



The Transponder



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

December 14, 2018 Repeater 445.620 – PL 127.3 Web Site: <http://W6HA.com> Vol. XLV, No. 12

Meeting Notice:

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

Date: Tuesday, December 18, 2018 3rd Tuesdays
Time: Gather, 11:45; Meeting: 12 to 1:00 PM

Featured Presentation:

Ham Tips and Hints
by various members

Up Coming Events:

January 12 & 19 Technician Licensing Class
January 20 ARRL VHF contest – HTs OK
February 2nd Sean O’Brien 50/50 ? (likely cancelled or moved)
March – Skills Day, Tentative

Nets on the Club’s Repeater:

Wednesday Evenings at 7:00 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

Inside:	page
Club News	2
Items For Sale	2
ARRL Letter – excerpts of possible interest	2
K7RA Solar Update	5
Just Ahead in Radio Sport	5
ARRL Contest Update – Excerpts	2
Select DX News	6
Amateur Radio Licensing Exams & LAX Section officers ---	9
WIAW Schedule – Qualifying Runs & SKCC info	10
Club Officers & Info	11

Dinner: Pizza: 1 Large Veggi; 1Lrg Pepperoni; 1Lrg Tower Spcl; 1Lrg ½ sausage, ½ Hawaiian (\$3.00 per slice)
Prices 2 slices of pizza w/salad, \$7.00; 1 slice of pizza w/salad \$5; Salad only \$4.00
Sodas: Coke, Coke Zero, Ginger Ale & 7up (\$1.00) - Water (50 cents)

Web Site: W6HA.com/w6ha

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

Club News:**Presidents Corner**

Hi,

The topic suggested for this month is Ham tips and hints that each of you have and would like to share with others.

Please think about some insight you might have, something you learned, something you think may be of use to another Ham and be prepared to tell and show at the meeting.

For example: Richard suggested he might show how to coil coax cables. I have a thought on how to raise a 40 foot antenna pole single handedly.

If you can, send me a note about what you would like to share and I'll put together a tentative agenda. Plan on something from 5 to a max of 10 minutes per item so we can get a bunch in the meeting.

If you want to show a slide or power point, please email it to me before the meeting (my computer doesn't accept thumb drives for security reasons). Also, please bring any props or items to show and tell with to make the idea come alive.

I'm looking forward to hearing some great ideas! See you next Tuesday. If you have any questions, please let me know.

And, ... I am looking forward to emails regarding what you want to share.

Thanks, Mike, N6MDV

HARC Meeting Moved in January, 2019

Next month, due to remodeling and construction at the library, the Tuesday, January 15th Regular Noon meeting will be at the Joslin Center, 339 Sheldon St., El Segundo.

HNLB-Hughes Net Lunch Bunch, 12/4

Merry December to all.

We had six regulars at our December lunch, plus one guest. Al, W6IVO, brought Paul, K6SFQ, to join us.

We had the usual wide variety of QRM along with our good eats. Two things you should note:

1. For those who didn't get my earlier email, my email address is now vzfmii@vzfmii.net because our provider is ending the use of the beachnet

domain.

2. There will **NOT** be a lunch gathering in January because it's New Year's Day.

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

ARRL 10 Meter Contest

Comments from Dan, K7SS, operating in the [ARRL 10-Meter Contest](#) from Seattle: "Loud GA/LA opening. At least one op in California had a 190 hour into W8/W9, then poof!"

From Bob, W7YAQ:"Sounded like the Florida QSO Party from here in Oregon."

Also, see Tad Cook's 'The K7RA Solar Update' Below. Kicking myself. I did not get my 10 meter antenna back up – Also running late with Christmas lights – Dale, WB6MMQ

Contests for January

Jan. 20 -- ARRL VHF Contest – HTs OK

ARRL Letter – Excerpts of possible interest**First FT8 Roundup is a Huge Hit**

The first FT8 Roundup over the December 1 - 2 weekend [attracted](#) some 1,300 logs from those taking advantage of the ever-more-popular

digital protocol. This, despite its having been announced on fairly short notice and with other events such as the ARRL 160-Meter Contest on the same weekend. More than 400 of the logs were from US radio amateurs in the 48 contiguous



states, plus the District of Columbia. Overall, some 131,200 contacts were recorded. Participants from 91 countries submitted logs, testifying to the fact that FT8 is not just a US phenomenon.

