

From the NCARC President

Joe Hawley KDØTYU

president@ncarc.net

We've had some exciting things going on in the last few weeks, and I'd like to remind you of them. As most of you know, we've added our 9th repeater with the Grover project. It's up and running on 449.600 Hz, 100 Hz tone; we've also connected this repeater to our Horsetooth 447.275 repeater as a permanent link.

However, during Skywarn season this will be linked to one of our Buckhorn repeaters to help with weather spotting. The Grover repeater will be returned to the Horsetooth when the net closes. I'd like to thank everybody that worked on that system in one way or another. Some members assisted with preparing, planning, and installing the system; we owe a big thanks to them.

A few new things that we have on the agenda for NCARC are our unique souvenirs which hopefully will be available shortly. We will have patches, stickers as well as T-shirts for sale.

We also have our holiday party coming up in mid-December. We hope to provide more information very soon.

We also have our Winter HamFest coming up on January 15th, 2022; we still have some excellent tables available, so now would be a perfect time to purchase those while the selection is best. We are also in negotiations with a large group of presenters. This should be one of our best shows yet.

I've said this many times, and I'll repeat it. I want to thank everybody for supporting us during the pandemic; hopefully, 2022 will be an excellent non-pandemic year.

Public Affairs Office

Dave Winnett WØDDZ

pao@ncarc.net

Numbers as of November 16, 2021

YouTube

Views (last 28 days): 3.040

Watch time (hours, last 28 days): 530.9

Subscribers: 2,152

New Subscribers (last 28 days): 43

Facebook

Members: 475

New Members: 14



Club Meeting and Speaker (*You!*)

Next Meeting

Saturday, November 20, 2021

9:00 am socialize, **9:30 am** club meeting, followed by Show and Tell:

LIVE and IN PERSON at
The Golden Corral
1360 Sculptor Dr, Loveland CO 80537

PLUS

Zoom streaming
All members will receive a link to the online broadcast

If you don't receive a link by Friday before the meeting, please email treasurer@ncarc.net

You choose what you feel comfortable doing: attend in person or on line.

Speaker:

You!

Show and Tell!

**Please bring in your best radio, antennae
or anything you would like to share and show.**

Get the Goods!

We have a new store – for clothing and a variety of other items! We've always had monogrammed clothing (<http://www.ncarc.net/?q=node/424>) and will be adding additional items such as stickers, t-shirts, patches, water bottles and keychains. Joe will bring what is currently in stock to the club meeting on November 20 if you want to check it out or buy something. And keep an eye out for the new and improved Store coming soon to our website.

Treasurer's Report

Darren Kalmbach KCØZIE

treasurer@ncarc.net

October 2021 Account Balances

Account	Checking	Raffle	Savings	PayPal	Total
Beginning Balance	\$579	\$2,081	\$669	\$8,098	\$11,428
Deposits	\$0	\$0	\$0	\$999	\$999
Transfers	\$3,000	\$0	-\$10	-\$3,000	-\$10
Withdrawals	\$2,506	\$0	\$0	\$54	\$2,560
Ending Balance	\$1,073	\$2,081	\$659	\$6,044	\$9,858
Outstanding Items	\$0	\$0	\$0	\$0	\$0
Net Balance	\$1,073	\$2,081	\$659	\$6,044	\$9,858
Net Change	\$494	\$0	-\$10	-\$2,055	-\$1,571

Expenses: Storage, Buckhorn camera, Ranch deposit, Insurance

Revenue: Memberships, donations, HamFest sponsorships, HamFest tables

Membership Activity:

October 2021: 264 Members (4 new)

October 2020: 265 Members

Rosin Corps Update!

We have a location for the Rosin Corps in Loveland (thank you Bob Schmid for helping find this)! Classes will start in January 2022. The Rosin Corps is a hands-on learning session where you will learn how to solder, assemble boards and build your project. These classes are open to any NCARC member at no cost, however there may be a small charge for kits or supplies. For more information on how to register, please contact Joe KDØTYU president@ncarc.net. Additional information will be available on the website closer to the start of classes.

Tech Report

James Cizek, KIØKN

techchair@ncarc.net

November 2021

Grover

A quick reminder that although the Grover repeater can be heard in the Fort Collins/Loveland area, that is not its intended coverage area. There is another repeater on 449.600 PL 100 located on Warren Mountain above Martin Marietta. It's a Yaesu Fusion repeater and we are in that repeater's coverage area here along the Front Range. If you hear a digital repeater signal on 449.600, that's likely it and that is expected.

For now, Grover will stay linked to the 447.275 (and subsequently to the 447.750) for testing and community outreach.

VHF Performance

The next focus area is going to be getting VHF receive performance ironed out, especially at Buckhorn mountain where the VHF noise floor is up to almost 20 db higher than UHF. We have severe VHF receive performance issues there, and to a lesser extent, also on Horsetooth.

We'll be focusing on Rattlesnake Ranch voting receivers as well as other RX performance measures to help our VHF systems out. The reason for the extreme noise floor are the commercial FM broadcasters co-located with us. With 30 and 50+ kilowatt VHF transmitters there, they are pretty much obliterating the spectrum anywhere nearby.

Red Feather

We are continuing to look for a Red Feather site to provide coverage that direction to our members and community recreators. This continues to be a challenge, but there are still a few possibilities we are investigating!

Resources

General Information About the Propagation Info on qrz.com.

