

Rainbow Canyons Amateur Radio Club

May 2017



Club Officers:

President:

KG7PBX
Linda Shokrian

Vice-President:

KR7KR
Ken Richter

Treasurer:

AL7BX
George Gallis

Secretary &

Editor:

K6QOG
Bill Stenger

Local Repeaters:

146.980 Mhz
Tone 100 hz

146.940 Mhz
Tone 100 hz

146.760 Mhz
Tone 123 hz

Remote Bases:

449.500 Mhz
Tone 100 hz

449.925 Mhz
Tone 100 hz

448.800 Mhz
Tone 100 hz

IRLP/Echolink

449.900 Mhz
Tone 100 hz

RCARC Websites:

<http://www.rcarc.info> and <http://rainbowcanyons.com>

RCARC NETS:

Breakfast Net: 7:00am 146.760 Mhz 123 hz PL tone, Mon. - Sat.

Friendship Net: 9:00pm 146.760 Mhz 100 hz PL tone, every evening.

Club Monthly Breakfast is June 3rd 9am at the Pastry Pub

Come in and place your order then come to the side room to be with other hams and your order will be brought to you. It is a most relaxing and friendly environment.

Club meets on the second Tuesday of each month at the Senior Center

Next club meeting is June 13th

TOPIC:

Demo Wireless Wide Area Network (WAN) for ham radio

by George Gallis AL7BX and Bryan Lamoreaux KG7OOW

Utilizing 3, 2.4 and 5ghz wireless equipment, we can extend services to remote locations, all connected together, independent of the internet, at speeds up to 1,500 mbps (typical home internet is 20mbps). Services such as email, websites, file hosting, phone services, remote rig control, remote bases are all available over a fully redundant wireless network. This network is self healing, can be solar powered, and offers redundant connections to the internet if connected at multiple locations. With equipment starting at only \$50, it is a cheap, effective, reliable, and fast way to connect hams and ham equipment together.

Updates by Linda Shokrian KG7PBX

2017 Participation Award

To encourage participation and remind us how much fun Ham Radio can be, RCARC is offering a Participation Award for 2017 of a Yaesu 857d All Band Radio to be drawn for at the December 2017 meeting. Tickets will be given for participating in various activities all year long in 2017. For ways to earn tickets, please read the meeting handout for more information.

2017 Technician Class Scheduled

RCARC will be putting on a Technician Class this fall starting Thursday, October 5th at the Senior Center from 6 - 9 pm. It will run for 5 Thursdays (10/5, 12, 19, 26 and 11/2) with the test being held 6 pm Thursday Nov 9th at the Senior Center. Pass the word and let's have the best class ever.

Emergency Communications Group

EComm meets every other month in Even months. No meeting was held in May. Next EComm meeting will be on June 15th, 2017 at 6 pm at the Visitor's Center.

CERT

A CERT meeting was held Thursday May 18th at 7 pm at the Visitor's Center. Triageing different areas' priorities during a disaster was discussed. Next CERT meeting will be held Thursday, June 15th at 7 pm at the Visitor's Center. Terry Meissner will be discussing CERT communications (FRS, GMRS)

LEPC

There was no LEPC (Local Emergency Planning Committee) meeting held in May. The next LEPC meeting is scheduled for Wednesday, June 21st, 2017 at 12 noon at the Heritage Center. If you wish a copy of the monthly LEPC minutes, please contact Linda KG7PBX at Lgshokrian@gmail.com and she will send you one as they are available.

BOY SCOUTS EXPO

The annual Boy Scouts EXPO was held Saturday, May 20th from 8:30 am - 2 pm at the Cedar High School Soccer Field. RCARC had a booth at the event. The following Hams attended and earned a participation ticket - George Gallis AL7BX, Ken Richter KR7KR, Dick Parker K7ZI, Lance Jackson KA7J, Brad Gunderson KD6SFS, Tim Nesmith KI7LVC, Tammy Nesmith KI7LVB, Dennis Gaede KI7DRD. Special Thanks (and a ticket) to Tony Bennet KA7H-GX for talking over the air to all the boy scouts who stopped by and helping introduce them to Ham Radio. The smiles on their faces was quite exciting to see.

