



The Transponder



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

February 12, 2021 Repeater 445.620 – PL 127.3 Web Site: <http://W6HA.com> Vol. XLVIII, No. 2

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

Where: The club’s Repeater, and Zoom (See E-mail for ID & PW)
Location: Repeater location – “High Above LAX”

Meeting Notice: Date: Tuesday, February 16, 2021
Time: Pre-Meeting: Gather, Exchange Greetings
Meeting Call to Order: 12 to 1 PM (Zoom Audio on Repeater)
On-Air Roll Call (Sign-In), 11:30 (informal discussion / Greetings)

Featured Presentation:

Portable Power Option

Presented by: Howard, KE6MAK and
Brian, AB6UI

Up Coming Events:

February, 20 & 27 (all day) Technician Class (See article on page 3)
March, 20 & 27 (all day) Technician Class
June 26, 27 – Field Day 2021

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Lunch: You are on your own, but my recommendation: Order some pizza, delivered, 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: See last page

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

This program is not sponsored by the El Segundo Public Library.

Presidents Corner:

Hughes Aircraft Company supported social clubs of all kinds from fishing & Ski clubs to Computer and of course the Hughes Amateur Radio club. Once GM took over and then Raytheon this support dwindled and eventually stopped. Then in 2019 we lost the storage area that Raytheon had provided for our field day equipment and tower trailer. Since then we have been pursuing other options for the storage of club equipment. Along those lines it became apparent that it would greatly benefit our club to obtain Non-Profit Organization status. There are several advantages to this but here are a few.

Credibility. Donors may prefer to donate to nonprofit corporations because of this credibility.

[It goes beyond credibility – See below – ed]

Limited liability protection. A nonprofit corporation protects directors and officers against being held personally responsible for their company's debts and liabilities.

Access to grants. For instance, certain grants and other public allocations are only available to 501(c)(3) organizations. Tax-deductible donations. With 501(c)(3) nonprofits, donations made by individuals to the nonprofit corporation are tax-deductible.

Based on the recommendation from the Club Board we have formed a committee to look into obtaining Non-Profit Organization status for the club and that committee is making good progress. Although there are several hurdles to overcome with becoming a non-profit I am convinced that this will be extremely advantageous for both the club and all its members. – AB6UI

[It goes beyond 'Creditability' An existing 501(c)(3) can NOT give anything (such as storage space) to a non 501(c)(3) without risking the loss of their own 501(c)(3) status. So asking schools, parks or recreation facilities, even fire stations, for storage space, is not likely to work unless we are also a 501(c)(3) nonprofit. – ed]

The Nominating committee is formed

In January the Immediate Past President forms the nominating committee who will establish a slate with at least one candidate for each elected position – more is better. The slate is published in the April Transponder. Nominations 'from the Floor' are

opened at the April meeting, the election is held at the May meeting (or perhaps on-line – Survey Monkey). New officers are installed in June and begin their official duties on July 1st. From the Nominating Committee:

Next Year Officers Election

It is that time of year to be thinking about candidates for our club officers' election. Candidates will have an opportunity to describe why they would be a good choice in the April Transponder. The election will be at the May meeting.

I think it is good to change the leadership fairly often to invigorate the club's activities. If you have a thought about what you would like the club to be doing in the future and you have a thought for whom might be a candidate for office, please let me know. Maybe you have an interest in helping the club as a club officer yourself. We have formed a nominating committee that will establish a slate of officers by March. You as a club member can have a choice about the direction of our club. Options are good.

Mike, N6MDV email: N6MDV@arrl.net

Contests for February – March

CQ WW RTTY WPX Contest

February 13 0000z to February 14 2359z

Rules and Info: www.cqwxpxrtty.com

ARRL International DX Contest, CW

February 20 0000z to February 21 2359z

ARRL International DX Contest, SSB

March 6 (0000z) to March 7 (2359z)

Rules and Info: www.arrl.org/arrl-dx

Wednesday Net - Meet this year's changes

I would like to introduce you to a change of our weekly Net format. We are now instituting Rotational Net Control Operators. Members will be asked to be Net Control for the bulk of our nets conducted this year. We are off to a good start as some of you observed during our previous week's net.

