



KBARA Annual Meeting/Hamout and Field Day

by Scott, KA7FVV

We started the summer off with a bang by having a combo Annual Meeting and Field Day event. We were moving the Annual Meeting this year in hopes of having more participation. Rotary Park in Newport is a great venue but with the distance of the drive we saw reduced attendance over the three years that our meeting was held there. Combining Field Day with the meeting seemed to be a



good option to try. It ended up being very successful. We ended up with over 30 in attendance at the meeting. That is the largest turnout I have seen in several years. Thanks to everyone who attended. It was great seeing that large of a turnout.



All the officers were reelected except for our secretary, Valaire, KG7OWX. A special thanks to Valaire for her support of the club in the secretary position over the last year. Our new secretary is Dan, KG7ZCW. I want to welcome Dan aboard as our new secretary. Please see the minutes from

the meeting later in this edition. I would like to thank Craig, W7CDP for pursuing the design and purchase of new banners for our club events. We now have a great general KBARA banner and one for the Field Day GOTA station as well which Craig and Debbie, W7TSE ran during Field Day.

That brings us to Field Day activities. Craig and Debbie with the GOTA station, John, W7OE and Dan, KG7ZCW setup in the picnic shelter working CW. I was setup with PSK31 and





KBARA Annual Meeting/Hamout and Field Day continued

satellites. It was great seeing the participation of our newest amateurs as well. Matt, KI7NOO was making contacts with the GOTA station getting a taste of HF.





From the Ham Shack of our President

KBARA Members,

Welcome to Summer! We opened the summer season with a bang doing a combo event with our Annual Meeting/Hamout and Field Day. Please see the highlights of the event in this issue. This was such a success we are already on Richard's calendar for next year, June 23-24, 2018.

I am very happy to be your president for a third year in a row. I am glad to be at the head of this great organization with a great group of people.

The Board of Directors, myself and fellow officers will continue to work on updates to our bylaws I talked about in the last newsletter. We ran out of time to get them approved by the board and properly distributed per the timeline set forth in the bylaws. I will try and have those for release in the Spring 2018 newsletter.

You will be seeing some changes to the KBARA website in the near future. I am taking over the reigns as web master from Glen. Thank you Glen for being our web master and keeping our website up and running. Right now I am just planning on making some aesthetic changes.

73, Scott, KA7FVV, President KBARA



Kenwood TH-D74 Triband, APRS and DStar Handheld Review

by Jim, WA7VFQ

Finally last October, after over a year of announcements and plastic mockups at Ham Radio shows, Kenwood finally entered the DStar market with their version of a handheld DStar radio, the TH-D74. This was the first competitor for Icom, as Icom was an early adapter of the mode developed by the Japan Amateur Radio League and the Japanese government. DStar protocols were released in 2001 and in 2004 Icom released the first radios that would work with DStar. Now 12 years later, Kenwood has entered the market and it looks like they are working to make that market work.

The vaporware product was hinted at for year and when it hit the market it was designed to separate itself from the competition with some major differences. Besides having a DStar operating mode, it included a couple other features not available by Icom. The TH-D74 was a tri-bander and included APRS operation, two features not available before on a DStar radio. This made the TH-D74 radio a radio that was aimed at the US and European market. Japan does not include the 220 band on their band plan. In fact, I was traveling in Japan, in April this year and after a visiting radio store after radio store in the electronics section of town – not a Kenwood TH-D74 was to be found. You could find a brochure, and accessories that worked with other Kenwood radios, but that's all. The Japanese have not rushed to pay for a radio with a band they cannot use.

This year at the end of HamVention, there was a call for what we want next from Kenwood in regards to DStar radios. Kenwood's marketing department put out an all-call for details on our desires in what we want on their next rig – HT, Mobile, Desktop – or whatever would make us by then next latest and greatest in their DStar product line.

Sometime this winter, my Icom ID-51a Anniversary model took a header and my volume/control knob is now fused together. You can't change one without changing the other. As I waited for Icom to return my radio from repairs, the price was down on the Kenwood, so I decided to grab the one. Glad I did, it's a great radio that I've grown to enjoy. I will say, I am always comparing it in my mind with what I consider the gold standard – the Icom ID-51a. That said, I do love it and here are some details.

