



The Transponder



The monthly newsletter of the [Hughes Amateur Radio Club, W6HA](http://W6HA.com)
- An ARRL affiliated club -

March 13, 2020 Repeater 445.620 – PL 127.3 Web Site: <http://W6HA.com> Vol. XLVII, No. 3

***** VITUAL CLUB MEETING OTA *****

Where: The club Repeater (See mast head for Frequency and PL)
Location: Repeater location – “High Above LAX”

Meeting Notice: Date: Tuesday, March 17, 2020;
Time: Roll Call, 11:45; Meeting: 12 to 1 PM

Featured Presentation:

Ham Radio Hints & Kinks

by Howard, KE6MAK

Universal Test Tool (take to TRW Swap Meet, if any, to checkout/ Id items)

by Brian, AB6UI

Up Coming Events:

~~Saturday, March 28th, 2020 – TRW Ham Radio Swap Meet – Sell our Excess Stuff~~
Brian, AB6UI & Michael, N6MHD seting up to Sell it on E-Bay

Technician Class: April 25th, May 2nd - Postponed (Joslyn Center is closed to Meetings through April. Class will most likely be slipped, at least, into May. Stay tuned for further information)

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Lunch: You are on your own, but my recommendation: Order some pizza, delivery, from the club’s supplier – **Tower Pizza on Lincoln Blvd – 310-410-0986**, say Hughes ARC or me, (Dale) sent you. I believe, we get a good deal on pizza delivered to the meeting, so let them know where you’re from.

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: Thursdays at 7:30 PM So Bay ARC Net

First Monday of the month (7:00 PM) – LAFD CERT

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

Club News:**Presidents Corner**

What a year of Change and Opportunity to do new things!

Wow, this is an amazing year. RTN selling lot T. Our unloading our storage container and finding so many club members willing to store antennas, cables, and radio gear temporarily. Staffing a booth at the TRW swap meet. And NOW the covid-19 opportunity.

Many local cities including El Segundo have closed their libraries until further notice. As such our next club meeting, this Tuesday will be a virtual meeting. Dale will be mailing powerpoint charts or you can retrieve them from our club web site <http://w6ha.com> on the members page. Then connect into the repeater and we as Hams will overcome the obstacles that hinder mere mortals. Isn't it great to be a Ham.

Likewise Manhattan Beach has closed Joslyn Center which is where our next Ham class is scheduled to be held. We sent a note to the dozen people who want to take our class that we may postpone the class; that we will let them know by mid April. By then, we should have a more complete picture of what is happening. It's good to know that about half those who signed up for the class did so in just the last week, despite or possibly because of these extraordinary things happening around the city.

As President of our club, I'd like to encourage each of you to do only what you feel safe doing. We'll suspend face to face activities until further notice. With possibly new found time, this may be a great time to do some HF work or get on the 2 meter call frequencies and chat across the air waves.

73. Mike, N6MDV

Notes: February 2020 Business Meeting W6HA

Discussed the March meeting agenda. Will be Hints and Kinks for Portable Operations by Howard likely covering Masts, light antennas and SOTA. Also Brian will talk and demonstrate a component tester that will characterize almost anything connected to it.

Discussed participation at the next couple of TRW swap meets to sell more of our surplus gear.

Our next club meetings will be the third Tuesday in March and the second Tuesday in April due to library room conflicts (NOTE the dates are good,

but whether we will be doing it virtually or in person is late breaking news)

The club has established a link to a google share document spreadsheet with our club gear. If you are storing club gear, please edit to reflect what you have.

<https://docs.google.com/spreadsheets/d/1qvQvAKoeiXEd0v4EeLjmFhyIsZrCBeEE8gdLvwjgBeQ/edit#gid=0>

Dale suggested that we need to start looking for a site that can host our antenna trailer and find a new storage container. Brian concurred.

Dale described a goal of creating a special event radio station in 2022 the 75th anniversary of the first Spruce Goose flight. Dale is preparing a short description and will present at the April meeting.

Brian will let us know when the next ISS Radio Contact will be so more club members can participate working with the school.

Dale is heading the nomination committee to find new club officers for this next year. Elections will be in May or June. I encourage each of you to think about what you might do to support the club's success. I think a periodic change in leadership is good to encourage new thoughts and energize the club. If you might be able to take on one of the roles, please let Dale know.

