



KBARA Gazette

Quarterly Journal of the Kamiak Butte Amateur Repeater Association

Fall 2017

Spokane Hamfest and ARRL Washington State Convention

Another great Spokane Hamfest that was well attended. Great work by the hamfest committee on the quick organization of the last minute move from University High to Horizon Middle School just a few blocks away. Things were a little cramped and there were several tables in hallways off of the main cafeteria but I think it worked out well.



Please see additional pictures on the KBARA Facebook Page.



Spokane Hamfest 2017

Recap

Another successful Spokane Hamfest has come & gone, thanks to the six clubs who host this yearly event. A special thanks go to our hosts, Horizon Middle School, & our friend & fellow Ham, Jared Bock, KE7FLD, University High School teacher & his students. Had it not been for him & everyone's help, the last minute venue change might have thrown a real "monkey wrench" into the works. But all worked out well, thanks to the tireless efforts of our volunteers for this 2017 Spokane Hamfest & ARRL Washington State Convention. This year, the event was attended by about 450 participants, featured numerous commercial & swap tables, & had many exciting seminars & activities. On the program were: "Antenna Physics, an Introduction" by Bob, W7SX, author; "Pile Up Secrets & Contesting" by Chuck, KI7DG; "ARRL Forum" by Bonnie, AB7ZQ, ARRL NW Division 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; "Junque" Auction by John, W7OE, Jim, N7WRR, Steve, KG5AO, Glen, K1RR, & JohnBoy, KD7AAT; QSL card checking by Bruce, N7ZA; refreshments & lunch by Toby's BBQ. For the raffle drawing this year, the 1st prize, an ICOM IC718 went to Jim, WA7VFQ, of Palouse, WA; 2 nd prize a Kenwood TM-V71A to Randy, KD7WVG of Spokane; and 3rd prize an ICOM IC-2300H to Robert, KE7JYS, of Farmington, WA; & 4 th prize a Raspberry Pi 3 Computer Kit to Dave, AC7MV, of Spokane. Congratulations to all those winners & a special thanks to all who helped support this yearly event, helping the clubs see a financial return of slightly over 100% on their seed money.

73, Betsy, N7WRQ
Spokane Hamfest 2017 Chairman



From the Ham Shack of our President

KBARA Members,

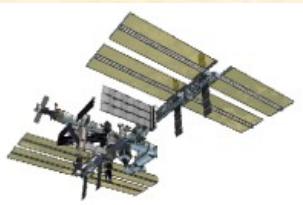
Another summer has come and gone. Our major ham, social events have done the same. Topped off with another great hamfest made possible by the wonderful work of our hamfest committee.

I would like to take this time to give a special thanks to our Treasurer, Betsy, N7WRQ. She has been part of the Hamfest Committee since 1997 in several different roles, sometimes multiple roles at the same time and doing a great job in the planning and organization of our great yearly event. She has announced that she is retiring this year from the committee. A great thanks from myself and all of KBARA for a great job over all these years.

Another special thanks is in order for another retiring member of the committee, Mike Grounds, KE7PG of the VHF Club. Mike is currently the Treasurer of the VHF Club. Mike has been with the committee for 4 years as treasurer.

That is about it for this edition. Everyone have fun moving ham activities in doors and we will see everyone in January.

73, Scott, KA7FVV,
President KBARA



ISS Transiting the Sun

By John, KD7AAT

On Labor Day 9-4-17 I drove up the hill with camera and sun filter ready to take video of ISS crossing the sun. As luck would have it we had clouds and it was iffy but I hung out till the predicted time. The clouds parted just a bit, some still crossing but I did get the video. With this pass only .66 seconds in front of the sun it was a blur for sure. The video of ISS crossing the sun that I have on my web site kd7aat.net is at half speed but if you don't blink you can see the blur moving from top to bottom across the sun. These pictures are captures from the video. Not much to see but there are some nice sun spots also visible. I'm waiting for another chance when the pass is longer and the skies are clearer. There is a predication program on the internet that works great for knowing where to be and all about the pass. Check it out @ <http://transit-finder.com/>.





