



Meeting News:

The April 8th general membership meeting was held at the Dudley House and on Zoom. Our presenter was Pedro K6MIL who discussed "Testing and Results using the 2M/440+ with the 'CompacCounterpoise' antenna by Dr. Jack Nilsson, Inventor - Antennas, EM & Energy COMPACtenna.com". Jeremy KN6JMD ensured that all Zoom attendees were able to see and hear Pedro's presentation as well as the overall meeting. Pedro did an outstanding job discussing the nuances of the antenna.

Our next club meeting is scheduled for May 13th and tentatively scheduled is Denney Pistole N6HV, our equipment manager and FD co-chairperson, who will discuss the status of our "K6MEP FD Preparation Activities". FD is June 24 (setup), 25 and 26 (takedown after 11am). Visitors are always welcome to attend our meetings. With our new meeting format, the meeting starts promptly at 19:00. After call to order, welcoming members and guests, we make our announcements. Then we ask our committee members to present their status. Following that is any new business. We take a break to get the presentation set up and serve refreshments and have some social time. After the presentation is complete and everyone has asked and received answers to their questions, we adjourn the meeting. 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.

The Inside Story

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Message from the President

The Prez Sez,

Field Day (FD) is our theme for this month's Keyer

Our FD Preparation Picnic is scheduled for May 7, 2022

I encourage all members to respond to the groups.io poll about the May 7th club picnic, scheduled to begin at 10:00 AM and complete by 4:00 PM, being held at the Dudley House, which also will be coupled with preparation for FD rig testing. I am looking forward to seeing you at the picnic! **FD is June 24 (setup) 25, and 26 (takedown after 11am).**

What are our Club's Goals for this FD?

- Improve overall score?
- Maximize QSOs?
- Reduce set-up time or complexity?
- Try new antennas / gear / modes?
- Increase visibility with the public?
- Increase operational time for newer hams?
- HAVE FUN! (mandatory)

To meet our goals, there are many high-level decisions that need to be made:

Strategic Decisions

- Set up during FD period or in advance?
- Location - select a site (Oxnard College)?
- Number of transmitters (category)?
- Power level (maximum PEP output limited to 100 watts) and power sources (generator, battery and solar)

(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	Open	
Program Manager	Clem Alberts	KM6OKZ
Equipment Mgr.	Denney Pistole	N6HV
Refreshments	Linda Shank	
Facilities	Richard Abbey	WB6AEW
Keyer Editor	Robert Shank	KM6RSS
Webmaster	Robert Shank	KM6RSS
Domain	Phil Cohen	WA6BUZ
Membership	Open	Please volunteer
License Trustee	Dave Schmidt	AI6VX
Monday Night Net	Open	Please volunteer
QSL Manager	Ben Holmes	K6QV
Safety Officer	Mark Vodon	KI6PTE
PIO/Trivia	Dana Wentling	KG6WXE
Columnist	Reese West	KQ6TT
Columnist	Steve Noll	WA6EJO
Columnist	Paul Strauss	WD6EBY
Columnist	Denney Pistole	N6HV

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.

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)

- Antenna approach – gain vs. simplicity
- Time operating vs. time mentoring

Potential Benefits from FD

- Find out what works in the field and who can bring it.
- Communicating with adjacent clubs and Sections under difficult radio conditions.
- Practice operating with field conditions and emergency power.
- Organized planning and execution of a sustained effort -- good for Public Service Events planning & coordination and possibly for fitting into Served Agency emergency planning.
- Recruit hams for local club or ARES team.
- Invite our college or high school family members that may be staying over the summer to join our FD.
- Cross-train hams on each-others' equipment.
- Invite ARRL Section / Division officers to visit our FD site.
- Invite (potential) Served Agency & or Government officials to visit our FD site, good for ARES and bonus points.
- Invite the media to promote amateur radio.
- Visit other clubs' FD in our area.

During our May 13th meeting, Denney N6HV, a member of Clem's KM6OKZ's FD committee, will be presenting an update of the many tasks they have been working on:

- Oxnard College Duck pond usage application/approval.
- Liability Insurance Certificate
- Expenses/disbursements requiring Board approval
- Security (Overnight volunteers), Health and Safety (Officer)
- Porta Potty & Wash Station
- FD Equipment (club-owned and private)
 - Antennas, coax, masts, tripods, filters, etc.)
 - Tables, chairs, pop-ups, tents, etc.
- Power (Generator, Solar, batteries)
- Logging software, network and server
- WiFi
- Food and Preparation (Mark KI6YLH?)
- Mark's V's RV availability? (it is available)
- Band Captain - Who works what frequencies, what antennas will be deployed, etc.
- ARRL FD Contact Registration (on ARRL website)
- Social Media Outreach (Facebook, Twitter, Instagram, etc.).
- Public - City Official. e.g. Fire Department Notifications (Extra Points)
- GOTA station (Continued on next page)

Message from the President (Continued)

- FD Youth Participation
- Public Information Table
- Message Handling: 10 points for each formal message originated, relayed or received and delivered during the FD period, up to a maximum of 100 points (ten messages).
- Satellite QSO
- FD Radiogram (A formal message to the ARRL Section Manager or Section Emergency Coordinator by your group from its site)
- W1AW Bulletin
- Educational activity bonus
- KVTA Public Radio Announcement

We will also be under new ARRL rules:

The maximum PEP output for a transmitter used by anyone submitting a FD log will be 100 W. Class D (Home) stations will continue to be able to earn points for contacts with other Class D stations.

In the aggregate scoring plan, the scores of individual stations are combined under the score of a single club.

Posting the details of your upcoming or ongoing FD activity, or your FD results, on a club or news media site, on Facebook, or via Twitter and Instagram would meet the bonus criteria. Photos and videos are encouraged as part of media posts.

I hope that everyone who wants to participate in FD will contact Clem or Denney and offer to help.

73,

Robert Shank KM6RSS

President, VCARC



Minutes of the April 3rd, 2022, VCARC Board Meeting

MEETING LOCATION: Zoom

TIME: 19:00 to 20:30

BOARD ATTENDEES:

OFFICE	LAST	FIRST	CALL SIGN	PRESENT
PRESIDENT	SHANK	ROBERT	KM6RSS	Y
VP	ALBERTS	CLEMENT	KM6OKZ	Y
SECRETARY	COHEN	PHIL	WA6BUZ	N
TREASURER	GARTMAN	JOHN	W6JPG	Y
BOARD	NOLL	STEVE	WA6EJO	Y
BOARD	SCHMIDT	DAVE	A16VX	Y
BOARD	SWANEY	MARK	KD6ASL	Y

Committee Chair invitees (Denney N6HV, Mark Vodon KI6PTE, Jeremy KN6JMD, Tim KN6JGB, Burt KA6BJA, Pedro K6MIL)

General Member Attendees: (Denney N6HV, Mark Vodon KI6PTE, Jeremy KN6JMD, Tim KN6JGB, Burt KA6BJA, Pedro K6MIL)

CALL TO ORDER 19:00

Opened the meeting at 19:00 and board attendance was 6 out of a possible 7 members present.

Robert KM6RSS welcomed all to the board meeting and ask for general comments.

Minutes: (Robert KM6RSS; Phil WA6BUZ wasn't present)

- Minutes of the March 6th board meeting was accepted.
- Minutes of the March 11th meeting was accepted.

Officers Report: (John W6JPG)

- Treasurer: The treasurer provided the balances to the board.

Committee Reports:

- Members Health and Safety (Mark KI6PTE)
 - Discussion about fan(s) tabled. Pedro will bring two air purifiers to the meeting.
 - First Aid kits
 - Mark V. to bring the First Aid kit to all club physical meetings.
- Youth Committee (Tim KN6JGB).
 - Tim didn't attend; no report.

Special Orders:

- Inventory (Denney N6HV)
(Continued on next page)

Minutes of the April 3rd, 2022, VCARC Board Meeting (Continued)

- Report from Denney N6HV on club items sold and amount collected. More than 10 items were sold and more than \$300 was collected.

Unfinished Business:

- Accounting Process Discussion (John W6JPG)
 - Update on review of VCCU categories and assignment of transactions to those categories. The proposed budget was discussed and passed to committee.
 - A Finance Committee comprised of Dave, Mark S. and John was formed. John will set the date and time of the first meeting to review and refine the proposed budget to include approved categories.
 - A donation of \$1,000 for PVTAC's request of assistance with the county repeater costs was approved by the majority of the board. John to issue a check.
- Meeting Location that Better Meets Our Needs (Pedro K6MIL)
 - Waiting to hear back from Boys and Girls Club
 - Mark S. will contact Oxnard and Camarillo Airports to see if they are available

New Business:

- ARRL
 - Dave will fill the positions of ARRL liaison and Burt will fill the position of ACS/ARES liaison. Each will contact the Santa Barbara section manager and Ventura County Radio Officer, respectively, on a monthly basis and report any news.
- Picnic
 - Mark S volunteered to become the chairman of the picnic committee and will create a poll asking members what they want to bring for the picnic on May 7th. He is looking at both Marina Park and the Dudley House if Burt is able to use the grassy space for antenna testing.

Announcements:

- Our next club meeting is scheduled for April 8th at the Dudley House. Pedro Morillas K6MIL will present "Testing, Results and Opinions regarding the 2M/440+ 'CompacCounterpoise' antenna by Dr. Jack Nilsson, Inventor - Antennas, EM & Energy COMPACTenna.com".

Adjournment:

- The meeting was adjourned at 20:30 by unanimous vote of the board.

Minutes of the April 8th, 2022, VCARC General Membership Meeting

GENERAL MEMBERSHIP MEETING (19:00)

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

ATTENDANCE: 23 attending in person and 1 attending on Zoom.

CALL TO ORDER (AT 19:31)

President Robert KM6RSS welcomed everyone and Mark S KD6ASL led us in the Flag salute. Afterwards, Robert asked for any member who brought a guest to introduce them. Bob Brodie introduced Rich Deamer, who lives on Via Celito, and is interested in Amateur Radio.

Announcements:

- Bruce Schubert KM6ZJK has passed away. He had been a member of our club since June of 2019. His intellect and kindness will be missed. A celebration of Bruce's life will be held at 11 AM on Tuesday, April 19th at Coastline Bible Church, 426 S. Mills Rd, Ventura CA. In lieu of flowers, please make a donation to the Ventura County Library READ Adult Literacy Program.
- Health and Safety. We used two air filtration systems (thanks to Pedro K6MIL).
- CVARC is holding a Ham radio licensing test at East Valley Sheriff's Station on April 10th.
- Picnic: May 7th at the Dudley House.
- Board Meeting May 8th
- Next General Membership Meeting: The club's next meeting date May 13th .Tentatively scheduled is Clement Alberts KM6OKZ, our program chairperson, who will lead our "K6MEP Field Day Preparation Activities". Field Day is June 24 (setup) 25, and 26 (takedown after 11am).
- Calendar: See groups.io or K6MEP for an updated Calendar.

Committee Reports

- K6MEP Monday Night Contest: Robert provided the status of the new K6MEP Monday Night Contest 14 weeks, 219 check-ins with 24 visitors and a 15.64 average.
- Club's Inventory: Denney N6HV stated sales at TRW of the club's inventory; \$350 made on 10+ items.
- Health and Safety: Mark Vodon KI6PTE thanked Pedro for bringing the air cleaners.
- Youth Outreach: Tim KN6JGB updated the club on our youth outreach. Science fair is to be held virtually this year.
- Picnic: Mark KD6ASL discussed the club's May 7th picnic at the Dudley House.
- Meeting Venue (Pedro K6MIL): Pedro provided an update on the search; waiting on Boys & Girls club.
- ARRL Liaison (Dave AI6VX): Dave discussed contacting John Kitchens NS6X, SB section manager.
- ACS/ARES Liaison (Burt KA6BJA) [Mountains to Beach]: Burt discussed his role and Mountains to Beach.

(Continued on next page)

Minutes of the April 8th, 2022, VCARC General Membership Meeting (Continued)

- Club Committees: The club needs the following committees to assist with club business and would like volunteers for Membership, Monday Night Net and DecemberFest selection (December 9th)

New Business:

- Denney suggested a contest for creating a new club membership card. He will send a message in groups.io.
- Bob Brodie mentioned a repeater at Rich Deamer’s house that is using the old Area 6 frequency.

