



The Transponder



The monthly newsletter of the Hughes Amateur Radio Club, W6HA
- An ARRL affiliated club -

February 15, 2019 Repeater 445.620 – PL 127.3 Web Site: <http://W6HA.com> Vol. XLVI, No. 2

Meeting Notice:

Where: El Segundo Library - Friends of the Library Conference Room
Location: 111 Mariposa Ave (near Main Street) , El Segundo, CA 90245

Date: Tuesday, February 19, 2019 3rd Tuesdays
Time: Gather, 11:45; Meeting: 12 to 1:00 PM

Featured Presentation:

Mesh Nets: Presentation & Demo
By Brian, AB6UI

Up Coming Events:

March 2 – Build & Skills Day, Sunrise room, MB Joslyn Center
June 21 – 23 – ARRL Field Day at Hopkin’s Wilderness Park in Redondo Beach

Nets on the Club’s Repeater:

Wednesday Evenings at 7:30 PM – Hughes ARC members net
Thursdays about Noon (12:05 PM) Raytheon Emergency Communication Team (ECT)
1st Mondays of the month (7:00 PM) – LAFD CERT

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Lunch: Pizza: 1 Large Veggi; 1 Lrg Pepperoni; 1 Lrg Special; 1 Lrg ½ sausage, ½ Hawaiian (\$3.50/slice)
Prices: 2 slices of Pizza w/salad, \$7.00; 1 slice of pizza w/salad \$5.00; Salad only \$4.00
Sodas: Coke, Coke Zero & Ginger Ale (\$1.00) - Water (50 cents)

Web Site: W6HA.com/w6ha

Club News:**HARC Meeting – Back to the Library****Technician Class**

Mike, N6MDV reports that the results of the Technician Class is fourteen newly Licensed Hams.

New Club Members in January 2019

In January the club gained eight (8) new club members as follows:

Mike, N6MHD; Walt, WB6TWV; Rick, KM6GXZ; Jerry, KI6RRD; Jeremy, KI6SUA; Mary, KM6ZJC; Jim, K6WLA; Larry, N2NY
Although I have not kept track, I believe that is the most new members we've gotten in a single month.

HNLB–Hughes Net Lunch Bunch - 2/5/19

Happy New Year. It's been a couple months since I last sent you a lunch report. We didn't meet in January because the 1st Tuesday was 1/1/19.

This month we had 7 attendees: N6AIN, N6IC, W6IVO, W1MII, W6RFI, N6VZF, and NY6Y.

Since I've waited 'til Saturday to send this out, I don't remember all the topics we covered, but the group, as usual, wasn't at a loss for words.

I've attached the most recent HNLB list. Please note: my email address has changed. Please update your address books, if you haven't already. I'm still getting some email at my old address, but they're going to shut down the "beachnet" domain soon.

N6VZF: vzfmii@vzfmii.net

Hope you're all doing well.
Betty, N6VZF

Ed.Note: The Hughes Net Lunch Bunchers (HNLBers) meet in Westchester, at the Coffee Co. La Tijera Blvd & Sepulveda East way, at 11:30 am. They've meet on the 1st Tuesday of the Month - since the mid 70s - 40 years!

Items For Sale:

The **Henry 2K Classic HF amp** is for sale or trade. \$800 Or offer. It is broadcast grade, meaning it has a large power supply and can be key down on RTTY at more than 1200 watts all day, or SSB at 1500 watts all day.

Neal, N6YFM
mobile 310-704-7416
email nealix@gmail.com

Contests for: February and March

The 2019 **ARRL International DX Contest** weekends are just ahead.

The CW event is February 16 - 17, while the phone (SSB) weekend is 2 weeks later, on March 2 - 3.

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

W/VE amateurs: Work as many DX stations in as many DXCC entities as possible on the 160, 80, 40, 20, 15, and 10 meter bands.

DX stations: Work as many W/VE stations in as many of the 48 contiguous states and provinces as possible.

More on Page 5, under 'In Brief'. All the details are at: <http://www.arrl.org/arrl-dx>

ARRL Letter – Excerpts of possible interest**WWV 100th Anniversary Special Event Operation in the Planning Stages**

It's a celebratory year for the WWV stations. The fiscal year (FY) 2019 budget -- once



signed -- will include full funding for the stations, which also mark their 100th year this fall. The [WWV Centennial Committee](#) has a tentative agreement with the National Institute of Standards and Technology ([NIST](#)) to mount a special event station this fall adjacent to the [WWV](#) site in Colorado to mark the 100th anniversary of the time and frequency standard station, the world's oldest continuously operating radio station. A memorandum of understanding is in the works.