ARRL NEWSLETTER

Maritime Mobile Service Net Relays Distress Call; Crew, Passengers, and Vessel Safe

The Maritime Mobile Service Network (MMSN) recently served as a critical communication link after the sport fishing vessel Free Spirit put out a "mayday" distress call on VHF marine channel 16 after running into trouble in Mexican waters. Brian Stipak, KF7QCX -- skipper of the sailing vessel Ubiquity -- heard the May 13 mayday, which advised that the Free Spirit was sinking quickly with four people on board and that all were abandoning ship. Unable

to raise coastal stations on his vessel's VHF radio, Stipak went to the MMSN's 14.300 MHz frequency. Despite marginal band conditions, he was able to relay a position report to net control station Ken Porter, AC0ML, who had assistance from fellow NCS Scott Roberts, KK4ECR. For more information see ARRL May 18th Newsletter.

Telecommunications Ministry in India Orders Halt to Online Transceiver Sales

The Mumbai Mirror in India reports that a complaint by radio amateurs has prompted the Telecommunications Ministry to order online purveyors, including eBay and Amazon, to stop selling wireless transmitting equipment. According to the newspaper, a group of hams wrote the Wireless Advisor in the Telecommunications Ministry last fall to warn that online sales of wireless equipment could pose a national security threat. Their warning followed reports of "highly suspicious" 2-meter transmissions along the Bengal-Bangladesh border. For more information see ARRL May 18th Newsletter.

SB QST ARL ARLB013

ARLB013 Important Notice - New MF and LF Bands are Not Yet Available to Use!

The new 630-meter and 2200-meter bands are not yet available for Amateur Radio use. The effective date of the recent FCC Report and Order (R&O) granting these allocations has not yet been determined, and until the start date has been set, it is not legal under an Amateur Radio license to transmit on either band.

Amateur Radio Volunteers Support 2017 Boston Marathon

On April 17, nearly 280 Amateur Radio communication volunteers participated in the 2017 Boston Marathon, the 121st running of the event organized by the Boston Athletic Association (BAA). Warmer-than-typical temperatures for the Patriots' Day race raised concern for increased medical issues, but lower humidity and some cloud cover later in the afternoon mitigated the potential for problems.

Amateur Radio operators assisted in the State Emergency Operations Center (EOC).

Amateur Radio's primary communication role involved logistics. Operations included relaying Medical resupply requests, picking up runners via

medical sweep buses, conveying medical statistics as required by the Red Cross and Massachusetts Department of Public Health, and providing situational awareness as needed along the entire 26-mile route. Amateur Radio also backed up EMS communications, and the team relayed several ambulance requests along the route. Brett Smith, AB1RL, one of the BAA Organizational Committee representatives, said Marathon organizers were very pleased with the efforts of Amateur Radio operators.

What happened at the last meeting May 9th

President Linda Shokrian KG7PBX called the meeting to order at 7:00 p.m. And extended a welcome and asked for a self-introduction and what have you done on the radio.

Those Present Were:

KG7PBX Linda Shokrian	KA7SEZ Alan Chidester
KC7UNM Jerry Hebert	KI7LUK James Ansell
KI7LVD Dan Pointer	KB7UMU Sylvia Clements
KI7LVB Tammy Nesmith	KG7HZZ Kevin Raines
KR7KR Ken Richter	KI7DRE Larry Coles
KI7LVC Tim Nesmith	KI7LUI Tom Adams
K6QOG Bill Stenger	KG7NYJ Devin Elliott
K7ZI Dick Parker	KB7QXB Shirleen Chaffee
AL7BX George Gallis	KE7ZIM John Ellison
KF7WIY Denice Sheffield	N7BO Russ Chaffee
KG7YIB Carolyn Bauer	KD6SFS Brad Gunderson
KF7GPZ Fred Sheffield	KI7LUX Tim Lewis
KG7YIC Ken Bauer	KI7LUU Collette Gunderson
KA7SWA Kevin Truman	KI7LUY Jim Lunt
KG6LFU Jim Beal	KA7J Lance Jackson
KG7YIA Boyd Woolse	KI7LUI Tom Adams
N7SND Larry Bell	K7VXV Brody Johnson
KD7TTT Terry Lee	KC7RKY Leo Harrison
WA7HHE Brad Biedermann	N7TCE Merlin Mackay
KB7HHB Mardi Biedermann	KI7DYH Dallan Goff
KI7DRO Dennis Gaede	KI7DRB Bruce McDonald
KI7LUM Bruce Bishop	KI7LUL Lowell Burkner
KC7RKY Leo Harrison	N7KM Ken Munford
WA7GTU Don Blanchard	KI7DFS Billy Villareal
KI7LUX Dan Carlson	KI7ZLT Bill Cormaci???