"The FT8 Roundup was the last shakedown for the *WSJT-X* 2.0-rc5 beta software," said well-known RTTY contesting enthusiast and expert Don Hill, AA5AU, an FT8 cosponsor with Ed Muns, W0YK. "It performed with no major complications." The general availability release of [WSJT-X 2.0](#) is now out, and it's not backward compatible with *WSJT-X* 1.9 or earlier versions. Developer Joe Taylor, K1JT, has

urged users to upgrade by January 1 to what now is the new world standard. Muns, who's *NCJ* "Digital Contesting" contributing editor, said FT8 Roundup participation compared favorably with that for the ARRL RTTY Roundup, which has averaged around 1,700 logs in recent years.

"Don and I expected the contest to be popular," Muns said, "but the participation far exceeded our expectations. I think it bodes well for future FT8 contesting. Don and I are pretty bullish about continuing the FT8 Roundup on the first full weekend of December each year." Nonetheless, Muns said he doesn't see FT8 to "really take off" and



Don Hill, AA5AU, and second op Sophie (SK).

displace RTTY until the contact rate can be significantly increased through parallel QSO techniques.

Hill agreed on the event's popularity. "I have to say it was a huge success," he said. "Ed and I never dreamed it would be this

popular. It didn't make sense to continue the Ten-Meter RTTY Contest during this part of the sunspot cycle. Replacing it with an all-FT8 HF contest was the logical choice." Hill and Muns have cosponsored the Ten-Meter RTTY Contest.

Hill said final results of the inaugural FT8 Roundup should be out in a few days. "After the New Year, we hope to have downloadable online certificates available to all participants. We will definitely do it again next year," he said.

The 2019 [ARRL RTTY Roundup](#) will permit the use of FT8.

Next: The 2019 *QST* Key Design Competition

Hams have been building their own Morse keys since the dawn of Amateur Radio, and some creations have become legend. In 2019, *QST* is inviting participants to submit their best Morse key/paddle designs in the *QST* Key Competition. Design styles can include straight key, semiautomatic key (bug), paddle, or sideswiper. The winner in each category will receive \$250. Only one entry may be accepted per person or team, and the deadline to submit is June 1, 2019.

Entries must include the actual key (it will be returned following judging), as well as detailed drawings, photos, and a written narrative. Winners will be chosen based on ingenuity of design, ergonomics of operation, and overall craftsmanship. The judges' decisions are final.



A straight key originally designed and built by Hiram Percy Maxim, W1AW, ARRL's first president and cofounder. The key was provided courtesy of the Antique Wireless Association.

The key must be an independent mechanical device, not an integral part of another device, such as an electronic keyer. Keys must be the sole creations of the entrants and not available for sale.

Complete details and entry requirements will appear in the January 2019 edition of *QST*. The digital edition will go live on Friday, December 7, 2018.

JOTA Reports 36% Growth in Scout Participation for 2018

Scouting's Jamboree on the Air (JOTA) 2018 [reports](#) that total Scout participation in the annual fall event jumped by 36% from 2017. Each year, more than 1 million Scouts and Guides get together over the



airwaves for JOTA, which takes place on the third weekend of October. Since the first JOTA in 1958, millions of Scouts have become acquainted via Amateur Radio, and contacts sometimes result in relationships that extend for many years.

This year, 10,703 Scouts took part in the event, compared with 7,872 last year. Participating Amateur Radio operators topped 1,000 for the first time since 2016. At 610, the number of registered JOTA locations was way up, as was the number of JOTA stations registered, with 314. Participating JOTA stations reported contacts with stations in 99 countries, also up over 2017.

JOTA Coordinator Jim Wilson, K5ND, said he was pleased with this year's numbers and hopes that 2019's event will show a continued increase, despite a lack of sunspots.

"Looking over the numbers, a big part of the increase in JOTA Scout participation came from the World JOTA-JOTI (Jamboree on the Internet) Team's registration and reporting system," Wilson told ARRL. "We had 233 stations report results on the US system, which is comparable to last year's 226. In addition to that, 90 stations reported their results on the World system. After eliminating duplicates, this added 33 to our total of 266 station reports. That, chiefly, accounts for the increase in total Scout participation. In summary, perhaps this nice increase is due primarily to more accurate reporting."