Mike, N6MDV

TRW Swap Meet notes**Our 2nd Attempt at the TRW Swapper**

Once again Brian, AB6UI got us a great spot at the end of the Row. That allowed us a large semi-circle to setup in. Also, he got us a third parking spot – So two tailgates to display stuff on plus three tables, courtesy, Michael, N6MHD plus the semi circle.

Lesson Learned, with the semi-circle my two tables would have been handy.

Brian, AB6UI: I had Dale handle the money for the club sales and I helped get potential buyers interested in actually buying. I think we found a buyer for the small tower that was attached to the Conex box! [We did! We did! Delivered it on Tuesday – He paid \$101.00. I just printed up two pictures of it on the Conex box before we took it down. - MMQ]

The club also sold a 220 amp (that was tuned out of the ham band) and other misc things.

I did a BIG garage clean out and brought used radio stuff, computer parts, electronic parts, Arduinos, even and old cordless drill.

People want bargains so I let the stuff go cheap. But I did well. Bottom line we had a good time saw lots of old friends and even made a little money. Next month is our final chance! 73 de AB6UI, Brian

Dale, WB6MMQ: I sold or, rather, bought the Drake C-4 station controller \$100 (missing the Power Strip and the outer Drake Cabinet, Clock not working and power does not latch 'ON'). I'll donate another \$100 if the power strip shows up. I remember seeing it somewhere, Lobby D or the Container. Michal found the Power Strip, in stuff he had stored, so \$200 for the lot.

Mike, N6MHD: Sold (or should I say) bought the National NC183D speaker \$100, and the Hickok Model 533 Tube Tester - \$100. At the end he took a couple of the small UPSs and the flat screen that operates on 12 volts @ \$20 for the lot.

Howard, KE6MAK: 'I noticed, a lot of folks looking at the Heathkit DX-100 Transmitter but shying away from the Swan and Drake units other than curiosity'. I brought the following to sell: JPS NIR-10 Noise/Interference Reduction unit – aka AF DSP priced @\$80, (\$75 to \$125 on QRZ) Yaesu FT-50 2M/440 HT w/ AA battery case, charger, working - \$55 obo Uniden/Bearcat Scanner, 29 – 956 MHz 200 chnls w/Wx alert, antenna., Manual \$50, obo

TRW Swapmeet sales 29 February 2020			
Name/Call	Description	Model	Price
Bob/WB6SLC	Tower - Tri-X Winch		\$101
Dale/WB6MMQ	Drake Sttn Cnsl	C-4	\$200
Mike/N6MHD	National Speaker	NC183D	\$100
unk	Amp, 220, Out of Band		\$10
Mike/N6MHD	Hickok Tube Tester	533	\$100
unk	HeathKit, FM Signal Gen.	RF-1	\$20
unk	TimeX Sinclair Computers, documentation & Case		\$25
Howard/KE6MAK	Commsn on Sale - Icom R2 wideband scanner sold for \$40	Icom R2	\$6
Mike/N6MHD	UPS - (2 @ \$5 = \$10)		\$10
Mike/N6MHD	Monitor - 12 volt		\$10
Total Sale:			\$582

Icom R2 wideband scanner, Sold for \$40.00
Commision to Club \$6.00

That's all I've got. 73 de worst morning person in the club, Howard, KE6MAK

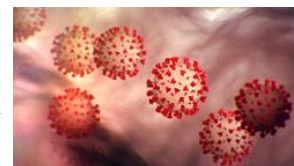
Thank You from the club, Howard.

Brian suggested I handle the money for the club, since he was doing a land office business, having cleaned out his garage, so the club's and his personal funds did not get mixed. I ended up with \$580 in my pocket, for the club. I didn't kept notes, but my memory with help from the others, the breakdown is shown above.

73 Dale. WB6MMQ

ARRL Letter – Excerpts of possible interest

Visalia International DX Convention, Other Events, Canceled Due to Coronavirus Concerns



Concern over COVID-19 has led to the cancellation of the 2020 International DX Convention (IDXC) and of several other amateur radio-related events here and abroad. The IDXC was to be held April 24 - 26 in Visalia, California.