ISS and NO-84 APRS

By Scott, KA7FVV

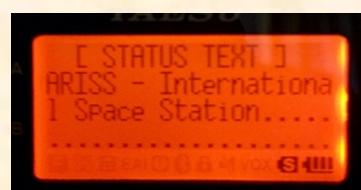
The satellite bug has rubbed off on several local hams with APRS enabled handhelds. Yaesu and Kenwood both have APRS enabled handhelds that work great for terrestrial APRS but can also be configured by changing the digi path to beacon through the APRS system on the ISS and also the NO-84 (PSAT) satellite. It is not just limited to using the APRS handhelds it can also be done at home as well with either TNC or non-TNC packet setup. I have always mentioned that you can hear ISS on 145.825 MHz. This is the APRS Packet frequency that is active most of the time.

With the APRS enabled handhelds you can beacon through the APRS system and show up on a heard map. Change the digi path from the terrestrial standard, WIDE1-1,WIDE2-1 to RS0ISS for ISS and APRSAT for NO-84. Like working with any satellites a directional gain antenna is always best. You may get lucky with a rubber duck antenna. Once configured run a satellite prediction program to determine when the satellites will be over your QTH. Wait to hear the packet from the satellite to make sure it is active. You should be able to decode the beacon from ISS. Wait until you hear activity before you transmit. The handhelds have a keypad sequence that transmits the beacon. You should see a response on your display that indicates that your beacon has been digipeated. For me on my Yaesu FT1DR I see DE KA7FVV-7. That ways I know it heard me. Check ARISS.NET to see if you show up on the map at your location. Sometimes the contacts do not get to an igate unfortunately. The next step is APRS messaging. If you are familiar with terrestrial APRS you know messages can be sent back and forth. No different for the satellite except you have to be quick. We are all giving this a try.

Here is a capture off of the ISS Heard map at the address noted above that shows our beacons were heard.

Below are screenshots off of my Yaesu FT1DR of the ISS APRS Beacon.

Newer Handhelds with APRS capability are Yaesu FT1DR, FT2DR, Kenwood D72A, D74A.





Satellite Update

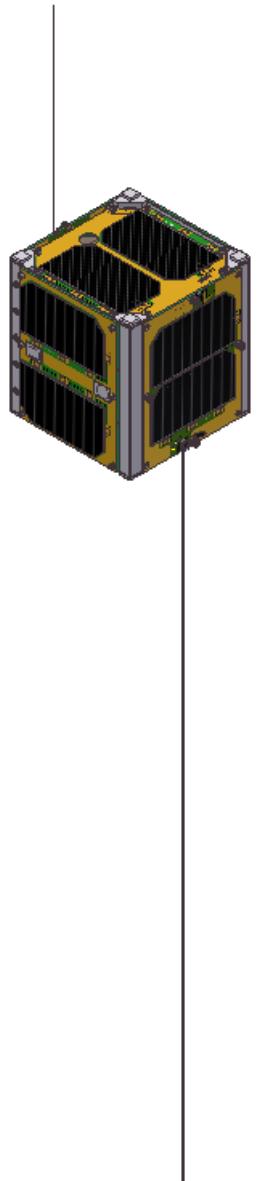
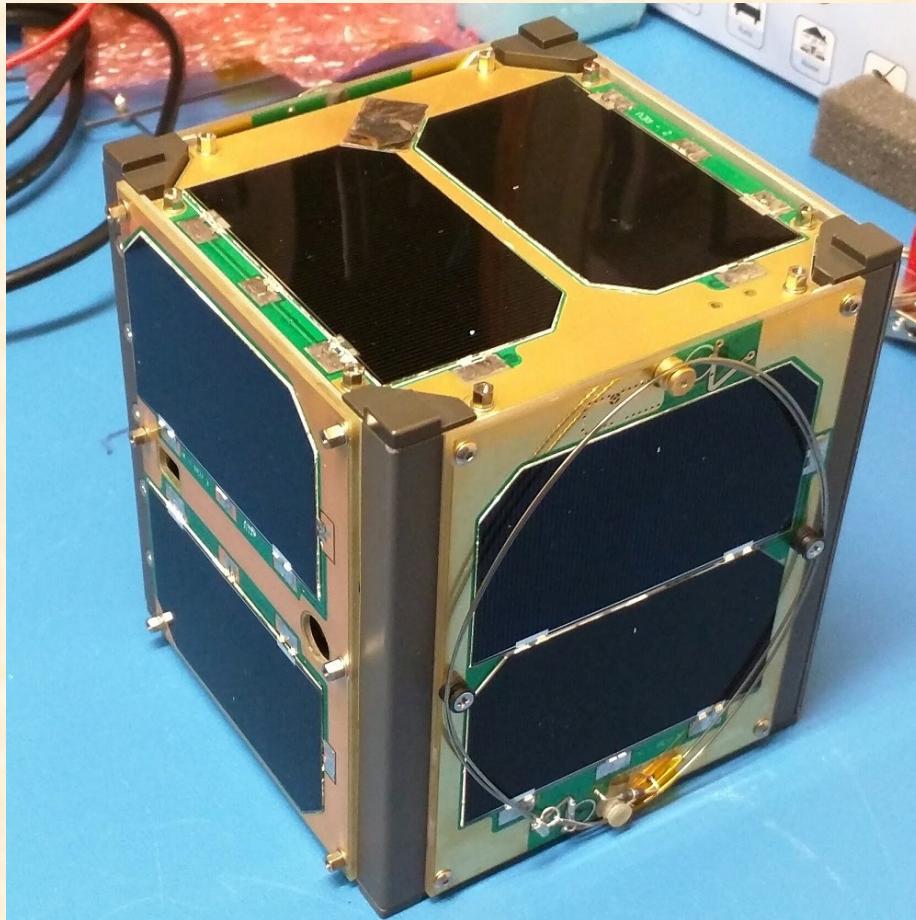
By Scott, KA7FVV

