



The Transponder



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

April 15, 2022

Repeater 445.620 – PL 127.3

Website: W6HA.org

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***** CLUB MEETING In-Person *****

Where: El Segundo Library, FoTL Conference Room & via Zoom

Location: Zoom: Meeting ID: 817 1297 4188
Passcode: 160795

Meeting Notice: Date: Tuesday, April 19th, 2022

Time: Pre-Meeting: 11:30 Gather, Exchange Greetings
Meeting Call to Order: 12 to 1 PM (Zoom Audio on Repeater)

Featured Presentation: Planning

- I. Open nominations from the Floor for May Officers Election
- II. SAMO100 Plans
- III. Field Day
- IV. Presentation of new LOGOs

Up Coming Events:

May 13, 14 – SAMO100 – [Santa Monica Mountains 100 Mile Foot Race](#) – Article Page 4

June 24, 25, 26 - Field Day – Last full weekend in June – **Wilderness Park Redondo Beach**

Nov. '22 - **Spruce Goose (H-4 Hercules) Special Event** (75th Anniversary of Flight, Article, Page 2)

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Lunch: Pizza: 1 Large Veggie; 1 Lrg Pepperoni; 1 Lrg Special; 1 Lrg Sausage, (\$3.50/slice)
Prices: 2 slices of Pizza w/salad, \$8.00; 1 slice of pizza w/salad \$5.00; Salad only \$4.00
Sodas: Coke, Coke Zero & Ginger Ale (\$1.00) - Water (50 cents) Next Month

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

Wednesday Evenings at 7:30 PM – Hughes ARC net, (then Simplex @ 146.550), then Digital

Thursdays Noon (12:05 PM) Emergency Communication Teams (ECT)

Week day Mornings 7:55 to 8:15 AEA ARCs (Aerospace) (AARC) Emergency Preparedness net (Temp)

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

Club News: Elections are coming in May

The Nominating Committee, whose purpose is to see that there is at least one willing person to execute the duties of each elected office, has determined that the current officers are all willing to run for the office that they currently hold, for another term. That Slate is presented below. But you, the members, have the last word.

Elected Office	Slate for 2022 - 23
	Nominees
<u>President</u>	Brian Johnson
<u>Vice President</u>	Howard Karse
<u>Secretary</u>	Dale Birmingham
<u>Treasurer</u>	Paul Geisel
<u>Station Manager</u>	Michael Darling
Available Past Pres.	Dale Birmingham

Nominations "From-The-Floor:" At the April regular meeting Nominations will be opened up "from-the-Floor." Members may nominate any other member that is in "Good Standing" (Dues Paid) that has agreed to execute the duties of that office. Self-Nomination is permitted.

Voting: The By-Laws say that only members "present" at the meeting may vote and also that a Quorum for voting is 25% of the membership or currently, 15 members present. It also states "No proxies." However, during the pandemic, In-Person meeting were NOT allowed and the Board made other arrangement which were executed without objection from the membership. The pandemic seems to be subsiding. If any office is contested, the Board will have to decide who is considered "Present" and if requested, how a secret ballot is conducted. If there are no additional nominations, the issue is moot.

2022 Field Day - W6HA – June Pine Campground at Redondo Beach's

Wilderness Park is indeed secured according to our Field Day Chairman and President, Brian, AB6UI. Activity, usually starts the Thursday before the weekend, to bring our 55 foot portable tower to the park, shortly before it closes on Thursday afternoon, 4:00 PM to avoid other park visitors. We would be legal by FD rules after 4:00 PM (0000 UTC Friday). The idea is to do this

when there is a minimal number of visitors at the park for safety reasons. The more important FD rule is that you may use only 24 of the 42 hours before the start to setup. So after the Portable Tower is moved to the pad in Pine Campground and secured, we do nothing more until Friday morning, 14 or 15 hours later. Then we setup during the day on Friday, but knock-off about 7 or 8 PM (~12 Hrs). There are usually some last minute things to do Saturday morning starting at 8:00 am and the Operating period (some say contest period) begins at 11:00 AM (1800z), so 3 more hours on Saturday morning, for a total setup time of ~ 18 Hours.

Station Captains: Some board members tentatively have taken some Station Captain positions. But, if this is a desirement of yours, let us know. Our usual set of stations is:

1. 80/15 meter station in MMQs Big Blue tent – Dale, WB6MMQ Captain, "but, at 77 years young, I'll need help, setting up and operating."
2. 20 Meters, Richard, KM6FP;
3. 40/10 Meters is 'Up for grabs' and 10 meters is starting to pick up. Check the solar report.
4. VHF, Howard, KE6MAK, has tentatively said he will organize VHF, but is open to letting someone else have it so he can help me at the 80/15 meter station which I am very happy to share.
5. GOTA Station, needs a coach.
6. Logging Computers and network
7. Information / Talk-in Table offers public contact with other campers at Wilderness Park.
8. Safety Officer – Phil, N6PNJ has volunteered
9. Food coordinator – this can be simply ordering pizza or sandwiches, perhaps a 'Foot Long' to planning a Saturday evening meal.

Setup tasks on Friday are:

1. Assembling the tri-band beam and mounting it on the tower;
2. Running power cords to the generator in the maintenance yard.
3. Running the E-Net cables for the logging computers,
4. And setting up tents, EZe-Ups and moving tables and chairs & lights into position.

The key is: " Lots of hands make short work." So, if operating the contest portion, is not your thing, there is lots of FUN to be had and stuff to be learned during setup – and, of course, we are almost 'Famous' for tearing it all down by 4PM Sunday afternoon, by the time the park closes, at 4 PM. We're usually out by

3PM, sometimes earlier, and on our way home. But this “Decamping” needs plenty of hands.

So NOW it's time to start making specific plans for [Field Day 2022, June 25-26, 2022, \(actually 24, 25, 26\)](#) always the last full weekend in June.” .

