

ADAW

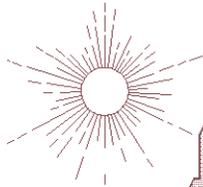
4529 W. Park Place
Glendale, AZ 85306-1512



Field Day 2018



June 23 - 24



ADAW

Arizona Desert Aire Waves

Vol 43, No 6

June 2018

CLUB MEETING SCHEDULE

QCWA

June/July
TBD

Prescott Area
11:00 AM

WVARC

Jun 4th
Shephard of the Desert
Luthern Church
7:00 PM

SuperstitionARC

Jun 19th
Charles K Luster Bldg
7:00 PM

ARA
Jun 28th
Denny's Restaurant - Tempe
7:30 PM

MARCA

Jun 19th
Denny's Restaurant - Tempe
6:30 PM

MARA
Jun 2nd
Maricopa PD Community Rm
9:00 AM

ANSR

Jun 21st
via GoToMeeting
7:30 PM

YARC
Jun 7th
Prescott Rodeo Grounds
7:00 PM

OVARC

Jun 15th
Ascension Luthern Church
7:30 PM

TCARA
Jun 18th
Goodyear City Hall
7:00 PM

CLUB MEETING SCHEDULE

SARC

Jun 6th
Scottsdale Senior Center
7:00 PM

AARC

Jun 14th
Red Cross Bldg. - Phx
7:00 PM

OPRC

Jun 13th
Marshall Conference Ctr
at Tucson Medical Ctr
7:15 PM

TBARC

Jun 21st
North Phoenix Campus
Northern Arizona University
7:00 PM

MCCARC

Jun 4, 11, 18, 25
Mesa Community College Tech Bldg
7:00 PM

CADXA

Jun 7th
PERA Club
6:00 PM

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURSDAY** of each month at 7:00 p.m. at the American Red Cross Building at 4747 N 22nd St. in Phoenix. Visit web site at www.W7IO.org for map. Visitors are welcome.

President	Gary Hamman	K7GH	602.996.8148
Vice President	Mark Kesauer	N7KKQ	602.843.0960
Secretary	Reinhard Geissler	K7RGG	
Treasurer	Bob Hodges	K7JJT	602.375.9982
Activities Mgr	Lori Cripps	WA7EDI	602.955.7517
Membership	Bob Hodges	K7JJT	602.375.9982

AARC c/o Bob Hodges, K7JJT, 15214 N 7th Place, Phoenix, AZ 85022. DUES: \$15.00/YR, Prorated (\$18.00 Family, \$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.

SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNESDAY** of each month at 7:00 p.m. in Room 8 at the new Scottsdale Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site). The club also holds a net every Tuesday night at 7:00 p.m. on the 147.78/.18 repeater.

President	James Wasson	N7ELL	480.456.1154
Vice President	Ray Vasques	K4RMV	
Secretary	Paul Jorgenson	KE7HR	
Treasurer	Ed Nickerson	WU7S	480.949.5162
Past President	Paul Finell	W7EFQ	602.741.6563
Board Members	Bob Johnston	K7TR	
At-Large	David Yee	N7AJR	
	Bill Kouchis	N9EIV	602.723.0700
	T D Kennard	N7ISR	
	Ray Vasquez	K4RMV	(ARCA Rep)
	Bruce Harmsen	KA9EYX	
	Chris Tabor	K7TAB	
	Irv Hembeck	K0OTZ	

SARC, P. O. Box 10878, Scottsdale, AZ 85271-0878. Phone: 602.735.3988. DUES: \$20.00/YR, (\$10.00/Add'l Family Member). Web Site: www.scottsdalearc.org

ARIZONA NEAR SPACE RESEARCH

The Arizona Near Space Research group meets the **THIRD THURSDAY** of the month at 7:30 p.m. via GoToMeeting. Technical meetings are held the first Monday of the month at 7:30 p.m. on GoToMeeting. Please contact an officer about joining our meetings.

President	Stephen Thomas	KE7TLS	iamgadget1@yahoo.com
Vice President	Clayton Jacobs	KJ6QJS	
Secretary	Steve Miller	W6SDM	
Treasurer	Bill McLean	K7WWM	bmclean1@gmail.com

ANSR, PO Box 31003, Mesa, AZ 85275-1003. DUES: \$10.00/YR. Web Site: www.ansr.org

THUNDERBIRD AMATEUR RADIO CLUB

The Thunderbird Amateur Radio Club meets the **THIRD THURSDAY** of each month at 7:00 p.m. at North Phoenix Campus of Northern Arizona University located at 15451 N. 28th Avenue (near I-17 and West Greenway Road). The meeting is held in room 147. See the website (<http://w7tbc.org>) for a map and more details.

President	Brian McCarthy	AK7F	623.670.0410
Vice President	Chris Johnson	K6OZY	623.866.2777
Secretary	Gary Cline	AF7BJ	
Treasurer	Darren Johnson	AF7CO	
Board Members	Clair Wyant	KG7MAJ	
	Wayne Hale	W6IZK	
	Robert Fairfield	K7RQN	
	Andrew Cornwall	KF7CCC	
Past President	Gary Duffield	WK7B	602.843.7724

For further information about the ThunderBird Amateur Radio Club, visit our website at <http://w7tbc.org>, send an e-mail to: info@w7tbc.org or call 602.938.8219. The Thunderbird Amateur Radio Club is a 501(c)(3) non-profit organization. Mailing address: PO Box 32544, Phoenix, AZ 85064-2544.

OLD PUEBLO RADIO CLUB

The Old Pueblo Radio Club meets the **SECOND WEDNESDAY** of March, June, September and December at 7:15 p.m. in the Marshall Conference Center at Tucson Medical Center. Visitors are welcome.

President	Ron Kalish	N7SPW	520.207.3852
Vice President & Treasurer	George Devich	N9IUK	520.760.0125
Board of Directors:	Cliff Hauser	KD6XH	
	Jim Ulmer	KC7THU	
	Lin Donnelly	KF7CNR	
WebMaster	Ted Willis	AA7HX	520.790.3828
		(www.oprc.org)	
Trustees:	(all repeaters operating under the K7TRA call)		
Primary	Cliff Hauser	KD6XH	
		146.660, 146.820, 147.220-	
	Paul VanBeverhoudt	KA7LFX	224.06+
Secondary	Ted Willis	AA7HX	146.66-
	Ralph Turk	W7HSG	146.82-
	Paul VanBeverhoudt	KA7LFX	224.06+

Mailing address: OPRC, P.O. Box 42601, Tucson, AZ 85733-2601. DUES: Individual - \$20.00/YR, Family - \$30.00/YR.

AZ RED CROSS COMMUNICATIONS CLUB

The Arizona Red Cross Communications Club meets at the Red Cross Building located at 4747 N 22nd Street in Phoenix. The group meets at emergency drills and at the call of the officers.

President	Frank Engstrom	KB7IQ	480.209.7300
Vice President	Larry Buchanan	AA0LB	623.703.9161

Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016.



