	19 2359	1.8-28	All Asian DX Contest, CW	CW	RST, 2-digit age	<a href="http://www.jarl.org/English">www.jarl.org/English</a>
18	1200	19 1159	3.5-28	Ukrainian DX Classic RTTY Contest	Dig	RST, 2-letter Ukraine oblast or serial	<a href="http://urdx.org/rtty/eng.htm">urdx.org/rtty/eng.htm</a>
18	1400	19 1400	50	IARU Region 1 50 MHz Contest	CW Ph	RS(T), serial, 6-char grid square	<a href="http://www.iaru-r1.org">www.iaru-r1.org</a>
18	1500	19 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	<a href="http://www.kkn.net/stew">www.kkn.net/stew</a>
18	1600	19 0400	3.5-28	West Virginia QSO Party	CW Ph Dig	RS(T), WV county or SPC	<a href="http://www.qsl.net/wvsarc">www.qsl.net/wvsarc</a>
18	1800	18 1959	1.8-50	Feld Hell Sprint	Dig	MBR, SPC, grid square	<a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>
18	1800	18 2359	3.5, 7, 14, 18, 21, 24, 28, 144 repeaters	ARRL Kids Day	Ph	Name, age, QTH, favorite color	<a href="http://www.arrrl.org/kids-day">www.arrrl.org/kids-day</a>
19	0800	19 1400	50	WAB 50 MHz Phone	Ph	RS, serial, WAB square or country	<a href="http://wab.internip.net">wab.internip.net</a>
19	2300	20 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	<a href="http://qrpcontest.com/pigrun">qrpcontest.com/pigrun</a>
20	1630	20 1729	3.5, 7	OK1WC Memorial (MWC)	CW	RST, serial	<a href="http://memorial-ok1wc.cz/index.php?page=rules2l">memorial-ok1wc.cz/index.php?page=rules2l</a>
22	0000	22 0200	1.8-50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
23	1900	23 2030	3.5	RSGB 80-Meter Club Championship, SSB	Ph	RS, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
25	0000	25 2359	3.5-28	Pajajaran Bogor DX Contest	Ph	RS, serial	<a href="http://pbdx-contest.com/rules">pbdx-contest.com/rules</a>
25	0600	25 1700	3.5-28	UFT QRP Contest	CW	RST, QRP/QRO, mbr or "NM"	<a href="http://www.uft.net/concours-qrp-uft">www.uft.net/concours-qrp-uft</a>
25	1200	26 1200	3.5-28	Ukrainian DX DiGi Contest	RTTY, PSK63	RST, 2-letter Ukraine oblast or serial	<a href="http://izmail-dx.lrc.net.ua">izmail-dx.lrc.net.ua</a>
25	1200	26 1200	1.8-28	His Majesty King of Spain Contest, SSB	Ph	RST, EA province or serial	<a href="http://concursos.ure.es/en">concursos.ure.es/en</a>
25	1800	26 2059	All	ARRL Field Day	CW Ph Dig	Number of transmitters, operating class, ARRL/RAC section or "DX"	<a href="http://www.arrrl.org/field-day">www.arrrl.org/field-day</a>
27	1630	27 1729	3.5, 7	OK1WC Memorial (MWC)	CW	RST, serial	<a href="http://memorial-ok1wc.cz/index.php?page=rules2l">memorial-ok1wc.cz/index.php?page=rules2l</a>
27	1900	27 2030	3.5-14	RSGB FT4 Contest	FT4	4-char grid square	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>

## Upcoming FCC Exam Session Preparation Sites

(Virtual and In Person)

### Cerritos CA 90703

06/25/2022

**Start/End Dates:** 06/25/2022 - 06/26/2022

**Times:** 0800-1700 Both days

**# of Sessions:** 1

**Class level:** Technician

**Morse code offered:** No

**Pre register required:** Yes

**Fee:** \$60

**Pre Study required:** Yes

**Class Type:** Weekend/One Day

**Exam offered:** Yes

**Sponsoring Club/Organization:** Wynnsradio

**Instructor:** KI6JAR

**Contact:** Ralph Wynkoop KI6JAR

**Phone:** (562) 895-7776

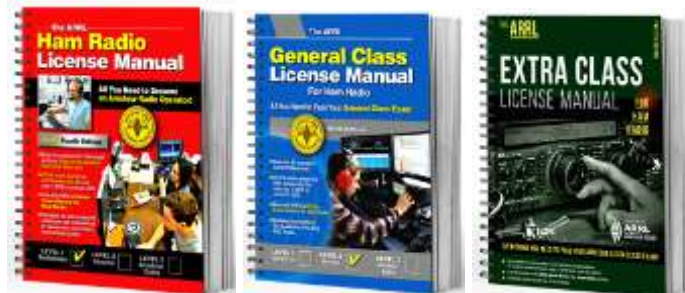
**Email:** [Wynnsradio@msn.com](mailto:Wynnsradio@msn.com)

**Location:** Cerritos Sheriff's Station

18135 Bloomfield Ave.

Cerritos, CA 90703

**Additional Information:** These very popular classes are done in the "Gordon West" style. This means demos, live radios in the classroom, and lots of radio parts to examine. This is a 2 day class, starting at 0800, on time, both Saturday and Sunday, and finishing around 1700 on Saturday. On Sunday, we're done around 1500, and then the Tech exam will be given. Exams are graded right away, and you will have your result before leaving on Sunday. This is the last class before the exam pool changes. (New exam pool will be effective July 1). An amateur HH (Hand Held) radio will be raffled off to one lucky winner. To enter, you need to take the class, and pass the exam. Registration and pre-study are required. No walk-ins. To register, send a check, made out to "Wynnsradio", to R. Wynkoop at P.O. Box 3793, Cerritos, CA 90703. You will receive, by return Priority Mail, a study packet with everything you will need, including the textbook, written by Gordo himself. Get registered early, as it takes about 2 weeks to comfortably complete the pre-study.



## Upcoming FCC Exam Test

(Within 50 miles) Due to the Coronavirus outbreak, please verify with your VE team that the exam session is being held.

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

### Thousand Oaks CA 91360-6861

06/12/2022

**Sponsor:** Conejo Valley ARC

**Date:** Jun 12 2022

**Time:** 8:30 AM (No Walk-ins / Register or Call ahead)

**Contact:** Andrew G. Ludlum  
(818) 370-3402

**Email:** [K6AGL@cvarc.org](mailto:K6AGL@cvarc.org)

**VEC:** [ARRL/VEC](#)

**Location:** East County Sheriff's Station, Community Room  
2101 E Olsen Rd

Proof of vaccination required.

Space is limited. Pre-registration required.

Thousand Oaks CA 91360-6861

**Website:** <http://www.cvarc.org/upcoming-ve-sessions/>



### Frazier Park CA 93225-9498

06/26/2022

**Sponsor:** Outdoor Adventure USA LLC

**Date:** Jun 26 2022

**Time:** 10:00 AM (Walk-ins allowed)

**Contact:** David T. Kupfer  
(310) 919-7526

**Email:** [k6dtk@oausa.net](mailto:k6dtk@oausa.net)

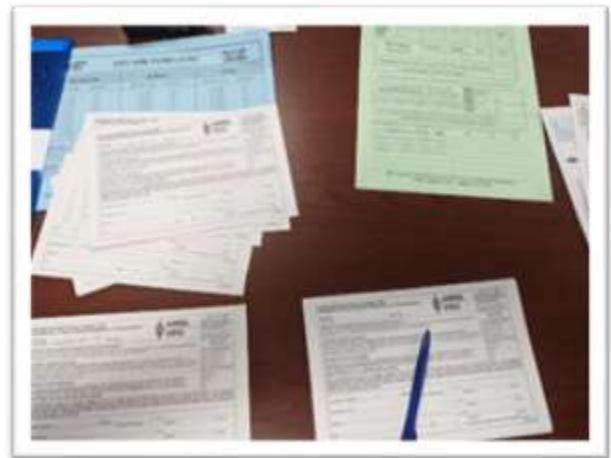
**VEC:** [ARRL/VEC](#)

**Location:** MT Pinos Campground (Los Padres National Forest)  
Cuddy Valley Road

For more info, please visit:

[www.oausa.net](http://www.oausa.net)

Frazier Park CA 93225-9498



## 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 started to accept the \$35 fee on April 19, 2022, 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.

