



The Transponder



The monthly newsletter of the [Hughes Amateur Radio Club, W6HA](#)
- An ARRL affiliated club -

February 17, 2023

Repeater: 445.620 – PL 127.3

Website: W6HA.org

Vol. L, No. 2

***** CLUB MEETING (In-Person) *****

***** NEW LOCATION *****

Meeting Notice: Where: ***** El Segundo MASONIC Center *****
Location: **520 Main St., El Segundo, CA 90245**

Date: **Tuesday, February 21, 2023**
Time: **Pre-Meeting: 11:45 Gather, Exchange Greetings [Setup 11:30]**
Meeting Call to Order: 12:00 to 1:00 PM

Featured Presentation:

EME – Earth – Moon – Earth Communications
by Dwayne AB6A

Up Coming Events:

- Feb. 25, 2023, Saturday** - American Martyrs School 5K Race – 7:30 to 9:00 am (See page 3)
- Feb. 25, 2023, Saturday** – ARRL North American RTTY QSOP – Tower Training at RTX
- June 9th, 2023** – SAMO-100 – Pt Mugu to Zuma Trancas Canyon & back –Comm Spt.
- 2023** – Hughes ARC’s 50th Anniversary Year as a Radio Club – Operating Event ?

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Lunch:

Pizza: 1 Large Veggie; 1 Lrg Pepperoni; 1 Lrg Special; 1 Lrg Sausage, (\$3.50/slice)
Prices: 2 slices of Pizza w/salad, \$8.00; 1 slice of pizza w/salad \$5.00; Salad only \$4.00
Sodas: Coke, Coke Zero & Ginger Ale (\$1.00) – 16 oz Water (50 cents)

Nets on the Club’s Repeater: (See Last page for details)

Wednesday Evenings at 7:30 PM – Trivia Net on Repeater (then Simplex @ 146.550), then C\$FM Digital
Thursdays Noon (12:05 PM) RTX & others Em Comm Teams (ECT) -1st Thursday Formal – others Round Table

Transponder Deadline for Submittal of Articles: Wednesday, before next meeting

Club News:

Presidents Corner:

It has been another busy month for the Hughes ARC. The Sean O'Brian Ultra Race was a big success. The Sean O'Brien race has 100k/50mi/50k/26.2mi/30k Trail Runs and we had eleven radio volunteers from Hughes & Santa Barbara Amateur Radio Clubs & Riverside RACES. I was at the Aid Station called Bonzil. Which is actually at the Zuma Canyon trail head. It is a challenging location since it is literally surrounded by hills. I was working with Wayne, AF6GX from the Santa Barbara Amateur Radio Club. Wayne had a very nice military surplus push up mast with a base he had made himself. First we tried his J-Pole but had no luck accessing the temporary repeater that Dale WB6MMQ had set up at 5:00 AM. So we tried a four element 2M beam and it did not work well either but as we were lowering the push up pole we started hearing John N6JLS clearly. So, we left it at that height for the duration of the race. I always thought that the higher the antenna the better but in this instance that was not the case.

I guess what I am trying to say is that even someone who has been a ham for 40 years can learn something new. And operating in less-than-ideal conditions forces you to come up with innovative solutions to problems. Participating in these events is a great experience and I encourage everyone to give it a try.

73 DE AB6UI,
Brian

Contests/Special Events: Feb/Mar & All of 2023

February:

ARRL North American QSO Party – Three

Flavors: CW: Jan. 14th to Jan. 15th ; SSB: Jan. 21st to Jan. 22nd ; **RTTY: Feb. 25th to Feb. 26th**

All start on Saturday at 10 AM (1800 UTC) and end on Sunday evening at 9:59 PM (0559).

The North American QSO Parties are favorites of beginners and seasoned operators alike. The NAQPs are low-power only (no amplifiers allowed) which makes for a lot more breathing room on the bands. Small stations can generate very effective “runs” in the NAQP contests. Multipliers count once per-band, which makes for an exciting format, as multipliers can be “moved” from band to band. The NAQPs allow stations from all parts of North America to be in the running for the top

spots. The 12 hour format allows participants to do some great contesting, yet still have time for other activities during the weekend. Participants can enter in the single op or multi-op categories and also have the opportunity to combine up to five separate single op scores into a team score. [Rules](#)

March:

ARRL International DX Contest – SSB

March 4 -5 (0000z -2359z)

Objective: To encourage W/VE stations to expand knowledge of DX propagation on the HF and MF bands, improve operating skills, and improve station capability by creating a competition in which DX stations may only contact W/VE Stations. Use only the 160, 80, 40, 20, 15, and 10 meter bands.

W/VE amateurs: Work as many DX stations in as many DXCC entities as possible. **DX stations:**

Work as many W/VE stations in as many of the 48 contiguous states and provinces as possible. [Rules](#)

All of 2023:

ARRL Volunteers On the Air Jan to Dec '23

(See article, this page, below)

3Y0J Bouvet Island News 15 Feb. 2023

Today the 3Y0J team are set to sail to Cape Town, South Africa. If the weather is not bad they may end up sailing around Bouvet Island. They are expecting to arrive in Cape Town around February 23. Plans are to have a dinner and spend one night before continuing home. "ALL log checks shall be directed to QSL Manager Charles MOOXO."

LA7GIA, Ken, posted the following to Facebook earlier today: We activated Bouvet Island in extremely difficult conditions! Now that we leave Bouvet with mixed feelings, we also know that we did what we could to get Bouvet on the air.

Four members went ashore at Bouvet on 31 January in good conditions to set up the climbing route and install an unmanned zodiac rope system between a buoy and the beach, so that we could land equipment also in rough surf. During the day the surf increased, and the extraction of the team members was aborted, and we were thus stranded on Bouvet late in the evening. During 3 nights we slept outdoors under the open sky in cold and difficult conditions with little or no supplies. We prepared a simple emergency shelter on the island where we stayed (tarp). During the second day we got some supplies in a risky zodiac operation in high swell. We lost several objects in the surf and punctured the zodiac. The conditions on the beach were terrible. Due

to the coming storm, we evacuated back to Marama on day 4.