There are a few reasons for doing this and they are:

1. Our net began with the basis of having voluntary net control operators. Along the way we drifted from that; and I will admit that my vigor in conducting the net as often as I did reinforced that drift. Time to get back to our roots. I too will be in the rotation of Net Control operators.
2. Being a Net Control operator can expand your skills/capabilities, such as:
 - a. Fluency in copying and logging call signs & related information
 - b. Handling multiple responders in an efficient manner – solid skill for contesting
 - c. For those of you involved in emergency and/or public service [work] this will be a necessary skill to master. Get acquainted and proficient with our club for practice.
3. A prevailing theme that I have espoused is Get Radioactive. This is indeed radioactivity! Some of you may think, as do I, it is a fun thing to do.

How does this work?

Some of you have already received, and others will begin receiving, an e-mail from my personal email (karsel@dslextreme.com) asking you to choose one of a few dates in which to be Net Control. Included, will be a copy of the net preamble and complete script for conducting the net. Do be assured you will not be left to flounder; you may contact me to discuss the process, ask questions and get a better handle on the role.

Of course, if you have not received an invitation from me yet and are anxious for your turn; please e-mail me at the address above and I can certainly work you into a spot on the calendar!

73, Howard KE6MAK, Vice President

ARRISS News

Back in March 2020 I was contacted by Mrs. Sara Bridgman at Red Hill Lutheran School in Tustin. They were interested in chance to having their students talk to the International Space Station through the ARISS program and asked me if I could assist them in making that happen. I was able to help them generate their application and we put down the Hughes ARC as the “Local Ham Radio Club POC” and I also submitted a formal letter of support from the club.

Once Red Hill’s application was accepted Norm Thorne K6UU requested and was assigned the role of “technical mentor” for the contact. We had applied for a direct contact. A direct contact is where we go to the school and set up all our equipment and make the contact “directly” from there.

Unfortunately the ARISS team decided that due to Covid-19 all contacts will be “Tele-bridge” until the crisis is over. A tele-bridge contact is still made using ham radio but the ham station is at one of the permanent ARISS Tele-bridge locations and the school basically uses a phone patch to ask their questions.

The contact was held Wed Feb 10 at ~10:30am PDT the students we able to asking their questions of ISS astronaut Mike Hopkins, amateur radio call sign KF5LJG. They got in about 22 questions before the ISS went out of range over the horizon.

Here is a link to the YouTube video of the event <https://youtu.be/sZ-kyjA445s>
73 de AB6UI, Brian

Winter & Spring Tech Licensing Classes

Technician License Classes

We have had such great demand for the February 20/27 Ham class, with over 50 registered, that we opened a second class. The second class will be March 20 and 27. We already have 12 people registered. There is great demand for getting a Ham license and it is good that our club is able to provide training opportunities. Both classes will be online via Zoom. If you know someone who would like to get their license, have them send an email to w6haclass@w6ha.com and mention the March class. February is full.

Mike, N6MDV

Lunch Kitty Financials – for Feb., 2020

Attendance: 21

	Starting Lunch Kitty:	\$ 150.75
Expenses:	Pizza(1) & Salads	\$102.00
	Drinks: Soda: 8 @ 0.375 =	\$3.00
	Water 2 @ 0.25 =	\$0.50
	<u>Food Total:</u>	\$ 105.50
Income:	Lunch:	\$108.75
	Room Rent-To General Funds:	\$00.00
	<u>Starting - Kitty for Mar 17, 2019 Mtg:</u>	\$154.00
	<u>[Gain of \$3.25 - \$20.00 for room rent = Loss of 16.75]</u>	

ARRL Letter - Expects of Possible Interest**ARRL to Extend Field Day Rule Waivers from 2020, Add Class D and E Power Limit**

The COVID-19 pandemic-modified [ARRL Field Day](#) rules from 2020 will continue this June with the addition of a power limit imposed on Class D (Home Stations) and Class E (Home Stations-Emergency Power) participants. The news from the ARRL Board's Programs and Services Committee comes as many clubs and groups are starting preparations for Field Day in earnest. Field Day 2021 will take place June 26 - 27.