Guests Were: Teresa Elliott and Darian Roundy????

Secretary Bill Stenger K6QOG called for any corrections to the newsletter. None given. Don Blanchard WA7GTU motioned to accept the minutes seconded by Denice Sheffield KF7WIY. Vote was unanimous.

Treasurer George Gallis AL7BX stated the balance in the checking account is \$1851.99. Sylvia Clements KB7UMU motioned to accept the report, seconded by

Brody Johnson K7VXV. Vote was unanimous.

Don Blanchard WA7GTU gave an update on the repeaters status. Frisco Peak 94 not making it to Salt Lake and Iron Mountain is an on and off. Snow must melt before anything can be done.

Merlin Mackay N7TCE demonstrated his new DF equipment that covers 108 Mhz to 174 Mhz. Very accurate and useful for finding interference for most emergency agencies.

President Linda Shokrian KG7PBX encouraged those who haven't joined the radio club and also the VHF Society that maintains and supports the intertie system. Remember joining the club and VHF Society you get a ticket for each for the FT 857 drawing in December.

Don Blanchard WA7GTU mentioned the will be a listing of all club members. There is a list going around that if you want your info on the list please check for any wrong info and if you don't want your info, mark accordingly.

Also there are donated pieces of ham radio equipment in the back of the room. The items will be up for bid. Check it out.

There was a discussion on operating the remote base.

Terry Lee KD7TTT mentioned that he has added a Swap Meet Section to the Club Website (www.rcarc.info) for club members. You can buy or sell and submit pictures of items selling.

Brody Johnson K7VXV gave an update on Field Day at 3 Peaks. There will be meals which will be potluck and a BBQ. Camping is available.

Linda Shokrian KG7PBX gave out Award Ribbons for the Friendship Net Checkin contest.
1st Place: KB7UMU, KD6SFS, KG6LUF, KG7YIA
2nd Place: KD7TTT, KR7KR
3rd Place: KA7J

Discussion on the need for insurance through ARRL.

UPCOMING Events:

Emergency Preparedness Meet & Greet
Boy Scout Expo
Field Day June 24-25

Fox Hunt July 29 (3 Peaks)
Fire Road Race August 19th
Technician Class in October
2M Simplex Contest
Build an unusual Antenna
Handouts available on the table.

1. Special Event
2. JOTA - Scouts
3. QSO - Party (Q7P)
4. Contest Calendar (WA7BNM Contest Page)
5. County Hunting
6. SOTA (Summits)
7. IOTA (Islands)
8. Prefix - Unique
9. Field Day
10. Sprint (Short time)
11. Work DX
12. Collect QSL cards
13. Build Kits

Presentation

by Dick Parker K7ZI

Dick began with his logo "Work The Magic". HF is the Magic. Things you can do on HF:

Following the presentation Dick entertained questions and answers.

Larry Bell N7SND motioned to adjourn the meeting seconded by Merlin Mackay N7SND. Vote Unanimous. Meeting adjourned at 8:40 pm.

Map to 3 Peaks



US Amateur Radio Bands

US AMATEUR POWER LIMITS

FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

On March 28, 2017, the Federal Communications Commission adopted rules that will allow Amateur Radio access to 472-479 kHz (630 meters) and to 135.7-137.8 kHz (2,200 meters). However, amateurs cannot use these frequencies until 30 days after the Report and Order is published in the Federal Register and the final procedures for registering stations with the Utilities Telecommunications (UTC) have been approved and announced. At the time this chart was created, the Report and Order had not been published and the UTC online registration site is not yet available. Follow ARRL news for further information. New charts will be published at www.arrl.org/geographical-frequency-allocations when the bands are fully available for use.