Despite this, we decided to go ahead and scale down DXped. We could not fight against Bouvet, but had to adjust to the weather and go ashore when Bouvet allowed us. We called it "Picolite DXped" as pictures will show you we operated with 100W from a single tent, no chairs and no table, 60m coax, no amp, simple antennas, small generator etc. Our 2 Elecraft K3 radios were stacked on top of a bucket turned upside down, and we sat on the ground operating. All our wet clothes were dried outdoor on the rocks, and we had very limited heating. We went through a storm of 55 knots, but our tent had no problem with the wind-force! The spiderpoles and the DX Engineering antennas also survived the storm w/o any issue.

We only took the equipment we needed, 620 kg in total including supplies. All our supplies to the island were via a rope attached to a buoy 100 meters from shore to beach. All objects were hooked to the line and floated to shore by team members pulling the rope. We named it the gym. The team members also went ashore in survival suits hooked to the line and floating to shore. What an experience!!

Radio Operation: Pileup was difficult as our signals were weak. We had good reception and very often we called 3 to 5 times to log a qso.

Many DXers called us but couldn't hear us, how frustrating! We focused on fewer bands to maximize ATNO and looking at the stats we achieved

19,000 QSOs and 50% unique calls. And many dupes! Many are satisfied, but some are also disappointed by the performance of either the team or the DQRMers. We had issues with the FT8 due to we did not have any device to sync against, and our clock were 14 seconds off - which meant we at some time were TX odd, while we thought it was even.

As for Bouvet, there is no guarantee at all, whether you use two helicopters or zodiac! We could have wanted to make more contacts, but safety was and will always be more important than trying to push our limits in a risky environment. In the coming months, you will be invited to hear more of our stories at conventions and in articles. LA7GIA, Ken

American Martyrs School 5K Race, Saturday, February 25th, 7:30 to 9 AM, Hams needed.
Contact John, N6JLS, jkeller@ix.netcom.com

ARRL Letter - Excerpts of Possible Interest

ARRL Volunteers On-the-Air Event is Underway

***** California is in Progress *****

ARRL's yearlong operating event, [Volunteers On the Air](#), or VOTA, began January 1, 2023. The event is organized as part of ARRL's 2023 theme, "Year of the Volunteers," which recognizes the contributions of ARRL member volunteers, and offers opportunities to become more active and involved in amateur radio and ARRL.



VOTA encourages participants to make contacts with ARRL members and volunteers, earning points for each contact. Point values have been assigned (see the Points Table at vota.arrl.org). All scoring is automatically calculated through ARRL's Logbook of The World (LoTW, www.arrl.org/logbook-of-the-world). If you are already an LoTW user, continue to upload your QSOs there to participate. If you're a new LoTW user, visit [Getting Started with LoTW](#).

As part of the event, there will be week-long activations by W1AW portable stations operating in all US states and territories. W1AW/# portable operations are worth 5 points for each contact, and they can be contacted on all bands and modes. There's also an opportunity to earn the W1AW Worked All States Award. There will be two week-long W1AW operations from each of the 50 states.

Later in the event, an on-line scoreboard, the VOTA Leaderboard, will be activated, allowing each participant to see how their score measures up with other participants throughout the year.

Only two-way contacts qualify for points (cross-band, cross-mode, and repeater contacts are not valid), using any mode (CW, phone, or digital) - including EME and satellite operations - on 160, 80, 40, 20, 15, 10, 6, 2, and 1.25 meters, as well as 70 centimeters, VHF/UHF/SHF, and microwave bands available to US amateurs above 2 meters (2190-, 630-, 60-, 30-, 17-, and 12-meter band contacts are not counted for credit in this event).

Join the fun! Visit the official VOTA website for further details: vota.arrl.org.

"Whenever you find yourself on the side of the majority, it is time to pause and reflect."

...Mark Twain

[New General Question Pool Released for Ham Radio Licensing Effective July 1, '23](#) (held over)

The National Conference of Volunteer Examiner Coordinators' (NCVEC) Question Pool Committee (QPC) has released the [2023 - 2027 General Class FCC Element 3 Syllabus and Question Pool](#) to the public. The new General Question Pool is effective July 1, 2023, through June 30, 2027.



The new pool incorporates some significant changes compared to the 2019 - 2023 version. Its 432 questions were modified slightly to improve wording and to replace distractors; 51 new questions were generated, and 73 questions were eliminated. This resulted in a reduction of 22 questions, bringing the total number of questions in the pool down from 454. ...

The [pool](#) is available as a Microsoft Word document and PDF. The single graphic required for the new General Question Pool is available in the documents, or separately as PDF and JPG file formats.

"The newly revised pool must be used for General-class license exams starting July 1, 2023," The ARRL VEC will supply its officially appointed, field-stocked VE teams with new General exam booklet designs around mid-June."

General class examination candidates [using prior materials] are encouraged to test by, or before, June 30, 2023. New editions ... will be available in [May, for exams taken on, or after, July 1, 2023](#)

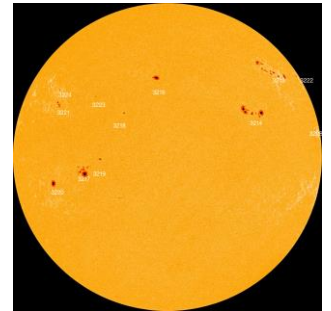
The General - Class Element 3 Question Pool Errata has been released. The National Conference of Volunteer Examiner Coordinators, NCVEC, Question Pool Committee has released the latest errata for the [2023 - 2027 Element 3 General question pool](#), which goes into effect on July 1, 2023. Nine questions were modified (G1B01, G1C01, G1C02, G5C02, G7C10, G9B05, G9C09, G9D09, and G9D10) and two questions (G9C06 and G9D13) were withdrawn from use. The [pool](#) is available as a Microsoft Word document and PDF. These changes are reflected in the new General Pool download file, dated February 1, 2023.

"If you don't find a way to make money while you sleep, you will work until you die."

... Warren Buffett.

