



The Transponder



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

December 16, 2022 Repeater 445.620 – PL 127.3 Website: W6HA.org Vol. XLIX, No. 12

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

Meeting Notice: Where: El Segundo Library, FoTL Conference Room
Location: 111 Mariposa St., El Segundo, CA 90245

Date: **Tuesday, December 20, 2022**
Time: Pre-Meeting: 11:45 Gather, Exchange Greetings [Setup 11:30]
Meeting Call to Order: 12:00 to 1:00 PM

Featured Presentation: **Holiday Meeting: Door Prize**
Debrief of:

ARRL 10 Meter DX Contest (T)

By WB6MMQ, Dale, et al (three others entered the T)

[A Hams Christmas \(click\)](#)

Up Coming Events:

2023 – Hughes ARC’s 50th Anniversary Year as a Radio Club

Sat. Jan. 28, 2023 – Sean O’Brien 50/50 –Race Support – Malibu Creek Campgnd (Race Start - 6 am)

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Lunch: El Polo Chicken - Hosted by the Club !!! Happy Holidays !!!

~~—Pizza: 1 Large Veggie; 1 Lrg Pepperoni; 1 Lrg Special; 1 Lrg Sausage, (\$3.75/slice)~~

~~**Prices:** 2 slices of Pizza w/salad, \$8.50; 1 slice of pizza w/salad \$5.50; Salad only \$4.50~~

~~**Sodas:** Coke, Coke Zero & Ginger Ale (\$1.00) – Water (50 cents) Next Month~~

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 a busy year for the Hughes ARC. Now with many of the Covid restrictions we are back to having regular monthly meetings at the El Segundo library. We were able to get back to Wilderness Park for ARRL Field Day and even talked to an astronaut aboard the ISS. We set up a station at Point Vincente Light House for ILLW and several members of the club helped run the 75th anniversary of the HK1-Flying Boat Special event station for an entire week. We continue to support the MB 10K and Ultra Running events! Also we have had a booth at the TRW swap for the last several months.

On the business side of things, we were able to completely finalize all the requirements to become a 501(c) 3 non-profit with both the federal and state government.

So, what plans do we have for 2023? The main reason we went to all the trouble of becoming a 501(c)3 non-profit was to enable the club to get back to where we were before we were evicted by Raytheon from the "T" lot (where we stored our tower trailer and had a Conex box to store our field day equipment antennas, coax etc.). Starting in 2023 we will work with local cities and business in the South Bay to find a permanent home!

The tower trailer is in desperate need of repair. The temporarily storage at the AES plant in Redondo Beach is very near the ocean and the salt air is causing serious rust. The board has discussed getting the trailer refurbished but it will cost money. I encourage everyone to pay your membership dues. And in order to fund special projects like the tower trailer repair please consider signing up for Amazon smile (and use amazon smile when you check out). Also sign up for Ralphs Rewards with the Hughes ARC as your non-profit! This will let us keep the dues at their current low level while continuing to properly maintain the club equipment.

We are already planning a Winter "Field Day". Where we will set up in the Raytheon employees park just for fun. All in all, 2023 is already shaping up to be an exciting year and I can't wait to see you all on the air!

73 DE AB6UI, Brian

Contests/Special Events: Dec/Jan December

Several domestic and Foreign Groups are sponsoring [Santa Claus On-The-Air](#) events. See article below.

January/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](#)

Licenses Expired or Expiring Soon

Steve, KK6AGG – 10/19/22

Barry, KG6NWJ – 1/15/23

ARRL 10 Meter DX Contest - Results

Well there is NO doubt about it – the Sunspots are back and DX on 10-M is too!!!

Four (4) members of the club turned in logs: N6IET, Rick; N6JZT, Hal; NT6E (former K6LDQ), Jon; and yours truly WB6MMQ, me. So, that is awesome, because we made the minimum (3) number of entries to qualify for the '[Gavel Competition](#),' as well! There are three competition levels for the Gavel Competition, so with a few more entries a small club like ours with many Tech members, w/privileges on 10-M, we could be competitive. The 'small club class' is limited to only about eleven or twelve entries in a 35 mile radius.