"We send out our apologies to all our prospective patrons of the 2020 International DX Convention," IDXC Co-chairs Cathy Gardenias, K6VC, and Kris Jacob, K6TOD, said on behalf of the convention committee. "Due to concerns, health and well-being of our amateur radio family, our age group, and possible compromised health issues, we are taking the side of safety and canceling the convention." They conceded that, although the number of COVID-19 cases remains low, it only takes one person to pass the virus. IDXC is processing refunds.

On **March 11, the Dayton Hamvention®** Executive Committee, said, "As of now we plan on holding Hamvention unless otherwise directed. It is our intention to follow the orders of the State of Ohio and the Greene County Health Department." On March 12, Ohio Governor Mike DeWine issued an executive order barring public participation in sporting events and other large gatherings (defined as 100 or more attendees). Ohio has reported four confirmed COVID-19 cases.

An in-person version of the [HamSCI workshop](#), set for March 20 - 21 at the University of Scranton, has been canceled because of the coronavirus situation. HamSCI's Nathaniel Frissell, W2NAF, who's organizing the event, said alternative plans are in play to hold a virtual workshop.

The Gulf Coast Amateur Radio Club Spring Hamfest on March 14 and the Great Lakes Convention on March and the March 15 Toledo Hamfest in Ohio have been canceled. Also canceled: [Communications Academy 2020](#), due to be held in Seattle, Washington, April 24 - 26.

ARRL has created a [URL](#) that will search the ARRL Hamfest and Convention Database for canceled events.

FCC Headquarters has barred the door to visitors, employees, and contractors who have been in any country subject to a COVID-19-related CDC Level 3 Travel Warning. It also has suspended until further notice any FCC involvement in large, non-critical gatherings involving national or international participants. Read [more](#).

"Team Exuberance" Aims to Lower the Average Age of Contesters

Seven of the world's top youth CW operators will convene at the western Pennsylvania superstation of Tim Duffy, K3LR, in late May, in an effort to lower the average age of contest operators -- especially CW operators. "Team Exuberance (TE)," comprised of teens and early 20-somethings, gained a reputation during the CQ WPX phone event in 2019. This year, they will tackle the CQ WPX CW contest on May 30 - 31. The young operators have been raising money to minimize the cost of the adventure for the participants and their families.

"The average age of today's CW operator is 67," the group asserted. "Team Exuberance CW 2020 (TE CW 2020) is out once again to take a swing at the radiosport establishment, disprove the adage that old age and treachery will always beat youth and exuberance, and bring down the average age of the contesting community." They also want to

prove "that youth contesters are legit contenders" in the radiosport arena.

Violetta Latham, KK8AT, led the first [Team Exuberance contest operation](#), which took first place in North America in the Multi-Two category, racking up a score of 22 million points and logging 5,700 contacts. The team will stick to the Multi-Two format for the WPX CW this year.

The TE CW 2020 team will include David Samu, VE7DZO; Marty Sullaway, NN1C; Philipp Springer, DK6SP; Bruce Yang, KN8U/BH4EPL; Tomi Varro, HA8RT; Mathias Acevedo, CE2LR, and Bryant Rascoll, KG5HVO.

The team has mounted a [GoFundMe campaign](#) to raise the projected \$8,000 necessary to cover airfare, hotel, transportation, and meals for the duration of the contest. Any excess funds will be donated to the David Kalter Youth DX Adventure.

"Your donation will not only help our team achieve the goal of participating in the CQ WPX CW 2020 but also keep the momentum of bringing more youth into the hobby and ultimately bring down the average age," the team said in its pitch.

TE CW 2020 says its operators were handpicked for this contest and are all highly skilled and experienced. Varro, who is 21, was the 2014 High-Speed Telegraphy (HST) competition champion, while Yang, also 21 and a student at Georgia Tech, was the World Rookie champion for the 2019 CQ WPX CW event.

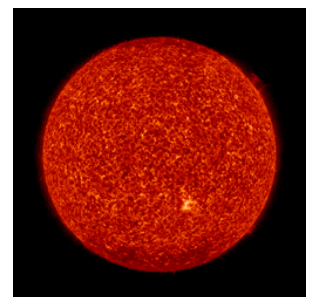
Finding skilled youth CW operators is even rarer," TE CW 2020 said in a news release. "They do [CW] because it's fun and challenging."



The 2019 Team Exuberance with K3LR in the center.

