

Colorado Council of Amateur Radio Clubs

P.O. Box 24244
Denver, CO 80224-0244
<http://www.ccarc.net>

Spring Meeting 16 May 2020 v1

(via virtual Zoom meeting)

Meeting was called to order by President Doug Nielsen (N7LEM) at 1300hrs.

- Introductions (See attached Delegate List)
- Secretary's Report & Approval of Minutes from Fall 2019 [posted on CCARC website]
 - Several changes were proposed and accepted to the fall meeting of Oct 12, 2019. Meeting minutes will be updated and published.
 - Discussion followed on the Special meeting of Oct 27, 2019.
 - Meeting minutes showed "Agenda" rather than "Minutes", change will be made and republished.
 - Motion to accept Gerry (W0GV), seconded by Tony Ferris (NA0US)
 - Motion was passed with one objection.
- Treasurer's Report [See attached]
 - Four clubs submitted application to become members of CCARC
 - San Luis Valley Amateur Radio Association
 - Eastern Colorado DX Assn
 - Fun Machine Linked Repeater System
 - Radops of El Jebel
 - Wayne made motion to accept each club individually. Motions were seconded and approved.
- Frequency Coordinator's Report (See attached)
 - Repeater Database
 - Backlog status
 - Proposed repeater decoordination was discussed for:
 - 586 KD0NDG 448.9500 Grand Junction
 - 602 ACOAU 147.1500 Lamar
 - 647 KD0LXQ 147.3750 Wildhorse
 - 232 WX5R 447.4250 Divide
 - 469 KCOFNE 447.3500 Greeley
 - 193 WORM 224.600 Rollinsville
 - 370 WA0VTO 449.8500 Pueblo
 - Annual update/on air reminders by mail

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- Comment and online database was explained by Willem (AC0KQ).
- Old Business:
 - Repeater Maps
 - Current status was given by Wayne (N0POH). No action taken.
- New Business:
 - Webmaster needed – Doug (N7LEM) encouraged delegates to offer suggestions.
 - Vice-Chairman vacancy:
 - Dave Johnson (W8XAL) volunteered to take the position for one year until the next scheduled election.
 - No other nominations were submitted to the group.
 - Dave Johnson was appointed by the Chairman, Doug (N7LEM).
 - Officer Elections nominations:
 - Nomination Committee proposes the following:
 - Chairman - Doug Nielsen (N7LEM)
 - Secretary - Emit Hurdelbrink (W0UAW)
 - Frequency Coordinator – Tracy Helmhold (K10HC)
 - No other nominations offered. Motion to accept: Gary (W0GV), second George (W0CDI)
 - Motion passed and individuals are elected to their respective positions.
 - Colorado Connection proposed Constitution change (attached)
 - Motion by Doug (K2AD), second Tony (NA0US)
 - Discussion followed on the proposed changes. Several delegates offered different points of view and prompted a language change to the motions presented. Doug (K2AD) will submit updated language to be included in minutes. Per constitution, these motions will be voted on at the next scheduled meeting.
 - Pikes Peak FM Association Pikes Peak Repeater status
 - Document attached. Additional effort needs to be made on these changes and submitted to the council.
 - Colorado QSO Party sponsorship
 - In the past, 10 awards were sponsored. Question asked if CCARC would still sponsor the awards (\$450). Motion to sponsor by Doug (K2AD) seconded by Dave (W8XAL).
 - Motion passed.

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- Colorado ARRL Section Manager's Report
 - Report attached.

- Next meeting date and location selection
 - October 2020 – Location to be determined based on any meeting restrictions.

- Chairman Doug (N7LEM) adjourned the meeting at 1608hrs

Willem (AC0KQ) offered a brief presentation on the Coordination Tool online after the meeting adjournment.