First, it is larger, considerably larger sitting side by side. However, the fit in my hand is just fine. It feels natural and comfortable and easy to reach and control everything. The standard battery is 1800mAh, which has more amp hours than the standard Icom ID-51a at 1150mAh. Icom does offer an upgrade battery, that has 1880 mAh.

Second, it has a color screen and a full numeric keyboard. The color screen is great, not touch screen, but very easy to read and works well in full sun. This was my second radio with a full numeric keyboard (the other is a BaoFeng). Being used to not using a keyboard with Icom, I learned to use the keyboard. Despite the keyboard, you can use the control knob to do almost everything you can do with an Icom, so navigation is an easy cross over. Every key on the numeric keyboard has 4 functions or allow 4 different inputs depending on the input needed at the moment.

Third, it has APRS. APRS is a totally new modality for me, in addition to the fact I have no local APRS repeaters, so I had a bit of a learning curve. During my occasional ventures to Spokane, from Palouse (where I live), I have had success with getting APRS up and running thanks to a few of the KBARA faithful. Seemed easy to setup and to understand after a bit of help. One more thing that Kenwood brought to the table was APRS. Nice to have it in the package.

Fourth, it has the 220 band. According to my Repeater Book app, I have one 220 repeater that resides 34.0 miles to the south. The next nearest is in Spokane at 54.5 miles away from my QTH. The 220 doesn't offer much unless I want to do simplex 220 with another 220 band user.

So let's discuss DStar. . . DStar seems to be functioning quite well. I have no nearby DStar repeater, however I have two hotspots operating on different 430 frequencies – one a Raspberry Pi with a DVMega and a SharkRF OpenSpot. The radio functions just fine with both. I have also made contacts while in Spokane on the WA7DRE DStar repeater. That repeater did showup on the current DStar repeater list that was in the radio when it arrived. One big difference here would be the DStar repeater list memory on the Kenwood has slots for 1500 repeaters as opposed to the Icom ID-51a's limit of 750.



Kenwood TH-D74 Triband, APRS and DStar Handheld Review

by Jim, WA7VFQ

Kenwood brought their product to market and has been making upgrades to the firmware on a regular basis. Currently they are on their 6th upgrade to the firmware. From what I've seen with the firmware upgrades – most of what is coming are feature and product developments.

Kenwood has a very adequate spreadsheet style memory control program. The big plus here is the fact it communicates with the radio via a standard micro USB cable that was included in the package. Upgrading your memory won't cost you an expensive proprietary cable that seems to be very popular these days.

Another great feature is the Bluetooth feature. You can connect via a headset to the Bluetooth. In addition, you can connect to a PC via Bluetooth. Something that should soon start being standard on our new amateur radio devices. Nice to see it offered on the TH-D74.

The TH-D74 comes with a secondary antenna that allows the radio to monitor the HF bands. I've listened more than once to people checking into the Noon Time net on 7283.5 kHz. Another fun thing to do that you don't get on most HT's.

It also complies with IP54/55 standards in regards to water and dust intrusion. The Icom ID-51a on the other hand has a stronger IPX7 waterproof protection (1m depth of water for 30 minutes).

My biggest con of this radio would be the rubber cover tabs on all the inlets on the right side of the radio. The Icom folks made their radio covers fit a lot better for the IPX7 protection. I have to work very hard to make sure a tab is closed on my Kenwood. Kenwood – you could have done a lot better here. I will say this, however, my Yaesu FT2D has the best positive seal inlet tabs of any radio I have seen. Both Icom and Kenwood would do well to look at the Yaesu inlet port cover tabs.

All in all, my experience in learning to use the Kenwood and its operation have been very positive. I move from radio to radio on a day to day basis. I rotate my Kenwood and my Icom when I have DStar communications to make. I like both and I've pleased Kenwood brought some excellent competition to the DStar market.

73 Jim Fielder WA7VFQ





Field Day 2017

By John Boy, KD7AAT

Once again I took the trip up to Valleyford from Nipomo Calif. for the combined field day/annual meeting and pot luck. A few days on the road and over nights in motels I ended up with the same expectations as always. I wasn't disappointed for sure. Freezing our butts off in tents Friday and Saturday night, waking up to wet mornings but as the sun came up and it got warm it was the start of another great day. Once again Jim and Betsy did their fantastic Saturday morning pancake breakfast, lots to eat and it helped get the Saturday morning going for shooting the spud gun and putting antennas in the air. We got radios, antennas power supplies all setup and at 11am the official time to start transmitting we were all on the air. CW, HF, GOTA, PSK31 and even some VHF contacts were made during the day and a great time was had by all. It was great that some new licensed hams were able to use the radios and make contacts to see how things work on HF and show them that "yes you need to spend some money on a radio" type of learning. Over all it was another great trip. I had the opportunity to have an eye ball with some of you that we have spent hours over the air and now seeing each other we never want to QSO again...hi hi.....