Dave Swartz, W0DAS, of the Northern Colorado Amateur Radio Club ([NCARC](#)) heads the committee, which is developing plans for an NCARC special event from September 28 through October 2, with a NIST centennial observance tentatively set for October 1.

The NIST budget for WWV, WWVH, and WWVB will remain level for FY 2019. With the funding suspense over, Swartz told ARRL, "our committee is moving forward."



The WWV Building near Fort Collins, Colorado. [Photo courtesy of NIST]

Swartz and committee members Darren Kalmbach, KC0ZIE, and Kevin Utter, N7GES, met on February 8 with WWV/WWVB/WWVH Station Manager John Lowe, WWV Electronics Technician Glenn Nelson, and WWV Chief Engineer Matt Deutch, N0RGT.

"This was the first meeting for the committee and the first to include NIST upper management," said Swartz, who called the meeting "very productive." Swartz said NIST management is "on board" with the celebration, and Deutch plans to attend Hamvention May 17 - 19 to promote the centennial event.

Although the US government cannot fund any Amateur Radio special event expenses, the club members will be allowed to use a 15-acre parcel on WWV property, Swartz explained on the WWV Centennial website. "The operating site lies outside the security fence and simplifies logistics," he said.

Swartz hopes that other clubs in Colorado will be able to pitch in to make the WWV Centennial a success.

US Amateur Radio Population Grows Slightly in 2018

The US Amateur Radio population once again grew by about 1%, based upon 2017 and 2018 year-end FCC database statistics provided by Joe Speroni, AH0A. The 755,430 total licensees represent nearly 7,300 more license holders than those that were in the database at the end of 2017. Nearly 51% of the Amateur Radio population in the US -- 384,145 -- hold a Technician license. Generals are second with 175,949, and Amateur Extras number 147,369. Advanced and Novice licensee populations continue to decline, with

39,607 Advanced and 8,360 Novices, as the FCC no longer issues Advanced or Novice licenses. A more significant statistic is 31,576 new FCC licenses last year, although that's 620 fewer than came aboard in 2017.

"New amateur licenses granted by FCC are down 2% over last year," noted ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM, "but this is the fifth year in a row the total has been greater than 31,000. I predict that the number of new licensees will be more than 30,000 at the end of this year as well, and I'm optimistic this trend will continue."

Upgrades also are down slightly, compared to last year -- 9,456 in 2018 versus 9,576 in 2017, she added. "For the fifth year in a row, we have conducted more than 7,000 Amateur Radio exam sessions in a year -- an important milestone for the ARRL VEC," Somma recounted. "Our program continues to provide outstanding service to the ARRL, its members, and the entire Amateur Radio community."

ARRL VEC filed a total 30,393 license application forms last year, compared to 31,014 in 2017. That includes new, upgrade, modification, renewal, and club station filings. At 7,035 in 2018, the number of exam sessions conducted by ARRL VEC marginally trailed the 7,075 held in 2017. ARRL VEC served 34,493 exam applicants in 2018,



compared to 35,352 in 2017. Exam elements administered by ARRL decreased from 47,152 last year to 45,817 this year, Somma said. Nearly 1,800 new Volunteer Examiners (VEs) have been added to the ARRL VEC program.

Historic Schooner that Carried Ham Radio on Arctic Expeditions Undergoing Additional Restoration [repeated from Jan]

The nearly century-old schooner *Bowdoin*, built in 1921 and relaunched nearly 3 years ago, after some extensive renovation and refitting, is once again in dry dock to restore its hull. During explorer Donald B. MacMillan's Arctic Expedition of 1923 and on the MacMillan-McDonald-Byrd Expedition of 1925, the sailing vessel relied on Amateur Radio operators for communication. Built in East Boothbay, Maine, the *Bowdoin* has made more than two dozen visits to the Arctic under MacMillan's command. It was named after MacMillan's alma mater, Bowdoin College, and has become the official vessel of the state of Maine, a national historic landmark, and the [flagship](#) of the Maine Maritime Academy (MMA) Vessel Operations and Technology Program. Work on the vessel is currently under way at Boothbay Harbor.

"Our goal is to maintain the boat to the highest standard, to go above and beyond in order to preserve this living piece of history," MMA Marine Operations Manager Dana Willis said in a December [media release](#). One such preservation update has been supplementing *Bowdoin's* sails with a diesel engine.