## Convention and Hamfest Calendar

Steve Ewald, WV1X, [sewald@arrl.org](mailto:sewald@arrl.org); [www.arrl.org/hamfests-and-conventions-calendar](http://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  
 TI = Talk-in frequency  
 Adm = Admission

**Alabama (Northport) — June 18 DFHRTV**  
 8:30 AM – 2 PM. Spr: Black Warrior Hamfest. Tuscaloosa County High School, 12500 Wildcat Dr. TI: 145.350 (91.5 Hz). Adm: \$10. [www.blackwarriorhamfest.org](http://www.blackwarriorhamfest.org)

**California (Santa Maria) — June 18 FHTV**  
 9 AM. Spr: Satellite ARC. Elks Lodge #1538 1309 N. Bradley Rd. TI: 145.14 (131.8 Hz). Adm: Free. [www.kj6oil.us/event/swapfest](http://www.kj6oil.us/event/swapfest)

**Connecticut (Windsor) — June 11 FHV**  
 8 AM – noon. Spr: The ARC of the Vintage Radio and Communications Museum, 115 Pierson Lane. TI: None. Adm: Free. [www.vrcmct.org](http://www.vrcmct.org)

**Florida (Dade City) — June 11 DFHRTV**  
 8 AM – noon. Spr: Dade City Masonic Lodge, Dade City Lodge No. 48, F & AM, 13642 21st Street South (SR52). TI: 147.135 (146.2 Hz). Adm: \$5. Email: [n3os@arrl.net](mailto:n3os@arrl.net)

**Florida (Orlando) — July 9 FHR T**  
 6 AM – noon. Spr: South Conway Baptist Church, South Conway Baptist Church, 6099 S. Conway Rd, ZIP code: 32812. TI: None. Adm: Free. Email: [k4kdi@hotmail.com](mailto:k4kdi@hotmail.com)

**Iowa (Creston) — June 11 FRTV**  
 8 AM – noon. Spr: SWIARA Club. Union County Emergency Management, 705 East Taylor St. TI: 146.790 (136.5 Hz). Adm: Free. [www.facebook.com/groups/327085807349791](http://www.facebook.com/groups/327085807349791)

**Louisiana (Monroe) — June 4 DFHQ RSTV**  
 9 AM – noon. Spr: Louisiana Delta Radio Club. Barak Shriners Lodge, 6620 Frontage Rd. TI: 147.135 (127.3 Hz). Adm: \$5. [www.kc5dr.com](http://www.kc5dr.com)

**Maine (Hermon) — June 4 FHR T V**  
 8 AM – noon. Spr: Pine State ARC. Hermon High School, 2415 Route 2. TI: 146.940 (136.5 Hz). Adm: \$5. [www.n1me.org](http://www.n1me.org)

**Maryland (Upperco) — June 19 DFHQ RT**  
 7 AM – 2 PM. Spr: BARC. Arcadia Fairgrounds, 16920 Carnival Ave. TI: 146.67 (107.2 Hz). Adm: \$5. [www.w3ft.com](http://www.w3ft.com)

**Maryland (West Friendship) — May 29 DFHQ RTV**  
 8 AM – 1 PM. Spr: Maryland F. M. Association, Inc. Howard County Fair Grounds, 2210 Fairgrounds Rd. TI: 146.76 (107.2 Hz), 224.76 (107.2 Hz), 444.0 (107.2 Hz). Adm: \$10. [www.marylandfm.org](http://www.marylandfm.org)

**Michigan (Ferndale) — July 10 DFHRTV**  
 9 AM – 1 PM. Spr: K8FBI Radio Club. Fraternal Order of Police Lodge 130, 2233 Burdette St. TI: 442.600 (123 Hz). Adm: Free. [www.flyingbeers.org](http://www.flyingbeers.org)

**Michigan (Midland) — June 18 DFHV**  
 8 AM – noon. Spr: Midland ARC. Salvation Army Building, 330 Waldo Ave. TI: 147.0 (103.5 Hz). Adm: \$5. [www.w8kea.org](http://www.w8kea.org)

**Michigan (Monroe) — June 19 DFHQ RT**  
 7:30 AM – 1 PM. Spr: Monroe County Radio Community Association. Monroe County Fairgrounds. 3775 S. Custer Rd. TI: 146.72 (100 Hz). Adm: \$7. [www.mcrca.org](http://www.mcrca.org)

**Michigan (Newberry) — June 11 DFHRV**  
 9 AM – noon. Spr: Luce Amateur Radio Society. Luce County Fairgrounds, 5523 County Road 399. TI: 146.61 (114.8 Hz). Adm: \$5. [www.w8nby.org](http://www.w8nby.org)

**Michigan (Shelby Township) — June 18 DF**  
 8 AM – noon. Spr: GM ARC. Packard Proving Grounds, 49965 Van Dyke Ave. TI: 443.075 MHz (123 Hz). Adm: \$5 per carload buying or selling. [www.gmarc.org](http://www.gmarc.org)

**AURORA '22 Conference**  
 June 4, Plymouth, Minnesota

**HQST**  
 9 AM – 5 PM. Spr: Northern Lights Radio Society. West Medicine Lake Community Club, 1705 Forestview Lane North. TI: None. Adm: \$5. [www.nlrs.club](http://www.nlrs.club)

**Minnesota (Plymouth) — June 18 RT**  
 8 AM – 11:30 AM. Spr: Twin City FM Club. West Medicine Lake Community Center, 1705 Forestview Lane North. TI: 146.76 (114.8 Hz). Adm: \$5. [www.tcfmc.org](http://www.tcfmc.org)

**Minnesota (Roseville) — July 9 FHR T V**  
 8 AM – noon. Spr: Magic Repeater Club. Galilee Lutheran Church, 145 N. McCarrons Blvd. TI: 145.170 (114.8 Hz). Adm: Sellers \$5, buyers free. [www.magicrepeater.net/fest.htm](http://www.magicrepeater.net/fest.htm)

**New Jersey (Piscataway) — June 18 DFHQ RTV**  
 8 AM – noon. Spr: Raritan Valley Radio Club. Piscataway High School parking lot, 110 Behmer Rd. TI: 146.625 (141.3 Hz). Adm: \$7. [www.w2qw.org](http://www.w2qw.org)

**New Jersey (Rio Grande) — June 25 – 26 FT**  
 Sat. 9 AM – 5 PM, Sun. 9 AM – 5 PM. Spr: Cape May County ARC. Cape May County Airport, Ranger Rd. TI: 146.610 (88.5 Hz). Adm: Free. Email: [rmyersjr46@gmail.com](mailto:rmyersjr46@gmail.com)

**New Jersey (Spring Lake) — June 18 DFHR T V**  
 7 AM – 1 PM. Spr: Ocean Monmouth ARC. Spring Lake Heights Volunteer Fire Company Number One, 700 Sixth Ave. TI: 145.110 (127.3 Hz). Adm: \$5. [www.n2mo.org](http://www.n2mo.org)

**New Jersey (Township of Washington) — May 28 DFHQ RTV**  
 8 AM – 1 PM. Spr: Bergen ARA. Westwood Reg Jr./Sr. High School, 701 Ridgewood Rd. TI: 146.79 (141.3 Hz). Adm: \$5 hams, free for non-ham family members. [www.bara.org](http://www.bara.org)

**New Jersey (Wayne) — June 18 DHR**  
 8 AM – 1 PM. Spr: WRAET ARC. Wayne United Methodist Church, 99 Parish Dr. TI: 145.10 (79.7 Hz). Adm: \$5. [www.wraet.com](http://www.wraet.com)

