



The BAARCeR



July 2016

For Anyone Interested in Amateur Radio

Page 1 of 8

Club Call Sign: WØUJ

BAARC REPEATERS
53.110 MHz- 123.0 Hz

Main Repeater in Crosby
147.225 MHz+ Crosby
Tone 110.9 Tx only

~~~~~  
146.700 MHz-  
Tone 141.3 Hz

~~~~~  
145.130 MHz- Echo
Link-Node Nr. 233515
AllStar Node 42508

~~~~~  
147.030 MHz+ Crosslake

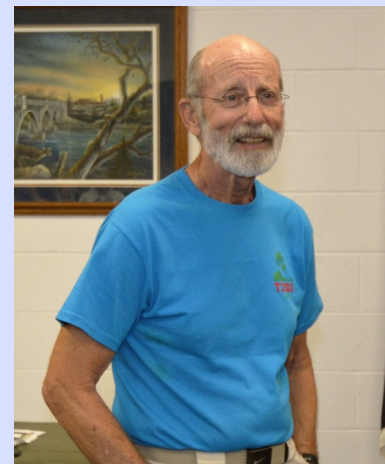
~~~~~  
443.925 MHz Gull Lake+
Tone 110.9 Hz

~~~~~  
444.925 MHz Crosby

~~~~~  
Packet: 145.010 MHz
MNBRD, BRDBBS
144.390 MHz WØUJ
APRS I-Gate Node

~~~~~  
**Officers for the Year  
are listed by name  
and title on Page 2—  
top of the Minutes —  
each month.**

**The Kendall T32DX Team consisted of Will Kendall, WØZRJ, on the left with his dad Bill Kendall, KH600, on the right. Another son, John Kendall, NØPJV,** also a part of the team, could not attend. Bill lives in Hawaii, Will in Baxter, and John in St. Paul. Bill has been a ham for over a half century, so the sons wanted to honor their father's influence in their lives as a parent—plus for sparking their interest in their shared hobby of amateur radio. So the sons flew from MN to HI, and from there with their dad they took a Fiji Airways flight to Christmas Island some distance south of HI in the Pacific. There is only one flight in/out per week. Needless to say, a lot of careful planning was done. Once there, they dealt with 90F temperatures and 90% humidity—luckily their Captain Cook Hotel had AC. They operated for 4 days and made over 3K QSOs on CW, SSB, and digital modes. Sixty countries were in that number. While there they celebrated Bill's birthday and managed some ocean fishing before returning to HI and MN. BAARC members enjoyed the presentation and had many questions answered by both. **A bonus was their generous donation to the Club—**



**Index  
of the BAARCeR**

|                                       |   |
|---------------------------------------|---|
| Minutes—KØGOP                         | 2 |
| WØZPE DX column<br>ARRL and FCC news  | 3 |
| Reports from TJ                       | 4 |
| FD PIX                                | 5 |
| FD—Report +<br>Donation — Kendalls'   | 6 |
| FD PIX                                | 7 |
| Last Word—Updates<br>Sunday Night Net | 8 |

**— Events Calendar —**

**Sat., July 2, Club Breakfast @ 9 @ Northwind Grille—Brd.**

**Sat., July 16, Club Breakfast @ 9 @ Northwind Grille —Brd.**

**Thurs., July 28 - Regular Monthly Board & BAARC membership Mtgs.  
@ 4 and 7 P.M. @ Brd. Fire Hall. —MN ARRL Section Presentation.**

**Please Pay Your 2016 Dues**

**Join/Rejoin—Still only \$20 Dues/ Year—Please get your check  
in to Doug WØDWB, BAARC TREASURER  
15912 Olsen Lane, Brainerd, MN 56401**

**HAPPY INDEPENENCE DAY—Relax, celebrate, and be safe.**

## Thursday-June 30, 2016 - 4:00 PM - BAARC Board Meeting Minutes Brainerd Fire Station

**President:** Steve Mott, NØCRM

**Vice President:** Lyle Amundson, KØLFV

**Treasurer:** Doug Bergsnev, WØDWB

**Secretary:** Ron Finger, KØGOP

**Past Presidents:** Charles Lane, W5CCL; Al Doree WØRC

**Director-At-Large:** Al Doree, WØRC

**Repeater Trustee:** Fritz Bertelt, WØKO

**Director of Emergency Communications:** John Luce, WØWY

**Community & Special Events Coordinator:** TJ Graves, KØTEG

**Attendees:** Lyle KØLFV, Doug WØDWB, Ron KØGOP, Al WØRC, Dave KØISZ, John WØWY, Shirley KØDCW, and Mitch ADØHJ.

Vice President Lyle KØLFV opened the Board Meeting at 4:10 PM.

**Secretary's Report:** Membership roster shows 84 paid members for June 2016. The Club website was updated for June including the June BAARCer and the Club Google calendar updated and linked to the website. Other activities included updating Gmail contact list and materials for Field Day '16 and the August 27 Tailgate Hamfest. **Motion to accept:** John WØWY, **Second** Al WØRC, **Passed.**

**Treasurer's Report:** Treasurer's report submitted showing all month's account transactions and balances to date. The Spring Dinner financial report was noted, and still remains in the black at the current ticket price. **Motion to accept:** John WØWY, **Second** Al WØRC, **Passed.**

**Membership Meeting Program:** Lyle KØLFV reviewed recent and future Club programs and events. Future Club programs include: **ARRL Dakota Division Visit** – July 28 with Skip Jackson.

**Upcoming Events: BAARC Picnic and Fox Hunt:** August 21 and the **BAARC Tailgate Hamfest & VE Testing:** August 27, 2016. An alternate location for the Picnic/Fox Hunt is being sought due to the sewer/water extension project underway through our usual Lum Park location.

**Digital & Emergency Communications:** Al WØRC and John WØWY gave updates on the **Club Repeaters.**

**New Business:** Several items were requested for the **Club Repeater Linking Project.**

**Motion:** Purchase the following: WIRES X HRI-200 interface, CL-100 Linking Interface, and PC. Not to exceed \$700.

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