I did not get on the air on Friday evening or Saturday, as we had some guests at the house and there were holiday tasks to complete. So, Sunday morning I got up a little early, got some coffee and toast and turned on the radio to see if there was any 'Gray-line' action, NOT expecting much – WRONG! THE BAND WAS OPEN! Hours later, 2 PM, I was still in my bathrobe, the toast was eaten, but the coffee only half gone. I got a bit of lunch and after that, I was On-The-Air till 4 PM when the T ended.

Total score: 5740: 70 phone QSOs, 14 countries, including several firsts for me, such as, China (sounded like an American next door), S. Korea, Bonaire, Chile and Columbia and also, Japan, Australia, Indonesia was in strong but no contact, Argentina, Brazil, and 24 US states (mostly east of Mississippi, but did get Nd, Ne), 2 Canadian provinces, 1 Mexican state. So my multiplier is 41 (each US state, Canadian province, Mexican state and DX country is a multiplier).

I could have gotten more QSOs, but I was having too much fun with "Search and Pounce". I kept saying, to myself, when I run out of Search and Pounce contacts, I'll "Run", but the band kept changing so that when I went back to the top to scan back down, there was a whole new set of stations, from another part of the world.

What was my equipment? The antenna is a repurposed Alumnum Flag Pole that had once supported a flag off the front porch, in days gone by. It was mounted on top of the house. Last year I tried a vertical dipole, so I had raised the base so the radials could hang almost straight down. That raises the feed-point impedance to 75 ohms, for a 1.5:1 SWR, right at the antenna, so it would look a little better at the radio due to coax losses. So the protection circuits in the radio, would not be reducing power, but there is some power and signal loss in the coax.

So this year the only change was to pull the radials out so they were more horizontal, but about 30 degrees below horizontal, which reduces the feed-point impedance to 50 ohms or very near a 1.0:1 SWR. At least, that's what it looked like on the Bird wattmeter. The radio, was a Kenwood TS-480, which is capable of 200 watts. There does not seem to be any scoring advantage to staying at or below 100 watts, so I ran full tilt. However, my results will be listed with the big boys who may

have been running a full gallon and perhaps a 10 dB beam at 55 feet. I broke through most small pileups on the 3rd of 4th call, but most the time, it was one call.

So, all you Techs, get on ebay, find a nice little 10 meter rig for \$100 bucks or so, and get On-The-Air on 10 meter. The fun is just starting for this Solar Cycle. So let's get that Gavel for our Club.

73 de WB6MMQ, Dale

From Rick, N6IET

I just submitted my Cabrillo log file for the ARRL 10-meter Contest with Hughes ARC as my club. I made 44 CW contacts in 20 states, provinces, etc., for a total raw score of 3520 points. I only operated on Sunday for a total of about 80 minutes.

I used my balcony horizontal, extended Hustler mobile antenna with a 15m resonator attached to it with shortened stinger that had two SWR dips, one of which landed at 28.1 MHz with an SWR of 1.1. It worked great! Only a small handful of stations I called (using S & P) could not hear me.

My furthest contacts included much of the East Coast, Brazil, Hawaii and Alaska.

This is the second time I've ever worked 10-meter CW, the first time being the California QSP Party last October 2, during which I made 53 (of 497) CW contacts on 10 meters using that same antenna.