In 1923, MacMillan had turned to ARRL for help in outfitting his expedition with better wireless gear, and, as Michael Marinaro, WN1M, explained in his June 2014 *QST* article, "[Polar Exploration](#)," that help "was enthusiastically provided." ARRL Co-Founder Hiram Percy Maxim and the ARRL Board agreed to furnish support and recruited Donald H. Mix, 1TS, of Bristol, Connecticut, to serve as the shipboard operator. Board member M.B. West custom-designed the equipment, which was built by radio amateurs at his firm, Zenith Electronics. The transmitter operated on medium-wave frequencies with a power of 100 W and used the call sign WNP -- for "Wireless North Pole."

As Marinaro explained in his article, "WNP transmitted weekly 500-word press releases and listings of stations worked and heard. Once received by amateur stations, these reports were delivered to local affiliated newspapers of the North American Newspaper Alliance; from there, they were distributed syndicate-wide by telegraph."

In 1925, the *Bowdoin* headed to Greenland. "The outstanding accomplishment of the expedition was in the sphere of radio," Marinaro wrote. "Utilizing shortwaves, the expedition was in consistent contact with the outside world throughout the journey, to the delight of the amateurs who were able to work them. The phenomenal success proved to the Navy that shortwaves were definitely superior to the long and ultra-long waves on which the fleets had been relying."

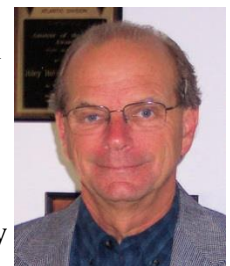


At Wiscasset, Maine, with the schooner *Bowdoin*, ARRL sponsors check out the receiver furnished by Zenith for the 1923 Arctic Expedition. From left to right: F.H. Schnell, 1MO, Traffic Manager; K.B. Warner, 9JT, Secretary-Manager, and Hiram Percy Maxim, 1AW, ARRL President.

The *Bowdoin* is expected to be seaworthy again for the summer sailing season, when it will serve once again in MMA sail training courses. -
- Thanks to Maine Maritime Academy.

Riley Hollingsworth, K4ZDH, to Oversee Volunteer Monitors Development and Implementation

Riley Hollingsworth, K4ZDH, will oversee the development and implementation phases of ARRL's new Volunteer Monitors (VM) program, which will replace the Official Observers (OO) program. Hollingsworth, who once handled Amateur Radio enforcement for the FCC, has stepped down as ARRL Atlantic Division Vice Director to avoid any appearance of a conflict of interest. The development phase of the program is already under way.



"I am grateful for the Atlantic Division ARRL members supporting me, but I think I can better serve the Atlantic Division and all ARRL divisions by working in the Volunteer Monitors program,"

Hollingsworth said in his resignation letter. A new Atlantic Division Vice Director will be appointed.

ARRL President Rick Roderick, K5UR, said that Hollingsworth was the ideal person to lead ARRL's efforts in the development and implementation of this joint program with the FCC.

"I support Riley's decision to concentrate his efforts on this very valuable project on behalf of the ARRL," Roderick said.

Approved by the ARRL Board of Directors last July, the Volunteer Monitors will work in cooperation with the FCC. Volunteers trained and vetted by ARRL will monitor the amateur bands for possible instances of misconduct or to recognize exemplary on-air operation. Cases of flagrant violations or noncompliance will be directed to the FCC for action, in accordance with FCC guidelines. The program, which aims to re-energize Amateur Radio enforcement efforts, was proposed by the FCC following the closure of several FCC regional offices and reductions in field staff.

Hollingsworth has identified three phases to the program -- development, solicitation and training, and implementation. The development phase will include drafting a mission statement, clearly defining ARRL's and the FCC's requirements and needs as part of the program, drafting a Volunteer Manager job description, and developing a training manual for volunteers.

The solicitation and training phase will involve identifying the geographical locations where volunteer monitors will be most needed, soliciting applications, and screening applicants. Current Official Observers will be invited to apply for appointment as Volunteer Monitors (VMs). The ARRL Board has expressed its appreciation to the OOs for their dedicated volunteer service over the years.

Implementation will involve having the volunteers provide field reports, and ARRL staff offering guidance to volunteers to ensure that the information gathered meets FCC requirements. Continuing education will be provided to the volunteers as part of the program.

Hollingsworth has committed to ensure training adequacy for new VMs, to review the quality and utility of Volunteer Monitor submissions to the FCC for enforcement action, and to advocate for

rapid disposition of cases appropriately submitted to the FCC.

ARRL officials estimate that it will take 9 - 12 months before the first Volunteer Monitors begin filing reports.