**New York (Camillus) — July 9 DFHRTV**  
 7:30 AM – 12:30 PM. Spr: Radio Amateurs of Greater Syracuse. Camillus Elks Lodge#2367, 6117 Newport Rd. TI: 146.91 (103.5 Hz). Adm: \$5. [www.ragsclub.org](http://www.ragsclub.org)

**New York (Cortland) — June 11 FHRV**  
 7 AM – noon. Spr: Skyline ARC. Cortland County Fairgrounds, 4301 Fairgrounds Dr. TI: 147.180 (71.9 Hz). Adm: \$5. [www.skylinehamradioclub.org](http://www.skylinehamradioclub.org)

**New York (Lockport) — June 11 FHR T V**  
 8 AM – noon. Spr: Lockport ARA. Cambria Volunteer Fire Company, 4631 Cambria-Wilson Rd. TI: 146.820 (107.2 Hz). Adm: \$8. [www.lockportara.us](http://www.lockportara.us)

## Convention and Hamfest Calendar (continued)

**North Dakota (Dunseith) — July 9 FHRSTV**  
9 AM – 4 PM. *Spr:* Souris Valley ARC. International Peace Gardens, 10939 Highway 281. *Tl:* 146.52 simplex, 444.500 (no tone). *Adm:* \$10. [www.k0ajw.com](http://www.k0ajw.com)

**Ohio (Mansfield) — July 9 FHRST**  
8 AM – 3 PM. *Spr:* Intercity ARC. Richland County Fairgrounds, 750 North Home Rd. *Tl:* 146.940 (71.9 Hz). *Adm:* \$5 per vehicle. [www.iarc.club](http://www.iarc.club)

**Ohio (Piketon) — May 28 RTV**  
8 AM – noon. *Spr:* Scioto Valley ARC. Pike County Fairgrounds, 311 Mill St. *Tl:* 146.850 (74.4 Hz). *Adm:* \$5. Email: [kd8chp@cqohio.com](mailto:kd8chp@cqohio.com)

**Pennsylvania (Erie) — July 9 FHRVT**  
8 AM – noon. *Spr:* Wattsburg Wireless Association. Greene Township Municipal Building Parking Lot, 9333 Tate Rd. *Tl:* 147.315 (186.2 Hz). *Adm:* Free. [www.wattsburg-wireless.us](http://www.wattsburg-wireless.us)

### ARRL PENNSYLVANIA STATE CONVENTION

**July 2, Harrisburg, Pennsylvania**

**DFHQRST**  
7 AM – noon. *Spr:* Harrisburg Radio Amateurs Club. Harrisburg Postal Picnic Grounds, 1500 Roberts Valley Rd. *Tl:* 147.075 (123 Hz). *Adm:* \$5. [www.w3uu.org](http://www.w3uu.org)

**Pennsylvania (Lime Ridge) — June 11 DFHRTV**  
7 AM – 1 PM. *Spr:* Columbia-Montour ARC. Lime Ridge Community Center, 6405 4th St. *Tl:* 147.225 (85.4 Hz). *Adm:* \$5. [www.qsl.net/cm-arc/hamfest.htm](http://www.qsl.net/cm-arc/hamfest.htm)

**Pennsylvania (Plains) — July 3 FHRVT**  
8 AM – noon. *Spr:* Murgas ARC. Polish American Veterans, 2 South Oak St. *Tl:* 146.610 (82.5 Hz). *Adm:* \$7, includes one tailgate space, spouse and children free. [www.hamfest.murgasarc.org](http://www.hamfest.murgasarc.org)

**Pennsylvania (Somerset) — July 10 FHRVT**  
7 AM – 1 PM. *Spr:* Somerset County ARC. Somerset County Technology Center, 281 Technology Dr. *Tl:* 147.195 (123.0 Hz). *Adm:* \$5. [www.k3smt.org](http://www.k3smt.org)

**South Dakota (Rapid City) — July 9 FHQST**  
8 AM – noon. *Spr:* Black Hills ARC. Robbinsdale Park, 641 E. Oakland St. *Tl:* 146.94 (146.2 Hz). *Adm:* Free. [www.w0blk.com](http://www.w0blk.com)

### ARRL TENNESSEE STATE CONVENTION

**June 18, Knoxville, Tennessee**

**DHQRSTV**  
8:30 AM – 4 PM. *Spr:* Radio Amateur Club of Knoxville. Kerbela Temple, 315 Mimosa Ave. *Tl:* 147.300 (100 Hz). *Adm:* \$8 Advance, \$10 door. [www.w4bbb.org](http://www.w4bbb.org)

**Texas (Schertz) — June 17 – 18 DFHQRSTV**  
8 AM – 5 PM. *Spr:* San Antonio Radio Club. Schertz Civic Center, 1400 Schertz Parkway Bldg. 5. *Tl:* 146.940 (179.9 Hz). *Adm:* \$10. [www.w5sc.org](http://www.w5sc.org)

**Texas (Texas City) — July 9 DFHQRSTV**  
9 AM – 1 PM. *Spr:* Tideland's Amateur Radio Society. Doyle Convention Center, 2010 5th Ave. N. *Tl:* 147.140 (167.9 Hz). *Adm:* \$4 Advance, \$5 door. [www.tidelands.org](http://www.tidelands.org)

**Wisconsin (Green Bay) — June 4 DFHRTV**  
8 AM – noon. *Spr:* Green Bay Mike and Key Club. Our Saviour Lutheran Church, 120 South Henry St. *Tl:* 147.120 (107.2 Hz). *Adm:* \$5. [www.k9eam.org](http://www.k9eam.org)

**Wisconsin (Kaukauna) — June 18 DFHR**  
7 AM – noon. *Spr:* Fox Cities ARC. Starlite Club, W2091 County Rd. J.J. *Tl:* 146.760 (100 Hz). *Adm:* \$6. [www.fcarc.club/sunshineswap.php](http://www.fcarc.club/sunshineswap.php)

**Wisconsin (Lyons) — June 11 DFHRTV**  
6 AM – 11 AM. *Spr:* Lakes Area ARC. Riverside Park, 1588 Mil St. *Tl:* 146.865 (127.3 Hz). *Adm:* Free. Email: [rfulton1@wi.rr.com](mailto:rfulton1@wi.rr.com)

**Wisconsin (Oak Creek) — July 9 DFHR**  
6:30 AM – 3:30 PM. *Spr:* South Milwaukee ARC. American Legion Post 434, 9327 S. Sheppard Ave. *Tl:* 146.910 (127.3 Hz). *Adm:* \$5. [www.wi9sm.org](http://www.wi9sm.org)

### To All Event Sponsors

Before making a final decision on a date for your event, you are encouraged to check the Hamfest and Convention Database ([www.arrl.org/hamfests-and-conventions-calendar](http://www.arrl.org/hamfests-and-conventions-calendar)) for events that may already be scheduled in your area on that date. You are also encouraged to register your event with HQ as far in advance as your planning permits. See [www.arrl.org/hamfest-convention-application](http://www.arrl.org/hamfest-convention-application) for an online registration form. Dates may be recorded up to 2 years in advance.

Events that are sanctioned by ARRL receive special benefits, including an announcement in these listings and online. Sanctioned conventions are also listed in *The ARRL Letter*. In addition, events receive donated ARRL prize certificates and handouts. Once the form has been submitted, your ARRL Director will decide whether to approve the date and provide ARRL sanction.

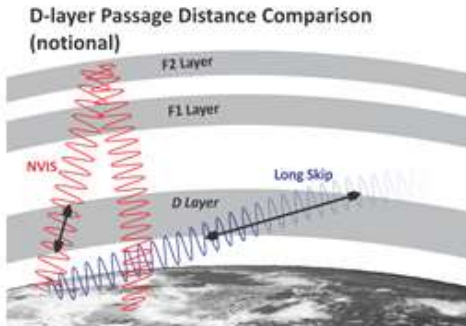
The deadline for receipt of items for this column is the **1st of the second month preceding publication date**. For example, your information must arrive at HQ by **July 1** to be listed in the **September** issue. Information in this column is accurate as of our deadline; contact the sponsor or check the sponsor's website for possible late changes, driving directions, and other event details. Please note that postal regulations prohibit mention in QST of games of chance, such as raffles or bingo.