Rick N6IET

[Free Amateur Extra Classes: On-Line](#)

(Submitted by, Jerry Cooper, K6JRY)

A free, weekly, live, Amateur Radio Extra Class Licensing course on Zoom will begin on Thursday, January 12, 2023, and will run through Thursday, March 23. There will be 11 sessions. The three-hour sessions will start at 6:30 PM Eastern Time (3:30 PM PT). Sessions will be recorded. Those attending should hold (or be studying for) the General Class Amateur Radio License. These are the classes that we have been holding for years spon-

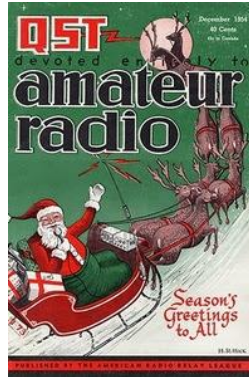
sored by the National Electronics Museum. Please publicize this with anyone that you think would be interested. Those wishing to sign up should email roland.anders@comcast.net.

Thanks, 73, Rol Anders, K3RA

ARRL Letter - Excerpts of Possible Interest **Santa is On the Air Via Ham Radio**

As Christmas approaches, many amateur radio clubs carry out an annual tradition of helping kids talk directly to Santa Claus while he is still at the North Pole before his big ride.

On Saturday, December 10, 2022, the Wallingford Amateur Radio Group in Connecticut will connect kids to Santa and Mrs. Claus via amateur radio during their [Calling Santa](#) event. The group organizes the event in cooperation with the Wallingford Health Department, Youth & Social Services, and support from an Amateur Radio Digital Communications (ARDC) grant to the [Meriden Amateur Radio Club](#) (MARC).



MARC President Dr. Ed Snyder, W1YSM, said this will be the third year for Calling Santa. "The location is ideal for this event," said Dr. Snyder. "Our communications van will be there, and the kids go inside and talk to Santa and Mrs. Claus on a real amateur radio. There will also be a fire truck, coloring books, crayons, and allergy-safe snacks." Each child will receive a full-color certificate signed by the Clauses.

Already in operation for the 16th consecutive year, The 3916 Nets are hosting the [Santa Net](#) on 3.916 MHz. Kids can talk to Santa Claus nightly via amateur radio at 7:00 PM CST now through Christmas Eve, December 24, 2022. The shortwave net welcomes radio amateurs to help their children and grandchildren get on the air to talk to Santa (third-party rules and regulations apply).

The [Big Bend Amateur Radio Club](#), covering the Big Bend area of west Texas and based in Alpine, will have their 15th annual Santa Net ready to go on December 14, 2022. Local 2-meter repeaters are used to make the connection to Santa. The club highlights that "Santa Net introduces kids to ham radio." The event is promoted through the local

elementary school and its teachers. Participants get a candy cane and a card commemorating the radio contact with Santa.

The ARRL Special Event Stations database is updated regularly and includes other Christmas and holiday-themed on-the-air events. You can search the database at www.arrl.org/special-event-stations, and use keyword searches such as "Christmas" or "holiday." Fill out the Special Events application form at www.arrl.org/special-events-application to add your event.

A Christmas Message to the World

On Christmas Eve morning, December 24, 2022, the [Alexander Grimeton Friendship Association](#), in southern Sweden will be on the air sending out a special [Christmas message](#) to the world.

The event will begin at 08:30 CET (07:30 UTC) with the startup and tuning of the Alexanderson alternator transmitter through Grimeton Radio Station, call sign SAQ. The transmission will begin at 09:00 CET (08:00 UTC) with the 98-year-old 200 kW Alexanderson alternator on 17.2 kHz CW.

Grimeton Radio Station, SK6SAQ, will be QRV (ready) on the following frequencies:

3.535 MHz CW

7.035 MHz CW

14.035 MHz CW

3.755 MHz SSB

7.140 MHz SSB

QSL reports can be sent to SK6SAQ via email at info@alexander.n.se.

The event will also be live streamed on the Alexander SAQ Grimeton Friendship Association [YouTube Channel](#).



The Alexanderson alternator transmitter is the only remaining example of early pre-electronic radio transmitter technology. The station, built in 1922 - 1924, has been preserved as a historical site. From the 1920s through the 1940s, it was used to transmit telegram traffic by Morse code to North America and throughout the world during World War II.

More information about the December 24 Christmas Eve event and the transmitter can be found at the [Grimeton Radio Station](#) website.