[The K7RA Solar Update - ARLP002](#)

Tad Cook, K7RA, of Seattle, Washington, reports for this week's ARRL Propagation Bulletin, ARLP007: At 0725 UTC on February 15, 2023, the [Australian Space Weather Forecasting Centre issued a geomagnetic disturbance](#)



[warning:](#) "A coronal mass ejection (CME) impact occurred around 2200 UTC on February 14. Magnetic field strength (Bz) has been southward for the majority of time since impact, and there is a chance of G1 geomagnetic conditions."

Bz is the north-south direction of the interplanetary magnetic field (IMF).

They predicted a disturbance for February 15 - 16. For the latest geomagnetic conditions, I prefer this source:

<https://www.swpc.noaa.gov/products/planetary-k-index>

More on the IMF: <https://bit.ly/3E6IZ15>

Many sunspots appeared during this reporting week, February 9 - 15: three new sunspot groups on February 9, one more on February 10, two more on February 11, another on February 12, and three more on February 13.

Recent sunspot images:

<https://www.spaceweather.com/images2023/12feb23/hmi1898.gif>

This URL is for February 12. To see February 13, just change the "12feb23" string in the URL to "13feb23," and so on, for any other dates.

Average daily sunspot numbers increased from 95.1 to 182.4, and average daily solar flux from 155.9 to 196.4.

Geomagnetic activity also rose, with average daily planetary A index going from 11.7 to 13.7, and middle latitude numbers from 7.6 to 10.7.

The most active days were at the beginning and end of the week, with planetary A index at 21 on February 9, and at 29 on February 15. On those two days, the college A index at Fairbanks, Alaska, was 33 and 46. The quietest day was Monday, February 13, when the planetary A index was 4.

The outlook for the next month looks a bit more modest, with predicted solar flux at 175 and 172 on

February 16 - 17; 170 on February 18 - 19; 165 on February 20; 160 on February 21 - 23; 130 on February 24 - 26; 140 on February 27 to March 1; 145 on March 2 - 3; 150, 155, and 165 on March 4 - 6; 180 on March 7 - 13; 170 on March 14 - 15; 160 on March 16 - 18; and 150 on March 19.

Predicted planetary A index is 18, 22, 30, and 12 on February 16 - 19; 5 on February 20 - 21; 8 on February 22; 10 on February 23 - 24; then 5, 5, and 8 on February 25 - 27; 5, 5, and 8 again on February 28 through March 2; 5, 5, and 16 on March 3 - 5; 18, 15, and 8 on March 6 - 8; and 5 on March 9 - 20. Sunspot numbers for February 9 through 15, were 150, 190, 209, 197, 185, 206, and 140, with a mean of 182.4. The 10.7-centimeter flux was 214.9, 207.8, 209.5, 199.7, 189.2, 179.7, and 173.7, with a mean of 196.4. Estimated planetary A indices were 21, 16, 11, 7, 4, 8, and 29, with a mean of 13.7. Middle latitude A index was 16, 12, 10, 5, 3, 6, and 23, with a mean of 10.7.

73, K7RA

Send your tips, questions, or comments to k7ra@arrrl.net.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean..." and [check out](#) the Propagation Page of Carl Luetzelschwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

[Share](#) your reports and observations

Just Ahead in Radiosports

(T=Contest; P=Party, S=Sprint)

A Year-long - operating event - [ARRL Volunteers On the Air \(VOTA\)](#) - recognizes ARRL volunteers See also the State Activations Schedule for weekly [W1AW Portable Operations](#) including these:

Feb 15 - 21 -- Wisconsin, W1AW/9

Feb 15 - 21 -- California, W1AW/6

Feb 22 - 28 -- Michigan, W1AW/8

Feb 22 - 28 -- Florida, W1AW/4

Feb 16 - 17 -- Walk for the Bacon QRP T (CW)

Feb 18 - 19 -- ARRL International DX T, (CW)

Feb 18 - 19 -- Russian PSK WW T (digital)

Feb 18 -- Feld Hell Sprint (digital)

Feb 19 -- FISTS Sunday Sprint (CW)

Feb 19 - 20 -- Run for the Bacon QRP T (CW)

Feb 20 -- OK1WC Memorial (MWC) (CW)

Feb 22 -- SKCC Sprint (CW)

Feb 22 -- UKEICC 80-Meter T (CW)

Feb. 25 - 26 - ARRL NA QSO Party – RTTY

Mar 4 -5 ARRL International DX T - SSB

See the [ARRL T Calendar](#) for more information. For in-depth reporting on Amateur Radio contesting, subscribe to [The ARRL Contest Update](#) via your ARRL member profile email preferences. All dates & times are UTC.

ARRL Section, State and Division Conventions / Hamfest

In the West or near members anywhere: **Conventions are back strong!!! Nine listed in the ARRL letter this month!!!** These six are near members or friends of the club in various places.

March 3 - 4 | [BirmingHamfest](#), hosting the ARRL Alabama Section Convention, Trussville, Alabama
March 18 | [Charleston Area Hamfest](#), hosting the ARRL West Virginia Section Convention, Charleston, West Virginia

April 15 | [Sussex Amateur Radio and Electronics Expo](#), hosting the ARRL Delaware State Convention, Georgetown, Delaware.

Search the [ARRL Hamfest and Convention Database](#) to find events in your area.

A list of all ARRL-sanctioned hamfests and conventions is published at www.arrrl.org/hamfests and includes these upcoming events:

In Brief...

VOTA operations continue at a brisk pace, with tens of thousands of volunteer and W1AW portable contacts having been made. All points for VOTA scoring must come through Logbook of The World uploads. As announced in the January 2023 issue of *QST*, this is not a QSL card event (there will not be any W1AW portable state activation VOTA QSL cards issued from ARRL Headquarters). Please do not send W1AW portable VOTA QSL cards for VOTA contacts to ARRL Headquarters. W1AW portable VOTA QSL cards received by ARRL Headquarters will not be acknowledged.

Announcements

The [EZNEC](#) antenna-modelling software by Roy Lewallen W7EL, is now a free download.

