



The BAARCer



October 2015

For Anyone Interested in Amateur Radio

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Club Call Sign: WØUJ

BAARC REPEATERS

53.110 MHz- 123.0 Hz
147.225 MHz+ (main rptr)
 145.130 MHz- Echo Link
 Node number 233515
 443.925 MHz + 110.9 Hz
Packet: 145.670 MHz
 MNBRD, BRDBBS
 144.390 WØUJ APRS
Crosslake 147.030
 MHz+
Crosby 146.700 MHz-
 Tone 141.3
Crosby 444.925 MHz +
<http://brainerdham.org>
2015 OFFICERS

Pres. + Web Editor:

Steve Mott **NØCRM**

Vice President:

Lyle Amundson **KØLFV**

Secretary:

Ron Finger **KØGOP**

Treasurer:

Doug Bergsnev **KDØERE**

Director-at-Large:

Al Doree **WØRC**

**Trustee + BAARCer
Editor:**

Fritz Bertelt **WØKO**

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**Ron Finger, KØGOP, presented an Informative Program on a Civil
Air Patrol Exercise with a Focus on Communication—9-24-15**



As many in the Club know, Ron is our Secretary. However, he has another activity that is also immersed in public service: the Crow Wing Squadron of the Civil Air Patrol. CAP, the Congress-appointed civilian auxiliary of the Air Force, is comprised of volunteer senior members and cadets. Piloting their 3-fold mission of emergency services, aerospace education, and cadet services are experts from many disciplines including amateur radio operators. Here is where communication experience helps. For instance, during a recent exercise, an Air Force evaluator tested the group's readiness for the unexpected by informing Ron: "Your communications trailer has been destroyed and can no longer be used." The evaluators were impressed when within 3 minutes the cadet radio operators were able to return to the air in another trailer equipped with backup radios, antennas and power. In short, Ron's ham experience paid off, showing that preparedness is valuable. We thank CAP Capt. Ron Finger for the program and appreciate having the squadrons ready for all. See p. 6

— Events Calendar —

Sat., Oct. 3, Club Breakfast @ 9 @ Northwind Grille—Brd.
Thurs., Oct. 15 and Fri., Oct. 16—from 5:30 p.m. to 10:30 p.m.—**Northland Arboretum "Haunted Trail" Event**—Operators needed—Check the Sunday Nets.—Contact is Ron KØGOP.
Sat., Oct. 17, Club Breakfast @ 9 @ Northwind Grille —Brd.
Note: Technology Group Mtg after the BRKFST—to be held at Brd. Lib.
Thurs., Oct. 29—Regular Monthly Board & BAARC membership Mtgs. @ 4 and 7 P.M. @ Brd. Fire Hall.

Join/Rejoin—\$20 Dues/ Year—Please get your check in to Doug KDØERE.

Thursday-September 24, 2015 - 4:00 PM - BAARC Board Meeting Minutes**Brainerd Fire Station**

President: Steve Mott, NØCRM
Vice President: Lyle Amundson, KØLFV
Treasurer: Doug Bergsnev, KDØERE
Secretary: Ron Finger, KØGOP

Past Presidents: Charles Lane, W5CCL; Al Doree, WØRC
Director-At-Large: Al Doree, WØRC
Repeater Trustee: Fritz Bertelt, WØKO
Emergency Communications Director: John Luce, WØWY

Attendees: Steve NØCRM, Lyle KØLFV, Doug KDØERE, Ron KØGOP, Al WØRC, Shirley KØDCW, John WØWY, Roger WØWUG, Mitch ADØHJ, and Michael KEØAFZ.

Secretary's Report: The Club Picnic and Fox Hunt was held in August and no board or membership meeting was held. The website is being evaluated for overall rebuilding by Michael KEØAFZ and TJ KØTEG. Membership roster shows 70 paid members, including a new application. Tim KDØYLO once again became the first member to renew his dues for the next year.

Motion to accept: Lyle KØLFV, **Second** Al WØRC, **Passed.**

Treasurer's Report: Treasurer's report submitted showing all month's account transactions and balances to date. With an insurance renewal bill coming due soon. The treasurer confirmed permission to transfer funds between Club accounts.