**Motion:** Purchase 500 feet of RG-8X coax for Club use and member sale for \$175 and supply of PL-259 connectors for \$100.

**Motion to accept:** Ron KØGOP, **Second** Doug WØDWB, **Passed.**

The Secretary was asked to send a thank you letter and \$100 donation to Gary Doucette and the Crow Wing County Fair Board, for the recent years use of the fairground facilities during ARRL Field Day weekend. The Secretary was also asked to send a thank you letter and \$50 check to Brian of Brian's Welding for his recent repair work and past service on Club equipment.

John WØWY asked for Board assistance in drafting several MOU's with local agencies, for use in formalizing and clarifying ongoing arrangements and cooperation. The Secretary will assist in preparing the final documents following Board input.

The board meeting was adjourned at 4:58 PM.

## Thursday-June 30, 2016 - 7:00 PM - BAARC Membership Meeting Minutes Brainerd Fire Station

The President opened the Club membership business meeting at 7:00 PM with 32 members and guests present. Besides the aforementioned Board items, TJ KØTEG presented the new "**ACTIVE 911**" system device app, now available for Club Member *Emergency Event* notification use. Mitch ADØHJ presented the "**13 Colonies**" ARRL event running July 4th weekend. Lyle KØLFV and Ron KØGOP gave a recap of the past weekend **Field Day 16** Club activities.

A great program on the **T32DX DXpedition** to Christmas Island was given by Bill Kendall KH6OO and son Will WØZRJ. A very special door prize was generously offered by them: a complete 6-drawer military field desk and chair set (472-FLD-DESK-TA). The lucky winner of this item was Michael KEØAFZ! (I'm sure we will see this in use for the next Field Day)

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

## DX and the Paper Chase

Doldrums? Yes, but there were some pretty good openings for DX if you were alert. Remember, ya gotta call CQ— otherwise nobody can hear you on what's often referred to as a dead band. Okay, so there were 4 days in a row without a single sunspot to report and flat line spectrum scopes. Cycle 24 is fickle and has been since the git-go, and there are a couple of years left in the cycle. On a personal note, I used the card checker from the Brainerd Hamfest, and now I am 308 countries confirmed and registered with the ARRL. It's a great convenience to have a card checker reachable by mail and it is reliable too. Dave Bell (W6AQ) award-winning TV producer extraordinaire, DXer, contester, first-class DXpeditioner and a 50+year licensed Ham radio operator became a Silent Key this past May. Dave wrote a book entitled World's Greatest Hobby that is the best one related to our great hobby that I've read. It's available from Amazon for your tablet. That's a wrap for this month. So long from Huntersville, and remember to sit down at your station and call CQ—otherwise nobody will know you're there. Best 73 es gud DX from Bob/WØZPE.

## ARRL News—FCC—June 30, 2016

The FCC (its Office of Engineering and Technology —OET) said radiated emissions measurements must be performed at least from 30 MHz to 1000 MHz to adequately demonstrate compliance with Part 15 (15.109). Its guidance, the OET continued, applies to RF LED lighting devices that, in the past, have been considered to operate on frequencies below 1.705 MHz. Previously, devices operating between 9 kHz and 1705 kHz had to be tested only for radiated emissions up to 30 MHz, where no specified radiated emissions limits exist, and were exempt from testing from 30 MHz to 1000 MHz. The OET said it recognizes that routine radiated emissions measurements are needed under Part 15, based on the highest frequency generated or used in the device.