"This early decision should alleviate any hesitancy that radio clubs and individual Field Day participants may have with their planning for the event," said ARRL Contest Program Manager Paul Bourque, N1SFE.

For Field Day 2021, Class D stations may work *all other* Field Day stations, including other Class D stations, for points. This year, however, Class D and Class E stations will be limited to 150 W PEP output.

For Field Day 2021, an *aggregate* club score will be published -- just as it was done last year. The aggregate score will be a sum of all individual entries that attributed their score to that of a specific club.

ARRL Field Day is one of the biggest events on the amateur radio calendar. Last summer, a record 10,213 entries were received.

"With the greater flexibility afforded by the rules waivers, individuals and groups will still be able to participate in Field Day, while still staying within any public health recommendations and/or requirements," Bourque said.

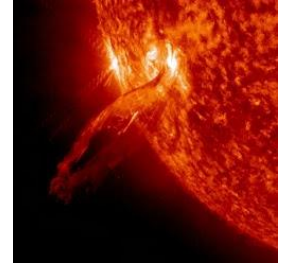
The [ARRL Field Day](#) web page contains complete rules and entry forms, as well as any updated information as it becomes available. Join the ARRL Field Day [Facebook group](#). Read [an expanded version](#).

"It's waiting that helps you as an investor, and a lot of people just can't stand to wait. If you didn't get the deferred-gratification gene, you've got to work very hard to overcome that." ... Charlie Munger

A "Perfect Coronal Mass Ejection" Could Be a Nightmare

[A new study](#) in the research journal *Space Weather* considers what might happen if a worst-case coronal mass ejection (CME) hit Earth -- a "perfect solar storm," if you will.

In 2014, Bruce Tsurutani of Jet Propulsion Laboratory (JPL) and Gurbax Lakhina of the Indian Institute of Geomagnetism introduced the "[perfect CME](#)." It could create a magnetic storm with



intensity up to the saturation limit, a value greater than the [Carrington Event](#) of 1859, the researchers said. The interplanetary shock would arrive at Earth within about 12 hours, the shock impingement onto the magnetosphere would create a sudden impulse of around 234 nanoteslas (nT), and the magnetic pulse duration in the magnetosphere would be about 22 seconds. Orbiting satellites would be exposed to "extreme levels of flare and interplanetary CME (ICME) shock-accelerated particle radiation," they said. The event would follow an initial CME that would "clear the path in front of it, allowing the storm cloud to hit Earth with maximum force."

The CME's 12-hour travel time would allow little margin for preparation. The CME would hit Earth's magnetosphere at 45 times the local speed of sound, and the resulting geomagnetic storm could be as much as twice as strong as the Carrington Event. Power grids, GPS, and other services could experience significant outages.

More recent [research](#) led by physicist Dan Welling of the University of Texas at Arlington took a fresh look at Tsurutani and Lakhina's "perfect CME," and given improvements in spaceweather modeling, he was able to reach new conclusions.

Welling's team found that geomagnetic disturbances in response to a perfect CME could be 10 times stronger than Tsurutani and Lakhina had calculated, especially at latitudes above 45 to 50°. Read [an expanded version](#).

