



The Transponder



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

September 11, 2020 Repeater 445.620 – PL 127.3 Web Site: <http://W6HA.com> Vol. XLVII, No.9a

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

Where: The club Repeater, also on EchoLink (N6MDV-R) and Zoom (e-mail for PW)
Location: Repeater location – “High Above LAX”

Meeting Notice: Date: Tuesday, September 15, 2020, meeting 12 to 1 PM
Time: Zoom attendees may gather as early as 11:30
Roll Call, 11:45



Featured Presentation:

Amateur Radio During the Pandemic of 2020
by Bob, KK6WYW

Up Coming Events:

On-Going to Oct. 20, 2020 – Far Out Contest
Fall of 2020 – Technician License Class – On Hold
Wednesday, July 1st Dues were Due for the 2020 – 2021 club year
(Membership form attached) (New members: If you joined after 1/1/20 you’re paid until June 30,2021)

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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.

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

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

Club News:**Presidents Corner****ILLW – August 22, 2020**

Four intrepid souls cast off and set sail for Angles Gate Light early Saturday morning (22 Aug 2020). The crew consisted of AB6UI Brian, AG6ST Ron, K6UU Norm and the boat owner Patrick.



We anchored near the mouth of the port of Los

Angeles just a few hundred yards from Angeles Gate Light US 0144. We strung a 20m Dipole in the rigging of "Bad Cat", a 41 foot Lagoon Catamaran, and went on the air by about 17:15 UTC. Our ICOM IC-7300, running 100W, did a great job on 20M SSB and we started making QSOs right away. We were using the call sign K6HYC since the entire crew are all members of the King Harbor Yacht Club.

This area of the harbor is nicknamed "Hurricane Gulch" by the locals so by about 20:30 UTC we had to raise anchor, due to high winds, and head back to the dock. But even in this short time we were able to work 28 stations in the USA and Canada. The high point of the event was a Lighthouse to Lighthouse QSO with W7L US 0022 in Oregon.



This was the first time Angles Gate was activated for ILLW.

It was great to finally put this Lighthouse on the air and we hope to do it again next year!

JOTA:

KHYC set very strict guidelines for operating there for FD. All participants had to be members and only three people could be at the station at any given time. Based on those rules I don't see a way that we could invite youth to join your JOTA station without violating current COVID guidelines. So no JOTA this year :-)

73 de AB6UI, Brian

HARC - Far Out Contest:

So far there have been minimal entries submitted via the Club email. The contest runs until the day before our October meeting. Perhaps this weekend's V/UHF Contest (see page 5) will see members flexing their RF Muscles and taking a

stab at the Winner's Prize - a compact UHF Log Periodic Antenna! There is only ONE WAY to find out if you beat other's distance and that is by pushing that PTT button!

Objective:

Make the longest distance contact with the W6HA Repeater using only your radio and antenna (at your transmit location) to directly activate the repeater. Contact must be made directly from your radio to the repeater, so no remote base or Echolink. (For Details, See attachment)

Submitted by, Howard, KE6MAK

As of July 1st, HARC Dues were Due

It's probably NOT hard to believe another year has past. It seems like two or three to me, in this Covid-19 year. The club's year runs from July 1st to June 30th, so therefore **dues are due**. Regular dues (for those employed) are \$20, but if you are retired (or otherwise not working) they are \$15. Also, if needed, (because of a new call, loss or breakage) a new badge is \$5 to defray that cost.

In this Covid-19 environment, please submit a check to the membership chairman, Dale, WB6MMQ (address on form) or Paul, KK6TAC.

New Members, Please note: If you joined this year (after 1/1/2020) your dues are paid through June 30, **2021**.

73, Dale, WB6MMQ, Membership Chair

Contests: September - October**Route 66 on the Air, Sept 12 - 20**

The [Citrus Belt Amateur Radio Club](#) will sponsor its 21st "Route 66 on the Air" special event September 12 - 20, with 21 stations, each with a 1 × 1 call sign -- W6A through W6U -- from cities along the highway. Route 66 is famous in American history as a major highway from the midwest to the west coast and is associated with American car culture as well as with the vintage *Route 66* television program in the early 1960s.

**Far Out Contest – HARC Club Contest**

In progress, ending Oct. 20, 2020

Object: To bring up the Repeater, using RF from your radio, from the farthest away.

Detailed rules are attached, or contact, Howard, KE6MAK

California QSO party, Oct 3, 4

This contest is an HF contest with phone and CW, the first weekend of October. The good thing about the California QSO party is that all states and

Canadian provinces want to talk to California Counties; that plus the Canadian provinces gives an opportunity for a 58 multiplier. Also it is a good chance to earn the ARRL Worked All States award. Exchange is state or county plus a sequence number.

Without a Manhattan Beachhome town fair run, to support this year, it should be easier to work the contest from the beginning. 9AM Saturday through 3PM Sunday. (1600 UTC October 3, 2020 to 2200 UTC October 4, 2020

Mike, N6MDV

CQ World-Wide DX Contest

SSB: October 24-25 CW: November 28-29

The CQ WW is the largest Amateur Radio competition in the world. Over 35,000 participants take to the airwaves on the last weekend of October (SSB) <https://www.cqww.com/>

OBJECTIVE: For amateurs around the world to contact as many other amateurs in as many CQ zones and countries as possible.

