



# The Transponder



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

January 13, 2023

Repeater: 445.620 – PL 127.3

Website: W6HA.org

Vol. L, No. 1

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

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

Date: Tuesday, January 17, 2023  
Time: Pre-Meeting: 11:45 Gather, Exchange Greetings [Setup 11:30]  
Meeting Call to Order: 12:00 to 1:00 PM

**Featured Presentation:**

**Radio Sonde** Wiki Pedia: [https://en.wikipedia.org/wiki/Radiosonde#cite\\_note-21](https://en.wikipedia.org/wiki/Radiosonde#cite_note-21)  
By **Brian, AB6UI**

**Up Coming Events:**

- 2023 – Hughes ARC’s 50<sup>th</sup> Anniversary Year as a Radio Club
- Sat. Jan. 21, 2023 – ARRL North American QSO party – Tower at RTX – Tentative?
- Sat. Jan. 28, 2023 – Sean O’Brien 100/50 –Race Support – Malibu Creek Campgnd (Race Start - 5 am)

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**Lunch:**

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) – 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) -1<sup>st</sup> Thursday Formal – others Round Table

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

## Club News:

### Ultimate Race Support, Saturday, January 28

The Sean O'Brien 100/50 will be run out of Malibu Creek Campground on the last Saturday of January, the 28<sup>th</sup>. It will be two races on the same course, a 50 mile and a 100 km (60 mile) trail run. Aid stations are as much as 10 miles apart, so tracking and communicating runner Location, Health and Welfare is our main purpose.

The 100k starts at 5 AM and the slowest runners finish about 9:30 PM. Those hours sound long, but the duty at many aid stations is much shorter. It is an out and back race, so the aid station at the turn-around (mile 25) comes up about 8:00 AM and is finished about 1 PM. The latest AM setup is near the finish with setup at 10 AM and shutdown about 6 PM. So, let me know your availability and I may be able to match you to an aid station.

Equipment: We setup the club's portable repeater on 2 meters, so an HT will work in many locations. A full length or external antenna such as a mag-mount is often useful.

Some of the regulars have already committed, but there is always room for one more. Two operators at each aid station are desired just for mutual support and equipment backup. A second radio with fresh batteries is always a good thing. So, if interested, I can place you with an experienced operator to show you the ropes.

Contact: Dale, WB6MMQ  
[DGBirmingham@Gamil.com](mailto:DGBirmingham@Gamil.com)  
 213-285-9407 Call or test

## Contests/Special Events: Jan/Feb & for the whole of 2023

### January/February

#### ARRL North American QSO Party – Three

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

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](#)

### 2023 All Year long - Jan. to Dec.

#### ARRL Volunteers On the Air

(See article, this page, below)

## 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 sponsored 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](mailto:roland.anders@comcast.net).

Thanks, 73, Rol Anders, K3RA

## ARRL Letter - Excerpts of Possible Interest

### ARRL Volunteers On-the-Air Event is Underway

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](http://vota.arrl.org)). All scoring is automatically calculated through ARRL's Logbook of The World (LoTW, [www.arrl.org/logbook-of-the-world](http://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](http://vota.arrl.org).

### HAARP Thanks Amateur Radio Operators for Help with Latest Experiment

On Tuesday, December 27, 2022, the High-frequency Active Auroral Research Program (HAARP) conducted its latest ionospheric experiment of bouncing radio signals off an asteroid passing near Earth's orbit (see the [ARRL News](#) story from December 23, 2022).

Amateur radio operators and radio astronomy enthusiasts were invited to monitor the test and send their results to HAARP for analysis. While the results of the experiment will take several weeks, Jessica Matthews, HAARP Program Manager, said the help was greatly appreciated. "So far we have received over 300 reception reports from the amateur radio and radio astronomy communities from



A frosty landscape surrounds antennas at the High-frequency Active Auroral Research Program site in Gakona, Alaska, on December 20, 2022. [JR Ancheta, UAF/GI, photo]

six continents who confirmed the HAARP transmission."

HAARP officials say the results of the experiment could aid efforts to defend Earth from larger asteroids that could cause significant damage.

"We will be analyzing the data over the next few weeks and hope to publish the results in the coming months," said Mark Haynes, lead investigator on the project and a radar systems engineer at NASA's Jet Propulsion Laboratory in California. "This experiment was the first time an asteroid observation was attempted at such low frequencies," he said. "This shows the value of HAARP as a potential future research tool for the study of near-Earth objects."

The University of Alaska Fairbanks (UAF) operates [HAARP](#) under an agreement with the Air Force, which developed and owned HAARP but transferred the research instruments to UAF in [August 2015](#).