Ham Radio Forms a Planet-Sized Space Weather Sensor Network

The [article](#) "Ham Radio Forms a Planet-Sized Space Weather Sensor Network," which appeared on February 9 in *Eos, Earth & Space Science News*, sprang from a project by the Ham Radio Science Citizen Investigation ([HamSCI](#)), founded by Nathaniel Frissell, W2NAF, of the University of Scranton, one of the paper's authors. The other authors are Kristina Collins, KD8OXT, who led the project, and David Kazdan, AD8Y, both of Case Western Reserve University (W8EDU). The article



posits that, with their experience dealing with ionosphere-influenced propagation, radio amateurs have an empirical

knowledge of space weather and offer a ready-made volunteer science community.

The article covers the methods and research being used to monitor the effects of solar activity on Earth's atmosphere, telecommunications, and electrical utilities -- and the valuable data being crowdsourced from amateur radio signals.

"To fully understand variability on small spatial scales and short timescales, the scientific community will require vastly larger and denser sensing networks that collect data on continental and global scales," the article asserts. "With open-source instrumentation cheaper and more plentiful than ever before, the time is ripe for amateur scientists to take distributed measurements of the ionosphere -- and the amateur radio community is up for the challenge."

"The reach of these crowdsourced systems, and the support of the amateur community, offers tremendous opportunities for scientific measurements," the article notes.

The research acknowledges a handful of HamSCI collaborators -- from organizations and universities -- and is supported by National Science Foundation grants. HamSCI's Personal Space Weather Station

initiative aims to develop a network of specially equipped amateur stations that will allow amateurs to collect useful data for space science researchers. Ham radio operators and researchers, through HamSCI, are designing hardware for a distributed network of personal space weather stations, the article explains.

The 2021 HamSCI virtual workshop will take place March 19 - 20. Read [an expanded version](#).

ARRL Learning Network Webinars

Visit the [ARRL Learning Network](#) (a members-only benefit) to register, check on upcoming webinars, and to view previously recorded sessions.

Maxim Memorial Station W1AW Tour -- Joe Carcia, NJ1Q, W1AW Station Manager

Maxim Memorial Station W1AW, located in Newington, Connecticut, was established to honor the memory of ARRL's co-founder and first president, Hiram Percy Maxim. Although the first radio station of ARRL was actually located in Hartford, Connecticut and active as W1MK, W1AW in Newington is known worldwide and considered the radio station most associated with Hiram Percy Maxim. Formally established in 1938 -- nearly 2 years after the death of Hiram Percy Maxim -- W1AW has consistently been on the air, save for the time when the station was ordered off the air by the FCC because of World War II.

Thursday, February 18, 2021 @ 3:30 PM EST (2030 UTC)

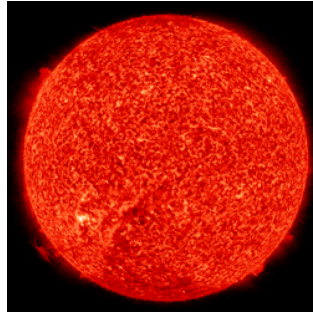
Announcements

- *CQ* has announced that Trent Fleming, N4DTF, of Germantown, Tennessee, has been named *CQ* magazine's VHF-Plus Editor. He succeeds Tony Emanuele, K8ZR. Fleming's first column will appear in the April 2021 issue of *CQ*.
- Michel Godart, F8GGZ, plans to celebrate United Nations World Radio Day, February 13, with special call sign TM23JMR (Journée Mondiale de la Radio). Activity will be on 1.8 through 14 MHz, SSB and CW.

The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: Sunspots are gone, with none seen since February 2 and 3. [Spaceweather.com](https://www.spaceweather.com) reports that a small proto-sunspot "is struggling to form" at the edge of the sun's southeast quadrant near the eastern horizon. They also report that 56% of the days so far in 2021 have been spotless. For all of 2020, 57% of the days were spotless.

Average daily solar flux was 72.8 over this reporting week, down from 74.2 last week. Average planetary A



index increased from 6.7 to 7.7, and average daily middle latitude A index rose from 4.6 to 6. These are still low, quiet numbers, quite favorable for conditions on 80 and 160 meters, particularly during winter.