New General Question Pool Released for Ham Radio Licensing Effective July 1, '23

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 level of difficulty of questions is more balanced, and the techniques and practices addressed have been updated.

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," said ARRL VEC Manager Maria Somma, AB1FM, who is a member of the NCVEC Question Pool Committee. "New test designs will be available to [ARRL Volunteer Examiners](#) on that date. 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 preparing for their exams using the 9th edition of [The General Class License Manual](#), and/or the 6th edition of [ARRL's General Q & A](#) are encouraged to test by, or before, June 30, 2023. New editions of ARRL licensing publications will be available in May, for exams taken on, or after, July 1, 2023.

Reaching Youth Through Amateur Radio in the Classroom

ARRL Education and Learning Manager Steve Goodgame, K5ATA, attended the Georgia Educational Technology Conference, held November 2 - 4, 2022. The conference was the first part in a series of planned ARRL exhibits to meet with teachers and promote amateur radio in the classroom.

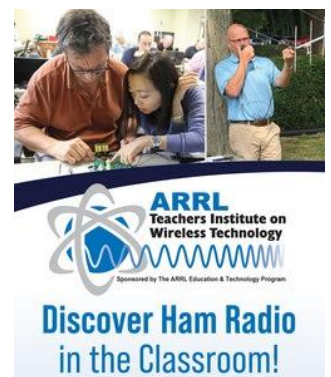
Assisted by ARRL Teachers Institute Instructor Wayne Greene, KB4DSF, along with volunteers Cyndi Goodgame, K5CYN, and Betsey Greene, they spoke to hundreds of teachers, school administrators, and technology directors about the [ARRL Teachers Institute on Wireless Technology](#).

ARRL's participation at this conference, as well as future events, is meant to inform and network with educators looking to incorporate amateur radio into their curriculum.



"The level of interest among teachers was incredible!" said Goodgame. "Our booth enjoyed heavy traffic for the duration of the conference, much of the time with all four of us engaged in discussions with multiple people simultaneously. Except for a couple of teachers we met who were already hams, few teachers had heard of amateur radio before this conference. These teachers were absolutely amazed at the possibilities that exist when including amateur radio and related educational experiences in their schools."

"Teachers were especially excited at the connections between amateur radio and space. We shared information about the ARISS program -- [Amateur Radio on the International Space Station](#) -- as well as communicating via amateur satellites. Enough teachers



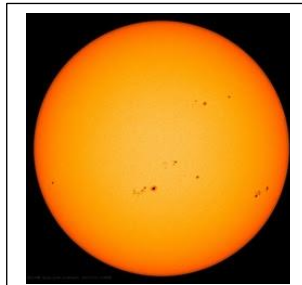
were interested in learning more about the relationship between amateur radio and satellites communications that we put together an impromptu live demonstration using two handhelds and an Arrow antenna we had for display in the booth. We gathered a crowd of teachers, along with a few students who were presenting their Student Showcase projects and headed outside. We enjoyed a good satellite pass and made contacts through AO-27. One of the students even got on the air!"

"Overall, it was a great conference and a great opportunity for ARRL to network with educators and work with them to help get more youth [engaged in amateur radio](#)."

The K7RA Solar Update

Tad Cook, K7RA, of Seattle, Washington, reports for this week's ARRL Propagation Bulletin, ARLP050:

Heightened sunspot activity over the past week no doubt produced the great conditions during last week-end's ARRL 10-Meter Contest.



Caption Solar disk image taken December 15, 2022, courtesy of NASA SDO/HMI.

Compared to the previous 7 days, average daily sunspot numbers jumped from 85 to 136.9, while solar flux averages increased from 137.5 to 150.

Geomagnetic indicators were lower, with planetary A index decreasing from 14.4 to 7.7, and middle latitude A index decreasing from 9.1 to 6.

Higher sunspot numbers and lower geomagnetic indicators are an ideal combination for favorable HF propagation.

