

## **Colorado Council of Amateur Radio Clubs**

c/o Wayne Heinen  
4131 S Andes Way  
Aurora, CO 80013-3831  
<http://www.ccarc.net>

### **Spring Meeting 23 April 2022 v1 (via virtual Zoom Meeting)**

Meeting was called to order by Chairman Doug Nielsen (N7LEM) at 1301.

- Introductions
  - See attached attendance
  
- Colorado ARRL Section Manager's Report
  - Robert Wareham (N0ESQ) reported on
    - Positive contributions of Colorado hams and thanks from CO section
    - Colorado ARRL membership status
    - ARRL new website
    - Resigning as of 30 June
    - Moving to Panama in July
    - Introduced succeeding Section Manager Amanda Alden (K1DDN)
  - Amanda Alden (K1DDN) reported on
    - ARRL Club grants up to \$25,000
    - Available 4 May
  
- Secretary's Report & Approval of Minutes from Fall 2021
  - Motion to accept as posted on website by John Maxwell (W0VG), seconded by Dave Johnston (W8XAL)
  - Motion passed
  
- Treasurer's Report
  - See attached report
  
- Frequency Coordinator's Report
  - See attached report
  
- Old Business
  - Any new Repeater de-coordinations
    - Discussed whether to include K0LMD (CID 88) in de-coordinations
    - Motion to de-coordinate all six repeaters in the FC's report by Jeff Ryan (K0RM), seconded by John Maxwell (W0VG)
    - Motion passed
  - Repeater Maps
    - Out of maps
    - Takes about 18 months to sell 300 maps

- Wayne Heinen moved that the CCARC approve the expenditure of \$187.50 (plus nominal shipping) to produce our next 300 maps as soon as the Frequency Coordinator deems the database current for printing and that the face retail price be raised to \$4.00 from the current \$3.00, seconded by John Maxwell (W0VG)
      - Motion passed
      - Wayne Heinen moved that the CCARC authorize the payment of \$442.00 to Peak Printing to obtain 300 sheets the special paper used to print our future editions of CCARC maps, seconded by John Maxwell (W0VG)
      - Motion passed
    - Articles and Bylaws housekeeping items
      - Dennis Major's comments
        - Chairman appointed Dennis (N0ABC) to form and head an ad-hoc committee to address comments and clarifications
      - Registered Agent change to Articles
        - Motion to change Registered Agent from Robert Wareham to The Law Center P.C. by Doug Sharp (K2AD), seconded by John Maxwell (W0VG)
        - Motion passed
        - Robert stated he would file change
- New Business
  - FUP Proposal
    - Willem Schreuder (AC0KQ) reported on changes/corrections to FUP and demonstrated on line version
    - See attached report
    - Motion to use the electronic FUPs linked from the website as the official plans and to retire the old PDFs by John Maxwell (W0VG), seconded by Doug Sharp (K2AD)
    - Motion passed
  - Officer elections
    - Nominating committee reported the following slate of candidates
      - Chairman – John Maxwell (W0VG), Doug Nielsen (N7LEM)
      - Secretary – Emit Hurdelbrink (W0UAW)
      - Frequency Coordinator - Tracy Helmholt (KI0HC)
    - Doug withdrew his name from slate for Chairman
    - No additional nominations from the floor
    - Motion to close nominations by Wayne Heinen (N0POH), seconded by Dave Novotny (WA6IFI)
    - Motion passed
    - Motion to to approve the three candidates by acclamation by Jeff Ryan (K0RM), seconded by Doug Sharp (K2AD)
    - Motion passed
  - Colorado QSO Party sponsorship
    - Motion to sponsor 10 plaques for \$450 (\$45 each) made by John Maxwell (W0VG), seconded by Mark Skelton (N7CTM).
    - Motion passed
  - Any other new business
    - Wayne moved to expend \$275 to file a Form 1023-EZ with the IRS to obtain 501 (c)(3) Tax Exempt Status, seconded by Mark Skelton (N7CTM)

