

KB7ARA

Kamiak Butte Amateur Repeater Association

Fall 2012 Edition

KBARA Gazette

KBARA's D-Star Repeater Information



Repeater owner is Pat, K7HRT: **Digital Voice B 443.125 + 5.00**

Veradale in the Spokane Valley **Digital Voice A 1293.300 - 20.00**

Digital Data A 1249.000 RPS

Different, Not Difficult

Questions on D-Star please ask Pat, K7HRT, Randy, KF7RVY or Scott, KA7FVV.

2012 Annual Meeting and Campout Report

This years annual meeting and campout was held the weekend of July 28th at Boyer Park on the Snake River Southwest of Colfax. We all had a fun time at the campout. The minutes of the meeting are as follows:

KBARA Annual Meeting July 28th, 2012 Boyer Park Campout, Colfax Washington

Meeting called to order at 3:08pm

Introduction of Officers/Officials

President's Report: Club is advancing, and we need to keep up with all the changing modes & products. Also thanks everyone for all their work and time to keep this system going. MMSP 17/0 to accept. (Motion made, seconded, passed)

Vice President's Report: Newsletters been going great. If you have anything you would like to add, please let Scott know. MMSP 17/0 to accept.

Secretary's Report : Read minutes of last meeting. MMSP 17/0 to accept.

Treasurer's Report:

Beginning Balance Totals : \$5,019.50

Total Deposits : \$3,725.40

Total Spent : \$3,962.32

Current Balance : \$5,941.30 (continued on page 3)



Like us on
Facebook



Even though KBARA is not on Twitter, it is a great tool for hams to make schedules for QSO's.

From the Desk of our President

Hello:

Well wow what a year this has been, so far! Lots of doings in the last few months that have really put KBARA on the front edge of both technical advancements and membership.

The Spokane Hamfest has come and gone and once again, membership renewals and new memberships hit an all time high. Thanks to Jay K7ZUF for his generous donation of QRP Xmitter Kits to the first members who either renewed or joined.

Plans are underway for the development of a D-Star repeater addition to the KBARA System. This will take some investment. If you are interested in supporting this effort, please contact us. KBARA has been afforded a great opportunity and this could be a good way to get into "repeater ownership" and be on the cutting edge of technical advancement. At the Spokane Hamfest this year one ham mentioned how he likes D- STAR because there's always someone to talk to. Its not uncommon to listen to D-STAR and hear people from the Central Europe, the UK, the US, Japan, and Australia. What makes D-STAR different is that this occurs every day and there have been a lot of friends made because of D-STAR. Hopefully KBARA can bring this ability to a hand held or radio near you.

Fall soon to be winter is here once again and I'd like to offer up a BIG BRAVO to the Tech Crews, John, Glen, Scott, et'al for their devoted attention to maintaining and making our system one of the best around, AND thanks to all the members for their continued support. YES!

The annual KBARA Christmas get together is in the works. Time and place to announced shortly. As always I'm looking forward to meeting and greeting all the KBARA family and friends..

73 for now.

Duff Johnson
WA7BFN



2012 Annual Meeting and Campout Report continued...

KBARA was getting fees for having a savings account, so Betsy has now closed the savings account and everything is now in the checking account. Also provided a list of the current members (125) and will be stored with the minutes. MMSP 17/0 to accept.

Repeater/Equipment Owners Reports:

W7OE : Have not yet talked with Karl about the noise on Mica, or using a "sniffer". Noise problems seems to be intermittent. The "Jay-Pole" antenna seems to be working just fine. Mark still has the equipment ready for Look-out Pass, and Bear and Mark are ready to go; it's just finding the time to get up there.

KD7DDQ : Walla Walla seems to be working great. Would like to get some help with moving Charlene's beam antenna to her new ranch.

N7ZUF : 2 meters and 6 meters repeaters are working well. There were 2 shut downs since the last meeting. Once was for icing on the antenna, and the other was to re-crystal the repeater. AAT filter seems to not work. Also, it was brought up that Jay is losing people who would like to use the repeater due to excessive conversation from KD7AAT. He asks that John not use the repeater without breaks in the conversation for others to get in.