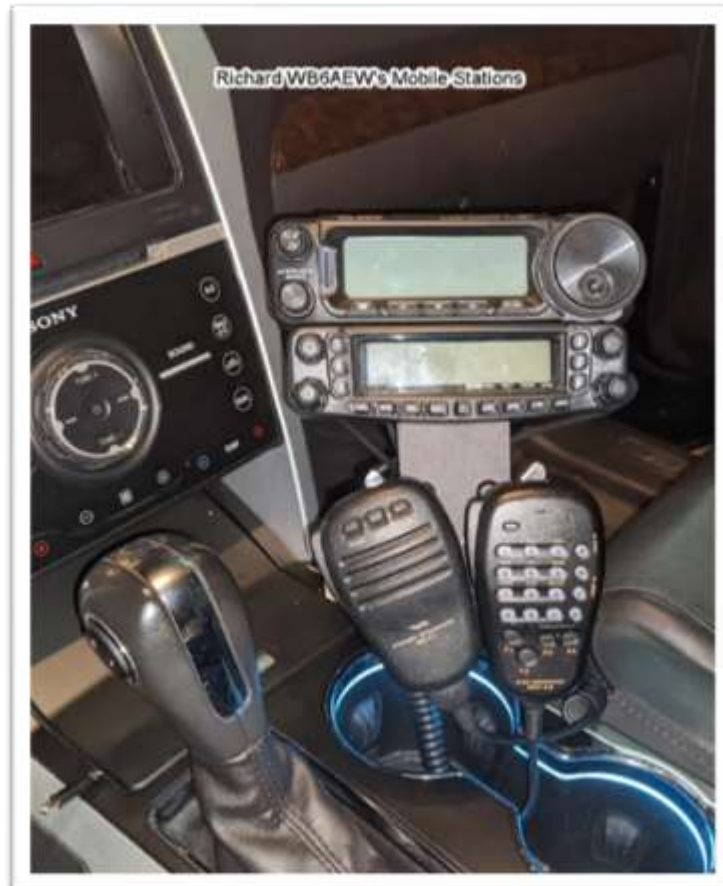
Break for socialization and set-up (20 minutes)

Presentation

- The speaker was Pedro Morillas K6MIL who presented “Testing, Results and Opinions regarding the 2M/440+ ‘CompacCounterpoise’ antenna by Dr. Jack Nilsson, Inventor - Antennas, EM & Energy COMPACTenna.com”. Many questions were asked and Pedro was thanked.

Adjournment:

- Mark motioned and Bob seconded to adjourn the meeting at 20:30. The vote was almost unanimous (W6JPG may have been slow raising his hand :).



Minutes of the April 17th, 2022, VCARC Special Board Meeting

MEETING LOCATION: Zoom

BOARD ATTENDEES:

OFFICE	LAST	FIRST	CALL SIGN	PRESENT
PRESIDENT	SHANK	ROBERT	KM6RSS	x
VP	ALBERTS	CLEMENT	KM6OKZ	x
SECRETARY	COHEN	PHIL	WA6BUZ	x
TREASURER	GARTMAN	JOHN	W6JPG	x
BOARD	VACANT			
BOARD	SCHMIDT	DAVE	A16VX	x
BOARD	SWANEY	MARK	KD6ASL	X

Also attending was Steve Noll WA6EJO as a visitor.

CALL TO ORDER 19:30

Open the meeting at 19:30 and there were 5 out of a possible 6 board members present. Phil joined about 19:55 as the 6th board member.

New Business:

1. Clement (acting as secretary) read the agenda and made the motion to limit board expenditures to not more than \$450 without general membership vote. There was some discussion. The chair moved to table this motion until our normally scheduled May 8th Board Meeting. The vote was unanimous.
2. Clement (acting as secretary) read the agenda and made the motion to discuss and formally acknowledge the resignation of Steve Noll as board member. There was some discussion; Steve stated that he has officially resigned his board position. The chair moved to table this motion until our normally scheduled May 8th Board Meeting. The vote was unanimous.
3. Mark announced that he had 20 signed up for the picnic. He made the motion to spend no more than \$250 for food, drink and snacks. The vote was unanimous. Mark Ortega will assist with cooking and everyone is invited to help set up and take down after the picnic. Bring your Field Day equipment and questions so that we are prepared.

Adjournment:

The meeting adjourned at 20:02 PM.

K6MEP Monday Night Net Update Robert KM6RSS

Our new Monday Night Net Contest started Monday, January 3rd and will end on December 5th. 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 Monday Night Net Contest Totals. Our groups.io has all of the Monday Night Net Contest documents in the files folder. We've had a contest-to-date total over 17 weeks of 271 check-ins with 32 visitors and an average of 15.94.

	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
	Total	271	32

Trust Nothing! (Type N elbows)

Steve J. Noll, WA6EJO

I found myself short of type N elbows when relocating one of the Amateur Television Network repeaters. TRW Swap Meet here I come. I picked up a half dozen surplus units for a dollar or two each. When I got home I thought I might as well test them. Pumped 10 GHz through each from my HP 8673B. 10 GHz may be an ‘acid’ test, but N connectors are rated to at least 11 GHz. I measured the loss with a HP 431C/478A. Most were 0.2 dB or less loss, but one was 4 dB and another was 11 dB! You’d think the 11 dB elbow must be open but it measured fine with an ohmmeter. What is going on inside of that 11 dB unit? I clamped that unit and one of the good ones to my milling machine and cut away. The photo shows the story. The 11 dB unit construction is pretty bad compared to a good unit. In addition, what insulation it has fails the soldering iron test, probably polyethylene, not Teflon as is in the good unit. I wasn’t paying attention when I bought these at the swap meet. The 11 dB unit is really shiny, probably from that far eastern country. The 4 dB loss unit less shiny but both were lacking any part numbers stamped into their nuts, unlike the good U.S. made units. Lesson learned, look for numbers on the nuts and avoid shiny objects.

Photo: 11 dB loss N-elbow is on left. Good N-elbow on right. Note numbers on good unit nut.

73,
Steve WA6EJO



Thoughts from the West - Reese West KQ6TT

DECISION MAKING

Life is complicated by the necessity of making hundreds of decisions. Some are easy or repetitive, or are of little consequence. Others are of major consequence and difficult. Let's take a look at decisions in general.

In life and in business I found two types of decisions, arbitrary with little or no real importance and difficult, highly consequential and/or varying importance.

In business, I passed all low importance decisions to other people. Making those decisions helped them grow in self-reliance and helped prepare them for promotion. The more difficult decisions require more discussion.

In general, difficult choices require more information. If there is a date the decision must be made, delay while gathering what is needed, if you can. Many times the new information resolves the problem, and the actual decision just evaporates away. It is not even consciously made. What is then left are the highly important choices that must be made without enough data to know for sure if you are right. When the time comes that you must act, make the decision and proceed. If it turns out to be correct, take credit for it because, for sure, you are going to get the blame for something you didn't do. If the decision turns out to be wrong due to new information, don't agonize over it. Not even regret. You made the decision with the information you were able to get. Shrug it off. There will be more decisions coming.

I am glad that I wrote this. Age has taken my looks and health, so I must now have wisdom. That was an easy decision. I didn't pass it down.



(Graphic credit [gzd5125](#) on [April 12, 2020](#))

Reese West KQ6TT

PVARC Update by Paul WD6EBY

FOR IMMEDIATE RELEASE

Grant Awarded: Ventura County, California Ham Radio Network Expansion/Upgrade

Camarillo, CA, April 2022 – Amateur Radio Digital Communications (ARDC) has awarded the Pleasant Valley Telecommunications Advisory Council (PVTAC), a grant of \$154,000 for amateur radio network expansion and upgrades. Grant funds must be used in accordance with terms set forth in the approved grant budget for predetermined projects and purposes.

The Pleasant Valley ARC, funded by the Pleasant Valley Telecommunications Advisory Council (PVTAC), installs and maintains both an analog FM repeater system and an amateur radio digital network that currently encompasses about 600 square miles in Ventura County, western Los Angeles County, and the Santa Clarita Valley in northern L.A. County. In order to support normal and emergency communications for amateurs and the agencies they support, the PVTAC amateur radio network (which utilizes AREDN software) needs to be extended to all of Ventura County and existing sites significantly improved and hardened.

The task-specific project funds that were approved by the grant include:

- The build out of four additional mountain top locations, and significant upgrades to the eight current sites
- Backbone sites
- Up to three high-level user access points at each site, running AREDN software
- Approximately 30 new ground-level user access points located at hospitals, law enforcement EOCs, Red Cross chapters, etc.
- Videos for public dissemination that provide unique views of incidents, such as Southern California brush fires
- Off-network management
- Spare equipment to cover outages

The Pleasant Valley Telecommunications Advisory Council and Pleasant Valley Amateur Radio Club extends its heartfelt thanks to Amateur Radio Digital Communications for the opportunity to serve the community with this grant.

About ARDC

Amateur Radio Digital Communications (ARDC) is a California-based foundation with roots in amateur radio and the technology of internet communication. The organization got its start by managing allocations of the AMPRnet address space, which is designated to licensed amateur radio operators worldwide. Additionally, ARDC makes grants to projects and organizations that follow amateur radio's practice and tradition of technical experimentation in both amateur radio and digital communication science. Such experimentation has led to broad advances for the benefit of the general public – such as the mobile phone and wireless internet technology. ARDC envisions a world where all such technology is available through open-source hardware and software, and where anyone has the ability to innovate upon it.

(Continued on next page)

Trivia by Dana KG6WXE

DID YOU KNOW?

1. It was on January 24, 1935, that beer was first sold in cans.



2. On the average, Americans drink 15,000 cups of coffee a year.



3. The modern calculator is 350 times faster than the computer used on Apollo 11 spacecraft in 1969.



De Dana KG6WXE

Heard on the Net during April by Denney N6HV

On the April 18th net Clem KM6OKZ was pleased that he worked into Oregon on SSB; a 1500 mile contact during poor solar conditions. Robert KM6RSS is trying out his recently acquired octopus antenna. The antenna is a little bit touchy in tuning. He's having to re-tune it when additional elements for different bands are added. Dave AI6VX has been swamped with doing taxes at work. He swore he would get some hamming in this week. John W6JPG summed up band conditions, good week, FT-8 not. When FT-8 doesn't get out the conditions are not good. Rod KA6GSU is having noise problems. Mark KD6ASL continues to explore DMR. He managed to get into a DMR repeater and has worked several QSOs using it. Burt KA6BJA is busy with new (to him) APRS software that will be used for the Mountains to the Beach race (June 5th). Vehicles used during the race will have an APRS unit that will give the vehicle's positions out over the web. That includes bicycles. Burt is looking for volunteers to help with the race. He also has a new Near Vertical Incidence Skywave (NVIS) antenna he is going to try out this week. Pedro K6MIL took some time off to make some rings out of wood for his small relatives. Tim KN6JGB mentioned that he will be helping with a summer camp this year. N6HV reported that active regions on the sun, numbered 2993 and 2994 have been shooting off solar flare after solar flare. These solar flares have been causing radio black outs and made band condition very poor this week, as active region 2992 rotated around the limb of the sun where it can't be seen. But just before it did, it gave off a solar flare that added to the radio propagations problems here on earth. Mark KI6YLH put a two meter antenna on his Blazer. Paul WD6EBY is working on a repeater for Rasnow Peak. It's still in the works.

It was also mentioned on the net that there is a picnic on May 7th. Come enjoy visiting with your fellow hams.

After the net we hold a Zoom get-together; during the get-together we got to talking about Zoom and how confusing getting an update to the program is. You would think they would have a tab or button to click and get the latest update. Software types don't think like that.

From there the conversation degraded into talking about having multiple virus programs running at the same time can slow your computer down. Our resident computer fixer (Jeremy KN6JMD) recommended Malwarebytes as the anti-virus program he uses for his customers. That led to complains about Windows 11. Enough said.

There was a WaveTalkers presentation on the Barstow to Vegas relay run. The club had a member helping there (Richard WB6AEW).

73s, Denney N6HV



K6MEP Monday Night Net Script (revised 04/25/22)

QST- QST- QST. This is (name and 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 and 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 and 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 (date) at the Dudley House and Zoom, where the presentation topic is (topic name and presenter). We urge any non-members interested in the Ventura County Amateur Radio Club to contact us at 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.

The rules are as follows: 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
(Continued on next page)

K6MEP Monday Night Net Script (revised 04/25/22) (Continued)

membership in the club. The 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).

During the Roundtable, pause every 10 minutes and identify yourself with “This is (name and 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 and 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) for any details and QSL information.