Promoting your event is guaranteed to increase attendance. As an approved event sponsor, you are entitled to special discounted rates on QST display advertising and ARRL web banner advertising. Call ARRL's toll-free number at 1-800-243-7768, or email [ads@arrl.org](mailto:ads@arrl.org).



## NVIS Antenna Info

### CHAMELEON ANTENNA NEWSLETTER - MAY 2022!



#### THE NVIS ANTENNA FACT OR FICTION - Near Vertical Incidence Skywave (NVIS)

Many hams have asked me what an NVIS antenna is and how it works! First off it ISN'T a DX Antenna!

The use of these antennas seem to originate during WWII with the British. Most of the communications (radios) used by the British were HF. The US also used HF but had many radios in the VHF space.

NVIS is an ionospheric skip operating technique that directs the strongest signals from a station vertically, or upward, rather than toward the horizon. Signals propagating nearly vertically approach the ionosphere with steep incidence angles and may be bent back to earth with similarly small angles. The operational result is skip communications effective within a radius of a few hundred miles. The NVIS technique can help to bridge the communications gap between the local range of VHF/UHF repeater or simplex communications and the longer distance skip of low-to-the-horizon HF signal propagation.

The most reliable frequencies for NVIS communications are between 1.8 MHz and 8 MHz. Above 8 MHz, the probability of success begins to decrease, dropping to near zero at 30 MHz. Usable frequencies are dictated by local ionospheric conditions, which have a strong systematic dependence on geographical location.

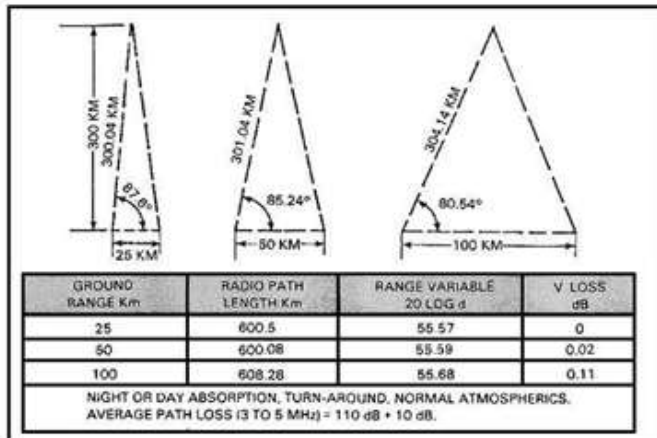


Figure M-3. Path length and incident angle (near-vertical incidence sky-wave mode).

(Continued on next page)

## NVIS Antenna Info (Continued)



**GREAT EDUCATION VIDEO ON NVIS OPERATION:**

[https://www.youtube.com/watch?v=k3IFj\\_Z5cLM](https://www.youtube.com/watch?v=k3IFj_Z5cLM)

**GREAT PORTABLE NVIS SETUP:**

<https://www.youtube.com/watch?v=KQJw9j-moEg>

The US Military has used the AS-2259 NVIS antenna system for years.

**GREAT INFORMATION SITE FOR USE OF NVIS ANTENNAS IN ARES SERVICE:**

[https://www.idahoares.info/tutorial\\_hf\\_nv\\_is\\_band\\_selection.php](https://www.idahoares.info/tutorial_hf_nv_is_band_selection.php)

**COMMS PREPPER VIDEO ON THE INSTALLATION OF THE AS-2259 NVIS ANTENNA**

<https://www.youtube.com/watch?v=aAshymGZ8Ww>

**WAVETALKERS**

<https://wavetalkers.com/>

WaveTalkers mission is to help you learn to become a more effective communicator in any medium.

Great video of the recent Baker to Vegas race using Chameleon Antenna very windy Death Valley conditions.

<https://www.youtube.com/watch?v=8LR3ZU9w03g>



**MARS (MILITARY AFFILIATE RADIO SYSTEM) What is it and what do they do?**

The Army Amateur Radio System was formed in 1925 to provide a pool of trained radio operators to augment the Signal Corps during mobilization in time of war and provide an extension of the Signal Corps' radio network to support civil authority with natural disaster relief efforts.

Purpose: To provide contingency communications.

**Military Auxiliary Radio System (MARS) - an overview by Ron KE2UK**

[https://www.youtube.com/watch?v=Ypx0iaVPe\\_8](https://www.youtube.com/watch?v=Ypx0iaVPe_8)

**MARS Military Affiliate Radio System -Global Communications Network 1970 film (Collins, vacuum tube)**

[https://www.youtube.com/watch?v=9o\\_PRKBF8Tw](https://www.youtube.com/watch?v=9o_PRKBF8Tw)

# ARRL News

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

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

## Second Century



# Advancing Our Noble Cause

Nearly 8 years ago, ARRL Headquarters staff took on the monumental task of hosting the 2014 ARRL Centennial Convention here in Hartford. By all accounts, it was a magnificent event, and to this day there are requests for us to consider doing another one! One of the highlights was the keynote address that then-First Vice President Rick Roderick, K5UR, made at the convention banquet. Now, Rick is a great speaker. He has the ability to rouse both excitement and emotion from an audience on all things amateur radio. And this speech was no exception.

Rick hit upon many of the themes of our hobby to underscore one major point: amateur radio operators, especially the active ones who are members of ARRL, are elite. Amateur radio is the greatest hobby in the world. One of the great things about it, as I showcased in last month's column, is its ability to create treasured memories. It is important for us to tell those stories to others, especially newer hams, so that they can understand the texture these contribute to our hobby.

Among those stories, and one I often speak about, is the unique vantage point hams have in the international community. In his 2014 speech, Rick said, "Anywhere in the world we hams go, there's an instant friendship regardless of your background, religious beliefs, or what country you're from. It doesn't matter — even in a country we aren't friendly with, it doesn't matter." And of course he's right. You can go pretty much anywhere in the world, and if you see a tower and an antenna behind a house, there's a great chance there's a couch for you to sleep on that night if you need it. This reinforces the trust and relationship we hams share.

The thing about Rick's speech that resonated most strongly with me is something we're going to check in on today. It was his list of "five things for every ham to do." He asked us to make this our annual checklist of what we must do to support the hobby, grow the hobby, and to look for ways to individually have an impact or give back to the hobby, to pay back the debt we owe to those who came before us that did the heavy lifting of building out amateur radio, and for the enrichment many of us have enjoyed through our lives and careers.

So it's time to check in. How have you done with Rick's list?

- 1. Go to a club meeting. Support your local club!
- 2. Help another ham in some way.
- 3. Get someone new into ham radio. Be a recruiter!

- 4. Get someone new to join ARRL; this is your association!
- 5. Create a sign for your shack that says Legacy, and put it where you can see it, every day.

The reality is, we all bear the responsibility to promote and protect this hobby that we hold so dear. The noble cause we undertake is manifested in many ways, from inspiring young people to learn about radio fundamentals and techniques, to developing and elevating our skills in dealing with modern emergency communications scenarios, to strengthening and growing our radio clubs where so much of the day-to-day work of amateur radio knowledge-sharing and practice takes place. And most importantly, as Rick said, "You can't be negative... we need to set a positive example...by getting into your clubs and into your community and talking up ham radio."

Each of us has a role with ensuring that amateur radio continues to evolve and grow. One of my favorite phrases is, "if you do what you did, you'll get what you've got." What does your legacy to the hobby look like? How have you made it a better place today than when you found it? As Rick points out, there are so many ways to accomplish that. For instance, each of us helping another ham, new or old, to get on the air will have tremendous impact!