Colorado Council of Amateur Radio Council
Spring Meeting - 16 May 2020

Status	OrganizationName	Delegate	Call	H	Alternate	Callsign	H	Proxy
Current	285 Techconnect Radio Club	Jim Langsted	KCØRPS		Jim Moravec	NØCOT		
Current	Arapahoe County ARES Inc	Peter Meer	KCØVAQ		Zeke Ragsdale	KØXK		
	Arkansas Valley ARC	Ken Niles	NØEMU		Sharon K Agun	KCØPBR		
Current	Aurora Repeater Association	Wayne Heinen	NØPOH	X	Steve Cearley	KØIBM		
Current	Big Sandy Amateur Radio Club	Mike Gregory	KØMC		Doug Freeman	KEØGVY		
Current	Boulder Amateur Radio Club	George Packer	WBØCDI	X	Michael Derr	W3DIF		
	Boulder County ARES	Mark Huff	KØLRS		George Weber	KAØBSA		
Current	Castle Rock Repeater Group	Nick Meacher	AA0NM	X	Jason Quynn	KC4QYX		
Current	Cherry Creek Young Amateur Radio Club	Bob Sterner	KBØBS					
Current	Cheyenne Mountain Amateur Radio Club	Mike Wisch	WØLG	X	Roger Johnson	KGØI		
Current	Cheyenne Mountain Repeater Group	David Novotny	WA6IFI	X	Dan Scott	WØRO		
Current	Colorado Amateur Repeater Network	Mike Wisch	WØLG		Roger Johnson	KGØI		
Current	Colorado Connection Repeaters	Doug Sharp	K2AD	X	John Thomson	WØIG		
Current	Colorado Repeater Association	Matt Sturtz	KBØKZR	X	Dave Maciorowski	WA1JHK	X	
	Colorado State University ARC	James Cizek	KIØKN					
Current	Colorado Traffic League	Dave Johnston	W8XAL	X	Willem Schreuder	ACØKQ	X	
Current	Delbert E. Noakes KCØVJD	Delbert E. Noakes	KCØVJD					
Current	Denver Radio Club	Gerry Villhauer	WØGV	X	Orlen Wolf	WWØLF	X	
Current	Denver Radio League	Tom Dall	KD4TD	X	David Mayes	KC7MP		
	Donald Yowell KIØIS	Donald Yowell	KIØIS					
Current	Down River Control Group	Gary Hampton	AD0WU	X	Paul Hampton	W0PIH		
Current	Durango Amateur Radio Club	John Kastak	N9NLC		David Bygel	KDØWWT		
New	Eastern Colorado DX Assn	Don Zielinski	KØIPV		Bob Chapman	KØMVB		
Current	Estes Valley Amateur Radio Club	Larry Olson	W9INE	X	David O'Farrell	WBØIXV		
New	Fun Machine Linked Repeater System	Jeff Carrier	KØJSC		Mike Gurski	KØGUR		
Current	Garden of the Gods Amateur Radio Club	David L Givan	KØIRP	X	Donald Yowell	KIØIS		
Current	Grand Mesa Contesters of Colorado	Dan Norman	NØHF		Ken Anderson	WØETT		
	Grand Mesa Repeater Assoc.	Al Acker	WA4HND					
	Indian Peaks Radio Club	Matt Reynolds	KD0PYK		Dennis Whalen	KODWW		
Current	Longmont Amateur Radio Club	Ron Schwartz	K2RAS	X				
	Loveland Repeater Association	Dennis Dyer	WØXYZ		Strieby	WØFT		
	Mile High DX Association	Richard Williams	K8ZTT		Jonathan Woo			
Current	Montrose Amateur Radio Club	Chris Depuy	WBØITG	X	Larry Braden	W7LEV		
Current	Mountain Amateur Radio Club	Laird Johnson	KDØVNV		Bill Wallick	KCØFNV		
Current	Northern Colorado Amateur Radio Club	Wayne Hall	ADØKE		Joe Hawley	KDØTYU		
	Park County Radio Club, Inc	Connie Krajcirik	WØSNO		Dan Kern	WØDFU		

Spring 2020 CCARC Treasurer's Report – May 16, 2020

Beginning balance from Spring Meeting Report Dated October 12, 2019

\$7,083.83

INCOME

Date	From	For	Amount
10/12/2019	Denver Radio League	Dues	\$7.00
10/27/2019	Rocky Mountain Radio League	Dues	\$25.00
12/29/2019	Rocky Mountain Ham Radio	Dues	\$13.60
12/29/2019	Aurora Repeater Assn	Dues	\$10.60
12/29/2019	Cherry Creek Young ARC	Dues	\$5.00
01/06/2020	Gary Hampton for Down River CG	Dues	\$25.00
01/25/2020	Tracy Helmhold KI0HC	Dues	\$5.00
01/28/2020	285 Techconnect Radio Club	Dues	\$5.00
01/28/2020	Estes Valley ARC	Dues	\$7.40
01/28/2020	Pueblo ARC	Dues	\$25.00
01/28/2020	Big Sandy ARC	Dues	\$5.00
01/28/2020	Delbert E. Noakes KC0VJD	Dues	\$5.00
01/28/2020	Montrose ARC	Dues	\$12.00
01/28/2020	Michael Wisch for CO Amateur Rptr Net	Dues	\$5.00
01/28/2020	Michael Wisch for Cheyenne Mtn ARC	Dues	\$5.00
01/28/2020	Ski Country Amateur Radio Club	Dues	\$24.00
01/28/2020	Denver Radio Club	Dues	\$25.00
01/28/2020	Paul Deeth	Dues (2 yrs)	\$10.00
01/28/2020	Castle Rock Rptr Group	Dues	\$14.00
01/28/2020	Western Colorado Amateur Radio Club	Dues	\$8.00
01/28/2020	Cheyenne Mountain Rptr Group	Dues	\$25.00
01/28/2020	Colorado Connection Rptrs Inc	Dues	\$25.00
01/28/2020	Weld Amateur Radio Society	Dues	\$10.60
01/28/2020	Arapahoe County ARES	Dues	\$6.40
01/28/2020	Garden of the Gods ARC	Dues	\$5.00
01/28/2020	Longmont ARC	Dues	\$25.00
01/28/2020	Colorado Traffic League	Dues	\$5.00
03/02/2020	Dave Newmyer for San Luis Valley ARA	Dues	\$5.00
03/02/2020	Boulder ARC	Dues	\$25.00
03/02/2020	Colorado Repeater Assc	Dues	\$25.00