W7HFI : Everything is working great. Kamiak is on the "bottom" when it comes to getting in during a pile up. If people can remember to leave pauses between transmissions, it would allow people from Kamiak to get in a lot easier.

KF7QLH : Took two trips to Stensgar. One was hell, and Glen now knows that W7OE is in a lot better shape. The other trip was just to show off the equipment and location. Thanks to those that went with us! Also, we think that we can add in the \$15 membership information back to the preamble for the daily net. Even though we are back on a reflector, we don't think it's that big of a deal.

KF7RVY : Echolink is working fine. Randy is moving locations, and some time in August the Echolink will be down for up to a couple of weeks. Also discussed issues between E/W Tiger and the Evergreen Intertie.

KD7AAT : If there is no net control, so be it. People are busy during the summer, and if for some reason there is no net control available, someone will either jump in, or we can just go without.

Also, the podcasts on the KBARA.ORG website are no longer available. John was spending lots of time on them, and when they were no longer available, nobody seemed to mind. So, the streaming audio is still available on the website, but podcasts are no more.

Old Business : Nothing Pending

New Business : Request for funds:

Naneum/Baldy Site Rental : \$300.00 MMSP 17/0

Spokane Hamfest Seed Money: \$400.00 MMSP 17/0

Meeting this Thursday night for Hamfest agenda.

Guest will be in from CT as a speaker at the Hamfest.

Raffle tickets are selling well. Still looking for more door prizes.

Discussion of new D-Star repeater owned by K7HRT, Pat O'Dea.

Motion to welcome Pat and his equipment to KBARA, and KBARA to offer support for the digital equipment.
MMSP 17/0

Motion made to spend \$250 for wifi yagi antennas to test "beaming" internet from Spokane Valley to Mica Peak.
MMSP 17/0

Elections : All old officer's re-elected. MMSP 17/0

Next meeting will be in September. Yaaaaahooooooooo!

Meeting adjourned at 4:09pm

Glen Ahlborn, KF7QLH Secretary, KBARA

Spokane Hamfest 2012

The 36th annual Spokane Hamfest has come & gone, & was enjoyed by nearly 500 Hams. Held at University High School in the Spokane Valley on October 22, it was once again the ARRL Washington State Convention, attracting Hams from all over the Pacific Northwest. ARRL dignitaries included Debra Johnson, K1DMJ, from League Headquarters, Jim Fenstermaker, K9JF, Grant Hopper, KB7WSD, Jim Pace, K7CEX, Mark Tharp, KB7HDX & Ed Stuckey, AI7F. Also, visiting from the west side of Washington State to present seminars were Bill Balzarini, KL7BB, Daniel Stevens, KL7WM & Gerard Hickey, WT0F. In addition to the many interesting seminars, "boat anchors" were plentiful this year, as well as more commercial vendors. And, as always, the "Junque Action" was a huge hit. A big "thanks" go to our fearless leader, Bob Meenach, AC7GP, and to our countless volunteers from the eight clubs hosting this yearly gathering. For Spokane Hamfest 2013, the initial planning meeting will be October 25, 2012, Thursday, 6:30PM at the Argonne Library in Millwood, and all are welcome to attend. Be prepared to discuss the participation requirements for the seed money clubs and have suggestions ready for the major raffle prizes.



Five New Cubsat Satellites launched from ISS

There are five new satellite that will be launched from a platform onboard ISS. These are small cubsats built on the new satellite standard. Satellites like AO-51 were 9" cubes. As launch opportunities for larger satellites are hard to find a smaller platform was developed. The cubsat platform is a 4" cube. The new Fox-1 replacement for AO-51 will be built on this platform. 2U or 3U indicates that 2 or 3 cubsats are stacked on top of each other increasing the size of the satellite. Below is information on the five satellites:

They were deployed with the Kibo robotic arm on October 4th. They currently about 10 minutes ahead of ISS in orbit.