As you look at Rick's list, adopt those challenges as your own. Remember to stay radio active. Be that club member, that ARRL member, that local ham who is taking on the noble cause of building and supporting amateur radio for now and for the years to come.

  
 David A. Minster, NA2AA  
 Chief Executive Officer

(Continued on next page)

## ARRL News (Continued)

Rick Lindquist, WW1ME, ww1me@arrl.org

### Happenings

# New FCC Application Fee Will Not Apply to Amateur Radio License Upgrades

The Federal Communications Commission (FCC) staff has clarified in response to an ARRL request that the new \$35 application fee will not apply to most license modifications, including those to upgrade an amateur radio licensee's operator class and changes to club station trustees. The FCC staff explained that the new fees will apply only to applications for a new license, renewal, rule waiver, or a new vanity call sign. The new fees took effect on April 19, 2022.

"We are pleased that the FCC will not charge licensees the FCC application fee for license upgrade applications," said ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM. "While applicants for a new license will need to pay the \$35 FCC application fee, there will be no FCC charge for future upgrades and administrative updates, such as a change of mailing or email address. Most current licensees, therefore, will not be



charged the new FCC application fee until they renew their license or apply for a new vanity call sign."

Further information and instructions about the FCC application fee are available from the ARRL VEC® at [www.arrl.org/fcc-application-fee](http://www.arrl.org/fcc-application-fee).

## Axiom Private Astronaut Mission Crew Conducted ARISS School Contacts

Previously announced by the Amateur Radio on the International Space Station (ARISS-USA), two crew members flew on Axiom Mission-1 (Ax-1) — the first private astronaut mission to the International Space Station (ISS) — and carried out amateur radio contacts with schools while in space. The Ax-1 mission launched from Florida on April 8 via a SpaceX Falcon 9 launcher, and the crew spent 10 days in orbit on board the ISS. Ax-1 crew members Mark Pathy, KO4WFH, from Canada, and Eytan Stibbe, 4Z9SPC, from Israel, carried out the contacts. ARISS trained both crew members in the use of the ARISS radio system in the ISS Columbus module.



SpaceX and Axiom Space personnel about to begin communications checks with the four crew members of the Ax-1 mission aboard their capsule, Endeavour. [Photo courtesy of [www.space.com](http://www.space.com)]

As part of the "Rakia" mission, Stibbe used ARISS facilities on board the ISS to answer questions from middle school and high school students in Israel. In the weeks

preceding the launch, the students learned a bit about the theory and practice of radio communication.

Pathy, whose personal mission theme is "caring for people and the planet," connected with elementary and high schoolers across Canada from the ISS. Pathy

(Continued on next page)

**ARRL News (Continued)**

Rick Palm, K1CE, k1ce@arrl.net

**Public Service**

# Safety Tips for ARRL Field Day and Hurricane Season

June is an important month for emergency communications exercises and preparedness. It also marks the start of the Atlantic hurricane season. The most well-known EmComm exercise, ARRL Field Day (FD), will take place June 26 – 27, 2022. This event prompts operators to test and prepare their gear for service, pack it into hard-shell cases, and transport it all to the event/exercise site.

**Safety First**

FD sites must be assessed for potential safety issues prior to setting up for the event. As with any outdoor activity that involves electrical power, there are serious risks to operators, as well as the visiting public. The first action of any Field Day planning committee should be to appoint a Safety Officer (SO). Even though a 100-point bonus may be earned by having an SO, one should be appointed for the primary reason of responsibility. The SO ensures that the safety checklist promulgated in the ARRL Field Day Rules ([www.arrl.org/field-day-rules](http://www.arrl.org/field-day-rules)) is completed and verified by the FD planning and administration committees.

Critical safety tips include: properly storing fuel for generators; having a fire extinguisher readily accessible; having an AED and first-aid kit with first-aid-, CPR-, and AED-trained individuals on site from start to finish; monitoring National Weather Service (NWS) radios for alerts of severe weather; properly installing and marking tent stakes; securing and marking temporary antenna structures; securing your site from tripping hazards such as cables, wires, ropes, and other equipment; properly



Eliot Mayer, W1MJ, operates ARRL Field Day at station K1CE, on emergency power. [Rick Palm, K1CE, photo]

grounding equipment; ensuring quick access to a means of contact with police/firefighters/EMTs, and monitoring FD participants and the public for hydration and potential medical issues.

Every FD crew should have a registered nurse (RN) and/or EMT present from start to finish. At the end of the event, a sweep of the site should be conducted for any persons that might need medical assistance.

**Pneumatic Mast Extenders**

A major hazard is the use of pneumatic or mechanical mast extenders. Participants in Field Day and other field exercises, as well as operators deployed to disaster areas, sometimes use 50-foot pneumatic masts, likely donated by a TV or radio broadcaster. Historically, broadcasters used microwave and UHF links to send video and audio from a "live truck" to

the studio. With the wide coverage of the internet via 4G and 5G cell towers, many of these costly private systems have been deactivated or disposed of. Nowadays, it's common for TV trucks to use a system that bonds several 4G access devices together to obtain a usable bit rate.

In the past, fatalities have occurred as the result of these masts being run up into power lines. Now, there are devices that sound an alarm when the tip of the mast senses a strong 60 Hz field (<https://sigalarminc.com/hazard-analysis-electronic-news-gathering-van-into-power-lines>). If you choose to use a mechanical mast extender and don't have one of the above-mentioned devices, be sure to check your surroundings and practice common sense before raising the mast.

Another possible solution is installing two widely separated switches in the power path to the air pump that raises the mast. This requires having two people to raise a mast. [Thanks to Dale Lamm, NX8J, Director of Engineering for station WHBC AM-FM, for this safety tip. — Ed.]

There have been accidents reported during Field Day operations where radio amateurs were injured or killed because of carelessness and the desire to get set up as quickly as possible. Donated pneumatic masts (and all masts and antennas) come with a special responsibility to be erected and used safely.

**Advantages of EOC Class F Operators**

Consider operating Field Day this year as a Class F Emergency Opera-

(Continued on next page)

## ARRL News (Continued) (Safety Tips continued)

tions Center (EOC) station, which the ARRL Field Day rules define as: "An amateur radio station at an established EOC activated by a club or non-club group. Class F operation takes place at an established EOC site. Stations can use equipment and antennas temporarily or permanently installed at the EOC for the event."

The EOC Class F category presents an opportunity to demonstrate your group's (and amateur radio's) capabilities to the professional emergency managers and staff that you would likely be serving in a major disaster situation, and conversely, it gives your members an opportunity to learn their way around the EOC facility, meet its staff, and understand its culture.

### Field Day and Potential Real-World Situations

In his November 2009 *QST* article, "Electromagnetic Pulse and Its Implications for EmComm," H. Robert Schroeder, N2HX, discussed the harmful effects of nuclear electromagnetic pulse (EMP) on electronic equipment and actions that can be taken to mitigate the damage, many of which radio amateurs can perform on their own equipment. Schroeder said: "Perhaps the best protection is not to connect anything to sensitive equipment until after the EMP (or lightning, for that matter) threat has passed. By keeping the equipment in a shielded and protected environment and removing all power and signal cables, the equipment is likely to survive either event."

Of course, equipment with disconnected cabling can't be operated. A possible solution is to use backup equipment until the threat has passed, and the primary gear can be reapplied. Schroeder explained that equipment that employs vacuum tubes is less susceptible to these threats than solid-state gear.

While it's hopefully common practice on FD sites to disconnect cables from antennas and radios while under a threat of lightning, take the opportunity to educate operators on the action of equipment disconnection for the threat of EMP. If there isn't a threat, simulate an EMP event.

### Notes for Hurricane Season 2022

Colorado State University (CSU) released its first qualitative discussion for the 2022 Atlantic hurricane season on December 9, 2021, saying that the chances of an El Niño occurring appear relatively low (about 20 – 25%). As this column is being written, CSU's first formal forecast is set to be released on April 7.