INCOME

Date	From	For	Amount
03/02/2020	Durango ARC	Dues	\$6.60
03/02/2020	Mountain Amateur Radio Club	Dues	\$10.00
03/02/2020	Northern Colorado ARC	Dues	\$25.00
03/02/2020	Pikes Peak Radio Amateur Assc	Dues	\$25.00
03/02/2020	Pueblo West Amateur Radio Club	Dues	\$7.60
03/02/2020	Royal Gorge ARC	Dues	\$5.00
03/17/2020	Donald Zielinski for Eastern CO DX Assn	Dues	\$5.00
03/27/2020	Grand Mesa Contesters	Dues	\$25.00
03/27/2020	Rocky Mountain Radio League	Dues	\$25.00
04/07/2020	Denver Radio League	Dues	\$5.00
05/04/2020	Radops of El Jebel	Dues	\$10.00
05/08/2020	Fun Machine Linked Repeater System	Dues	\$25.00
05/13/2020	Parker Radio Association	Dues	\$25.00
05/16/2020	Pikes Peak FM Association	Dues	\$10.00
Total Income			\$607.80

EXPENSES

Date	To	For	Amount
03/03/2020	Wayne Heinen	Treasurer's Expenses	\$56.91
03/11/2020	USPS	PO Box 24244	\$148.00
04/22/2020	John Maxwell	Web site Hosting (3 years)	\$50.00
Total Expenses			\$254.91

Ending Balance¹ **\$7,436.72**

¹ Less Allocated funds: Repeater Maps \$318.27 =

Available Balance **\$7,118.45**

Prepared by Wayne Heinen NØPOH Treasurer

Treasurer's Report addendum – Spring 2020

The Constitution of the Colorado Council of Amateur Radio Clubs current provisions on clubs or organizations membership reads as follows:

ARTICLE III – MEMBERS

Section 1. The Council shall be comprised of Amateur Radio Clubs or organizations based in the State of Colorado and shall be qualified for membership when the following requirements are met

- A. The Club or Organization must conduct regular meetings.
- B. The Club or Organization must have duly elected officers.
- C. The Club or Organization must be accepted by a majority vote of this Council.
- D. The Club or Organization must have a membership equal to or greater than its elected Officers

In accordance with the Colorado Council of Amateur Radio Clubs Constitution ARTICLE III – MEMBERS Section 1 Sub section C. The San Luis Valley Amateur Radio Association has submitted a signed application certifying with the submission of their dues that they meet all the requirements for club membership in CCARC. I would like to make a motion that the Colorado Council of Amateur Radio Clubs accepts for membership the San Luis Valley Amateur Radio Association.

In accordance with the Colorado Council of Amateur Radio Clubs Constitution ARTICLE III – MEMBERS Section 1 Sub section C. Eastern Colorado DX Assn has submitted a signed application certifying with the submission of their dues that they meet all the requirements for club membership in CCARC. I would like to make a motion that the Colorado Council of Amateur Radio Clubs accepts for membership the Eastern Colorado DX Assn.

In accordance with the Colorado Council of Amateur Radio Clubs Constitution ARTICLE III – MEMBERS Section 1 Sub section C. Fun Machine Linked Repeater System has submitted a signed application certifying with the submission of their dues that they meet all the requirements for club membership in CCARC. I would like to make a motion that the Colorado Council of Amateur Radio Clubs accepts for membership the Fun Machine Linked Repeater System.

In accordance with the Colorado Council of Amateur Radio Clubs Constitution ARTICLE III – MEMBERS Section 1 Sub section C. Radops of El Jebel has

submitted a signed application certifying with the submission of their dues that they meet all the requirements for club membership in CCARC. I would like to make a motion that the Colorado Council of Amateur Radio Clubs accepts for membership the Radops of El Jebel.

- Good Afternoon, I am Tracy Helmhold, K10HC the Colorado Frequency Coordinator.
- Since January this year we have processed 52 new coordinations and 20 re-coordinations.
- Currently we have one pending Notice of pending coordination (NOPC)

A lot has happened since our last meeting. Willem, AC0KQ, has spent hundreds of hours to consolidate the database and re-design the tool. It is currently online and there are no more paper forms. In order to use the system, we must have a good e-mail for you! You will get 1 or 2 e-mails per year from us. Please give us an e-mail that you will check regularly. If you are using a SPAM filter, make sure to whitelist fcadmin@ccarc.net. Please take the time to review your information. The accuracy is only as good as the information that has been provided.