Special Event station K4S in Jasper, Tennessee, where members of Scout Troop 5 and Cub Scout Pack 3005 participated in JOTA. [Photo courtesy of Radio Scouting]

Wilson said he's also looking forward to the final tally on US participation in JOTI. "Location registration in the US jumped from 274 last year to 610 this year," he said. "Several Amateur Radio operations reported using JOTI

chat and Skype to greatly improve their ability to generate Scout-to-Scout conversations between the US and the rest of the world. Of course, VoIP modes like D-STAR, DMR, and EchoLink also helped in our solar minimum."

World JOTA-JOTI numbers are not expected until early 2019, as each country reports its results by

mid-December followed by number crunching and compiling of the report, Wilson explained.

"Thanks to everyone who set up a JOTA station and helped Scouts experience the technology, fun, and magic of Amateur Radio. Let's do it again next year," he concluded.

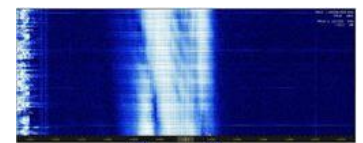
Several NASA Amateur Radio clubs will mark the 50th anniversary of Apollo 8 on December 21 - 27, concluding the year-long [NASA on the Air](#) activity.

Celebrating its 60th anniversary this year, NASA was created in 1958 through an act signed by President Dwight Eisenhower. Apollo 8 was launched on December 21, 1968, and splashed down 6 days later on December 27. It was the first manned spacecraft to leave low-Earth orbit, orbit the moon, and return safely. Special event operation will be on various bands and modes, and participating stations will self-spot on the DX cluster as well as via Facebook and Twitter. [Contact](#) Rob Suggs, KB5EZ, at NASA's Marshall Space Flight Center for more information.



Broadcasters Intruding on Exclusive Amateur Radio Frequencies

The International Amateur Radio Union Region 1 ([IARU-R1](#)) Monitoring System (IARUMS) reports that Radio Hargeisa in Somaliland has returned to 7,120 kHz after a break of several weeks, while Radio Eritrea has been reported on 7,140 and 7,180 kHz. Radio Sudan has been transmitting on 7,205 kHz with excessive splatter, IARUMS said. German telecommunications authorities have filed official complaints.



The signal of a Russian over-the-horizon radio on 20 meters. [Photo courtesy of Wolf Hadel, DK2OM]

IARUMS has also reported digital signals attributed to the Israeli Navy on 7,107 and 7,150 kHz. In addition, a Russian military F1B signal was observed in mid-November on 7,179 kHz. A

Russian over-the-horizon radar has returned to 20 meters on 14,335 - 14,348 kHz. It was monitored on November 22.

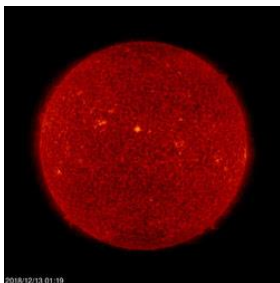
Earlier this fall, IARUMS reported digital signals from the Polish military daily on 7,001.8 kHz where Amateur Radio has a worldwide primary allocation. Telecommunications officials in Germany filed a complaint.

IARUMS has received reports of short "beeps" exactly 1 second apart, as well as frequency hopping between 10,108 and 10,115 kHz and 18,834 and 18,899 kHz. The signals are believed to emanate from a site near Chicago associated with an FCC-licensed experimental operation involved with low-latency exchange trading on HF (see "[Experiments Look to Leverage Low-Latency HF to Shave Microseconds off Trade Times](#)"). Although Amateur Radio is secondary on 30 and 17 meters, Experimental licenses may not interfere with Amateur Radio operations.

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Our recent reporting week (December 6 - 12) had sunspots on 5 of the 7 days, with an average daily sunspot number of 9.7 -- up from 2.3 from the previous 7 days. The average daily solar flux rose from 68.9 to 70.7. Geomagnetic indices were moderate, with the average daily planetary A index increasing from 7 to 8, and the mid-latitude A index rising from 4.9 to 6.4.

The predicted solar flux over the next 45 days is 70 on December 13 - 20; 68 on December 21 - 22; 70 on December 23 - January 4; 68 on January 5 - 18, and 70 on January 19 - 26.