Regardless of predictions, now is the time to prepare your families and homes, as well as prepare your stations, for a hurricane situation. Remember, it's the operator's duty to first take care of the family and the home before helping neighbors. This should be done before considering any plans for actions or deployments with the Amateur Radio Emergency Service® (ARES®) or any other amateur EmComm program.

Hold a Community Emergency Response Team (CERT) planning meeting in your neighborhood. A CERT ([www.ready.gov/cert](http://www.ready.gov/cert)) is trained to conduct basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Radio amateurs make the perfect complement to a CERT with radio communications, as communications is the first line of emergency support function. Now is also the time to familiarize yourself with your local and regional hurricane net frequencies, both VHF and HF.

## ARRL News (Continued)

# Making Field Day Exciting for New Hams and Non-Hams

*ARRL Field Day is a great opportunity to reach out to people who are unfamiliar with ham radio. If you want to use Field Day as an outreach tool, but are unsure of where to start, here are some ideas.*

**Get a GOTA Station.** GOTA stands for “Get on the Air,” and it means just that. It gives people who are unlicensed (or who have been licensed for less than a year) a chance at working an HF station — and they’re almost guaranteed to make contacts. Field Day rules allow for up to 1,000 contacts on a GOTA station, and it’s an easy way to get an extra transmitter for your category.

A well-run GOTA station can provide a “home” for people who have an interest in amateur radio, not only by providing a way for them to experience operating a station, but also by providing points of contact for potential hams, as well as hams who are currently unconnected to your club.

**Put the Word Out.** Seek out someone at your local newspaper and your local television station who will do an interview and run a story about Field Day. Be sure to make it clear that everyone is invited to come experience amateur radio and take part in the fun.

Search various websites for hams in your area, and send a note to invite them. A large number of hams are licensed, but inactive — often because they just don’t know where to go next. That note from you could be the motivation they need to get plugged in.

Make flyers about your operation and post them in your local library and in building lobbies at any colleges that are local to you. Several fields of study on college campuses pair well with amateur radio. The key is letting those programs know you’re there.



Field Day can be fun for hams of all ages and skill levels, as Morgan Bailey, NSØR, and Delaney Bailey, KFØFUP, clearly show.

Find someone in your club who is adept at the various social media platforms and start making posts about Field Day. Hams today follow everything from Facebook to TikTok.

**Invite Young People.** This will take a little legwork. Schedule appointments to speak to the principal of each local school. Bring copies of your flyers, and explain to the principal what Field Day is, and how it benefits kids. Bring along information about how amateur radio benefits students who get involved — information about ARRL Foundation scholarship winners will offer great talking points. Talk about the hands-on learning that amateur radio offers, and how it relates to STEM or STEAM education programs in school.

Have someone designated to engage kids who show up at your Field Day operation. Get them on the air. Have digital modes running so they can experience the connection between technology they are familiar with, and amateur radio. Before they leave, give them information about your club, and invite them to a meeting. Consider having license study materials available for them to borrow.

Kids are going to be kids, so let them. They may ask a thousand questions. Whenever possible, demonstrate the answer on the radio. Even better, allow the child to actually experience the learning on the air.

**Go Hands-On with Kits.** Consider having a station where simple kits can be built. Don’t just schedule a certain time to build one kit — make the station constantly available, and set up a schedule of experienced hams to help run it. That way, no matter when visitors show up, there is something happening to keep them interested and engaged. Keep the kits inexpensive, so people can keep the kit they build, to serve as a reminder of what they accomplished — and possibly be the nudge they need to show up to a club meeting and begin their journey in amateur radio.

*If you need more information about how to reach out to and engage youth and new hams, contact ARRL Education & Learning Manager Steve Goodgame, KSATA, at [sgoodgame@arrl.org](mailto:sgoodgame@arrl.org).*

PHOTO COURTESY OF KSØJA

**ARRL News** (Continued)

# SIX TIPS FOR FIELD DAY SUCCESS

- 1 BE SAFE**

Safety should always be your first priority. See the Field Day Safety page in this guide for pointers and resources to share with everyone participating in your Field Day event.
- 2 HAVE A PLAN**

Having a plan reduces frustration and increases the fun. Decide well in advance the number of stations you will have, and what category you will be operating, and get commitments from people who will be in leadership roles, including people who will help with setting up and tearing down the station. You don't want any surprises at setup time, so schedule a time to check out your operating site ahead of the event.
- 3 ASSIGN TASKS**

It's said that many hands make light work, so give everyone something to do in addition to operating. Remember to assign some Field Day mentors — the event is a great opportunity for new hams to learn how to operate, and it's also a chance to give them practical experience in troubleshooting and problem-solving, all with a more experienced ham by their side.
- 4 SCHEDULE OPERATORS**

Your club's station should run for as many hours as possible, including at night, to maximize how many QSOs you can put in the log. Scheduling operators for specific time slots during the event makes this happen!
- 5 BONUS POINTS**

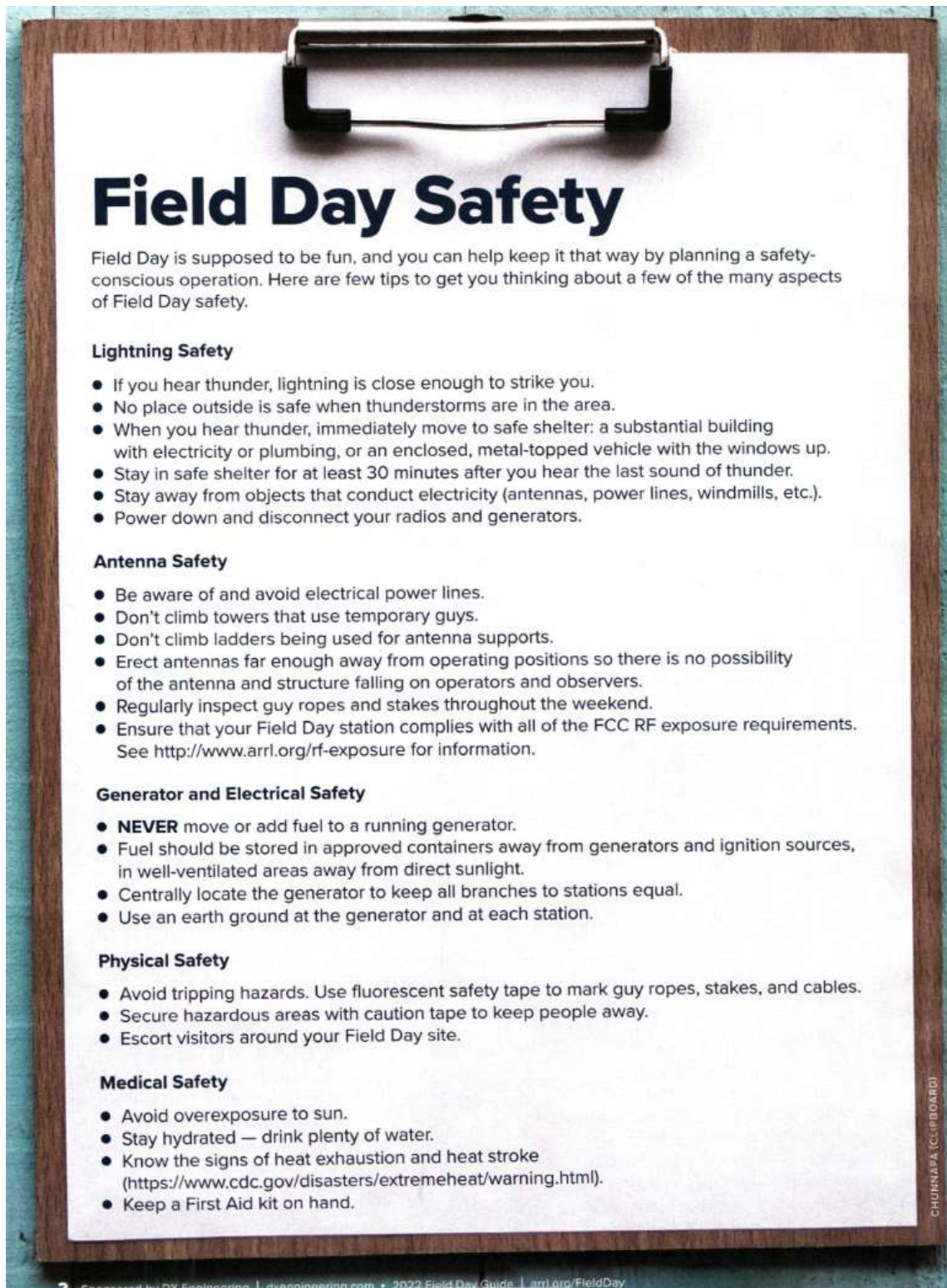
Getting bonus points will increase your Field Day score. Look at the list of bonus point activities in the rules (and in this guide) to decide which challenges your club wants to take on, then assign someone to keep track of any proof that's required to claim bonus points.
- 6 SUBMIT YOUR SCORE**