This is one of the old standards.

HARC Net News:

Our Wednesday Night Net now includes a Ham Radio Trivia Question. Questions may be about Ham radio in general, license exam questions, The question is presented during the Net Preamble and answers are given at time of check in. Members are encouraged to submit questions via Club email with "Trivia Question" as the subject.

HARC Net participation this past month is tabulated below. Please note that our Simplex net was not held one week due to fatiguing heat. This is a bit lower than some previous periods, and expected to increase as our weather returns to normal and our Trivia Question format is running.

HARC Net Statistics for August

Repeater Check ins	Total:52	Ave: 13
Simplex Check ins*	Total: 28	Ave: 7

*Simplex net was not held one week

Submitted by Howard, KE6MAK

Chat Comment during last Zoom/ MOTA that may not have been noticed

Per the GPS Module that folks take with them to figure out grid squares: There is a iPhone/Android app that you can install to do the same thing. As

long as you can get cell reception, it will work - one less item to carry, unless you are in the desert where no coverage is possible.

- Ham Square (iPhone)
- HamGPS (Android)
- Repeater Book (iPhone/Android) - Note: This one has all the repeaters local to your location. The nice thing here is that it also displays your grid square at the top, so you do not even need the other two apps above if you just need your grid.

System Fusion:

- Very much looking forward to using the repeater if this is implemented. I worked on setting up my own Zumradio node via USB and immediately heard New Zealand, UK, Ireland, Texas, etc - all over. Very cool and very easy.
- Wanted to use Wires-X directly, so this repeater would be great.
- Working on: SCU-39 connectivity to setup my own personal node via the FT3D directly linked. Pi-Star Box. DMR and Cross Mode communications.

Submitted by, Andy, KZ6R

Board Meeting Minutes – For August 2020

Meeting was not held.

ARRL Letter – Excerpts of possible interest
Preparations Continue for World Radiocommunication Conference 2023

As preparations for World Radiocommunication Conference 2023 (WRC-23) go forward, the International Amateur Radio Union ([IARU](http://www.iaru.org)) continues its efforts to protect amateur and amateur-satellite allocations. The international conferences, sponsored by the International Telecommunication Union (ITU), typically take place every 4 years.



IARU participated in the first online meeting of Project Team A (PTA) of the WRC-23 [CEPT](#) Conference Preparatory Group (CPG), . . .

Agenda Item 1.12 addresses [studies](#) stemming from WRC-19 that are now under way to consider a new

secondary allocation to the Earth Exploration-Satellite (active) Service (EESS active) for spaceborne radar sounders in the 40 - 50 MHz range, taking into account the protection of incumbent services (including in adjacent bands), which would include 6 meters. A handful of countries have also allocated secondary amateur bands in the vicinity of 40 MHz.

The WRC-19 Resolution (Res. 656), which ordered the studies, noted that spaceborne-active RF sensors can provide unique information on physical properties of the Earth, and that spaceborne-active remote sensing requires specific frequency ranges depending on the physical phenomena to be observed. Spaceborne radars are intended to operate only in uninhabited or sparsely populated areas with particular focus on deserts and polar ice fields, between the hours of 3 AM and 6 AM local time.

Agenda Item 1.14 addresses the Earth Exploration-Satellite (passive) Service (EESS passive) in the range 231.5 – 250 GHz. The amateur services have a primary allocation at 248 - 250 GHz, and a secondary allocation at 241 - 248 GHz.

Agenda Item 9.1 will consider and approve the *Report of the Director* of the ITU Radiocommunication Bureau on its activities since WRC-19. This includes a review of the Amateur Service and the Amateur Satellite Service allocations in the frequency band 1.240 - 1.300 MHz to determine if additional measures are required to ensure protection of the radionavigation-satellite (space-to-Earth) service (RNSS) band.

The 1.240 - 1.300 MHz band is allocated worldwide to the Amateur Service on a secondary basis, and the Amateur Satellite Service (Earth-to-space) may operate in the band 1.260 - 1.270 MHz. The primary concern is the potential for interference to the Galileo Global Navigation Satellite System (GPS) in ITU Region 1 (Europe, the Middle East, and Africa). Read [more](#).

Ham Radio Wireless Network Camera Detects Washington Wildfire

Nigel Vander Houwen, K7NVH, reported on September 8 that some [HamWAN](#) users in the Puget Sound region of Washington, who were viewing the network's camera feeds, spotted a large brush fire.

"They reported it to the DNR [Department of Natural Resources], which thanked them for the first report they'd gotten on the fire, and they've sent a team to try and keep it small and under control," Vander Houwen said.



"It's estimated currently at around 50 acres, southeast of Enumclaw, along Highway 410." The fire was not said to be threatening any homes. State Route 410 was reported closed between Enumclaw and Greenwater, and drivers heading to Mount Rainier National Park were advised to take another route.