The predicted planetary A index is 5 on December 13 - 27; then 8, 12, 10, and 8 on December 28 - 31; 5 on January 1 - 2; 10 on January 3 - 4; 8 on January 5 - 6; 5 on January 7; 8 on January 8 - 9; 5 on January 10 - 12; 8 on January 13 - 14; 5 on January 15 - 23, and 8, 12, and 10 on Jan. 24 - 26.

On December 11, NOJK reported from Kansas on the ARRL 10 Meter Contest:

"Much better conditions this year than last. On Saturday afternoon, had E-skip to W4 and W5,

which allowed links on to F₂/TEP propagation to South America. Running just 5 W, I logged CE, CX, LU, and PY stations via E_s link. Double hop E_s to HK, P4 and PJ2. Single hop E_s to W4 and W5.

"Sunday the band conditions not nearly as good, but I see the northeast states had strong E_s to Florida. This in turn allowed them to link on to South America. Also strong single-hop E_s along west coast.

"Had some weak E_s in Kansas, heard CO8RH, but he faded out while I was fiddling with my hand key. I was able to work 9Z4Y on 10-meter CW."

Sunspot numbers for December 6 - 12 were 17, 16, 12, 12, 0, 11, and 0, with a mean of 9.7. The 10.7 centimeter flux was 69.7, 70.1, 70.5, 71.6, 71, 71, and 70.8, with a mean of 70.7. Estimated planetary A indices were 5, 10, 10, 9, 11, 7, and 4, with a mean of 8. Estimated mid-latitude A indices were 3, 8, 10, 6, 8, 7, and 3, with a mean of 6.4.

[Share](#) your reports and observations.

Just Ahead in Radiosports

- December 14 -- UN DIGI Contest (digital)
- December 14 -- Russian 160M Contest (CW, ssb)
- December 15 -- Feld Hell Sprint
- December 15 -- OK DX RTTY Contest
- December 15 - 16 -- Croatian CW Contest
- December 16 -- ARRL Rookie Roundup, CW
- Dec. 17 -- Run for the Bacon QRP Contest (CW)
- December 19 -- NAQCC CW Sprint

Jan. 20 -- ARRL VHF Contest – HTs OK

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:

- January 20 - 26 -- [Quartzfest Convention](#), Quartzsite, Arizona
- February 15 - 16 -- [Southwestern Division Convention](#), Yuma, Arizona

- February 23 -- [New Mexico TechFest](#), Albuquerque, New Mexico
- April 12, 2019 DX Convention Visalia, Ca
- May 31, 2019 SEA-PAC Seaside Oregon

Find conventions and hamfests in your area.

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

ARLD051 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 & WA7BNM web sites. Thanks to all.

Santa Claus:

DENMARK, OZ. Frank, 5P2BA is QRV with **Santa Claus** call sign XP1SC **until January 6, 2019**. QSL via OZ2CBA.

ROMANIA, YO. **Nine Santa Claus** stations are QRV as YP2XMAS through YP0XMAS **during December** from various locations. Activity is on the HF bands using CW, SSB and various digital modes. QSL via operators' instructions.

CYPRUS, 5B. Special event station C4XMAS is QRV during the festive season throughout the **month of December** on 160 to 6M using CW, SSB and digital modes. QSL via IZ4AMS.

New DX, IOTA & SOTA listings this month:

GHANA, 9G. Kay, 9G5SA is QRV as 9G2HO from Ho Technical University's club station. **[Listed Dec 2018]** Activity is on 17M. QSL#4

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.

PALESTINE, E4. Elvira, IV3FSG is QRV as E44YL from Bethlehem **until Dec. 18**. Activity is on 80 to 10 and possibly 160M, using CW, SSB, RTTY, PSK and FT8. QSL via IK3GES.