2,200 Meters (135 kHz)

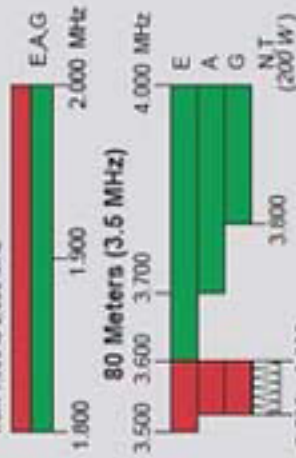


630 Meters (472 kHz)

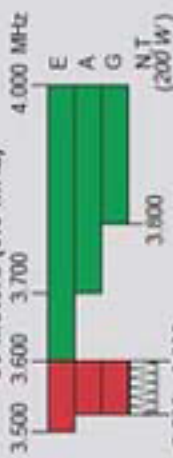


160 Meters (1.8 MHz)

Avoid interference to radiolocation operations from 1,900 to 2,000 MHz



80 Meters (3.5 MHz)



60 Meters (5.3 MHz)



General, Advanced, and Amateur Extra licensees may operate on these five channels on a secondary basis with a maximum effective radiated power (ERP) of 100 W PEP relative to a half-wave dipole. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as PACTOR III. Only one signal at a time is permitted on any channel.

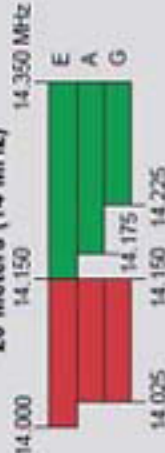
40 Meters (7 MHz)



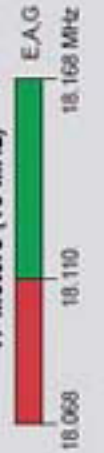
30 Meters (10.1 MHz)



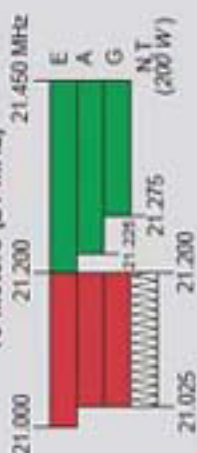
20 Meters (14 MHz)



17 Meters (18 MHz)



15 Meters (21 MHz)



12 Meters (24 MHz)



10 Meters (28 MHz)



6 Meters (50 MHz)



2 Meters (144 MHz)



1.25 Meters (222 MHz)



* Geographical and power restrictions may apply to all bands above 430 MHz. See The ARRL Operating Manual for information about your area.

70 cm (420 MHz)*



33 cm (902 MHz)*



23 cm (1240 MHz)*



All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	10.0-10.5 GHz †	122.25-123.0 GHz
2390-2450 MHz	24.0-24.25 GHz	134-141 GHz
3300-3500 MHz	47.0-47.2 GHz	241-250 GHz
5650-5925 MHz	76.0-81.0 GHz	All above 275 GHz

† No pulse emissions



Effective Date for
2,200 and 630 Meters
to be announced

The national association for
ARRL AMATEUR RADIO

KEY

Note:
CW operation is permitted throughout all amateur bands.

MCW is authorized above 50.1 MHz, except for 144.0-144.1 and 219-220 MHz. Test transmissions are authorized above 51 MHz, except for 219-220 MHz

- █ = RTTY and data
- █ = phone and image
- █ = CW only
- █ = SSB phone
- █ = USB phone, CW, RTTY, and data
- █ = Fixed digital message forwarding systems only

- E = Amateur Extra
- A = Advanced
- G = General
- T = Technician
- N = Novice

See ARRLWeb at www.arrl.org for detailed band plans.

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email: nsa@arrl.org

Classes: 605-594-0300 email: vec@arrl.org

RCARC - ECOMM Calendar June 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3 9 am Breakfast @ Pastry Pub
4	5	6 ***ORCA Net	7	8	9	10
11 **7 pm EComm NBEMS Practice	12	13 5:30 pm VE Testing 7 pm RCARC monthly meeting @ Senior Center	14 12n LEPC @ Heritage Center (Bring your lunch) *7:30 pm Field Day Meeting @ Linda's house	15 6 pm EComm meeting @ Visitor's Center 7 pm CERT meeting @ Visitor's Center	16	17
18 HAPPY FATHER'S DAY	19	20 ***ORCA Net	21	22	23	24 FIELD DAY
25 FIELD DAY	26	27 ***ORCA Net	28	29	30	

* Linda's address 2438 W Carmel Canyon Dr. (Just South of the new temple) call for directions 435-867-5914

** NBEMS Practice Digital/FLDigi on 146.98 MHZ - Everyone invited to join in

*** ORCA Net - 8:30 pm 3.581 MHZ 1500 Waterfall MFSK32 - talk frequency 449.925