See you again next year same place same weekend.



USS Midway Tour

By John Boy, KD7AAT

October of last year I made a contact with the radio club on the USS Midway in San Diego working the ship station NI6IW. Ok so it was when they were using DSTAR on 29A and not real radio but yet it was fun. I got an exchange QSL card from them and along with it were tickets for the museum. I decided to drive down there and not only see the ship but try to get in the radio room. Just so happens that on May 13th they were having one of their special event stations operating.

What an opportunity!!! 300 miles, 5+ hours and I would be down there from Nipomo. I left here in the morning, got to San Diego in the afternoon and checked into my motel. Saturday morning I headed to the flat top parked at the wharf and went up the gang plank.

I know you would like to have seen me going down the plank while out to sea....hi hi.....

What a fantastic trip. That boat is much bigger than you can imagine. I won't go into details as you can look up the info on the net. It was actually a floating city while in service between 1945-1992 when it was retired.

While in line at the parking lot I turned on my ICOM 7100 and tuned to 7.250 the 40m frequency they would be working. I heard the CQ CQ call and connected right up.

The radio op said I had a great signal and I told him to look out the window and we could have an eye ball as I was looking at the ship. He thought that was pretty funny for sure.

After looking around the ship for a while I made my way down to the radio room. The three guys there were working stations on different bands/modes and pretty busy. I got the attention of one of them and said I had just made a contact with the station and wanted to have an eyeball. It turned out to be KK6BGI that I had talked to. He invited me into the shack and we started to have a chat but the other two guys turned around and gave the "lips shut" motion as they were trying to do business.



Hi Hi. George and I went into the hall way where there were quite a few other hams there also. George says follow me and he started taking me on a "private" tour of sorts to places that are open to the public but a bit of a challenge to get to. We spent about 20 minutes going through some neat places on the ship while I took a lot of pictures and in awe of everything. Finally George said he needed to get back to the shack and do his duties so we shook hands, exchanged pleasantries and parted ways.

I continued on looking at pretty much everything I could before running out steam going up and down stairs and wearing out my feet. After

close to three hours I made my back down to the hanger deck, ended up seeing George again while he was on a break (they have a number of guys there that take turns) picked up the pictures they made from the one they take when you first come on board then headed down the ramp to the parking lot.

A fantastic experience for sure and worth every minute of it. I would recommend to anyone if you ever have the chance to take the tour of the ship. Be ready for lots of traffic, people and some money for all of it but you only live once.





2017 Annual Meeting Minutes

Minutes of Last Meeting, Saturday, June 24, 2017

Valleyford Park Field Day/Annual Meeting & Elections

1:03pm (13.03) President Scott KA7FVV called the meeting to order.

President - Time got away from us so we have tabled the bi-laws for next year. They had to be approved by our board of directors and submitted to the secretary 2 weeks before our meeting to get out to membership for review and since we moved our meeting up a month and 1 director had health issues we had our time cut short. They will finish finalizing them and present them next year.

Thanked host Richard for accommodating us. It's working well to have both the meeting and field day at the same time. We have a good turn out.

Treasurer -

Beginning 7/1/16	\$11,625.51	
Income	\$4,474.00	
	Membership (including 153)	\$2,064.00
	Extra Donations	\$2,410.00

Profit after \$500. seed money Hamfest \$ 247.00

Expenses	\$4,936.82	
	newsletter	\$ 46.75
	site rental	\$1,227.68
	repeater repairs	\$3,184.75
	gas	\$ 41.81
	pay pal	\$ 80.85
	other	\$ 80.00
	banners (3)	\$ 274.98

Ended 6/24/17 \$11,409.69

The repairs to Elk Butte (antenna) have yet to be done and purchase of feed line has not been made as yet.

Secretary - Read complete minutes from last meeting. Approved

Old business -

There have been a few developments about linking to tri-state. Jim W7FVQ has been to some meetings and found some resistance by a couple club members to link to us, site rental on Moscow Mt. is \$1500. per year so that is not



2017 Annual Meeting Minutes

something we want to take on. The club is struggling so they may disband and the repeater may go down at some point in time. That has been scrapped.