New sunspots appeared every day except Dec. 12, with one new sunspot on Dec. 8, another on Dec. 9, three more on Dec. 10, another on Dec. 13, and one more on Dec. 14.

The latest prediction from the United States Air Force (USAF) via National Oceanic and Atmospheric Administration (NOAA) shows solar flux at 164, 160, 158, and 156 on December 15 - 18; 154 on December 19 - 20; 150 and 125 on December 21 - 22; 120 on December 23 - 28; 125, 130, and 135 on December 29 - 31; 145 on January 1 - 8; 140, 130, 125, and 120 on January 9 - 12, and 115 on January 13 - 18.

Predicted planetary A index is 5 on December 15 - 17; 8 on December 18 - 20; 12, 20, 15, and 12 on December 21 - 22; 20 on December 25 - 28; 12, 10, 12, 8, 5, and 18 on December 29 through January 3; 10 on January 4 - 5; 8 on January 6; 5 on January 7 - 14, and 10 on January 15 - 16.

In Friday's bulletin we will have reports from the 10-meter contest and some 6-meter observations.

Sunspot numbers for December 8 through 14, 2022, were 115, 116, 111, 141, 142, 159, and 174, with a mean of 136.9. The 10.7-centimeter flux was 143, 149.1, 141.7, 147.7, 150.8, 153, and 164.7, with a mean of 150. Estimated planetary A indices were 11, 11, 8, 10, 6, 4, and 4, with a mean of 7.7. Middle latitude A index was 9, 9, 6, 7, 5, 3, and 3, with a mean of 6.

Send your tips, questions, or comments to k7ra@arrl.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)

Dec. 15 - 16 -- Walk for the Bacon QRP T. (CW)
 Dec. 16 -- AGB-Party T. (CW, phone, digital)
 Dec. 16 -- Russian 160-Meter T. (CW, phone)
 Dec. 17 -- Feld Hell Sprint (digital)
 Dec. 17 -- OK DX RTTY T. (digital)
 Dec. 17 -- RAC Winter T. (CW, phone)
 Dec. 17 - 18 -- Croatian CW T. (CW)
 Dec. 17-18 - Stew Perry Topband Challenge (CW)
 Dec. 18 -- ARRL Rookie Roundup (CW)
 Dec. 18 - 19 -- Run for the Bacon QRP T. (CW)
 Dec. 21 -- NAQCC CW Sprint (CW)
 Dec. 21 -- VHF-UHF FT8 Activity T. (digital)
 See the [ARRL Contest 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.

January 20 - 21 | [Southwest Florida Regional Hamfest](#), hosting the ARRL Southern Florida Section Convention, Fort Myers, Florida

January 28 | [Winterfest](#), hosting the ARRL Midwest Division Convention, Collinsville, Illinois

February 10 - 12 | [Orlando HamCation](#), hosting the ARRL Southeastern Division Convention, Orlando, Florida

March 3 - 4 | [BirmingHamfest](#), hosting the ARRL Alabama Section Convention, Trussville, Alabama

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.arrl.org/hamfests and includes these upcoming events:

In Brief...

Dayton Hamvention® has announced that the Ramada Inn in Xenia, Ohio, is closing. The Dayton Daily News is reporting that the city of Xenia will take full possession of the Ramada Inn on November 1, 2022. The land will be incorporated into the Xenia Towne Square revitalization project. Hamvention, the largest annual ham radio convention in the US, will be held **May 19 - 21, 2023**, at the Greene County Fairgrounds and Expo Center in Xenia. A list of other accommodations can be found on the Hamvention website at <https://hamvention.org/travel-parking/accommodation/>.