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: I felt cheated this week when a much-anticipated sunspot appeared only briefly, and after 2 days was gone. Sunspot region AR2758 only appeared on March 8 - 9, with daily sunspot numbers of 13 and 12, respectively. Some [new activity is visible](#) over the



solar horizon -- a very active and bright spot, but this time in the sun's northern hemisphere.

Average daily sunspot numbers for the week rose from zero to 3.6, while average daily solar flux barely increased, from 70 to 70.2. Average daily planetary A index declined from 6.7 to 4.4, and average middle latitude A index decreased from 4.6 to 3.6.

Predicted solar flux over the next 45 days is 71 on March 12 - 14; 70 on March 15 - 18; 72 on March 19 - 22; 70 on March 23 - April 4; 72 on April 5 - 18, and 70 on April 19 - 25.

Predicted planetary A index is 5 on March 12 - 18; 12 and 8 on March 19 - 20; 5 on March 21 - 26; 12 and 8 on March 27 - 28; 5 on March 29 - April 5; 10 and 8 on April 6 - 7; 5 on April 8 - 13; 8, 12, and 8 on April 14 - 16; 5 on April 17 - 22, and 12, 8, and 5 on April 23 - 25.

Sunspot numbers for March 5 - 11 were 0, 0, 0, 13, 12, 0, and 0, with a mean of 3.6. The 10.7-centimeter flux was 69.5, 70, 69.9, 70.2, 70.8, 70.8, and 70.5, with a mean of 70.2. Estimated planetary A indices were 4, 5, 5, 5, 5, 4, and 3, with a mean of 4.4. Middle latitude A index was 3, 4, 5, 3, 5, 3, and 2, with a mean of 3.6.

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

- Mar 14 -- AGCW QRP Contest (CW)
- Mar 14,15 - RSGB Commonwealth Contest -cw
- Mar 14 - 15 -- F9AA Cup, SSB
- Mar 14,15 – S. America 10 M Contest - cw, ph
- Mar 14, 15 -Stew Perry Topband Challenge-cw
- Mar 14 - 15 -- Oklahoma QSO Party (CW, phone)
- Mar 14 - 15 -- TESLA Memorial HF CW Contest
- Mar 14 - 15 -- QCWA QSO Party (CW, phone)
- Mar 14 - 15 -- Idaho QSO Party (CW, phone)
- Mar 14 -- QRP ARCI Spring Thaw SSB Shootout
- Mar 15 -- North American Sprint, RTTY**
- Mar 15 - 16 -- Wisconsin QSO Party (cw, ph, dig)
- Mar 16 -- Run for the Bacon QRP Contest (CW)

Mar 17 -- CLARA Chatter Party (CW, phone)

Mar 19 -- 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.

For Sale: by former Club President Chuck Lobb, KN6H, Tower and Antennas - 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

ARRL Celebrates Successful Launch Carrying Interoperable Radio System to ISS

Amateur Radio on the International Space Station ([ARRL](#)) is celebrating the successful launch and docking of the SpaceX-20 commercial resupply mission to the International Space Station (ISS). One payload on the flight is the ARISS Interoperable Radio System (IORS), which ARISS calls "the foundational element of the ARISS next-generation radio system" on the space station. Amateur radio has been an integral component of ISS missions since 2000. The *Dragon* cargo capsule docked successfully with the space station on March 9. ARISS-US Delegate for ARRL Rosalie White, K1STO, said hundreds of ARRL members contributed to make the IORS project happen, and ARISS is celebrating the 4-year-long project.

"ARRL is truly grateful to ARRL and AMSAT for their co-sponsorship and support of ARISS since day one,"



White said. "ARISS greatly appreciates the hundreds of ham radio operators who have stood by ARISS, sending financial support and encouragement. A robust ham station is on its way to replace the broken radio on the ISS, and tens of thousands of hams will enjoy strong ARISS packet and ARISS SSTV signals as a result. In addition, thousands of students will discover and use ham radio to talk with a ham-astronaut. We hope to see the trend continue where more ARISS teachers and local clubs set up school ham clubs." The new system includes a higher-power radio, an enhanced voice repeater, updated digital packet radio (APRS), and slow-scan television (SSTV) capabilities for both the US and Russian space station segments.

White called the March 7 launch, "beautiful, flawless." ARRL President Rick Roderick, K5UR, told ARISS that he had his fingers crossed for a successful launch.