I would like to personally thank Willem for this effort.

This has been a group effort to get to this point.

I would also like to thank Doug, K2AD for spending time teaching us more of how the coordination works.

Wayne, N0POH, for salvaging the old database and maintaining it. Wayne's data was the starting point for the current database and lastly,

John, W0VG, who spent many days processing the backlog of coordination requests and the flood of new requests. John did the beta testing and was working with Willem to improve the tool. John also made YouTube videos on how to work with the new online tool.

We strive to get the new coordinations completed as quickly as possible. In the last several months, some have been completed within a couple days.

The backlog is caught up! We would like your help in providing us with a good e-mail and please validate your Coordination info online.

CCARC Constitution – Proposed change to Article III, Members

Motion: “The Colorado Connection Repeaters Inc proposes the following change to the CCARC Constitution, Article III, Membership. If approved, the criteria will be applied to any new or renewing club effective January 1, 2021. “

Current wording as approved and published

Section 1. The Council shall be comprised of Amateur Radio Clubs or organizations based in the State of Colorado and shall be qualified for membership when the following requirements are met:

- A. The Club or Organization must conduct regular meetings.
- B. The Club or Organization must have duly elected officers.
- C. The Club or Organization must be accepted by a majority vote of this Council.
 - 1. The Executive Committee of CCARC shall have the authority to tentatively accept membership(s) until approved or disapproved by a vote taken at the next regularly scheduled meeting of the CCARC.
- D. The Club or Organization must have a membership equal to or greater than its elected Officers.

Proposed changes to be considered

Section 1. The Council shall be comprised of Amateur Radio Clubs or organizations based in the State of Colorado and shall be qualified for membership when the following requirements are met:

- A. The Club or Organization must have a document(s) of organization that are published in the public domain.
- B. The Club or Organization must have duly elected officers as defined in the document(s) of organization.
- C. The Club or Organization must conduct regular meetings and record minutes. Minutes may be paper or electronic recording methods that are distributed at future meetings, by e-mail, by newsletter, by web site or verbally on a regularly scheduled club net.
- D. The Club or Organization must have at least four persons holding a valid amateur radio license, and must submit a roster of said members to the CCARC for private Executive Committee examination upon request.
- E. The Club or Organization must be accepted by a majority vote of this Council.
 - 1. The Executive Committee of CCARC shall have the authority to tentatively accept membership(s) until approved or disapproved by a vote taken at the next regularly scheduled meeting of the CCARC.

Submitted: April 21, 2020 by Douglas Sharp, K2AD – Delegate from the Colorado Connection Repeaters Inc.



Colorado Section Manager CCARC Report Spring 2020 (Virtual) Meeting

ARRL Membership in Colorado:

- A. - ARRL members in Colorado = 3,678
- B. - ARRL members in Rocky Mountain Division = 7,425
- C. - ARRL members in USA = 157,626
- D. - Licensed Amateurs in Colorado = 18,575

Colorado	Technician-10,016	General-4,198	Advanced-810	Extra-3,551	Total=18,575
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As of April 2020, ARRL membership in the Colorado Section has increased by 2.1% to the preceding year ending March 2019. Colorado ARRL's 3,678 members out of the 7,425 current members in the entire Rocky Mountain Division (CO, UT, WY, and NM) make up over 50% of the Rocky Mountain Division's total ARRL membership. There are 157,626 ARRL members in the USA as of April 2020. The Colorado section ARRL membership is approximately 2.3% of the total ARRL membership in the USA.

According to the FCC ULS database; as of April 2020, there are a total of 18,575 ACTIVE ham licensees in Colorado. Of these, 3,551 are Extra Class; 810 are Advanced Class; 4,198 are General Class, and 10,016 are Technician Class. So, doing the math once again, approximately 20% of all the hams in Colorado are currently ARRL members.

Upcoming Hamfests and Conventions:

- 6/27/2020 - 6/28/2020 - ARRL Field Day
- 8/7-9/2020 - HamCon Colorado – Rocky Mountain Division Convention, Parker, CO

ARRL Field Day:

For most of us, ARRL Field Day 2020 is going to look quite different than it did in past years. Considering the impact of social distancing due to the pandemic, many Colorado radio clubs and large groups will not gather in their usual Field Day locations this year. Whether you are a seasoned veteran or a Field Day first-timer, there are many questions about how to participate in amateur radio's largest annual on-air event under these unusual circumstances.

ARRL Field Day 2020 may be the year you decide to participate solo, or with other members of your household. You may want to focus on expanding your knowledge base and experiment with new modes or bands that you never thought of using before. If you're a mentor to a newer ham, Field Day can be an opportunity to share

some of your knowledge, and for *you* to expand your own operating horizons. This might be the year to leave your Field Day comfort zone and try something new!