New business -

Spokane Hamfest asked for approval of donation of seed money in the amount of \$500. on behalf of KBARA. September 23, 2017 - state convention, 7 clubs including KBARA. One member was concerned about possible low turn out again. Prizes were cut back. Try to sell more raffle tickets. VHF club member had also been in discussion on how to keep long rental tables and other tables occupied until a specific time before break down. Vice president made a note of the increase in new amateurs participating so may have an increase in attendance to hamfest. MMSP Majority vote accepted.

Elections - all official positions have decided to stay on except Valaire who is stepping down. No nominations were taken for President, vice-president or treasurer. All were retained. MMSP Majority Vote accepted.

2 nominations for secretary were pointed out and members voted by paper ballot. Dan, K17ZCW, was voted in. He accepted. It was a narrow margin.

Appointed officials -

KBARA representative for Spokane Craig W7CDP - more new hams and they seem to jump in and help. Great asset. New hams appreciate KBARA.

Membership secretary - John Boy KD7AAT - thanks people and he had a little raffle of some of his stuff.

Net control - Jeff KG7HZT

Showed appreciation to the three.

Hamfest report - ARRL Washington State Convention

7 Seminars, Raffle tickets are for sale, prizes are selected, swap & commercial tables are for sale, doors are open 9 to 4 - Saturday the 23rd of September, 3:30pm is raffle drawing. Program will come out 2 weeks before and flyers are online at ARRL.org. Only a couple meetings left. This year is looking pretty good.

Repeater owners -

Current state of KBARA system - by Glen K1RR

147.36 - intermittent issues. Thoughts are that the antenna is broken or something with hardware has gone wrong. We need to do a "scouting" trip up there to see what is needed. Glen has a complete replacement repeater for the 36. We will remove the entire cabinet minus the duplexer and controller. A brand new ICOM FR-5000 will replace the GE master II receiver and Mitrek transmitter. We have purchased a new Astron 20 amp rack mounted linear power supply as well. Just need some time in the evening when W7OE and Glen can make the trip to replace and scout.

145.190 - Everything seems to be working fine. Getting more and more contacts from the Elk River/Orofino, Idaho area. Locals report the repeater to be working well, however, the club purchased a new antenna for the site, and we just need some time to get down there and replace the cheap antenna. Also, in case of "emergency" with the antenna at Stensgar I think the antenna could be used there and we could re-think the replacement at Elk Butte later.



2017 Annual Meeting Minutes

IRLP - Issues with Tiger Mt. have gone away since we have disconnected the link. Locals in the Seattle area still report that the issue over there is still creating problems. We have since had the Sno-Valley 440 repeater linked up with us during the morning net, and users over there are still able to check in with KBARA 7 am net. I've talked with Jack, W7HNNH who has offered our IRLP equipment back, but I opted for leaving it at East Tiger until the issue over there gets tired of bothering people. All other IRLP equipment and links are working well.

by John W7OE

A new repeater will be put in at Stensgar. It may have a weak signal strength which will be checked. At Mica Peak, 147.38, we put in a new antenna with a good half inch hard line which is working exceptionally well. Had a problem with Walla Walla - person using wrong control codes, John reset and working fine.

Will take a trip to Elk Butte with Glen soon.

Lookout Pass is working great

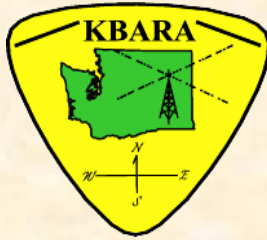
Intermittent problem with hub 223.9 talked to Carl and was hard to say what it was. (tone squelched repeater) 222.3 input. Problem went away.

Member asked about expanding the KBARA repeater system. John W7OE says you can put link radio in and controller. IRLP node could be put in but have to have internet access.

Can't link to Nanum anymore but you can hear them. 3 people could check in when we could link.

Meeting was adjourned at 1:51pm. (13:51) Let's eat!