According to NASA Mission Control, it will take the three ISS crew members up to a month to unload and stow the 4,300 pounds of cargo

on board the *Dragon* capsule, and the IORS is not a priority. The actual ham equipment will be installed in the ISS *Columbus* module. Another IORS unit is in line to be launched and installed in the Russian segment of the ISS later this year.

The IORS consists of a custom-modified JVCKenwood TM-D710GA transceiver, a multi-voltage power supply, and interconnecting cables. The ARISS hardware team will assemble four flight units -- and 10 IORS units in all -- to support onboard flight operations, training, operations planning, and hardware testing. Future upgrades and enhancements to the next-generation system are in various stages of design and development. These include a repaired Ham Video system -- currently planned for launch in mid-to-late 2020, an L-band (uplink) repeater, a microwave "Ham Communicator," and Lunar Gateway prototype experiment.

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

Mar 13,14 -- [La State Convention](#), Rayne, La

Mar 13,14--[N. Carolina Sectn Cnvntn](#), Concord, NC
 Mar 14 --[W.Va Section Cnvntn](#), Charleston, W. Va
 Mar 29 -- [Va Section Convention](#), Annandale, Va
 April 3 - 4 -- [OzarkCon](#), Branson, Missouri
 April 18 -- [La Section Convention](#), W. Monroe, La
May 15 – 17 Dayton Hamvention, Xenia, Ohio
 June 6, 7 -- [NW Division Convention](#), Seaside, Or
 June 6, 7 – [W. Penn. Section Cnvntn](#), Prospect, Pa
 June 6 -- [Georgia State Convention](#), Marietta, Ga

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

In Brief...

The theme for the 2020 [Dayton Hamvention](#)® will be "Amateur Radio, The Future." [held over Dec. '19 - ed]



Hamvention General Chair Jack Gerbs, WB8SCT, invited Hamvention

attendees to celebrate amateur radio's past, present, and future. "As amateur radio operators, we enjoy many modes of operating," Gerbs said. "We also enjoy challenges such as satellite communications, moonbounce, meteor scatter, and more. What truly excites me about our hobby is the diversity of these modes and the fact that, as we move to the future, we still enjoy the technologies of the past." . . . Hamvention 2020 takes place May 15 - 17 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio. (See article on Page 2 – Covid-19 Hamvention open)

The Dominican Republic now has a 60-meter band.

Following an Executive Branch vote, Dominican Republic telecommunications regulator Indotel has [updated](#) the country's [National Frequency Allocation Plan](#), which includes



the allocation of a 60-meter segment of 5351.5 - 5366.5 kHz to amateur radio fixed and mobile stations (except for aeronautical mobile stations). Stations may not exceed a maximum radiated power of 15 W EIRP. The Dominican Radio Club recommended adoption of the plan.

We simply attempt to be fearful when others are greedy and to be greedy only when others are fearful.

Warren Buffett

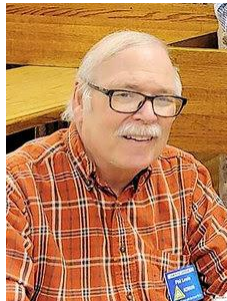
An international team of 10 operators will be active as [W8S](#) from Swains Island from March 10 to 25.

The DXpedition team will be active on all HF bands on CW, SSB, FT8, and RTTY. Operation will be from two separate camps on the island -- a Red Camp and a Blue Camp -- each with two stations. The four stations will be on the air 24/7. The station equipment complements are identical. Two stations will be dedicated for 160 and 80 meters. A WiFi network will link the Red and Blue camps to network all logging laptops. Hans Griessl, DL6JGN, and Ronald Stuy, PA3EWP, are co-leaders. Swains Island (Olohega) is an atoll in the Tokelau chain. Swains is a US territory and considered part of American Samoa. Swains Island is the 34th most-wanted DXCC entity.



The founder of the annual [Ham Radio University](#) in New York, Phil Lewis, N2MUN, of Lindenhurst, New York, died on March 5. An ARRL member, he was 72.

Lewis grew up on Long Island, attended RCA Institute, and worked for Hazeltine and, later, BAE Systems in the aerospace industry. Licensed in 1991, he was a member of Great South Bay Amateur Radio Club ([GSBARC](#)), serving as a volunteer examiner and instructor and participating in Field Day and special events. Lewis was GSBARC President from 2000 to 2002. He was an active DXer and contester, and a member of the Yankee Clipper Contest Club (YCCC).