Current ARRL Affiliated Clubs:

The number of current ARRL Affiliated clubs in Colorado as of this meeting = 42 which is an increase of 3 club affiliations or renewals since the Fall 2019 CCARC meeting

1. 285 Techconnect Radio Club
2. Arapahoe County ARES
3. Arkansas Valley ARC
4. Arvada Radio Group
5. Aurora Repeater Association
6. BARC Jr.
7. Big Sandy ARC
8. Boulder ARC
9. Castle Rock Repeater Group
10. Cherry Creek Young ARC
11. Colorado QRP Club
12. Colorado Traffic League
13. Denver Radio Club
14. Denver Radio League
15. Disaster Emerg Response Assn SAR
16. Edge Of Space Sciences
17. Estes Valley Amateur Radio Club
18. Fort Collins CW
19. Grand Mesa Contesters of Colorado
20. HamCon Colorado
21. Indian Peaks Radio Club
22. Longmont ARC
23. MARAC
24. Mile High DX Assn
25. Montrose ARC
26. Mountain ARC
27. Northern Colorado ARC
28. Park County Radio Club
29. Parker Radio Assn
30. Pikes Peak FM Assn
31. Pikes Peak Radio Amateur Assn
32. Pueblo Ham Club
33. Pueblo West ARC
34. Radops of El Jebel Shrine
35. Rocky Mountain Ham Radio

36. Royal Gorge ARC
37. Ski Country ARC
38. Tri-Lakes Monument Radio Assn
39. Viasat Amateur Radio Alliance - Denver
40. Weld Amateur Radio Society
41. Western Colorado ARC
42. Wyoming/Colorado ARC

Volunteer Monitor Program:

4/10/20: After kicking off on January 1, the new Volunteer Monitor Program has ramped up to operational status. A “soft rollout” of the program began on February 1, designed to familiarize Volunteer Monitors (VMs) with issues on the bands and to put into practice what to report — and what to ignore, based on their training. The VMs not only will be looking for operating discrepancies, but for examples of good operating. The VM program has, at least for the moment, put Riley Hollingsworth, K4ZDH, back in the center of amateur radio enforcement as the Volunteer Monitor Coordinator (VMC). He was brought aboard to get the program up and running and ARRL will eventually take over the VMC function.

Hollingsworth is using a system called *VMTRAC* — developed by a VM — to measure the work of VMs and determine instances that qualify for good operator or discrepancy notices, referral to the FCC, or follow-up with FCC requests to the VM program.

Hollingsworth reported that during March, the 165 active VMs logged upward of 2,300 hours of monitoring on HF, and nearly 2,000 hours on VHF-UHF and other frequencies.

NOTE: We do not have any Volunteer Monitors in the Colorado Section

ARES Responses in Corona virus Environment:

Our SEC and REC are keeping informed of CDC and state health updates, and we suggest that our ECs continue to run drills to be ready for any emergency situation including for our wildfire season this summer. We emphasized the importance of being properly trained, equipped, and organized prior to any activation, and particularly not to self-deploy to any situation. Since normal communications infrastructure is working fine, we currently do not see a need for our service. Our current role is providing accurate information and comfort/social contact via radio to the ham community.

ARES leadership officials *must* consider *safety first* above all other considerations for ARES personnel and their families, period. Check with your SEC, REC and local EC for direction and consult with your health departments before considering any other actions. Check also the Centers for Disease Control and Prevention website for personal health interventions.

Resignation:

I will be leaving my position as ARRL Colorado Section Manager effective two weeks from now on June 1, 2020. My reason is that we will be relocating to New Hampshire in July. It is not without much thought and discussion that we have made this decision to move at this stage of our life.

I have appreciated both being part of the ARRL Field Organization and specifically the ARRL Colorado Section with the many opportunities that have been provided to me during the last ten years. It has been a pleasure to work within the supportive, stimulating atmosphere of our organization, and I will truly miss the friends that I have made here. In my honest opinion and from my own experience, the amateur radio community and ARRL organization here in Colorado is far and away the preeminent in the USA.

I believe that during my tenure in this position over the past several years that I have left the Colorado Section with some positive and progressive field organizational leadership and a strong amateur radio club base.

Respectfully Submitted,

A handwritten signature in black ink that reads "Jack Ciaccia, WMØG". The signature is written in a cursive style with a large initial 'J'.

Jack Ciaccia, WMØG
ARRL Colorado Section Manager

With the new Summit House comes some reconfiguration of the repeaters. The antennas of the users on the peak will be mounted on the side of the building, mostly facing to the south, but a fairly wide angle of coverage. Due to the building blocking signal to the north, the antennas as planned will have poor coverage to the north and north east. There will be a small site to the north of the parking lot that can support additional antennas to fill in the patten to the north.