- Motion passed
  - Willem (AC0KQ) volunteered to present on transferring of repeater owner of record after the end of the official meeting
  - Amanda (K1DDN) reported on
    - FCC licensing fees
    - ARRL Field Day
      - Please report your clubs event location
    - Colorado Section Facebook page
    - Dirty 30 Event in Golden, Friday 3 June
      - Need volunteers, especially ARES & AUXCOM members
    - IEEE Antenna and Propagation Symposium 12-14 July
      - Need volunteers to man booth and one VE session
    - Will attend club Zoom meetings
  - Doug Sharp reported on interference with Colorado Connection systems
- Next meeting date and location selection
    - Saturday 22 October 2022
    - Virtual via Zoom
    - Possibly hybrid in-person/Zoom if location with suitable internet found
  - Motion to close meeting by John Maxwell (W0VG), seconded by many.
    - Motion passed
    - Chairman adjourned meeting at 1430

Votes	Club/Repeater Owner	Delegate	Here	Alternate	Here	V	Proxy
2	285 Techconnect Radio Club	Jim Langsted KC0RPS		Jim Moravec N0COT			
2	Arapahoe County ARES Inc	Peter Meer KC0VAQ		Zeke Ragsdale K0XK			
3	Aurora Repeater Association	Wayne Heinen N0POH	X	Steven Cearley K0IBM			
2	Big Sandy ARC	Ed Johnson AD5MQ		Doug Freeman KE0GVY			
3	Boulder Amateur Radio Club	George Packer WB0CDI	X	Michael Derr W3DIF	X		
3	Boulder County ARES	Jerry Schmidt N0OUW	X	George Weber KA0BSA			
4	Cheyenne Mountain Repeater Group	David Novotny WA6IFI	X	Michael Palmer K0HYT	X		
4	Colorado Connection Repeaters	Doug Sharp K2AD	X	John Thomson W0IG			
4	Colorado Repeater Assn	Matt Sturtz KB0KZR		Dave Maciorowski WA1JHK	X	V	
2	Colorado Traffic League	Dave Johnston W8XAL	X	Willem Schreuder AC0KQ	X		
3	CSU AMATEUR RADIO CLUB	James Cizek K10KN					
4	Denver Radio Club	Gerry Villhauer W0GV		Orlen Wolf WW0LF	X	V	
2	Denver Radio League	Tom Dall KD4DT		David Mayzes KC7MP			
2	Denver Water Amateur Radio Club	Mark Thomas N0RX	X				
2	Durango Amateur Radio Club	David Bygel KD0WWT	X	John Kastak N9NLC			
2	Estes Valley Amateur Radio Club	Larry Olson W9INE	X	Art Heister KA6WSI			
3	Fun Machine Linked Repeater System	Jeff Carrier K0JSC	X	Michael Gurski K0GUR			
2	Garden of the Gods Amateur Radio Club	David Givan K0IRP		Donald Yowell K10IS			
3	Grand Mesa Contesters of Colorado	Dan Norman N0HF		Ken Anderson W0ETT			
2	Indian Peaks Radio Club	John Adler KD6CFW		Matt Reynolds KD0PYK			
4	Longmont ARC	Bryan Gonderinger AF0W	X	Chuck Poch K0ITP			
2	Loveland Repeater Association	Dennis Dyer W0XYZ	X	Rob Strieby W0FT			
2	Mile High DX Association	Richard Williams K8ZTT		Jonathan Woo W6GX			
3	Montrose Amateur Radio Club	Chris Depuy WB0ITG		Steve Schroder K10KY	X		
2	Mountain Amateur Radio Club	Laird Johnson KD0VNV		Bill Wallick KC0FNV			
4	Northern Colorado Amateur Radio Club	Wayne Hall AD0KE	X	Jim Lacy K0BEC			
4	Parker Radio Association Inc	Dan Grady N2SRK	X	Justin Daniels AE2L			
1	Paul Deeth WA2YZT	Paul Deeth WA2YZT		XXXXXXXX			
3	Pikes Peak FMA	Rob Roller N7LV	X	Dennis Major N0ABC	X		
4	Pikes Peak Radio Amateur Association	Doug Nielsen N7LEM	X	Jim Bishop KD0KQL			
3	Pueblo ARC	Mark Balsick W0AOK	X	Steve Worley WB0SLW			
3	Pueblo West Amateur Radio Club	Randy Linnen KE0GMS		Jim McConnell NE0DA			
3	RADOPS of El Jebel	James Oliver AG0F		Emit Hurdelbrink W0UAW			