[Select DX News](#) (QRV = Ready! or Are you Ready?)
[ARLD011 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.

MAURITIUS, 3B8. Nigel, G3TXF is QRV as 3B8XF **until Mar. 28**. Also will be an entry in the RSGB Commonwealth Contest. QSL#4

MALDIVES, 8Q. Noel, F6BGC is QRV as 8Q7NC from Veligandu Isls, IOTA AS-013, **until March 21**. Activity is on 80 to 10 meters using CW, SSB and various digital modes. QSL#4

GHANA, 9G. Alan, G3XAQ is QRV as 9G5XA from Accra, on 160 to 10M using CW. This includes entering the RSGB Commonwealth contest. His length of stay is unknown. [**Listed 3/12/20** – ed] QSL direct to G3SWH.

KUWAIT, 9K. Members of the Kuwait ARS are QRV as 9K2F from Failaka Island, IOTA AS-118, **until Mar. 15**. QSL via 9K2RA.

BAHRAIN, A9. Special event station A91GP is QRV **until March 22** to celebrate the 2020 Bahrain Grand Prix. QSL via A92AA.

EASTER ISLAND, CE0. Mike, VE7ACN will be QRV as CE0Y/VE7ACN **from March 19 to 30**. Activity will be on 80 to 10 meters, and possibly 160 meters if conditions permit, using mainly CW. QSL to home call.

PHILIPPINES, DU. Lenny, N7MOT is QRV as DU6/N7MOT from Panay Island, IOTA OC-129. Activity is on 80 to 6 meters using SSB and FT8. He is generally active on 80 and 40 meters around 1200 to 1600z, and 20 meters between 2300 and 0300z. [**Listed 3/12/20** – ed] QSL #4

SPAIN, EA. Special event station EH3DWN will be QRV **until March 21** to mark World Down Syndrome Day on March 21. QSL via LoTW.

NORTHERN IRELAND, GI. Special event calls GB0SPD, GB2SPD and GB4SPD will be QRV from **March 16 to 18** during the St. Patrick's Day On The Air operating event. QSL via operators' instructions.

LITHUANIA, LY. Special event stations LY11LY and LY30LY are QRV **during March** to celebrate Lithuania's independence. QSL LY11LY via LY2QT and LY30LY via LY5A.

CURACAO, PJ2. Andreas, DK5ON will be QRV as PJ2/DK5ON from **March 15 to 31**. Activity will be on 80 to 6 meters, including 60 meters, using CW, SSB, RTTY, FT8 and FT4. This includes being entries in the upcoming Russian DX and CQ World Wide WPX contests. QSL #1

ST. PETER AND ST. PAUL ROCKS, PY0S. Look for PQ0S to be QRV from **March 14 to 16**. Activity will be on 80 to 10 meters using CW, SSB and various digital modes. QSL via PP5BZ.

SLOVENIA, S5. Members of Radio Club Cerklje are QRV with special event call S500E for **all of 2020** to mark half a million QSOs made from the S50E station. QSL #4.

SEYCHELLES, S7. Nick, G7EQM is QRV as S79EQM **until March 29**. Activity is holiday style on 20 meters using SSB and FT8. QSL#1

BELIZE, V3. Iain, G4SGX is QRV as V31 GX. This includes being an entry in the RSGB Commonwealth contest. [**listed 3/12/20** – ed] QSL via M0OXO.

THE TRANSPONDER, de W6HA

March 13, 2020

NAMIBIA, V5. Pat, KI4SVM will be QRV as V5/KI4SVM **until March 28**. Activity will be holiday style on the HF bands using CW and SSB. This may include being active from SOTA references as well. QSL #1.