Contributed by Mike Hickerson, WBØMH

SFI refers to Solar Flux Index. The higher the number, the better.

A index refers to the geo-magnetic field index. The lower the number the better.

K index refers to the AVERAGE geo-magnetic index. The lower the number the better.

The *MUF bar* refers to the Maximum Usable Frequency. Not being posted.

The *HF conditions* are general usable conditions.

The *MUF US Boulder bar* refers to the RELIABLE Maximum Usable Frequency.

NOAA transmits a signal through the entire HF band to test where the best propagation occurs. You may hear a whoop starting from a low sound to a high sound at times. That is NOAA testing the F1 and F2 layers.

The information postings are made on a routine basis and posted to QRZ.COM when they are released from their sources.

HamFest! HamFest! HamFest!

The 2022 NCARC HamFest is almost here!
Check out our HamFest Sponsors:

Fort Collins Dodge Chrysler Ram Jeep

<https://www.fortcollinsjeep.com/>

<https://www.fortcollinsdcr.com/>

RT Systems – “Radio Programming Made Easy”

<https://www.rtsystemsinc.com/>

Poudre Valley REA

<https://pvrea.coop/>

We're very grateful for their Sponsorship!

Repeater Feedback



Got a comment on our repeaters? Something not working? Any other problem with our system?

Don't just talk about it on the air. Send an email to TechFeedback@ncarc.net. Use this email to report any problems or suggest improvements. It will be read by those that can fix the problem.

Grover Repeater is On-Air



The new low-power repeater located northeast of Grover is up and running thanks to a great team of people! Special thanks to Mark Skelton N7CTM for climbing the Buckhorn tower in a wild wind! The Grover team was:

KCØZIE
KDØTYU

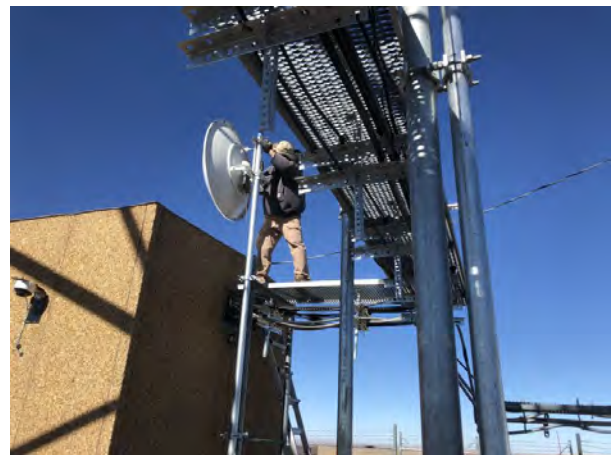
NØEMP
KEØLCK

KØBEC
KIØKN

The repeater is currently linked to 447.275 Horsetooth to facilitate testing. We will linking and use at the upcoming Club meeting. If you are traveling in the northeast section of the state, please check it out and provide coverage and performance reports to James Cizek.

Long term we plan to link this site into Sterling and expand repeater coverage in that direction!

The Grover repeater is at: 449.600, negative offset: 100.0 Hz tone



Major Contest Calendar – 2022

Contributed by Bill Beach KØUT

Are you into contesting? Check out the following websites for contest calendars.

<https://contestcalendar.com/>

<https://www.arrl.org/contest-calendar>

Here are some of the major contests for 2022:

<u>Date</u>	<u>Contest</u>	<u>Date</u>	<u>Contest</u>
Jan 8-9	ARRL RTTY Roundup	Jul 9-10	IARU HF World Championship
Jan 15-16	North American QSO Party – CW	Jul 16-17	North American QSO Party – RTTY
Jan 22-23	North American QSO Party – SSB		
		Aug 6-7	North American QSO Party – CW
Feb 5-6	North American Sprint – CW	Aug 20-21	North American QSO Party – SSB
Feb 12-13	CQ World Wide WPX – RTTY	Aug 21	Rookie Roundup – RTTY
Feb 14-18	School Club Roundup		
Feb 19-20	ARRL International DX – CW	Sep 24-25	CQ World Wide DX Contest – RTTY
Feb 26-27	North American QSO Party – RTTY		
		Oct 17-21	School Club Roundup
Mar 5-6	ARRL International DX – SSB	Oct 29-30	CQ World Wide DX Contest – SSB
Mar 12-13	North American Sprint – RTTY		
Mar 26-27	CQ World Wide WPX – SSB	Nov 5-7	ARRL November Sweepstakes – CW
		Nov 19-21	ARRL November Sweepstakes – Phone
Apr 10	ARRL Rookie Roundup – Phone	Nov 26-27	CQ World Wide DX Contest – CW
May 28-29	CQ World Wide WPX – CW	Dec 2-4	ARRL 160 Meter Contest
		Dec 10-11	ARRL 10 Meter Contest
Jun 25-26	ARRL Field Day	Dec 18	ARRL Rookie Roundup – CW

Upcoming Ham Radio Events

NCARC HamFest: Jan 15, 2022, Loveland, CO

Club Picnic Pics:

Here are a couple of pictures from the NCARC Annual Club Picnic on September 18, 2021.

If you have pictures you'd like to contribute, please send to Ann at newsletter@ncarc.net



From the Editor

Ann Donoghue KØARD

newsletter@ncarc.net

Please send us your articles, your ideas for articles, and thoughts on how the *Tribander* can serve your needs. We welcome any articles of any length. We also welcome pictures of events, you, your shack, etc.