Es'hail-2 (QO-100) Opened for Amateur Radio Use

The Es'hail-2 narrowband transponder went live a couple of days early and now is open for Amateur Radio. Thursday, February 14, was Teleport Inauguration Day in Qatar, celebrating the opening of the new Es'hailSat teleport and the "official" opening of Es'hail-2, which carries the first geostationary Amateur Radio payload, a German P4A package.

Es'hail-2 launched last November from Cape Canaveral. The two Amateur Radio transponders



onboard what's now known as Qatar OSCAR 100 (QO-100) became available on February 12 for general operation by stations within QO-100's footprint. Emceeding the opening ceremony was Qatar's former Deputy Prime Minister Abdullah bin Hamad al-Attiya, A71AU, who chairs the Qatar Amateur Radio Society (QARS) and is a satellite patron.

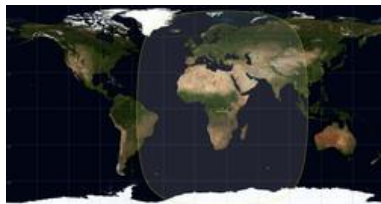
A delegation from Germany -- AMSAT-DL President Peter Guelzow, DB2OS; Achim Vollhardt, DH2VA, and Thomas Kleffel, DG5NGI, of the P4A team -- went to Qatar to set up and commission the ground segment of P4A, which includes a club station that will operate under the auspices of QARS as A71A.

An AMSAT-DL ground station at the Bochum Observatory in Germany has been set up for QO-100, and operation via the satellite will be carried out using the call sign DL50AMSAT, recognizing AMSAT's 50th anniversary.

The satellite transponder offers a 250-kHz passband for modes such as SSB, FreeDV, CW, RTTY, and other modes, plus an 8-MHz wideband downlink for digital amateur TV (DATV) modes.

Downlink frequencies are at 10 GHz. The uplink frequency is at 2.4 GHz.

Stations located outside of the QO-100 footprint or lacking 10 GHz receive capability can monitor the proceeding using online WebSDR resources. In cooperation with AMSAT-DL, the British Amateur Television Club



The approximate footprint of Es'hail-2.

will operate a WebSDR for the narrowband segment, and a spectrum viewer for the wideband (DATV) segment. The satellite is in geostationary orbit at 25.9° E. Read [more](#). -- Thanks to AMSAT News Service via AMSAT-DL

[In Brief..](#)

The 2019 [ARRL International DX Contest](#) weekends are just ahead.

The CW event is February 16 - 17, while the phone (SSB) weekend is 2 weeks later, on March 2 - 3. Even if you or your station are not competitive, DX-oriented operating events such as these offer the possibility of putting some new DXCC entities into the log, upping your operating skills, or just getting a feel for how well your station and antennas fare on busy bands. US and Canadian operators work as many DX stations in as many DXCC entities as possible on 160, 80, 40, 20, 15, and 10 meters. DX stations work as many US and Canadian stations in as many of the 48 contiguous states and provinces as possible. US and Canadian stations send a signal report and the state or province, while DX stations send a signal report and the power output. On CW, many stations will send "cut numbers" -- abbreviations that can confuse contesting newcomers. For example, the letter A = 1, N = 9, and T = 0. So, log "5NN ATT" as "599 100 W." Also listen for "1K" or "K" to indicate 1,000 W.



FEMA Region 10 will conduct monthly communications exercises (COMMEX) on the third Wednesday of each month, starting

on February 20, 1730 - 1900 UTC. [Repeated from Jan. Updated for Feb-ed]

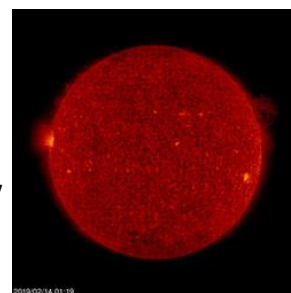
Amateur Radio operators are invited to take part. The intent of these exercises is to test and exercise interoperable communication (federal/state/local/tribal/Amateur Radio) during a major disaster in which the communication infrastructure is significantly damaged or destroyed. FEMA Region 10 will use the call sign WGY910. Other stations associated with agencies and organizations that provide response support in accordance with the National Response Framework are encouraged to participate. The COMMEX will use these "dial" or "window" frequencies on 60 meters -- including 5,330.5 kHz, 5,346.5 kHz, 5,357.0 kHz, 5,371.5 kHz, and 5,403.5 kHz -- as part of the exercise. The area of operation is the continental US.

The latest General-class Question Pool, effective July 1, has been released.