The five cubsats on this mission include:

Raiko

<http://www.astro.mech.tohoku.ac.jp/RAIKO/> (Japanese)

2U cubsat, photography, Ku-band beacon

We Wish 437.505 mhz SSTV, Telemetry and CW

http://www.meisei.co.jp/news/2011/0617_622.html

Infrared camera for environmental studies

FITSat 1

<http://www.fit.ac.jp/~tanaka/fitsat.shtml>

High-speed data test, high power LED visual tracking

CW Beacon **437.250 MHz**,

FM Data **437.445 MHz**,

High speed data **5840.00 MHz**.

F-1 Vietnam Student CubeSat

On-board camera for earth observation mission

VX-3R1, **437.485 MHz** FM downlink

- o Solar cell power only, operates in sunlight only
- o Output power: max 0.3W, half-wave dipole antenna
- o Morse code beacon (10 chars) using PWM CW every 30 seconds

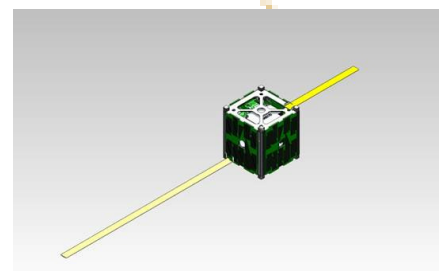
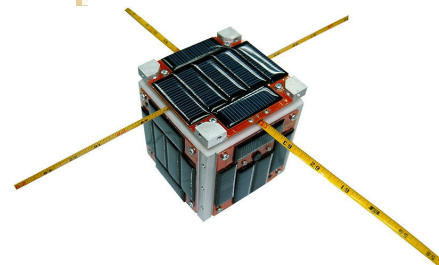
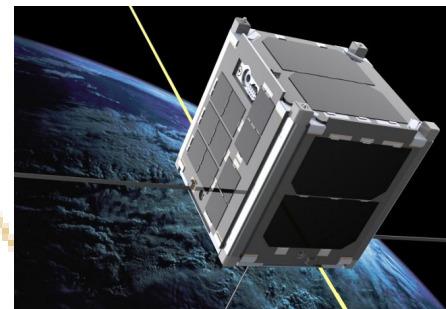
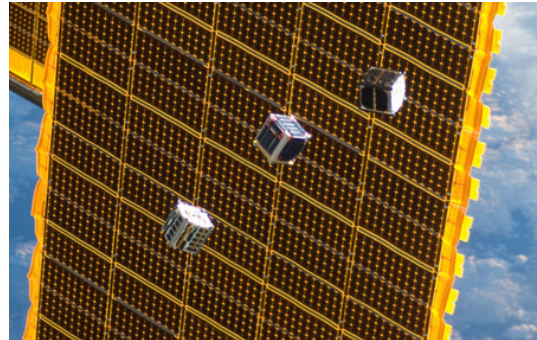
VX-3R2, **145.980 MHz** FM downlink

- o Rechargeable battery, operates in dark and sunlight
- o Output power: max 1.0W, half-wave dipole antenna
- o AFSK 1200bps, half duplex, one AX.25 packet every 30 seconds

TechEdSat

<http://ncasst.org/techedsat.html>

<http://www.uk.amsat.org/5018> Downlink on **437.465 MHz**



Summer Repeater Repairs by John, W7OE

We have made a significant number of repeater repairs in the last couple of months. Our first project was to install a converted Motorola transceiver at the Lookout Site (147.02) as the new repeater. Mark, K7HPT (DN17), purchased several Motorola Mitrek two-way radios and converted them to 2-meter repeaters. The first installation was at Lookout and it worked immediately upon turning on the power supply. It worked so well that Mark reminds me of me when I was his age. We also discovered that the 70 cm link antenna system was compromised so we installed a 7-element yagi retained from the Stensgar site when we removed the autopatch. This gave us an extra 10 dbd gain over the old antenna (which was a log periodic enclosed in a case).