Motion to accept: John WØWY, **Second** Al WØRC, **Passed.**

Membership Meeting Program: Steve NØCRM reviewed recent and future Club programs and events. Future Club programs possibilities include: **Station Grounding by Crow Wing Power's Pat Goff, ARRL Division Update, and Internet Connectivity Update.** The **Holiday meeting dates** will be November 19 and December 17.

Upcoming Events: Ron KØGOP reported on a possible Club Activity to replace the perennial **Goblin Watch**, which was eliminated last year. **Brainerd's Northland Arboretum** host's a "**Haunted Trail**" fundraising event for 2 consecutive nights each October. There is a need for communications along the 1/2-mile trail and its 9 stations staffed by local groups of performers. A similar approach is envisioned with an NCS at the Visitors Center, and 8-10 operators using HT's at the trail stops. It was decided that the Club needs another activity to replace the former **Goblin Watch** and **Cuyuna Bike Ride**, so will present this idea to the membership at the 7 PM meeting. The event is Thursday, Oct 15 – Friday Oct 16, 5:30 PM - 8:30 PM.

Digital & Emergency Communications: Steve NØCRM encouraged the Club to reach out to the new Brainerd Fire Chief to maintain the good relationship the Club has had over the past with the department and staff. John WØWY and Lyle KØLFV reported the Club is finishing work on its area within the new EOC facility. John proposed adding a PL tone to the 147.225 repeater to eliminate false triggering issues. The 110.9Hz tone already programmed into the Club HT's will be used.

Motion to accept: John WØWY, **Second** Doug KDØERE, **Passed.**

Steve led a discussion of our new network digital repeater system and prepared several illustrated diagrams to clarify its structure and function. Several options and refinements were discussed, with Mitch ADØHJ, and Michael KEØAFZ on hand to advise among several network and control considerations. Using equipment already purchased by the club, suggestions were made for the next step in the process. A motion was made to purchase the following additional components: CL100 for \$399, CAT 200 for \$249, URI and Beaglebone for \$100. **Motion to accept:** John WØWY, **Second** Steve NØCRM, **Passed.**

New Business: The Board declined the offer of the Little Falls **Digital Amateur Radio Club (DARC)** to partner in a **D-STAR (Icom)** repeater installation at the old south Brainerd 145.130 site. Al WØRC reported that the Club **PACKET** station is again in service using the old 145.130 repeater antenna on 145.670 MHz simplex.

The board meeting was adjourned at 5:15 PM.

Thursday- September 24, 2015 - 7:00 PM - BAARC Membership Meeting Minutes**Brainerd Fire Station**

Attendees: The President opened the Club membership business meeting at 7:00 PM with 19 members and guests present.

Information supplemental to Board Meeting Minutes: The membership expressed interest and will add the Haunted Trail event to our October calendar. A sign-up sheet was started, with additional operators needed. Contact Event Chair Ron KØGOP with your availability for one or both nights; an event email will be sent to all members. Ron gave a program on Civil Air Patrol SAREVAL Communications.

--Respectfully submitted by **Ron KØGOP**, Secretary

IARU Monitoring System Reports Increased Russian Military Traffic on Ham Bands—from ARRL Letter

The September edition of the IARU Region 1 Monitoring System ([IARUMS](#)) newsletter has reported that Russian Military traffic in the Amateur Radio 7 and 14 MHz bands increased during August. At least some of these intruders were likely to be audible in other parts of the world. Monitors in Europe reported a Russian over-the-horizon (OTH) radar in Gorodezh on 14.108 MHz, causing strong interference daily and often exhibiting splatter. In addition the Russian Navy was reported active frequently on 14.192.0 MHz using FM CW. Other monitoring stations in Germany reported numerous Chinese OTH radars in other bands, including on 75 meters.

Region 1 IARUMS Coordinator and veteran monitor Wolf Hadel, DK2OM, [recently told](#) the [Rusk County Amateur Radio Club](#) in East Texas that some of the worst offenders are OTH facilities in Russia and Iran. The signals can result in broad swaths of noise in the 20 meter band, he said. During his VoIP talk, Hadel pointed out that recruiting volunteer monitors with the "right equipment" is difficult, and he encouraged club members to join the hunt for ham band intruders.