CAYMAN ISLANDS, ZF. Colin, G4CWH is QRV as ZF2CA. Activity is on 160 to 10 meters using CW and SSB. This includes being an entry in the RSGB Commonwealth contest. QSL#1

NEW ZEALAND, ZL. Frank, ZL2BR, Geoff, ZL3GA, Phil, ZL3PAH and Paul, ZL4TT will be QRV as ZM2B in the RSGB Commonwealth contest. QSL #4

KENYA. 5Z. Scott, WA5A is QRV as 5Z4/WA5A from Ruaka until **late March**. Activity is holiday style on 40, 20 and 15 meters, and possibly 160 and 80M, using mainly SSB. QSL #1

SOLOMON ISLANDS, H4. Bernhard, DL2GAC is QRV as H44MS from Malaita Island, IOTA OC-047, **until April 20**. Activity is on 80 to 6 meters using SSB and possibly FT8. QSL #1

CANARY ISLANDS, EA8. Erich, HB9FIH is QRV as EA8/HB9FIH from El Hierro, IOTA AF-004, until the end of **March 2020**. Activity is on the HF bands using CW, SSB and various digital modes. This includes various SOTA and IOTA activations. QSL to home call.

SRI LANKA, 4S. Peter, DC0KK is QRV as 4S7KKG **until March 30**. Activity is on the HF bands using CW and various digital modes. QSL to home call.

NORFOLK ISLAND, VK9N. Janusz, SP9FIH is QRV as VK9NK **until April 12**. Activity is on 160 to 10 meters using SSB, RTTY and FT8. QSL#1

QATAR, A7. Rasto, OM6AA is QRV as A75GR **until April 2020**. Activity has been on 80 meters. QSL via M0OXO.

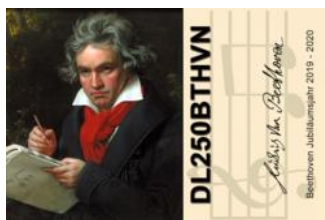
MYANMAR, XZ. Martti, OH2BH is QRV as XZ2D **until April 17, 2020**. Activity is generally on 15 and 10 meters. QSL #1

Long Term: (longer than 1 month)

CHATHAM ISLANDS, ZL7. Chris, ZL7DX is currently QRV on 20 and 6 meters using mostly digital modes. He plans to be active on other bands soon. [Listed Jan 2020 – mmq] QSL #1

ZAMBIA, 9J. Mario, IK1MYT is QRV as 9J2MYT from Lusaka until **June 2020**. Activity is on 40, 20, 15 and 10 meters. QSL #1

Until the End of 2020
A year-long special event will honor Beethoven. German special event station [DL250BTHVN](https://www.hamradio.com/contests/2019/03/dl250bthvn/) will be active



between **until December 17, 2020**, to honor the 250th anniversary of the birth of famed composer Ludwig van Beethoven. The Beethoven anniversary year will take place under the auspices of Germany's Federal President Frank-Walter Steinmeier. Beethoven was born in December 1770 in Bonn, Germany, and lived there for the first 22 years of his life. QSL via direct or by the bureau.

FEDERAL REPUBLIC OF GERMANY, DA. Members of the DARC club of Pulheim are QRV with special event call sign DL40PUL **during 2020** to celebrate the club's 40th anniversary. QSL via bureau.

Until 2021

SOUTH SUDAN, Z8. James, Z81C is QRV from Juba while working for a non-governmental organization for the **next 18 months. [until March 2021-ed]** Activity is mostly on SSB. QSL #2

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

Lunch Financials – for Dec., 2019

Attendance: 23

Starting Lunch Kitty:	\$ 160.75
Expenses: Pizza(1) & Salads	\$102.00
Drinks: Soda: 10 @ 0.35 =	\$3.50
Water 2 @ 0.25 =	\$0.50
Food Total:	\$106.00
Income: Lunch:	\$103.25
Room Rent-To General Funds:	\$00.00
Starting - Kitty for Jan. 21, 2020 Mtg:	\$158.00
[Loss of \$2.75 - \$20.00 for room rent = Loss of 22.75]	

Lunch Financials – for Jan. 21, 2020

Attendance: guessing 20 in park

Starting Lunch Kitty:	\$158.00
Expenses: Pizza(4) & Salads	\$102.00
Drinks: Soda: 14 @ 0.34 =	\$ 4.75
Water 0 @ 0.25 =	\$ 0.00
Food Total:	\$106.75
Income: Lunch:	\$ 99.50
Room Rent-To General Funds:	\$0.00
Starting - Kitty for Feb 18, 2020 Mtg:	\$ 150.75
[Gain of \$6.75 - \$20.00 for room rent = Loss of \$13.25]	

