



# The Transponder



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

January 15, 2021 Repeater 445.620 – PL 127.3 Web Site: <http://W6HA.com> Vol. XLVIII, No. 1

**\*\*\* CLUB MEETING O-T-A (MOTA)\*\*\***

**Where:** The club’s Repeater, and Zoom (See E-mail for ID & PW)  
**Location:** Repeater location – “High Above LAX”

**Meeting Notice:** Date: Tuesday, January 19, 2021  
Time: Pre-Meeting: Gather, Exchange Greetings  
Meeting Call to Order: 12 to 1 PM  
On-Air Roll Call (Sign-In), 11:30 (informal discussion / Greetings)

### Featured Presentation:

#### Antenna Performance Reality vs Claims

Presented by: Neil Blaho AA3EO  
RFI/EMI Engineer and SME

### Up Coming Events:

February, 20 & 27 (all day) Technician Class (See article on pg 3)  
June 26, 27 – Field Day 2021

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**Lunch:** You are on your own, but my recommendation: Order some pizza, delivered, from the club’s supplier – Tower Pizza on Lincoln Blvd – 310-410-0986, say Hughes ARC or me, (Dale) sent you.

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

Wednesday Evenings at 7:30 PM – Hughes ARC members net, (then Simplex @ 146.55)

Thursdays about Noon (12:05 PM) Raytheon & other Emergency Communication Teams (ECT)

Other nets: See last page

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

*This program is not sponsored by the El Segundo Public Library.*

Club News:**Contests for January - February****ARRL North American QSO Party****SSB - Jan. 16, 1800 to Jan. 17, 0559 UTC****Exchange: Name, State/DC/Province/Country,****Rules: <http://www.ncjweb.com/naqp/>**

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.

**ARRL, January VHF Contest****January 16, 1900 UTC to January 18, 0359 UTC;****CW, ph, Dig; Exchange;; 4-character grid square**

**Contest Objective:** For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree Maidenhead grid squares as possible using authorized frequencies above 50 MHz. Stations outside the US & Canada (and their possessions) may only work stations in the US (and its possessions) and Canada.

**CQ WW RTTY WPX Contest**

February 13 0000z to February 14 2359z

Rules and Info: [www.cqwxrtty.com](http://www.cqwxrtty.com)**ARRL International DX Contest, CW**

February 20 0000z to February 21 2359z

Rules and Info: [www.arrl.org/arrl-dx](http://www.arrl.org/arrl-dx)**HNLB Jan. Zoom Meeting Report**

Friends,

We held our 1st "Tuesday Lunch " Zoom meeting yesterday with 10 attendees. (We should have started this months ago!!) We decided to continue these on the 1st Tuesday of each month at 4pm Pacific Time because it was so great to see each

other and create QRM. I'll be sending out a reminder each month.

Included are N6HUQ, from CO; N6IC, W6LXR, NY6Y, all from the valley; KK6MFL, from her van; and W6IVO, W1MII, WB6MMQ, WA6TLA, and N6VZF, from the beach.

We did a lot of catching up and Don annoyed us by eating a chocolate bar made by his Anchorage daughter and making yummy noises.

Please try to join us on Feb. 2, 4pm, for our next session. If you need help getting on Zoom, please let me know and we'll do a 1-on-1 tutoring to get you going.

73 & 88 (I miss you all),  
Betty, N6VZF

**Subject: QST QST QST Balloon Update**

Hello one and all,

This is incredible! The N6RRY-11 has showed up again. It is just flying along at about 39K ft at a speed of 123 MPH in almost Easterly direction. Tom has reported this balloon to have gone at least 4 times around the world, maybe even 5 times. It's off the coast of Northern Japan. So go check it out [aprs.fi](http://aprs.fi) and search for N6RRY-11. This is really incredible it is setting all kind of records. The longest time up in the air the number of times it circumnavigated the world and flies along at a speed of 129 MPH. Well maybe that is not a record but it has certainly shattered Bruce his record. Wow all I can say is Greg N6RRY sure got his money's worth out of that one.

Thanks, Joe, WB6MYD

[The above, an e-mail Forwarded to W6HA by Paul, KK6TAC. As I compose, it is still up-ed]

**HARC Net News:**

Happy New Year to All!

Having recovered from the New Year festivities and into the New Year I give you the past two weeks of HARC Weekly Net check ins. [and 1/6/21 added by ed] Thanks to Alice, KK6MFL, for logging the check in's on 12/23/20! As noted on the reports, shown side by side, the Simplex net was not held the last two weeks of the month for expedience sake and a holiday break. Of note, on

our last net of the year we were joined by Dillon, KN4DDQ, who has very recently relocated to the South Bay. WELCOME to our friendly corner of the Ham Radio World and we look forward to your continued participation.