Predicted solar flux for the next 30 days is 72 on February 11 - 18; 78 on February 19 - 22; 76 on February 23 - 25; 74 on February 26; 73 on February 27 - March 1; 72 on March 2 - 7; 74 on March 8 - 10, and 76 on March 11 - 12. Flux values may rise to 78 again after the middle of March.

Predicted planetary A index is 5 on February 11 - 15; 10 on February 16 - 18; 5 on February 19 - 20; 20, 16, and 12 on February 21 - 23; 5 on February 24 - 28; 18 and 14 on March 1 - 2; 5 on March 3 - 4; 8, 20, and 10 on March 5 - 7, and 5 on March 8 - 12.

Sunspot numbers for February 4 - 10, 2021 were 0, 0, 0, 0, 0, and 0, with a mean of 0. The 10.7-centimeter flux was 73.9, 72.8, 72.5, 73.2, 73.6, 70, and 73.7, with a mean of 72.8. Estimated planetary A indices were 7, 6, 7, 21, 6, 4, and 3, with a mean of 7.7. Middle latitude A index was 7, 3, 4, 18, 6, 3, and 1, with a mean of 6.

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

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

[Share](#) your reports and observations

Just Ahead in Radiosports (T = Contest)

Feb. 13 -- Asia-Pacific Spring Sprint, CW

Feb. 13 -- Feld Hell Sprint

Feb. 13 -- RSGB 1.8 MHz T (CW)

Feb. 13 - 14 -- The HamCation QSO Party

Feb. 13 - 14 -- CQ WW RTTY WPX T

Feb. 13 - 14 -- SARL Field Day T (CW, ph, dig)

Feb. 13 - 14 -- Dutch PACC T (CW, phone)

Feb. 13 - 14 -- SKCC Weekend Sprintathon (CW)

Feb. 13 - 15 -- YLRL YL-OM T (CW, ph, dig)

Feb. 13 - 14 -- OMISS QSO Party (Phone)

Feb. 13 - 14 -- AWA AM QSO Party

Feb. 14 -- PODXS 070 Club Valentine Sprint

Feb. 14 -- Balkan HF T (CW, phone)

Feb. 15 -- CQC Winter QSO Party (CW)

Feb. 15 -- 4 States QRP Group 2nd Sunday Sprint (CW, ph)

Feb. 15 -- RSGB FT4 T Series

Feb. 17 -- AGCW Semi-Automatic Key Evening

Feb. 20 - 21 -- ARRL International DX T (CW)

Mar. 6 - 7 -- ARRL International DX T (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.

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.

February 13 - 14 -- [Orlando HamCation Special Edition](#) (online)

March 13 - 14 -- [QSO Today Virtual Ham Expo](#)

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

In Brief...

A scientific paper has linked Jupiter with solar cycles.

The [paper](#), published in *Solar Physics*, predicts that the Solar Cycle 25 maximum will take place in 2026 and reach an amplitude similar to that of Solar Cycle 24. "This article deals with the prediction of the upcoming solar activity cycle, Solar Cycle 25. We propose that astronomical ephemeris, specifically taken from the catalogs of aphelia of the four Jovian planets, could be drivers of variations in solar activity, represented by the series of sunspot numbers (SSN) from 1749 to 2020," the abstract reads. "We conclude with a prediction of Solar Cycle 25 that can be compared to a dozen predictions by other authors: The maximum would occur in 2026.2 (± 1 year) and reach an amplitude of 97.6 (± 7.8), similar to that of Solar Cycle 24."