Our next FM Amateur Satellite is ready for launch.

The next Fox-1 Satellite built by AMSAT-NA, RadFxSat (Fox-1b), is scheduled to launch on November 10th at 0947 UTC/0247 PDT from Vandenberg Air Force Base, California aboard a Delta II rocket.

RadFxSat will carry a U/v FM transponder. Uplink of 435.250 MHz (67.0 Hz CTCSS) and a downlink of 145.960 MHz.

Check my website for Doppler shift programming for the uplink. ka7fvv.net





Upcoming Hamfests and Events

Courtesy of N7CFO.com

October 21. Swap-Tober-Fest. Mid-Valley ARES. Polk County Fairgrounds, Rickreall, OR. *This is an ARRL sanctioned event.* www.swaptoberfest.net [Flyer in PDF](#).

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

~~~~~2018~~~~~

**February 17, 2018. Salem Hamfair & Computer/Electronics Swapmeet.** Rickreall, OR at the Polk County Fairgrounds. <http://www.w7sra.com> .

**March 10, 2018. Mike & Key 36th Electronics Show & Fleamarket.** Puyallup fairgrounds exhibition hall, Puyallup, WA. *This is an ARRL sanctioned event.* <http://www.mikeandkey.org/flea.htm>

**March 24, 2018. MicroHams Digital Conference,** Redmond, WA. *This is an ARRL sanctioned event.* <http://www.microhams.com/mhdc/>

**April 7, 2018. Yakima Hamfest. Yakima, Washington.** <http://yakimaamateurradioclub.com/yakima-hamfest/>

**April 14 & 15 2018. Communications Academy.** South Seattle Community College, Seattle, WA. *This is an ARRL sanctioned event.* <http://commacademy.org/>

**April 20-22, 2018. Idaho State Convention.** Boise, ID. *This is an ARRL sanctioned event.* <http://www.idahostateconvention.com/>

**May 2018. Stanwood Camano Amateur Radio Club Hamfest,** Stanwood Middle School, Stanwood, WA. Contact: Fred Laun, [w7pig@arrl.net](mailto:w7pig@arrl.net) <http://www.scarcwa.org/>

**May 2018. Washington State Search And Rescue Conference.** <http://www.wasarcon.org/>

**May 2018. River Radio Campout 2018.** Pateros WA. Free "dry" camping along the Methow River at Pateros. Always the weekend prior to Memorial Day Weekend. Contact Roger W7CH [w7ch@arrl.net](mailto:w7ch@arrl.net) (509)687-3919. <http://lakechelanradioclub.webs.com/>

**June 1-3, 2018. SEA-PAC Hamfest and ARRL Northwestern Division Convention.** Seaside Convention Center, Seaside, Oregon. *This is an ARRL sanctioned event.* [info@seapac.org](mailto:info@seapac.org) . [www.seapac.org/](http://www.seapac.org/)

**June 8-10, 2018. 50th Annual Apple City ARC Hamfest.** Apple City ARC. Dryden Gun Club. Dryden, WA. (Five miles east of Leavenworth on Hiway 2). <http://www.qsl.net/w7td/> .

# ANNUAL MEMBERSHIP

**Please remember to renew your membership for 2018**

**Name** \_\_\_\_\_

**Call Sign** \_\_\_\_\_

**Address** \_\_\_\_\_

**City/State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Phone** \_\_\_\_\_ **Amt Paid \$** \_\_\_\_\_

**E-Mail** \_\_\_\_\_

**ARRL Member #** \_\_\_\_\_

---