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

Special Event Stations

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

Through Dec. 31, 0000Z – 2359Z, GB1900HA and GB1900HW, South Shields and Hexham, England. Hadrian's Wall Partnership. **Hadrian's Wall 1900 Festival**. 14.200 7.150 145.500 21.300. QSL. LoTW. *These two special event stations will run throughout 2022 to commemorate 1900 years since the building of Hadrian's Wall.* www.qrz.com/db/gb1900ha and www.qrz.com/db/gb1900hw

Apr. 15 – Apr. 18, 1400Z – 2359Z, N4D, Mesa, AZ. Superstition Amateur Radio Club, Inc. **80th Anniversary of the Doolittle Raid**. 3.893 7.225 14.330 21.337. QSL. SES N4D, c/o Superstition ARC, P.O. Box 21522, Mesa, AZ 85277-1522. <https://www.superstitionarc.org>

Apr. 18, 1400Z – 2000Z, W2NPT, Fair Lawn, NJ. Fair Lawn Amateur Radio Club. **World Amateur Radio Day**. 7.035 7.250 14.035 14.250. QSL. Fair Lawn Amateur Radio Club, 10-10 20th St., Fair Lawn, NJ 07410. fairlawnarc.org

Apr. 18 – Apr. 19, 1500Z – 0030Z, W7W, Ogden, UT. Nevada Amateur Radio Repeaters, Inc., and World Radio Network/World Friendship Net. **World Amateur Radio Day**. 3.920 7.074 14.074 28.400. QSL. Thomas Harrington, 636 W. 24th St., Ogden, UT 84401. www.wrnf-wfn.com and narrivoip.com

Apr. 18 – Apr. 19, 1700Z – 0030Z, W0W, Las Vegas, NV. NARRI "World" EchoLink Conference VoIP. **World Amateur Radio Day**. 146.520 441.500. Certificate. Thomas Harrington, 636 W. 24th St., Ogden, UT 84401. *Check websites for information on the EchoLink System EchoLink Conference "World" on cell phone app and PC or #479896 IRLP 9251 or AllStarLink via WV8CW #43609* QSL. www.wrnf-wfn.com, www.narivoip.com, and www.qrz.com/db/w0w

Apr. 19 – Apr. 20, 0000Z – 2359Z, K6V, Baker, CA. West Valley Amateur Radio Club. **Baker to Vegas LAPD Challenge Race**. 147.465 223.440 445.510. Certificate. West Valley ARC, 5403 N. Annie Ct., Litchfield Park, AZ 85340. bakervegas.net

Apr. 23, 1500Z – 1900Z, NE1PL, Fall River, MA. USNR. **Remembering the 80th Anniversary of the Doolittle Raid**. 14.259; 20 and 40 meters; other bands possible as equipment and operators allow. Phone and digital. QSL. Rick Emord, KB1TEE, 135 Wareham St., Middleboro, MA 02344. www.ne1pl.org

Apr. 29 – May 1, 1900Z – 1900Z, W0ZSW, Minneapolis, MN. Handiham Radio Club. **Handiham 55th Anniversary Special Event**. 7.040 14.265. QSL. Handiham Program, 3915 Golden Valley Rd., Mail Route 78446, Minneapolis, MN 55422. handiham.net

Apr. 30 – May 1, 1400Z – 2020Z, N3P, New Kensington, PA. WQ3Q. **Hams for PanCAN**. 3.960. 7.172. Certificate & QSL. Richard Ryba/PanCAN, 2777 Leechburg Rd., New Kensington, PA 15068. https://secure.pancan.org/site/TR/PurpleStride/PurpleStride?px=3163046&pg=personal&fr_id=2357 or rybar1949@gmail.com

Apr. 30 – May 1, 1700Z – 1700Z, N1D, Athens, GA. Athens Radio Club. **UGA Sanford Stadium Special Event**. 3.930 7.230 14.330 28.430. QSL. Athens Radio Club, P.O. Box 782, Athens, GA 30603-0782. www.athensradioclub.org

May 7, 1300Z – 2109Z, W4LX, Fort Myers, FL. Fort Myers Amateur Radio Club. **Celebrating National Train Day**. CW 7.040 14.040; PSK31 14.070; SSB 7.260 14.260. Certificate & QSL. Fort Myers Amateur Radio Club, P.O. Box 61183, Fort Myers, FL 33906. *From the Railroad Museum of South Florida.* www.fmarc.net

May 7 – May 8, 1300Z – 0100Z, N4B, Moulton, AL. Bankhead Amateur Radio Club, Inc. **40th Anniversary Celebration**. 7.150 14.200 SSB. QSL. Moulton ARC, N4IDX, 215 County Road 599, Moulton, AL 35650. www.n4idx.com

May 7 – May 10, 1500Z – 2300Z, W7G, Corinne, UT. Ogden Amateur Radio Club. **Golden Spike Special Event Station**. 7.040 7.235 14.040 14.255. QSL. Ogden Amateur Radio Club, P.O. Box 3353, Ogden, UT 84409. www.w7g.org

May 14, 1200Z – 2300Z, NF4GA, Roswell, GA. North Fulton Amateur Radio League. **45th Anniversary**. SSB, CW, and digital on 40 and 20 meters; 7.260 14.260. QSL. North Fulton Amateur Radio League, P.O. Box 1741, Roswell, GA 30077. *Operating from West Island GA 027L.* <https://nfarl.org>

May 14, 1300Z – 1900Z, W1M, Russell, MA. Western Mass Council, Scouts BSA. **WHOA Weekend, Scouts BSA**. 7.190 10.115 14.060 14.290. QSL. Tom Barker, WA1HRH, 329 Faraway Rd., Whitefield, NH 03598. *Paper logging. QSL via SASE and eQSL.*

May 14, 1300Z – 2200Z, Armed Forces stations, Salado, TX. Department of Defense Armed Forces. **Armed Forces Day Crossband Test**. USB 5330.5 14438.5 14383.5. QSL. Armed Forces Day, 13164 FM 2484, Salado, TX 76571. *Military stations will transmit on DOD channels and announce the amateur frequency they are monitoring. A complete list of participating stations, modes, channels, and times will be available after April 1 at www.dodmars.org.* <https://www.dodmars.org/mars-comex-information-website/armed-forces-day>

May 14, 1400Z – 2000Z, K4RC, Williamsburg, VA. Williamsburg Area Amateur Radio Club. **Jamestown Landing Day Event**. 7.265 14.265. Certificate & QSL. QSL Manager, K4RC, P.O. Box 1470, Williamsburg, VA 23187. info@k4rc.net or k4rc.net

May 14, 1400Z – 2200Z, K0M, Inver Grove Heights, MN. South East Metro Amateur Radio Club. **Celebrating the Anniversary of Minnesota Statehood**. 7.035 7.250 14.250 18.100. Certificate (downloadable from website one month after event). www.semarc.org

May 14, 1500Z – 2200Z, N0F, Anoka, MN. Anoka County Radio Club. **Minnesota Fishing Opener at Ham Lake Park**. 7.250 14.255. QSL. Anoka County Radio Club, P.O. Box 982, Anoka, MN 55303. www.anokaradio.org

May 14, 1600Z – 2300Z, N6IW, San Diego, CA. USS Midway (CV-41) Museum Ship. **Battle of Coral Sea**. 7.250 14.320 14.070 (PSK31); D-STAR (Papa Sys Rept). QSL. USS Midway Museum Ship COMEDTRA, 910 N. Harbor Dr., San Diego, CA 92101. www.qrz.com/db/n6iw

Selected Contests & Special Events (Continued)

May 14 – May 15, 1300Z – 2300Z, WW1USA, Kansas City, MO. World War I Museum and Memorial. **103rd Anniversary of Peace Conference**. 7.030 7.250 14.030 14.250. Certificate & QSL. Charles Van Way, N0CVW, 2 Memorial Dr., Kansas City, MO 64108 for QSL; certificate request to ww1usa@theworldwar.org. [www.theworldwar.org](http://www.theworldwar.org/amateurradio)

May 15 – May 17, 0000Z – 2300Z, W4B, Crossville, TN. FMCA-ARC. **FMCA-ARC Spring Rally**. 7.240 7.330 14.240 14.330. QSL. Dennis Tuchalski, 5854 Moro Rd., Moro, IL 62067. Possible POTA activation; we will spot on DX reflector. <https://fmcaarc.com>

May 15 – May 21, 0000Z – 2359Z, K3FBI/Ø – 9, Quantico, VA. FBI Amateur Radio Association. **National Police Week — Honor Our Fallen Heroes**. 14.275; all bands, all modes. Certificate. Downloadable certificate only, see website for details. Multiple club members operating from around the country. www.qrz.com/db/k3fbi

May 15 – May 21, 0000Z – 2359Z, W1N, Winsted, CT. Wireless Operators of Winsted. **Winchester Connecticut 250th Anniversary**. 3.950 7.240 14.270. QSL. Dana Borgman, 72 Wetmore Ave., Winsted, CT 06098. wb1dju@arrl.net

May 15 – May 27, 0001Z – 2359Z, K4D, Cambelle, FL. K5TEN. **Dog Island IOTA DXpedition**. SSB 7.185 14.260 21.285 28.310; CW 7.027.5 7.110 10.110 14.027.5 21.027.5 28.010; 6-meter operation for sporadic E. QSL*. Bruce Brady, 208 Mount Tabor Rd., Hot Springs National Park, AR 71913. Rare NA-085 IOTA island and VHF/UHF Grid Square EL79. k5ten@aol.com

May 16 – May 31, 0000Z – 0000Z, K1A, Cleburne, TX. Club KC5NX. **Memorial Day 2022**. 7.235 7.240 14.045 14.255. QSL. Club KC5NX, 9200 Summit Ct. W., Cleburne, TX 76033-8212. www.qrz.com/db/kc5nx

May 21, 1300Z – 2100Z, K4S, Quicksburg, VA. Woodstock Amateur Radio Breakfast Group. **Shenandoah Caverns 100th Anniversary**. 7.040 7.240 14.040 14.240. Certificate. Carl M. Dennis, NX3A, 2224 Graveltown Rd., Quicksburg, VA 22847. <https://shenandoahcaverns.com>

May 21, 1600Z – 2130Z, W5KID, Baton Rouge, LA. Baton Rouge Amateur Radio Club. **Armed Forces Day**. 7.040 7.250 14.040 14.250. QSL. USS Kidd Amateur Radio Club, 305 S. River Rd., Baton Rouge, LA 70802. Operation aboard the USS Kidd (DD-661). www.qrz.com/db/w5kid

May 28 – May 30, 1400Z – 2200Z, W3M, State College, PA. Nittany Amateur Radio Club. **Birthplace of Memorial Day**. 7.245 14.245. QSL. W3M c/o Nittany ARC, P.O. Box 614, State College, PA 16801. www.qrz.com/db/w3m and nittany-arc.net

May 30, 1600Z – 2130Z, W5KID, Baton Rouge, LA. Baton Rouge Amateur Radio Club. **Memorial Day Commemoration**. 7.040 7.250 14.040 14.250. QSL. USS Kidd Amateur Radio Club, 305 S. River Rd. Baton Rouge, LA 70802. Operation aboard the USS Kidd (DD-661). www.qrz.com/db/w5kid

May 30, 1800Z – 2200Z, N3TAL, Lanham, MD. American Legion Post 275 ART. **Memorial Day Special Event**. 7.275 LSB. QSL. American Legion Post 275 ART, 8201 Martin Luther King Jr. Hwy., Lanham, MD 20706. wa3dvo@verizon.net



Contest Corral

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

Contest Corral

May 2022

Check for updates and a downloadable PDF version online at www.arri.org/contest-calendar. Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