SEA-PAC Cancels In-Person Convention

[SEA-PAC](#), designated as the 2021 ARRL Northwestern Division Convention, will not take place as an in-person gathering this **June**. "The SEA-PAC Executive Committee has been closely monitoring the continuing COVID-19 pandemic situation and has determined that the safest course of action for all is to cancel the 2021 in-person event," SEA-PAC 2021 Chair John Bucsek, KE7WNB, announced this week. "This decision was based on the uncertainties of more COVID outbreaks, vaccine availability to all, and the probable social distancing requirements. But most important, it is based on our genuine concern for the health and safety of you, the attendees, vendors, and presenters. We firmly believe that providing our ham radio community with a safe and quality convention experience is paramount." Bucsek said the SEA-PAC Committee is exploring alternative online and on-air activities. [This 1st appeared in January – ed]



Announcements

- Tom Callas, KC0W, has announced that he's activated Saipan (KH0) for the first time on 60 and 160 meters FT8. "The 160-meter pileups have been massive," he reports. Do not call on his transmit frequency.
- Members of the West Bengal Radio Club (VU2WB) in India are celebrating United Nations World Radio Day, February 13, with the special call sign [AT2WRD](#). Operation will continue until February 20.
- **International Space Station (ISS)** - Radio amateurs and others may listen for ham radio activity from the ISS by monitoring **145.800 MHz**.

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

"Whether we're talking about socks or stocks, I like buying quality merchandise when it is marked down." . . . Warren Buffett

Select DX News (QRV = Ready! or Are you Ready?)
ARLD006 DX news

This week's bulletin was made possible with information provided by F8DVD, 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.

TUNISIA, 3V. Ash, KF5EYY plans to be QRV as 3V8SS during the CQ World Wide RTTY WPX contest as a Single Op/All Band/Low Power entry. QSL via LX1NO.

VIET NAM, 3W. Sebastian, SP5FAR is QRV as 3W9FAR from Da Nang **until March 21**. Activity is in his spare time on the HF bands using SSB and various digital modes. QSL to home call.

TOGO, 5V. Daniel, HB9EHD is QRV as 5VDE **until February 20**. Activity is on 40 and 20 meters using FT8. This includes being active on Satellite QO-100. QSL direct to home call.

SERBIA, YT. Members of the Serbian CW Club are QRV with special event station YT165TESLA during **all of 2021** to commemorate the 165th anniversary of Nikola Tesla's birth. QSL via YU1MM.

MALDIVES, 8Q. Sergei, RU3AN is now QRV as 8Q7SZ and is here **until February 15**. QSL via bureau.

MOZAMBIQUE, C9. Bruno, CS7AMN will be QRV as C91BVA from Maputo beginning **February 18**. Activity will be on 80, 40, 20, 15 and 10 meters using SSB and various digital modes. QSL via LoTW.

SPAIN, EA. Members of the Radio Club Henares will be QRV as EH4WRD **on February 13** as part of World Radio Day. QSL via EA4RCH.

FRANCE, F. Francois, F8DVD will be QRV as TM18AAW from Macon **from February 14 to 28** in celebration of the 18th Antarctic Activity Week. QSL to home call.

ITALY, I. Special event station IQ3DD is QRV **until February 28** to recognize the FIS Alpine World Ski Championship being held in

Cortina. Activity is on 160 meters to 23 centimeters, using CW, SSB, and various digital modes. This includes some activity on Satellite QO-100. QSL via bureau.

WAKE ISLAND, KH9. Tom, NL7RR plans to be QRV as KH9/NL7RR **beginning February 15 and will be here for 90 days**. Activity will be in his spare time on 40 and 20 meters using SSB, Time permitting, he hopes to operate as KH9/NL7RR on 40 and 20 meters using SSB. QSL via AL7JX (d/B).

DENMARK, OZ. Special event station OV0JUTLANDIA is QRV until the **end of March 2021** to commemorate the humanitarian mission of the Danish hospital ship Jutlandia during the Korean War. Activity is on the HF bands using CW, SSB and various digital modes. QSL via LoTW.

PITCAIRN ISLAND, VP6. Meralda, VP6MW has been QRV on 20 meters using SSB from around 1530 to 1630z. QSL via W0VTT.