The anxiety returned when we discovered that the link antenna from Mica Peak (147.38) to Lookout looked like Rosie O'Donnell without makeup at 4:21 A.M. That (specifically the antenna hi hi) was replaced with a commercial-grade 7-element yagi (10 dbd gain) and we were able to reestablish the link between Lookout and Mica. Both users of the Lookout repeater reappeared like panhandlers at 3rd and Division after the bars close.

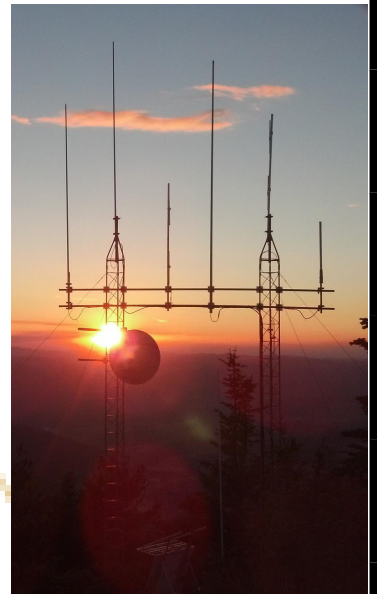
Just like the Shamwow commercial, there's more! We had a bad variable resistor in the Stensgar (147.36) controller. The correct setting was worn out like a Cougar defensive lineman during the fourth quarter of the Oregon game. Glen (KF7QLH), Mark (K7HPT), and I went to Stensgar and replaced the variable resistor. So the joke should go like this:

"How many hams does it take to replace a resistor?" "Three. One to drive the truck, one to open the gate, and one (who knows what he's doing) to do the work." Its like the difference between a Mounds Bar and an Almond Joy. It is a little better with a couple of nuts along for the ride. We also discovered that Mark's soldering sucks.

Literally! He had an attachment that sucked the old solder off the old part and its attachment to the printed circuit board. Aside from the repeated phone calls from John-Boy (KD7AAT) to Glen, the trip was enjoyable.

Back to the Shamwow commercial, there's even more! We have ordered a commercial 1.25 meter link antenna to be installed at Mica Peak. This is a 5-element Yagi (9 dbd gain) to replace the 3-element Yagi damaged by ice over the last 15 years. I have proved, however, that silicone sealant works great holding elements together. Like Terry Bradshaw, it ain't pretty but it works well. Parton me for the silicone joke. We also plan to replace the coax on this and the other recently installed link antenna. We have also secured a 4-bay repeater antenna for use at Mica Peak. This will give us an extra 6 dbd gain over the Jay Pole built by N7ZUF. The Jay Pole will be used with the D-Star repeater. Speaking of Jay, he has offered to help rewire the Mica Peak controller to help reduce the noise on the repeater.

So I have confirmed, without equivocation, that I CAN get by with good looks and personality as long as I know people who know what they are doing. Like the Shamwow commercial, the antennas were inexpensive but the shipping and handling charges were brutal. What did you do this summer? **John, W7OE**



IRLP Simplex Node and Net Information by Glen, KF7QLH

Hello to all members!

I just thought that I would include a little tid-bit about KBARA's Simplex IRLP node. We are currently running a stand-alone IRLP node on 147.400 frequency, simplex. It does require a 100hz tone. There are no access codes to dial out, and it's free for anyone to use. The node is hosted by Mike, KF7EHT in northwest Spokane. The node can be heard from all the way to Post Falls, ID. If you have any questions about how to use the IRLP, check out the information page at www.kbara.org or feel free to contact Glen, KF7QLH with any questions!

We currently have the node set up to connect to various nets through the week. Here is a list of the nets:

11pm - 2am nightly - The Insomniac Net.

7pm - 8pm Monday night - Vancouver BC West Coast Net.

7pm - 9:30pm Tuesday night - North American Handshaker's Net.