Start Date-Time	Finish Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
1 1300	1 1900	3.5-28	AGCW QRP/QRP Party	CW	RST serial class (A/B)	agcw.de/contest/qrp-qrp
2 0000	2 0100	1.8-28	K1USN Slow Speed Test	CW	Name SPC (max 20 WPM)	www.k1usn.com/sst.html
2 1630	2 1729	3.5, 7	OK1WC Memorial (MWC)	CW	RST serial	memorial-ok1wc.cz
3 0100	3 0159	1.8-50	Worldwide Sideband Activity Test	Ph	RS CM/YL/Youth	wwsac.com/rules.html
3 0100	3 0300	3.5-28	ARS Spartan Sprint	CW	RST SPC power	arsqr.blogspot.com
3 1700	3 1900	3.5-14	RTTYops Weekspint	Dig	Other's call your call serial name	rtyops.com
4 1200	4 1300	1.8-28	A1Club AWT	CW	RST name	a1club.org/contest/awt
4 1300	4 1400	1.8-28	CWops Test (CWT)	CW	Name mbr or SPC	cwops.org/cwops-tests
4 1700	4 2000	144	VHF-UHF FT8 Activity Contest	FT8	4-char grid square	ft8activity.eu/index.php/en
4 1900	4 2000	1.8-28	CWops Test (CWT)	CW	Name mbr or SPC	cwops.org/cwops-tests
4 2300	5 0300	All	MIE 33 Contest	CW Ph	RS(T) age	www.ztv.ne.jp/isoda/33/annual/44/44rule-e.html
5 0000	6 0300	7	Walk for the Bacon QRP Contest	CW	RST SPC name mbr or power (<13 WPM)	qrptest.com/pigwalk40
5 0300	5 0400	1.8-28	CWops Test (CWT)	CW	Name mbr or SPC	cwops.org/cwops-tests
5 0700	5 0800	1.8-28	CWops Test (CWT)	CW	Name mbr or SPC	cwops.org/cwops-tests
5 1700	5 1900	3.5-14	RTTYops Weekspint	Dig	Other's call your call serial name	rtyops.com
5 1800	5 2200	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T) 6-char grid square	nrricontest.no/index.php/nri-contests
5 1900	5 2000	3.5, 7	EACW Meeting	CW	RST mbr name EA province or country	eacwspain.es/eacwmeeting
5 2000	5 2200	1.8-50	SKCC Sprint Europe	CW	RST SPC name mbr or "none"	skccgroup.com
6 0145	6 0215	1.8-21	NCCC RTTY Sprint	Dig	Serial name QTH	ncccsprint.com
6 0230	6 0300	1.8-21	NCCC Sprint	CW	Serial name QTH	ncccsprint.com
6 2000	6 2100	1.8-28	K1USN Slow Speed Test	CW	Name SPC (max 20 WPM)	www.k1usn.com/sst.html
7 0001	8 2359	28	10-10 International Spring Contest, CW	CW	Name mbr or "0" SPC	www.ten-ten.org
7 0300	7 0859	3.5-28	RCC Cup	CW Ph	RS(T) mbr or ITU zone	rccup.ru
7 0800	7 1400	All above 902	Microwave Spring Sprint	All	6-char grid square	sites.google.com/site/springvhfupsprints
7 1200	8 1159	3.5-28	ARI International DX Contest	Ph CW Dig	RS(T) 2-letter Italian province or serial	www.ari.it
7 1200	8 1200	3.5-144	F9AA Cup, Dig	Dig	RST serial	site.urc.asso.fr/index.php
7 1200	8 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST SPC name mbr or "none"	www.skccgroup.com
7 1300	8 0700	1.8-28	7th Call Area QSO Party	CW Ph Dig	RS(T) 7th-area state/country or SPC	7qp.org
7 1500	8 0300	1.8-28	Indiana QSO Party	Ph CW	RS(T) IN county or SPC	www.hdxcc.org/inqp/rules.html
7 1700	8 2359	1.8-VHF	Delaware QSO Party	CW Ph Dig	RS(T) DE county or SPC	www.fsarc.org/qsoparty/rules.htm
7 2000	8 2359	3.5-28	New England QSO Party	CW Ph Dig	RS(T) New England county/state or SPC	neqp.org/rules
8 1000	8 1400	7	WAB 7 MHz Phone	Ph	RS serial WAB square or country	wab.intermp.net/Contests.php
9 0000	9 0200	1.8-28	4 States QRP Group Second Sunday	CW Ph	RS(T) SPC mbr or power	4sqr.com/SSS/sss_rules.pdf
9 1900	9 2030	3.5	RSGB 80-Meter Club Championship, SSB	Ph	RS serial	www.rsgbcc.org/hf
11 1700	11 2000	432	VHF-UHF FT8 Activity Contest	FT8	4-char grid square	ft8activity.eu/index.php/en
14 1200	15 1159	1.8-28	CQ-M International DX Contest	CW Ph	RS(T) serial	cq.m.srr.ru/en-rules
14 1200	15 1200	3.5-28	VOLTA WW RTTY Contest	Dig	RST serial CQ zone	www.contestvolta.com
14 1700	15 0300	7-28	Canadian Prairies QSO Party	CW Ph	RS(T) VE4/5/6 district code or SPC	cpqp.ve6hams.ca
14 2300	15 0300	50	50 MHz Spring Sprint	All	4-char grid square	sites.google.com/site/springvhfupsprints
15 2300	16 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST SPC mbr or power	qrptest.com/pigrun
18 1700	18 2000	1.2G	VHF-UHF FT8 Activity Contest	FT8	4-char grid square	ft8activity.eu/index.php/en
18 1900	18 2030	3.5	RSGB 80-Meter Club Championship, Data	Dig	RST serial	rsgbcc.org/hf
19 0000	20 0300	14	Walk for the Bacon QRP Contest	CW	RST SPC name mbr or power (<13 WPM)	qrptest.com/pigwalk20
19 0030	19 0230	3.5-14	NAQCC CW Sprint	CW	RST SPC mbr or power	naqcc.info
19 1900	19 2000	3.5-14	NTC QSO Party	CW	RST mbr or "NM" (25 WPM max)	qsl.net/ntc/party.html
21 0300	22 0900	50-1296	SARL VHF/UHF Digital Contest	Dig	RST 6-char grid locator	www.sarl.org.za
21 0600	21 2100	3.5-28	UN DX Contest	CW Ph	RS(T) Kazakhstan district code or serial	undxc.kz/rules-eng
21 0800	21 1959	3.5-28	YOTA Contest	CW Ph	RS(T) age	www.ham-yota.com/contest
21 0800	22 1100	3.5	NZART Sangster Shield Contest	CW	RST serial Branch number (if ZL)	nzart.org.nz/activities/contests
21 1200	22 1200	1.8-28	His Majesty King of Spain Contest, CW	CW	RST EA province or serial	concursos.ure.es/en
21 1200	22 1200	3.5-28	EU PSK DX Contest	Dig	RST EU area or serial	eupsk.club/eupskdx/eupskdxrules.pdf
21 1400	22 0200	1.8-144	Arkansas QSO Party	CW Ph Dig	RS(T) AR county or SPC	www.arkqp.com
21 1600	21 2159	1.8-50	Feld Hell Sprint	Dig	Mbr SPC grid	sites.google.com/site/feldhellclub
21 2100	22 0200	3.5	Baltic Contest	CW Ph	RS(T) serial	lrsf.it/en/balticcontestrules
23 0000	23 0100	1.8-28	QRP ARCI Hootowl Sprint	CW	RST SPC mbr or power	qrparki.org/contest
25 0000	25 0200	1.8-50	SKCC Sprint	CW	RST SPC name mbr or "none"	www.skccgroup.com
26 1400	26 2200	3.5, 7	QRP Minimal Art Session	CW	RST class number of components	qrpc.de/contestrules
26 1900	26 2030	3.5	RSGB 80-Meter Club Championship, CW	CW	RST serial	www.rsgbcc.org/hf
28 0000	29 2359	1.8-28	CQ WW WPX Contest, CW	CW	RST serial	www.cqwp.com
30 1900	30 2030	3.5-14	RSGB FT4 Contest	FT4	4-char grid square	www.rsgbcc.org/hf

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

Upcoming FCC Exam Session

Preparation Sites

(Virtual and In Person)

Cerritos CA 90703

04/30/2022

Start/End Dates: 04/30/2022 - 05/01/2022

Times: 0800-1700

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

Instructor: KI6JAR

Contact: Ralph Wynkoop KI6JAR

Phone: (562) 895-7776

Email: Wynnsradio@msn.com

Location: Sheriff's Station

18135 Bloomfield Avenue

Cerritos, CA 90703

Additional Information: These very popular classes are finally starting up again after COVID. They are done in the "Gordon West" style, meaning demos and lots of radios and radio parts in the classroom for your inspection. Class is 2 days, starting on time at 0800 both Saturday and Sunday. We will finish at about 1700 on Saturday, and around 1500 on Sunday. Then, on Sunday, the FCC exam will be given and graded. You will have your results Sunday. There is pre-study required, which you will receive, along with all additional information, when we receive your registration. A hand-held radio will be raffled off to one lucky winner. To join the raffle, you must simply have attended the class, and passed the FCC exam. This may be your last chance to get in before the exams change on July 1. Classes are held at the Cerritos Sheriff's Station in Cerritos. There is plenty of free parking. To register, send a check made out to "WynnsRadio" for \$60 to R. Wynkoop at P.O. Box 3793, Cerritos, CA 90703

Online CA 90703

05/04/2022

Start/End Dates: 05/04/2022 - 05/25/2022

Times: Wednesdays 7PM-9PM Pacific time

of Sessions: 4

Class level: Technician

Morse code offered: No

Pre register required: Yes

Fee: \$50

Pre Study required: Yes

Class Type: Online or Hybrid

Exam offered: No

Sponsoring Club/Organization: American Red Cross

Instructor: KK6SMD

Contact: Mark Chung KK6SMD

Phone: (562) 708-3893

Email: mchung@prodigy.net

Location: From Your Home

From Your Home

From Your Home

From Your Home, CA 90703

Additional Information: Technician LICENSING

CLASS Start/End Dates: 05/04/2022 - 05/25/2022

Times: 7PM to 9PM Pacific Time # of Sessions: 4

Class level: Technician Morse code offered: No

Pre register required: Yes Fee: \$50 Pre Study required:

Yes Class Type: Online or Hybrid Exam offered: No

Sponsoring Club/Organization: American Red Cross -

Los Angeles County Instructor: KK6SMD Contact:

Mark Chung KK6SMD Phone: (562) 708-3893 Email:

mchung@prodigy.net Location: Red Cross - Los

Angeles Region Your Home Location via ZOOM

Cerritos, CA 90703 Additional Information: Using the

ZOOM Platform, the lesson plans follow a logical

path in order to pass the FCC Exam for the first level

HAM radio license, the Tech Class. Using the Gordon

West Technician Study Guide (2018-2022 version),

the student will be asked to pre-study and be

familiar with chapters for the upcoming lectures

given by four esteemed Red Cross Amateur Radio

Operators. An alternate book would be the "Fast

Track to Technician", which can also be ordered via

Amazon. In order to register, please send to Mark

(KK6SMD) an email message and pay the

Registration fee of \$50.00 via Pay Pal using the email

address: mchung@prodigy.net. Otherwise, a check

may be mailed to: Mark Chung, Cerritos Amateur

Radio League, Box 575, 13337 South Street, Cerritos,

CA 90703. One week prior to the classes, a ZOOM

link will be sent to each participant. From the

comfort of your home, these classes have been a

forum for discussion as well as ham radio

knowledge. Arrangements to take the FCC

Technician license exam online will be made by

referral to our Volunteer Examiners.

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

Goleta CA 93117-3271

05/14/2022

Sponsor: Santa Barbara ARC

Date: May 14 2022

Time: 9:00 AM (Walk-ins allowed)

Contact: Tom Saunders

(805) 452-0840

Email: tsaund@cox.net

VEC: [ARRL/VEC](#)

Location: Impulse Communications

6144 Calle Real

Pre-registration preferred

Register on the team's website

Goleta CA 93117-3271

Website: <https://www.sbarc.org/ve-exam-registration/>

Santa Monica CA 90403-5610

05/14/2022

Sponsor: The PAPA system

Date: May 14 2022

Time: 7:00 AM (No Walk-ins / Register or Call ahead)

Contact: Norm Goodkin

(818) 613-2257

Email: hamclass@goodkin.net

VEC: [Greater LA VEC](#)

Location: Fromin's Deli and Rest

1832 Wilshire Blvd

[Http //Papasys.org](http://Papasys.org)

Pre-registration required

Santa Monica CA 90403-5610

Valencia CA 91355-2008

05/21/2022

Sponsor: Santa Clarita ARC

Date: May 21 2022

Time: 8:00 AM (No Walk-ins / Register or Call ahead)

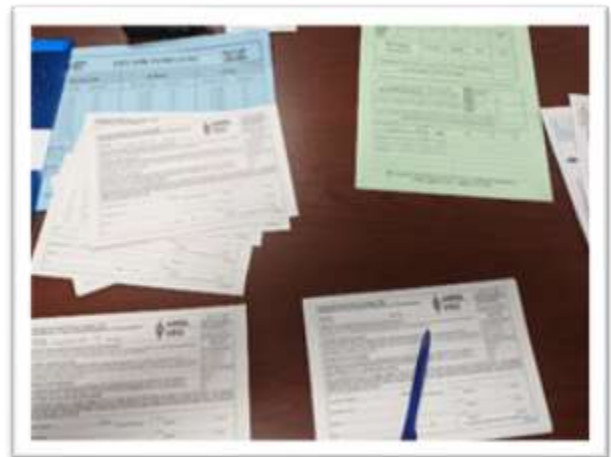
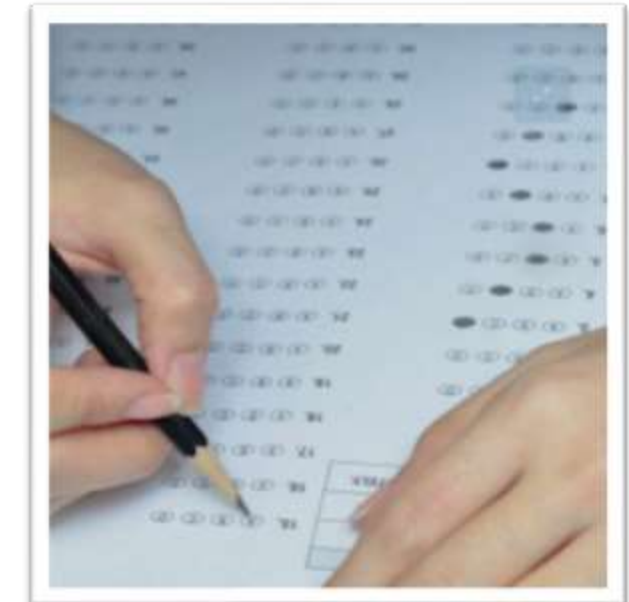
Contact: Ronald B. Klein

(661) 259-0948

Email: testing@w6jw.org

VEC: [Greater LA VEC](#)

Location: United Methodist Church of



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, W1X, sewald@arrl.org; www.arrl.org/hamfests-and-conventions-calendar

Convention and Hamfest Calendar

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

Abbreviation

Spr = Sponsor
 Tl = Talk-in frequency
 Adm = Admissio

Arizona (Prescott Valley) — May 14 D F H Q R T V
 8 AM – noon. Spr: Yavapai ARC, Amateur Radio Council of Arizona. Granville Elementary School, 5250 Stover Dr. Tl: 146.880 (100 Hz), 447.650 (100 Hz), 146.580 simplex. Adm: \$5. www.prescotthamfest.com

Colorado (Delta) — June 4 T
 8 AM – 11 AM. Spr: Montrose ARC. Lions Club Pavilion, 510 Palmer St. Tl: 147.195 (107.2 Hz). Adm: Free. www.montrosehamradio.org

Connecticut (Goshen) — May 21 D F H R T V
 8 AM – noon. Spr: Southern Berkshire ARC. Goshen Fairgrounds, 116 Old Middle St. (CT Route 63). Tl: 147.285 (77.0 Hz). Adm: \$5. www.sberk.org

Florida (Dade City) — May 7 F H T V
 7 AM – noon. Spr: East Pasco ARS. Church Ave. parking lot, 37444 Church Ave. Tl: 146.880 (146.2 Hz). Adm: \$5. www.eparsonline.org

Florida (Pinellas Park) — May 28 F R T
 8 AM – noon. Spr: The Glorious Society of the Wormhole. Freedom Lake Park, 9990 N. 46th St. Tl: 146.850 (146.2 Hz). Adm: Free. www.w4orm.org

ARRL GEORGIA STATE CONVENTION

June 4, Marietta, Georgia

D F H Q R S T V
 8 AM – 3 PM. Sprs: Atlanta Radio Club, Kennehoochee ARC. Jim Miller Park, 2245 Callaway Rd. Tl: 146.820 (146.2 Hz). Adm: \$8. www.atlantahamfest.com