HamWAN is a nonprofit organization developing best practices for high-speed amateur radio data networks. It runs the Puget Sound Data Ring. So far, HamWAN networks have been used for such applications as low-latency repeater linking (including DMR), real-time video feeds, APRS internet gateways (I-gates), providing redundant internet access to emergency operations centers, and more.



A frame from video via a Ham WAN camera of an air tanker dropping water on the fire.

<https://www.youtube.com/watch?v=MJ1X4VvRFWY>

Amateur radio licensees in the HamWAN service area can connect directly to the network with a modest investment in equipment and no recurring costs. The HamWAN Puget Sound Data Ring has cells deployed at numerous wide-coverage sites, interconnected with 5 GHz radios. The HamWAN technical team has been installing remotely controllable cameras at HamWAN link sites, and one of these was used for the wildfire report.

North American CW Sprint is Great Practice for Fall Contesting

The September edition of the North American CW Sprint, sponsored by *National Contest Journal* ([NCJ](#)), is this weekend. The often-frantic 4-hour event gets under way on Sunday, September 13, at 0000 UTC (Saturday, September 12 in North American time zones). CW Sprints take place

twice a year, in September and February; RTTY Sprints are in March and September.

"The CW Sprint can seem intimidating, particularly the first couple of times with its loud signals and high code speed, but there are some secrets to getting the hang of things," said veteran contester and contest manager Ward Silver, N0AX. A unique feature of the CW Sprint is the "QSY rule," which rewards operating agility as much as signal strength. Larger stations can't sit on a single frequency racking up contacts, and more modest stations can make that work in their favor. "Participation in the year's CW contests has been on the upswing, as people are staying home due to the pandemic," Silver added, noting that the September contest offers some solid practice ahead of the various fall contests, especially [ARRL November Sweepstakes](#).



Silver notes that band conditions during the September Sprint are an incentive for operators to put more emphasis on 20 meters than in the February Sprint, because sunset is much later in September. "We will also be just a week from the equinox, a time when conditions are usually pretty good on 20 and 40 meters," he pointed out. Eighty meters will be less noisy than in mid-summer, and if the thunderstorms take a day off, we can expect coast-to-coast activity." . . .

The QSY rule can be daunting for newcomers. In short, a station calling CQ on a new, clear frequency may work one responding station on that frequency and then must move at least 5 kHz before calling CQ again, and at least 1 kHz before initiating another contact, either by calling CQ or by responding to another station. The responding station inherits the initial frequency.

The exchange is both call signs, a consecutive serial number, name, and state/province/DX. Listening stations can tell which station in a contact to call by listening to call sign placement in the exchange, as Silver describes in "[Conversation: Having Fun in the North American CW Sprint](#)," in the September 2 issue of the [ARRL Contest Update](#). [Read more.](#)

1981 – France officially stops using the guillotine, as the death penalty is abolished.

K1USN Radio Club Announces New Weekly Slow-Speed CW Contest

The K1USN Radio Club in Massachusetts is launching a new weekly, hour-long, slow-speed contest, the [K1USN SST](#). The inaugural session will be on Monday, September 14, from 0000 - 0100 UTC (Sunday, September 13, in North American time zones). K1USN trustee Pi Pugh, K1RV, said the decision to embark on sponsorship of a new operating event involved surveying some 2,000 radio amateurs to gauge their enthusiasm for such an event. Pugh said the club worked with a group of [CWops](#) members within the club, with the blessing of the CWops CW Academy Advisor Group. CWops is not involved in sponsoring the K1USN SST.



The 800 who responded indicated an overwhelming need for some sort of slow-speed activity as a follow-up to CW Academy, Pugh told ARRL. "It was a lot of work, but we hope this will prove to be a valuable tool within the CW community," Pugh said.

Although predicated on the desires of the CW Academy community, Pugh stressed that the weekly activity will be open to all looking to improve their CW skills. It can also provide a more comfortable entry point for those just getting started in CW contesting.

"The weekly 20 WPM or slower SSTs can build confidence to find open frequencies and begin calling CQ," Pugh suggested. Participants are advised to be patient, supportive, and willing to slow down as necessary.

Suggested frequencies are 3.532 - 3.539 on 80 meters; 7.032 - 7.039 MHz on 40 meters, and 14.032 - 14.039 MHz on 20 meters. Stations exchange name and state/province/country. [Read more.](#)

ARLB021 FCC Application Fee Proposal Proceeding is Open for Comments

Comments are being accepted on the Notice of Proposed Rulemaking (NPRM) in MD Docket 20-

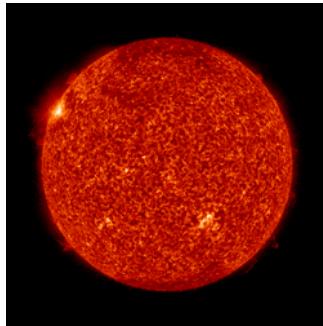
270, which proposes application fees for radio amateurs. Formal deadlines for comments and reply comments will be determined once the NPRM appears in the Federal Register. Comments may be filed now, however, by using the FCC's Electronic Comment Filing System (ECFS), located at, <https://www.fcc.gov/ecfs/filings>, and posting to MD Docket No. 20-270. The docket is already open for accepting comments, even though deadlines have not yet been set.