### **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

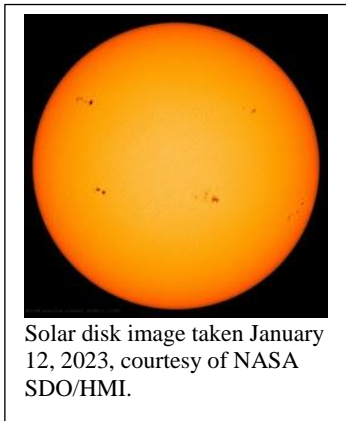
Committee. "New test designs will be available to [ARRL Volunteer Examiners](#) on that date. The ARRL VEC will supply its officially appointed, field-stocked VE teams with new General exam booklet designs around mid-June."

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.

## **The K7RA Solar Update - ARLP002**

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

Sunspot numbers are up and geomagnetic disturbances are down. What could be better? Okay, maybe Cycle 19, but that was 66 years ago and by far the all-time largest sunspot cycle.



Solar disk image taken January 12, 2023, courtesy of NASA SDO/HMI.

But this is now, we are in Cycle 25, and this sunspot cycle is emerging better than the consensus prediction. It is predicted to peak 30 months from now in the summer of 2025. Solar cycles tend to ramp up quickly and decline slowly, so we can look forward to great propagation for years to come.

There were six new emerging sunspot groups in our reporting week, January 5 - 11. The first two appeared January 5, the next on January 8, another on January 9, and two more on January 10.

The average daily sunspot number rose from 97 to 135.9, and the average daily solar flux from 157.8 to 181.2, compared to last week.

The average daily planetary A index declined from 15.4 to 6.7, and the middle latitude A index from 10.9 to 6.1.

Compare the solar numbers to last year. A year ago, in ARLP002, the average daily sunspot number was only 42.4 (135.9 now), and the average daily solar flux was 101.6 (181.2 now). Ten and 12 meters now have openings every day.

The predicted solar flux is 196 on January 12 and 13; 198, 196, 194, 192, 190, 188, and 140 on January 14 - 20; 130 on January 21 - 22; 135 on January 23; 140 on January 24 - 26; 145 on January 27; 155, 155, and 160 on January 28 - 30; 170 on January 31 - February 2; 175 and 180 on February 3 - 4; 185 on February 5 - 6; 180, 178, and 175 on February 7 - 9; 155 on February 10 - 12, and 145 on February 13.

The predicted planetary A index is 5 on January 12 - 17; 10, 18, 15, and 8 on January 18 - 21; 5 on January 22 - 24; 8, 22, 12, and 8 on January 25 - 28; 5 on January 29 - 31; 12 and 8 on February 1 - 2; 5 on February 3 - 5; 10, 12, and 8 on February 6 - 8, and 5 on February 9 - 13.

Jon Jones, N0JK, Editor for "[The World Above 50 MHz](#)" column in *QST*, writes:

"There was a 6-meter F2 opening between Ecuador and North America on January 6, 2023, around 1530 UTC, mostly between the southeast United States and Ecuador. Solar flux was 154." (Actually, solar flux was 154.3 on January 5 and 172.4 on January 6).

"Later, there was some weak sporadic-E on 6 meters. I logged W4IMD (EM84) 1942 UTC, and W7JW (EN82) on 6-meter FT8 via Es at 1954 UTC on January 6. High solar activity this week."

Sunspot numbers on January 5 through 11 were 103, 101, 104, 117, 142, 201, and 183, with a mean of 135.9. The 10.7-centimeter flux was 154.3, 172.4, 178.9, 183.8, 190.9, 193, and 195.1, with a mean of 181.2. Estimated planetary A indices were 8, 4, 6, 8, 5, 7, and 9, with a mean of 6.7. Middle latitude A index was 6, 4, 5, 7, 7, 6, & 8, with a mean of 6.1.

Send your tips, questions, or comments to [k7ra@arrl.net](mailto: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)

- Jan. 11 - 17 -- VHF-UHF FT8 Activity T (FT8)
- Jan. 14 -- YB DX Contest (phone)
- Jan. 14 - 15 -- UBA PSK63 Prefix T (digital)
- Jan. 14 - 15 -- North American QSO Party (CW)
- Jan. 15 -- RSGB AFS Contest, Data (digital)
- Jan. 15 - 16 -- Run for the Bacon QRP T (CW)



Jan. 18 -- VHF-UHF FT8 Activity Contest (FT8)

Jan. 21 – 22 - ARRL NA QSO Party - SSB

Jan. 21 - 23 -- [ARRL January VHF Contest](#)

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

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](http://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/accommdation/>.