Collect the log information and bonus point proof and submit your club's Field Day entry through the web app at <https://field-day.arrl.org/fdentry.php>. Remember — if you have club members operating at home, they can submit their individual scores toward the club's aggregate score. Field Day entries are due by July 26, 2022.

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## ARRL News (Continued)



# Field Day Safety

Field Day is supposed to be fun, and you can help keep it that way by planning a safety-conscious operation. Here are few tips to get you thinking about a few of the many aspects of Field Day safety.

### Lightning Safety

- If you hear thunder, lightning is close enough to strike you.
- No place outside is safe when thunderstorms are in the area.
- When you hear thunder, immediately move to safe shelter: a substantial building with electricity or plumbing, or an enclosed, metal-topped vehicle with the windows up.
- Stay in safe shelter for at least 30 minutes after you hear the last sound of thunder.
- Stay away from objects that conduct electricity (antennas, power lines, windmills, etc.).
- Power down and disconnect your radios and generators.

### Antenna Safety

- Be aware of and avoid electrical power lines.
- Don't climb towers that use temporary guys.
- Don't climb ladders being used for antenna supports.
- Erect antennas far enough away from operating positions so there is no possibility of the antenna and structure falling on operators and observers.
- Regularly inspect guy ropes and stakes throughout the weekend.
- Ensure that your Field Day station complies with all of the FCC RF exposure requirements. See <http://www.arrl.org/rf-exposure> for information.

### Generator and Electrical Safety

- **NEVER** move or add fuel to a running generator.
- Fuel should be stored in approved containers away from generators and ignition sources, in well-ventilated areas away from direct sunlight.
- Centrally locate the generator to keep all branches to stations equal.
- Use an earth ground at the generator and at each station.

### Physical Safety

- Avoid tripping hazards. Use fluorescent safety tape to mark guy ropes, stakes, and cables.
- Secure hazardous areas with caution tape to keep people away.
- Escort visitors around your Field Day site.

### Medical Safety

- Avoid overexposure to sun.
- Stay hydrated — drink plenty of water.
- Know the signs of heat exhaustion and heat stroke (<https://www.cdc.gov/disasters/extremeheat/warning.html>).
- Keep a First Aid kit on hand.

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CHUNAPA (C) (BOARD)

(Continued on next page)

ARRL News (Continued)

# BONUS POINTS ADD UP!

Use this Bonus Points Calculator to keep track of your Field Day Bonus Points (see Rule 7.3 for details). All bonus points require submission of proof and will be verified before being added to your score. Maximum bonus points are listed unless otherwise noted.

POINTS	ACTIVITY	AVAILABLE CLASSES
	<b>100% Emergency Power.</b> 100 bonus points per transmitter; max. 20 transmitters, max. 2,000 points. Bonus stations (such as the GOTA station and satellite station) do not count toward determining the number of transmitters for the class and do not qualify for transmitter bonus points.	A, B, C, E, and F
	<b>Media Publicity.</b> 100 bonus points. Bonus points may be earned for obtaining publicity from the local media. A copy of the media publicity received (newspaper article, news website post, etc.) must be submitted to claim the points.	All
	<b>Set Up in Public Place.</b> 100 bonus points.	A, B, and F
	<b>Public Information Table.</b> 100 bonus points. A copy of a visitor log, copies of club handouts, or photos are sufficient evidence for claiming this bonus.	A, B, and F
	<b>Message to ARRL Section Manager or Section Emergency Coordinator.</b> 100 bonus points. See Rule 7.3.5 for message format. This message is separate from the messages handled in Rule 7.3.6 and may not be claimed for bonus points under that rule.	All
	<b>W1AW Field Day Message.</b> 100 bonus points. Copy, via amateur radio, the special Field Day bulletin transmitted by W1AW or K6KPH and include an accurate copy of the message with your Field Day entry.	All
	<b>Message Handling NTS/ICS-213.</b> 0 to 100 points maximum, calculated by taking the Number of Messages (max. 10 messages): _____ × 10 bonus points for each formal message originated, relayed, or received and delivered during the Field Day period. Copies of each message must be included with the Field Day entry. The message under Rule 7.3.5 does not count. All messages claimed for bonus points must leave or enter the Field Day operation via amateur radio RF.	All
	<b>A Satellite QSO.</b> 100 bonus points. Satellite QSOs also count for regular QSO credit. List these contacts separately on the summary sheet as a separate "band." The QSO must be between two Earth stations through a satellite. Stations are limited to one (1) completed QSO on any single channel FM satellite.	A, B, and F
	<b>Natural Power QSOs.</b> 100 bonus points. Complete at least five QSOs without using power from commercial mains or petroleum-driven generator. A separate list of natural power QSOs should be submitted with your entry.	A, B, E, and F
	<b>Site Visit by Invited Elected Official.</b> 100 bonus points.	All
	<b>Site Visit by Invited Served Agency Official.</b> 100 bonus points. Visits from ARRL officials (SM, SEC, DEC, EC, etc.) do not qualify for this bonus.	All
	<b>Educational Activity.</b> 100 bonus points.	A, D, E & F. See website for D & E rules
	<b>Youth Participation.</b> <input type="checkbox"/> For Class A, C, D, E, or F groups: 20 bonus points per participant age 18 or younger that completes at least one QSO; max. 100 points. <input type="checkbox"/> For a one-person Class B station: 20 bonus points if the operator is age 18 or younger; max. 20 points. <input type="checkbox"/> For a two-person Class B station: 20 bonus points for each operator age 18 or younger; max. 40 points.	All (see specific points per class)
	<b>GOTA Bonus.</b> See Rule 7.3.13 for the bonus point breakdown.	A and F
	<b>Use the Field Day Entry Web App.</b> 50 bonus points. Submit the entry using the web app at <a href="https://field-day.arrl.org/fieldentry.php">https://field-day.arrl.org/fieldentry.php</a> .	All
	<b>Safety Officer Bonus.</b> 100 bonus points. Include a statement with the supporting documentation for your entry, verifying that a designated Safety Officer completed the ARRL Field Day Safety Check List.	A
	<b>Social Media Bonus.</b> 100 bonus points. Promote your Field Day activation to the general public via social media (Facebook, Twitter, Instagram, etc.). Individual participants do not qualify for this bonus. Club websites do not qualify as social media. Available to all classes who welcome visitors to their operation.	All
	<b>TOTAL BONUS POINTS CLAIMED</b>	

(Continued on next page)

## ARRL News (Continued)

# How to Fine-Tune EmComm Skills During Field Day

Since the 1930s, Field Day has been an event to test the field preparedness and emergency communications (EmComm) abilities of the amateur radio community. Over the years, it has turned into the largest on-the-air event on the ham calendar. Operators look forward to testing their skills and showing the public what amateur radio can do.