So; How did we do?

12/23/20	12/23/20	12/30/20	12/30/20	1/6/21	1/6/21		
RPTR	SMPX	RPTR	SMPX	RPTR	SMPX	Operator	Name
				X	X	K6BRN	BRIAN
		X				KN4DDQ	DILLON
X						KN6HVH	SUZANNE
X						KM6HVK	BILL
X		X		X	X	N6IET	RICK
X						N6JZT	HAL
X		X		X	X	K6LDQ	JON
X				X	X	N6MHD	MIKE
		X				N6MDV	MIKE
X		X		X	X	KK6MFL	ALICE
		X		X	X	WB6MMQ	DALE
X				X	X	KM6RWQ	KEVIN
X		X		X		KV6R	TIM
X		X		X		WA6SET	TOM
				X	X	KK6TDU	SCOTT
X		X		X		KM6PFI	JON
X		X		X	X	K6PNJ	PHIL
		X		X	X	AB6UI	BRIAN
				X		KK6WYW	BOB
X		X		X	X	KE6MAK	HOWARD

Wishing you ALL a GREAT start of our new year and looking forward to seeing you:  
 WEDNESDAY 6 JANUARY, 2021 AT 7:30 pm  
 LOCAL TIME on the HARC REPEATER!

73, Howard KE6MAK

[Note: The above is a combination of Howard's e-mail of 1/2/21 and Dale's net report from 1/6/21 – ed]

**For Sale: by former Club President  
 Chuck, KN6H, Tower and Antennas –  
 For Free**

Tristao 60' 3-section guyed crank up tower  
 KT-34A 4-section triband beam, 10/15/20 meters  
 CDE Ham III Rotor

TRK80 Tower Raising Fixture  
 Telex HyGain V-2 2-meter vertical

All construction was covered by Torrance City Permit. Everything in very good physical and electrical shape.

I also have a ham who will take it down, deliver to a new location, and set it up. It is available free if the new owner will arrange all the work with this fellow.

Contact Chuck KN6H (310) 325-3184 home  
 (310) 528-7163 Cell  
[CLobb2@aol.com](mailto:CLobb2@aol.com)

**Winter 2021 Technician Licensing Class**

The club is teaching another technician license class via Zoom in February. Specifically it will be all day Saturday Feb 20 and 27. Half of the material is the first week the rest the second week.

The class is free. We will be doing it virtually via zoom. This will be our third zoom class. It is working well, with several students from the last class getting perfect scores on their test.

If you know someone who would be interested in the class - family member, friend, team member..., please let them know about this opportunity. They should register by sending an email to [w6haclub@w6ha.com](mailto:w6haclub@w6ha.com).

More information including the agenda is on the training page of the club web site at <http://w6ha.com>.

Also, if you would like a refresher, you are welcome to attend as well. Please let me know if you have any questions. Thanks for getting the word out.

Mike, N6MDV

Lunch Kitty Financials – for Feb., 2020

**Attendance:** 21

Starting Lunch Kitty:	\$ 150.75
Expenses: Pizza(1) & Salads	\$102.00
Drinks: Soda: 8 @ 0.375 =	\$3.00
Water 2 @ 0.25 =	\$0.50
Food Total:	\$105.50 \$ 45.25
Income: Lunch:	\$108.75 \$154.00
Room Rent-To General Funds:	\$00.00 \$154.00

Starting - Kitty for Mar 17, 2019 Mtg: \$154.00  
[Gain of \$3.25 - \$20.00 for room rent = Loss of 16.75]

**ARRL Letter - Expects of Possible Interest****Dayton Hamvention Cancels 2021 Show**

[Dayton Hamvention](#)<sup>®</sup> has been canceled for the second year.



"Unfortunately, several setbacks in the recovery from the COVID-19 pandemic make necessary the difficult decision to cancel Hamvention 2021," a January 11 announcement from the Hamvention Executive Committee said. Sponsored by the Dayton Amateur Radio Association ([DARA](#)), Hamvention was set to take place May 21 - 23 in Xenia, Ohio.

"Hundreds of volunteers have been working to do everything necessary to bring this Hamvention to the many amateur radio enthusiasts and vendors who support the Dayton Hamvention," the committee continued. "Vaccine distribution both in the United States and around the world is lagging behind what was planned. In addition, the emergence of a more communicable form of the COVID-19 virus increases the potential for further public health problems in the next few months. We make this difficult decision for the safety of our guests and vendors." Tickets deferred last year will be deferred again until 2022.