### Announcements

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

- [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."

**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

Lunch Kitty Financials:		November	2022
Attendance: 15:			
		Lunch Kitty, Starting Balance:	<b>\$261.50</b>
<b>Expenses:</b>	Pizza (3) - Salad =	\$95.00	
	Soda: 11 @ 0.43 =	\$4.75	
	Water: 2 @ 0.25 =	\$0.50	
		<b>Food Total:</b>	<b>\$100.25</b> <b>\$161.25</b>
<b>Income:</b>	Lunch: =	\$119.00	\$280.25
Room Rent - To General Fund:		\$0.00	\$280.25
		Starting Kitty for Dec. 20, 2022 Mtg.	<b>\$280.25</b>
November	<b>Gain / Loss:</b>	<b>\$18.75</b>	

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

**Select DX News** (QRV = Ready! or Are you Ready?)**ARLD002 DX news** [Note: 'T' = contest]

This week's bulletin was made possible with information provided by W2APF, The Daily DX, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

UGANDA, 5X. Anders, SM0HPL is QRV as 5X7W from Kampala **until January 23**. Activity is on HF bands using QRP. QSL via M0OXO.

ALGERIA, 7X. Radio club 7X2VFK are QRV w/special event call sign 7U7C **during the Africa Cup of Nations** football tournament. QSL direct.

QATAR, A7. Tony, RN1B is QRV as A75GC from Doha **until the end of Jan**. QSL to RW3RN.

CAPE VERDE, D4. Harald, DF2WO is QRV as D44TWO from Sao Tiago, IOTA AF-005, **until January 21**. Activity is on 160 to 6 meters using CW, SSB, FT8, and FT4, as well as on Satellite QO-100. QSL via M0OXO.

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.

ETHIOPIA, ET. Ken, K4ZW; Bob, W9XY and Nodir, EY8MM plan to be QRV from the Ethiopian Amateur Radio Society's club station ET3AA **from January 14 to 21**. As part of their activity, they will also try to mentor newcomers to amateur radio. QSL via N2OO.

PHILIPPINES, DU. Marc, ON5SM is QRV as DU9/ON5SM from Mindanao, IOTA OC-130, **until January 21**. Activity is on the HF bands using SSB, SSTV, and FT8. QSL to home call.

GUADELOUPE, FG. Herve, F5HRY will be QRV as FG/F5HRY from Marie Galante Island **from January 19 to February 2**. Activity is holiday style on 80 to 10 meters, including 30, 17, and 12 meters, using CW, with SSB on request. QSL direct to home call.

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.

CROZET ISLAND, FT/W. Station FT8WW is QRV **until January 26**. QSL via OQRS.

THAILAND, HS. Jack, F5LIT will be QRV as HS0ZPU **from January 17 to February 6**. From **January 17 to 20**, he will be active from Krabi Island, IOTA AS-053. QSL direct to home call.

QATAR, A7. Anton, RN1B is QRV as A75GC from Doha **until the end of the month [Jan. 2023 - ed]**. Activity is in his spare time on the HF bands using CW and SSB. QSL direct to RW3RN.

CHINA, BY. Special event station BY1CRA/WRTC is QRV during **the January 2023** WRTC special event.

INDONESIA, YB. Special event station 8B0RARI is QRV **during the January 2023** WRTC 2023 special event.

NEW ZEALAND, ZL. Special event station ZL6WRTC is QRV during the **January 2023** WRTC 2023 special event.

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.

ARUBA, P4. Jeff, VA3QSL is QRV as P4/VA3QSL **until February 8**. Activity is holiday style on 40 to 6 meters using CW, SSB, and various digital modes. QSL via LoTW.

PALAU, T8. Operators Mike, JA6EGL, Kuzo, JH6WDG, and Mune, JR6DRH are QRV as T88SM, T88AQ, and T88RH, respectively, from Koror Island, IOTA OC-009, **until January 19**. Activity is on 160 to 6M using CW, SSB, and various digital modes. QSL to home calls.

CONGO, TN. A group of operators are QRV as TN8K **until January 21**. Activity is on 160 to 6 meters using CW, SSB, RTTY, PSK, FT8, and FT4. This includes being active on Satellite QO-100. QSL via OK6DJ.

CONGO, TN. A group of operators are QRV as TN8K **until January 21**. Activity is on 160 to 6 meters using CW, SSB, RTTY, PSK, FT8, and FT4. This includes being active on Satellite QO-100. QSL via OK6DJ.