Announcements

- The [EZNEC](#) antenna-modelling software by Roy Lewallen W7EL, is now a free download.
- [4A90FMRE](#) is on the air to mark the 90th anniversary of the Federacion Mexicana de Radio Experimentadores. Operation is taking place from all 31 Mexican states plus Mexico City.
- **Special Event:** The London BBC Radio Group has been granted a year-long special event call sign, GB100BBC, to commemorate the centenary of the BBC in 2022. Operations will be carried out by individual members or groups from home stations or BBC premises.
- **[DX Engineering](#) has announced that it has added Penta Laboratories RF vacuum tubes to its product line.** "In the ham radio community, special RF power vacuum tubes are essential replacements for current model amplifiers. They are also used to revive legacy amplifiers, and some technically savvy operators build vintage-style homebrew equipment and other devices using vacuum tubes," included the DX Engineering announcement. [Penta Laboratories](#) describes that it "was founded in 1951, and quickly achieved industry-wide recognition for the development of the beam-power Pentode vacuum tube."

Dear HUGHES AMATEUR RADIO CLUB (UE312),

The Kroger (Ralphs) Co. Family of Stores is committed to bringing hope and help to the local neighborhoods we call home. Our stores are on a mission to be not just part of, but to help create a stronger community. We recognize that every community has unique causes that need support.

Thank you for being such an important organization in our community.

<u>Time Period</u>	<u>House Holds</u>	<u>Amount</u>
9/1/22 to 11/30/22	3	\$31.38

<u>Lunch Kitty Financials:</u>		<u>Sept, 2022</u>	
Attendance: ? (in Room-11) - Zoom-9:			
		Lunch Kitty, Starting Balance:	\$214.75
<u>Expenses:</u>	Pizza (3) - Salad =	\$50.00	
	Soda: 10 @ 0.43 =	\$4.25	
	Water: 1 @ 0.25 =	\$0.25	
		Food Total:	\$54.50 \$160.25
<u>Income:</u>	Lunch: =	\$85.00	\$245.25
Room Rent - To General Fund:		\$0.00	\$245.25
		Starting Kitty for Oct. 20, 2022 Mtg.	\$245.25

<u>Lunch Kitty Financials:</u>		<u>October, 2022</u>	
Attendance: ? (in Room) - Zoom: ?			
		Lunch Kitty, Starting Balance:	\$245.25
<u>Expenses:</u>	Pizza (3) - Salad =	\$90.00	
	Soda: 13 @ 0.44 =	\$5.75	
	Water: 0 @ 0.25 =	\$0.00	
		Food Total:	\$95.75 \$149.50
<u>Income:</u>	Lunch: =	\$112.00	\$261.50
Room Rent - To General Fund:		\$0.00	\$261.50
		Starting Kitty for Nov. 20, 2022 Mtg.	\$261.50

<u>Lunch Kitty Financials:</u>		<u>November 2022</u>	
Attendance: ? (in Room) - Zoom:			
		Lunch Kitty, Starting Balance:	\$261.50
<u>Expenses:</u>	Pizza (3) - Salad - Dlvry =	\$95.00	
	Soda: 11 @ 0.43 =	\$4.75	
	Water: 2 @ 0.25 =	\$0.50	
		Food Total:	\$100.25 \$161.25
<u>Income:</u>	Lunch: =	\$119.00	\$280.25
Room Rent - To General Fund:		\$0.00	\$280.25
		Starting Kitty for Dec. 20, 2022 Mtg.	\$280.25
November	Gain / Loss:	\$18.75	

Select DX News (QRV = Ready! or Are you Ready?)**ARLD050 DX news** [Note: 'T' = contest]

This week's bulletin was made possible with information provided by G7WKX, The Daily DX, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

FINLAND, OH. The Market Reef DX Association station, OH9A operates with the call sign OH1XMAS **until December 26** on all bands and modes. QSL via Club Log OQRS or direct.

ANTARCTICA, VP8. Seba, SQ1SGB will be operating as VP8/SQ1SGB/p during his spare time, **until Feb. 1, 2023**. He is QRV on 40 & 20M using SSB & FT8. QSL via EB7DX.

