



The Rumble

Next Meeting
Mar 1, 2023 6PM

Program
 2023

Meeting Location:

Northern AZ Fire Station #31,
 2600 Northern Ave

From the Pres:

I would like to welcome all new members to this great group of ham radio operators. HARC is the oldest radio club in Kingman and this year we will be celebrating our 50th anniversary in July, so let's all make this a year to remember.

Please join us in our activities that the club puts on and be a participating member of the club. Don't forget we carry Andy Devine's call sign and we should be proud of that and honor the call sign by using WB6RER during every event we do.

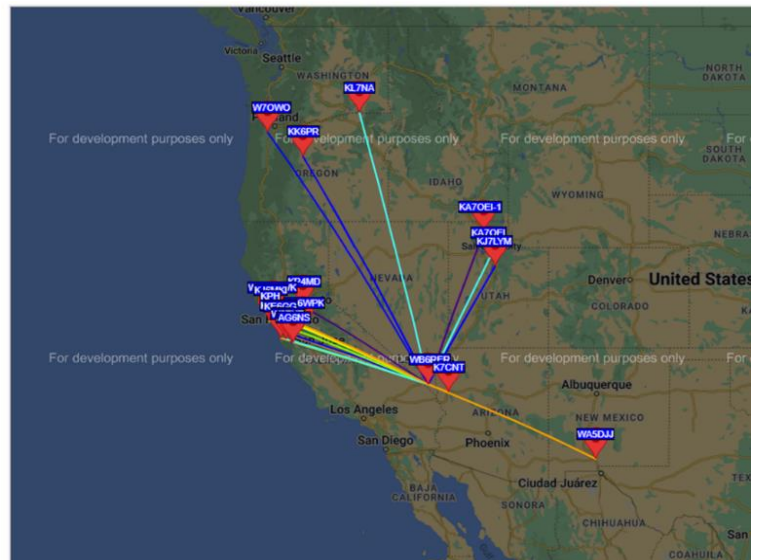
The balloon project is coming along, we are doing testing of the U4B tracker modules and the frame work that holds the hardware. This has turned out to be a bit of a challenge.

The total weight for the balloon has to be very very light, like under 20 grams. The reason for this is because the balloon has to lift off with very little hydrogen (H2) to allow for gas expansion at our estimated float altitude of between 30,000 and 45,000 feet. The balloon has to reach this critical altitude zone to be above any weather systems.

Weather will bring it down. The balloons have to be pressure tested to make sure there are no leaks. They must hold pressure for at least a week. The WSPR transmitter testing was a success.

Craig KK7JDL hung the complete test unit up in the air from his 80 loop antenna which is 35' high. The transmitted 20 meter WSPR signals were heard all over the West and elsewhere (picture). If we do our homework and build this light enough, it should be a good flight. We will let everyone when the first launch will be.

Thank you, Rick/K7CNT 73



From the Secretary:

NEW! – Monthly Challenge

If you're a member of the North American QRP CW Club (NAQCC) you probably are aware of their monthly Alphabet Challenge. For those who aren't aware of it, each month there is a story published concerning some scientific and/or technical topic and a short list of phrases associated with that article are the challenge for the month. The challenge is to use the letters in the callsigns of your QSO partners for the month are used to spell out the month's phrases.

We think it would be a fun thing to do as a club, although in a scaled down way and more to do with local topics, although technical and scientific topics could pop up from time to time. I'll post more detailed information on our *groups.io* this month along with the rules for the Monthly Challenge.

The March Challenge will run from 00:00 UTC March 1st to 23:59 UTC March 31st. Your submission is due no later than 17:00 UTC April 14th. We will post the results in April's Rumble. This isn't a contest, just a friendly competition for our club members.

Without further ado, here is the March Challenge Topic and Phrase.

LOCAL PEOPLE

If you're in Kingman, or the surrounding areas, you should be familiar with the word Hualapai. There's a mountain, park, resort, and even a radio club that use the word. But do you know what it means?

The word Hualapai is a word from the language of the local Indian tribe, the Hualapai Tribe, which means, "People of the Tall Pines". If you've wondered about the pine trees in our club's logo, they are there because of the meaning of Hualapai. For those who may not know, it's pronounced Wal-lah-pie.

An Executive Order in 1883 established the Hualapai Reservation, encompassing around 1 million acres along 108 miles of the Colorado River and the Grand Canyon. The Reservation extends through Mohave, Yavapai and Coconino counties and has its capitol in Peach Springs. The town of Peach Springs also served as the inspiration for the town of Radiator Springs in the Pixar movie "Cars".

Honoring the heritage of the Hualapai Tribe, the March Challenge phrase is PEOPLE OF THE TALL PINES.

Don't forget, I'll be posting more detailed information, including the Challenge Rules, a couple of examples of how to track your progress on the Challenge Phrase and the Tracking/Submission Form for March on the club's *groups.io*. Keep an eye out for those items there.

73 de KG6ECW

From Your Vice President

We will start off with a big thanks to Craig (KK7JDL) for all the work that he has done for the HARC balloon testing. This includes the practice launch on Feb 18, 2023 at southside park in Kingman Az. Another big thanks for the help on setting up the club trailer at southside park: Dean KK7IBM, Craig KK7JDL, Mike KG6ECW, Rick K7CNT, Don KB7USA and Jerry KC7RCB for showing up to the trailer outing.

A little update on the HARC swap meet: we have talked to KRMC and have gone back and forth with the business issues of the use of their parking lot for the swap meet and we are just waiting on the final go ahead. All looks

good to be able to put on the first annual HARC swap meet here in Kingman this coming May. I will forward updates as I get them.