Dale, WB6MMQ
Secretary et al, Hughes ARC

In-Person Meetings - In April once again an In-Person Meeting. Masks are optional. We will be back in the **“Friends Of The Library (FoTL) Conference Room.** -The meeting will also be on Zoom, from the library, for those who are uncomfortable attending ‘In-Person,’ because of Covid-19, Omicron, or the latest variant, a long drive from the valley, or just didn’t feel like getting out of their PJs.

Meeting Room Host Dale, WB6MMQ

LOGO Contest - We have started a W6HA logo contest. We have been talking about this for several weeks on the weekly net but I wanted to firm up the contest rules:

- The logo will be used on the club web page and on official correspondence, stationary, QSL cards, etc.
- It should reflect on the legacy of Howard Hughes and his contributions and some of our club’s contributions to furthering the art of ham radio.
- Submissions should be made no later than April 18, 2022 and the winner will be announced at the TBD club meeting.
- The board members will review the entries and choose the best logo.

A Tri-Band HT for the winner - AB6UI

LOGOs submitted by an officer:



LOGO Makers – On-Line-Free

Don’t think you can make a LOGO, Try one or two of these five “Free” sites.

www.WIX.com

Free Logo Maker - Promote

Your Brand with a Logo

Create a Logo Instantly - Logo Maker Free

The Best Free Logo Maker -

Create a Unique Logo | Looka

Free Logo Maker: Design

Custom Logos | Adobe Express

[Free Logo Design](#)



New Club Members in March

The following are two new Associate members of the club:

- Michael Zeitlin
- Sean Dowden

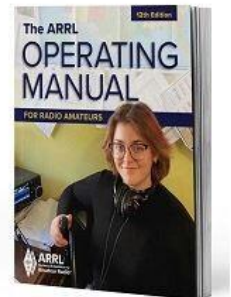
Welcome and 73 de W6HA

Door Prize – March Meeting

A door prize was given for a Technician members attending the first In-Person meeting in the New Year.

Three technicians attended the March meeting. To win they had to guess the number of fingers I was holding behind my back. Phil, N6PNJ, guessed the correct number, TWO, and so he WON.

The prize was the thirteenth edition of the ARRL Operating Manual.



Congratulations Phil, N6PNJ.

THE SAMO100 – May 13th

There is a new ultimate race in the Santa Monica Mountains, “The SAMO100.” It is the first ever 100 mile foot race in the Santa Monica Mountains. It will be run from Pt Mugu’s Ray Miller Trail Head at La Jolla campground, through Yerba Buena’s Mishe Moakwa Trail Head, across the Zuma Transcas Ridge and Canyon to a trail head on Kanan-Dume Road which is the turnaround, at 50 miles. It then retraces its path back to the Start at La Jolla campground.

The Hughes ARC is coordinating Health and Welfare Communications between the Aid Stations, Start-Finish and the Race Director. The

aid stations are separated by as much as 10 miles, so each runner is accounted for at each aid station.

I can hear your question, “How long does it take to run a 100 mile foot race. The short answer: 30 hours. It starts at 5 am Friday morning and ends at 11 am Saturday morning. **BUT FEAR NOT!** Very few assignments are for the 30 hours duration and those are spoken for. But we do need some HELP.

There are three (3) types of assignments available:

1. Second Man – Three aid stations need a 2nd ham. These are near the turnaround and set up about 8 to 10 am Friday morning and operate until about 8 to 11 PM Friday evening, depending on if they are before or after the turnaround. These aid stations are all in the Zuma Trancas – Kanan-Dume area.
2. Shift Relief – There are two hams working a 30 hour shift which they volunteered for. But one gets pretty punchy working 30 hours with no relief. So there are two positions for relief persons to come in for 6, or so hours, allowing said hams to take care of creature comforts and perhaps turn off their radios and close their eyes for a bit. Time is variable, per your availability, but would be most useful about 12 hours into the race. So about Friday evening at 5 PM to 10 or 11 PM Friday night.
3. NCS Relief.- Net control will be housed in an RV, so better than the average digs for most aid stations. There will be a refrigerator, stove, coffee and beds. Nice beds, but bring your own pillow and sleeping bag, or a blanket may be good enough in May.

So NCS is divided into three (3) shifts:

- A. Fri., 5 am to 9 PM - Covered
- B. Fri. 9 PM to Sat. 3 am - **Op NEEDED**
- C. Sat. 3 am to 11 am. - Covered

The ‘B’ shift operator is welcome to arrive an hour (or more) before his shift, to pick up on how the operation is going and then, after his shift is over, at 3 am, to occupy one of the beds for few hours before driving home. The A & C shifts operator is the same person and is planning to sleep for 6 hours, or so, in the RV. If the weather is pleasant,

the actual NCS position may be under an EZE-Up outside the RV.

So, if you would like to support and witness the first ever 100 mile foot race in the Santa Monica Mountains, send an email, call or text to Dale..

73 Dale WB6MMQ

Race Coordinator, Hughes ARC

DGBirmingham@gmail.com

213-285-9407 – takes no msg, but Text works fine.

310-641-8403(h) – Screened, so leave a message

Nonprofit Status

April: The wheels of government turned again this last month, and the **FTC** accepted our request for Nonprofit status. We are now a nonprofit by the Secretary of State of California, the IRS, and the California Franchise Tax Board.

So the formation of our Nonprofit Public Benefit Corporation is completed.

An application for “Amazon Smile” is in progress.

Going forward, there is only one thing for the Secretary and two things for the Treasurer to do to maintain our corporate nonprofit status:

1. Every two years, the Secretary files the SI-100 informing the SOS of whom the officers are and that the club still functions. If an election changes the officers, (mainly the President, Secretary or Treasurer) an interim SI-100 is filed. *(BTW – this is also required by the bank and desired by the ARRL to maintain our affiliation.)* The time for this filing is from July 1st to November 30th, in odd numbered years, since we formed in 2021.