According to Region 1 monitors, intruding signals said to be coming from Spanish fishing vessels have now been reported on all amateur bands -- shared and exclusive. A beacon, reported to be in Kazakhstan, has been transmitting "V" on 7027.5 kHz continuously. Apparent North Korean diplomatic traffic from the DPRK embassy in Moscow has been [heard](#) on 14.109.5 MHz.

Mario Taeubel, DG0JBJ, observed 31 OTH radars on 20 meters, 28 OTH radars on 15 meters, and 11 OTH radars on 10 meters during August. In addition, a Chinese OTH radar has often appeared on 80 meters in IARU Region 3.

Monitors in Europe also have monitored transmissions between taxi drivers and dispatchers on Amateur Radio frequencies, primarily on 10 meters.

The ARRL recently forwarded reports from IARU Region 2 and Hawaii to R2 Monitoring System Coordinator Jorge Del Valle, TG9ADV. These included so-called drift net beacons on 10 meters (28.281 and 28.226 MHz), as well as digital, radar, and phone intruders heard on 20 meters in Hawaii.

Authorized by the IARU Administrative Council, [IARU Monitoring System](#) volunteers work under the guidance of the IARU International Monitoring System Coordinator and regional coordinators. The IARU Monitoring System operations are coordinated under the Monitoring System Committee.

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Know of a member needing a note of cheer? Let Fritz WØKO know. He is not a mind reader. His e-mail address is always on last page.

Our Breakfast Crew on 09-19-15 at the Northwind Grille—Photo taken by our waitress Sarah



Pictured standing l-r: Lyle KØLFV (Club V.P.), Pat WØOPW, Will WØZRJ of Baxter, Bill KH6OO (Will's dad, and Fritz WØKO. Seated l-r: Tom KTØMMY, Mitch ADØHJ, Charles W5CCL, and Doug KDØERE (Club Treasurer).

Latest On the T32DX—Eastern Kiribati DXpedition from Bill Kendall, KH6OO

Our assigned call is T32DX; look us up on QRZ.com for a view of the Island. It is nearly 4241 miles from MN, so aim your antenna in the 240-degree direction. We will be staying at the Captain Cook Hotel on the north end of the Island. Planes only fly in once a week. Mark your calendars because we hope to be on the air **October 27th to November 3rd.**

Our equipment was tested during the ARRL Field Day at Leech Lake and is now packed ready to ship. We have about 200 pounds to take including a KX3 and FT817, each with a 100-watt amplifier. Two antennas will be deployed near the beach: a vertical dipole and a full 1/4 wave elevated vertical. Our primary band will be 20 meters. We will have capability to operate 10 meters through 40 meters. Modes will be SSB, CW, and if conditions are not good, we will try for some JT9/65 digital. There is no Internet available, so logs will be posted as soon as we return. Logs will be uploaded to LOTW, e-QSL, Club Log, and QRZ Log. You can also request a paper QSL via OQRS on Club Log. We do plan to QSL 100% via the Bureau.

This trip has been in the planning stage for just over a year. **Will (WØZRJ)** and **John (NØPJV)**, my two sons, proposed this trip while visiting in Minnesota last year. This is my 60th year as a licensed radio amateur—thus a perfect celebration. I served in the U.S. Navy for a time as a Communications Technician and for you "Old timers," who might remember in the 1950's a signal from Adak, Alaska,—**KL7AIZ** my first DX operation. By the way, my first call sign was KNØCOU. We hope to see you in our log! —**TNX, Bill, for the update & good DXing with your sons. What a cool opportunity to honor your 60 years in ham radio! Suggestion to Club operators: you might also check regularly with the DXSummit site.**

Continued from Page 1—Ron’s presentation. Pictured is KØGOP in his well equipped communications trailer. TNX for the photo, Ron.