6:30pm - 8pm Thursday night - World Wide QSO Party

There are other nets from time to time on the weekends, and it also links up to the Alaska Reflector every weekday at 10am through noon local time. These are some fun nets, and if you get the chance, feel free to check in with them! You are also welcome to use the IRLP to bring up your own nets or nodes. It's open for everyone. Special thanks to Mike - KF7EHT for keeping this running for us!



Summits on the Air by Scott, KA7FVV

A interesting twist on the amateur radio hobby is Summits on the Air. This started in England and has expanded across Europe and into the states. SOTA is operating portable from a mountain top with emergency power. SOTA has two sides to it. One is a chaser. Home stations that attempt to contact activator stations. Activator stations are the stations operating portable from the mountain tops. Activators post their activities

on the SOTA web site. <http://www.sota.org.uk>. A few rules apply. No operating from a vehicle, the last 100 feet must be ascended by foot and power must be generated by batter or other non fossil fuel means such as solar. Most SOTA activators have some type of portable HF station. Most are QRP and have some type of portable antenna. Contacts are not restricted to HF only. Actually SOTA got it's start with VHF/UHF contacts as long as they are simplex and not through a repeater. Portable setups a lot of times are HF Backpacks. A great site for this sport can be found at <http://hfpack.com>. I have built a hf pack with a Icom 703 QRP HF Radio, TRS-80 and HVT-400 HF antennas and a 7 amp 12 volt battery. Glen, KF7QLH may try some activations probably in the spring. Peaks have so many points assigned to them. For example Mt. Spokane is 6 points. That increases to 9 if contacts are done in the winter months. An activators and chasers accrue points. If 1000 points are achieved, the Mountain Goat award for activators and Shack Sloth award for chasers are given out..

Amateur Radio License Testing Sessions

Chewelah, WA, ARRL VEC

Contact: Karl Miller, WX7DX: (509)258-8922 email: wx7dx@msn.com



Coeur d'Alene, ID, ARRL VEC

November 12, 2012; December 10, 2012; Second Monday of every month starting at 5:30PM at the Search & Rescue Building, 10865 N. Ramsey, Hayden, ID 83835 near the South end of CDA Airport; contact John Hollar, Jr., N7JU, (208) 968-0703 email: n7ju@roadrunner.net

College Place, WA, ARRL VEC

November 11, 2012, 2PM, Walla Walla University, 100 SW 4th 1st Door Bldg, Chan Shun Pavilion, Lecture Hall RM 154, College Place WA 99324-9999, contact Mable Babbitt WB5AVH, (509)525-7003, email: wb5avh@msn.com

Colville, WA, ARRL VEC

Contact Tommy L Howe, (509)684-5565; email: thowe@hotmail.com

Kennewick, WA, ARRL VEC

November 18, 2012; 2:00 PM (Walk-ins allowed); Boy Scout Office, 8478 W Gage Blvd, Kennewick WA 99336-1075; contact: Michael Tesky, KC7CCK (509)783-6236; email: kc7cck@frontier.com

Lewiston, ID, ARRL VEC

Contact: Emmett McCormick, NA7EM, (208)798-3279, email: na7em@arrl.net

Pullman/Moscow, WA, ARRL VEC

Contact: Tom Storer, KI6DER, (509)334-6979; email: KI6DER@AmSat.org

Republic, WA, ARRL VEC

Contact: Sam Jenkins (509)775-2923; email: samhbi@aol.com

Spokane, WA, ARRL VEC

October 20, 2012; November 17, 2012; December 15, 2012; all at 12 PM; Outpost (behind Conley's Restaurant), 12624 E Sprague Ave, Spokane Valley WA 99216; contact: Mary Qualtieri, AA7RT, (509) 991-2192; email: aa7rt@me.com

Spokane, WA, W5YI VEC

October 27, 2012 (Parish House at St Mark's Lutheran Church); December 15, 2012; all at 10AM; St. Mark's Lutheran Church Library, 316 E 24th Ave, Spokane WA 99203 (corner of 24th & Grand); contact: Betsy Ashleman, (509)448-5821 email: n7wrq@aol.com