Votes	Club/Repeater Owner	Delegate	Here	Alternate	Here	V	Proxy
4	Rocky Mountain Ham Radio	John Maxwell W0VG	X	Mark Skelton N7CTM			
4	Rocky Mountain Radio League	Joe Dickinson W7OC		Dunnigan M MacIlwaine K1DUN			
3	Royal Gorge Amateur Radio Club	Dennis Glowienka WB0WDF		Mike Schnobrich K0YI			
2	San Luis Valley Amateur Radio Assn	Dave Newmyer N0KM	X	Bob Galey KE0JDN			
4	Ski Country Amateur Radio Club	Tony Ferris NA0US		Kevin Milner KD0MA	X		
1	Summit County Amateur Radio Club	Paul Shackelford WBOQMR		Gary Peterson KB0DEB			
1	Tracy Helmholt KIHC	Tracy Helmholt K10HC	CA	XXXXXXXX		V	Mark Skelton N7CTM
3	Tri-Lakes Monument Radio Association	Paul Swanson AA0K		Bob Witte K0NR			
3	Weld Amateur Radio Society	Neil Temmer KD0MRY		Gregg Peter K0GWP			
3	Western Colorado Amateur Radio Club	Steve Delaloye KE0BPD		Brad Chestnut AK0BC			
1	Rocky Mountain Division Director	Jeff Ryan K0RM	X	XXXXXXXX			
1	Colorado Section Manager	Robert Wareham N0ESQ	X	XXXXXXXX			
Guest		Amanda Alden K1DDE	x				
	Total Attendees		23		8		31
	Voting Delegate/Alternate						
	Proxy Delegates						
	2022 Current Member Clubs						
	2022 Delinquent Clubs						

**Spring 2022 CCARC Treasurer's Report – April 23, 2022**

Beginning balance from Fall Meeting Report Dated October 23, 2021 **\$6,970.22**

**INCOME**

**Dues Received from:** Adams-Arapahoe County ARES, Aurora Repeater Assn, Big Sandy ARC, Boulder ARC, Boulder County ARES, Cheyenne Mountain Repeater Group, Colorado Connection Repeaters Inc, Colorado Repeater Assn, Colorado State University ARC, Colorado Traffic League, Denver Radio Club, Denver Radio League, Denver Water Amateur Radio Club, Durango ARC, Estes Valley ARC, Fun Machine Linked Repeater System, Garden of the Gods ARC, Indian Peaks Radio Club, Longmont ARC, Loveland Repeater Association, Mile High DX Assn., Montrose ARC, Northern Colorado ARC, Parker Radio Association, Paul Deeth Pikes Peak FM Association, Pikes Peak Radio Amateur Assn, Pueblo ARC, Pueblo West Amateur Radio Club, Radops of El Jebel, Rocky Mountain Ham Radio, Rocky Mountain Radio League, Royal Gorge ARC, San Luis Valley ARA, Ski Country Amateur Radio Club, Summit County ARC, Tracy Helmhold K10HC, Tri-Lakes Monument Fire Radio Assn, Weld Amateur Radio Society, Western Colorado Amateur Radio Club.