N.B.: See Page 1 and match up the tones and other information— more updates coming

• **Repeater/System Status:**

Freq	Name	Location	Other	Current Status
147.225		Crosby		Active, System Fusion, New antenna
145.130		Brd High-rise	Echolink Node	Active, New antenna
147.030		Crosslake		Active, New antenna
144.390		Brd High-rise	BRD APRS Node	Active
443.925		Gull Lake		Active
444.925		Crosby		Active
53.110		Brd High-rise		Active
146.700		Crow Wing Power		Inactive: System Fusion
145.67		Brd High-rise	Packet Node (Simplex)	Back on air 09/21

DX and the Paper Chase

The birds of summer have left for more friendly weather conditions. Our hummingbirds flew yesterday and are already being replaced with chickadees and Downey woodpeckers. Winter is on the way. Several weeks ago it was quite apparent that the HF bands have gone somewhere. Perhaps they're looking for nicer weather conditions too. Seriously, the sun activity has done a number on the upper bands with CME activity. It's difficult, but it is not impossible to dig up good DX. A couple of days ago on 17 meters there was no activity across the entire bandwidth. I swung the antenna to the east and began calling CQ until I was about to turn blue when suddenly there was an answer from Northern Ireland. Wow, this is really good DX I thought to myself—this is what it's all about. It isn't a rose garden, but it cemented in my own mind that there really is someone somewhere listening for my call. As all of you know, I'm a huge fan of calling CQ, and I'm not a bit bashful to get on the bands and let her rip. I was equally surprised by the poor CW signals on the band, but I answered anyone calling CQ—poor conditions or not. Nike has a great slogan "Just Do It" and it seemed to me that I would adopt their slogan even when conditions weren't the best and "Just Do It." So long from Huntersville for now and remember, sit down at your station and "Just Do It" because someone somewhere is listening for your call. Disappointing others is disappointing yourself by missing that good DX or perhaps a good rag chew. 73 es gud DX from **Bob/WØZPE**

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Our Website: **Michael KEØAFZ and TJ KØTEG** have volunteered to update/improve our Club's website. Thanks, Guys, for undertaking that very necessary job.

Our Digital Repeater System: **Mitch ADØHJ and Michael KEØAFZ** have agreed to advise us on the network and control solutions using already purchased gear. Thanks to both of you. See Minutes on p. 2.

**SUNDAY NIGHT NCS OPS**

|          |       |        |
|----------|-------|--------|
| 10-04-15 | Rick  | NØBJN  |
| 10-11-15 | Dave  | KCØTGT |
| 10-18-15 | Tim   | KDØYLO |
| 10-25-15 | Tim   | KDØYLO |
| 11-01-15 | Rick  | NØBJN  |
| 11-08-15 | Dave  | KCØTGT |
| 11-15-15 | Fritz | WØKO   |
| 11-22-15 | Tim   | KDØYLO |
| 11-29-15 | Tim   | KDØYLO |

Can't make the schedule? Find a substitute operator. BAARC Sunday Night Net Control Coordinator is Fritz WØKO. To volunteer: w0ko "at" arrl.net

**Would you like to take a turn at NCS?**

**ARRL Field Activities Report :** John WØWY, our ARRL Emergency Coordinator for Crow Wing County, regularly sends reports in to our State ARRL officials. The latest was for the BAARC's involvement with the Baxter Triathlon. Other counties are lacking—not ours. Good job, John, for the work done—and also thanks to all the volunteers who make these events happen!

**THANKS to AI WØRC**—he connected up the packet node and it is now operational again on 145.670. Also, a controller was installed, so the Club's Fusion Repeater is operational on 146.700. Check page 1 and page 6 for info listings of our repeaters, tones, and offsets.

**Also a BIG THANKS to WØWY**, our Emergency coordinator (the Club's and County's interface) and **Lyle KØLFV** (our busy VP and fundraiser) for the continued effort to get the EOC project completed. In addition, the remote HF station is progressing with the mounting of a trap dipole on the High Rise hopefully this fall.

**TNX, Shirley KØDCW**, for preparing & serving refreshments @ all monthly mtgs.

United We Stand



**First Class Mail**  
Address Correction Requested

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