2. Every year the Treasurer files two forms, electronically. The IRS Form 990-EZ and the Franchise Tax Board form FTB 199N. The main item on these forms is the gross receipts of the Corporation over the last year which the Treasurer needs to know anyway. So just fill in the blank, and click send.

The Nonprofit committee has accomplished its task and is now dissolved. A Mighty Thank You for the efforts put forth to accomplish this task!

Dale, WB6MMQ

Chair Nonprofit committee

License Exams - On Again! - TRW Swap Meet – 3/26/22

Exactly, two years ago the TRW Swap Meet and license exams there, in the Northrop-Grumman cafeteria, were shut down due to the Covid-19

pandemic. The swap meet has been back on for several months now but a new lead was required to coordinate the Amateur Radio License exams for Technician, General and Extra Class licenses.

So, on the last Saturday of March, 3/26/22 at 10:00 AM, VE testing began again. It was a good VE session: 5 applicants, 3 new Techs, and 1 upgrade to General. Thank you to the inaugural team.

Betty says, "If you would like to join the VE team, please contact me at N6VZF@arrl.net," and she'll put you on the VE testing roster. If you want to become a VE, she'll tell you how.

Betty, N6VZF
N6VZF@arrl.net
VE Liaison for SBARC

QST de W1AW - April 5, 2022 ARLB011 New FCC Application Fee Will Not Apply to Amateur Radio License Upgrades

The Federal Communications Commission (FCC) staff has clarified in response to an ARRL request that the new \$35 application fee will not apply to most license modifications, including those to upgrade amateur radio licensee's operator class and changes to club station trustees. The FCC staff explained that the new fees will apply only to applications for a new license, renewal, rule waiver, or a new vanity call sign. The new fees take effect on April 19, 2022.

"We are pleased that the FCC will not charge licensees the FCC application fee for license upgrade applications," said ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM. "While applicants for a new license will need to pay the \$35 FCC application fee, there will be no FCC charge for future upgrades and administrative updates, such as a change of mailing or email address. Most current licensees, therefore, will not be charged the new FCC application fee until they renew their license or apply for a new vanity call sign."

ARRL previously reported that the new \$35 application fee for amateur radio licenses will become effective on April 19, 2022. Further information and instructions about the FCC Application Fee are available from the ARRL VEC page at <https://www.arrl.org/fcc-application-fee>

Ukrainian Hams vs Goliath

Radio amateurs in Ukraine may be silent and out-gunned, but this is not stopping them from helping outwit intruders during an emergency. Russia had amassed a 40-mile mechanized column to mount an overwhelming attack on Kyiv from the north. But the convoy of armored vehicles and supply trucks ground to a halt within days, and the offensive failed, in significant part because of a series of night ambushes carried out by a small team of Ukrainian special forces and drone operators on quad bikes, according to a Ukrainian commander.

The drone operators were drawn from an air reconnaissance unit, Aerorozvidka, which began eight years ago as a group of volunteer radio hobbyists designing their own machines and has evolved into an essential element in Ukraine's successful David-and-Goliath resistance. While Ukraine's western backers have supplied thousands of anti-tank and anti-aircraft missiles and other military equipment, Aerorozvidka uses crowd funding and a network of personal contacts to keep going, by getting hold of components such as modems and thermal imaging cameras. The unit's commander gave an account of the ambush near the town of Ivankiv that helped stop the vast, lumbering Russian offensive in its tracks. He said the Ukrainian fighters on quad bikes were able to approach the advancing Russian column at night by riding through the forest on either side of the road leading south towards Kyiv from the direction of Chernobyl.

The hams had night vision goggles, sniper rifles, remotely detonated mines, drones equipped with thermal imaging cameras and others capable of dropping small 1.5kg bombs. "This one little unit in the night destroyed two or three vehicles at the head of this convoy, and after that it was stuck. They stayed there two more nights, and [destroyed] many vehicles." The Russians broke the column into smaller units to try to make headway towards the Ukrainian capital, but the same assault team was able to mount an attack on its supply depot, crippling the Russians' capacity to advance. "The first echelon of the Russian force was stuck without heat, without oil, without bombs and without gas. And it all happened because of the work of a few dozen radio hobbyists. The Aerorozvidka unit also claims to have helped defeat a Russian airborne attack on Hostomel

airport, just northwest of Kyiv, in the first days of the war, using drones to locate, target and shell about 200 Russian paratroopers concealed at one end of the airfield. US defense officials said that Ukrainian attacks contributed to the halting of the armored column around Ivankiv. The huge amount of aerial combat footage published underlines the importance of drones to their resistance. The unit was started by young college educated Ukrainian hobbyists who had been part of the 2014 Maidan uprising and volunteered to use their technical skills in the resistance against the first Russian invasion in Crimea and the Donbas region. Its founder, Volodymyr Kochetkov-Sukach, was an investment banker who was killed in action in 2015 in Donbas – a reminder of the high risks involved. The Russians can latch on to the drone’s electronic signature and quickly strike with mortars, so the Aerorozvidka teams have to launch and run. In its early days, the unit used commercial surveillance drones, but its team of RF engineers, SW programmers and drone enthusiasts later developed their own designs. They built a range of surveillance drones, as well as large 1.5-meter eight-rotor machines capable of dropping bombs and rocket-propelled anti-tank grenades, and created a system called Delta, a network of sensors along the front lines that fed into a digital map so commanders could see enemy movements as they happened. These technological battles, and Aerorozvidka’s way of fighting, appear to be the future of warfare, in which swarms of small teams networked together by mutual trust and advanced communications can overwhelm a bigger and more heavily armed adversary.