ADAW Member Clubs

BARRY M GOLDWATER, ARIZONA CHAPTER QUARTER CENTURY WIRELESS ASSOCIATION

The Barry M Goldwater Arizona Chapter of the QCWA includes amateurs from all over Arizona. Four luncheon meetings are planned each year. The meeting months and locations are announced by newsletter, but generally follow the following schedule:

Spring Meeting	March/April	Tucson Area
Summer Meeting	June/July	Prescott Area
Fall Meeting	October	Phoenix Area
Holiday Meeting	December	Carefree Area

The AZ Chapter meets on the air every Sunday morning at 0700 MST (0730 during December and January) on 3890 +/- QRM. During December and January, the net time is moved to 0730 MST.

President	John Marshall	WA7BSR	623.334.2583
Vice President			
Secretary			
Treasurer	Dave Hanson	W7BJ	w7bj@outlook.com
Webmaster	John Marshall	WA7BSR	623.334.2583

Web Site: <http://azqcwa.org> Email: azqcwa@gmail.com.
DUES: \$7.00/year and current national QCWA membership.

MINGUS MOUNTAIN REPEATER GROUP

Meetings are held twice a year, an annual board meeting in Phoenix and a picnic meeting in Chino Valley. Dates, times, and locations are announced in the newsletter.

President	Bob Sitterley	K7POF	928.636.2146
Vice President	Ray Tyrrell	N6MY	n6my73@gmail.com
Treasurer	Bob Sitterley	K7POF	928.636.2146
Secretary	Lori Cripps	WA7EDI	602.955.7517

Web Site: <http://www.k7mrg.org>. DUES: \$20.00 per year, due prior to July 1. MEMBERSHIP YEAR - July 1 - June 30.

MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **FIRST SATURDAY** of each month at 9:00 a.m. at Maricopa PD Community Room, 17985 N Greythorn Dr. in Maricopa.

President	Steve Miller	W6SDM	602.290.1603
Vice President	Chris Canevit	W7CGC	
Secretary	John Wiltberger	NO7IN	
Treasurer	Curt Steger	NA7CS	520.568.9471
Board Members:	Ronald Beasley	KG7MUV	520.568.4880
	Bob Howard	W8RH	520.709.6176
	David French	N7FAN	480.430.9426
	Dale Dallon	KB7DD	
	Greg Harding	KG7VNZ	
PIO:	Steve Miller	W6SDM	602.290.1603
Webmaster:	David French	N7FAN	480.430.9426

The Maricopa Amateur Radio Association is a 501(c)(3) non-profit organization. DUES: \$25.00/year individual, \$30.00/year family. Apply on-line at www.copahams.org. Mailing address: P O Box 951, Maricopa, AZ 85139

WEST VALLEY AMATEUR RADIO CLUB

The West Valley Amateur Radio Club is an Arizona 501(c)(3) non-profit corporation. Meetings are the **FIRST MONDAY** of each month at 7:00 PM at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City. Doors open at 6:00 PM, Meeting starts at 7:00 PM, VE Testing at 8:00 PM. The board meets the third Tuesday of the month at Lou's Trivoli Gardens, 12535 W Bell Rd, Surprise at 7:00 PM. The Emergency Preparedness Group meets the third Monday of the month at 7:00 PM at Boswell Hospital. Club nets are held on 147.300 (tone 162.2) at 9:00 AM daily and Monday - Thursday at 8:00 PM. The preparedness net is held the last Friday before the monthly Monday night meeting at 8 pm on the NY7S repeater 147.300 MHz, Tone 162.2 Hz. A weekly breakfast is held every Thursday at Lou's Trivoli Gardens, 12535 W Bell Rd., at 7:00 AM.

President	Gary Robin	K9HDU	
Vice President	Ralph Nagle	W9ADW	
Secretary	April Kramer	KI7GFJ	602.284.6312
Treasurer	Tom Connor	W7TLC	623.444.7956
Club Directors:	Bob Paul	KG7FIL	623.252.0149
	Nancy Collins	KG6QWW	623.398.5286
	Many Blanco	KI7QLD	
	David Putman	W7DCP	

WVARC, P O Box 1573, Sun City, AZ 85372-1573. DUES: \$15.00/YR for family residing at the same address. MEMBERSHIP YEAR - January - December. Web Site: <http://www.westvalleyarc.org>. Email: suncitywvarc@gmail.com

SUPERSTITION AMATEUR RADIO CLUB

The Superstition Amateur Radio Club meets at 7:00 p.m. on the **THIRD TUESDAY** of each month (except December) at the Charles K Luster Building, 640 N. Mesa Drive, Mesa (use the glass door on your left at the main entrance). Visitors are welcome. Board meetings are held at 6:30 p.m. on the second Tuesday of each month (except December) at Black Bear Diner, 1809 E. Baseline Road, Gilbert.

President	Steve Estes	KB7KWK	480.251.0551
Vice President	Andy Keels	KD4ABB	602.809.3561
Secretary	Brent Butler	W7FK	480.332.1141
Treasurer	Douglas Mitchell	W7ADD	480.540.4110
Board Members:	Dan DeVliieger	KC7MSU	480.335.4914
	Dan Karnes	W7TWR	602.502.5259
	Don Rollock	W2EUL	w2eul@yahoo.com
	Jeff Harris	K2DFE	602.617.6930
	Jeff Heinze	N7CCW	480.720.7908
	Jeff Marchesky	K7ZLX	602.628.0238
	Larry Fort	AB7C	480.861.7066

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277. Web Site: SuperstitionARC.org and SuperstitionSuperFest.org. The Superstition Amateur Radio Club is a 501(c)(3) non-profit organization. For club information, please send email to: Communications@SuperstitionARC.org.



ADAW Member Clubs

MARCA, Inc. / W7MOT

MARCA is an Arizona 501(c)(3) Non-Profit organization. The club call sign in W7MOT. Membership is open to all amateur radio enthusiasts. Meetings are held the **THIRD TUESDAY** of each month at 6:30 p.m. at Denny's Restaurant located at 825 S 48th Street in Tempe (SE corner of University & 48th Street). Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early for dinner and socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications.

President	Norm Johnson	AA7OO	480.278.2886
Vice President	Dave Hall	N7ZPY	
Treasurer	Don Aldridge	WA7RLL	
Board Member	David Yee	N7AJR	
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

MARCA, Inc., PO Box 28246, Tempe, Arizona 85285. Membership dues \$25 annually. See our website (<http://w7mot.org>) for more information about meeting schedules, membership, repeaters, library, and club activities.

ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 825 S 48th Street, in Tempe, near SR 143 and University Drive. Visitors are welcome. Come early for food and social time before the meeting starts. For further information about the ARA, including repeaters, site status, and the tech/board meeting, please visit our web site at www.w7ara.org.