KUWAIT, 9K. Members of the Kuwait Amateur Radio Society are QRV as 9K60NLD **during all of February** to celebrate Kuwait's independence. All stations from Kuwait may also use the prefix 9K60. QSL 9K60NLD via 9K2RA.

FEDERAL REPUBLIC OF GERMANY, DA. Special event station DC220GERKE is QRV until the **end of April** to commemorate the 220th birthday of Clemens Gerke, a German pioneer of telegraphy who revised Morse Code to its present form. Activity is on the HF bands. QSL via DJ6SI.

SCOTLAND, GM. Gareth, M0MOL is QRV as MM0MOL/p from the main island of Shetland, IOTA EU-012, **until the end of March**. Activity is on the HF bands using QRP power, after work, and mainly during his evenings. QSL to home call.

ZAMBIA, 9J. Brian, 9J2BO is usually active on 40 meters using CW from 0330 to 0500z. **[listed Jan.'21-ed]** QSL via EA5GL.

ANDORRA, C3. Joan, C31US is usually QRV on 40 meters using CW between 0700 and

800z. [listed Jan.'21-ed] QSL to home call.

SVALBARD, JW. Erling, LB2PG is QRV as JW/LB2PG from Bear Island, IOTA EU-027, **until June 1**. Using SSB on 80 to 20M . QSL #1

INDIA, VU. Special event station AT2YAR is QRV **until March 1** to celebrate 100 years of amateur radio. QSL via VU3ZHA.

NETHERLANDS, PA. Special event station PC19HOPE is QRV **until March 10** to support efforts in containing the COVID-19 pandemic. QSL via PA7HPH.

POLAND, SP. Members of the SEDINA Contest Club are QRV with special event call sign SQ0MORSE from Szczecin **until April 30** to celebrate the 230th anniversary of the birth of Samuel F. B. Morse. Activity is on various HF bands. QSL via SP1EG.

UK SOVEREIGN BASE AREAS ON CYPRUS, ZC4. Garry, 2M1DHG is QRV as ZC4GR for the next few years. [listed Jan. 2021 - ed] Activity is mainly on 40 to 10 meters using SSB and FT8, and possibly SSTV, PSK31 and WSPR in his spare time. QSL via EB7DX.

Long Term (more than 1 month)

REPUBLIC OF KOREA, HL. Kang, DS4DRE is QRV as DS4DRE/4 from Komun Island, IOTA AS-060, until the **end of January, 2022**. Activity is on 80 to 10 meters using CW and SSB. QSL #1

ARGENTINA, LU. Special event station L21RCA is QRV **during all of 2021** to celebrate the 100th anniversary of IARU member society Radio Club Argentino. QSL via LU4AA.

FINLAND, OH. Members of the Finnish Amateur Radio League are QRV during **all of 2021** with special event call OH100SRAL to celebrate their 100th anniversary. QSL#3

ZAMBIA, 9J. Rob, IK2LON is QRV as 9J2RD while **living in Ndola. [Listed Dec. 2020 – ed]** Activity is on the HF, VHF and UHF bands using SSB, RTTY and FT8. QSL via IZ8CCW.

JAPAN, JA. Special event call 8N1IZA is QRV **until March 31** to celebrate the 50th anniversary of Niiza City.

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.

ANGOLA, D2. Paulo, CT1FJZ is QRV as D2FJZ from the Province of Cuando-Cubango until **September 2021** while on work assignment. Activity is on 80 to 10 meters using SSB. QSL direct to home call.

JAPAN, JA. Members of the Yoneyama HF Club (JR0YHF) will be operating special event station 8J0K 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. [until March 2021-ed] Activity is mostly on SSB. QSL #2

CHATHAM ISLANDS, ZL7. Operators Chris, ZL2DX and Catherine, ZL2QT are QRV as ZL7DX and ZL7QT, respectively, from Waitangi, IOTA OC-038, (**until July 2021 – ed**). Activity is on the HF bands and 6M EME. QSL via M0OXO.