Re-Printed: Collins Amateur Radio Club
Editor/Author: George Cooley NG7A

ARRL Letter - Excerpts of Possible Interest
Amateur Radio Helps Rescue Injured California Outdoorsman

A relaxing weekend of camping and fishing did not go as planned last Friday when a member of a California outdoors club fell and broke his hip. The Old Goats Mountain Club (OGMC) had worked their way along an old Forest Service Road into a rugged, off grid location in the foothills of the Cascade Mountains.

Dave Johnson, KL7DJ, said his friend slipped and

fell while trying [to] reel in a catch. The injury was so severe that the man could not be moved safely with a trip that could take at least 2 hours over the rough terrain.

Johnson is the only licensed amateur radio operator in the group and using [the California Amateur Linking Radio Association \(CARLA\)](#) system, he was able to call for emergency help from his vehicle. Greg Stamback, KD6VEN, located in the San Francisco Bay area responded and contacted the Shasta County EMS which dispatched a [REACH 5](#) rescue helicopter from their base in Redding, California.



REACH 5 helicopter ready to transport with injured outdoorsman on board. [Dave Johnson, KL7DJ, photo]

The entire rescue took about 1 hour and before the helicopter landed a local ambulance company arrived and was able to stabilize the injured camper. After surgery and 3 days in the hospital he is now at home recovering.

Johnson's wife Linda, KL7ISN, helped coordinate getting their friend's vehicle back to Redding. Using pre-planned contact schedules for Friday and Saturday and, after several makeshift auto-patches, the car was driven to a nearby highway where two other club members were able to take the car safely back home.

But the weekend was not over for amateur radio help. While the rest of the group was making their way out of the mountains on Sunday they were flagged down by a stranded motorist. His car's gas tank had been punctured and his cell phone would not work. He was taken to a small community along the way where there was a landline, and he was able to call for help from AAA.

Johnson said the motorist was thankful for the help and another member of the OGMC suggested the motorist might want to consider getting an amateur radio license.

While waiting for a tow truck to arrive, Johnson and a couple of OGMC members talked about amateur radio and how it had helped over the last few days. One member suggested maybe even he should have a transceiver installed in his vehicle.

Johnson plans to make sure his friend and the motorist, get a complete demonstration.

WRTC 2022 Special Event Station Award Begins New Cycle New-mar 17

World Radiosport Team Championship 2022 (WRTC 2022)

special event stations have been on the air to call attention to the international competition, now



set to take place in July 2023. Stations that already worked toward the [WRTC 2022 Award](#) in January and February may be contacted again. Stations need 50 points for the award. The point structure is 5 for CW contacts, 10 for SSB contacts, 12 for RTTY contacts, and 17 for FT8 (or mixed). Points accumulate each month. Your [March score](#) will be added to your February and January scores. Register and log in to <https://hamaward.cloud> and select "WRTC2022 Award" to access your score page and logbook. The WRTC 2022 Award organizers are asking participants not to send or email QSL cards. Further information will show up on the hunters' website.

Special call signs are active during this event. More than 100 Italian radio amateurs will activate special WRTC call signs, one for each Italian call district, concluding on July 10, 2022. A [first-time award](#) promoting WRTC 2022 will be available. Look for these call signs to be active during some contests, concluding with the 2022 [IARU HF World Championship](#). Each participant's contact totals and award-hunter scores will be displayed on a [real-time leaderboard](#). Participants can download the award in digital format. -- *Thanks to The ARRL Contest Update*

Some New Rules Going into Effect this Year for ARRL Field Day [repeated]

After taking a few detours over the past couple of years due to the COVID-19 pandemic, [ARRL Field Day](#) rules are being updated on a permanent basis starting this summer. ARRL



conducted a Field Day community survey with invitations propagated far and wide, and direct emails sent to more than 15,000 individuals and

ARRL-affiliated clubs. After sorting through, reviewing, and discussing the survey results, the ARRL Programs and Services Committee recommended a number of rule changes for ARRL Field Day, which will take place this year over the **June 25 - 26 weekend**.

Starting this year, the maximum PEP output for a transmitter used by anyone submitting a Field Day log will be 100 W. The power multiplier of 2 will remain in place, and the high-power category will be removed from the rules. Until this year, the maximum low-power limit had been 150 W for most ARRL-sponsored operating events. The power multiplier will remain at 5 for QRP participants running a maximum of 5 W or less. As previously announced, 100 W is now the low-power category limit for all ARRL and IARU HF Contests, effective January 1, 2022.

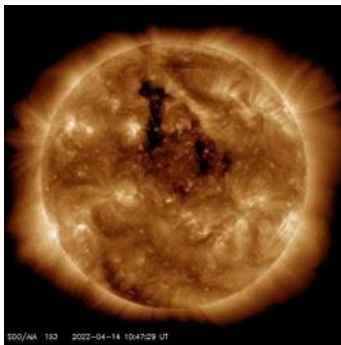
A couple of changes instituted initially as accommodations for the COVID-19 pandemic will remain. Class D (Home) stations will continue to be able to earn points for contacts with other Class D stations. The club aggregate scoring change initiated in 2020, will become part of the permanent rules. In this aggregate scoring plan, the scores of individual stations are combined under the score of a single club.

Another change, involving Rule 7.3.2 Media Publicity, has been modified. Rules to date have offered 100 bonus points for attempting to obtain publicity and demonstrating same. With the ease of posting via Facebook, Twitter, Instagram, and various other media websites, Field Day participants will now be required to obtain publicity, not just try to do so. Any combination of bona fide media hits would qualify for the bonus points. For example, posting the details of your upcoming or ongoing Field Day activity, or your Field Day results, on a club or news media site, on Facebook, or via Twitter and Instagram would meet the bonus criteria. Photos and videos are encouraged as part of media posts.

The K7RA Solar Update

Tad Cook, K7RA, Seattle, Washington, reports: At 0010 UTC on April 14, the Australian Space Forecast Centre issued a Geomagnetic Disturbance Warning that stated, "Increased geomagnetic activity expected due to coronal mass ejection from April 14 - 15 2022."