Idaho (Salmon) — Apr. 28 – May 1 F H T V
 9 AM – 7 PM. Spr: Lemhi ARC. Whitewater Arena, Cemetery Rd. Tl: 146.98 (100.0 Hz), 146.52. Adm: Free. Email: kl7ut@pm.me

Illinois (Mendota) — June 5 D F H R T V
 8 AM – 3 PM. Spr: Starved Rock Radio Club. Mendota Tri-County Fairgrounds, 503 First Ave. Tl: 147.120 (103.5 Hz). Adm: \$7 advance, \$8 door. www.w9mks.org

Maryland (Boonsboro) — Apr. 30 D F H Q R S T V
 7 AM – 2 PM. Spr: Antietam Radio Association. Washington County Agricultural Education Center, 7313 Sharpsburg Pike. Tl: 147.09, 146.94 (100 Hz). Adm: \$7. www.w3cwc.org

Michigan (Chelsea) — June 5 D H Q R T V
 8 AM – noon. Spr: Chelsea Amateur Radio Club. Chelsea Community Fairgrounds, 20501 W. Old US Hwy 12. Tl: 145.450, 146.980 (100 Hz). Adm: \$5. www.wd8iel.com

Michigan (Ferndale) — June 5 D F H R T V
 9 AM – 1 PM. Spr: K8FBI Radio Club. Fraternal Order of Police Lodge 130, 2233 Burdette St. Tl: 442.600 (123 Hz). Adm: Free. www.flyingbeers.org

Michigan (Hudsonville) — June 4 D F H R T V
 8 AM – noon. Spr: Independent Repeater Association. Hudsonville Fairgrounds, 5235 Park Ave. Tl: 147.16 (94.8 Hz). Adm: \$8. www.w8ira.org

Michigan (Shelby Township) — May 21 D F
 8 AM – noon. Spr: GM ARC. Packard Proving Grounds Historic Site, 49965 Van Dyke Ave. Tl: 443.075 (123 Hz). Adm: \$5 per carload buying or selling. www.gmarc.org

Missouri (Springfield) — June 4 D F H R S T V
 8 AM – 1 PM. Spr: Southwest Missouri ARC. Salvation Army Springfield Headquarters, 1707 W. Chestnut Expressway. Tl: 146.910 (162.2 Hz). Adm: \$5 advance, \$7 door. www.smarc.org

ARRL NEBRASKA STATE CONVENTION

May 14, Lincoln, Nebraska

D F H Q R S V
 8 AM – 5 PM. Spr: Lincoln ARC. Lancaster Events Center, 4100 N. 84th St. Tl: 146.760. Adm: \$8. Free if under 16 years of age. www.lincolnhemfest.org

Nevada (Minden) — June 4 F
 6:30 AM – noon. Spr: N7RCA. 1780 Bobcat Ct. Tl: none. Adm: Free. www.n7rca.com

Nevada (Verdi) — May 21 D F
 8 AM. Spr: Sierra Nevada ARS. Cabela's, 8650 Boomtown Garson Rd. Tl: 147.210 (100 Hz), DMR TG31328. Adm: Free. www.renohamswap.com

New Jersey (Fair Lawn) — June 4 D F H Q R T
 8 AM. Spr: Fair Lawn ARC. Memorial Pool south parking lot, Essex St. and Bellair Ave. Tl: 145.470 (167.9 Hz). Adm: \$5. www.flarchamfest.com

New Mexico (Clovis) — May 28 F H R S T V
 8:30 AM – 4 PM. Spr: Eastern New Mexico ARC. Trinity Lutheran Church, 1705 West 19th St. Tl: 443.45 (131.5 Hz). Adm: Free. www.ka5b.org

New Mexico (Pena Blanca) — May 6 – 8 F H R S T
 8 AM – 5 PM. Spr: High Desert Amateur Radio of New Mexico, Inc. Buffalo Grove Loop Space 58 and 59 at Cochiti Campground at Cochiti Lake State Park, NM16. Tl: 146.460 simplex, 145.290 (100 Hz). Adm: Free. www.nm5hd.org

New Mexico (Roswell) — May 21
 8 AM – 1 PM. Spr: Pecos Valley ARC. Beginnings, 3908 SE Main St. Tl: 147.320 (146.2 Hz). Adm: \$5. www.pecosvalleyarc.com/alien-city-hamfest-2022

New York (Depauville) — May 21 F H R S T V
 8 AM – noon. Spr: Thousand Islands Repeater Club. Depauville Fire Dept. Community Center, 15231 School St. Tl: 147.030 (151.4 Hz). Adm: \$2. www.tirepeaterclub.com

New York (Hilton) — June 4 D F H Q R T V
 7 AM – 2 PM. Spr: Rochester Amateur Radio Association. Hilton Exempt Club, 137 South Ave. Tl: 146.61 (110.9 Hz). Adm: \$10. www.rochesterham.org/hamfest.htm

New York (Palmyra) — Apr. 30 D F H R T
 8 AM – 1 PM. Spr: Drumlins ARC. Palmyra VFW Post #6778, 4306 Route 31. Tl: 146.745 (71.9 Hz). Adm: \$5. www.drumlinsarc.us

Ohio (Toledo) — May 1 F
 9 AM – noon. Spr: Lucas County ARES. Toledo Speedway, 5639 Benore Rd. Tl: 146.61 (103.5). Adm: \$5. www.tinyurl.com/lcaresswap

Convention and Hamfest Calendar (continued)

Ohio (Wauseon) — June 4 D F H R T V
8 AM – 1 PM. *Spr:* Fulton County ARC. Roth Family Woodlot, 105 Hill Ave. *Ti:* 147.195 (103.5 Hz). *Adm:* \$5. www.k8bxq.org/hamfest

Ohio (Xenia) — May 20 – 21 D F H Q R S V
Fri. 9 AM – 5 PM, Sat. 9 AM – 5 PM, Sun. 9 AM – 1 PM. *Spr:* Dayton ARA, Greene County Fairgrounds and Expo Center, 120 Fairgrounds Rd. *Ti:* 146.94 (123.0 Hz). *Adm:* \$26 advance, \$31 door. www.hamvention.org

ARRL NORTHWEST DIVISION CONVENTION

June 3 – 5, Seaside, Oregon

D F H Q R S

Fri. workshop only, Sat. 9 AM – 4 PM, Sun. 9 AM – 1 PM. *Sprs:* Oregon Tualatin Valley ARC, Clark County ARC. Seaside Civic & Convention Center, 415 First Ave. *Ti:* 145.45 (118.8 Hz), 146.52 simplex. *Adm:* \$10 advance; \$15 door; student \$5, and children under 12 free. www.seapac.org

South Dakota (Huron) — June 4 H T V

8 AM – 7 PM. *Spr:* Huron Amateur Radio Association. Beadle County Sportsman's Club, 7th St. and Lawnridge Ave. NE. *Ti:* 146.82 (146.2 Hz). *Adm:* Free. Email: wb0uix@santel.net

Virginia (Manassas Park) — June 4 D Q R S T V

6:30 AM – 12:30 PM. *Spr:* Ole Virginia Hams. Manassas Park Community Center, 99 Adams St. *Ti:* 146.970 (no PL). *Adm:* \$9 advance, \$10 door. www.manassashamfest.com

Washington (Peshastin) — June 10 – 12 D R S T V

All day. *Spr:* Apple City ARC. Dryden Gun Club, 7649 Saunders Rd. *Ti:* 146.680 (156.7 Hz). *Adm:* \$8. www.applecityarc.com

Washington (Stanwood) — May 14 F H R

8 AM – 1 PM. *Spr:* Stanwood Camano ARC. Stanwood Camano Fairgrounds, 6431 Pioneer Hwy. *Ti:* 147.360 (127.3 Hz). *Adm:* \$5. www.scarcwa.org

West Virginia (Ripley) — May 1 D F H R T V

8 AM – 2 PM. *Spr:* Jackson County ARC. Ripley Middle School, West School St. *Ti:* 146.67 (107.2 Hz). *Adm:* \$5. www.jcarc.net

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.arri.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.arri.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 **June 1** to be listed in the **August** 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@arri.org.



ARRL News

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



One of the most popular amateur radio on-air events returns June 25 – 26, 2022. It will run from 1800 UTC Saturday, June 25 to 2059 UTC Sunday, June 26.

Bands and Modes: Participants may only operate on the 160-, 80-, 40-, 20-, 15-, and 10-meter HF bands, and may use all bands 50 MHz and above using phone, CW, and/or digital modes.

Setup: Class A and B stations that wish to operate for only 24 hours may begin their setup at 0000 UTC on the Friday (Thursday afternoon or evening local time) preceding the ARRL Field Day period. Cumulative setup time for those stations may not exceed a total of 24 hours. Class A and B stations that wish to operate the full 27-hour Field Day period may not begin setup until 1800 UTC on Saturday.

Reporting Your Score: All entries must be received at ARRL HQ no later than Tuesday, July 26, 2022. Participants are strongly encouraged to use the online ARRL Field Day score reporting system at www.field-day.arrl.org. Online entrants will receive an email confirmation that their entry was accepted, as well as 50 bonus points for submitting their score electronically.

New Rules for 2022: All entrants, regardless of entry category, are now limited to a maximum of 100 W peak envelope power (PEP). The rules waivers that have been in effect for the previous 2 years have also become permanent: Class D stations can work other Class D stations for points, and all entrants, regardless of their entry category, can contribute their scores to that of their club's aggregate score, which will be published in *QST*.

The rules for media publicity bonus points have been modified for 2022. In order to earn the 100 bonus points, participants must show proof that media covered their event, rather than participants only attempting to get coverage.

Let everyone know where you'll be operating for Field Day by using the Field Day Station Locator at www.arrl.org/field-day-locator. It can be used to find a nearby Field Day site, or an operation to join if you're traveling out of town.

Groups and individuals can share their plans and tips for a successful Field Day on the ARRL Field Day Facebook page, at www.facebook.com/groups/arrlfd. Be sure to use the hashtag #ARRLFD.

Participants should download and review the material found in the 2022 Field Day packet (including information about available bonus points), at www.arrl.org/field-day. Email any questions to fdinfo@arrl.org.



During the 2021 ARRL Field Day, Paul Nemeth, W4DUI, set up the GOTA (Get On The Air) station for coaching at the North Georgia Amateur Radio Club, W4QQ, Field Day site. [N. Renee Conaway, KK4LOJ, photo]

(Continued on next page)

ARRL News (Continued) (I know it is June information but I'm publishing it in May to give everyone a head start)

The June 2022 Kids Day

1800 UTC – 2359 UTC Saturday, June 18, 2022

The third Saturday in June is the time to encourage youngsters to get on the air and share in the excitement and fun that amateur radio can provide!

Sponsored by the Boring (Oregon) Amateur Radio Club, the Kids Day on-air event has a simple exchange suitable for a younger operator: first name, age, location, and favorite color. After that, the contact can be as long or short as each participant likes.

Kids Day is the perfect opportunity for you or your club to open your shack doors and invite kids over to discover what amateur radio is all about.

Complete rules and downloadable certificates of participation can be found at www.arrl.org/kids-day



Nine-year-old Liam Perrigou participated in the June 2021 ARRL Kids Day with his father Joe, K7KCE. It was Liam's first time on the air, and he made several contacts during the event. [Joe Perrigou, K7KCE, photo]

The 2022 ARRL June VHF Contest

1800 UTC Saturday, June 11 – 0259 UTC Monday, June 13

The June VHF Contest is right around the corner! The late-spring weather brings enhanced tropospheric ducting and meteor scatter. Plus, it's the peak of sporadic-E season. Take advantage of these propagation enhancements and have some

fun on the VHF and UHF bands. With several different categories to participate in, there's something to match your favorite style of operating.

Here are some things to remember for this contest:

- ♦ The exchange is simple: Just the Maidenhead grid square you're operating from. For more information on grid squares, visit www.arrl.org/grid-squares.
- ♦ All authorized modes on 50 MHz bands and higher are permitted to be used in the contest.
- ♦ Assistance is permitted in all ARRL VHF contests — you can make announcements or chat with others about your contest activity (as long as the contact is completed over the air).
- ♦ Log submissions: Upload your Cabrillo log file to the contest web app at <http://contest-log-submission.arrl.org>. Paper logs can be mailed to ARRL — June VHF Contest, 225 Main St., Newington, CT 06111.
- ♦ Ten-day deadline: all logs must be uploaded or postmarked no later than 0259 UTC, June 23.
- ♦ Share your photos and VHF contest stories to the ARRL Contest Soapbox page at <http://contests.arrl.org/contest-soapbox.php>.



Brian Betz, W7JET, participated in the 2021 ARRL June VHF Contest from Mount Ord in Arizona, located in grid square DM43. With 108 contacts and 37 multipliers, he took home first place in the Single Operator, Portable category for the Southwestern Division. [Brian Betz, W7JET, photo]

Complete rules can be found at www.arrl.org/june-vhf

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ARRL News (Continued)

The ARRL Ham Radio Equipment Insurance Plan

This policy covers radios and related equipment, with a lower deductible than most homeowners policies.

There are all kinds of ways to lose valuable gear in an instant. ARRL offers a ham radio equipment insurance plan as a benefit to members. Through this insurance, members can cover all of their equipment at a low price and ease their fears.