KD7AAT



Income & Expenses

7/01/2016 to 6/30/17

DATE	DESCRIPTION	DONATIONS	NEWSLETTER	SITE RENT	REPEATER REPAIRS	GAS	PAYPAL FEES	HAMFEST	OTHER	ENDING BANK & PAYPAL BALANCE
07/14/16	Donations	\$115.00					(\$4.54)			
07/18/16	Elk Butte rent			(\$300.00)						
08/01/16	USPS box rent								(\$70.00)	
08/03/16	Donations	\$19.00								
08/22/16	Donations	\$15.00								
08/23/16	Hub repeater repairs				(\$892.82)					
08/24/16	Donations	\$60.00					(\$2.34)			
09/05/15	Washington State								(\$10.00)	
09/06/16	Donations	\$20.00								
09/12/16	Fuel to Look Out					(\$10.00)				
09/12/16	Stensgar rent			(\$100.00)						
09/20/16	Donations	\$85.00					(\$3.98)			
09/26/16	Donations	\$785.00						(\$10.00)		
09/26/16	Fuel to Stensgar					(\$16.81)				
10/11/16	Donations	\$40.00								
10/15/16	Fuel to Mica Peak					(\$5.00)				
10/20/16	Donations	\$105.00					(\$4.56)			
10/19/16	Hamfest seed \$/profit							\$775.00		
11/04/16	Mike & Key admissions							(\$18.00)		
11/07/16	Donations	\$20.00								
11/07/16	Mica Peak antenna				(\$1,011.04)					
11/14/16	Stensgar rent			(\$100.00)						
11/16/16	Donations	\$170.00					(\$6.75)			
11/21/16	Mica Peak antenna repairs				(\$100.00)					
11/21/16	Donations	\$15.00								
12/04/16	Postage		(\$46.75)							
12/05/16	Donations	\$235.00								
12/14/16	Donations	\$670.00					(\$23.07)			
12/18/16	Look Out rent			(\$367.68)						
12/18/16	Mica Peak hard line				(\$312.85)					
12/28/16	Donations	\$30.00								
01/03/17	Donations	\$15.00								
01/06/17	Donations	\$210.00					(\$8.22)			
01/09/17	Donations	\$640.00								
01/11/17	Pikes Peak rent			(\$360.00)						
01/17/17	Donations	\$25.00								
01/24/17	Hamfest seed \$							(\$500.00)		
01/30/17	Donations	\$340.00								
02/09/17	Donations	\$165.00					(\$6.91)			
02/06/17	Donations	\$20.00								
02/27/17	Donations	\$130.00								
03/01/17	Donations	\$115.00					(\$5.16)			
03/06/17	Donations	\$30.00								
03/13/17	Donations	\$20.00								
03/19/17	Elk Butte antenna				(\$868.04)					
03/20/17	Donations	\$20.00								
03/29/17	Donations	\$120.00					(\$5.30)			
04/02/17	Fuel to Mica Peak	\$75.00				(\$10.00)	(\$3.39)			
05/02/17	Donations	\$20.00								
05/08/17	Donations									
05/30/17	Donations	\$105.00					(\$4.56)			
06/21/17	Donations	\$40.00					(\$2.07)			
06/24/17	Donations	\$15.00					(\$0.74)			
06/24/17	Banners (outstanding checks as of 6/30/17)								(\$279.98)	
06/26/17	Donations	\$28.32								
	BEGINNING BANK/ PAYPAL BALANCE			SITE RENT	REPEATER REPAIRS	GAS	PAYPAL FEES	HAMFEST	OTHER	ENDING BANK/ PAYPAL BALANCE
	\$11,625.51	\$4,517.32	(\$46.75)	(\$1,227.68)	(\$3,184.75)	(\$41.81)	(\$81.59)	\$247.00	(\$359.98)	\$11,447.27

Memberships \$2,094.00
Extra Donations \$2,423.32



Total Solar Eclipse across the US

by Scott, KA7FVV

NEVER LOOK AT THE SUN DIRECTLY WITHOUT A PROPER FILTER

WE have a great astronomical event coming next month. A total solar eclipse will darken a path across the continental United States on August 21st from Oregon to South Carolina.



This is the view of the eclipse and related times for Spokane.