Sunspot numbers and solar flux declined this reporting week (April 7 -13), although solar activity was not really down. Instead, there were solar flares and coronal mass ejections (CMEs) every day, causing disruptions to HF radio communication.



This Solar Dynamics Observatory Image was taken on April 14, 2022. [Photo courtesy of NASA SDO/HMI]

There was a new sunspot appearance on April 7, and another on each day from April 11 - 13. Yet, average daily sunspot numbers declined from 94.6 to 34.4, and average daily solar flux dropped from 135.3 to 103.1.

Average daily planetary A index increased from 14.4 to 15.9. Average middle latitude A index, measured at a single magnetometer in Virginia, went from 10.9 last week to 12.6 this week.

The latest solar flux prediction from the US Air Force Space Weather Squadron, via the National Oceanic and Atmospheric Administration (NOAA), shows modest activity for the next month at 100, 103, 105, and 106 on April 14 - 17; 105 on April 18 - 19; 108 and 106 on April 20 - 21; 110 on April 22 - 23; 115 on April 24; 118 on April 25 - 28; 116 on April 29 through May 6; 112 and 98 on May 7- 8; 95 on May 9 - 11; 98 and 102 on May 12 - 13, and 106 on May 14 - 18. . . .

[This complete article can be found on WWW.W6HA.ORG in the April 14th ARRL Ltr – ed]

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](#) the Propagation Page of Carl Luetzelschwab, K9LA.

Friday update: <http://www.arrl.org/news/the-k7ra-solar-update-723>

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 (T=Contest; P=Party)
 April 15 -- Holyland DX Contest (CW, ph, dig)
 April 16 -- ES Open HF Championship (CW, ph)
 April 16 -- Worked All Provinces of China (CW, ph)
 April 16 -- YU DX Contest (CW, ph)
 April 16 -- CQMM DX Contest (CW)
 April 16 -- Michigan QSO Party (CW, ph)
 April 16 -- EA-QRP CW Contest (CW)
 April 16 -- Feld Hell Sprint (dig)
 April 16 -- Ontario QSO Party (CW, ph)
 April 17 -- Dutch PACCdigital Contest (dig)
 April 17 -- Quebec QSO Party (CW)
 April 17 -- Run for the Bacon QRP Contest (CW)
 April 18 -- DARC Easter Contest (CW, ph)
 April 19 -- 222 MHz Spring Sprint (CW, ph, dig)
 April 19 -- Walk for the Bacon Contest (CW)
 April 23 -- International Spring Contest (dig)
 April 23 -- QRP to the Field (CW, ph)

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.

Amateur Radio in the News

ARRL Public Information Officers, Coordinators, and many other member-volunteers help keep amateur radio and ARRL [in the news](#).

["When all other communication systems fail, El Dorado County's amateur radio groups step in"](#) / ABC 10 (California), March 29, 2022.

[Share](#) amateur radio media hits you spot with us

ARRL Section, State and Division Conventions / Hamfest

In the West or near members anywhere:

April 23 -- [ARRL Delaware State Convention](#) (Delmarva Amateur Radio and Electronics Expo), Georgetown, Delaware
 May 1 -- [ARRL Eastern Pennsylvania Convention](#) (Warminster Amateur Radio Club Hamfest), Bristol, Pennsylvania
 May 20 - 22 -- [Dayton Hamvention](#)[®], Xenia, Ohio, and featuring [ARRL EXPO](#)

Search the [ARRL Hamfest and Convention Database](#) to find events in your area.._____

In Brief...

Military Exercise Will Use 50 MHz Band.

Belgium's communications regulator BIPT has said 50.200 MHz and 51.075 MHz will be used from May 30 to June 18 during a military exercise. A translation of the post by Belgium's national amateur radio society UBA said, "BIPT informs us that in the period from May 30 to June 18, 2022, a military exercise will be held in Elsenborn in which two frequencies in the 6-meter band will be used -- 50.200 MHz and 51.075 MHz. The amateur radio service has a secondary status in this band; the military services a primary status." Radio amateurs are called upon to pay particular attention to this during this period, to avoid the use of these frequencies if possible, and certainly to listen carefully to whether the frequency is in use if they still wish to use the frequencies concerned. --

Thanks to Southgate Amateur Radio News

The 2022 AMSAT President's Club Coins Have Arrived

The coins commemorate the 50th anniversary of AMSAT's launch on October 15, 1972. This year's coin features an image of AMSAT-OSCAR 6. Join the [AMSAT President's Club](#) today and help keep amateur radio in space.

Announcements

- The [Nashua Area Radio Society](#) will hold their next online Ham Bootcamp on Saturday May 14 from 10 Am to 6 PM Eastern time. Ham Bootcamp includes a series of demonstrations and tutorials designed to help newly licensed Technician-, General-, and Amateur Extra-class license holders get on the air and use their amateur radio license. Bootcamp is also a great opportunity for prospective hams who are interested in seeing what the hobby has to offer. Ham Bootcamp activities are provided online via a series of sessions. Bootcamp participants will find all of this material interesting and fun no matter what their focus or license level.

The online Bootcamp program is available to all licensed and prospective hams in North America. You can register for the next Ham Bootcamp session in May 2022 by on the Nashua Area Radio Society website.