Tom McDonough, Senior Vice President of Risk Strategies Insurance, Inc., is the broker and administrator for this program with ARRL. He said, "The equipment insurance plan covers your radio equipment and all related equipment — whether you include computers, portable gear, miscellaneous cables and accessories, handhelds, etc."

The insurance covers mobile and home station equipment from damage by fire, lightning, wind, collisions, theft, and other accidents or natural hazards. It also covers loss or damage to antennas, towers, and rotators.

ARRL Insurance Plan vs. Homeowners Policies

McDonough explained how the ARRL insurance plan compares to homeowners policies:

The premium is based on a rate well below typical homeowners policy rates, and the deductible of \$50 to replace and \$25 to repair, is far below the deductible on most homeowners policies. Your homeowners policy is protecting you from a major economic loss — such as a fire — to your home. That is why most homeowners policies have minimum deductibles of \$500 per claim. You can reduce premiums by having a \$1,000 deductible on your homeowners policy, and even more if you raise it to \$2,500 or higher. This will save you on premium costs while still protecting you from the catastrophic loss due to a fire or damage from a fallen tree. The downside of that is your radio transceiver or other station equipment can be worth less than the homeowners deductible, and if lightning strikes, burning out the equipment, you could be faced with a significant expense to replace the equipment and get back on the air. Insuring the equipment in the ARRL program may help you reduce your premium on your homeowners policy and give you coverage that would not be available under the homeowners policy, because the deductible alone would prevent a covered claim.

The annual premium for this plan is just \$1.40 per \$100 of replacement cost value (with a minimum premium of \$20), whereas other coverage available typically runs from \$5 – 8 per \$100 of replacement cost value. The plan doesn't cover normal wear and tear on the equipment, dishonest acts by the policyholder, and other similar situations that are excluded in the policy.



The insurance coverage available to ARRL members can help safeguard your equipment in the event of theft or damage. [Photo courtesy of Ron Wilcox, KF7ZN]

How to Enroll

The ARRL Ham Radio Equipment Insurance Plan is available to all ARRL members who live in the United States. To enroll, visit www.arrlinsurance.com, where you can sign up, schedule your equipment, and pay your premium using a credit card or check. Make sure you list all radio equipment in use and its replacement value.

You must notify the plan administrator (Risk Strategies) of new equipment within 60 days of acquisition. With no additional premium, coverage for up to \$2,000 of new equipment is included until your next renewal date. For assistance, please call Risk Strategies' toll-free number, 866-819-0209.

Protection begins as soon as the premium is processed. For more information, visit www.arrlinsurance.com.

(Continued on next page)

ARRL News (Continued)

ARRL Seeks Exemption from Proposed US Forest Service Communication Facility Fees

ARRL filed comments with the US Forest Service (USFS), seeking an exemption for amateur radio facilities to a proposed new \$1,400 annual administrative fee. The USFS proposal resulted from requirements in the Agriculture Improvement Act of 2018 (also known as the Farm Bill), which directs the USFS to collect fees for issuing communications use authorizations based on the cost to the agency for processing the applications, maintenance, and other related activities. The proposed fee would have to be paid in addition to existing fees — which generally have been around \$130 – 140 annually for amateur uses.

"Although the discussion put forward by the Forest Service in its proposal focuses on commercial uses, the proposal would sweep within its requirements amateur radio uses that are solely noncommercial," ARRL said in comments filed on February 22.



"Non-commercial and uncompensated communication uses by radio amateurs within Forest Service areas [have long] served the public interest in many ways, among them by providing the means for otherwise unobtainable emergency communication capabilities in times of need," ARRL noted. "Amateurs perform this valuable public service without cost to taxpayers."

ARRL stressed that equipment, maintenance, and other costs associated with amateur radio facilities on USFS lands "are borne solely by the volunteer radio amateurs themselves."

ARRL continued, "Commercial applicants usually request more extensive use of the lands administered by the Forest Service, and these requests necessarily result in more complex issues having to be considered and resolved."

"In short, the proposal to include volunteer uncompensated amateur service applicants with the commercial wireless service and broadcast applicants is grossly inequitable," ARRL concluded. "There is a disparity in the [number] of resources necessary to consider applications from radio amateurs, as compared to that required by commercial applicants. These dissimilarities in complexity and scope should be recognized in this fees proposal and amateur radio applications exempted."

ARRL News (Continued)

Inexpensive Battery Analysis

Find out how well your batteries are really working.

**Lawrence Macionski, W8LM, and
Alex Mendelsohn, AI2Q**

It is rare to find an amateur radio operator that doesn't use batteries — especially rechargeable batteries — to power equipment. If you're looking to use an inexpensive battery, following this procedure will give you an efficient way to test and analyze how well your equipment and batteries are working.

Units of Measuring Charge

The unit for charge is the *coulomb* (C), which is about 6.2×10^{18} electrons. One coulomb passing a given point in 1 second is called 1 *ampere* (amp, A). Amps multiplied by hours is another unit for charge, 1 A for 1 hour (3,600 seconds), being 3,600 coulombs.

Batteries are rated by their charge storage in *amp-hours*, or *Ah*. Amp-hours are the current in amps multiplied by the number of hours it can be drawn. Smaller batteries are usually designated in milliamp-hours (mAh). As you drain a battery, even if the load is fixed, the current is changing. So, if you fully charge a battery, and then hang a fixed resistive load on that battery and measure the time it takes to reach the depleted voltage, you will know the time, but you won't know the current accurately, because as the voltage dropped, the current changed. Even the resistor might change value slightly as it heats up.

Using a Charge Counter Module

The heart of this project is a module called ZB2L3 or HW-586 (see the sidebar, "ZB2L3/HW-586 Module Specifications"). It is a charge counter and calculator that you can buy online. Before starting the project or using the module for testing purposes, follow a verification procedure to confirm the module purchased works properly.

The ZB2L3 or HW-586 module (see Figure 1) can automate the process by energizing a load to the battery, starting a clock and sampling current and voltage during the test period. When the depleted voltage point is reached, the module calculates the time against all the sample currents it measured. It then displays final amp-hours and flashes rapidly to indicate completion.

The module is powered with a cell phone ac adapter, or a microUSB 5 V power adapter. To use, connect a fully charged battery (between 1 and 15 V) and adjust a depleted (termination) voltage set-point with the UP and DOWN (+ and -) buttons on the ZB2L3. Then push the third button to start the test. A solid-state relay then switches in the load, which can't exceed 3 A, and the display alternates from volts to amps to accumulated amp-hours until the test is finished. The ZB2L3 can read up to 9,999 Ah, which is much more than any normal battery could store.

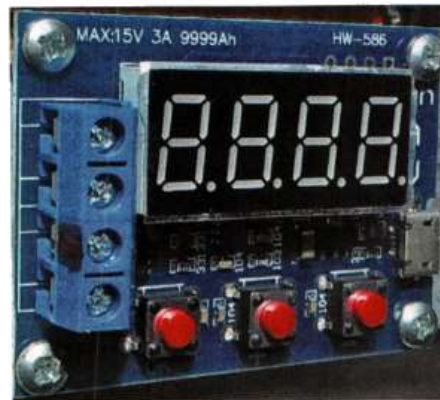


Figure 1 — The module as received. We marked the negative (-) battery terminal with an indelible pen prior to mounting the circuit card module for identification. The polarity of the battery is very important. The terminals are labeled on the bottom of the board. Once it is mounted, the labels can't be seen.

ZB2L3/HW-586 Module Specifications

Power supply: 5 V at 70 mA (micro-USB connector)
 Tests batteries from 1 – 15 V
 Termination voltage range: 0.5 – 11.0 V
 Maximum supported battery drain current: 3 A
 Maximum voltage measurement error: 1% + 0.02 V
 Maximum current measurement error: 1.5% ± 0.008 A
 Maximum battery capacity range: 9,999 Ah
 Board size: 2 × 1.5 inches (50 × 37 millimeters)
 Board net weight: 1 ounce (28 grams)

(Continued on next page)

ARRL News (Continued) **Inexpensive Battery Analysis** (Continued)

Figure 2 — The mechanical mounting of the load resistor and module. The standoffs provided used metric screws and were threaded. We used sheet metal self-tapping screws, because the heatsink was soft aluminum.

Improving the Module

Before beginning the project, collect the necessary materials, as shown in the sidebar, “Recommended Parts List.”

To build your tester, you should mount the components on an aluminum heatsink (see Figure 2). We opted for an 8 Ω , 100 W resistor. It draws 1.5 A at 12 V, and it gets very hot. Don't use the 7.5 Ω , 5 W resistors that may be included with the product. They are very underrated. [Testing a large 12 V battery will dissipate 18 – 20 W over an extended period of time, so a larger heatsink and/or a small fan would be a good idea. Putting the assembly in an enclosure with restricted air circulation is a bad idea. — Ed.]

As the resistor gets hot, it will change value; however, the ZB2L3 will compensate for the thermal change. Use heavy-gauge wire for the interconnections to keep voltage drops to a minimum. Depending on the capacity of the battery, testing can take several hours, or in the case of a good 105 Ah deep-cycle fishing battery, it can take days. After all, you are depleting the battery at 1.5 A. (105 Ah / 1.5 A = 70 hours).

To use, first fully charge your battery properly, whether it is a 12 V car battery, gel-cell, AGM, or deep-cycle type. We used a DieHard microprocessor-controlled charger. Smaller cells, such as the 3.7 V LiPo and 1.2 V NiMH types, should be charged using the manufacturer's recommended charger.

Keep a log of the batteries you check. You may find it valuable if something doesn't seem quite right, or you're wondering if your battery is no longer up to full capacity.

Recommended Parts List

ZB2L3 or HW-586 module
 8 Ω , 100 W heatsink mountable resistor
 4 × 3 × 1-inch heatsink, or similar
 #16 AWG wire
 Heat-shrink tubing to fit resistor leads
 Micro-USB cell phone charger 5 V, 1 A
 Alligator clips, 1 red and 1 black
 Powerwerx red/black bonded zip cord, #16 AWG wire, 12 – 18 inches
 Self-tapping sheet metal screws for mounting the resistor and module

Test Results

This procedure and low-cost equipment can analyze and test batteries with repeatable results. We have tested many batteries with this setup. Medical-grade 12 V batteries — even used ones — were very good when using 10.5 V as the depletion set point. Some economy 12 V batteries underperformed. Chinese 18650, 3.7 V cells from eBay were much less than their claimed mAh capacity.

Detailed results of the tests and useful battery information can be found on the *QST* in Depth web page at www.arrl.org/qst-in-depth. There is also a diagram of the project tester and suggestions about how to keep records of your tests.

ARRL Life Member Lawrence “Larry” Macionski, W8LM, has been licensed for 55 years. He is a retired Senior Field Engineer from Maintech Inc. Larry lives on a 25-acre cattle ranch in Mulvane, Kansas, and enjoys traveling across the US with his HF radio in his car. In the 1980s, he wrote a CW send-and-recv program for the Commodore VIC-20 home computer. He now focuses on DIY, Arduino, and Raspberry Pi projects. He mentors new hams, and for 12 years, he has been an ARRL Volunteer Examiner Team Leader at Veterans of Foreign Wars Post 3115 Amateur Radio Club and maintains their repeaters. He is Trustee of the N8NCC Memorial Club, and a charter member of the 3905 Century Club. He monitors 146.52 MHz. He can be reached at w8lm@arrl.net.

Alex Mendelsohn, AI2Q, has been licensed since 1959. He is an ARRL, RSGB, and FOC member. He founded the New England Radio Discussion Society. Alex holds an FCC General Radio Operators License and is certified by the International Society of Certified Electronics Technicians (ISCET). Now retired, Alex taught electronics at Grumman Data Systems Institute, Briarcliffe College, and the Portsmouth Naval Shipyard. He is a former chief editor for several publications, including *Integrated Circuits* magazine, *EE Product News*, and *Portable Design* magazine. He has a BA in geography from Hofstra University. Alex can be reached at ai2q@arrl.net.

For updates to this article, see the *QST* Feedback page at www.arrl.org/feedback.

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Melissa Stemmer, KA7CLO, mstemmer@arrl.org

At the Foundation

ARRL Foundation Board Approves Funding for Grant Proposals

Following the October 2021 grant submission period, the ARRL Foundation Board voted to approve funding for five grant proposals.

The Miami County Amateur Radio Club (MCARC) received a \$2,000 award to put together six complete soldering kits to allow up to 12 club members to participate in hands-on electronics projects at club tech nights. Their hope is that instructing new and older hams in the hands-on side of amateur radio will encourage the electronics and science side of the hobby.

An \$850 award was given to the Amateur Radio Club of Columbia County (ARCCC), Inc. for equipment for their HAM 101 program. The program's audience is the youth of Columbia County, Georgia. The program's purpose is to teach, and foster an interest in, amateur radio-related concepts. The program will also support youth in understanding STEM subjects and will help students to recognize the potential real-world applications.



The Sussex County Charter School for Technology in Sparta, New Jersey, was awarded \$1,500 to establish the school's first amateur radio club, KD2YAQ, and to get equipment so that students can participate in more radio-related activities. The school's radio and space technology program has also been chosen for an upcoming contact with the International Space Station (ISS) in the Amateur Radio on the International Space Station (ARISS) program.

A grant of \$3,000 was awarded to Comunidad del Bo. Quebradas, Inc. of Yauco, Puerto Rico, for their Amateur Radio Youth Program. The club will offer an amateur radio theory course to help participants obtain their first amateur license. Participants will take part in simple projects, applying basic electronics, radio science, and other technolo-

gies. There will also be a final team project, allowing them to integrate knowledge, creativity, and leadership skills.