The Hamvention Committee hinted at a QSO party for Hamvention weekend. In November, Hamvention had announced that "The Gathering" would be the theme for the 2021 show.

Hamvention is the largest annual amateur radio gathering in the US, and was the host of the ARRL National Convention for its last event, held in 2019. The ARRL [Hamfest and Convention Calendar](#) includes a searchable database that includes other [canceled](#) in-person events.

**ARRL Learning Network Webinars**

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions. The schedule is subject to change.

**Easy Helical Copper Tape and PVC 2-Meter Vertical Antenna -- John Portune, W6NBC**

Here's how to quickly build a tiny, 18-inch, continuously loaded lightweight portable or base station 2-meter omnidirectional vertical antenna

with performance and efficiency comparable to a 5-foot J-pole. The antenna is built from hardware store copper tape and PVC pipe, and the cost is roughly \$10. It's an easy afternoon's homebrew project, ideal for the new ham but equal to the experienced ham's needs. It's great for events like bike-a-thons. It also makes an excellent ham radio club hands-on building project, and the design is adaptable to other bands. **Tuesday, February 2, 2021, 10 PM PST / 1 PM EST (1800 UTC)**

**Interesting Stories about Ham Radio & Weather Spotting -- Rob Macedo, KD1CY**

One of the most critical ways amateur radio supports agencies such as the National Weather Service (NWS), National Hurricane Center (NHC), and emergency management is through weather spotting via the NWS SKYWARN program. This presentation reviews some interesting stories about how amateurs involved in SKYWARN have saved lives and property and why this is an important amateur radio activity. **Thursday February 11, 2021 @ 8 pm EST (0100 UTC on Friday, February 12)**

**Seven US Schools Move Forward in ARISS Selection Process**

Amateur Radio on the International Space Station ([ARRL ISS](#)) has announced that seven schools or host organizations selected for the July - December 2021 contact window have moved forward in the processes of planning to host a scheduled amateur radio contact with a space station crew member. ARISS' primary goal is to engage young people in science, technology, engineering, arts, and math (STEAM) activities and raise their awareness of space communications, radio communication, space exploration, and related areas of study and career possibilities.



The schools/organizations are:

- Monroe Carell Jr. Children's Hospital at Vanderbilt University in Nashville, Tennessee
- Tarwater Elementary School in Chandler, Arizona
- Museum of Science & Technology in Syracuse, New York
- SpaceKids Global and Girl Scouts of Citrus in Winter Park, Florida

- Illinois Wing Civil Air Patrol in St. Charles, Illinois
- Children's National Hospital in Washington, DC
- Savannah River Academy in Grovetown, Georgia

ARISS is now working with hosts to complete acceptable equipment plans that demonstrate their ability to carry out a ham radio contact. Once their equipment plan is approved by the ARISS Technical Mentors, the final list of host schools/organizations will be scheduled as their availability and flexibility match up with contact opportunities offered by NASA.

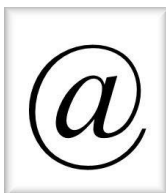
This year, ARISS celebrates 20 years of continuous amateur radio operations on the ISS.

### **FCC to Require Email Address with Applications and on File**

Effective on June 29, 2021, amateur radio licensees and candidates must provide the FCC with an email address on all applications. If no email address is included, the FCC may dismiss the application as "defective." On September 16, the FCC adopted a *Report and Order (R&O)* in WT Docket 19-212 on "Completing the Transition to Electronic Filing, Licenses and Authorizations, and Correspondence in the Wireless Radio Services," which [appeared](#) on December 29 in the *Federal Register*. The FCC has already begun strongly encouraging applicants to provide an email address and will email a link to an official electronic copy of the license once it's granted.

While many, if not most, amateurs already have provided an email to the FCC, this also will become a requirement. Under Section 97.21 of the new rules, as amended, the holder of a valid amateur radio station license "must apply to the FCC for a modification of the license grant as necessary to show the correct mailing and email address . . . and submit the information to the FCC in an electronic batch file. . . .

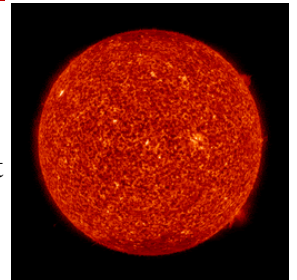
"Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address."