President	Brian McCarthy, AK7F	ak7f@w7ara.net
Vice-President	Erv Heimbuck, K0OTZ	k0otz@w7ara.net
Treasurer	Cole Cunningham, AA7RD	aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net
Board Members:		
	Lance Halle, KW7LH	kw7lh@w7ara.net
	Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
	Doug Pelley, WB7TUJ	wb7tuj@w7ara.net
	Joe Godfrey, AE7JG	ae7jg@w7ara.net
	Dennis Campbell, AE7WU	ae7wu@w7ara.net
	Mike Montalvo, KF7MBK	kf7mbk@w7ara.net
	Marty Dusenberry, KE7DGP	ke7dgp@w7ara.net
	James Wasson, N7ELL	n7ell@w7ara.net

For Membership Information, contact (Joe Godfrey, AE7JG membership@w7ara.net) Arizona Repeater Association, Inc, P. O. Box 35758, Phoenix, Arizona 85069-5758. To join or renew, please visit <http://w7ara.org/mbr/Membership.aspx>. DUES: \$18.00/yr. (Jan. 1 through Dec. 31) with a one-time initiation fee of \$10.00. Life and family memberships are available.

YAVAPAI AMATEUR RADIO CLUB

The Yavapai Amateur Radio Club meets the **FIRST THURSDAY** of every month at the Freeman Building in the Prescott Rodeo Grounds located at 840 Rodeo Drive in Prescott (visit web site at www.w7yrc.org for directions and map). YARC is an ARRL Special Service Club dedicated to public service and emergency preparedness. The club serves the quad cities area of Prescott, Prescott Valley, Chino Valley/Paulden, and Dewey/Humboldt.

President	Kathy Laing, KJ6KMK	president@w7yrc.org
Vice-President	Joe Thomas, KG6IDN	vice_president@w7yrc.org
Secretary	Art Jackson, KA5DWI	secretary@w7yrc.org
Treasurer	Mike Reid, N7IEP	treasurer@w7yrc.org
Board Members	Frank Bender, K8FB	k8fb@w7yrc.org
	Don Bauer, WB7TPH	wb7tph@w7yrc.org
	Dave Hanson, W7BJ	w7bj@w7yrc.org
	John Laing, K7PRS	k7prs@w7yrc.org

Yavapai Amateur Radio Club, P O Box 11994, Prescott, AZ 86304-1994. DUES: \$20.00/yr. Visit the website at www.w7yrc.org

ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at Ascension Lutheran Church located at 1220 W Magee Road in Tucson. (June is normally Field Day. December is annual Christmas Party and date and location varies.) Visitors are welcome. Board Meetings are held at 9:00 a.m. at the Oro Valley PD Substation EOC on Tangerine Rd (next to WalMart) in Tucson. Check the web site at www.tucsonhamradio.org for dates.

President	Steve Wood, W1SR	president@tucsonhamradio.org
Vice-President	Fred Bresani, W2HZ	vicepresident@tucsonhamradio.org
Secretary	Carl Foster, KB7AZ	secretary@tucsonhamradio.org
Treasurer	Hanna Eckert, KG7TPD	treasurer@tucsonhamradio.org
Board Members	Ross Eckert, K4WBR	
	Scott Boone, K7ADX	
	Gary Pierce, WE7GP	
	George Cooley, NG7A	
	Marnee Dearman, KG7SIO	

DUES: \$25.00/year (Household members living at same address \$15.00 each additional). To join or for additional information, visit website at <http://www.tucsonhamradio.org/>.

MESA COMMUNITY COLLEGE AMATEUR RADIO CLUB

The Mesa Community College Amateur Radio Club meets **EVERY MONDAY** of the month at 7:00 p.m. at Mesa Community College located at 1833 W Southern Avenue in Mesa. The meetings are held in the Technology Center Building 50, Room TC414 on campus. Every other meeting focuses on beginner topics to assist members in testing for the Technician license. All are welcome to join and there are no membership dues or requirements other than only MCC students may vote and hold club officer positions. Visit us at <https://www.facebook.com/KM7CC>

President	Charlie Brown	NJ7V	nj7v@arrl.net
Vice President	Nick Bratcher		thetowerpeople@gmail.com
Senator	Victor Valderram		vicau50911@maricopa.edu
Secretary	Robert Swanson		robswanson30@yahoo.com

ADAW Member Clubs

CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning is a hands-on amateur radio station, W7ASC, located within the Arizona Science Center at 600 E. Washington, Phoenix. Board meetings are held the last month of each quarter at the AZ Science Center. Annual meeting for all volunteers is held the **THIRD SATURDAY** of January. Watch ADAW for details.

President	Jack Landon	KD7ROB	480.759.5195
Vice President	Jim Felkey	N7BBS	480.966.7084
Secretary	John O'Neal	K7IP	480.345.7800
Treasurer	Karen McConaghy	NO7D	602.799.7338

Board Members:

Jean W4CIH	ADAW, Publicity
Steve WB4ZSC	Tech/IT, CARL/ASC Interface
Fred K9TOS	Logbook/QLS
Tom K9TOS	At Large
Sam N7INV	Scheduling
Dave W7PMD	Hamfests
John K7JP	Teacher Packets
Bob KG7QJ	Classes, ASC Contact

Web Master, ARCA Rep - Roger Buel, W9NCQ - 602.493.7242
 For information: Email to carl@w7asc.org or call Jack, KD7ROB at 480.759.5195. Web Site: <http://www.w7asc.org>

CENTRAL ARIZONA DX ASSOCIATION

The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. (except for January Awards Banquet) at the PERA Club, located at 1 E Continental Drive in Tempe. Visitors always welcome. See www.cadxa.org/meetings.html for a map. The May meeting is an outdoor barbecue at 6:00 p.m. (reservations required).

President	Lee Finkel	KY7M	ars-ky7m@cox.net
Vice President	Fred Hoffert, III	NA2U	cwman1@aol.com
Secretary	Bill Poole	AA4Q	bill@poole.com
Treasurer	Alton Chaney	W7ACX	w7acx.480@gmail.com
Past President	Tom Kramer	NQ7R	tkramer@azci.net
Board Members	Larry Loen	WO7R	lwloen@gmail.com
At-Large	Reinhard Geissler	K7RGG	d11uf@compuserve.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: cadxa@cox.net. Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: www.cadxa.org.

TRICITY AMATEUR RADIO ASSOCIATION

The TriCity Amateur Radio Association meets the **THIRD MONDAY** of the month at 7:00 p.m. in the Goodyear City Hall Conference Room located at 190 N Litchfield Road in Goodyear. Parking is available on the west side of the building. (A social gathering is held at Village Inn at 2700 N Litchfield Road after the meeting.) Weekly Rag Chew every Wednesday at Village Inn (2700 N Litchfield Road) at 2:30 p.m. All hams are welcome. Weekly net is held Wednesday evenings at 7:30 p.m. on 446.400 MHz (PL 100 Hz). Events are posted on our Yahoo Group page at <https://groups.yahoo.com/neo/groups/TRICITYARA/info>

President	Bob Nobis	N7RJN	n7rjn@nobis.net
Vice President	Open		
Secretary	Carol Melton	AK7N	ak7n@azsnaps.com
Treasurer	Arnold Knack	KA7AOK	ka7aok@gmail.com

TriCity ARA, P O Box 6293, Goodyear, AZ 85338-6293. DUES: \$18.00/yr. for individuals, \$25.00 for family. Web Site: <http://n7tca.org>.