Lunch 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
Income: Lunch:	\$108.75
Room Rent-To General Funds:	\$00.00
Starting - Kitty for Mar 17, 2019 Mtg:	\$154.00
[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.ARRLLAX.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 & 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 (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, 18 WPM
2300 "	2200 "	(3 PM PDT)	DIGITAL	Daily, Digital Bulletin
0000 "	2300 "	(4 PM PDT)	CWs	Mon, Wed, Fri
0000 "	2300 "	"	CWf	Tue, Thu
0100 "	0000 "	(5 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM
0200 "	0100 "	(6 PM PDT)	DIGITAL	Daily, Digital Bulletin
0245 "	0145 "	(6:45 PM PDT)	VOICE	Daily, Voice Bulletin
0300 "	0200 "	(7 PM PDT)	CWf	Mon, Wed, Fri
0300 "	0200 "	"	CWs	Tue, Thu
0400 "	0300 "	(8 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM

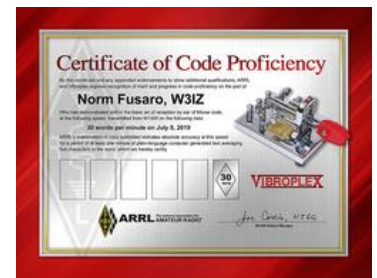
Frequencies (MHz)

CW:	1.8025	3.5815	7.0475	14.0475	18.0975	21.0675	28.0675	50.350	147.555
DIGITAL:	-	3.5975	7.095	14.095	18.1025	21.095	28.095	50.350	147.555
VOICE:	1.855	3.990	7.290	14.290	18.160	21.390	28.590	50.350	147.555

Notes:

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

CW frequencies include code practices, Qualifying Runs and CW bulletins.
 DIGITAL = BAUDOT (45.45 baud) BPSK31 and MFSK16 in a revolving Schedule.
 Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and alternate speeds.



W1AW Qualifying Runs: [for more info: www.arrl.org/qualifying-run-schedule]

Starting in Dec. W1AW will transmit Qualifying Runs up to 16 times per month.

For Feb. & Mar.- Time is PST: [10 – 35 wpm – **Bold 35 – 10 wpm**] – on CW Frequencies listed above

Month	6am	1PM	4PM	7PM	6am	1PM	4PM	7PM	6am	1PM	4PM	7PM	6am
Mar.		3/2	3/3	3/5*	3/6	3/10	3/11*	3/18	3/12			3/13	
Mar.	3/17	3/27		3/23*	3/25	3/26	3/19			3/20*			
Apr.		4/6	4/7	4/9		4/14	4/15		4/16			4/17	4/21
Apr.			4/23	4/22		4/24		4/27	4/29	4/30			

West Coast Qualifying Runs:

Sat. Mar. 21 @ 2 PM PDT (2100 UTC Jan. 30) on 3581.5, 7047.5, 1407.5 & 18097.5 kHz by K6KPH; 10-35 wpm
 Wed. Apr 22 @ 9 PM PDT (0400 UTC Apr. 23) on 7047.5 & 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.

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 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.

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

PRESIDENT:	Mike, N6MDV	President at W6HA.com
VICE PRESIDENT:	Raul, KM6NRL	W6HA_VicePresident at W6HA.com
SECRETARY:	Judi, KI6TKT	W6HA at W6HA.com
TREASURER:	Alice, KK6MFL	Treasurer at W6HA.com
STATION MANAGER:	Brian, AB6UI	W6HASTationMgr at W6HA.com
Immediate PAST PRES.:	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
MEETING HOST:	Dale, WB6MMQ	W6HA at W6HA
Asst. Host:	Howard, KE6MAK	W6HA at W6HA
FIELD DAY :	Mike, Dale, Raul, Richard	Fieldday at W6HA.com
MEMBERSHIP:	Dale, WB6MMQ	W6HA at W6HA.com
NET COORDINATOR:	Raul, KM6NRL	W6HA at W6HA.com
YAHOO GROUPS MOD:	Richard KM6FP	W6HA at W6HA.com (http://groups.yahoo.com/w6ha)
CLASS MODERATOR:	Mike, N6MDV	W6HAClass 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	

HARC Repeater Nets: Wednesdays, 7:30 PM (0200 UTC Thursdays) (Just Started Sept. 2018)
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: 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

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 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

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.