"[W]e have found that emissions from RF LED lighting devices are non-periodic, broadband in nature, and are produced as a byproduct of the internal driver circuitry within the RF LED lighting device," the OET "knowledge database" paper said. "These types of emissions have adequate energy and potential to generate radiated emissions well above 30 MHz."

The ARRL Lab's Electromagnetic Compatibility Engineer Mike Gruber, W1MG, said he was pleased to see the FCC's OET clarify the test measurement requirements. He said ARRL is generally hearing more RFI complaints stemming from RF LED bulbs.

**Tour of the Lakes Bicycle Event—Writeup provided by TJ KØTEG**

The BAARC supported the 27th Annual Tour of the Lakes Bike Ride on Saturday, June 4, 2015, with 14 radio operators. All four of our SAG Wagon operators were using APRS. The 2016 TOL Bike Ride had approximately 800 riders. TOL Bike Ride started from the Pequot Lakes High School and went east to then split with the long route going north to Fifty Lakes and back down through Crosslake to then meet up with the short route. The short route went east—then south through Mission Township and Nisswa. The two separate routes spread out our operators, but everyone did a great job. Thank you to TJ KØTEG for a great Net Control job; Al WØRC for handling the APRS; John WØWY , Terry KIØFW, Shirley KØDCW, Mitch ADØHJ, and Alan AAØAS. Roger WØWUG and Chris KDØLFA were our rovers. The four rest stops were covered by Doug WØDWB, Mary KCØNGM, Bob K6RCO, Lyle KØLFV, and Michael KEØAFZ. The Bike Ride organizers gave us a big thank you and were very happy with our service. Thank you to all our volunteer operators!

=====  
**Emergency Notification/Alert System—Thanks Again to TJ KØTEG for this Info**

The Crow Wing County Sheriff's Emergency Management Department is allowing us to use their Active 911 E-Paging Alert System to alert us of SKYWARN events or other needs.

There are several ways to receive notifications: You can download the Active 911 application to your smartphone, but it will also work with "dumb" phones by just sending a text message notification.

It also can send an email to your email address.

They also have just released software to receive your alerts on Windows 10 Computers and Tablets as well.

To sign up for Active 911, go to this [link](http://goo.gl/forms/K2FvGIN63etZh18v2) and enter your information. <http://goo.gl/forms/K2FvGIN63etZh18v2> After we have received most of our members, John Bowen will issue each member an Unique ID number that you will need to activate your app. I am able to assist anyone with getting it set up after your ID has been set up. **Contact Community & Special Events Coordinator TJ, KØTEG, with any questions at 218-316-0026**

\*\*\*\*\*  
**Concerned about Lightning Strikes?** If you live close enough to the Brainerd airport, you may be able to receive the continuous WX Beacon which, can sense lightning if present within its receiving range. It will say something like this: "Lightning in first quadrant." Other airports may broadcast such WX info as well. Brainerd's frequency is 126.775 MHz on AM.

\*\*\*\*\*  
**Editor's Note:** Page 1 has the correction of our Packet Repeater Freq. Thanks to Al WØRC for alerting the editor , who was asleep on his highly paid job —again!!!!



**3 Pages—Field Day-  
Photos provided by  
BAARC Members: Steve  
for the brkfst. crew, Lyle  
for the photo with his ham  
sons p. 7. Fritz for the rest  
-pp. 5 & 7.**



<http://mn-section.org/docs/GovernorsProclamation2016.pdf>

**Governor's Proclamation honoring MN hams**

## BAARC Field Day 2016 Report

Field Day 2016 was again a great success with a number of Club Members participating. We had a record number of stations set up, and this year most members reported that their stations and antennas worked good enough to make a number of contacts. Members who set up stations were Ron KØGOP, Mitch ADØAJ, Michael KEØAFZ, John WØWY and Steve NØCRM, Doug WØDWB and Charles W5CCL, Nick KØNJR, Rick WUØS, Terry KIØFW and the Club Trailer WØUJ. Modes of operation were SSB, Digital and some CW. Field Day Events always have a few challenges when setting up and operating. Setting up the Club Trailer we found that the antenna