SOUTH COOK ISLANDS, E5. Milan, OK1DWC is QRV as E51DWC from Rarotonga, **IOTA OC-013 on 160 - 10M using CW, SSB RTTY. [listed**

Dec 2018 – ed] QSL #1

NEW CALEDONIA, FK. Phil, F6OBD will be QRV as FK/F6OBD **from Dec. 18 to Feb. 10, 2019**. Activity will be holiday style on the various HF bands using digital modes. QSL #1

THAILAND, HS. Erich, HB9FIH is QRV as HS0ZLS near Pattaya and Koh Samui, **IOTA AS-101, until January 10, 2019**. Activity is on HF using CW, SSB, and digital modes. QSL #1

OGASAWARA, JD1. Harry, JG7PSJ will be QRV as JD1BMH from Chichijima Island, **IOTA AS-031, from Dec 17 to Jan 2, 2019** on the HF bands using CW, SSB and RTTY. QSL #1

GREENLAND, OX. Station OX/SM3UQK is QRV **until Dec 19** from Constable Point, Nerlerit Inaat. [iota-ed] Activity is on 40 and 20M QSL #1

ARUBA, P4. Ben, DL6RAI is QRV as P4/DL6RAI until **Dec 27**. Activity is holiday style on the low bands, with a focus on CW, and some part-time activities in contests QSL#4

SLOVENIA, S5. Members of radio club S59DCD are QRV as S511PMC to call attention to the World Wide Peace Messenger City Contest to be held **January 5 and 6, 2019**. QSL via bureau.

GABON, TR. Roland, F8EN will be QRV as TR8CR **beginning Dec 16 and here for 3 months**. Activity will be on 40 to 17M, and possibly 80M, using CW & SSB. QSL via F6AJA.

KOSOVO, Z6. Philipp, DK6SP, Tomi, HA8RT, Flo, OE3FTA & Horia, YO3IMD are QRV as Z66DH from Pristina **until Dec 22**. Activity is on HF using CW, SSB & digital modes, including FT8 in DXpedition mode. QSL to M0SDV.

SOUTH SUDAN, Z8. Diya, YI1DZ is here for another **six months [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.

MONTENEGRO, 4O. Station 4O18YOTA is QRV **during Dec. 2018** as part of YOTA, or Youth On The Air. The idea behind YOTA is to show-

case amateur radio to the youth and to encourage them to be active on the air. QSL via OQRS.

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.

BOSNIA-HERZEGOVINA, E7. Station E71YOTA is QRV during **December** as part of YOTA. QSL via OQRS.

ESTONIA, ES. Station ES9YOTA is QRV during **December** as part of YOTA. QSL via OQRS.

ETHIOPIA, ET. Members of the Ethiopian Amateur Radio Society are QRV as ET3YOTA during **Dec.** as part of YOTA. QSL via N2OO.

FRENCH POLYNESIA, FO. Operators Cezar, VE3LYC and Adrian, KO8SCA are QRV as TX0A from Maria Est Atoll, **IOTA** OC-113, and as TX0M from Morane Atoll, **IOTA** OC-297P, **until December 18.** Activity is on 40 to 10M using CW and SSB. QSL via VE3LYC.

HONDURAS, HR. Tom, N9EAW is QRV as HQ9T from Roatan Island, **IOTA** NA-057, **until December 18.** Activity is holiday style on the HF bands using slow CW and SSB. QSL #1

DENMARK, OZ. Volker, DJ8VW will be QRV as 5P8VW/p from Aabenraa **until Dec. 19** on 160 to 6M using CW, SSB & FT8. QSL #1

ARUBA, P4. Ben, DL6RAI is QRV as P4/DL6RAI **until December 27.** Activity is holiday style on the low bands, with some activity in various contests. QSL #4

CURACAO, PJ2. Anders, SM4KYN will be QRV as PJ2/SM4KYN until **January 14, 2019.** Activity is on the HF bands. This includes being active as PJ2T in the ARRL 10-Meter contest. QSL direct to home call, and PJ2T via W3HMK.

EAST KIRIBATI, T32. Nobu, JA0JHQ is QRV as T32NH until December 11. Activity is on 160 to 6 meters using CW and FT8. This includes being active in the ARRL 10-Meter contest. QSL #1

MACEDONIA, Z3. Look for stations Z30YOTA and Z39YOTA to be QRV during **December** as part of YOTA. QSL via OQRS.

KOSOVO, Z6. Look for Z60YOTA to be QRV during **Dec.** as part of YOTA. QSL via OQRS.

Long Term: (longer than 1 month)

ANTARCTICA

SOUTH SHETLAND ISLANDS. Sang, DS4NMJ is QRV as DT8A from the Korean **Antarctica** Scientific Base King Se-Jong on King George Island, **IOTA** AN-010, until the **end of December 2018.** Activity will be on various HF bands using mainly CW and some SSB. QSL via HL2FDW.