CROZET ISLAND, FT/W. Station FT8WW is QRV **until January 26**. QSL via OQRS.

SCOTLAND, GM. Special event station GB2KW is QRV **until January 28** near Inverness using vintage equipment. QSL via LoTW.

LITHUANIA, LY. Special Event station LY700 VLN is QRV **during all of January** to celebrate 700 years of the capital city of Vilnius. QSL#3

ANTARCTICA, VP8. 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.

SENEGAL, 6W. Earl, WA3DX will be QRV as 6W1/WA3DX from Dakar and Mbaou, 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

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 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

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.

KYRGYZSTAN, EX. Bob, DU7ET is QRV as EX0ET from Bishkek, Holiday style, during his daylight hrs on 30 to 10M on CW [**listed 12/ '22 – ed**]. QSL #1

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 12/ '22 – ed**] QSL via JA8CJY.

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

#### Until End of 2023

ANTARCTICA. Sunny, VU2CUW is QRV as AT4ZI 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 Amateur Radio Club. QSL via LoTW

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.

#### 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](http://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](mailto:N6AA@arrl.org)

**LAX Section Officers:**

Section Manager: Diana Feinberg, AI6DF

[AI6DF@arrl.org](mailto:AI6DF@arrl.org) or 310-544-2917

Asst. Section Manager: Mark Chung, KK6SMD

[mchung@prodigy.net](mailto:mchung@prodigy.net)

LAX Section Traffic Mngr: Kate Hutton, K6HTN

For Radiogram formatting instructions go to

[www.ARRLAX.org](http://www.ARRLAX.org) .

**Los Angeles Area Council of ARCs**

President: Mark Seigel

[Mark.Seigel@Gmail.com](mailto:Mark.Seigel@Gmail.com)

**RF Safety** – Power Density Web site:

[http://hintlink.com/power\\_density.htm](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](http://www.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>



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:

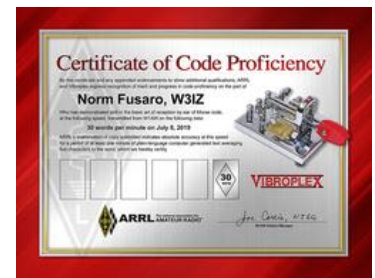
CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 & 15 WPM  
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 & 10 WPM  
 CWb = Morse Code Bulletins = 18 WPM

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](http://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
Jan.	1/17		1/19	<b>1/18</b>		1/20		1/23	<b>1/24</b>	<b>1/26</b>	1/27		
Feb.		2/1		2/2	2/3	2/7	2/8		<b>2/9</b>				2/10
Feb.	2/15		2/16	<b>2/13</b>		2/17		2/21		<b>2/23</b>	2/24		



**West Coast Qualifying Runs:**

Wed. Jan 25 @ 9 PM PST (0500 UTC on Jan. 26) on 3590 & 7047.5 kHz by K9JM sending speeds 40 to 10 WPM  
 Wed. Feb 22 @ 7 PM HST (0500 UTC on Feb. 23) on 7047.5 & 14047.5 kHz by KH6TU sending speeds 10 to 40 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/](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:**

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

**Committees:**

<b>NEWSLETTER EDITOR:</b>	Dale, WB6MMQ	WB6MMQ at ARRL.net
<b>QUARTERMASTER:</b>	Michael, N6MHD	N6MHD at ARRL.net
<b>WEB MASTER:</b>	Richard, KM6FP	RunFarr at Gmail.com
<b>YAHOO GROUPS:</b>	Richard, KM6FP	RunFarr at Gmail.com ( <a href="http://groups.yahoo.com/w6ha">http://groups.yahoo.com/w6ha</a> )
<b>MEMBERSHIP:</b>	Dale, WB6MMQ	WB6MMQ at ARRL.net
<b>SCRRBA REP:</b>	Ray, WA6NVL	WA6NVL at ARRL.net
<b>MEETING HOST:</b>	Dale, WB6MMQ	WB6MMQ at ARRL.net
<b>CLASS Coordinator:</b>		
<b>FIELD DAY Coordintrs :</b>	Brian, Dale, Howard	See above
<b>NET COORDINATOR:</b>	Howard, KE6MAK	Karse1 at DSLextreme.com
<b>RACE COORDINATOR:</b>	Dale, WB6MMQ	WB6MMQ at ARRL.net
<b>ANT. TRAILER Coor:</b>	Brian, AB6UI	AB6UI at AOL.com
<b>RAYTHEON Coor:</b>	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:** 1<sup>st</sup> 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](http://www.W6HA.org) ;.net and .com will also get you there.

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