ARISS-USA also received a grant. The Foundation awarded \$47,533 to fund the first year of their ARISS Space Tele-robotics using Amateur Radio ("STAR") Keith Pugh Memoriam Project. This is a new 2-year STEM education program, providing opportunities for junior high and high school students. Year 1 of the program will be led by university faculty and undergraduates as they undertake systems development and initial validation, engineering hardware and software, and engaging with ARISS radios on the ISS. Year 2 of the program incorporates youth teams as they participate in hands-on robotics and radio lessons, which ideally will lead to participants earning their amateur radio license.

To learn more about the ARRL Foundation Grant Program, please visit www.arrl.org/amateur-radio-grants or contact Development Manager Melissa Stemmer, KA7CLO, at mstemmer@arrl.org.



Continued on next page

ARRL News (Continued)**ITU Celebrates 2022 World Amateur Radio Day**

In recognition of World Amateur Radio Day, held on April 18, the International Telecommunication Union (ITU) published articles and social media posts highlighting various facets of ham radio. This included an ITU News [interview](#) with Philipp Springer, DK6SP, Chair of the International Amateur Radio Union (IARU) Region 1 Youth Working Group, and the [article](#), "How to become a radio 'ham' in the digital era," by Nick Sinanis, SV3SJ, ITU Study Group Advisor and head of the ITU radio station, 4U1ITU.

Springer, age 24, earned his ham radio license when he was 9 years old. In his interview with ITU News, he explained the variety of operating techniques and social connections is part of what motivates young people to become active in ham radio in an increasingly digital world. "It's technical parts like experimenting with radio science, soldering, developing, and building electronics, in practice and not just theory," he said. "Secondly, it's [the] social part: we are connecting with other communities, meeting radio operators from all around the world. Lastly, we connect with other cultures: we practice foreign languages, visit other countries, and get on the air at so-called 'expeditions.'" Springer is also featured in an ITU video on [YouTube](#).

(Continued on next page)



Philipp Springer, DK6SP (on the right), is Chair of the IARU Region 1 Youth Working Group. He is seen promoting Youngsters On the Air (YOTA) at the 2019 Dayton Hamvention. [Bob Inderbitzen, NQ1R, photo]

ARRL News (Continued) ITU Celebrates 2022

World Amateur Radio Day (Continued)

In his article, Sinanis explained that "ITU plays a key role in amateur radio by overseeing the standardization and regulatory processes of the radiocommunication sector (ITU-R), with special emphasis on its utility in emergency communications." The ITU is the United Nations specialized agency for information and communication technologies, and the International Amateur Radio Union (IARU) contributes to the work of the ITU as a Sector Member. World Amateur Radio Day marks the annual anniversary of the IARU, formed in Paris on April 18, 1925.



The ITU also celebrated World Amateur Radio Day via posts on Twitter:

- twitter.com/ITUradiocomms/status/1515964908894142470
- twitter.com/ITU/status/1515967346334179336
- twitter.com/ITUradiocomms/status/1516077442850557953
- twitter.com/ITUradiocomms/status/1516394912509530118
- twitter.com/ITU/status/1516392416558862343

-- Thanks to Dave Sumner, K1ZZ



(Continued on next page)

ARRL News (Continued)

From: main@vc-acs.groups.io [mailto:main@vc-acs.groups.io] **On Behalf Of** Hanson, Robert - W6RH

Sent: Wednesday, April 20, 2022 9:07 PM

Subject: [vc-acs] **The Most Famous SOS Ever Sent - April 15th, 1912**

If you ever doubt the "real world" importance of the EMCOMM work you're doing, remember this 110-year-old exchange via CW (Morse Code):

APRIL 15TH, 1912:

- 12:22 am -

Titanic to Cape Race:

TO HARRISON SANDFORD, NEW YORK

HELLO BOY. DINING WITH YOU IN

SPIRIT TONIGHT. HEART WITH YOU

ALWAYS. BEST LOVE, GIRL.

GEORGE SIMUND, NEW YORK

WEATHER DELIGHTFUL. FEELING

FINE. HOPE ALL

- 12:27 am -

CQD THIS IS TITANIC

CQD THIS IS TITANIC

CQD THIS IS TITANIC

CQD THIS IS TITANIC

CQD THIS IS TITANIC

CQD THIS IS TITANIC

POSITION 41.44N 50.24W

- 12:27 am -

Frankfurt to Titanic:

WHAT IS THE MATTER?

Titanic:

CQD THIS IS TITANIC

POSITION 41.44N 50.24W

Frankfurt to Titanic:

OK. STAND BY.

- 12:28 am -

Titanic:

CQD CQD THIS IS TITANIC

Mount Temple to Titanic:

WHAT IS THE MATTER?

- 12:28 am -

Titanic to Mount Temple:

CANNOT READ YOU OLD MAN BUT

HERE MY POSITION 41.46N 50.24W

COME AT ONCE. HAVE STRUCK

A BERG.

Mount Temple to Titanic:

RECEIVE WILL TELL CAPTAIN

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

Titanic:

CQD THIS IS TITANIC

CQD

CQD

Mount Temple:

ATTENTION ALL STATIONS:

THIS IS MOUNT TEMPLE

TITANIC SENDING CQD. SAYS

REQUIRES ASSISTANCE. GIVES

POSITION. CANNOT HEAR ME.

ADVISE MY CAPTAIN HIS POSITION

AT 41.46N 50.24W

- 12:28 am -

Cape Race:

ATTENTION ALL STATIONS:

THIS IS CAPE RACE.

TITANIC GIVING POSITION ON CQD

POSITION 41.44N 50.24W

- 12:29 am -

Ypiranga:

ATTENTION ALL STATIONS:

THIS IS YPIRANGA. TITANIC GIVES

CQD HERE: 41.44N 50.24W

REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:

THIS IS YPIRANGA. TITANIC GIVES

CQD HERE: 41.44N 50.24W

REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:

THIS IS YPIRANGA. TITANIC GIVES

CQD HERE: 41.44N 50.24W

REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:

THIS IS YPIRANGA. TITANIC GIVES

CQD HERE: 41.44N 50.24W

REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:

THIS IS YPIRANGA. TITANIC GIVES

CQD HERE: 41.44N 50.24W

REQUIRE ASSISTANCE

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 12:30 am -

ATTENTION ALL STATIONS:
THIS IS YPIRANGA. TITANIC GIVES
CQD HERE: 41.44N 50.24W
REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:
THIS IS YPIRANGA. TITANIC GIVES
CQD HERE: 41.44N 50.24W
REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:
THIS IS YPIRANGA. TITANIC GIVES
CQD HERE: 41.44N 50.24W
REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:
THIS IS YPIRANGA. TITANIC GIVES
CQD HERE: 41.44N 50.24W
REQUIRE ASSISTANCE

ATTENTION ALL STATIONS:
THIS IS YPIRANGA. TITANIC GIVES
CQD HERE: 41.44N 50.24W
REQUIRE ASSISTANCE

- 12:35 am -

Carpathia to Titanic:
DO YOU KNOW THAT CAPE COD IS
SENDING A BATCH OF MESSAGES
FOR YOU?

Titanic to Carpathia:
COME AT ONCE. WE HAVE STRUCK
A BERG. IT'S A CQD OLD MAN.
POSITION 41.46N 50.14W

Carpathia to Titanic:
SHALL I TELL MY CAPTAIN?
DO YOU REQUIRE ASSISTANCE?

Titanic to Carpathia:
YES. COME QUICK

Titanic:
CQD REQUIRE ASSISTANCE
CORRECTED POSITION
41.46N 50.14W
STRUCK ICEBERG.
CQD

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 12:36 am -

Cape Race:

ATTENTION ALL SHIPS:

THIS IS CAPE RACE

TITANIC GIVES CORRECTED POSITION

41.46N 50.14W

CALLING HIM. NO ANSWER.

Burma to Titanic:

WHAT IS YOUR POSITION?

Titanic to Burma:

POSITION 41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH AN

ICEBERG. SINKING.

CAN HEAR NOTHING FOR NOISE OF
STEAM.

- 12:38 am -

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF
STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF
STEAM.

(Continued on next page)

ARRL News (Continued) Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

Titanic to Ypiranga:

TITANIC CQD

HERE CORRECTED POSITION

41.46N 50.14W

REQUIRE IMMEDIATE ASSISTANCE.

WE HAVE COLLISION WITH ICEBERG.

SINKING.

CAN HEAR NOTHING FOR NOISE OF

STEAM.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 12:39 am -

Titanic:

TITANIC CQD

I REQUIRE ASSISTANCE IMMEDIATELY.

STRUCK BY ICEBERG IN 41.46N 50.14W

- 12:40 am -

Caronia to all ships and Baltic:

CQD TITANIC STRUCK ICEBERG

REQUIRE IMMEDIATE ASSISTANCE.

Mount Temple to Titanic:

OUR CAPTAIN REVERSES SHIP.

WE ARE ABOUT 50 MILES OFF.

- 12:44 am -

Frankfurt to Titanic:

POSITION 39.47N 50.10W

Titanic to Frankfurt:

ARE YOU COMING TO OUR

ASSISTANCE?

Frankfurt to Titanic:

WHAT IS THE MATTER WITH YOU?

Titanic to Frankfurt:

WE HAVE STRUCK AN ICEBERG AND

SINKING. PLEASE TELL CAPTAIN TO

COME.

Frankfurt to Titanic:

OK. WILL TELL THE BRIDGE RIGHT

AWAY.

Titanic to Frankfurt:

OK. YES QUICK.

- 12:45 am -

Titanic to Carpathia:

WE REQUIRE IMMEDIATE ASSISTANCE.

Carpathia to Titanic:

OLD MAN WE ARE 58 MILES OFF.

Titanic to Carpathia:

ALRIGHT OLD MAN

Olympic to Titanic:

SENDING SERVICE MESSAGE

OLYMPIC TO TITANIC

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 12:49 am -

Carpathia to Titanic:

DON'T YOU HEAR OLYMPIC CALLING YOU?

Titanic to Carpathia:

NO OLD MAN I CAN'T READ HIM FOR RUSH OF AIR AND NOISE OF STEAM.

- 12:50 am -

Carpathia to Titanic:

PUTTING ABOUT AND HEADING FOR YOU. EXPECT TO ARRIVE ON FOUR HOURS.

Titanic to Carpathia:

RECEIVED THANKS OLD MAN.

- 12:55 am -

Titanic to Olympic:

SOS

Titanic:

CQD SOS THIS IS TITANIC WE HAVE STRUCK ICEBERG SINKING FAST. COME TO OUR ASSISTANCE.

Titanic to Californian:

CQD CQD STRUCK ICEBERG. SINKING. REQUIRE IMMEDIATE ASSISTANCE.

Cape Race to Californian:

SOS FROM TITANIC CQD IN 41.46N 50.14W WANTS IMMEDIATE ASSISTANCE.

- 12:59 am -

Titanic:

CQD CQD THIS IS TITANIC I REQUIRE IMMEDIATE ASSISTANCE. POSITION 41.46N 50.14W

Caronia to Baltic:

SOS CQD TITANIC IN 41.46N 50.14W WANTS IMMEDIATE ASSISTANCE.

Baltic to Caronia:

RECEIVED

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 1:03 am -

Mount Temple to all ships:

TITANIC CALLING SOS

Titanic:

CQD CQD SOS SOS SOS CQD CQD

THIS IS TITANIC 41.46N 50.14W

- 1:10 am -

Olympic:

WHO HAS STRUCK AN ICEBERG?

Titanic:

THIS IS TITANIC

WE HAVE STRUCK AN ICEBERG.

POSITION 41.46N 50.14W

TELL CAPTAIN.

Olympic to Titanic:

RECEIVED OK

- 1:12 am -

Titanic:

CQD CQD SOS SOS

- 1:13 am -

Titanic to Asian:

WANT IMMEDIATE ASSISTANCE.

POSITION 41.46N 50.14W

Asian to Titanic:

RECEIVED

Virginia to Titanic:

WHAT IS THE MATTER?

Cape Race to Virginia:

REPORT TO YOUR CAPTAIN TITANIC

HAS STRUCK ICEBERG AND REQUIRES

IMMEDIATE ASSISTANCE.

Virginia to Cape Race:

RECEIVED

Titanic:

[Signals jammed]

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 1:15 am -

Carpathia to Titanic:

WE ARE COMING YOUR WAY

COMING AT FULL SPEED

DOING 15 KNOTS

Titanic to Carpathia:

RECEIVED

Titanic:

[Multiple signals jammed]

- 1:21 am -

Olympic to Titanic:

[Signal jammed]

Titanic to Olympic:

WE ARE IN COLLISION WITH A BERG

SINKING HEAD DOWN

Titanic:

[Multiple signals jammed]

Olympic to all ships:

[Signals jams]

Olympic:

STOP TALKING

STOP TRANSMITTING

JAMMING

ALL STATIONS STOP TALKING

Titanic to Olympic:

CAPTAIN SAYS GET YOUR BOATS

READY

WHAT IS YOUR POSITION?

- 1:25 am -

Baltic to Caronia:

PLEASE TELL TITANIC WE ARE

MAKING TOWARDS HER. WE ARE

243 MILES EAST OF TITANIC.

- 1:30 am -

Virginia to Cape Race:

WE ARE GOING TO TITANIC'S

ASSISTANCE.