The 6th Annual Amateur Radio Science Citizen Investigation (HamSCI) Workshop will be held March 17 - 18, 2023, in person at The University of Scranton and virtually via Zoom. The workshop is open to students and citizen scientists, and all amateur radio operators are invited to attend. The theme of the 2023 HamSCI workshop is "Forging Amateur-Professional Bonds." The primary objective is to bring together the amateur radio community and professional scientists. This year, the workshop will feature a working special event amateur radio station using the call sign W3USR. In-person participants can stop by the station to operate or learn about how an amateur radio

station works. The Murgas Amateur Radio Club, K3YTL, is organizing and running the W3USR special event station. The 2023 HamSCI workshop is organized by The University of Scranton with generous financial support provided by the United States National Science Foundation and Amateur Radio Digital Communications. HamSCI is an officially recognized NASA citizen science project. Registration for the in-person workshop is now open. and will close on Monday, March 6, 2023. Virtual participation is free of charge. For more registration information visit [HamSCI](#).

ARES Letter - Excerpts of Possible Interest

All Aboard the CERT Train

The Community Emergency Response Team (CERT) concept is a major, growing concern in the quickly evolving arena of emergency management on a micro versus macro scale, and deserves the full attention of ARES -- and indeed any radio amateur -- as a top priority for the coming year.

CERT is the wave of the future -- the immediate future - - as limited resources for disaster response at all levels of government (local, state, and federal) are bumping up against the ever-increasing needs of the populace due to the elevating incidence and ferocity of natural and manmade disasters. The CERT concept is part of the answer to this dilemma: residents on a street or in an apartment complex will network and be trained to take care of themselves in the first critical post-disaster hours and possibly days when no outside help is available. Think of the CERT program as a kind of block party, only instead of socializing over hot dogs and hamburgers, neighbors get together to train and plan to look after each other when dealing with the effects of a disaster. When you really think about this concept, it has implications that are of a serious, life-and-death nature.

The CERT program is a FEMA program, part of its Citizen Corps and Ready campaigns, but had its origins in forward-thinking fire and EMS units in southern California decades ago. Neighbors are trained in conducting an initial assessment of their own homes and survival kits. They learn to reduce the immediate dangers presented by a disaster by turning off utilities, suppressing small fires, evacuating the area, and helping others. They learn to treat people in the immediate area. They learn to implement their own Incident Command System -- they establish a command post, staging area, and medical triage and treatment areas. They learn to collect damage information and develop a plan of operation based on life-saving priorities and available resources.

And they learn to establish and maintain communications with responders and the outside world.

The radio amateur, especially an ARES-registered operator, is the ideal candidate for forming and leading a neighborhood Community Emergency Response Team. A critical part of the CERT's planning and operations is radio communications, and we as radio amateurs have the experience and credibility for this emergency support function out of the gate. Become a CERT leader! Every journey of recruiting a dozen homes on a street for a CERT begins with the first, perhaps your next door neighbor. Talk to him or her "over the fence" and start planning and drafting your team. Read and use the FEMA publication [CERT User Guide](#). There are many resources to help you! You can start with [FEMA's Independent Study Course on CERT](#). A reader recently called my attention to a new library of disaster-related training with numerous videos, including several on *Neighborhood Preparedness and Response*. I haven't had a chance to review the materials yet, but I will. The library can be accessed at the [Just In Time Disaster Training](#) website.

FEMA has a number of resources available to the CERT members/leader. You can get the [CERT National Newsletter](#) and [Search CERT programs by location](#).

You can [register](#) a new CERT *program* with FEMA online. This page is for registering CERT programs only, however, not to register individuals or individual teams sponsored by a local CERT program. To be an official CERT program, the program must be operated by a local emergency response organization such as your local Fire Department or Office of Emergency Management and endorsed by the local Citizen Corps Council, if your community has one. The program coordinators must conduct the CERT Basic Training Course and hold a CERT exercise at least once a year. There must be a point of contact to be posted with other program information on the national CERT website.

Search to find a CERT program in your locale to help you set up and establish your neighborhood CERT. The CERT concept can also be extended to workplaces -- the same ideals apply!

Conclusion: You are On Your Own! "Winging It is Not an Emergency Plan"

The government's promotional language often reads like this: "When a disaster or overwhelming event occurs and responders are not immediately available, CERTs can assist..." Let's examine what they're really saying in plain terms: When your house and family are in immediate danger in the first minutes and hours after a disaster, you are on your own. There will likely be no EMS, fire, police or any other agency responders to save you and your family and neighbors. Your survival is up to you alone, based on your preparations and the help from

your immediate neighbors on your street. Your chances will be greatly enhanced with an organized neighborhood response -- the kind of response that is at the heart of the CERT concept. Make it your New Year's resolution to form your own neighborhood CERT! -- *Rick Palm, K1CE*

FOR SALE or Trade: RIGBLASTER model M8C multi-mode interface in box. Manual shows hookups for Icom, Yeasu, Kenwood, Ten-Tec and many others. Factory software included. \$ 40.
Contact Richard, WA7KCA @ 424-301-7516

WANTED: COMET/DIAMOND 144/430 base antenna – **Available for Trade:** DIAMOND F-23 big base antenna 145 mHz.
Contact Richard, WA7KCA @ 424-301-7516

FOR SALE: Vibroplex VibroKeyer single lever keys:
1. Tan base standard 1960s sn scale 9 out of 10, Looks Great \$100 obo
2. Chrome base deluxe 1960 sn mid 60s very light pitting on top of base. 8 out of 10. \$100
Contact Richard, WA7KCA @ 424-301-7516

FOR SALE: White Marble Base HEAVY - for straight key or ????? Several sizes \$5ea
Contact Richard, WA7KCA @ 424-301-7516

FOR SALE: Coax, New, RG152/RG316 teflon/silver, 50 ft. with special PL259 reducer \$20
Contact Richard, WA7KCA @ 424-301-7516

FOR SALE: Transceiver, 40 meters, QRP, ¼ to ½ watt (7.030 mHz) w/key, phones & antenna; needs 9-12v Battery; Built into a plastic case, \$20
Contact Richard, WA7KCA @ 424-301-7516

FOR SALE: Beam Antenna, 2 meter, 4 element, Heavy Duty, Mast ready! Vertical or Horizontal mount. Commercial but do not know brand. \$40.00
Contact Richard, WA7KCA @ 424-301-7516

FOR SALE: Crystals – 40 meters - 7.023, 7.122, 7.114, 7.110, 7.045, 7.040, 7.055, 7.050, 7.035; Only 1 of each! \$3.00 Each
Contact Richard, WA7KCA @ 424-301-7516

“When the Object of desire (i.e.money) is something which cannot be produced and the demand for which cannot be readily chocked off, there is no remedy but to persuade the public that green cheese is practically the same thing, and to have a green cheese factory (i.e.central bank) under public control.”