See my website for great links to eclipse information: <http://www.ka7fvv.net/astronomy.htm>

SPOKANE HAMFEST

and

ARRL



WASHINGTON STATE CONVENTION

September 23, 2017, 9AM-4PM

University High School

12420 E 32nd Ave, Spokane Valley WA 99216

Admission \$5 (age 18 & under – FREE)

East entrance on 32nd Avenue

Hosted by 6 Amateur Radio Clubs:



Northwest
Tri-State ARO



Four Prizes to be Ruffled! 1st ICOM IC-718 (HF compact multimode 160-10 M with DSP); 2nd Kenwood TM-V71A (144/430 Mhz FM dual band mobile 50 wt with Echolink interface); 3rd ICOM IC-2300H (144 Mhz FM mobile 65 wt); 4th RASPBERRY PI 3 COMPUTER KIT

Seminars, Demos, Displays, Raffle & Door Prizes – “Antenna Physics, an Introduction (ARRL published, Chapter Two)” by Bob, W7SX, author – “Pile Up Secrets & Contesting” by Chuck, KI7DG – “Amateur Radio Digital TV” by Duff, WA7BFN & Craig, W7CDP – “ARRL Forum” by Jim, K7CEX & Bonnie, AB7ZQ, ARRL NW Division Director & Vice Director – “Cascadia Rising 2016 After Action & State RACES Updates” by Monte AF7PQ, ARRL WWA SM & WA State RACES Officer – “Satellite Communications” by Scott, KA7FVV – “LDS Communications Plan, Personal & Group Emergency Communications” by Dave, K7DSR – “Radio Test Gear Table” by Jack, AD7FO – License Exam – Open Cry Auction – QSL Card Checking by Bruce, N7ZA – Refreshments & lunch by Toby’s B-B-Q

ADMISSION \$5

Age 18 & under FREE

COMMERCIAL SIZE TABLES \$15

Admission not included in price of table space;
limited number of tables available; reserve
before 9/16/17

SWAP TABLES \$10.00

Admission not included in price of table space;
limited number of tables available; reserve
before 9/16/17

FREE OFF-STREET PARKING FOR CARS & RV's
starting Friday, September 22, 2017

FRIDAY, SEPTEMBER 22, 2017

Vendor setup 6:00PM-7:30PM

SATURDAY 23, 2017

Vendor setup: 7:30AM-9:00AM

OPEN TO PUBLIC: 9AM – 4PM

License Exam: 12PM

Open Cry “Junque” Auction: 2:30PM

Raffle: 3:30PM

No-host Hamfest dinner: 5:00PM

Timber Creek Grill & Buffet

9211 Montgomery Dr, Spokane Valley



Lunch by Toby's B-B-Q



SPOKANE HAMFEST 2017 REGISTRATION

Name _____ Call Sign _____

Address _____

Phone number/E-mail address _____

_____ **Registrations @ \$5 each** \$ _____

Age 18 & under free

_____ **Commercial size tables @ \$15.00 each** \$ _____

Admission not included in price of table space;
reserve before 9/16/17

_____ **Swap tables @ \$10.00 each** \$ _____

Admission not included in price of table space;
limited number available;
reserve before 9/16/17

Total \$ _____

Please make checks payable & mail to:

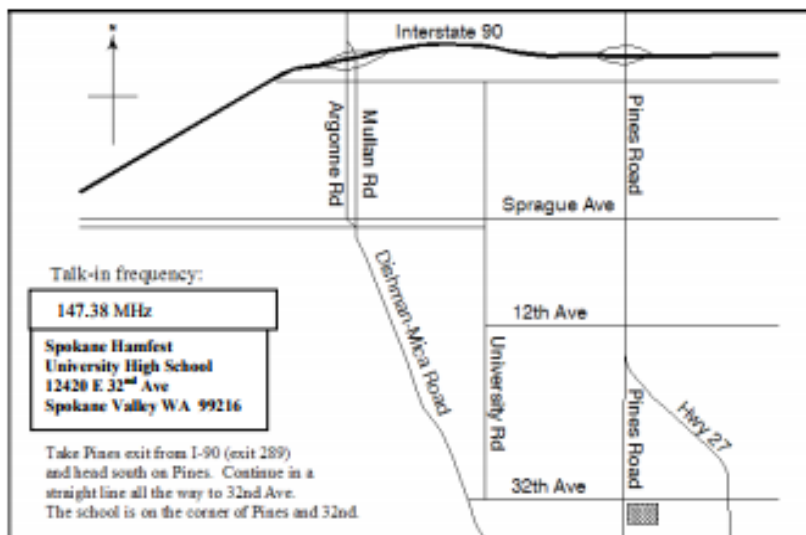
SPOKANE HAMFEST
2910 E 57th Ave Ste 5
PMB 255
Spokane WA 99223

Pre-paid registrations will not be mailed, but will be held at the ticket table, available for pickup starting Friday, 9/22/2017, from 6:00 PM - 7:30PM.