Please bring two pieces of identification, one having a photo, radio license, if any, plus a photocopy, & any outstanding Certificates of Completion, plus a photocopy, & Social Security number or FCC Registration Number (FRN), and cash or check made out to the "ARRL" (\$15) or "W5YI" (\$14). If you pass a lower class license, you may sit for the next highest class on the same exam fee. You may retake any failed exam for an additional fee at the same testing session

The View From Kamiak Butte. By Jay Lopes, N7ZUF

I thought I would give a brief description of the setup on Kamiak Butte. Both the two and six meter repeaters are converted Motorola Mitrek radios, and each has an output of 60 watts. Dan Ransom, K7MM, originally converted the Mitreks for amateur use as 100 watt units but turned the power down to extend the lifetime of the radios. Both radios are connected to an S-COM 7330 controller and linked with a Midland radio which connects to the 223MHz Back-Bone link at Stensgar Mountain. Both repeaters have Duplexors and band-pass filters. An interesting story about the band-pass filters for six meters: both were originally cavity filters used for television purposes since the old analog television "channel two" was just under the six meter band. The filters are over seven feet tall and we were worried about them being damaged during shipping, so the seller of the first filter labeled the shipping container "Fragile Pediatric Medical Equipment". Considering how large the box was, the shippers probably thought it was an Iron Lung!



The power for the repeaters is a hefty DC power supply connected to the mains, it is backed up with a battery bank and an emergency diesel generator.

That covers most of the equipment on the ground, but one hundred feet (over thirty meters) above are the antennas on the tower. The Diamond antenna is for two meters and just above it is the thirteen foot (four meters) long stainless steel Pequod-1 six meter antenna which is the highest point on the tower. The 223MHz antenna is on the northwest side of the tower facing Stensgar Mountain.



I am proud to announce the Kamiak Butte Cup award. This award is given to those who can make a QSO through either the two or six meter repeaters on Kamiak Butte at the longest distance and/or lowest power.

What gave me the idea to have this award was Mark Van Winkle, K7HPT's contact on the six meter repeater at 162 miles (261 km) outside of Republic Washington and David Kuhns, KD7MNI's contact on the two meter repeater at 211 miles (340 km) at five watts from Mt. Adams. As a fan of making distant contacts on HF and QRP, this is something for our members to compete about or extend it to other repeaters in the system. This contest is open to those outside of K.B.A.R.A.

I found out about KD7MNI's contact on a Youtube video about his 2010 radio adventures on top of Mt. St. Helens. I contacted him and I asked him to write a story for us about his contact with Kamiak Butte from Mt. Adams. Please enjoy his article below.

73,

N7ZUF

From Mt. Adams to Kamiak Butte: *How to do 211 Miles with an HT*

For my radio experiment, I brought the "usual" equipment: ice axe, crampons, GPS/altimeter, HT radio, and antenna...

During the fall of 2009, I was a college student at Washington State University in Pullman which meant I was on a tight budget and could not afford having my own HF equipment. Luckily WSU's club (W7YH) was up and operating for whenever I wanted to use HF but for my own personal experimenting, I was limited to the equipment I owned which amounted to a couple handheld VHF/UHF radios (HTs).

I found a number of ways to keep myself entertained using just HTs. I got into VHF/UHF satellites by homebrewing my own antenna system to work the birds. I used the system in college where my non-ham roommates always were wondering why I was pointing an antenna array into the sky.

Hiking and backpacking are large hobbies of mine, and in the interest of always be ready to communicate in an emergency, I always brought an HT with me into the wilderness. This developed into seeing which repeaters I would be able to reach while I was on a trip. The stock rubber duck antenna never got my signal as far as I wanted so I looked for a solution to increase my range while not compromising weight.

I built an extremely lightweight 2-meter yagi based off of a design by KDSIVP which was constructed out of an arrow shaft and some music wire for the elements. The way the antenna is constructed, the elements are easily removed from the shaft and can be stored within the hollow arrow shaft leaving a pole I could strap to the outside of my backpack. Another bonus was that the antenna was pretty cheap to make.