The National Conference of Volunteer Examiner Coordinators ([NCVEC](#)) Question Pool Committee has released the 2019 - 2023 FCC Element 3 General Class Question Pool into the public domain. The 2019 - 2023 General Class (Element 3) Question Pool is available in [Word](#), [ASCII text](#), and [PDF](#) versions. The new Question Pool is effective for Element 3 exams administered on or after July 1, 2019. On January 6, the Question Pool Committee also released a revised diagram Figure G7-1 ([PDF](#)) ([JPG](#)), as part of the new Element 3 Question Pool. -- Thanks to NCVEC Question Pool Committee

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Another week with no sunspots. As of February 13, it's been 3 weeks since any sunspots were observed -- on January 30. February 7 - 13 saw average daily solar flux decline from 71.1 to 70.4. Geomagnetic indices were lower, with average daily planetary A index declining from 11.6 to 8.1, and average mid-latitude A index going from 8 to 6.1. Lower geomagnetic activity is generally good for HF propagation.



Predicted solar flux over the next 45 days is 70 on February 14 - 20; 72 on February 21 - 25; 71 on

February 26 - March 9; 70 and 71 on March 10 - 11; 72 on March 12 - 24, and 71 on March 25 - 30.

Predicted planetary A index is 12 and 8 on February 14 - 15; 5 on February 16 - 18; 12, 20, 12, and 8 on February 19 - 22; 5 on February 23 - 26; 12, 15, 15, and 10 on February 27 - March 2; 5 on March 3 - 4; 8, 5, 8, 10, 8, and 5 on March 5 - 10; 8 on March 11 - 12; 5 on March 13 - 17; 12, 20, 12, and 8 on March 18 - 21; 5 on March 22 - 25; 12 on March 26; 15 on March 27 - 28, and 10 and 5 on March 29 - 30.

The prediction of solar flux always at 70 or higher over the next 45 days is a positive sign for HF, plus the spring equinox returns on March 20, indicating gradually improving HF propagation.

Sunspot numbers for February 7 through 13, 2019 were 0, 0, 0, 0, 0, 0, and 0, with a mean of 0. The 10.7-centimeter flux was 70.2, 71.8, 70.3, 70, 69.9, 70.2, and 70.4, with a mean of 70.4. Estimated planetary A indices were 4, 9, 10, 6, 9, 6, and 13, with a mean of 8.1. Est'ed mid-latitude A indices were 3, 7, 6, 4, 7, 5, & 11, with a mean of 6.1.

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. [Monthly charts](#) offer propagation projections between the US and a dozen DX locations.

[Share](#) your reports and observations.

Just Ahead in Radiosports

Feb. 16 -- AWA Amplitude Modulation QSO Party

Feb. 16 -- SARL Youth Day Sprint (Phone)

Feb. 16 -- Feld Hell Sprint

Feb. 16-17 - ARRL International DX Cntst(CW)

Feb. 16 - 17 -- Russian PSK World Wide Contest

Feb. 18 -- Run for the Bacon QRP Contest (CW)

Feb. 20 -- AGCW Semi-Automatic Key (CW)

Mar. 2-3 - ARRL International DX Cntst (SSB)

All dates and times, unless otherwise stated, are UTC. See the [ARRL Contest Update](#), [WA7BNM Contest Calendar](#) and the [ARRL Contest Calendar](#) for more information.

ARRL Section, State and Division Conventions / Hamfest in the West or near members:

Feb. 22 - 23 -- [TECHCON Conference](#), Tampa, FL

Feb. 23 - [New Mexico TechFest](#), Albuquerque

March 1 - 2 -- [Alabama Section Convention](#), Trussville, AL

Apr 12 - International DX Convention
Visalia, Ca

May 31, 2019 SEA-PAC Seaside Oregon

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

Registration has opened for the 70th meeting of the International DX Convention (IDXC).

The gathering will take place April 12 - 14 at the Visalia Convention Center. The convention will include Contest Academy training, seminars, keynote presentations, contest and DX forums, and dinners. DXCC QSL card checking will be available. Some three dozen exhibitors will attend. More than 700 avid DXers and contesters looking to improve their skills and reconnect with their peers are expected to attend. -- *Thanks to John Miller, K6MM, and Rich Seifert, KE1B*

Selected DX News (QRV = Ready! or Are you Ready?)

ARLD007 DX news

This week's bulletin was made possible with information provided by CO3JK, EA4NF, W1UE, The Daily DX, The OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM websites. Thanks to all.

GREENLAND, OX. Nils, SM3UQK will be QRV as OX/SE3A from Ilulissat from **Feb. 9 to 21**.