The NPRM can be found online in PDF format at, <https://docs.fcc.gov/public/attachments/FCC-20-116A1.pdf>. NNNN /EX

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: An extended lull in solar activity persists. The smoothed sunspot minimum occurred last December, but the flurry of moderate sunspot activity in August has not continued.

When the autumnal equinox occurs at 1330 UTC on Tuesday, September 22, we should see a seasonal improvement in HF propagation around that date. This is because the northern and southern hemispheres are bathed in roughly equal solar radiation, enhancing north-south propagation.



Wednesday, September 9, was the 19th consecutive day with no sunspots, but [Spaceweather.com](https://www.spaceweather.com) reported that a small sunspot with a Solar Cycle 25 magnetic signature may be forming in the sun's southeastern quadrant.

Average daily solar flux barely budged, moving from 69.6 to 69.7. Geomagnetic indicators were very quiet, with average daily planetary A index declining from 13.1 to 4.4.

As with last week's forecast, predicted solar flux is 70 on every day over the next 45 days, September 10 - October 24.

Predicted planetary A index is 5 on September 10 - 17; 8 on September 18 - 19; 5 on September 20 - 22; 8, 10, and 15 on September 23 - 25; 10, 25, 15, and 10 on September 26 - 29; 5 on September 30; 8

on October 1; 5 on October 2 - 14; 8 on October 15 - 16; 5 on October 17 - 19, and 8, 10, 15, 10 and 25 on October 20 - 24.

Frank Donovan, W3LPL, forwarded a [video](#) about big solar events of 3 years ago.

Sunspot numbers for September 3 - 9 were 0, 0, 0, 0, 0, 0, and 0, for a mean of 0. The 10.7-centimeter flux was 70, 69.7, 69.2, 69.5, 70.2, 69.9, and 69.7, with a mean of 69.7. Estimated planetary A indices were 4, 8, 6, 4, 4, 4, and 1, with a mean of 4.4. Middle latitude A index was 3, 9, 7, 5, 5, 4, and 1, with a mean of 4.9.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean...", and [check out](#) K9LA's Propagation Page.

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

[Share](#) your reports and observations

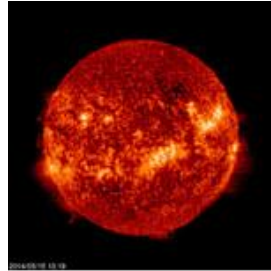
Just Ahead in Radiosports

Sept. 12 – 20 Route 66 OTA,
 Sept. 12 -- Ohio State Parks on the Air (Ph)
 Sept. 12 -- Russian RTTY WW Contest
Sept. 12, 3 - ARRL EME Contest (CW, ph, dig)
 Sept. 12 - 13 -- WAE DX Contest, SSB
 Sept. 12,3 - SARL Field Day Contest (CW, ph, dig)
 Sept. 12 - 13 -- SKCC Weekend Sprintathon (CW)
 Sept. 12 - 13 -- Texas QSO Party (CW, ph, dig)
 Sept. 12 - 13 -- Alabama QSO Party (CW, ph)
 Sept. 12 - 13 -- Russian Cup Digital Contest
Sept. 12, 14 - ARRL Sept. VHF Contest (CW, ph, dig)
Sept. 13 -- North American Sprint (CW)
 Sept. 14 -- 4 States QRP Group 2nd Sunday Sprint (CW, ph)
 Sept. 16 -- RSGB 80-Meter Autumn Series (CW)
 Sept. 17 -- NAQCC CW Sprint
 Sept. 17 -- BCC QSO Party (CW, ph, dig)
 Oct. 3,4 – [CA QSO Party](#) (cw, Ph)
 Sept. 18 -- AGB NEMIGA Contest (CW, ph, dig)
 Oct. 17, 18 – BSA Jamb-O-ree OTA
 Oct 24 – 25 [CQ WW DX contest - SSB](#)

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.

From May of 2014

In case you're bored with recent pictures of the Sun, here's a picture of the Sun from May of 2014. An article above seems to say that it will get more exciting than this for the upcoming cycle 25



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

Tristao 60' 3-section guyed crank up tower
KT-34A 4-section triband beam, 10/15/20 meters
CDE Ham III Rotor
TRK80 Tower Raising Fixture
Telex HyGain V-2 2-meter vertical

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

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

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

Maine Radio Amateur Dies after Fall from Tower

James Larner, N1ATO, of Bangor, Maine, died on Wednesday, September 2, after apparently falling a reported 80 feet from an amateur radio tower in the rural Knox County town of Union. The incident happened just before 1 PM local time. Said to have been a tower professional who had done a lot of work for many Maine broadcasters, Larner, an ARRL member, was 74.

According to news accounts, Larner was disassembling an antenna on a tower located on



Olson Farm Lane. The Knox County Sheriff's Office and Union Fire and Rescue responded, and the rescue squad pronounced Larner dead at the scene. The deceased was equipped with a harness and carabiner, a close friend on the scene told authorities.