Please be sure your club has your current email and/or mailing address.

Happy Father's Day



June 17, 2018



The *Arizona Desert Aire Waves* is published monthly and is the official news media of the sponsoring clubs. All news items, articles and inquires should be submitted to each club's editor. Any information and opinions printed herein are those of the contributors and are not necessarily those of the sponsoring clubs. Full permission is granted to quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month**

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From The Editor's Desk

Arizona governor, Doug Ducey, has issued a commendation proclaiming June 2018 Amateur Radio Month in the state of Arizona and it will be a busy month. A copy of the proclamation is included in this month's ADAW.

The 2018 Prescott Hamfest/ARRL Arizona State Convention kicks off the month on the 1st and 2nd. The Yavapai Amateur Radio Club, in conjunction with the Eagle Amateur Radio Club at ERAU, is presenting this ARCA sponsored, two day event at Embry-Riddle Aeronautical University. See the Hamfest Calendar on page 11 for all the details. Check it out. It's a great way to beat the heat in the valley.

The Central Arizona DX Association will be conducting an on-air Special Event to commemorate the 20th anniversary of the passing of Senator Barry Goldwater using his callsign, K7UGA. The event will operate on all bands using all modes. So listen up and make contact with K7UGA to honor the late senator's memory. Memorial QSL cards will be available to stations making contact.

June 17 is Father's Day. Although not necessarily related to amateur radio, it is a day to celebrate dads everywhere. Happy Father's Day to all the dads out there!

The month wraps up with Field Day on June 23 & 24. All the clubs are putting the final touches on their plans for this annual 24-hour operating event. It's more than just a contest though. It's an exercise in preparedness testing an amateur's ability to get on the air and communicate in less than ideal conditions without the aid of conventional power. Many clubs set up in remote locations and operate using battery, solar, and/or other means of powering their equipment. Some clubs plan a whole weekend around their Field Day effort. It provides an opportunity for amateurs to get together and enjoy each others company while partaking in a hobby they love - not to mention some great food!

Field Day helps the amateur radio community hone their skills in communicating with each other. It's a great way for new amateurs to gain experience operating a variety of equipment and to get help and guidance from more seasoned amateurs. Check out what your club's Field Day plans are and consider participating.

Summer is just around the corner (officially begins on the June 21st) although the temperatures are already going up. If you are heading to the high country to escape the heat or participate in a Field Day exercise, be sure to check the forest service's web site for any restrictions.

Be safe, stay cool, and have a great June!

73,
Chris, N7PVL

**Summer Begins
June 21**



ADAW

Ham radio operators help save lives in Tinder Fire

Author: Jessica De Nova

Published: 6:14 PM PST April 30, 2018

Updated: 7:03 PM PST April 30, 2018



FLAGSTAFF, Ariz. – Amateur radios and their operators beat out modern technology last Sunday, possibly helping save lives in the Tinder Fire.

This form of communication is more than a century old.

Bill and Mary Lou Hagan are members of the Amateur Radio Emergency Service (ARES). The two and their emergency district coordinator, Joe Hobart, were at the Coconino County Emergency Operations Center (EOS) Sunday, when the communication troubles began because of poor cell service at the fire line.

“The cell phones started to become difficult and all of a sudden, the information started coming through here,” Bill Hagan said.

Hobart isn’t too fond of the name more commonly used for amateur radio—ham radio.

“I think it started out as a not-very-complimentary term, you’ve heard of ham actors?” Hobart said.

This is just a pastime for the Hagans, who have been married for 54 years.

“It’s a hobby to see how far away you can talk to people,” Bill Hagan said.

Sunday, these ARES volunteers were anything but fun and games.

On the other end was a team member on the fire line needing to get evacuation information out fast.

“There was no time to waste,” Mary Lou Hagan said.

For two hours, these hams relayed life-saving information, getting out a code red to those in the Blue Ridge community in the path of the flames.

“That’s what you’re here for. You’re here to help your neighbors and they’re our neighbors and the firemen you have to support them,” Mary Lou Hagan said.

“I think the commercial people made a bit of fun of us until they found out that we were sometimes kind of useful,” Hobart said.

Anyone needing the latest information on the Tinder Fire or evacuations is asked to call the EOC at 928-679-8393.



Original story - <https://www.12news.com/article/news/local/arizona/ham-radio-operators-help-save-lives-in-tinder-fire/75-547444849> - Reprinted with permission, May 16, 2018



The program for the May General Club Meeting was a presentation on Equipment Grounding by Erv Heimbeck, K0OTZ. This program really hit home because it showed the weakness in my own system of grounding. I haven't had any lighting strikes, knock on wood, since the tower was first erected 30 years ago. Erv recommends a minimum of two 8-foot copper coated ground rods at the base of the tower. I only have one. And there is more about ground wires and antenna selectors that I am going to change in my shack. I think the fact that we do not get a lot of thunder storms here in the valley may be why my system hasn't failed. This was a great program for all of us hams that just slap something together and hope for the best. Great Job, Erv.

There are a number of fun things for you to participate in during the month. It is not Spring, but it feels like it. Every other Friday morning there is a party in the Park. Rather, it is Ham in the Park. It is in the Pima Park starting around 8:00 a.m. Pima Park is located at Pima Road and E Indian School Road. For more information you can check the club web site. www.scottsdalearc.org

On Saturday mornings around 8:00, there is a Ham Breakfast at Denny's restaurant at the Pavilions, 9000 E Indian Bend Road. Of course, you buy your own breakfast, but you can chat with other Hams. They are a talkative bunch.

We are doing some work on our web site this month, so please stand by. I have been informed that the site will be more complete and user friendly. So be sure to try it out.

This is the month I wait for all year. It is Field Day! This year the board has secured the same location as last year on the rim. It is a beautiful spot in the pine trees with the much cooler temperatures. There will be restrooms available, but you need to bring your own food and water. Please check out the flyer on the new web site.

The Club has a Net every Tuesday at 7:00 PM on our repeater system. The repeaters are on 147.18 with a tone of 162.2 and on 440.00 with a tone of 100.00. Everyone checking in can give us a run-down on what they have been up to lately. Sometimes we have an interesting question for everyone. So set your clock for Tuesday's at 7:00 and we will see you on the air. By the way, you will get a free raffle ticket for every time you check into the net. Use them at the club meeting raffle.

Well, that's all I have for now. Be well and keep hamming.

Ed Nickerson WU7S
enickerson427@aol.com

Continued Next Column



MAY and JUNE 2018 – A BUSY TIME FOR AMATEUR RADIO

At the May 10th meeting of the Arizona Amateur Radio Club, using PowerPoint, Frank Engstrom, KB7IQ and Charles Zurenko, N2TFS, gave a very interesting report of their experience participating in the "Tinder Fire" Red Cross Deployment recently, using the Phoenix Communications Command Van for the first time.