- The [EZNEC](#) antenna-modelling software by Roy Lewallen W7EL, is now a free download.
- France's IARU member-society REF has announced that special event station TM97 WARD will be among those on the air April 16 - 25 for World Amateur Radio Day ([WARD](#)), which takes place each year on April 18.
- Registration is open for the 67th [Pacific Northwest DX Convention](#), set for August 5 - 7 in Spokane, Washington. The 2022 event will emphasize DXing, contesting, and technology.
- [PA22L](#) is the commemorative call sign recognizing the city of Leiden as the European City of Science. Leiden is hosting a year-long science festival.
- [4A90FMRE](#) is on the air to mark the 90th anniversary of the Federacion Mexicana de Radio Experimentadores. Operation is taking place from all 31 Mexican states plus Mexico City.
- **Special Event:** The London BBC Radio Group has been granted a year-long special event call sign, GB100BBC, to commemorate the centenary of the BBC in 2022. Operations will be carried out by individual members or groups from home stations or BBC premises.
- **Steve Johnston, WD8DAS**, has purchased [AF4K Crystals](#) and plans to reopen it soon. AF4K Crystals was a source for vintage and modern radio crystals for nearly 2 decades. The company will fill a gap for those seeking to buy quartz crystals for projects

Lunch Kitty Financials – for Mar, 2022

Attendance:	21		
	Starting Lunch Kitty:	\$	211.00
Expenses:	Pizza(1) & Salads =	\$95.00	
	Drinks: Soda: 11 @ 0.375 =	\$9.25	
	Water 1 @ 0.25 =	\$0.25	
	<u>Food Total:</u>	\$104.50	\$10 6.50
Income:	Lunch:	\$46.75	\$153.25
	Recycling: 7/17/21	00.00	\$153.25
	Room Rent-To General Funds:	\$00.00	\$153.25
	Starting - Kitty for Apr 21, 2022 Mtg:	\$153.25	
	<u>[Loss of \$57.25 - \$32.00 for room rent = Loss of 89.25]</u>		

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

ARLD015 DX news [Note: 'T' = contest]

This week's bulletin was made possible with information provided by KK9A, 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.

GEORGIA, 4L. Dariusz, SP9DLM is QRV as 4L/SP9DLM **until April 19** while on work assignment from Telavi, and possibly Tbilisi and Kobuleti. Activity is on 80 to 10 meters using SSB. QSL to home call.

MALDIVES, 8Q. Braco, E77DX is QRV as 8Q7DX from Baa Atoll, IOTA AS-013, **until April 27**. Activity is on 80 to 10 meters, and possibly 160 meters. QSL via OE1EMS.

CUBA, CO. Look for Team T47C to be QRV from **April 17 to 19**. Activity will be on the HF bands. QSL via IK2DUW.

AZORES, CU. Tony, CU8AS is QRV with special call CQ84AS from Flores Island, IOTA EU-089, **until April 19**. Activity is on 30, 17, and 12 meters using mainly CW. QSL via HB9CRV

CEUTA AND MELILLA, EA9. Miguel, EA9ACE will be QRV from Ceuta in the CQMM DX CW contest. QSL to home call.

AUSTRAL ISLANDS, FO. Rob, N7QT, Walt, N6XG, Heye, DJ9RR, Gene, K5GS, Steve, W1SRD, Melanie, N7BX and Doris, K0BEE plan to be QRV as TX5N from Raivavae Island, IOTA OC-144, **from April 16 to 28**. Activity will be on 160 to 10 meters using CW, SSB, and various digital modes. QSL via M0URX.

DJIBOUTI, J2. Matt, KN9U & Paul, N7JDI are QRV as J20MR and J28JD, respectively, from the US Navy Base in Lemonnier. Activity is on 40 to 10 meters using SSB, various digital modes, and possibly CW. [Listed Apr. – ed] [QSL #2](#)

DOMINICA, J7. Michael, DF8AN will be QRV as J79MN from **April 19 to 24**. Activity will be on the HF bands. QSL to home call.

SVALBARD, JW. A large group of operators will be QRV as JW0X and JW100QO from Spitsbergen Island, IOTA EU-026, from **April 19 to 26**. Activity will be on 160 to 6 meters using CW, SSB, RTTY, and FT8 with five stations active from three locations. QSL via M0URX.

JAN MAYEN, JX. Helge, LB4MI is QRV as JX/LB4MI until early **October '22**. Activity is on 20 and 17 meters using SSB. QSL #1

LITHUANIA, LY. Special call sign LY100BBALL is QRV until the end of April to commemorate 100 years of basketball here. QSL via LY2QT.

SURINAME, PZ. Rico, PZ5JW will be QRV in the CQMM DX CW contest. He plans to be active on 40 to 10M, and possibly 80M. QSL via EA5GL.

POLAND, SP. Special call sign 3Z80AK is QRV until **May 31** to commemorate the 80th anniversary of the founding of the Armia Krajowa, the dominant underground resistance movement in Poland during World War II. QSL via SP1PBW.

NAMIBIA, V5. Mike, V51MA is QRV from Windhoek and plans to be active in the CQMM DX CW contest. QSL via LoTW.

MARSHALL ISLANDS, V7. Stewie, WV7MS is QRV as V7/WV7MS from Kwajalein Atoll, IOTA OC-028, while working as a firefighter. Activity is in his spare time. QSL via LoTW.

INDONESIA, YB. Special event station 8D97WARD will be QRV from **April 16 to 18** to commemorate World Amateur Radio Day on April 18. Activity will be on 80, 40, 20, 15, and 10 meters using CW, SSB, RTTY, and FT8, and possibly on Satellite IO-86. QSL via LoTW.

KENYA, 5Z. Andy, 5Z4VJ has been active using FT8 on 10 meters around 2030z. QSL#1

IRAN, EP. Zahra, EP5CZD has been active on 15 meters using SSB. QSL via RW6HS.

NEW CALEDONIA, FK. Erwann, LB1QI is QRV as FK/LB1QI from Noumea. Activity is in his spare time on the HF bands. QSL #1

CHAD, TT. Nicolas, TT8SN is QRV from on 10 and 6M using CW and SSB. This includes being active on Satellite QO-100. QSL via DL9USA.