We're looking at some options for antennas and repeaters and frequencies. I'd like to know what we can expect regarding coordination for some of these options:

1. Move our 145.265 and 448.800 repeaters to the peak to fill in for the poor coverage. Either have 146.97 and 448.45 facing south, with the other pair facing north, or put the 145.265/448.800 to the south and have 146.97/448.450 face to the north. We have a couple of options regarding if we put two repeaters at the satellite site and two in the main building, or if we have four repeaters in the main building with long RF cable runs.
2. Split the current VHF and UHF repeaters, and have either 146.97 face to the south and 448.450 face to the north, or vice versa, having 146.97 facing to the north, and 448.450 facing south.
3. If possible, through repeaters and antennas combining, have two sets of antennas from the same repeater, one set being directional to the north, and one set being directional to the south. This keeps the frequencies as is.

Regardless of the choice, we realize that if we choose to use one pair to the north and another pair to the south, or somehow otherwise break up the coverage, we also risk losing coordination on a frequency in one of the directions. Depending on coordination actions, that is.

If the CCARC can point out any frequency coordination issues with moving the 145.265/448.800 to the peak, please let me know.

Thanks!

Rob Roller

N7LV

Pikes Peak FM Association Presentation to CCARC May 16, 2020

Don, WA9WWS

PPFMA Summit House Project Team Lead

Change is coming to Pikes Peak

- ➔ • Quick review of before the change started
- Overview of New Pikes Peak Visitor Center Project
- Impact to PPFMA 146.97 & 448.45 Repeater Coverage
- Proposal

AN AERIAL VIEW OF PIKES PEAK



From
Repeater-
Builder.Com;

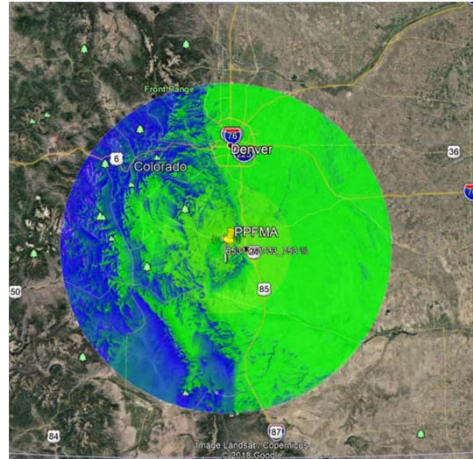
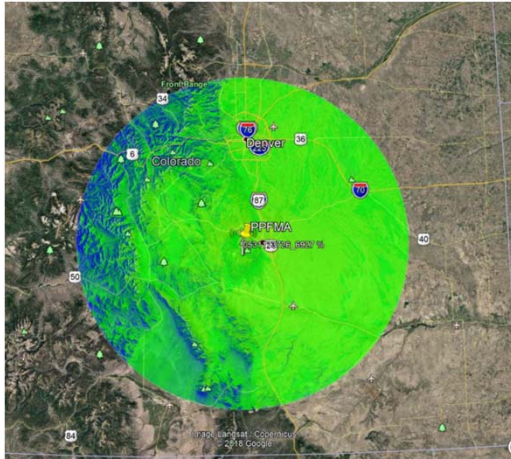
Was this the
highest
repeater ??

IN 2004



Current Coverage of 146.97 & 448.450

- both are range limited to 100 miles



Change is coming to Pikes Peak

- Quick review of before the change started
- ➔ • Overview of New Pikes Peak Visitor Center Project
- Impact to PPFMA 146.97 & 448.45 Repeaters
- Proposal