I would bring the antenna whenever I went backpacking or hiking and continued to see which repeaters I was able to hit, or if anyone would respond back on the national calling frequency. However, the record for furthest contact was made while climbing Mt. Adams.

Mt. Adams is the second highest mountain in Washington with an elevation of 12,281 ft and has always been one of my favorite trips to make. I always take the South Climb route at a leisurely pace. Day 1 consists of leaving the car at the Coldsprings Trailhead (5,600 ft), climbing to a location called Lunch Counter (9,000 ft) halfway up the mountain and making camp. Day 2 begins with waking up around 3 am to begin an "alpine start" to get up to the summit on hard, crisp snow. After summiting, climbers have a fun glissade (sledding without the sled) back to Lunch Counter, packing up the tent, and descending back to the car.

For my radio experiment, I brought the "usual" equipment: ice axe, crampons, GPS/altimeter, HT radio, and antenna. Along with my other gear, it's a pretty heavy pack. On day 2 of the trip, I woke up around 2:30 am, had a quick breakfast, and got my pack together for the ascent.

I opened up my tent flap and stepped outside—my headlamp cutting a swath through the darkness. Looming above me stood the dark shadow of the mountain ready to be conquered. I put on my crampons, shouldered my pack, grabbed my ice axe, and began my climb with the reassuring crunch of frozen snow and ice below my feet.

The others in my party had their minds set on reaching the summit, I had another goal on my mind—get as high up on the mountain as possible by 7 am to attempt to call into the KBARA net via the Kamiak Butte 2-meter repeater.

The subsequent hours consisted of going through the same monotonous movement which reminded me of climbing an endless staircase. Step, step, plant ice axe. Step, step, plant ice axe. Step, step, plant ice axe.

It was almost 7 am and I was just shy of the summit, but I knew I had to stop and get my radio equipment set up. I assembled the yagi, fumbling with my gloves on, and got the radio turned on and tuned up to the frequency. Looking at my GPS, I got the proper bearing to Kamiak Butte, pointed the antenna, and waited.

I knew it was a long shot, but to my surprise I heard the net controller come on to start the net. I heard the call for stations and replied back, "KD7MNI from the summit of Mt. Adams," followed by the controller repeating my callsign. The quick exchange proved how well the antenna worked, a 2-meter contact with 5 Watts across 211 miles. After a quick talk, I then packed up and climbed the rest of the way to the summit.

At the summit I took out the radio again to make a few more contacts. I called a repeater in Olympia and made a few more contacts. However, after each transmission, I heard what sounded like 2 or 3 repeater tones. I then realized that being on the summit of the second highest mountain in the state, I was keying up several repeaters that used the same frequency that were on opposing sides of the mountain.

I finished up by making simplex contacts on the national calling frequency—everyone seemed happy to talk with a climber on the top of Adams.

With a number of contacts made, summit pictures taken, and my group ready to start the descent, I began to pack up my gear to make the long trip back to the car.

All in all, it was a successful outing. I got to climb a mountain and play with the radio. The

trip was a great example that even with an HT, and a modest setup, amateur radio can be a lot of fun.

73,
David Kuhns
KD7MNI

KDSIVP Antenna Website:

<http://www.backpacking.net/makegear/yagi-antenna/index.html>

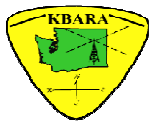
YouTube Video of Antenna Construction:

<http://www.youtube.com/watch?v=kPGmad2MMWM&feature=relmfu>

YouTube Video of Antenna Use:

<http://www.youtube.com/watch?v=nb6c9DdMkyc>





Please remember to renew your membership for 2013

Name: _____

Call Sign: _____

Address: _____

City/State: _____ Zip: _____

Telephone: _____ Amount Paid: _____

E-Mail: _____ ARRL Member #: _____

Would you rather receive the newsletter via computer, instead of receiving it in the mail? ____YES ____NO