Activity will be on 40 and 20 meters as a portable station. QSL #1

MACAO, XX9. A large group of operators will be QRV as XX9D from **February 11 to 26**. Activity will be on 160 to 6 meters using CW, SSB, RTTY and FT8. QSL via DL4SVA.

EL SALVADOR, YS. Will, AA4NC will be QRV as YS1/AA4NC from San Salvador from **Feb. 13 to 20**. Activity will be all HF bands using CW, SSB, RTTY and possibly FT8. This includes being an entry in the upcoming ARRL International DX CW contest as Single Op/All Band entry. QSL #1

MONACO, 3A. Philippe, EA4NF is QRV as 3A/EA4NF until **February 18**. Activity is on 20 meters, and mainly on various FM and SSB satellites. QSL #4

BURUNDI, 9U. Shabu, M0KRI is QRV as 9U4RI until **February 25**. Activity is on 40 to 10 meters using CW, SSB and PSK31. QSL #1

TAIWAN, BV. Yosuke, JJ1DQR will be QRV as BW/JJ1DQR from Taipei, IOTA AS-020, until **February 19**. Activity is on HF bands. QSL#1

THE GAMBIA, C5. Alan, G4DJX will be QRV as C5DX from **February 16 to 23** while here with a group of students. Activity will be in his spare time on 40 to 10 meters using only CW.

QSL#1CUBA, CO. Members of the Group CW of Cuba will be QRV as CO9AAA from Pinar del Rio in the ARRL International DX CW contest. QSL via CM1WM.

CAPE VERDE, D4. Philip, HB9HFD will be QRV as D44TAQ from Sao Vicente, IOTA AF-086, from **February 17 to 22**. Activity will be on 40 to 10 meters using various digital modes. QSL via LoTW.

CEUTA AND MELILLA, EA9. Jorge, EA9LZ will be QRV as EF9Z from Ceuta during the ARRL International DX CW contest as a Single Op entry. QSL via LoTW.

HONDURAS, HR. Dennis, W1UE is QRV as either HQ9X or W1UE/HR9 from Roatan Island, IOTA NA-057, until **February 26**. He will be active as HQ9X in the ARRL International DX CW contest and the upcoming CQ World Wide 160 Meter SSB contest. Activity includes being on 160 and 80 meters during his evening hours, as well as 60 meters. QSL via KQ1F.

OGASAWARA, JD1. Nobu, JA0JHQ is QRV as JD1BOW from Chichijima, IOTA AS-031, until **February 18**, with a focus on the ARRL International DX CW contest. QSL #1

SABA, ST. EUSTATIUS, PJ5. Operators K4UEE, K5AC, NM1Y and WC4X are QRV as PJ6/home calls from Jolieville, Saba Island, IOTA NA-145, until **February 18**. Activity is on 160 to 10 meters using CW, SSB, RTTY and possibly FT8. They will be active as PJ6A in the ARRL International DX CW contest as a Multi Single/Low Power entry. QSL to home calls, and PJ6A via N4NX.

FERNANDO DE NORONHA, PY0F. A group of operators are QRV as PY0F until **February 18**. Activity is mainly on the low bands using CW, SSB and FT8. This includes the ARRL International DX CW contest. QSL direct to PY7RP.

CENTRAL KIRIBATI, T31. A group of operators will be QRV as T31EU from Kanton Island, IOTA OC-043, from **February 16 to March 5**. Activity will be on 160 to 10 meters using CW, SSB & digital modes with 3 stations. QSL via DL2AWG.

VIET NAM, XV. Andy, DL3YM plans to be QRV as XV9YM from Ho Chi Minh City from **Feb. 16 to Mar. 18**. Activity will be in his spare time on 40 to 10 meters using only CW. QSL#1

NEW ZEALAND, ZL. Jacky, ZL3CW will be QRV as ZM1A from Tauranga in the ARRL International DX CW contest as a Single Op entry. QSL #1

SOUTH AFRICA, ZS. Uli, DM5EE plans to be QRV as ZR2A from Port Elizabeth in the ARRL International DX CW contest as a Single Op/All Band entry. QSL #1

FRANCE, F. Special event station TM16AAW will be QRV from **February 10 to 24** from Macon during the 16th Antarctic Activity Week. Activity will be on 40 to 10 meters using mostly SSB. QSL via F8DVD.