Artist Concept Drawing



Recent status



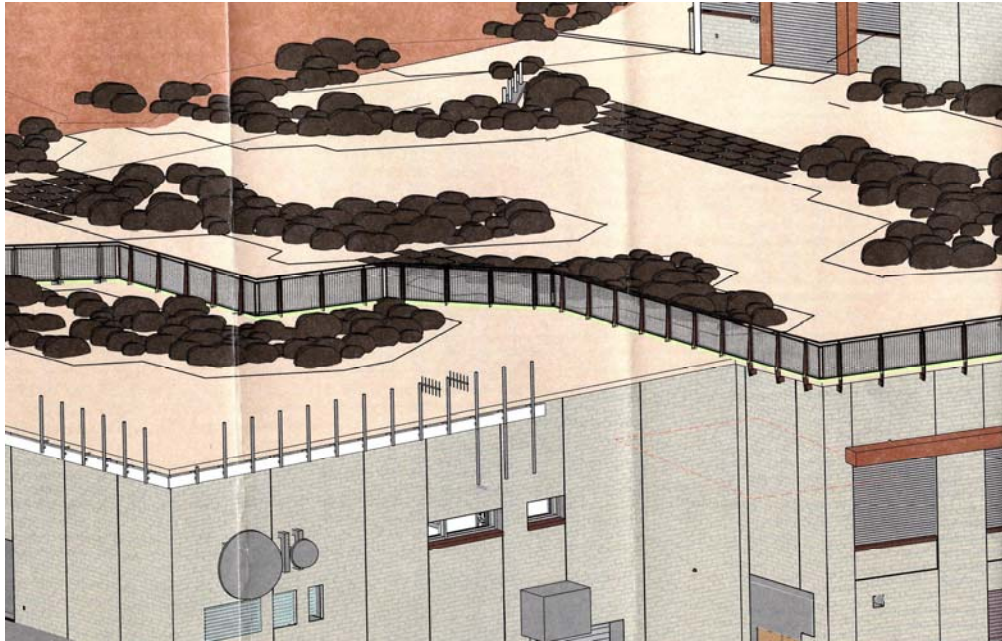
Future Look after work is done



Pikes Peak SE Camera – March 3rd 0700



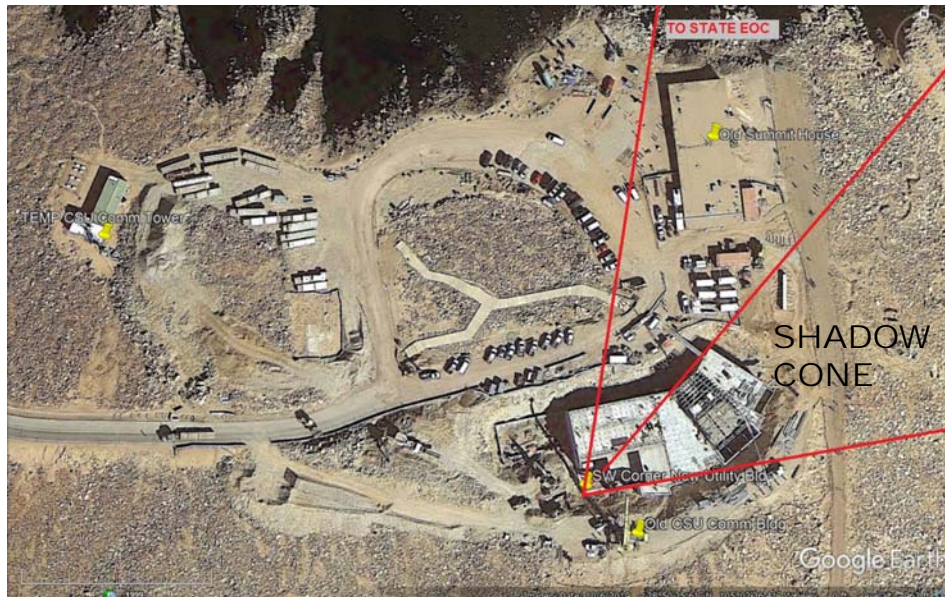
Antenna
'Farm'
at SW
Corner
New
Visitor
Center



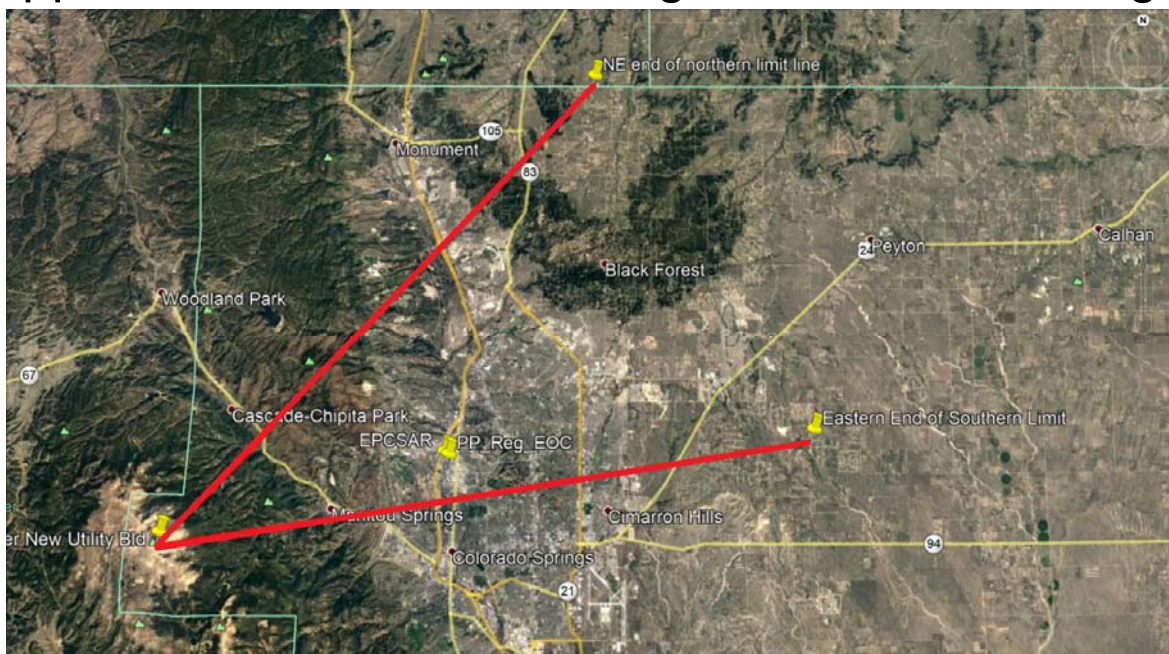
Change is coming to Pikes Peak

- Quick review of before the change started
- Overview of New Pikes Peak Visitor Center Project
- ➡ • Impact to PPFMA 146.97 & 448.45 Repeaters
- Proposal