Weekly HARC 2m net: as net control, I'm setting up Tuesday night, March 7 to be doing emergency power drills for the net. It will be emergency power only that night (i.e. battery power, generator power). Mobile units or handhelds will also work. Note that if using a handheld, make sure you can get to a place to access the repeater.

The following Tuesday, March 14, after the emergency power drill, we will be running a simplex 2m net on 146.580. This can be emergency power or standard power. We are doing this to prepare for your testing of equipment. Let's all try hard to make these two 2m weekly nets as they are very important to get set for an emergency.

HARC FOX HUNT: this will be the official First Annual HARC fox hunt, so get your antennas (Yagis) built and ready. The HARC fox hunt will be on March 25. Start time is 11AM at the Lewis Kingman Park on Andy Devine Ave. The fox hunt will run till approximately 2pm, or when everyone has found the fox.

Don, KB7USA, will be going out to set the fox and everyone can join in the hunt. Once found, please take one of the tickets that is on the fox; then leave the area, so others have the enjoyment of finding the fox. There will be a drawing at 2pm at the Lewis Kingman Park for prizes for the tickets from the fox. Here is a link to a "DIY" (do it yourself) video on the tape measure Yagi antenna: <https://youtu.be/BmHoQrDfw-0>

Thoughts on club activities and participation: we would like for all members to share in their interests. All ideas for things that interest you are greatly appreciated. Feel free to express ideas that we can consider implementing into a club activity. We are trying to get more members involved in planning, as it seems that the same people do most of it. Let us know your interests and explore how we can further those interests, plus asking about subjects you might know little or nothing about.

I know in the past that there was not always much to do, but last year HARC had a good time at Field Day and did an incredible showing in Route 66 On The Air. Let's try and keep this trend going and get more involved in our club and our activities. We are not saying that you have to do everything, but let's try and do more. The new officers have a vision that we can bring back the old days of ham radio with lots to do and participate in. Let's continue to keep the WB6RER call on the map and show

the world that the oldest ham radio club in Kingman, AZ is here to stay and is growing.

HARC UPCOMING EVENT LIST

March 1 Club meeting, Kingman Fire Station on Northern Ave at 6:00PM.

March 7 7:00 PM Tuesday 2M Net Emergency Power.

March 14 7:00 PM 2M Net Simplex 146.580.

March 18 Alan Stevenson estate sale for HARC members from 10 AM to 3 PM 4220 N. Van Nuys, Kingman, AZ.

March 25 HARC First Annual Fox Hunt from 11:00 AM until 2:00 PM. Starts at Lewis Kingman Park on Andy Devine Ave. We reconvene at 2:00 PM for the prize drawing.

UP COMING OPERATING EVENTS

(the following events can all be found on-line for rules, etc.)

Walk for the Bacon QRP Contest 0000Z-0100Z Mar 2 and 0200Z-0300Z Mar 3

VHF-UHF FT8 Activity Contest 1700Z-2100Z, Mar 8

South America 10 Meter Contest 1200Z, Mar 11 to 1200Z, Mar 12

Stew Perry Top band Challenge 1500Z, Mar 11 to 1500Z, Mar 12

Oklahoma QSO Party 1500Z, Mar 11 to 0200Z, Mar 12 and 1500Z-2100Z, Mar 12

Idaho QSO Party 1900Z, Mar 11 to 1900Z, Mar 12

Wisconsin QSO Party 1800Z, Mar 12 to 0100Z, Mar 13

VHF-UHF FT8 Activity Contest 1700Z-2100Z, Mar 15

Virginia QSO Party 1400Z, Mar 18 to 0400Z, Mar 19 and 1200Z-2400Z, Mar 19

CQ WW WPX Contest, SSB 0000Z, Mar 25 to 2359Z, Mar 26

Louisiana QSO Party 1400Z, Apr 1 to 0200Z, Apr 2

Mississippi QSO Party 1400Z, Apr 1 to 0200Z, Apr 2

Missouri QSO Party 1400Z, Apr 1 to 0400Z, Apr 2 and 1400Z-2000Z, Apr 2

Florida State Parks on the Air 1400Z-2200Z, Apr 1 and 1400Z-2200Z, Apr 2

A Recent Solar Flare and how it affected radio communications:

When NASA/NOAA reported that a X2.2 solar flare hit about 2000Z Friday (just before the start of the A.R.R.L. 10-meter Contest), I wasn't sure what to expect. X-class flares can be nasty to HF. At that time, 20 was wiped out, there were a few signals on 15 but 10 had more pockets of activity. Not normal 10m but at least some signals. When the flare affect subsided about 45 minutes later,

10 was hot, 15 was "ok" but 20 still disturbed. About the best I have heard 10m since moving here 20+ years ago.

73, Bob K8IA
Arizona Outlaws Contest Club

A closing comment from the Pres:

The board members truly do appreciate your membership. If anyone needs any help that we can provide, please just ask us. If we can help you, we will.

The repeater relocation is moving forward, we are making progress. The board members will let everyone know when it goes online. I want to thank Alyce and Tom Ingle for hosting the repeater while we find a new home for it.

Rick Cooper
73 and God bless

ANTENNA QUESTION

Did you know that modeling antenna patterns can be fattening? Which antenna are these 3-D "patterns" for??

- Dipole
- Yagi
- EFHW
- Vertical
- Magnetic Loop



- Dipole
- Yagi
- EFHW
- Vertical
- Magnetic Loop



- Dipole
- Yagi
- EFHW
- Vertical
- Magnetic Loop



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