rotor was not working properly, and when installing another rotor we found that the cable did not have the correct connectors. So after some cable and connector modifications, we finally got the rotor to work to turn the beam antenna. Also when we starting to operate, a number of thunder storms appeared. Consequently operations shut down for 4 to 5 hours. After the storms passed, we were able to start normal operations. However, despite some of the obstacles that we encountered, we still had a successful event and were able to operate most of the Field Day hours and make numerous contacts with US and Canada F/D Stations. The statistical report on this page on the right is provided by **Mitch ADØHJ**. Many thanks to all who helped plan this event and to all who participated in making FD16 another Great Club Event. And it's not too soon to start planning your antennas and operating equipment for our upcoming 2017 Field Day Event.

Lyle KØLFV

FD16 Event Coordinator

|      | CW | DIG | SSB |
|------|----|-----|-----|
| 160M | 0  | 0   | 0   |
| 80M  | 0  | 0   | 8   |
| 40M  | 7  | 13  | 88  |
| 20M  | 40 | 36  | 115 |
| 15M  | 0  | 0   | 6   |
| 10M  | 0  | 0   | 0   |

54 QSOs - MLA ADØHJ  
 47 QSOs - PW WØØPW  
 38 QSOs - LVA KØLFV  
 38 QSOs - MAR KEØAFZ  
 34 QSOs - NJR KØNJR  
 26 QSOs - RDV WUØS  
 24 QSOs - RCF KØGOP  
 24 QSOs - TAM KIØFW  
 20 QSOs - DWB WØDWB  
 8 QSOs - SKM NØCRM

Statistics provided by Mitch ADØHJ

## KENDALLS' DONATION

**Below is the inventory conducted by Lyle KØLFV of the generous Kendalls' Donation. Thanks again, Bill, Will, and John. Google T32DX, and you will find their DXpedition info. Note: See Minutes also. VP Lyle KØLFV says that the Club will later decide which gear it wants for its purposes and what it will sell to raise funds for other Club improvements.**

ICOM IC-706 MKII HF/VHF/UHF All Mode-  
*(W/Narrow SSB & CW Filters)*

Sierra Wilderness QRP XCVR 15/20/40M2

Baofeng Dual Band VHF/UHF HTs *(UV5RE)*

Vectronics VEC-102K World Band Rcvr Kit

*(NIB Unassembled)*

MFJ-941D Antenna Tuner 300W

MFJ-1026 Noise Cancelling Antenna (NIB)

HPS40 Personal Hand Held Oscilloscope

MFJ-962D 1.5 KW Antenna Tuner

LDG RT-100 Antenna Tuner

MFJ-931 Artificial Ground

Palomar FT-340 Antenna Tuner

Heil ProSet PS-IC Communications Headset

Heil PMS IC Communications Headset

Heil PMS Communications Headset

Better RF Co IC-706 Tune Control Module

ICOM RMK-706 (MB-62 Mtg Brkt)

(MB-63 Mtg Brkt)

ICOM HM-118TN DTMF Handheld Mic.

Yaesu MH-36 Handheld Microphone

Signal Link SLC AB131 Cable

PanaVise Mobile Mtg Brkt W/Suction Cup

Yaesu FT-817 PSK Control Cable

W4RT Fast Charger FT-817

Small Padded Cases (Qty of 2)

Heil PR10 Desk Microphone

Vertex MLS-100 Mobile Speaker

Golf Bag Pelican Case with Misc Wire Antennas,

Coax and Basic Buddi Pole System

W3NQN Band Pass Filters for

40/20/12/17/10/15/30M

Data 4 Port Switch

Vectronics VEC-201 CW Keyer

Small Plastic Tool Box

**Field Day Photos—sorry, could not fit all in—esp. the antenna photos. More info on p. 6.**



**SUNDAY NIGHT NCS OPS**

|          |       |        |
|----------|-------|--------|
| 07-03-16 | Rick  | NØBJN  |
| 07-10-16 | Doug  | WØDWB  |
| 07-17-16 | TJ    | KØTEG  |
| 07-24-16 | Fritz | WØKO   |
| 07-31-16 | Tim   | KDØYLO |
|          |       |        |
| 08-07-16 | Rick  | NØBJN  |
| 08-14-16 | Doug  | WØDWB  |
| 08-21-16 | David | KCØTGT |
| 08-28-16 | 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?**

**Donation: Thanks to Jack K9CDM for a new ARRL 2015-16 Repeater Directory. It will be one of the door prizes given away at a future meeting.**

**License need renewal? Easy & Free—By being an ARRL member. Within 90 days of expiration of the ticket, the ARRL will notify you—then you can renew via the Internet. No hard copy of new licenses are provided—you have to download a printed copy on your ordinary paper—it saves the FCC and us money.**

**BTW—FCC was petitioned to grant lifetime licenses to hams—In June FCC ruled NO!**

**Happy to report on Jim WØJDS—he is home after a recent hospitalization. Hope to see him soon at a meeting/club event.**

**United We Stand**



**First Class Mail**  
Address Correction Requested

Brainerd Area Amateur Radio Club  
c/o M. Fritz Bertelt WØKO  
16167 Ahrens Hill Road  
Brainerd, MN 56401