...John Maynard Keynes

Lunch Kitty Financials:		December	2022
Attendance: 14			
		Lunch Kitty, Starting Balance:	\$280.25
Expenses:	Xmas Cake, Plts: =	\$54.75	
	Soda: 11 @ 0.43 =	\$4.75	
	Water: 5 @ 0.25 =	\$1.25	
		Food Total:	\$60.75
			\$219.50
Income:	Lunch: =	\$0.00	\$219.50
Room Rent - To General Fund:		\$0.00	\$219.50
		Starting Kitty for Jan.. 17, 2023 Mtg.	\$219.50
December		Gain / Loss:	\$60.75

Lunch Kitty Financials:		January	2023
Attendance: : 15			
		Lunch Kitty, Starting Balance:	\$219.50
Expenses:	Pizza (3), Salad =	\$104.00	
	Soda: 8 @ 0.44 =	\$3.50	
	Water: 2 @ 0.25 =	\$0.50	
		Food Total:	\$108.00
			\$111.50
Income:	Lunch: =	\$94.00	\$205.50
Room Rent - To General Fund:		\$0.00	\$205.50
		Starting Kitty for Feb. 21, 2022 Mtg.	\$205.50
January		Gain / Loss:	\$14.00

Special Events:

Collins ARC, W0CXX, Engineers Week at W0CXX. Feb. 20 – Feb. 24, 1700z – 1900z, 3.970, 14.263. QSL Engineers Week at W0CXX, 1110 Lyndhurst Dr. Hiawatha, IA 52233. Main operation will be lunch hours (11 AM to 1 PM CST). w0css.kb4sby@gmail.com

WWV - 100 Years of Time & Frequency Broadcasts
Mar. 6 – Mar. 12, 0000z – 2359z WW0WWV; Various towns and states. WWV Amateur Radio Club, all bands, CW, SSB & Digital Modes; 7.048, 7.248, 14.048, 14.248. QSL via WWV ARC, P.O. Box 273226, Fort Collins, CO 80527, LoTW or OQRS. This is an Operating event. <https://wwvarc.org>

Select DX News (QRV = Ready! or Are you Ready?)**ARLD007 DX news** [Note: 'T' = contest]

This week's bulletin was made possible with information provided by W2GD, The Daily DX, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

BOUVET, 3Y. A large group of operators are QRV as 3Y0J. Activity is on 30 to 10 meters using CW, SSB, & FT8 in F/H mode. QSL via M0OXO.

TIMOR-LESTE, 4W. Satoshi, JH2EUV is QRV as 4W/JH2EUV **until March 3** on 40 to 10M using FT8. QSL #1

TOGO, 5V. Eric, F5LCX is QRV as 5V23LE **until February 25**, holiday style on HF. QSL #1.

CHINA, BY. Look for BD1KV to be either a Multi/2 or Multi/Multi entry in the **ARRL International DX CW contest**. QSL direct to home call.

CAPE VERDE, D4. Tony, CT1FFU is QRV as D4T on Sal Island, IOTA AF-086, **until Feb. 22**, holiday style, 80 - 6M on CW, SSB, & FT8 QSL#1

MARTINIQUE, FM. Yuri, VE3DZ is QRV as FM/VE3DZ **until Feb. 21** and active as TO4A in the **ARRL International DX CW T**. QSL #1.

JERSEY, GJ. Matt, MJ0ASP will be QRV as GJ2A as a Single Op/Single Band on 15M entry in the **ARRL International DX CW T**. QSL#4.

SAUDI ARABIA, HZ. Special event stations 7Z3FD, 8Z3FD, and HZ3FD are QRV **until February 22** to celebrate Saudi Arabia's Founding Day. QSL via HZ1SAR.

GUINEA-BISSAU, J5. Livio, IZ3BUR is QRV as J52EC. Activity is on 15 and 10M using mostly SSB. His length of stay is unknown. QSL #1

AUSTRIA, OE. The 4U1A Radio Club are QRV as 4UNR until the **end of Feb.** to commemorate World Radio Day. QSL via UA3DX.

ARUBA, P4. John, W2GD is QRV as P44W **until February 20**, on HF using CW as Single Op/All Band/Low Power entry in the **ARRL International DX CW contest**. QSL via N2MM.

DENMARK, OZ. Special event station OZ625E will be QRV **from Feb. 14 to 28** to commemorate the opening of the new **Enigma Museum of Communications** in Copenhagen. Look for other OZ625E/xx stations to be active as well. QSL #2

BURUNDI, 9U. Elvira, IV3FSG and Vladimir, OK2WX are QRV as 9U5R and 9U4WX, **until Feb. 27**. Activity is on 80 - 6M using CW, SSB, and various digital modes. QSL 9U5R via IK2DUW and 9U4WX via IZ8CCW.

BANABA ISLAND, T33. Norbert, DF6FK and Judith, DL2ZAD are QRV as T33BB & T33BA, **until March 1**. Two stations will be on 160 to 10M using CW & SSB. QSL to DF6FK.

COSTA RICA, TI. Nathan, N4YDU is QRV as TI5/N4YDU from Guanacaste. Activity is on the HF bands. He will be active as TI7W in the **ARRL International DX CW contest**. QSL #1

MICRONESIA, V6. John, V63JB is QRV from Ulithi Atoll, IOTA OC-078. He is a staff member at a local school here. Activity is currently on 30M using FT8 but hopes to expand to 20 SSB. QSL #2

BRUNEI, V8. Hajime, JO1RUR is QRV as V85RH **until Feb. 21**. Activity is on 160 to 10M on CW, SSB, RTTY, FT8, and FT4, as a Single Op/All Band/High Power entry in the **ARRL International DX CW contest**. QSL via LoTW.