Dues are a minimum of \$15.00 per year for individuals and \$20.00 for a family (all must be living at the same address). Dues are due January of each year. If they are paid between September 1 - December 31, they will be applied through the entire following year. And any additional amount going toward the Repeater Fund will be graciously accepted. To support **KBARA**, please send your contributions to:

KBARA, PO Box 30801, Spokane WA 99223-3013

Please visit our **KBARA** website for more information: <http://www.kbara.org>

Swap N Shop on the KBARA

If you didn't get enough radio equipment for just plain stuff at the hamfest or didn't get rid of enough of your equipment remember KBARA has a Swap N Shop page on our web site. Just follow the links on the left side of the page and email your information to John, KD7AAT and it will be posted for all to see.



Practical Amateur Radio Podcast

There are many amateur radio related podcast on the net today. One that stands out among the best is the Practical Amateur Radio Podcast. Hosted by Jerry Taylor, KD0BIK in Colorful Colorado. He is not to almost 60 podcasts and now has a PARP Plus edition with amateur radio happenings specifically for the week. He appeals to want to be, new and experienced amateurs alike. Check out his podcast and other activities at <http://myamateurradio.com>



KBARA Membership / Support Information: The KBARA repeater system consists of several privately owned linked Amateur Radio repeaters. It covers an area from northeastern Washington to northeastern Oregon, and from western Montana to central Washington. The KBARA system is also part of the Evergreen Intertie, an interconnected group of repeaters located in western Washington and Oregon. The primary purpose of the KBARA repeaters is to provide a means for emergency communications within the above areas, and secondarily for routine radio traffic. It makes possible a single system of mobile communications coverage, extending the limited range provided by any single repeater operation. The KBARA FM repeaters operate in the VHF bands and are linked by UHF radios. The repeaters' frequencies, call signs, locations and owners are as follows:

KB7ARA REPEATERS and IRLP Nodes

146.74 W7HFI Kamiak Butte, near Pullman, WA, owned by Bob, W7HFI, John, W7OE, & Mark, K7HPT
147.02 K7HPT Lookout Pass on I-90 on the Idaho-Montana border, owned by Mark, K7HPT, & John, W7OE
147.28 KD7DDQ Pikes Peak in the Blue Mountains, SE of Walla Walla, WA, owned by Ken, KD7DDQ & Jay, N7ZUF
147.36 KF7QLH Stensgar (Stranger) Mountain, near Chewelah, WA, owned by Glen, KF7QLH, & John, W7OE
147.38 W7OE Mica Peak, east of Spokane, WA, owned by John, W7OE
223.90 AK2O Stensgar (Stranger) Mountain, near Chewelah, WA, owned by Karl, AK2O
444.35 N1NG Mica Peak, east of Spokane, WA, with a 192.8 Hz tone, owned by Mike, N1NG
53.750 N7ZUF Kamiak Butte, near Pullman, WA, owned by Jay, N7ZUF

443.125 B KB7ARA Digital Voice D-Star DV A 1293.300 -20, DD A 1249.00 RPS

IRLP Node #7141 KF7QLH South Hill of Spokane, WA, owned by Glen, KF7QLH

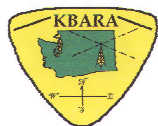
IRLP Node #3282 KF7QLH West Spokane, WA on 147.400 simplex, 100.0 Hz tone

Echolink courtesy of Randy, KF7RVY. Look for KF7RVY-R.

All licensed Amateur Radio operators are welcome to use this open repeater system. Your support would also be greatly appreciated.

Please visit these sites for more information: <http://www.kbara.org> and visit <http://groups.yahoo.com/group/evergreenintertie>

To support KBARA, please send your contributions to:



KBARA
PO Box 30801
Spokane WA 99223-3013

Annual support is \$15 per calendar year for a single membership and \$20 for a family membership. Dues are due in January of each year and if paid between September 1 and December 31, they will be applied through the entire following year. Also, any contribution will be gladly accepted to the Repeater Fund.

KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION

PO Box 30801

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