Larner worked part-time as an engineer at News Center Maine's outlet in Bangor. A News Center Maine [article](#) paid tribute to Larner. "Jim was a lot of fun, always happy to talk, share a story. A smart, hard-working, real Maine guy," said News Center reporter Don Carrigan. "One of those people the audience never sees, but whose work was critical to them being able to watch TV for many, many years."

The Occupational Safety and Health Administration was contacted and will conduct a follow-up investigation along with the Maine Medical Examiner's office. -- *Thanks to the Bangor Daily News, News Center Maine, the Rockland Courier-Gazette, and to Norman Blake, W1TT*

ARRL Section, State and Division Conventions / Hamfest

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

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

- October 3 -- [Kentucky State Convention](#), Bowling Green, Kentucky
- November 21 -- [Alabama State Convention](#), Montgomery, Alabama
- December 11 - 12 -- [Florida State Convention](#), Plant City, Florida

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

Announcements

The [Citrus Belt Amateur Radio Club](#) will sponsor its **21st "Route 66 on the Air"** special event September 12 - 20, with 21 stations, each with a 1 x 1 call sign -- W6A through W6U -- from cities along the highway. Route 66 is famous in American history as a major highway from the midwest to the west coast and is associated with American car culture as well as with the vintage



Route 66 television program in the early 1960s.

The WA2NYC 9/11 special event commemorates the **World Trade Center attack 19** years ago, when more than 2,900 lost their lives. WA2NYC will be on the air from September 10 until September 14. Operation will center on or near 28.450, 21.350, 14.300, and 7.238. QSL cards are available with an SASE to the club address. Contacts will be uploaded to Logbook of The World (LoTW).

- To celebrate their club's 50th anniversary, members of the Texas DX Society ([TDXS](#)) will operate K5DX/50 September 14 - October 13 on CW, SSB, and FT8 on 1.8 - 28 MHz.
- During September, VE3NOO will operate special event station XM3A to commemorate the 75th anniversary of the United Nations.
- Members of the London [Ontario] Amateur Radio Club (LARC) are using the call sign VE3LON100 through September to mark the centennial of LARC, one of Canada's oldest amateur radio clubs.
- **International Space Station (ISS)** - Radio amateurs and others may listen for ham radio activity from the ISS by monitoring 145.800 MHz.

Select DX News (QRV = Ready! or Are you Ready?)
ARLD037 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.
- **The Rebel DX Group** has postponed its planned DXpedition to Banaba Island and Tuvalu due to the COVID-19 pandemic. Organizers remain hopeful of resuming plans to activate Bouvet Island (3Y0I) late this year. (Announced July 2020 – ed)

MONACO, 3A. Ennio, IW1RBI is QRV as 3A/IW1RBI **until Sept. 13**. Activity is on 80 to 6 meters using SSB, RTTY and FT8. QSL #1

CHILE, CE. Operators Mau, CE7KF, Juan, CE3BN, Roberto, CE3DOH & Esteban, XQ7UP are QRV as XR210CHI **during Sept.** to celebrate Chile's 210th anniversary of independence.

Activity is on the HF bands using SSB and various digital modes. QSL via XQ7UP.

FEDERAL REPUBLIC OF GERMANY, DA. Special call sign DK70DARC is active until the **end of December** to celebrate the 70th anniversary of the Deutscher Amateur Radio Club. QSL via the bureau.

FRANCE, F. Members of the Radio Club Aunis are QRV with special event call sign TM17TDF **until Sept. 15** during the Tour de France. Activity is on the HF bands. QSL via F8FZC.

SAINT BARTHELEMY, FJ. Operators Franck, FG4ST, Marco, FS4WBS and Claude, FS5GL will be QRV as TO0Z **from Sept. 14 to 17**. QSL via IZ1MHY.

SAUDI ARABIA, HZ. Members of the Saudi Amateur Radio Society will be QRV as HZ90ND from **Sept. 17 to 25** to celebrate the 90th anniversary of their National Day of the Unification of the Kingdom of Saudi Arabia. Activity will be on all bands and modes. QSL via operators' instructions.

FAROE ISLANDS, OY. Udo, DL2AQI and Torsten, DL4APJ will be QRV as OY/home calls from Streymoy Island, IOTA EU-018, **from Sept. 15 to 23**. Activity will be on 80 to 10 meters using CW, SSB and various digital modes. QSL #1

SWEDEN, SM. Frank, DH0JAE and Immo, DL8MF are QRV as SM/home calls near Bergudden Lighthouse, ARLHS SWE-091, on Holmon Island, IOTA EU-135, until Sept. 16. Activity is on the HF bands using CW & SSB. QSL #1

DODECANESE, SV5. Claudio, HB9OAU will be QRV as SV5/HB9OAU from Karpathos Island, IOTA EU-001, **from Sept. 12 to 24**. Activity will be holiday style on 80 to 10 meters using SSB and RTTY. QSL #1

UKRAINE, UR. Special event station EN370LL is QRV during **Sept.** to celebrate the 370th anniversary of the town of Liubotyn. QSL#2

CANADA, VE. Members of the London Amateur

Radio Club are QRV with special call sign VE3LON100 until **the end of Sept.** to celebrate the 100th anniversary of the club. QSL #2