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

Until the end of 2018

SERBIA, YU. Special event station YU100APV is QRV **through December 31, 2018** to commemorate the 100th anniversary of the unification of Vojvodina and Serbia.

FEDERAL REPUBLIC OF GERMANY, SLOVAK REPUBLIC, OM. The radio club Horec is QRV with Spcl Event call OM75 TESLA to the **end of 2018** to commemorate Nikola Tesla's death 75 years ago. QSL via OM3KHT.

SLOVENIA, S5. Special event station S510SOTA is **QRV during 2018** to celebrate the 10th anniversary of the S5 SOTA Association. QSL#3

UKRAINE, UR. Special event call EM30N is QRV until **December 31, 2018** to celebrate the 30th anniversary of the International Radio Amateur Club WW. QSL via UR4NWW.

NORWAY, LA. Members of the NRRL are QRV with special calls LM90NRRL, LM90HQ and LM90C **throughout 2018** to celebrate their 90th year as the IARU Society.

MALI, TZ. Laurent, F5IXR is QRV as TZ5XR **until end of 2018**. Activity is on 40, 20, 17, 12 and 10 meters using mostly CW. QSL #1

IOTA

Kolonia, Pohnpei, Janusz, AK4JK is QRV as V6JBVS from Kolonia, Pohnpei Island, IOTA OC-010. Activity is on 20 meters using CW. Length of stay unknown. [until end of 2018] QSL #1

2019

SAO TOME AND PRINCIPE, S9. Helio, CT1ENW is QRV as S92HP from Sao Tome City, **until Jan. 31, 2019**. Activity is on the HF bands, and 6M, using CW, SSB & digital modes. QSL #1

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

Saint Marie Island, IOTA AF-090, Eric, F6ICX is QRV as 5R8IC, **until mid Feb. 2019**. Activity is holiday style on 40 to 10 meters using mainly CW, with some SSB, RTTY, and PSK63. QSL #1

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

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

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 N4GMR.

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 September 2018:

Attendance: 21

Starting Lunch Kitty:	\$206.75
Expenses: Pizza(4) & Salad	\$100.00
Drinks: Soda: 11 @ 0.41	\$4.50
Water 1 @ 0.25	\$0.25
Food Total:	\$104.75 \$102.00
Income: Lunch:	\$109.75 \$209.75
Room Rent-To General Funds:	\$0.00 \$209.75
Starting - Kitty for Oct.. Mtg.:	\$209.75
[Gain of \$3.00 - \$20.00 for room rent = Loss of \$17.00]	

Lunch Financials – for October 2018:

Attendance: 25

Starting Lunch Kitty:	\$209.75
Expenses: Pizza(4) & Salad	\$102.00
Drinks: Soda: 11 @ 0.41	\$4.50
Water 3 @ 0.25	\$0.75
Food Total:	\$107.25 \$102.50
Income: Lunch:	\$101.00 \$203.50
Room Rent-To General Funds:	\$0.00 \$203.50
Starting - Kitty for Nov.. Mtg.:	\$203.50
[Loss of \$6.25 - \$20.00 for room rent = Loss of \$26.25]	

Lunch Financials – for November 2018:

Attendance: 23

Starting Lunch Kitty:	\$203.50
Expenses: Pizza(4) & Salad	\$100.00
Chkn Ceasar Salad	\$12.00
Drinks: Soda: 8 @ 0.41	\$3.25
Water 2 @ 0.25	\$0.50
Food Total:	\$115.75 \$87.75
Income: Lunch:	\$88.00 \$175.75
Room Rent-To General Funds:	\$0.00 \$175.75
Starting - Kitty for Dec.. Mtg.:	\$175.75
[Loss of \$27.75 - \$20.00 for room rent = Loss of \$47.75]	

Small price increase to help cover Higher room rent would be apropos.

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:

6 AM PST Tue Dec 18 (1400 UTC) – on CW Frequencies listed above, 10 to 35 WPM

West Coast Qualifying Runs:

-----by K9JM on 3590 & 7047.5 kHz, 10 to 35 wpm
 -----by K6KPH - 3581.5, 7047.5, 14047.5, 18097.5 & 21067.5 kHz 10-40wpm

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.

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. Come one, come all.

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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