For additional information contact Mike Grounds, KE7PG, 509-924-6377, e-mail: ke7pg@comcast.net

Web site: <http://www.n7cfo.com/amradio/hf/hf.htm>

The SPOKANE HAMFEST is an annual event hosted by six Amateur Radio clubs: the Inland Empire VHF Radio Amateurs, Kamiak Butte Amateur Repeater Association, Northwest Tri-State ARO, Spokane DX Association, Palouse Hills ARC, & University High School ARC.



Pacific Northwest DX Convention

[Program](#) [Prizes](#) [Attendees](#) [About Spokane](#) [Contact Us](#)



Go to <http://pacificnwdxconvention.com/> for all of the details.

2017 Pacific NW DX Convention

@

Hotel RL by Red Lion Spokane at the Park

August 4, 5, and 6, 2017

Downtown Spokane, WA





Upcoming Hamfests and Events

Courtesy of N7CFO.com

July 22. Chehalis Valley ARC 19th Annual Pacific Northwest Ham Radio Tailgate Swapmeet. Lewis County Fairgrounds. ***This is an ARRL sanctioned event.*** [Flyer in PDF](#). (168K) Contact John Ellingson, K7OSK. k7osk@boatanchor.com . <http://www.cvars.org/>

August 4-6. 62nd Annual Pacific Northwest DX Convention. ***This is an ARRL sanctioned event.*** Spokane, WA <http://pacificnwdxconvention.com/>

August 12. Arctic ARC Hamfest. Fairbanks, AK. ***This is an ARRL sanctioned event.*** <http://www.k17kc.com> . Contact John S Slater , KL1AZ, (907)488-5209. hamfest@hughes.net

August 19. 7th Annual Clark County Amateur Radio Club (CCARC) Ham Fair, Vancouver, WA. ***This is an ARRL sanctioned event.*** Salmon Creek American Legion Hall, 14011 NE 20th Ave, Vancouver, WA 98686. 9am-1pm. Contact Vanessa McCoy, KE7UBB, 360-601-7408 or 360-818-4807, clarkcountyham-fair@w7aia.org . www.w7aia.org/hamfair.htm [Flyer in PDF](#). (3.5 MB)

August 20. Antique Radio Swap Meet. Puget Sound Antique Radio Association. Shoreline Community College, 16101 Greenwood Avenue North, Shoreline, WA 98155. <http://www.pugetsoundantiqueradio.com/index> (Always

August 27. Ham Happenings. James Street, Duncan BC (Island Savings Centre) Vendors: 8AM, Public: 9AM. Admission \$5, Tables \$15 (includes one admission). Contact ve7jh@rac.ca or (250)715-8634

September 8-10. 20th Annual Northwest APRS/Digital Summer Gathering. Valley Camp, North Bend, WA. <http://valleycamp.org/> . [2015 Photo Gallery](#)

September 23. Washington State Convention (Spokane Hamfest) Spokane Valley, WA. ***This is an ARRL sanctioned event.*** [Flyer in PDF](#). (287K) [2016 Photo Gallery](#). Contact, Mike Grounds , KE7PG, (509)924-6377 ke7pg@comcast.net .

September 23. Northwest Citizen Corps EXPO. Renton, WA. [Flyer in PDF](#). (922K)

September 23. Magic Valley ARC Tailgate Swap Meet. Twin Falls, ID. www.k7mva.org . Contact kc7qr@k7mva.org [Flyer in PDF](#). (1MB)

October 14. Pacific Northwest VHF Society Conference. Moses Lake, WA. ***This is an ARRL sanctioned event.*** <http://www.pnwhfs.org/>

October 14. Kitsap County Hamfest. Bremerton, WA. ***This is an ARRL sanctioned event.*** Contact: Jim Nicolet, N7SYD, (360)874-0180. hamfest@kcarc.org <http://www.kcarc.org/>