ENGLAND, G. The RSGB holds their Transatlantic **Centenary Tests throughout December**, commemorating the tests towards the first transatlantic contact on HF. Look for special call signs G5WS, G5AT, G6XX, G6ZZ, G3DR, and GM3DR. Additional calls may also be used from other parts of the country: GM5WS (Scotland), GW5WS (Wales), GU5WS (Guernsey), GD5WS (Isle of Man), GJ5WS (Jersey) and GI5WS (Northern Ireland). QSL via M0OXO. Logs will be uploaded to LoTW and Club Log.

ROTUMA, 3D2. Antoine, 3D2AG/p has been using CW on 17M around **2240z**, and on 15M after **2300z**. [Listed Dec. 2022 – ed] QSL via 3D2AG.

NIGER, 5U. Giorgio, IU5HWS is QRV as 5UA99WS **until Dec. 20**. Activity has been mostly on 15M on SSB. QSL direct to EA5GL.

LAOS, XW. Vincent, XW4KV plans to activate 12 locator grids via QO-100, until December 23. HF operation is expected as well **from Dec. 13 to 18**. QSL via F4BVK (d/B), OQRS or LoTW.

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.

SENEGAL, 6W. Earl, WA3DX will be QRV as 6W1/WA3DX from Dakar and Mbao, and as 6W6/WA3DX from Kaolack and Marloj, from **Dec. 22 to Jan. 20, 2023**. Activity will be holiday style on 40 to 10M using FT8 & SSB. QSL #1

MALDIVES, 8Q. Elena, 8Q7CA is QRV from Nalaguraidhoo Island, IOTA AS-013, **until Dec. 22**. Activity is on 80 to 10M using CW, SSB, & FT8. QSL via RC5A.

KUWAIT, 9K. Members of the Kuwait Amateur Radio Society and fellow Gulf state Qatari Amateur Radio operators are QRV with special call 9K9QATAR **until December 20** during the Qatari National Day celebrations. QSL via EC6DX.

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

BALEARIC ISLANDS, EA6. Simon, G7WKX will be QRV as EA6/G7WKX **from December 20 to January 2, 2023**. Activity will be on the HF bands at as many POTA sites as possible QSL #1

THE GAMBIA, C5. Andre, ON7YK is QRV as C5YK during his spare time **until Feb. 24, 2023**, mostly on 10 and 12M, and also on 20, 17 and 15M using CW & digital modes. QSL direct via ON7YK or LoTW.

KYRGYZSTAN, EX. Bob, DU7ET is QRV as EX0ET from Bishkek Holiday style, during his daylight hours on 30 to 10M using CW. QSL #1

SAUDI ARABIA, HZ. Ahmed Hashash Al-Talib, HZ1CY is QRV as HZ1YOTA during Dec. while taking part in the annual Youth On The Air activities. QSL via HZ1SAR.

MINAMI TORISHIMA, JD1. Take, JG8NQJ/JD1 is QRV using FT8 on 160M from 1000 to 1100z, then 17M using CW, from 0900z to 15M using CW. [Listed Dec. '23 – ed] QSL via JA8CJY.

ARUBA, P4. Heli, DD0VR and Bigi, DE3BWR are QRV as P4/DD0VR **until Dec. 23**. Activity is on the HF bands using CW and SSB with QRP power. QSL via DD0VR.

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

BRITISH VIRGIN ISLANDS, VP2V. Ron, VP2VAO has been QRV on 40M using SSB between 0315 & 0415z. [Listed 12/'22 – ed] QSL #1

ANTARCTICA. Seba, SQ1SGB is QRV as VP8/SQ1SGB/p from Halley VI base until Feb. 1, 2023. Activity is holiday style on 40 & 20M using SSB and FT8, respectively. QSL via EB7DX.

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

BURKINA FASO, XT. Harald, DF2WO is QRV as XT2AW from Ouagadougou until Dec.18. Activity is on the HF bands and on Satellite QO-100. QSL via M0OXO.

LAOS, XW. Vincent, XW4KV is QRV until Dec. 23. He plans to activate 12 locator grids via Satellite QO-100. He has also been active on 15M using SSB, & FT8 in DXpedition mode, around 0800z & 1030z, respectively. QSL via F4BVK.