Until 2022

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.

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 RM0L.

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

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™](http://www.arrl.org/ExamReview) 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

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, 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 – Brian, AB6UI (President)

Southern California Band Plans:

Tasma – 2 Meters

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

220 MHz Spectrum Mngmnt Assoc. of So. Ca

220SMA BAND PLAN

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

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

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

W1AW Operating Schedule (Edited - Note: Local time stays the same, UTC varies w/DST)

Morning Schedule:

Winter	Summer	Local	Mode	Days
1400 UTC	1300 UTC	(6 AM PDT)	CWs	Wed, Fri
1400 "	1300 UTC	(6 AM PDT)	CWf	Tue, Thu

Afternoon/Evening Schedule:

2100 UTC	2000 UTC	(1 PM PDT)	CWf	Mon, Wed, Fri
2100 "	2000 "	"	CWs	Tue, Thu
2200 "	2100 "	(2 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM
2300 "	2200 "	(3 PM PDT)	DIGITAL	Daily, Digital Bulletin
0000 "	2300 "	(4 PM PDT)	CWs	Mon, Wed, Fri
0000 "	2300 "	"	CWf	Tue, Thu
0100 "	0000 "	(5 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM
0200 "	0100 "	(6 PM PDT)	DIGITAL	Daily, Digital Bulletin
0245 "	0145 "	(6:45 PM PDT)	VOICE	Daily, Voice Bulletin
0300 "	0200 "	(7 PM PDT)	CWf	Mon, Wed, Fri
0300 "	0200 "	"	CWs	Tue, Thu
0400 "	0300 "	(8 PM PDT)	CWb	Daily, CW Bulletin, 18 WPM



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

Notes:

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

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

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

Starting in Dec. W1AW will transmit Qualifying Runs up to 16 times per month.
 Time is PST: [10 – 35 wpm – **Bold 35 – 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
Feb.				2/17		2/19	2/18	2/22	2/24	2/25	2/26		
Mar.		3/1	3/2	3/4	3/5	3/9	3/10		3/11		3/12		
Mar.	3/16		3/18	3/17		3/19		3/22	3/24	3/25	3/26		

West Coast Qualifying Runs:

Wed. Feb 24 @ 6 PM HST (0400 UTC Feb. 25) on 7047.5 and 14047.5 kHz by KH6TU 10 – 40 WPM
 Sat. Mar. 27 @ 2 PM PDT (2100 UTC) on 3581.5, 7047.5, 14047.5 & 18097.5 speed 10 – 35 WPM

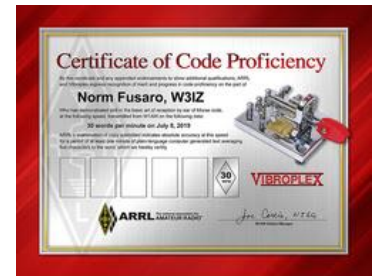
Earn your Code Proficiency certificate by legibly copying at least 1 minute of text by hand and mailing the sheet to: W1AW Qualifying Runs, 225 Main St., Newington, CT 06111. Include \$10 (check or money order) if this is a submission for your initial Code Proficiency certificate; \$7.50 if you are applying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

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

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 **Sunday, September 13, 2020 4 to 5 PM PST** (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.



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:	Mike, N6MHD	W6HAStationMgr at W6HA.com
WEB MASTER:	Mike, N6MDV	W6HA at W6HA.com
MEMBERSHIP:	Dale, WB6MMQ	W6HA at W6HA.com
SCRRBA REP:	Ray, WA6NVL	WA6NVL at ARRL.net
MEETING HOST:	Dale, WB6MMQ	W6HA at W6HA
Asst. Host:		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 Coorndator:

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)

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.