<b>Date</b>	<b>From</b>	<b>For</b>	<b>Amount</b>
Various	Above Listed Members	Dues	\$498.20
10/24/2021	Estes Valley ARC	Maps (20)	\$42.56
10/27/2021	Larry Olson	Donation	\$25.00
11/12/2021	Ham Radio Outlet	Maps (80)	\$160.00
<b>Total Income</b>			<b>\$725.76</b>

**EXPENSES**

<b>Date</b>	<b>To</b>	<b>For</b>	<b>Amount</b>
Various	Pay Pal	Use Fees	\$38.19
03/22/2022	Wayne Heinen	Treasurer's Expenses (Exec Approved)	\$28.01
03/23/2022	Rocky Mountain Ham Radio	Updraft Software License Fee (Exec Approved)	\$12.50
<b>Total Expenses</b>			<b>\$78.70</b>
<b>\$78.04</b>			
<b>Ending Balance</b>			<b>\$7,617.28</b>

**Available Balance **\$7,617.28****

Prepared by Wayne Heinen NØPOH Treasurer

## FC Report Spring 2022

### Stats since October 23, 2021

New Coordinations	7
2m	1
70cm	6

Recoordinations	
Approved	6
Denied	1

- Recoordinations mostly cleaning up what is in the database, making small corrections to locations, fixing AHAAT, (antenna height above average terrain) updating antenna and repeater info.

Cancelled Coordinations 9

Applications on the Waitlist	
2m	3

Applications Pending 0

Overdue Annual Reports 63

Active Coordinations 483

### Proposed to Decoordinate:

Plan to decoordinate (6) at the Spring meeting 2022!

These (5) brought forth in the last meeting

CID	Call	Frequency	City	Status	Last Update
405	KD5LWU	146.7900	Cortez	Proposed de-coordinate	2018-04-03
406	KD5LWU	449.1750	Cortez	Proposed de-coordinate	2018-04-03
583	KF0KR	447.7000	Pueblo	Proposed de-coordinate	2018-05-11
584	KF0KR	927.9125	Pueblo	Proposed de-coordinate	2018-05-11
681	KF0KR	446.8625	Pueblo	Proposed de-coordinate	2018-05-11

History on CID 88 that we would like to decoordinate as well or push to the fall meeting.

CID	Call	Frequency	City	Status	Last Update
88	K0LMD	146.7900	Wray	Proposed de-coordinate	2020-11-07

- 10/25/20 – proposed decoordination
- 11/07/20 – K0LMD did annual update that it was Coordinated – Off Air (since 2015)
- 12/06/21 – Annual update reminder sent
- 4/03/22 – K0LMD SK 8/1/2021 propose decoordination

Can't reassign until it is decoordinated

#### Frequency Tool:

- WEB Portal - <https://coordination.ccarc.net/>
- Use the web portal to submit and update all frequency coordinations. Please don't send an email and say that you're on the air! Use the frequency tool!
- "Be sure to whitelist [fcadmin@ccarc.net](mailto:fcadmin@ccarc.net) so you get our emails! And don't delete them prematurely!
- Willem has put in many hours to make this tool easier to use.
  - Orange "nag buttons" and shortcuts (pay special attention to orange buttons)
  - Transfer holder of record
  - "Message" and "upload document" to add info to the permanent record
  - Neighboring states repeaters in UT, WY, NM, NE and OK were added to streamline coordination. We are still waiting on data from KS.

PLEASE UPDATE YOUR COORDINATIONS – we want accurate data in the database. We can only get better with your help!

## Reminders

- PLEASE UPDATE YOUR COORDINATIONS – we want accurate data in the database. Tell us what you really have on the air!
- Recommend to have another person other than the holder of record to be able access the coordination record. This way updates and decoordinations can be completed. NOTE: The only way the holder of record can be updated is by having login password or access to holder of record email.
- The tool makes it so easy to check your Lat & long with the blue button (show on map) it takes you to Google maps! And if that's not where your repeater is FIX IT!
- You also have another blue button in the site location (Check AHAAT) all this needs to be accurate! We use the (AHAAT) >1000' or >2000' we protect it further out! That is just as important as the location.
- We have had clubs & repeater owners with 20+ years on a coordinated frequency pair that have failed to check their coordination for accuracy. Some have been more than 10+ miles off and at the bottom of the mountain instead of the top. We use your information to coordinate others.
- Remember JUNK IN JUNK OUT!
- WE CANNOT PROTECT YOUR COORDINATION IF WE DO NOT HAVE ACCURATE INFO



## CCARC Frequency Use Plan Update

April 23, 2022

Tracy KI0HC and Willem AC0KQ<sup>1</sup>

The current versions of the official CCARC Frequency Use Plan (FUP) for some bands are almost 20 years old. The original documents have been lost and only the PDF versions of the documents remain.