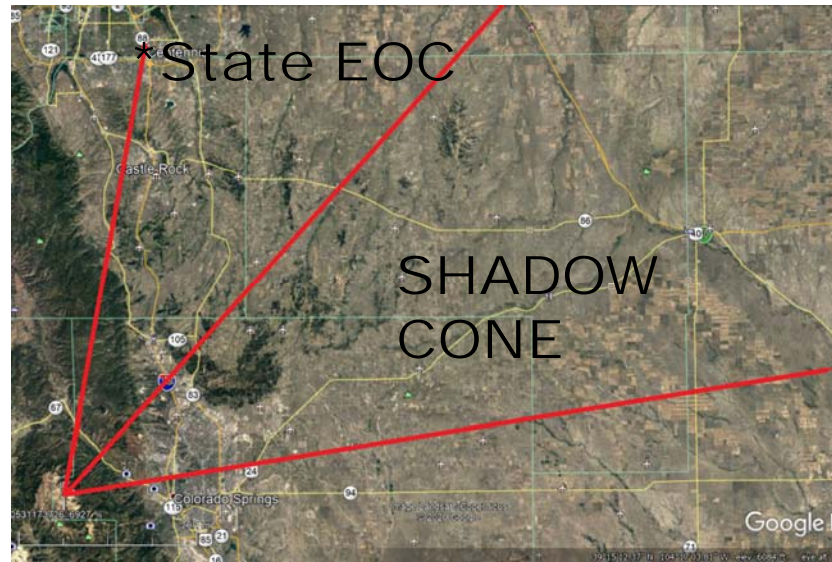
RF Shadowing by new Visitor Center



Approximate Loss in Coverage due to Shadowing



Approximate
Coverage
Loss due to
Shadow of
Summit
House &
Peak to
State EOC

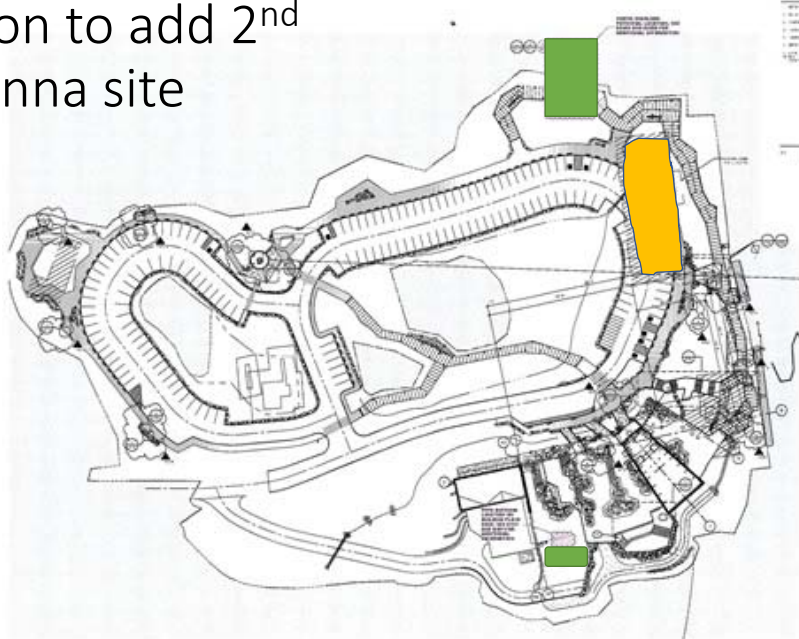


Change is coming to Pikes Peak

- Quick review of before the change started
- Overview of New Pikes Peak Visitor Center Project
- Impact to PPFMA 146.97 & 448.45 Repeaters

➔ • Proposal

Option to add 2nd Antenna site



Freq coordination change requests (6)

- At New Visitor Center aka South Site; Request to move back to peak
 - 145.265
 - 448.8
 - 1287.975
- At North Overlook aka North Site; Request to relocate on peak
 - 146.97
 - 224.06
 - 448.450

In Summary: Yes, change is coming to Pikes Peak

- Quick review of before the change started
- Overview of New Pikes Peak Visitor Center Project
- Impact to PPFMA 146.97 & 448.45 Repeaters
- Proposal

Discussion and Questions

- Asking for preliminary approval soon with final approval by end of June. Implementation in Spring 2021.
 - Delays WILL impact IMD studies and USFS Use Permit Request
- What is the next step for PPFMA?