COCOS (KEELING) ISLAND, VK9C. Nobby, G0VJG plans to be QRV as VK9CVG **until Feb. 24**, on 80 to 10M, mostly SSB, some CW & FT8. This includes a possible entry in the **ARRL International DX CW T**. QSL via M0OXO.

NORFOLK ISLAND, VK9N. Dom, VK2HJ is QRV as VK9/VK2HJ **until Feb. 20**, on work assignment, on 40 to 10M SSB. QSL via eQSL.

BRITISH VIRGIN ISLANDS, VP2V. Steve, AA7V is QRV as VP2V/AA7V from Tortola, IOTA NA-023, **until Feb. 20**. Activity is on 160 to 10M using CW. QSL #1.

TURKS AND CAICOS ISLANDS, VP5. Bill, AC0W and Pat, K0PC are QRV as VP5/AC0W & VP5/K0PC, respectively, **until Feb. 20**, on HF. They will be QRV as VP5K in the **ARRL International DX CW T**. QSL #1, and VP5K via K0PC.

MYANMAR, XZ. Akio, JE2QIZ is QRV as XZ2B from Yangon, in his spare time on 15, 12, 10, & 6M CW. [**Listed Feb '23 - ed**] QSL via JH3SIF.

INDONESIA, YB. Jozef, ON6HX is QRV as YB9/ON6HX from Lombok Island, IOTA OC-150, **until March 8**, on 80 to 10M all modes. QSL #1.

NEW HEBRIDES, YJ. Bob, W7YAQ and Al, K7AR are QRV as YJ0A from Efate Island, IOTA OC-035, **until Feb. 23** With entry in the **ARRL International DX CW T**. QSL via K7AR.

THE GAMBIA, C5. Andre, ON7YK is QRV as C5YK **until Feb. 24, 2023** holiday style, mostly on 12 & 10M, & then on 20, 17 & 15M using CW and digital modes. QSL #1 or #4

FRANCE, F. Francois, F8DVD is QRV as TM20AAW on Macon until Feb. 24 celebrating the 20th Antarctic Week, on 40 - 10M. QSL #1.

SOLOMON ISLANDS, H4. Bernhard, DL2GAC will be QRV as H44MS on Honiara, IOTA OC-047, **from Feb. 10 to May 8**. Activity will be on 80 to 6M using SSB & FT8. QSL#1

THE GAMBIA, C5. Gerard, F5NVF and Luc, F5RAV will be QRV as C5C **from Feb. 14 to Mar. 14**. Activity will be on 80 to 6M using CW, SSB, and FT8. QSL via LoTW.

GABON, TR. Roland, F8EN is QRV as TR8CR from Libreville **until March 15, 2023**. Activity is on 30 to 10 meters using CW. QSL via F6AJA.

MONTSERRAT, VP2M. Thaire, W2APF is QRV as VP2MDX **until March 28**. Activity is on 80, 40, and 30 meters using CW and SSB. QSL direct to home call.

Long Term (more than 1 month)

THAILAND, HS. Lars, SM6NT is QRV as HS0ZME from Hua Hin and is here **until April 2, 2023**. Activity is on 40 to 10 meters using mainly CW. QSL to home call.

WILLIS ISLAND, VK9/W. Sands, VU2WXW/VK4WXW, is working at the Meteorology Weather Station **until April**. He has been on 40, 20 & 15M and hopes to add 17, 12 & 10M. QSL via Club Log.

WILLIS ISLAND, VK9W. Sands, VK4WXW is QRV as VK9WX **until April 2023** while working as part of a meteorological team. Activity is in his spare time on 20M using SSB. QSL#2.

FEDERAL REPUBLIC OF GERMAN, DA. Special event station DR100XRAY is QRV **until June 30** to commemorate the 100th anniversary since the death of Wilhelm C. Roentgen, the physicist whose discovery of X-rays revolutionized diagnostic medicine. QSL via bureau.

SAINT BARTHELEMY, FJ. Phil, K2LIO is QRV as FJ4WEB **until August 15**. Activity is on 40 to 10 meters using SSB. QSL to home call.

Until End of 2023

ANTARCTICA. Sunny, VU2CUW is QRV as AT42I from Maitri Station **until Dec. 2023**. Activity is holiday style. QSL via VU2CRS.

NORWAY, LA. Special Event station LA100K is QRV from Trondheim during **all of 2023** to commemorate 100 years of the Akademisk Radioklubb, one of the oldest ham clubs in the country. QSL#3

AUSTRALIA, VK. Special event station VI75G is QRV **during all of 2023** to celebrate the 75th anniversary of the Geelong ARC. QSL #4

SWEDEN, SM. Special event station 8S80AA is QRV **during all of 2023** to celebrate the 80th anniversary of the Vasteras Radio Klubb, SK5AA. QSL direct to SM5FUG.

PAPUA NEW GUINEA, P2. David, VK4FABN is QRV as P29DT from Tabubil in the Star Mounts in the North Fly District of the Western Province. Activity is holiday style on 40, 20, 15, and 10 meters using CW and SSB. [**listed Jan., '23 - ed**] QSL via LoTW.

Until 2024

MAYOTTE, FH. Marek, F4VVJ will be active as FH4VVK from **until April 1, 2024**. Operations will be on various HF bands and modes. QSL direct (see QRZ.com) or eQSL.

WALLIS AND FUTUNA ISLANDS, FW. Jean, F4CIX intends to stay on Wallis Island, IOTA OC-054, for another 2 years [**until Sept 2024 - ed**] is QRV as FW/F4CIX. Activity is on 40 to 10M using SSB, FT8, and FT4 mainly between 0630 and 0915z. QSL via LoTW.

Until 2025

LAOS, XW. Mike, XW2DX is QRV from Vientiane and is here for the next 5 years. [**Until August 2025-ed**] Activity is on 20, 15 and 10 meters. QSL via RM0L.