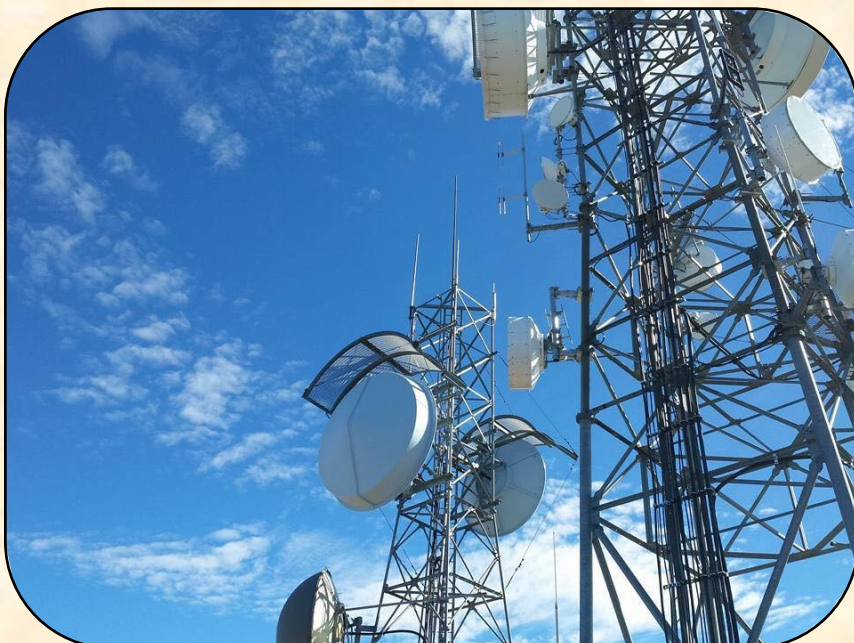
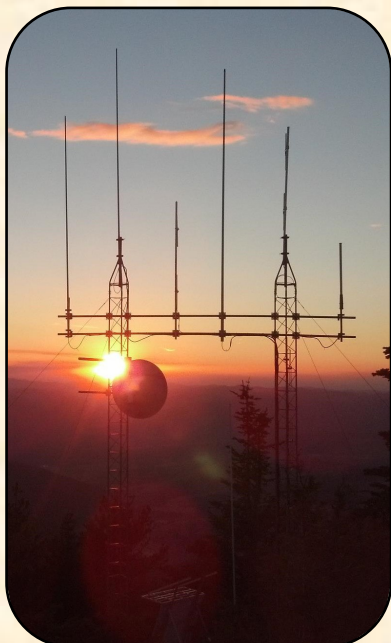
October 21. Swap-Tober-Fest. Mid-Valley ARES. Polk County Fairgrounds, Rickreall, OR. www.swaptoberfest.net

November 5. Maple Ridge Swapmeet. Pitt Meadows, BC. https://secure.eton.ca/rac/events/detail.php?event_ID=1878



KBARA Repeaters and Echolink/IRLP Nodes

Frequency	CTCSS Tone	Location	Callsign	RF Link
Repeaters				
223.90 Mhz	None	Stensgar Mtn	AK2O	Hub
147.38 Mhz	None	Mica Peak	W7OE	AK2O—223.90
147.36 Mhz	None	Stensgar Mtn	K1RR	Hard wired Hub
147.02 Mhz	None	Lookout Pass	K7HPT	W7OE—147.38
147.28 Mhz	None	Pikes Peak	KD7DDQ	AK2O—223.90
145.19 Mhz	None	Elk Butte	K1RR	AK2O—223.90
Links				
Echolink KB7ARA-R	N/A	Spokane, WA	K1RR	AK2O - 223.90
IRLP Node 3636	None	East Tiger Mt	KB7ARA	145.33 & Ref 9075
IRLP Node 3638	None	Spokane, WA	K1RR	AK2O—223.90 & Ref 9075
147.400 Simplex IRLP Node 3282	100.0 hz	NW Spokane, WA	K1RR	IRLP Only

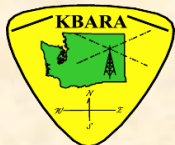


KBARA Membership / Support Information: The KBARA repeater system consists of several privately owned linked Amateur Radio repeaters. It covers an area from northeastern Washington to northeastern Oregon, and from western Montana to central Washington. The KBARA system is also part of the Evergreen Intertie, 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. All licensed Amateur Radio operators are welcome to use this open repeater system. Your support would also be greatly appreciated. Please visit this site 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. This can also be done via Paypal on our webpage at www.kbara.org.

KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION

PO Box 30801

Spokane WA 99223-3013