NEW ZEALAND, ZL. Jacky, ZL3CW will be **QRV in the RSGB Commonwealth T. [listed Mar. '22 – ed]** QSL#1

TOGO, 5V. Andy, KB9IJI is QRV as 5V7JA & is active using FT8 on 30 & 20M, typically around 2100z to 0230z. [listed Mar.'22 – ed] QSL #1

FEDERAL REPUBLIC OF GERMANY, DA. **Special Event Station DA22WARD** is QRV **until April 30** to celebrate World Amateur Radio Day, which is on April 18. QSL via bureau.

ST. BARTHELEMY, FJ. Andreas, DK6AS is QRV as FJ/DK6AS and is active on 40, 17, 15, 12, and 10M using CW from 1100 to 2330z [**listed 3/11/22** – ed] QSL #1

Long Term (more than 1 month)

COLOMBIA, HK. Lothar, DK8LRF be QRV as HK3JCL **until end of May 2022**. Activity will be mainly on 20 meter SSB. QSL #9, #3

NICARAGUA, YN. Trevis, YN7ZTR is a missionary working in Gaunacastillo for the next two years. He is active in his spare time. [**Until 2022-June**-ed] QSL via LoTW.

JAPAN, JA. Members of the radio club in the city of Tama are QRV as 8N1TAMA until the **end of June 2022** to mark their city's 50th Anniversary. Activity is on 160m to 70 cm using CW, SSB & FM. QSL #3

MINAMI TORISHIMA, JD1. Take, JG8NQJ is QRV as JG8NQJ/JD1 from Marcus Island, IOTA OC-073, **until mid-June, '22**. Activity is on the HF bands using mostly CW. QSL via JA8CJY.

SOUTH SUDAN, Z8. Diya, YI1DZ, will be QRV as Z81D from Juba beginning March 11 and will be here **until September 11**. Activity will be holiday style. QSL via OM3JW.

FEDERAL REPUBLIC OF GERMANY, DA. **Special Event Station DM60CSJ** is QRV **until July 31, '22** to celebrate the 60th anniversary of Club Station Jesewitz. QSL via bureau.

SOUTH SUDAN, Z8. Diya, YI1DZ is QRV as Z81D from Juba until September 11. Activity is holiday style on the HF bands. QSL via OM3JW.

INDONESIA, YB. Special Event Station s 7B2C, 7B2E, 7B2T, 7B2H and 7B2O are QRV until the **end of October 2022** to celebrate the Javanese-Hindu Ceto Temple that was built in 1475. Activity is on 80, 40, 20, 15 and 10 meters using SSB and FT8. QSL #1

BELGIUM, ON. Members of the Radio Club Belge de l'Est are QRV with **Special Event Station** call sign OR100RCBE **during all of 2022** to celebrate the club's founding in 1922. QSL via ON4GDV.

GUINEA, 3X. Jean-Philippe, F1TMY, expects to be QRV as 3X2021 from Conakry **until end of 2022**. He plans to be active on 160 to 6M, and Satellite QO-100. He also plans side trips to the Los Islands, IOTA AF-051. QSL via Club Log.

MEXICO, XE. Zalo, XE3N is QRV as 6F6F **during 2022** to celebrate the 120th anniversary of Playa del Carmen City, Quintana Roo. QSL via EA5GL.

SWEDEN, SM. Members of the Skoevde Amateur Radio Club are QRV with special call SK50EI **during 2022** to celebrate the club's 50th anniversary. QSL via bureau.

SWITZERLAND, HB. Members of USKA Schaffhausen are QRV with Special Event Station HB50SH **during 2022** to celebrate the club's 50th anniversary. QSL via LoTW.

TURKEY, TA. Members of the Turkish Amateur Radio Association are QRV with special call sign TC60TRAC **during all of 2022** to celebrate the club's 60th anniversary. QSL via the bureau.

NORWAY, LA. Special Event Station LA100B is QRV **during 2022** to celebrate NRRL's Bergensgruppen 100th anniversary. QSL via LoTW only.

Until 2023

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

Until 2025

LAOS, XW. Mike, XW2DX is QRV from Vientiane and is here for the next 5 years. [**Until August 2025-ed**] Activity is on 20, 15 and 10 meters. QSL via RMOL.

Notes:

1. QSL direct to home call.
2. QSL via operators' instructions.
3. QSL via bureau
4. QSL via Log Book of The World (LoTW)
5. QSL via Instruction on QRZ.com
6. QSL via eQSL
7. QSL via QRZ.com
8. QSL via ClubLog
9. QSL via Home Call Sign

“There have been three great inventions since the beginning of time. The fire, the wheel, and central banking.”

... Will Rogers

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) [Activated, as of Feb. 26]

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.ARRLLAX.org .

RF Safety – Power Density Web site:

http://hintlink.com/power_density.htm

ARRL [RF exposure calculator](#)

Links: [TRW license test](#)

<http://W6TRW.com/index.php/amateur-radio-license-testing/>

International Space Station (ISS)

Monitor -**145.800** mHz.

PodCast – Amateur Radio News

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

YouTube: [Call Sign History](#)

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, sk

1981 Russ Sanford, WA6NQO, sk

1982, 83 Chuck, KN6H

1984 John Bennett, WD6BAI

1985 Scott Fraser, KN6F

1986, 87 Ed, K6GQV

1988 John, WA6LOD

1989, 90 John, KJ6AW

1992 Bruce, WB6ARE

1993 Rick, KD6DYN

1994

1995,6,7,8,9 Brian, AB6UI

2000,1,2 Bruce, W6BLS

2004,5,6 Ed, N6EG

2007 - 2014 Barry, KG6NWJ

2015, 16, 17 – Dale Birmingham, WB6MMQ

2018-19 Mike, N6MDV (Past President)

2020, 21 – Brian, AB6UI (President)

How To: **Wires-X** can be found at K7REA.com

Southern California Band Plans:

Tasma – 2 Meters

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

220SMA Band Plan – 1 ¼ Meters

<http://www.220sma.org/index.htm>

SCRRBA (Southern California Repeater and Remote Base Assoc.) – 440 mHz (70 cm) and up

<http://www.scrba.org/BandPlans/BandPlans.htm>

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:

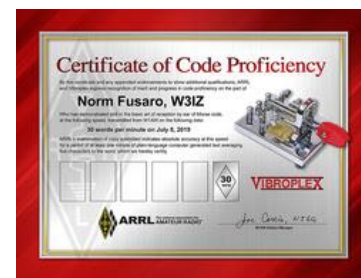
CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 & 15 WPM
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 & 10 WPM
 CWb = Morse Code Bulletins = 18 WPM

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 2020. W1AW will transmit Qualifying Runs up to 16 times per month.
 Time is PST: [10 – 35 wpm – **Bold 35, 40 – 10 wpm**] – on CW Frequencies listed above.

Month	6 AM	1 PM	4 PM	7 PM	6 AM	1 PM	4 PM	7 PM	6 AM	1 PM	4 PM	7 PM	6 AM
Apr	4/19			4/20		4/22	4/21	4/25	4/26	4/29			
May		5/2	5/3		5/6	5/10	5/11		5/12			5/13	
May	5/17		5/19	5/18		5/20			5/24	5/26	5/27		



West Coast Qualifying Runs:

Wed Apr 27 @ 6 PM HST (0400 UTC on Apr. 28) on 7047.5 & 14047.5 kHz by KH6TU – **40 – 10 wpm**
 Wed May 25 @ 9 PM PDT (0400 UTC on May26) on 3590 & 7047.5 kHz by K9JM 10 – 35 wpm

Earn your Code Proficiency certificate by legibly coping at least 1 minute of text by hand and mailing the sheet to: W1AW Qualifying Runs, 225 Main St., Newington, CT 06111. Include \$10 (check or money order) if this is a submission for your initial Code Proficiency certificate; \$7.50 if you are applying for an endorsement (available for speeds up to 40 wpm). Your test will be checked against the actual transmissions to determine if you have qualified.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here, also. The audio (real-time) runs concurrently with W1AW's regular transmission schedule.

K1USN Radio Club Announces Weekly Slow-Speed CW Contest

The K1USN Radio Club in Massachusetts is launching a new weekly, hour-long, slow-speed contest, the [K1USN SST](#). **Fridays 1:00-2:00 pm PDT** (2000z -2100z) and **Sundays, 5 to 6 PM PST** (Monday 0000-0100 UTC) Suggested frequencies: 3.532 - 3.539; 7.032 - 7.039 MHz, & 14.032 - 14.039 MHz. Exchange name & s/p/c. Read [more](#).

The Straight Key Century Club (SKCC): http://www.skccgroup.com/member_services/beginners_corner/
 SKCC Beginner's Corner - Monthly Straight Key Night (SKN) is on the 1st of each month. It is not a contest. No logs are submitted. The Elmer frequency is **7114 KHz**. It's a safe haven for CW newcomers. Elmers are encouraged to monitor the frequency and work the CW beginners, some of whom may have had a license for many years.

July 1, 2021 – June 30, 2022 CLUB OFFICERS**Elected Officers:**

PRESIDENT:	Brian, AB6UI	AB6UI at AOL.com
VICE PRESIDENT:	Howard, KE6MAK	Karse1 at DSLextreme.com
SECRETARY:	Dale, WB6MMQ	WB6MMQ at ARRL.net
TREASURER:	Paul, KK6TAC	PAGeisel at Verizon.net
STATION MANAGER:	Michael, N6MHD	N6MHD at ARRL.net
Available PAST PRES.:	Dale, WB6MMQ	WB6MMQ at ARRL.net

Committees:

NEWSLETTER EDITOR:	Dale, WB6MMQ	WB6MMQ at ARRL.net
QUARTERMASTER:	Michael, N6MHD	N6MHD at ARRL.net
WEB MASTER:	Richard, KM6FP	RunFarr at Gmail.com
YAHOO GROUPS:	Richard, KM6FP	RunFarr at Gmail.com (http://groups.yahoo.com/w6ha)
MEMBERSHIP:	Dale, WB6MMQ	WB6MMQ at ARRL.net
SCRRBA REP:	Ray, WA6NVL	WA6NVL at ARRL.net
MEETING HOST:	Dale, WB6MMQ	WB6MMQ at ARRL.net
CLASS Coordinator:		
FIELD DAY Coordintrs :	Brian, Dale, Howard	See above
NET COORDINATOR:	Howard, KE6MAK	Karse1 at DSLextreme.com
RACE COORDINATOR:	Dale, WB6MMQ	WB6MMQ at ARRL.net
ANT. TRAILER Coor:	Brian, AB6UI	AB6UI at AOL.com
RAYTHEON Coor:	Ken, KI6YDN	KSIMP1022 at AOL.com

CLUB REPEATER: W6HA 445.620 MHz (-) PL 127.3 Hz Location: Bldg. R1 roof
Packet (node :hughes) 145.61s W6HA; **Wires-X** Room: 40909; Node: 30909

HARC Repeater Nets: Wednesdays, 7:30 PM (0330 UTC Thursdays)

Thursdays, 12:05PM (2005 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 PT

HAC NET: Hughes ARC - 14.233 mHz +/- QRM - Inactive

Club Shack: The club shack is in E1, Lobby D. There is a Kenwood TS-520 HF radio connected to a 40 –10 meter end fed dipole. 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. Michael, N6MHD) **But after covid-19 restriction are removed.**

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 DGBirmingham (at) Gmail (dot) com. If anyone needs a club application, please contact Membership Chair: Dale, WB6MMQ and one will be sent to you.

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

Web Site: www.W6HA.org ;.net and ,com will also get you there.

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