AUSTRALIA, VK. Special event station VI75WW2 is QRV **until November 11** to commemorate the end of World War II. QSL #2

INDONESIA, YB. Special event station 8A387KRW is QRV until **Sept. 14** to celebrate the 387th anniversary of the Karawang District. Activity is on 80, 40, 20, 15 and 2 meters using CW, SSB and FT8. In addition, members of the Orari Lokal Kabupaten Sukabumi club are QRV as 8A150SMI until Sept. 13 to celebrate the 150th anniversary of the city of Sukabumi. QSL #2

ALBANIA, ZA. Franz, OE6TQG is QRV as ZA/OE6TQG from Lake Shkodral **until Sept. 17.** Activity is on the HF bands using all modes. QSL to home call.

MALTA, 9H. Reiner, DL2AAZ is QRV as 9H3TI from Gozo, IOTA EU-023, until **Sept. 18.** Activity is holiday style on 40 to 6M using CW and SSB. He is also active as 9H3SAT on Satellite QO-100 using CW and SSB. QSL to home call.

QATAR, A7. Station A71SDC is QRV until **Sept. 13** to join the Spanish celebrations of Asturias. QSL via EA1AUM.

SPAIN, EA. Members of Cartagena Team will be QRV as AO5CLE from Cartagena from **Sept. 5 to 20** to commemorate the 100th anniversary of the Spanish Legion. Activity will be on various HF and VHF bands using CW, SSB, FT8 and other digital modes. QSL via bureau.

FRANCE, F. Special call sign TM5SF will be QRV from **Sept. 5 to 19** for the 51st edition of the Solitaire du Figaro multi-stage sailing race. QSL via F8KGS.

ENGLAND, G. Members of the RAF Amateur Radio Society are QRV w/special call GB80BOB **until Sept. 28** to commemorate the 80th anniversary of the Battle of Britain. QSL direct to 2E0NDZ.

LITHUANIA, LY. Special event station LY784A is QRV **during Sept.** to celebrate the 784th

anniversary of the city of Siauliai. QSL via LY5A.

ARUBA, P4. Members of the Aruba Amateur Radio Club are QRV as P42WW until **Sept. 30** to commemorate the 75th anniversary of the end of World War II. QSL #2

NETHERLANDS, PA. Special event station PD538RNI is QRV until **Sept. 30** to commemorate Radio Northsea International and Radio Veronica. QSL via PD0ARI.

GREECE, SV. Special event station SX300ML will be QRV from **Sept. 5 to 19** to commemorate the Battle of Thermopylae. QSL direct to SV2GWY.

EUROPEAN RUSSIA, UA. Special event station R450STAR is active **during Sept.** to commemorate the 450th anniversary of Starocherkasskaya. In addition, special event station R450AKSU is QRV **during Sept.** to celebrate the founding of Aksaysskaya, now known as Aksay City. QSL via RM6LW.

CHATHAM ISLANDS, ZL7. Operators Chris, ZL2DX and Catherine, ZL2QT are QRV as ZL7DX and ZL7QT, respectively, from Waitangi, IOTA OC-038, **for the next few years (listed July 2020 – ed).** Activity is on the HF bands and 6M EME. QSL via M0OXO.

CORSICA, TK. Frans, DJ0TP is QRV as TK/DJ0TP until **Sept. 14.** Activity is holiday style on the HF bands. QSL #1

BARBADOS, 8P. Mathieu, VA2MVR is QRV as 8P9QC from Pine Gardens until **Sept. 12.** Activity is mainly on 40 and 20M using SSB with a possibility of FT8 & FT4. QSL via LoTW.

GHANA, 9G. Matteo, IZ4YGS will be QRV as 9G5GS from August 8 to **Sept. 15.** Activity will be on the HF bands using mostly SSB & FT8, and on Satellite QO-100. QSL #1.

GHANA, 9G. Matteo, IZ4YGS will be active as 9G5GS from Sanzule, **until Sept. 15.** Activity will be limited to his spare time on 160 to 10M using mostly FT8 (F/H) and SSB. He will also be active through the QO-100 geosta-

tionary satellite, USB mode. He will update daily to ClubLog. QSL #4 or #6 or IZ4YGS direct.

CHILE, CB33. Members of the Radio Club Eternautas (CE3ETR) are now active as CB33M **until October 13**. Activity is to commemorate the 10th anniversary of the August 2010 landslide in a mine in the north part of Chile where 33 miners were trapped for 3 months until their rescue was carried out. Operations will be on 80 meters through 70 cm using CW, SSB and digital modes FT8/FT4, JS8, RTTY, PSK31 and SSTV. QSL via PO BOX 12096, Santiago, Chile.

OGASAWARA, JD1. Makoto, JI5RPT will be active as JD1BLY from Chichijima Island (AS-031) from **October 3 to 6**. The schedule may change depending on the status of COVID-19. Activity will be on 630 to 6M using CW, SSB and the digital modes (No 6 meter EME). He will focus on the 630M band, 160 meter SSB, the RS-44 satellite & FT8 on the HF bands. 630 meter activity will be mainly on JT9. QSL #1

DENMARK, OZ. OZ200EM is on the air until the **end of the year (2020 – ed)**, honoring the memory of Hans Christian Orsted, who discovered the principle of electromagnetism 200 years ago. QSL via OZ1ACB.