Licensees can log into the ULS [License Manager System](#) with their FRN and password to update their FCC license record, including adding an email address. For questions or password issues, call the CORES/FRN Help Line, (877) 480-3201 (Monday - Friday, 1300 - 2300 UTC) or [reset the password](#) on the FCC website. Read [more](#).

### **The K7RA Solar Update**

Tad Cook, K7RA, Seattle, reports: Solar Cycle 25 seemed well under way, but no new sunspots emerged since December 23. The last time any sunspot was visible was January 2.



Average daily solar flux declined from 78.6 to 73.8. Geomagnetic A index remained quiet. Predicted solar flux for the next 30 days is 73,

73, and 74 on January 14 - 16; 75 on January 17 - 19; 73 and 75 on January 20 - 21; 78 on January 22 - 27; 77 on January 28 - 31; 75 on February 1 - 6, and 74 on February 7 - 12. Solar flux is expected to peak at 78 again after February 14.

Predicted planetary A index is 5 on January 14 - 16; 10, 12, 10, and 8 on January 17 - 20; 5 on January 21 - 24; 8 on January 25 - 26; 5 on January 27 - 31; 10 on February 1 - 2, and 5 on February 3 - 12.

Peering at the [STEREO](#) spacecraft, I see a promising bright spot a few days from now in our sun's southern hemisphere, so perhaps that indicates a new sunspot over the solar horizon.

Space Weather Woman Tamitha Skov, WX6SWW, has posted this [video](#) discussing the lack of sunspots and the latest space weather news.

Carl Luetzelschwab, K9LA, gave an excellent talk on propagation for the Madison DX Club on January 12. The [video](#) will be posted soon. Until then, you can watch a presentation on Solar Cycle 25 by Douglas Biesecker of NOAA via the same link.

Sunspot numbers for January 7 - 13 were 0, 0, 0, 0, 0, 0, and 0, with a mean of 0. The 10.7-centimeter flux was 74.6, 75.2, 74.2, 73.1, 73.2, 72.8, and 73.2, with a mean of 73.8. Estimated planetary A indices were 6, 2, 3, 3, 14, 9, and 4, with a mean of

5.9. Middle latitude A index was 4, 1, 2, 3, 10, 8, and 3, with a mean of 4.4.

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](#) K9LA's Propagation Page.

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

[Share](#) your reports and observations

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### **Just Ahead in Radiosports**

January 16 -- WAB 1.8 MHz (CW, ph)

January 16 - 17 -- Hungarian DX Contest (CW, ph)

January 16 - 17 -- PRO Digi Contest

**January 16 - 17 -- North American QSO Party, SSB**

January 16 - 17 -- NA Collegiate Chmpnship, SSB

January 16 - 17 -- Feld Hell Sprint

**January 16 - 18 -- ARRL January VHF Contest (CW, phone, digital)**

January 17 - 18 -- Run for the Bacon QRP Contest (CW)

January 18 -- K1USN Slow Speed Test (CW -- 20 WPM max)

January 21 -- NAQCC CW Sprint

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.

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### **ARRL Section, State and Division Conventions / Hamfest**

[in the West or near members everywhere:](#)

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**Note:** Many conventions and hamfests have been canceled or postponed due to the coronavirus pandemic. Check the [calendar of canceled events](#) on the ARRL website.

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February 13 - 14 -- [Orlando HamCation Special Edition](#) (online)

March 13 - 14 -- [QSO Today Virtual Ham Expo](#)

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Find conventions and hamfests [in your area.](#)

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### **In Brief...**

The [ARRL January VHF Contest](#) is on tap for the weekend of January 16 - 18.

While using the FT modes, if the indicated dB signal level approaches or exceeds 0 dB, conditions are likely good enough for CW or SSB (FT4 mode can provide faster contacts than FT8). Contacts using those modes can be made more quickly under those conditions. *More fun:* The North American Collegiate Championship ([NACC](#)), sponsored by the Society of Midwest Contesters, returns this year starting with the North American QSO Party SSB ([NAQP](#)) on January 16. The NACC is a competition between colleges and university amateur radio stations using the "contest-within-a-contest" format during the NAQP SSB and NAQP RTTY events. Teams must register in advance. Contest sponsors are aware that spring terms may be delayed due to the pandemic. NACC will use the [Contest Online ScoreBoard](#). More information is on the [NACC page](#). -- Thanks to the *ARRL Contest Update*