## **Call for resurrection of the Lilac City Amateur Radio Club**

The Lilac City Amateur Radio Club with its club call (N7LC) was active in both DX and 10M events for many years. It was also the 10-10 International Chapter (Lilac City Chapter). With the death of Bob Meenach (AC7GP), it passed into memory as best I could find.

The Spokane area has a DX club and a VHF club that are active as well as the KBARA Repeater group.

I am wondering if there is interest in starting up the Lilac City ARC with monthly meetings somewhere in Spokane Valley. There is a Club station call, a small bank account and an inactive 10-10 Chapter in place. Lilac City did not charge dues.

In years past the meetings were on Tuesdays at the Argonne Library. All things Amateur radio were discussed. The first 15 minutes were devoted to the 10-10 Chapter while the rest of the meeting was anything of interest.

With the many new calls in the area, I am hoping that there might be a renewed interest in a general purpose Radio club.

Please call me if you have any interest making Lilac City ARC live again. My phone number is 509-228-8381 and my email is [phil@air-pipe.com](mailto:phil@air-pipe.com).

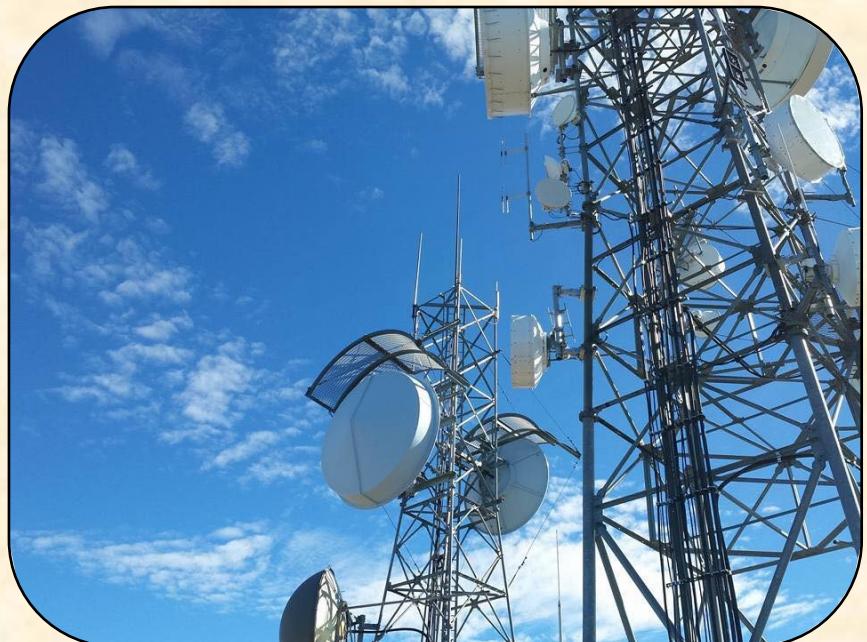
73,

Phil Evans WA7JCE



# KBARA Repeaters and Echolink/IRLP Nodes

| Frequency         | CTCSS Tone | Location      | Callsign | RF Link                |
|-------------------|------------|---------------|----------|------------------------|
| <b>Repeaters</b>  |            |               |          |                        |
| 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            |
| <b>Links</b>      |            |               |          |                        |
| 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 |



**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>**



## Amateur Radio Testing

Testing is held the 3rd Wednesday of every month at Spokane Fire Station No. 4 at 1515 W 1st Avenue, Spokane. Brought to you by Glen, K1RR. If you have any questions please contact Glen at [glen@k1rr.com](mailto:glen@k1rr.com) or 509.216.0666.

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](http://www.kbara.org).

### KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION

**PO Box 30801  
Spokane WA 99223-3013**