After an active May, the Arizona Amateur Radio Club will have plenty to keep themselves busy during the month of June! The first and second of the month, members will be wending their way to Prescott for the Prescott Fest with its many seminars on Friday and Saturday. ARCA will have its meeting on Saturday, June 2, at 11:00 AM. We hope to see you there! The Arizona Amateur Radio club will hold its regular meeting on June 14, of course, and its 2-meter net every other Thursday at 7:00 PM.

Of prime importance in June is FIELD DAY! AARC will be going to Mingus Mountain, same place as last year, on June 22 to set up, and will participate in field day activities on June 23 and 24. Amateur radio tests will also be given on June 23 at the Red Cross by David Merrill, N7TWT, and his VE team.

Check out our website at www.w7io.org. There are lots of photos of our April hamfest and other club events under the Photo Gallery tab. Under the videos tab, you will find presentations on Echolink, Winlink, and Ham Mesh.

ADAW

SARC Continued from Previous Column

SARC CONSTANTS:

SARC is a 501 (c)(3) club. That means all donations are fully tax deductible. Contact Paul Jorgenson, KE7HR at 602.992.8043 for information on estate donations and equipment pick-up.

For membership information, call Judy Jensen, KE7IXI at 480.773.8452. Please send address change requests to Judy no later than the 7th of the month in which you would like the change to occur.





CARL Continued from Previous Column

What, exactly, goes on in the Shack? And, even further to this point, what should be the activity there? Here is an inside look at the workings of the Harkins Ham Shack at the Arizona Science Center.

Visitors to the Shack must be, first of all, visitors to the Arizona Science Center (ASC). When ASC has a particularly popular exhibit, visitor numbers, at the Shack, tend to increase. Until 28 May, the ASC has been featuring the Pompeii exhibit, a very popular attraction. Volunteers, who have been on duty at the Shack, have had very few idle periods. When the visitor count is augmented by student field trips, the activity level increases even further.

Keep in mind that the Shack has been in operation for more than two decades. Some visitors tell the volunteers that they first visited the Shack as a child, usually during a school field trip. These visitors are now adults. Some are now teachers, so they are able to tell their students about that first experience with Morse code. Some adults are now parents, bringing their own offspring into the Shack. Since some of the volunteers were on duty way back when those visiting adults came through as youngsters, which can be a very satisfying experience. Some of those now-adult visitors wish to stay and reminisce about those “early days,” try their hand at Morse code again. It is not unusual for one of those visitors to announce that they have gone on to become licensed Hams, stimulated by that first visit to the Shack. There is a Log book at the Shack into which visiting Hams are asked to sign in. Anyone visiting the Shack will find those entries to be of interest. The numbers are really impressive.

Volunteers always work to start a conversation with visitors. That experience usually starts with Morse code. Most visitors would walk right past the Shack if left to their own devices. The Volunteer must find some way to entice visitors to enter the Shack. There is a large monitor just outside the Shack entrance that is driven by a computer located within the Shack, and there are quite a number of selections that can be displayed, but none of those videos include an invitation to enter. Many people stop to watch the videos, as some are very entertaining, and though the monitor is right next to the Shack, very few of those watchers even glance at the Shack unless invited.

Each volunteer has a method of reaching out to those who would otherwise simply move past the Shack. As you might imagine, starting a conversation with a total stranger who, generally speaking, can become defensive. “What is that person in the purple shirt trying to sell me?” Quite probably the hardest part of volunteering at the Shack is to find a nonthreatening way to greet visitors who would not, on their own, even think about entering the Shack. Once contact is successful, most visitors become intrigued with what they then hear. Morse code? Still used? Not just for secrets? And you will actually show me how to do my name?

Following the Morse code session, the visitor is invited to

experience Ham radio on-air. The VHF-UHF rig is best for that experience as HF is less predictable and of poorer audio quality. In general, visitors will not wait for contact to be made, Most have the cell phone attitude. Instant contact. There are many Hams available on the repeaters who are happy to chat with a new voice. Some of the Hams, however, immediately ask the visitor if that visitor plan to obtain a Ham ticket. Since most visitors have just begun to understand what is being demonstrated, that question falls on deaf ears.

But back to Morse code. The visitor has just struggled through their name and has been given a small piece of paper that has their name, plus the code on the obverse. That visitor has also been provided a badge that announces their success, which badge they are urged to place on their shirt, in view of other visitors. If the volunteer has the time, they might have been shown that Morse can be sent by flashing light, and the volunteer might have time to explain the workings of the non-electric heliograph, an important tool in early Arizona territory communications. Then what? How would an interested person go further, actually practicing Morse at home? What does the volunteer tell that visitor?

Of course, once the idea of sending Morse via light beam, the volunteer can make the point that Morse can be sent with a flashlight that is equipped with a button. Or perhaps the visitor will grasp the idea that Morse can be sent with a mirror, after some practice. There is a great no-cost app entitled “MorseKey” that can be downloaded onto a smartphone or tablet. This app fills the screen with an image of a key that can be touched in order to practice Morse.

The volunteer must be sensitive to the visitor interest. Follow up with an appropriate flier from the assortment that lines the Shack. Hand out a copy of ADAW, when that seems appropriate. Invite the visitor to return for further Ham experience. Listen for questions, and try to provide simple answers.

It is no simple task to bring visitors into the Shack. It virtually never happens unless the volunteer takes the initiative to make contact, then follow with interesting conversation and demonstration.

Does all of that sound like a fun challenge? If it does, you are ready to Volunteer. Go to the W7ASC.org web site, find the application. Phone the number above if you have questions. Join the fun; become a part of the community service at W7ASC. Get free parking and access to the great exhibits at the Arizona Science Center. Keep in mind that you are not trapped in a fixed schedule. Sam, N7INV, who keeps the Shack schedule, will work to find times that are convenient for you.

See you at the Shack before long? Questions or comments are welcome at W4CIH 480-664-7353 jeanjol@hotmail.com

73 until next time, de Jean

ADAW

Continued Next Column



CERT, Ham Radio and the ARA

Joseph Bakas, KE7WHE

CERT, Community Emergency Response Team, is a FEMA program intended to educate the community on what to do in the event of an emergency where first responders are not immediately available. This is a free program taught to zillions of people through 20 hours of training. The program teaches the basics through classes in Preparedness, Fire safety and suppression, Disaster Medical Operations, Search and Rescue, CERT Organization, Psychology, Terrorism and a final Review and simulation drill. After completing the basic class, there are additional opportunities for follow-on training in a variety of skills. Some jurisdictions teach only the class while others have viable organizations that offer opportunities to serve in various functions upon completion of the training. One of these functions is Ham Radio.

Many hams, having completed the CERT training, continue on to join a local CERT team. The onboarding step often includes background checks for credentialing. Once credentialed, Hams have opportunities to be utilized in more sensitive operations, such as within an EOC.

As Federal, State, County and Local, funding has been reduced over the years, drills and exercises have become scarce. Seeking to keep and sharpen EmComm skills, many hams have engaged in supporting public service events. Groups, such as our local MCECG, coordinate the communications needs of large PS events with ham radio operators willing to serve and exercise their skills in the public interest.