The 2021 [AM Rally](#) is set for the first weekend in February. The

popular event takes place from 0000 UTC on Saturday, February 6 to 0700 UTC on Monday, February 8. The annual AM Rally operating event encourages all operators to explore amateur radio's original voice mode by showcasing the various types of amplitude modulation equipment in use today, ranging from early vacuum-tube radios to the latest SDR-based transceivers. "Participation in the AM Rally has continued to grow over the past 5 years, as more operators explore the mode," said Clark Burgard, N1BCG. "The AM Rally is a great way to beat the winter and COVID-19 blues." The AM Rally is open to all radio amateurs capable of operating on AM using any type of radio equipment from vintage to modern, vacuum tube to solid state. The AM Rally will use the 160-, 80-, 40-, 20-, 15-, 10-, and 6-meter bands. "Those who have never tried AM mode will find plenty of help, if needed,"



Burgard assured. An AM Rally 2021 [promotional video](#) is available. [Contact](#) Burgard - information.

**New Amateur VLF Transatlantic Record**

Set Very low frequency (VLF) enthusiast Joe Craig, VO1NA, reports that Stefan Schaefer, DK7FC, copied his 50-character message transmitted from Newfoundland on 8.271 kHz, with a radiated



power of 10 mW. "This is a new record for amateur transatlantic VLF," Craig told ARRL. "The mode used was [EbNaut](#) by Paul Nicholson. *EbNaut* is a synchronous coherent BPSK mode for use at VLF and LF. Craig's tower supports a VLF RL (rotated L) 10-meter (33 feet) average height and 100 meters (328 feet) long. VLF is the ITU designation for radio spectrum in the range of 3 - 30 kHz, corresponding to wavelengths from 100 to 10 kilometers, respectively. "Since VLF waves can penetrate at least 40 meters (131 feet) into saltwater, they are used for military communication with submarines," Craig noted.

**SEA-PAC Cancels In-Person Convention**

[SEA-PAC](#), designated as the 2021 ARRL Northwestern



Division Convention, will not take place as an in-person gathering this June. "The SEA-PAC Executive Committee has been closely monitoring the continuing COVID-19 pandemic situation and has determined that the safest course of action for all is to cancel the 2021 in-person event," SEA-PAC 2021 Chair John Bucsek, KE7WNB, announced this week. "This decision was based on the uncertainties of more COVID outbreaks, vaccine availability to all, and the probable social distancing requirements. But most important, it is based on our genuine concern for the health and safety of you, the attendees, vendors, and presenters. We firmly believe that providing our ham radio community with a safe and quality convention experience is paramount." Bucsek said the SEA-PAC Committee is exploring alternative online and on-air activities.

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**Announcements**

- The [Reverse Beacon Network](#) has announced some enhancements. Pete Smith, N4ZR, said, "Thanks to Mark Glenn, K7MJG, the RBN beta site's world map now displays currently and recently active RBN nodes, along with spots. Red dots denote nodes that have made at least one spot in the last 30 minutes."

- The Fédération des clubs radioamateurs du Québec (RAQI) is marking the 70th anniversary of RAQI in 2021 with Quebec Parks On The Air ([QcPOTA](#)). The event will take place from April 1 to December 31, 2021.



- The ebook, [Capture the MAGIC of Six Meters](#), by Jim Wilson, K5ND, is available for free download. It covers propagation, equipment, software, antennas, awards, and contesting, as well as assistance in finding the magic, Wilson says.

- Tom Roscoe, K8CX, has 149 "[rare DX MP3 sound clips](#)" on his [Hamgallery.com](#) site. Some of the nearly 3,000 classic clips go back to the 1960s.

- **The RAC Canada Day Contest 2020** results and soapbox are [now available](#). The more than 735 participants counted among the best turnouts in recent years.



- **International Space Station (ISS)** - Radio amateurs and others may listen for ham radio activity from the ISS by monitoring **145.800 MHz**.

- **Amateur Radio on the International Space Station** ([ARISS](#)) says its InterOperable Radio System (IORS), launched in March, has now been in space about 6,655 hours and traveled some 116.5 million miles, according to the Arduino-based Space Radio clock by Kerry Banke, N6IZW, of the ARISS Hardware Team.

"I got some batteries that were given out free of charge."

**Select DX News** (QRV = Ready! or Are you Ready?)**ARLD002 DX news**

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

AUSTRALIA, VK. Grant, VK5GR will be QRV as VK5KI from Kangaroo Island, IOTA OC-139, from **January 11 to 22**. Activity will be holiday style on 80 to 6 meters using CW, SSB and FT8, and possibly with RTTY and PSK. QSL via M0OXO

MALDIVES, 8Q. Massimo, IZ5KID is QRV as 8Q7MM from Male and is here **until around January 23** while on work assignment. Activity is in his spare time on 40, 30, 20 and 15 meters using FT8. QSL to home call.