CHATHAM ISLANDS, ZL7. Stuart, ZL3STU has moved to Canterbury on the Chatham Islands (OC-038) & uses call ZL7STU on 80 to 6M using SSB and FT8. (**Listed July 2020 – ed**) QSL for both calls via M0OXO.

BONAIRE, PJ4. PJ4TEN is a special event station **during October** for the 10th anniversary of 10-10-10, the date the Netherlands Antilles was dissolved and Bonaire became a special municipality of the Netherlands and a new DXCC entity. QSL via M0URX direct, OQRS, or LoTW.

GREECE, SV. SV1AHH and SV1GGF will be QRV as SX1AFM from **Sept. 1 to 30**, celebrating the 70 years of the Hellenic Air Force History Museum, on 80 to 6 using all modes. QSL #7

GHANA, 9G. Matteo, IZ4YGS travels to Ghana on July 24. After quarantine he will be at his station starting **August 8** and continuing **until mid-Sept.** as 9G5GS. QSL via OQRS, LoTW, eQSL or direct to the IZ4YGS address.

MALTA, 9H. Reiner, DL2AAZ plans to be QRV from **Sept. 4 to 18**, holiday style, if there are no COVID-19 concerns. Call signs 9H3TI & 9H3SAT have been requested. He will be QRV on 40 to 6M and 13/3cm on the QO-100 satellite, using SSB and CW. QSL via the Bureau, no Club Log or LoTW.

FAROE ISLANDS, OY. Torsten, OY/DL4APJ and Udo, OY/DL2AQI will be QRV **Sept. 15 to 23**, holiday style on 80 to 10M, using CW, SSB, RTTY, PSK and FT8. QSL #1, or via the DARC bureau, eQSL or LoTW.

SVALBARD, JW. Erwann, LB1QI will be active as JW/LB1QI from the JW5E club station in Loneyarben from **Sept. 24 to 27**. Activity will be on 160 to 6 meters using CW and SSB. QSL #1, #3, #4 or #8.

KOSOVO, Z6. German team Z66DX will be QRV from **October 15 to 28**, on 160 to 10 meters, including the newer bands. Look for them using CW, SSB, RTTY and FT8. Operators are DJ9KH, DL2AMD, DL2AWG, DL3APO, DL9GFB and DM2AUJ. QSL through Club Log OQRS for direct or bureau. And then LoTW upload.

THE NETHERLANDS, PA75. Special event station PA75WSN will be active until the **end of the year [2020 – ed]** to commemorate the 75th anniversary of the liberation of The Netherlands in World War II. Activity will be on various HF and UHF bands using SSB & Dig. Modes. QSL via the Bureau or direct. See QRZ.com for details.

Long Term: (longer than 1 month)

GUATEMALA, TG9. Dwight, VE7BV plans to be active as TG9BBV from **November 1 to 30**. Activity will be holiday style on most bands using mostly CW with some SSB and FT8. QSL via VE7BV, direct, by the Bureau or LoTW.

HUNGARY, HA. Members of the Hungarian FIRAC are QRV with special event call sign HA70MAV from Budapest **until December 1** (2020-ed) to celebrate the 70th anniversary of the Hungarian Railway. Activity is on various HF bands. QSL via LoTW or eQSL..

MEXICO, XE. Ramon, XE1KK is QRV with special call 6E6E until the **end of 2020**. Activity is on 160 to 6 meters using mostly FT8 & FT4. This includes being active on the upcoming CQ World Wide DX Phone contest. QSL via LoTW.

MEXICO, XE. Members of the Radio Club de Radio Aficionados Hidrocalidos are QRV with special event call 4A50CRH **until the end of 2020** to celebrate the club's 50th anniversary. Activity is on 160 to 6 meters using CW, SSB, FM and digital modes. This includes some Satellite activity as well. QSL via XE2AU.

ANTARCTICA. Station KC4USV located at the McMurdo Station, IOTA AN-011, has been QRV on 20 meters using SSB. [**Listed June 2020-ed**] QSL via K7MT.

Until the End of 2020

NORWAY, LN1. The Norwegian National Guard's Radio Amateur Club (LA1V) is QRV as LN1V **during all of 2020** to mark the 75th anniversary of the liberation of Norway at the end of World War II. Operations will be on 160 meters to 70 cm (including 60 and 4 meters) using CW, SSB and digital modes. QSL via LA4LN, either direct or via the Bureau, but no electronic QSLs.

NETHERLANDS, PA. Special event station PI75VERON is QRV until the **end of 2020** to celebrate the 75th anniversary of the Dutch National Club VERON. QSL via PA1AW.

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 #3.

A year-long special event will honor Beethoven. German special event station [DL250BTHVN](#) will be active **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 #1 or #3.