For many years, hams have supported numerous public service events. One example is the Ragnar del Sol where 88 hams were utilized across the vast course. Four different CERT teams' hams joined the ranks. With an event so large and widespread it required wide area of communications capability. Enter the Arizona Repeater Association and their constellation of 36 repeaters in Arizona. Part of the ARA mission statement "To provide training and support for Public Service and Emergency activities by Amateur Radio Operators." The ARA dedicated the necessary repeaters to the event over the period of two days.

A more recent PS example is the 12Ks of Christmas event in Gilbert. The event was located in the Freestone Park area

The Annual MMRG membership picnic was held in Chino Valley, AZ at the home of Bob K7POF on May 12. There was lots of great potluck food brought by members and guests as well as the hamburgers, brats, and hot dogs furnished by MMRG. The weather was really good without too much wind (for Chino Valley). We had 85 attendees, which is 11 more than we have ever had before. We also had three new members: KB3RRL, David of Prescott, AZ; KI7TAD, Debbie of Dewey, AZ; and KI7YCE, Steve of Paulden, AZ. MMRG wishes to thank these new members for their support as well as all the others that have supported us over the last 44 years

73 Bob Sitterley K7POF

ADAW

ARA Continued from Previous Column

and required 23 hams to cover it. The ARA approved the use of a local repeater. Gilbert activated its EOC and deployed nine hams to support the event. The EOC activation provided a collocation for Net Control to be collocated with the Police Department. Approximately 1400 participants dispersed across the 12K, 6K, and 1.2K courses walking, running, and jogging the courses. The event was a success and everyone finished safely.

If you are seeking to exercise your public safety communications skills consider an opportunity with your local CERT team.

<https://www.w7ara.org/>

<http://www.mcecg.org/>

<https://www.ready.gov/community-emergency-response-team>

<https://training.fema.gov/>

Continued Next Column

Hamfest Calendar

1-2 June 2018 - **2018 Prescott Hamfest at ERAU** - hosted by the Eagle Amateur Radio Club at ERAU and the Yavapai Amateur Radio Club will be held at Embry Riddle Aeronautical University (ERAU), 3700 Willow Creek Road in Prescott. Hours are 7:00 AM to 4:00 PM on Friday and 7:00 AM to 3:00 PM on Saturday. Tailgating, Commercial Vendors, Youth Activities, Special Event Station, Prizes, Food Concessions, Seminars, DXCC Card Checking and more. Limited Free RV Dry Camping on Thursday and Friday nights (must pre-register). General Admission - \$5.00 good for both days. Full Time Student with Student ID and 12 years and under - Free. Tailgating - \$10.00 first parking space, \$5.00 each additional. Indoor Commercial - \$20.00 first table, \$10.00 each additional. Talk-In Frequency - 146.880 MHz(-) PL 100 Hz. For more information, visit the website at www.prescotthamfest.com or email Hamfest Chairperson - Frank Bender, K8FB at k8fb@w7yrc.org

28-29 July 2018 - **Hualapai ARC AutoShow/Hamfest** - hosted by the Hualapai Amateur Radio club will be held in the Cerbat Lanes Parking Lot, 3631 Stockton Hill Road in Kingman. Hours are 8:00 AM til ?? For information, contact Bill Beaman at 928.718.1139.

28 July 2018 - **White Mountain Hamfest** - hosted by the Kachina Amateur Radio Club will be held at 932 Woodland Road in Lakeside. Overnight camping may be available. VE testing, Demonstrations, Hourly and Grand Prizes, Tailgaters, and Coffee and Donuts. Further details to follow. Visit the web site at www.kachina-arc.org and click on "Hamfest" for up to date information.

29 September 2018 - **Tucson Fall Hamfest** - hosted by the Radio Society of Tucson will be held at the Target Store, 9615 E Old Spanish Trail in Tucson. Hours - 7:00 AM - 11:00 AM. Seller setup starts at 6:00 AM. \$10 per space. Free Admission and Parking. Free VE Testing - GOTA Station - QSL Card Checking - Prizes. Coffee, Tea, and Donuts will be available. For Information & Map, visit <http://www.k7rst.org>

27 October 2018 - **Copafest 2018** - hosted by the Maricopa Amateur Radio Association will be held at the UltraStar Multitainment Center, 16000 N Maricopa Road in Maricopa. Hours are 7:00 AM until 1:00 PM. Admission is \$5.00. Spaces are \$10.00 for two parking spaces. Setup begins at 5:00 AM. Balloon Launch, VE Testing, Card Checking, Vendor Exhibits, Seminars, Prizes and more. Many activities available in the Multitainment Center including laser tag, bowling, movies, games, dining and more. Dining and Hotel also available. For information, email fest@copafest.org or visit the website at www.copafest.org.

10 November 2018 - **HARKFEST** - hosted by the Hassayampa Amateur Radio Klub will be held at North Ranch Escapees RV Park, 30625 S Hwy 89 in Congress. Free Admission, Free Tailgate Sites (Pre-Registration Required - djgrooms@yahoo.com) Overnight Camping (Full Hook-Up or Dry) Available (pre-registration required for camping at www.escapees.com/parking/congress) Tailgating permitted at campsite. VE Testing Available upon Request - Prizes

10 November 2018 - **Oro Valley Hamfest** - hosted by the Oro Valley Amateur Radio Club will be held at Marana Middle School, 11285 W Grier Road in Marana. Gates open at 7:00 AM (5:00 AM for sellers) and closes at 1:00 PM. Admission: \$5 (Children under 12 free with a paid adult). Students with AZ School ID are free. Sellers: \$10 per space and includes seller. Prizes, VE Session, Seminars, QSL Card Checking, Breakfast & Lunch Available. Talk-In: 146.620(-), 444.100(+), and 147.32(-) all PL 156.7. For more information, please visit the web site at orovalleyarchamfest.com or send an email to hamfest@tucsonhamradio.org for more information

1 December 2018 - **Superstition SuperFest 2018** - hosted by the Supersition Amateur Radio Club will be held at Mesa Community College, 1833 W Southern Ave in Mesa. Hours are 8:00 AM - 4:00 PM. Admission is \$5.00/person (includes 1 door prize ticket) and children 12 and under free. Tailgate is \$10.00 for 2 spaces which includes 2 paid admissions tickets. VE Testing will be available. Registration is from 8:00 to 9:00 AM with testing beginning at 9:00 AM. ARRL Card Checking, Special Event Station, GOTA Station, Fox Hunt, Prizes, Live Music, Food Vendor, and Drinks will be available. Contact the Hamfest Chairman at chairman@superstitionsuperfest.org for more information.

12 January 2019 - **Thunderbird Hamfest** - hosted by the Thunderbird Amateur Radio Club will be held at the Northwest Community Church, 16615 N 43rd Avenue in Phoenix. Hours are 8:00 AM to 12:00 Noon. Open to Vendors at 7:00 AM. Vendors may set up Friday night after 5:00 PM. General Admission - \$3.00 per person. Vendor and Tailgate Swap - \$10.00 per parking spot. Seminars - Door Prizes. VE Testing from 10:00 to 11:30 AM. Snacks and Beverages will be available for purchase. Visit the TBARC web site at www.w7tbc.org or email hamfest@w7tbc.org for additional information.