ZAMBIA, 9J. Brian, 9J2BO is usually active on 40 meters using CW from 0330 to 0500z. [**listed Jan.'21-ed**] QSL via EA5GL.

ANDORRA, C3. Joan, C31US is usually QRV on 40 meters using CW between 0700 and 800z. [**listed Jan.'21-ed**] QSL to home call.

BOLIVIA, CP. Antonio, EA5RM is QRV as CP1XRM from San Ignacio de Moxos until **January 26**. Activity is on the HF bands using SSB and various digital modes. QSL to home call.

ANTARCTICA. Operators Taka, JA1AGS and Hiro, JH7JCX are QRV as 8J1RL from Syowa Station, IOTA AN-015, **until the end of January, 2021**. Activity is on 40 to 15 meters using mainly FT8. QSL via bureau.

SVALBARD, JW. Erling, LB2PG is QRV as JW/LB2PG from Bear Island, IOTA EU-027, **until June 1**. Activity is on 80 to 20 meters using SSB. QSL to home call.

ALASKA, KL7. As part of the Alaska RST QSO Party 2021, stations K7ICE, KL7CCN, KL7JR, KL7RST, KL7RST/KL7, VE8RST/KL7, VY0RST/KL7, and VY1RST/KL7 are QRV **until February 15** from various regions here. QSL via

operators' instructions.

NIGER, 5U. Adrien, F5IHM is QRV as 5U4IHM **until February 11**. Activity is on 40 and 20 meters using CW. QSL direct to home call.

ARGENTINA, LU. Members of AMSAT Argentina will be QRV as LU7AA from **January 16 to 24** to commemorate the 31st anniversary of the launch of Satellite LO-19. Activity will be on the HF bands and V/UHF bands using CW, SSB, various digital modes, SSTV, and FM on various satellites. QSL direct to LU7AA.

ANTARCTICA. Seba, SQ1SGB and Will, M0ZXA are QRV as either VP8/SQ1SGB or VP8HAL from Halley VI Research Station until February 4. They are active in their spare time on 40 and 20 meters using JT65 and FT8. QSL #2

BULGARIA, LZ. Special event station LZ1340B is QRV to celebrate the 1340th anniversary of the First Bulgarian Empire. [**listed Jan. 2021-ed**] QSL via LZ3SM.

INDIA, VU. Special event station AT2YAR is QRV **until March 1** to celebrate 100 years of amateur radio. QSL via VU3ZHA.

NETHERLANDS, PA. Special event station PC19HOPE is QRV **until March 10** to support efforts in containing the COVID-19 pandemic. QSL via PA7HPH.

SEYCHELLES, S7. Ravi, S79VU has been QRV on 40 meters using FT8 around 0145z. [**listed Jan.'21 - ed**] QSL via N4NGR.

POLAND, SP. Members of the SEDINA Contest Club are QRV with special event call sign SQ0MORSE from Szczecin **until April 30** to celebrate the 230th anniversary of the birth of Samuel F. B. Morse. Activity is on various HF bands. QSL via SP1EG.

WESTERN KIRIBATI, T30. Jack, T30TM has been QRV on 20 meters using SSB around 0530z. QSL via VK1TX.

GABON, TR. Alain, TR8CA has been QRV using



CW and RTTY on 20 meters between 1600 and 1730z. QSL via F6CBC.

MALI, TZ. Jeff, TZ4AM has been QRV on 30 and 17 meters using CW between 1745 and 2000z. QSL via WOSA.

EUROPEAN RUSSIA, UA. Special event station R170SG is QRV until the **end of January** to celebrate the founding, 170 years ago, of the province Samara. QSL via operators' instructions.

INDIA, VU. Members of the West Bengal Radio Club are QRV as AT2GSI from Sagar Island, IOTA AS-153, **until January 16** recognizing a Hindu pilgrimage to the confluence of the river Ganges and the Bay of Bengal. QSL #2

UK SOVEREIGN BASE AREAS ON CYPRUS, ZC4. Garry, 2M1DHG is QRV as ZC4GR for the next few years. [listed Jan. 2021 - ed] Activity is mainly on 40 to 10 meters using SSB and FT8, and possibly SSTV, PSK31 and WSPR in his spare time. QSL via EB7DX.