To provide the FUP in a consistent format, we incorporated the current FUP in the CCARC Web Portal. As part of this process, we implemented automated consistency checks and discovered a number of issues.

This document describes proposed updates to the FUP to resolve these inconsistencies. The proposed updates do not change the FUP, but are simply intended to make the FUP as previously approved internally consistent.

To reduce the chances of users misinterpreting frequencies available for simplex channels, the frequency ranges for simplex frequencies will be shown as the dial frequencies. The guard bands for the simplex frequencies are incorporated in adjacent sub-bands.

Specific proposed changes to frequency ranges and tables are shown in Appendix 1.

The FUP is inconsistent in how duplex channels (a.k.a repeater pairs) are described. For example, the terms "Repeater", "FM Repeater" and "Wideband Repeater" are used depending on the band. We propose to modify these references in the FUP to consistently use wideband or narrowband, with permitted modes set according to the bandwidth used by each mode. As in the current FUP, the term Repeater will mean general access machines and Auxiliary will mean limited access devices such as links, while special cases such as hotspots (low power devices), ATV and 100kHz digital channels will be identified as such.

We are seeking approval from the Delegates to publish the official FUP using the Web Portal.

<sup>1</sup> Incorporates corrections provided by Wayne N0POH, Dennis N0ABC and Bob K0NR

## Appendix 1: Proposed Changes by Band

### **10m: 28-29.7 MHz (No PDF)**

Adopt ARRL band plan and legacy channels implemented in RCTK\*.

### **6m: 50-54MHz (No PDF)**

Adopt ARRL band plan and legacy channels implemented in RCTK\*.

### **2m: 144.000-148.000 MHz (Rev B 2005)**

**146.010-146.370 FM Repeater Inputs:** Change frequency range to 146.000-146.400 to fill gaps in the FUP and match 146.985/146.385 in the Repeater Pairs table.

**146.400-146.580 FM Voice Simplex:** Change frequency range to 146.400-146.595 to fill gap in the FUP and match 146.595 in the FM Voice Simplex table.

**146.610-147.390 FM Repeater Outputs:** Change frequency range to 146.595-147.405 to fill gap in the FUP and match 146.985/146.385 in the Repeater Pairs table.

**147.420-147.570 FM Voice Simplex:** Change frequency range to 147.405-147.585 to fill gap in the FUP and match 147.585 in the FM Voice Simplex table.

**147.600-147.990 FM Repeater Inputs:** Change frequency range to 147.585-148.000 to fill gaps in the FUP.

### **1.25m: 222-225 MHz (Rev B 2005)**

**223.390:** Change to 223.400 to show dial frequency for simplex channels.

**223.530:** Change to 223.520 to show dial frequency for simplex channels.

### **70cm: 440-450 MHz (Rev E 2018)**

**441.300:** Change to 441.275 to show dial frequency for simplex channels.

**446.300:** Change to 446.275 to show dial frequency for simplex channels.

### **33cm: 902-928 MHz (Rev C 2016)**

Show 46CFR 97.303(n)3 explicitly.

### **23cm: 1240-1300 MHz (Rev 2008)**

**Auxilliary Full Duplex table:** Currently inputs are 1258-1260 MHz and outputs are 1270-1272 MHz. Replace this table entirely with 1258-1260 MHz outputs and 1246-1248 MHz inputs as specified in the FUP.

\***RCTK** is the Repeater Coordinators Tool Kit. It is the legacy database of coordinations used by CCARC from 2003 until 2016. It has been replaced by the CCARC Web Portal.