CADXA Continued from Previous Column

The weather outside is heating up and so is the sporadic E propagation on 6 meters. Several CADXA members were working or trying to work Japan today (May 15th) on 6m FT8. It was our first JA opening of the season. Activity should continue through the month of June. If you are chasing grid squares on VHF, don't miss a chance to pick up some new ones in the ARRL June VHF contest on June 9-10.

On the HF bands, there has not been much DXpedition activity with the exception of VK9LI on Lord Howe Island. However, it won't be long before we have some major excitement with the big one scheduled for late June to Baker Island, KH1. I am looking forward to that one because I need it on the digital modes. Make sure your station is ready pile-up action when our own Ned Stearns, AA7A will be one of the DXpedition participants with major technical responsibilities.

Next Meeting is June 7th at the PERA Club at 7:00 p.m.

The June Meeting will be held at 7:00 p.m. on Thursday night, June 7th, at the PERA Club. We are hoping to have Dave Jorgensen, WD5COV, present his program "9M0W Spratly Island DXpedition," but do not have final confirmation as this newsletter goes to press. We do have a Plan B if Dave cannot join us for the June meeting.

Please feel free to arrive early to socialize with your friends. Refreshments will be served at the break. Guests are always welcome.

73,
Lee, KY7M
CADXA President

Our Annual Barbecue Meeting in May was a rousing success. We had a record crowd of 90 attendees, great BBQ food from Famous Dave's, and a program on radio astronomy that was "out of this world." Luckily, the weather cooperated with cool temps and minimal wind. While I know that some of Dr. Chris Groppi's technical details were difficult to follow, the basic concept of launching balloons in the dry Polar Vortex above Antarctica for research on star formation was very understandable. All of our members who pride themselves on building their own widgets when none are available commercially could relate to Dr. Groppi's delight in "rolling his own," including learning how to machine parts down to a 1 micron tolerance. And we learned there is a Terahertz radio spectrum that has "star power."

A big "thank you" goes out to our club secretary, Bill Poole, AA4Q, who arranged to have ASU Professor Groppi (his friend) come to present this unique program. It was also Bill's idea to get Famous Dave's to cater the BBQ meeting this year. Thanks also to my other Board members and the many helpers who stepped up to make the event run so smoothly.



ADAW



Continued Next Column



The big news for Thunderbird Amateur Radio Club is all about our repeaters. They're moving back up the hill-- or in this case, the White Tank Mountains. Coverage for the 70cm repeater will be back to where it was, and we expect that our 2m coverage will increase with altitude. Add the correct antennas back in and we'll be heard further than ever!

We've also upgraded the Fusion repeater to the next generation DX2. This is supposed to cure some of the deafness and power issues that plagued the original. Let's see how it behaves on the air.

Speaking of repeaters, the tech committee is looking for volunteers. If you've got an interest in how repeaters work, and a desire to head up the mountain, you may be a good candidate for the job. Getting up there is not straightforward -- you will want good driving ability and a vehicle that has some ground clearance . . . or a friend who has that. If you're interested, get in touch with Gary Duffield WK7B wk7b@cox.net for more information.

Gary Cline AF7BJ continues to search for cooler locations to operate from this summer. He's been stymied a couple of times by fire closures, and will be heading to sites near Happy Jack and Fool Hollow Lake for investigation. If you'd like to get out of the heat in August, think about setting aside a weekend (date still to be determined) for operating up north at a campground. Get the details from ghcline@cox.net.

Did you catch sight of TBARC on meetup.com? We started a trial membership there to see if there was any interest. You might see some new folks at the meeting - be sure to say hi!

Have you been to a TBARC meeting yet? Why not stop by? We'd love to have you join us, and guests are welcome. Our meetings are held on the third Thursday of the month at the North Phoenix Campus of Northern Arizona University. It's near Greenway and I-17, starting at around 7:00 p.m. See the club website at w7tbc.org for directions. In June, we'll start with Low Profile 2m Mobile Antenna by Dave Zinder W7PMD and then the main presentation will be TBARC Field Day Operations by Walt Reinert NJ8G and Chris Johnson K6OZY. Find out what Field Day is like, or share your past experiences with others. See you there!

Andrew Cornwall
KF7CCC
kf7ccc@arrl.net



Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
Barn Burner Mtn Bike Race		09/08/18
	Kendrick Peak N of Flagstaff	
Tour de Scottsdale	Scottsdale	10/07/18
Xterra Estrella Mtn Trail Run		10/07/18
	Estrella Mountain Park	
Javelina Jundred	Fountain Hills	10/27/18
Phoenix Half Marathon	Downtown Phoenix	11/04/18
Xterra San Tan Trail Run	San Tan Park	11/11/18
AuxComm Interest	TBD	11/30/18
Scottsdale Half Marathon	Scottsdale Civic Ctr	12/09/18
Xterra - White Tank	Waddell	01/06/19
Pancake Run	Paradise Valley Mall	02/03/19
Xterra McDowell Mtn	Fountain Hills	02/03/19
Black Canyon 100K		02/16/19
	Spring Valley to the Emery Henderson Trailhead	
Xterra Black Canyon Trail Run		03/10/19
	Black Canyon City	
March of Dimes for Babies		04/13/19
	Wessley-Bolin Park, Downtown Phoenix	

To sign up for an MCECG Public Service Event: www.mcecg.net

For information, contact Dennis Bietry - KE7EJF at 602.274.3732 - email, ke7ejf@cox.net, or contact the Event Coordinator for the event.



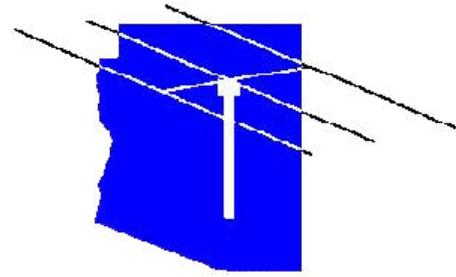
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MARCA INC.

No Report Received

April was a busy month for OVARC as we scrambled to get in some outdoor activities before the hot weather.

Early in the month we participated in the Wings of Freedom event at the Marana Airport. It's great to see everyone getting a close look at the collection of World War II aircraft and other memorabilia. Thanks to Roger-K7ROG we had a great spot under the tent. He also put in a special request to keep the winds down. About the middle of the month we operated from Colossal Cave to commemorate the signing of the Gadsden Purchase. We had a nice wooded area with plenty of shade. Mysteriously another large pizza made its way there to keep all of the operators in good spirits. Thanks to Tom, W8TK for putting these events together. Thanks to Chris and Paul for helping with the set-up and the pictures.

We had an excellent presentation at our April meeting by Bob KA7VPR. He's the southern Arizona expert on DMR and he did a great job of keeping an audience of 80 people tuned into the subject. During the break we raffled off a TYT DMR hand-held radio.