CAYMAN ISLANDS, ZF. Pete, K8PGJ is QRV as ZF2PG **until January 17**. He is active using SSB and plans to be an entry in the North American SSB QSO Party. QSL to home call.

#### Long Term (more than 1 month)

ZAMBIA, 9J. Rob, IK2LON is QRV as 9J2RD while **living in Ndola**. [Listed Dec. 2020 – ed] Activity is on the HF, VHF and UHF bands using SSB, RTTY and FT8. QSL via IZ8CCW.

JAPAN, JA. Special event call 8N1IZA is QRV **until March 31** to celebrate the 50th anniversary of Niiza City.

GEORGIA, 4L. Peter, G4ENL plans to be QRV as 4L1PJ from Svaneti while on work assignment. He expects to be here for the **next few years**. [listed Jan. 2021-ed] Activity is on various HF bands using SSB. QSL via N4GNR.

ANGOLA, D2. Paulo, CT1FJZ is QRV as D2FJZ from the Province of Cuando-Cubango until **September 2021** while on work assignment.

Activity is on 80 to 10 meters using SSB. QSL direct to home call.

CHINA, BY. Dale, BA4TB is QRV as B9/BA4TB from Xining city in the Qinghai province. [Listed Nov. '20 – ed] QSL to home call.

DJIBOUTI, J2. Rene, DL2JRM will be QRV as J28XX. Activity is on 80 to 10 meters using CW and SSB. [Listed Nov. '20 – ed] QSL to home call.

ANTARCTICA, RI1. Alexander, RX3ABI will be active as RI1ANM from the Russian Mirny Station in Queen Mary Land, (AN-016), on the coast of the Davis Sea, **until early 2021**. Activity will be on HF bands during his spare time. QSL#1

JAPAN, JA. Members of the Yoneyama HF Club (JR0YHF) will be operating special event station 8J0K in celebration of the 80<sup>th</sup> anniversary of Kashiwazaki city in Niigata Japan, until **Mar. 31, 2021**, on 1.8 MHz through 5.7 GHz.

SOUTH SUDAN, Z8. James, Z81C is QRV from Juba while working for a non-governmental organization. [until March 2021-ed] Activity is mostly on SSB. QSL #2

CHATHAM ISLANDS, ZL7. Operators Chris, ZL2DX and Catherine, ZL2QT are QRV as ZL7DX and ZL7QT, respectively, from Waitangi, IOTA OC-038, (**until July 2021 – ed**). Activity is on the HF bands and 6M EME. QSL via M0OXO.

#### Until 2022

NICARAGUA, YN. Trevis, YN7ZTR is a missionary working in Gaunacastillo for the next two years. He is active in his spare time. [Until **2022-June-ed**] 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 via operators' instructions.
3. QSL via bureau
4. QSL via LoTW
5. QSL via Instruction on QRZ.com
6. QSL via eQSL
7. QSL via QRZ.com
8. QSL via ClubLog

**AMATEUR RADIO LICENSING EXAMS:**

TRW Swap meet 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)) [inactive - Covid-19-ed]

**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™](#) 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 LAX Section Officers:**

Section Manager: Diana Feinberg, AI6DF

PO Box 4678

Palos Verdes Peninsula. Ca 90274-9618

[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) .

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

[http://hintlink.com/power\\_density.htm](http://hintlink.com/power_density.htm)

Links: TRW license test

<http://w6trw.com/index.php/amateur-radio-license-testing/>

**PodCast – Amateur Radio News**

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

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

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 – Brian, AB6UI (President)

**Southern California Band Plans:**

**Tasma** – 2 Meters

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

220 MHz Spectrum Mngmnt Assoc. of So. Ca

**220SMA BAND PLAN**

<http://www.220sma.org/bandplan.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:

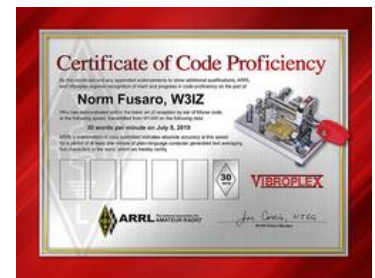
- CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 & 15 WPM
- CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 & 10 WPM
- CWb = Morse Code Bulletins = 18 WPM

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](http://www.arrl.org/qualifying-run-schedule)]