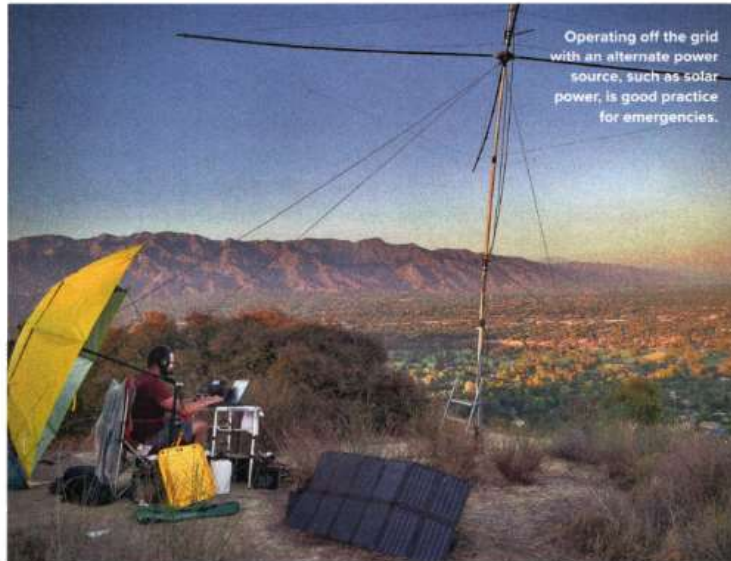
Field Day's traditional EmComm mission has diminished somewhat in recent years to be almost secondary in focus. In many cases, Field Day operation mostly emphasizes contesting, points earned, and standings among stations in each operating class. If your club or group has chosen to spend the weekend having fun in contest mode, here are some ways you can incorporate EmComm activities — and rack up some points in the process.

### Operate 100% off the grid.

Hams who volunteered their time in Puerto Rico in the aftermath of Hurricanes Florence and Maria quickly realized that alternative power was the only way to get things done. Don't just rely on generators. Utilize solar, wind power, and batteries where practical. If you want a novel way to charge batteries, rig up a human-powered generator using a stationary bike.

### Work in partnership with

**emergency agencies.** Operating Class F encourages ARES, RACES, and local radio club groups to develop and maintain working relationships with



Operating off the grid with an alternate power source, such as solar power, is good practice for emergencies.

their Emergency Operations Center (EOC) and to practice their existing emergency plans. EOCs include federal, state, county, and city agencies or administrative entities, and chapters of national and international service agencies such as the American Red Cross and Salvation Army.

### Practice message handling

**skills.** Copy the ARRL Field Day Bulletin, send a message to your Section Manager or SEC, and 10 other messages through traffic nets, packet, or with point-to-point communications. There's an easy 300 points for the taking.

### Incorporate VHF operation.

Many Field Day operations don't include VHF operation, which is a regular part of local communications networks during storms and local disasters. Class A and F stations can

have a "free" VHF station. Try operating 6- or 2-meter simplex to earn extra QSO points, test your simplex range, or create a local handheld net for coordinating Field Day setup.

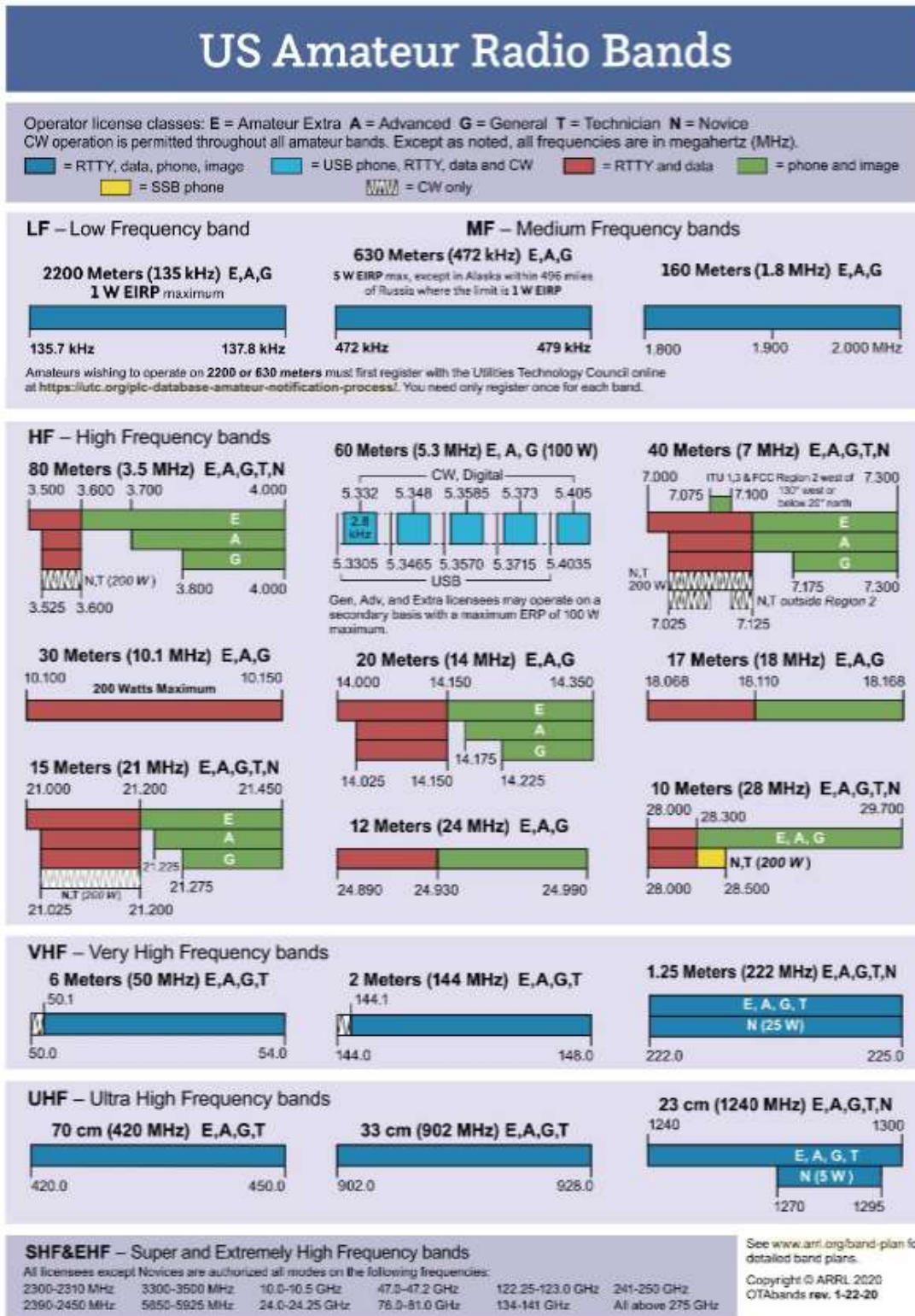
### Make your Field Day meeting

**a tabletop exercise.** Discuss your roles and responsibilities in setting up your Field Day installation as if it was a real emergency deployment. It could be in conjunction with an existing plan in cooperation with ARES/RACES or your EOC. If you really want to make this authentic, have some volunteers come to Field Day with their go-kits in preparation to stay for the full 24 hours.

*This article originally appeared on On All Bands, An Amateur Radio Blog by DX Engineering. Reprinted with permission of DX Engineering.*

MATTHEW BENNETT, AC6X

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 <sup>45</sup> PM	7 <sup>45</sup> PM	8 <sup>45</sup> PM	9 <sup>45</sup> 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.arri.org/w1aw](http://www.arri.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 a reference copy of your current FCC amateur license. 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 2022, Headquarters and W1AW are closed on New Year's Day (observed December 31, 2021), Presidents Day (February 21), Memorial Day (May 30), Independence Day (July 4), Labor Day (September 5), Veterans Day (November 11), Thanksgiving and the following day (November 24 and 25), and Christmas Day (observed December 26).