Notes:

1. QSL Direct to home call.
 2. QSL Per operators' instructions.
 3. QSL via bureau
 4. QSL via Log Book of The World (LoTW)
 5. QSL via eQSL
 6. QSL via QRZ.com
 7. QSL via ClubLog
-
-

AMATEUR RADIO LICENSING EXAMS:

TRW Swapmeet at the corner of Aviation Blvd and Marine Avenue in Redondo Beach. 10AM in the Northrop cafeteria. Always the last Saturday of the month – no reservation is required.

(www.W6TRW.com)

ARRL Announces Free Exam Review Website

The ARRL has launched a web site that allows users to take randomly generated practice exams using questions from the actual examination question pool. [ARRL Exam Review for Ham Radio™](http://www.arrl.org/exam-review) is free, and users do *not* need to be ARRL members. The only requirement is that users must first set up a site login (this is a different and separate login from your ARRL website user registration).

Other Free Practice Exam Sites:

<http://aa9pw.com/radio/technician/>

<http://www.eham.net/exams/>

This Practice Exam site Requires Registration

<https://www.qrz.com/hamtest/>

ARRL Officers:**Western Area Director:**

Dick Norton, N6AA

N6AA@arrl.org

LAX Section Officers:

Section Manager: Diana Feinberg, AI6DF

AI6DF@arrl.org or 310-544-2917

Asst. Section Manager: Mark Chung, KK6SMD

mchung@prodigy.net

LAX Section Traffic Mngr: Kate Hutton, K6HTN

For Radiogram formatting instructions go to

www.ARRLAX.org .

Los Angeles Area Council of ARCs

President: Mark Seigel

Mark.Seigel@Gmail.com

RF Safety – Power Density Web site:

http://hintlink.com/power_density.htm

ARRL [RF exposure calculator](http://www.arrl.org/rf-exposure-calculator)

Link: [TRW license test](http://www.trw.com/license-test)

International Space Station (ISS)

Monitor: **145.800** mHz.

PodCast – Amateur Radio News

(The above is a link to an MP3 audio feed)

YouTube: [Call Sign History](http://www.youtube.com/call-sign-history)

On-Line Stores / suppliers:

<http://www.impulseelectronics.com/> PowerPole

<https://elkantennas.com> - LPA VHF/UHF Ant.

<http://hamcity.com> - Local – Conn, cables, ants.

<http://www.aesham.com/> - Ham Radio Outlet

<http://www.dxengineering.com>

<http://www.gigaparts.com/>

<http://www.AllElectronics.com> – Parts

<http://TheWireman.com> – Ant. Coax, UV Dacron

ARRL <http://arrl.org>

CQ Mag [http://store.cq-amateur-](http://store.cq-amateur-radio.com/product-category/books/)

[radio.com/product-category/books/](http://store.cq-amateur-radio.com/product-category/books/)

BGMicro <https://www.bgmicro.com/>

HARC Past & Current Presidents

1973 Doug Erny, AK7E (former W6NPD)

1974 Orson Just, K6JGV, sk

1975, 76 Tom Rothwell, K6ZT, sk

1977 Tom McInnis, WB6ZEB, sk

1978,79 Sam Weise, W6LXR

1980 Bob Poole, AJ6F, sk

1981 Russ Sanford, WA6NQO, sk

1982, 83 Chuck, KN6H

1984 John Bennett, WD6BAI

1985 Scott Fraser, KN6F

1986, 87 Ed, K6GQV

1988 John, WA6LOD

1989, 90 John, KJ6AW

1992 Bruce, WB6ARE

1993 Rick, KD6DYN

1994

1995,6,7,8,9 Brian, AB6UI

2000,1,2 Bruce, W6BLS

2004,5,6 Ed, N6EG

2007 - 2014 Barry, KG6NWJ

2015, 16, 17 – Dale Birmingham, WB6MMQ

2018-19 Mike, N6MDV (Past President)

2020, 21 – Brian, AB6UI (President)

How To: Wires-X can be found at K7REA.com

Southern California Band Plans:

Tasma – 2 Meters

<http://www.tasma.org/TASMA-2m-Band-Plan.pdf>

220SMA Band Plan – 1 ¼ Meters

<http://www.220sma.org/index.htm>

SCRRBA (Southern California Repeater and Remote Base Assoc.) – 440 mHz (70 cm) and up

<http://www.scrba.org/BandPlans/BandPlans.htm>

W1AW Operating Schedule (Edited - Note: Local time stays the same, UTC varies w/DST)

Morning Schedule:

Winter	Summer	Local	Mode	Days
1400 UTC	1300 UTC	(6 AM PDT)	CWs	Wed, Fri
1400 "	1300 UTC	(6 AM PDT)	CWf	Tue, Thu

Afternoon/Evening Schedule:

2100 UTC	2000 UTC	(1 PM PDT)	CWf	Mon, Wed, Fri
2100 "	2000 "	"	CWs	Tue, Thu
2200 "	2100 "	(2 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM
2300 "	2200 "	(3 PM PDT)	DIGITAL	Daily, Digital Bulletin
0000 "	2300 "	(4 PM PDT)	CWs	Mon, Wed, Fri
0000 "	2300 "	"	CWf	Tue, Thu
0100 "	0000 "	(5 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM
0200 "	0100 "	(6 PM PDT)	DIGITAL	Daily, Digital Bulletin
0245 "	0145 "	(6:45 PM PDT)	VOICE	Daily, Voice Bulletin
0300 "	0200 "	(7 PM PDT)	CWf	Mon, Wed, Fri
0300 "	0200 "	"	CWs	Tue, Thu
0400 "	0300 "	(8 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM



Frequencies (MHz)

CW:	1.8025	3.5815	7.0475	14.0475	18.0975	21.0675	28.0675	50.350	147.555
DIGITAL:	-	3.5975	7.095	14.095	18.1025	21.095	28.095	50.350	147.555
VOICE:	1.855	3.990	7.290	14.290	18.160	21.390	28.590	50.350	147.555

Notes:

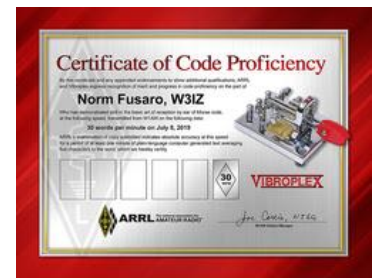
CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 & 15 WPM
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 & 10 WPM
 CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.
 DIGITAL = BAUDOT (45.45 baud) BPSK31 and MFSK16 in a revolving Schedule.
 Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and alternate speeds.