Starting in Dec. W1AW will transmit Qualifying Runs up to 16 times per month.  
 Time is PST: [10 – 35 wpm – **Bold 35 – 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.		1/22	1/21	<b>1/20</b>	1/19			1/25	<b>1/27</b>	<b>1/28</b>	1/29		
Feb.		2/1	<b>2/2</b>	2/4	2/5	2/9	2/10		<b>2/11</b>			2/12	1/16
Feb.				<b>2/17</b>		2/19	2/18	2/22	<b>2/24</b>	2/25	2/26		



**West Coast Qualifying Runs:**

**Wed. Jan. 27 @ 9PM PST (0500 UTC Jan. 28) on 3590 & 7047.5 kHz by K9JM, 40 – 10 WPM**  
**Wed. Feb 24 @ 6 PM HST (0400 UTC Feb. 25) on 7047.5 and 14047.5 kHz by KH6TU 10 – 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 New Weekly Slow-Speed CW Contest**

The K1USN Radio Club in Massachusetts is launching a new weekly, hour-long, slow-speed contest, the [K1USN SST](#). The inaugural session will be on **Sunday, September 13, 2020 4 to 5 PM PST (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.

**2020 – 2021 CLUB OFFICERS****Elected Officers:**

<b>PRESIDENT:</b>	Brian, AB6UI	President at W6HA.com
<b>VICE PRESIDENT:</b>	Howard, KE6MAK	W6HA_VicePresident at W6HA.com
<b>SECRETARY:</b>	James, W6JIC	W6HA at W6HA.com
<b>TREASURER:</b>	Paul, KK6TAC	Treasurer at W6HA.com
<b>STATION MANAGER:</b>	Mike, N6MHD	W6HAStationMgr at W6HA.com
<b>Immediate PAST PRES.:</b>	Mike, N6MDV	W6HA at W6HA.com

**Committees:**

<b>NEWSLETTER EDITOR:</b>	Dale, WB6MMQ	W6HA_Editor at W6HA.com
<b>QUARTERMASTER:</b>	Mike, N6MHD	W6HAStationMgr at W6HA.com
<b>WEB MASTER:</b>	Mike, N6MDV	W6HA at W6HA.com
<b>MEMBERSHIP:</b>	Dale, WB6MMQ	W6HA at W6HA.com
<b>SCRRBA REP:</b>	Ray, WA6NVL	WA6NVL at ARRL.net
<b>MEETING HOST:</b>	Dale, WB6MMQ	W6HA at W6HA
<b>Asst. Host:</b>		W6HA at W6HA
<b>FoTL Conf. Rm. Coor:</b>	Judi, KI6TKT	
<b>FIELD DAY :</b>	Mike, N6MDV, Brian, AB6UI	FieldDay at W6HA.com
<b>MEMBERSHIP:</b>	Dale, WB6MMQ	W6HA at W6HA.com
<b>NET COORDINATOR:</b>	Howard, KE6MAK	W6HA at W6HA.com
<b>YAHOO GROUPS MOD:</b>	Richard KM6FP	W6HA at W6HA.com ( <a href="http://groups.yahoo.com/w6ha">http://groups.yahoo.com/w6ha</a> )
<b>CLASS MODERATOR:</b>	Mike, N6MDV	W6HAClass at W6HA.com

**RAYTHEON Coorndator:**

**CLUB REPEATER:** W6HA 445.620 MHz (-) PL 127.3 Hz Location: Bldg. R1 roof  
**Packet** (node :hughes) 145.61s W6HA

**HARC Repeater Nets: Wednesdays, 7:30 PM (0200 UTC Thursdays)**

**Thursdays, 12:05PM (1900 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: 1<sup>st</sup> Tuesday of the month, 7:00 PM**

**HAC NET: Hughes ARC - 14.233 mHz +/- QRM, 2<sup>nd</sup>, 4<sup>th</sup>, 5<sup>th</sup> Tuesdays, 2000 UTC (13:00 PDT) – Tests in , 2020**

**Club Shack:** The club shack is in E1, Lobby D. There is a Kenwood TS-520 HF radio connected to an 40 –10 meter antenna. 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. Brian, AB6UI, Station Manager )

**Club Newsletter:** If you have items that would be of interest to the club, any comments, letters, or items for sale or trade please email it to Dale, WB6MMQ W6HA\_Editor (at) W6HA.com. If anyone needs a club application, please contact Dale, WB6MMQ and one will be sent to you.

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

**Web Site:** <HTTP://W6HA.com> or <W6HA.com>

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The Hughes Amateur Radio Club is an ARRL affiliated club for FCC-licensed amateur radio operators and their family members. Membership is open to all Amateur Radio Operators and those who are aspiring Amateur Radio operators.

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