MADAGASCAR, 5R. Eric, F6ICX will be QRV as 5R8IC from Sainte MarieIs land, IOTA AF-090, **from November 5 to February 2019**. Activity will be holiday style on the HF bands using CW, SSB, some RTTY, and PSK. QSL #1

Long Term: (longer than 1 month)

GUADELOUPE, FG. Jean-Pierre, F6ITD will be QRV as FG/F6ITD from La Desirade Island, IOTA NA-102, from **January 14 to March 13**. Activity will be on 80 to 6 meters using CW, SSB and various digital modes. He will also be active as TO7D in various contests. QSL #1

THE GAMBIA, C5. Andre, ON7YK is QRV as C5YK until **Mar 9, 2019** on 60 to 10M using FT8, with some CW & SSB. QSL#1 after Mar 15, 2019.

GABON, TR. Roland, F8EN will be QRV as TR8CR until **March, 2019**. Activity will be on 40 to 17M, and possibly 80M, using CW & SB. QSL

THAILAND, HS. Lars, SM6NT is QRV as HS0ZME **until April 9**. Activity is on the HF bands. QSL #1.

SOUTH SUDAN, Z8. Diya, YI1DZ is here [**until end of May 2019-ed**] and will be QRV as Z81D. Activity is on 80 to 10M using SSB and digital modes in his spare time. QSL via OM3JW.

SWEDEN, SM. Members of National Association of the Active Seeing Impaired club station SK5CG are QRV with special event station SF50CG during **all of 2019** in celebration of their 50th anniversary. QSL via SM0BYD.

ANTARCTICA

[Summer Season November – April]

FRANCE, F. Special event station TM16AAW will be QRV **from February 10 to 24** from Macon during the 16th Antarctic Activity Week. Activity will be on 40 to 10 meters using mostly SSB. QSL via F8DVD.

ANTARCTICA. Felix, DL5XL is QRV as DP1POL from station Neumayer III, **IOTA AN-016, until the end of February 2019**. Activity is on the HF bands using mostly CW and digital modes. QSL via DL1ZBO.

ANTARCTICA. Adam, ZL4ASC is QRV as ZL5A from Scott Base, Ross Island, **IOTA AN-011, during the 2018/2019 season** while on work assignment. Activity is in his spare time. [**Until April 2019 - ed**] QSL #2

ANTARCTICA. Danilo, IZ1KHY is QRV as IA0/IZ1KHY until the **end of Feb. 2019** while involved in several scientific & research projects at some of the remote camps. QSL #1

FEDERAL REPUBLIC OF GERMANY, DA. Special event station DM775FLD is QRV **during all of 2019** to celebrate the founding of the town of Friedland 775 years ago. QSL #3

DEMOCRATIC REPUBLIC OF CONGO, 9Q. Fernando, EA4BB is QRV as 9Q6BB from Kinshasa until [**May 2019-ed**] QSL#2

UGANDA, 5X. Kazuo, 5X2B is QRV from Kampala to **July 2019** using 30 to 12 M using CW, SSB and RTTY. QSL direct to JA1PBV.

IoTA (Islands on The Air) - 2019

MACQUARIE ISLAND VK0. Norbert, VK5MQ is QRV as VK0AI and will be here with the next winter team for one year. [**until April 2019 - ed**] Activity has been on 30 and 20 meters using FT8 between 0400 to 0630z. QSL #1

Until 2020

RWANDA, 9X. Alan, KE4TA will be QRV as 9X0TA from Kimihurura, Kigali [**until Aug. 5, 2020-ed**]. Activity will be holiday style on the HF bands. He is currently active on 20 and 17M using SSB, CW and digital modes. QSL via N4GNR.

Notes:

1. QSL direct to home call.
2. QSL via operators' instructions.
3. QSL via bureau
4. QSL via LoTW

Possible HARC Special Event 2022 – 75 Years

In November of 2022 it will have been 75 years since the Flight of the H – 1, Hughes' Flying Boat, aka the 'Spruce Goose', better, would have been, the 'Birch Boat' Since it was made almost entirely out of Birch wood.

Lunch Financials – for December 2018:

Attendance: 23

Starting Lunch Kitty:	\$175.75
Expenses: Pizza(4) & Salad	\$102.00
Drinks: Soda: 12 @ 0.31	\$3.75
<u>Water 1 @ 0.25</u>	<u>\$0.25</u>
Food Total:	\$106.00 \$69.75
Income: Lunch:	\$123.50 \$193.25
<u>Room Rent-To General Funds: \$0.00</u>	<u>\$193.25</u>
Starting - Kitty for Jan. 2019 Mtg.:	\$193.25
[Gain of \$17.50 - \$20.00 for room rent = Loss of \$2.50]	

Lunch Financials – for January 2019:

Attendance: 26

Starting Lunch Kitty:	\$193.25
Expenses: Pizza(4) & Salad	\$105.00
Drinks: Soda: 13 @ 0.31	\$4.00
<u>Water 1 @ 0.25</u>	<u>\$0.25</u>
Food Total:	\$109.25 \$84.00
Income: Lunch:	\$112.50 \$196.50
<u>Room Rent-To General Funds: \$0.00</u>	<u>\$196.50</u>
Starting - Kitty for Feb. Mtg.:	\$196.50
[Gain of \$3.25 - \$20.00 for room rent = Loss of \$16.75]	

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)

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 Exam Practice 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 or 310-544-2917

LAX SEC : JIM STOKER AG6EF

4555 ENCINAS DR

LA CANADA FLINTRIDGE CA 9101

818 790 2832

LAX Section Traffic Mngr: Kate Hutton, K6HTN

For Radiogram formatting instructions go to

www.ARRLAX.org .

RF Safety – Power Density Web site:

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 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, WA6NQQ, 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 (Current 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
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
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

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 and 15 WPM

CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 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:

1 PM PST Thur Feb 21 (2100 UTC) – on CW Frequencies listed above, 10 to 35 WPM

7 PM PST Fri Mar 1 (0300 UTC Mar 2)

4 PM PDT Wed Mar 13 (2300 UTC)

West Coast Qualifying Runs:

9 PM PST Wed Feb 27 (0500 UTC Feb 28) by K9JM on 3590 & 7047.5 kHz, 10 to 35 wpm

2 PM PDT Sat Mar 23 (2100 UTC) by K6KPH on 3581.5, 7047.5, 14047.5, 18097.5 & 21067.5 kHz 10-35 wpm

Earn your Code Proficiency certificate by legibly copying 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.

The Straight Key Century Club (SKCC):

http://www.skccgroup.com/member_services/beginners_corner/

SKCC Beginner's Corner (Headings from the above Web site)

Monthly Straight Key Night (SKN) is on the 1st of each month. It is *not* a contest. No logs are submitted.

The event, was inspired by the ARRL's annual SKN. The SKCC's founders wanted to have SKN monthly. The tradition continues!

The Elmer frequency for beginning operators is **7114 KHz**. It's a safe haven for CW new-comers. Elmers are encouraged to monitor the frequency and work the CW beginners, some of whom may have had a license for many years.

2018 – 2019 CLUB OFFICERS**Elected Officers:**

PRESIDENT: Mike, N6MDV W6HA_President at W6HA.com
VICE PRESIDENT: Raul, KM6NRL W6HA_VicePresident at W6HA.com
SECRETARY: Judi, KI6TKT W6HA at W6HA.com
TREASURER: Paul, KK6TAC W6HA_Treasurer at W6HA.com
STATION MANAGER: Brian, AB6UI W6HA_StationMgr at W6HA.com
PAST PRESIDENT: Dale, WB6MMQ W6HA at W6HA.com

Committees:

NEWSLETTER EDITOR: Dale, WB6MMQ, W6HA_Editor at W6HA.com
WEB MASTER: Mike, N6MDV W6HA at W6HA.com
MEMBERSHIP: DALE, WB6MMQ W6HA at W6HA.com
SCRRBA REP: Ray, WA6NVL WA6NVL at ARRL.net
FIELD DAY : TBD for 2019 W6HA at W6HA.com
MEMBERSHIP: Dale, WB6MMQ W6HA at W6HA.com
YAHOO GROUPS MOD: Richard KM6FP
CLASS MODERATOR: Mike, N6MDV W6HA_Class at W6HA.com
RAYTHEON SAS ECT: Ken, KI6YDN, KSIMP1022 at AOL.com
CLUB REPEATER: W6HA/R 445.620 MHz (-) PL 127.3 Hz Location: Bldg. R1 roof
Packet (node :hughes) 145.61s W6HA

YAHOO GROUPS: <http://groups.yahoo.com/w6ha>.

HARC Repeater Nets: Wednesdays, 7:30 PM (0200 UTC Thursdays) (Just Started Sept. 2018)
Thursdays, 12:05PM (1900 UTC) RTN ECT – All are welcome
LAFD CERT Net: 1st Monday of the month, 7:00 PM (0200 UTC Tuesday)

HAC HF NET: HARC & Retired 14.233 Mhz, Tuesdays, 13:00 PDT – Currently Inactive

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**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 at W6HA.com. If anyone needs a club application, please contact Paul, KK6TAC or 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](http://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 consists of former, or retired employees of the Hughes Aircraft Company, Boeing and Raytheon companies in El Segundo. Membership is open to all Amateur Radio Operators and those who are aspiring Amateur Radio operators.

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