W1AW Qualifying Runs: [for more info: www.arrl.org/qualifying-run-schedule]

Starting 2020. W1AW will transmit Qualifying Runs up to 16 times per month.
 Time is PST: [10 – 35 wpm – **Bold 35, 40 – 10 wpm**] – on CW Frequencies listed above.

Month	6 AM	1 PM	4 PM	7 PM	6 AM	1 PM	4 PM	7 PM	6 AM	1 PM	4 PM	7 PM	6 AM
Feb.	2/15		2/16	2/13		2/17		2/21		2/23	2/24		
Mar.		3/8	3/7	3/9	3/10	3/13		3/14			3/15		3/16
Mar.	3/16		3/20	3/22	3/21		3/27		3/30	3/28			2/29



West Coast Qualifying Runs:

Wed. Feb 22 @ 7 PM HST (0500 UTC on Feb. 23) on 7047.5 & 14047.5 kHz by KH6TU - Speeds 10 to 40 WPM
 Sat. Mar 25 @ 2 PM PDT (2100 UTC) on 3581.5, 7047.5, 18097.5, & 21067.5 kHz by K6KPH - Speeds 10 – 35 WPM

Earn your Code Proficiency certificate by legibly coping at least 1 minute of text by hand and mailing the sheet to: W1AW Qualifying Runs, 225 Main St., Newington, CT 06111. Include \$10 (check or money order) if this is a submission for your initial Code Proficiency certificate; \$7.50 if you are applying for an endorsement (available for speeds up to 40 wpm). Your test will be checked against the actual transmissions to determine if you have qualified.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here, also. The audio (real-time) runs concurrently with W1AW's regular transmission schedule.

K1USN Radio Club Announces Weekly Slow-Speed CW Contest

The K1USN Radio Club in Massachusetts is launching a new weekly, hour-long, slow-speed contest, the [K1USN SST](#). **Fridays 1:00-2:00 pm PDT** (2000z -2100z) and **Sundays, 5 to 6 PM PST** (Monday 0000-0100 UTC) Suggested frequencies: 3.532 - 3.539; 7.032 - 7.039 MHz, & 14.032 - 14.039 MHz. Exchange name & s/p/c. Read [more](#).

The Straight Key Century Club (SKCC): http://www.skccgroup.com/member_services/beginners_corner/

SKCC Beginner's Corner - Monthly Straight Key Night (SKN) is on the 1st of each month. It is not a contest. No logs are submitted. The Elmer frequency is **7114 KHz**. It's a safe haven for CW newcomers. Elmers are encouraged to monitor the frequency and work the CW beginners, some of whom may have had a license for many years.

July 1, 2021 – June 30, 2022 CLUB OFFICERS**Elected Officers:**

PRESIDENT:	Brian, AB6UI	AB6UI at AOL.com
VICE PRESIDENT:	Howard, KE6MAK	Karse1 at DSLextreme.com
SECRETARY:	Dale, WB6MMQ	WB6MMQ at ARRL.net
TREASURER:	Paul, KK6TAC	PAGeisel at Verizon.net
STATION MANAGER:	Michael, N6MHD	N6MHD at ARRL.net
Available PAST PRES.:	Dale, WB6MMQ	WB6MMQ at ARRL.net

Committees:

NEWSLETTER EDITOR:	Dale, WB6MMQ	WB6MMQ at ARRL.net
QUARTERMASTER:	Michael, N6MHD	N6MHD at ARRL.net
WEB MASTER:	Richard, KM6FP	RunFarr at Gmail.com
YAHOO GROUPS:	Richard, KM6FP	RunFarr at Gmail.com (http://groups.yahoo.com/w6ha)
MEMBERSHIP:	Dale, WB6MMQ	WB6MMQ at ARRL.net
SCRRBA REP:	Ray, WA6NVL	WA6NVL at ARRL.net
MEETING HOST:	Dale, WB6MMQ	WB6MMQ at ARRL.net
CLASS Coordinator:		
FIELD DAY Coordintrs :	Brian, Dale, Howard	See above
NET COORDINATOR:	Howard, KE6MAK	Karse1 at DSLextreme.com
RACE COORDINATOR:	Dale, WB6MMQ	WB6MMQ at ARRL.net
ANT. TRAILER Coor:	Brian, AB6UI	AB6UI at AOL.com
RAYTHEON Coor:	Ken, KI6YDN	KSIMP1022 at AOL.com

CLUB REPEATER: **W6HA** 445.620 MHz (-) PL 127.3 Hz Location: Bldg. R1 roof
Packet (node :hughes) 145.61s W6HA; **Wires-X** Room: 40909; Node: 30909

HARC Repeater Nets: Wednesdays, 7:30 PM (0330 UTC Thursdays)
 Thursdays, 12:05PM (2005 UTC) RTN ECT – All are welcome

South Bay ARC Net: Thursdays at 7:30 PM on W6SBA/R, 224.38, PL 192.8

LAFF CERT Net: 1st Tuesday of the month, 7:00 PM PT

HAC NET: Hughes ARC - 14.233 mHz +/- QRM – Inactive (Calling Freq for Slow Scan TV)

Club Shack: The club shack is in E1, Lobby D. There is a Kenwood TS-520 HF radio connected to a 40 –10 meter end-fed dipole. This station is open to all club members. (I would be happy to give a tour of the HF station in "Lobby D" to club members. Michael, N6MHD) **After covid-19 restriction – now – Mask Required!**

Club Newsletter: If you have items that would be of interest to the club, any comments, letters, or items for sale or trade, send an email it to Dale, WB6MMQ DGBirmingham (at) Gmail (dot) com. If anyone needs a club application, please contact Membership Chair: Dale, WB6MMQ and one will be sent to you.

Club Roster: Hardcopy available at meetings or contact the club membership chairman Dale, WB6MMQ

Web Site: www.W6HA.org ;.net and .com will also get you there.

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