WE ARE 170 MILES NORTH OF

TITANIC.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

Cape Race to Titanic:

VIRGINIA IS GOING TO YOUR ASSISTANCE. THEIR POSITION 170 MILES NORTH OF TITANIC.

Titanic to Cape Race:

RECEIVED

- 1:35 am -

Caronia to Titanic:

BALTIC COMING TO YOUR ASSISTANCE.

Titanic to Baltic:

CAPTAIN SMITH SAYS GET ALL YOUR BOATS READY. SINKING.

Caronia:

THIS IS CARONIA TITANIC WE ARE MAKING FOR YOU. KEEP IN TOUCH WITH US.

Titanic to Caronia:

RECEIVED

- 1:37 am -

Olympic to Titanic:

POSITION 40.52N 61.18W ARE YOU STEERING SOUTHERLY TO MEET US?

Titanic to Olympic:

WE ARE PUTTING THE WOMEN OFF IN THE BOATS.

Olympic to Titanic:

RECEIVED

- 1:40 am -

Titanic:

WE ARE PUTTING THE WOMEN OFF IN THE BOATS.

WE ARE PUTTING PASSENGERS OFF IN SMALL BOATS

WOMEN AND CHILDREN IN BOATS.

CANNOT LAST MUCH LONGER. LOSING POWER.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 1:45 am -

Olympic to Titanic:

WHAT WEATHER HAVE YOU HAD?

Titanic to Olympic:

CLEAR AND CALM

Titanic:

THIS IS TITANIC

ENGINE ROOM GETTING FLOODED

ENGINE ROON GETTING FLOODED

Frankfurt to Titanic:

ARE THERE ANY BOATS AROUND

YOU ALREADY?

Titanic:

CQD SOS CQD SOS CQD SOS

ENGINE ROOM FLOODED

ENGINE ROOM FLOODED

CQD SOS CQD SOS

- 1:47 am -

Baltic to Titanic:

BALTIC COMING 200 MILES EAST

WE ARE RUSHING TO YOU

- 1:50 am -

Olympic to Titanic:

AM LIGHTING UP ALL POSSIBLE

BOILERS AS FAST AS WE CAN.

Cape Race to Virginia:

PLEASE TELL YOUR CAPTAIN THIS:

OLYMPIC IS MAKING ALL SPEED

FOR TITANIC BUT OLYMPIC IS 500

MILES AWAY FROM HER. VIRGINIA

YOU ARE MUCH CLOSER TO TITANIC

TITANIC IS ALREADY PUTTING WOMEN

OFF IN THE BOATS AND HE SAYS THE

WEATHER IS CALM AND CLEAR. THE

OTHERS MUST BE A LONG WAY FROM

TITANIC.

Virginia to Cape Race:

OK. PUTTING ON SPEED.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 1:53 am -

Titanic:

CQD CQD SOS SOS

THIS IS TITANIC

- 1:54 am -

Carpathia to Titanic:

BALTIC COMING TO YOUR
ASSISTANCE.

- 1:55 am -

Titanic to Carpathia:

COME AS QUICKLY AS POSSIBLE
OLD MAN. THE ENGINE ROOM
IS FILLING UP TO THE BOILERS.

Carpathia to Titanic:

RECEIVED

- 1:57 am -

Frankfurt to Titanic:

ARE THERE ANY BOATS AROUND
YOU ALREADY?

- 1:58 am -

Titanic:

CQD CQD CQD SOS SOS SOS

CQD THIS IS TITANIC

Titanic to Carpathia:

COME QUICK.

SHE'S TAKING ON WATER.
IT'S FILL UP TO THE BOILERS.

Carpathia to Titanic:

ALL OUR BOATS ARE READY.
WE ARE COMING AS HARD AS WE
CAN OLD MAN.

DOUBLE WATCH ON ENGINE
ROOM. HAVE YOUR LIFEBOATS
READY WHEN WE ARRIVE.

Titanic to Carpathia:

COME AS QUICKLY AS POSSIBLE
OLD MAN

Titanic:

CQD SOS SOS SOS CQD

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 2:00 am-

Frankfurt to Titanic:

WE ARE 100 MILES OFF.

WHAT IS THE MATTER WITH YOU?

Titanic to Frankfurt:

FOOL. YOU FOOL. STAND BY.

STAND BY. STAND BY AND KEEP
OUT. KEEP OUT.

Baltic to Caronia:

WE ARE HEADING FOR TITANIC
BUT I CAN'T AGREE TO SIGNALS.

Caronia to Baltic:

TITANIC GIVES CQD AND SOS
HER ENGINE ROOM IS FILLING
UP TO THE BOILERS.

Asian to Cape Race:

HAVE CALLED TITANIC BUT NO
REPLY. HE CANNOT HEAR ME.

- 2:05 am -

Baltic to Cape Race:

TITANIC SIGNAL IS WEAK.
DO YOU HAVE NEWS OF TITANIC?

Cape Race:

WE HAVE NOT HEARD FROM
TITANIC FOR ABOUT HALF AN
HOUR. HIS POWER MAY BE GONE.

- 2:10 am -

Titanic:

CQD CQD THIS IS TITANIC

- 2:10 am -

Titanic:

CQD TITANIC

WE ARE SINKING FAST.

PASSENGERS ARE BEING PUT IN
BOATS. TITANIC

- 2:12 am -

Virginia to Titanic:

CANNOT READ YOUR SIGNAL.

YOU NEED TO TRY YOUR
EMERGENCY SET.

(Continued on next page)

ARRL News (Continued) **Subject: [vc-acs] The Most Famous SOS Ever Sent - April 15th, 1912 (continued)**

- 2:14 am -

Titanic:

SOS SOS CQD CQD TITANIC

- 2:15 am -

Titanic:

CQD THIS IS TITANIC

CQD THIS IS

[Transmission dead]

- 2:20 am -

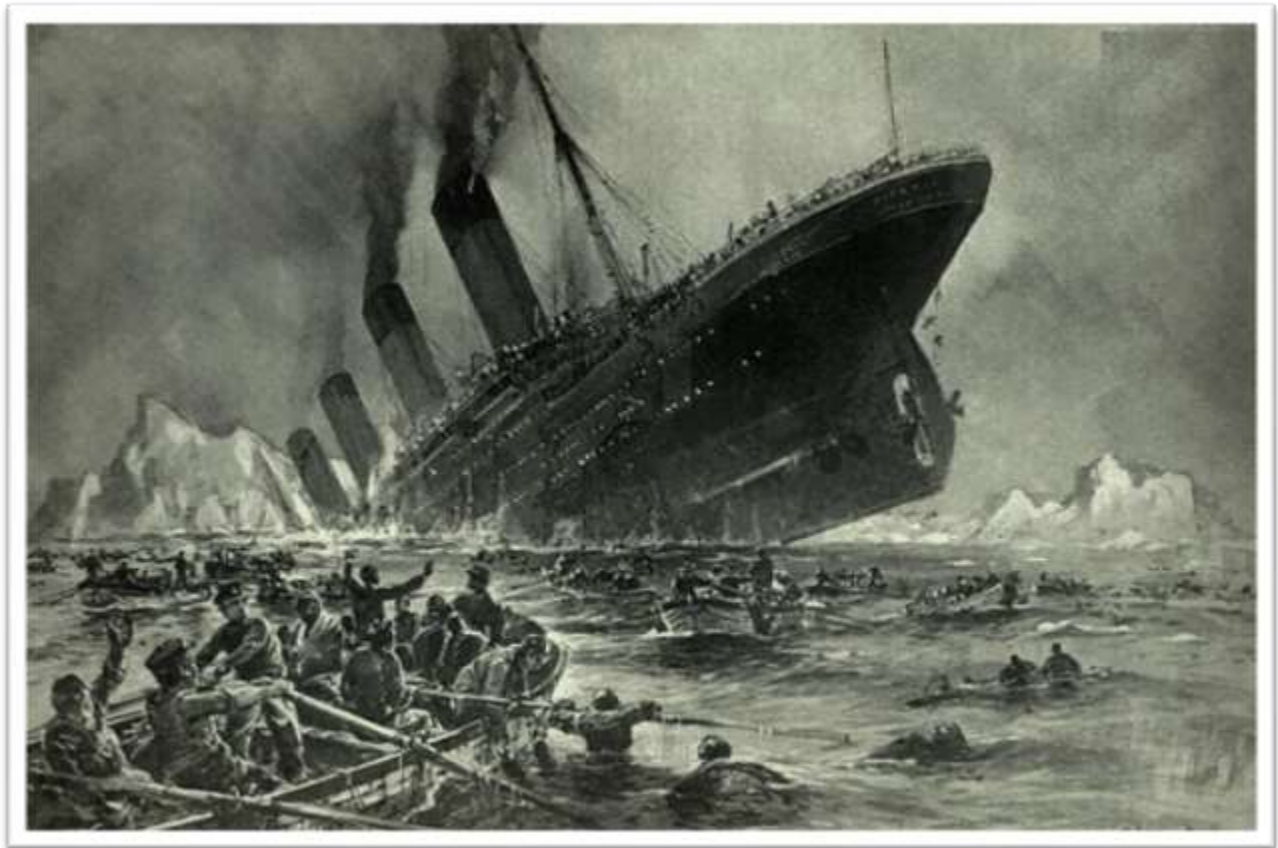
[Titanic disappears]

- 3:35 am -

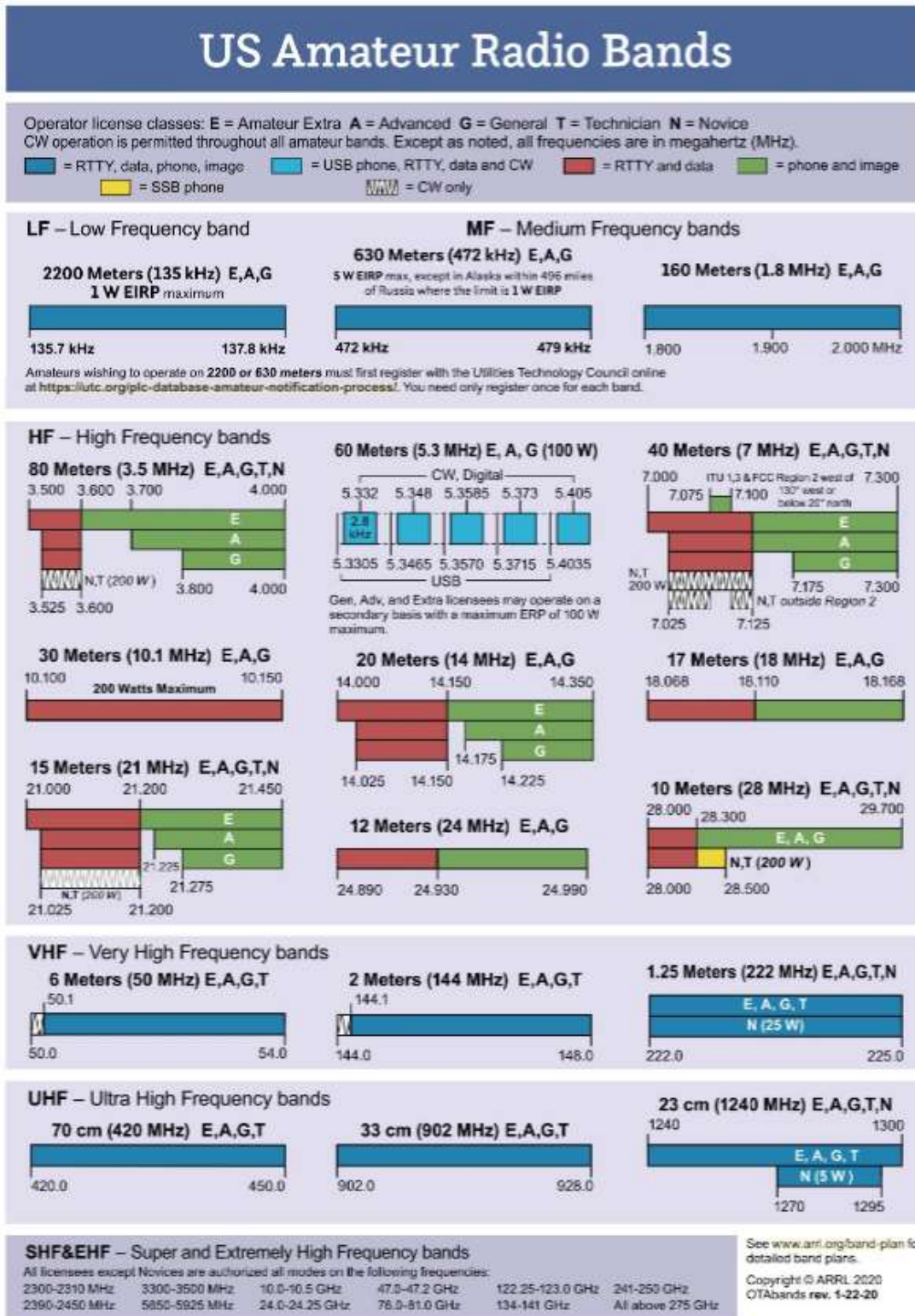
[Carpathia arrives]

- 4:10am -

[Carpathia begins picking up the 712 survivors]



US Amateur Radio Bands



W1AW Schedule

W1AW Schedule

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

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

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

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

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

Code bulletins are sent at 18 WPM.

For more information, visit us at

www.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).