WEST MALAYSIA, 9M2. Special event station 9M100SK is QRV **until December 31** in celebration of the 100th anniversary of Kedah Scouts. Activity is on 80 to 10 meters using SSB, CW, and various digital modes. QSL direct to 9W2TXL.

BRAZIL, PY. Special event station PV22CUP will be QRV from **Nov. 19 to Dec. 18** during the 22nd FIFA World Championship being held in Qatar. QSL via LoTW.

BRUNEI DARUSSALAM, V8. Didier, F5NPV is now QRV as V85NPV from the capital city Bandar Seri Begawan and here for a few years. [**listed in Nov. 2022 – ed**] QSL via LoTW.

GUINEA BISSAU, J5. Carlos, CT2GQA is QRV as J5JUA and is active **until Dec 31, 2022**. Activity is mostly using FT8, and as a mobile station. He may also use J5GQA. QSL #1

CUBA, CO. Lefty, CO2QU will be active **until December 31** on 30 meters (FT8/FT4) and 6 meters (FT8). QSL via CO2QU direct or LoTW.

BELGIUM, ON. Members of the RC Belge de l'Est are QRV with **Special Event Station** call sign OR100RCBE **during all of 2022** to celebrate the club's founding in 1922. QSL via ON4GDV.

GUINEA, 3X. Jean-Philippe, F1TMY, expects to be QRV as 3X2021 from Conakry **until end of 2022**. He plans to be active on 160 to 6M, and Satellite QO-100. He also plans side trips to the Los Islands, IOTA AF-051. QSL via Club Log.

COSTA RICA, TI. Special event station TI1GOAL is QRV **until December 2022** to draw attention to the Costa Rican football team participating in the FIFA World Championship. Activity is on the HF bands using SSB & FT8. QSL direct.

MEXICO, XE. Zalo, XE3N is QRV as 6F6F **during 2022** celebrating 120th annvsry of Playa del Carmen City, Quintana Roo. QSL via EA5GL.

SWEDEN, SM. Members of the Skoevde ARC are QRV with special call SK50EI **during 2022** to celebrate the club's 50th anniversary. QSL #3.

SWITZERLAND, HB. Members of USKA Schaffhausen are QRV with Special Event Station HB50SH **during 2022** to celebrate the club's 50th anniversary. QSL via LoTW.

TURKEY, TA. Members of the Turkish Amateur Radio Association are QRV with special call sign TC60TRAC **during all of 2022** to celebrate the club's 60th anniversary. QSL via the bureau.

NORWAY, LA. Special Event Station LA100B is QRV **during 2022** to celebrate NRRL's Bergensgruppen 100th anniversary. QSL via LoTW only.

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.

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:

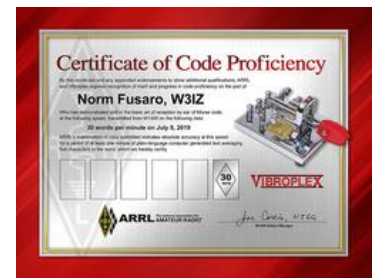
CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 & 15 WPM
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 & 10 WPM
 CWb = Morse Code Bulletins = 18 WPM

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
Dec.	12/15	12/19		12/16	12/20			12/21			12/27	12/26	12/28
Jan.			1/3	1/5	1/6	1/10	1/11		1/12				1/13
Jan.	1/17		1/19	1/18		1/20		1/23	1/24	1/26	1/27		



West Coast Qualifying Runs:

Sat. Dec 17 @ 2 PM PST (2200 UTC) on 3581.5, 7047.5, 14047.5, 18097.5 & 21067.5 kHz by K6KPH 10 – 40 wpm
 Wed. Jan 25 @9 PM PST (0500 UTC on Jan. 26) on 3590 & 7047.5 kHz by K9JM sending speeds 40 to 10 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

LAFD 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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