Until 2021

ANTARCTICA, RI1. Alexander, RX3ABI will be active as RI1ANM from the Russian Mirny Station in Queen Mary Land, (AN-016), on the coast

of the Davis Sea, **until early 2021**. Activity will be on HF bands during his spare time. QSL#1

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

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

NICARAGUA, YN. Trevis, YN7ZTR is a missionary working in Gaunacastillo for the next two years. He is active in his spare time. [listed in 2020-June-ed] QSL via LoTW.

LAOS, XW. Mike, XW2DX is QRV from Vientiane and is here for the next 5 years. [Listed August 2020-ed] Activity is on 20, 15 and 10 meters. QSL via RM0L.

Beacons:

SAUDIA ARABIA, HZ. The Saudi Amateur Radio Society's, HZ1DG is a new 6M beacon, transmitting on 50.055 MHz and using 5 watts into a vertical antenna. The grid locator is LK18gf.

Notes:

1. QSL direct to home call.
2. QSL via operators' instructions.
3. QSL via bureau
4. QSL via LoTW
5. QSL via Instruction on QRZ.com
6. QSL via eQSL
7. QSL via QRZ.com
8. QSL via ClubLog

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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 =	<u>\$0.50</u>	
	Food Total:	\$ 45.25
Income: Lunch:	\$108.75	\$154.00
Room Rent-To General Funds:	<u>\$00.00</u>	<u>\$154.00</u>
	Starting - Kitty for Mar 17, 2019 Mtg:	\$154.00
	<u>[Gain of \$3.25 - \$20.00 for room rent = Loss of 16.75]</u>	

When one door closes and another door opens, you are probably in prison.

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) [inactive - Covid-19-ed]

ARRL Announces Free Exam Review Website

The ARRL has launched a web site that allows users to take randomly generated practice exams using questions from the actual examination question pool. [ARRL Exam Review for Ham Radio™](#) is *free*, and users do *not* need to be ARRL members. The only requirement is that users must first set up a site login (this is a different and separate login from your ARRL website user registration).

Other Free Practice Exam Sites:

<http://aa9pw.com/radio/technician/>

<http://www.eham.net/exams/>

This Practice Exam site Requires Registration

<https://www.qrz.com/hamtest/>

ARRL LAX Section Officers:

Section Manager: Diana Feinberg, AI6DF

PO Box 4678

Palos Verdes Peninsula. Ca 90274-9618

AI6DF@arrl.org or 310-544-2917

Asst. Section Manager: Mark Chung, KK6SMD

mchung@prodigy.net

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 & 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, 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)

2020 – Brian, AB6UI (President Elect)

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:

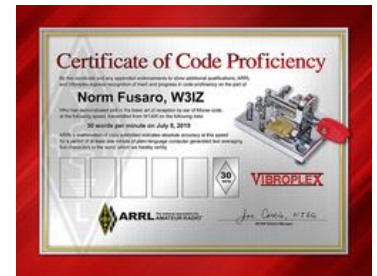
- CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 & 15 WPM
- CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 & 10 WPM
- CWb = Morse Code Bulletins = 18 WPM

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 July. & Aug.- 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
Sept	9/15		9/17	9/16		9/18		9/21	9/23	9/24	9/25		
Oct.		10/5	10/6	10/8	10/9	10/13	10/14		10/15				10/16
Oct.	10/20		10/22	10/21		10/23		10/26	10/28	10/29	10/30		



West Coast Qualifying Runs:

Sat. Sept 26 @ 2 PM PDT (2100 UTC) on 3581.5, 7047.5, 14047.5 & 18097.5 kHz by K6KPH 10 – 35 WPM
 Wed. Oct. 28 @ 6 PM HST (0400 UTC, Oct. 29) on 7047.5 & 14047.5 kHz by KH6TU, 10 – 40 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 is **7114 KHz**. It's a safe haven for CW newcomers. Elmers are encouraged to monitor the frequency and work the CW beginners, some of whom may have had a license for many years.

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

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

Committees:

NEWSLETTER EDITOR:	Dale, WB6MMQ	W6HA_Editor at W6HA.com
QUARTERMASTER:		
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:		W6HA at W6HA
FoTL Conf. Rm. Coor:	Judi, KI6TKT	
FIELD DAY :	Mike, N6MDV, Brian, AB6UI	FieldDay at W6HA.com
MEMBERSHIP:	Dale, WB6MMQ	W6HA at W6HA.com
NET COORDINATOR:	Howard, KE6MAK	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 Coordinators:

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

HARC Repeater Nets: **Wednesdays, 7:30 PM (0200 UTC Thursdays)** (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 Tuesday of the month, 7:00 PM

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

Club Shack: The club shack is in E1, Lobby D. There is a Kenwood TS-520 HF radio connected to an 40 –10 meter antenna. This station is open to all club members. (I would be happy to give a tour of the HF station in "Lobby D" to club members. Brian, AB6UI, Station Manager)

Club Newsletter: If you have items that would be of interest to the club, any comments, letters, or items for sale or trade please email it to Dale, WB6MMQ W6HA_Editor (at) W6HA.com. If anyone needs a club application, please contact Dale, WB6MMQ and one will be sent to you.

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

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

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.