Our last raffle included a package of antennas, an antenna analyzer and other goodies. Our next raffle is an Alinco DX-SR8T transceiver.

As you read this, the 2018 Hamvention will be history. Several of our members made the trip and probably came back with some new toys. One of these years, we'll put our heads together and charter a full sized aircraft from Sky Harbor to take us nonstop in both directions. For the number of hams in Arizona that make the trip to Dayton, it would probably be worth it.

OVARC Field Day plans are well underway. Sign up sheets are available for the various operating positions as well as the potluck dinner on Saturday evening. Our strategy this year is "take back the plaque."

Thanks to Gary-KT7AZ, Jim-W5ZIT and Howard-KC7AC another antenna project was completed for a local ham who is now back on the air. Hams helping hams with their smarts and their hands – this is what our hobby is all about.

Drive safe over the Memorial Day weekend!

73, Steve

OVARC Continued from Previous Column



Continued Next Column



**American
Red Cross**

Arizona Red Cross Communications Club

4747 N 22nd St. - Suite 100 - Phoenix, AZ 85016
VHF – 146.84 MHz – PL 162.2 / UHF – 446.900 MHz – PL 131.8
Echolink Node #731289 – K7ARC-R

Some folks enjoy amateur radio sitting at a desk in an air-conditioned room, working DX or rag-chewing. There's nothing wrong with that, but there's a way to turn up the excitement.

As you know, Arizona Near Space Research is the Uber and Lyft of near space research. Arizona colleges and universities develop experiments that are then delivered into near space, on high altitude balloons. This process allows researchers access to space that would otherwise require more expensive means of delivery. Some of these experiments and projects would never take place if it wasn't for ANSR and other volunteer balloon groups around the country.

We work with the students, assist with the experiments packaging, and then secure it to the high altitude balloon as part of the total payload. Besides student payloads, our balloon flights also carry radio beacons which operate on amateur radio frequencies, a Mode C transponder to alert flight control and other aircraft of our presence, and cameras including live streaming video.

As the saying goes, what goes up must come down. But where? Some of our members specialize in using software to forecast weather accurately, and then predict a landing site before the launch of a balloon even takes place. Ground stations track the descent, and our chase team maneuvers their vehicles as closely as possible to the recovery site.

You could be part of any part of our flight operation because we are seeking new members. Are you interested in APRS and off-road vehicle adventure? Do you like seeing parts of Arizona that many people didn't know even existed? Do you like operating your radio with defined goals and objectives? Do you like volunteering your time for a worthwhile cause? If you answered yes to any one of these questions, you would enjoy being a part of ANSR.

We provide free on-the-job training. You don't need an off-road vehicle. Many of our recoveries are near paved roads. We also need navigators and spotters in the chase vehicles. There are many areas where help is needed, and you can choose one that fits your interest and comfort level.

Come out to one of our flights and experience what we do. The next one is on June 2nd at the Prescott Hamfest. You can see our flight schedule and also fill out a membership form online on our website at ANSR.org. We hope to hear from you.

Steve Miller

Some members of the ARCCC were deployed to the Tinder fire in Blue Ridge last week, including Charlie N2TFS, Frank KB7IQ, Larry AA0LB, and me, to name a few from the Chapter. Our setup location was at the Blue Ridge Community Church, just adjacent to the Blue Ridge Fire Dept. off Route 87. The church is still under construction, but was open to assist those in need.

We found the folks affected by the fire and those there to assist, to be friendly and helpful – especially the congregation of the Blue Ridge Community Church. Their help and support was greatly appreciated.

We discovered a few inadequacies in our radio communications efforts – something which we plan to address in the near future. Specifically, we found communications to our Red Cross Volunteers on assignments in burned out areas was difficult with the rugged terrain.

By the time you read this, we will be involved in or have finished up with a major Mass Care drill scheduled for the 3rd weekend of May.

Don't forget about the PSARG net on Tuesdays at noon and our new ARCCC net at 7:30 PM on our VHF repeater. Both are available on Echolink as well. You can check out the schedule on our website – www.k7arc.org.

Your Humble Scribe,
Mark, N7KKQ

ADAW

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If anyone is considering a major radio shack, workshop, addition or going into business for yourself, I am offering professional Electrical, Mechanical and Plumbing Engineering services to radio club members at a 20% discount for residential property, and 10% discount for commercial property. Talking is always free.

License Testing Information

When you are ready to take an exam for an Amateur Radio license, there are Volunteer Examiners available to assist you. Each Applicant will need to bring a picture ID (some test sessions require two forms of identification). If you are upgrading your class of license, be sure to bring the original (and a copy) of your license and/or Certificate of Successful Completion of Examination (C.S.C.E.). There may be a fee required.

PLEASE NOTE: Dates, times, locations, fees may change. Arrive promptly at time listed. Fees may vary and exact change or check is required at most sessions. Call test session contact to confirm information. Walk-ins are permitted unless otherwise specified.

June Test Sessions

Jun 2nd - Oro Valley ARC -- 10:30 AM
 Oro Valley Police Dept EOC, 1920 E Tangerine Rd, Oro Valley
 Contact - Quinton Gleason licensing@tucsonhamradio.org

Jun 2nd - DeVry ARC & WVARC -- 9:00 AM
 DeVry University Library, 2149 W Dunlap Ave, Phoenix
 Contact - David Morrill 623.680.5011

Jun 7th - CARBA -- 7:00 PM
 Lighthouse YMCA, 2900 N Columbus Blvd, Tucson
 Contact - Matthew Grossman 520.750.7189
 Pre-Reg by email preferred - veregistration@rstclub.org

Jun 11th - Radio Society of Tucson -- 7:00 PM
 Hardesty Mid-Town Police Bldg, 1100 S Alvernon, Tucson
 Contact - Diane Zimmerman 520.664.5070

Jun 16th - Un-sponsored -- 10:00 AM
 Kingman Fire Station #1, 2470 E Butler Ave, Kingman
 Contact - Daniel Miller 928.897.3883

Jun 16th - Hualapai ARC -- 10:00 AM
 Northern Arizona Fire District, 2470 E Butler Ave, Kingman
 Contact - Alyce Ingle 425.234.9173

Jun 18th - East Valley VE Team -- 6:00 PM
 City of Mesa Utilities, 640 N Mesa Dr, Mesa
 Contact - Fred Bolinger 480.242.8606

Jun 20th - Thunderbird ARC -- 6:00 PM
 Honor Health Medical Office Bldg, 19841 N 27th Ave, Phoenix
 Contact - James Skinnell 602.826.1949

Jun 23rd - Arizona ARC -- 7:00 PM
 American Red Cross, 4747 N 22nd St, Phoenix
 Contact - Gary Hamman 602.996.8148
 No Walk-Ins - Pre-Registration Required by Friday night



Old Pueblo Radio Club INTERMOD

President's Column

No Report Received

<i>OPRC Repeaters</i>			
146.66	- PL 110.9	wide coverage	W7GV
146.82	- PL 110.9	wide coverage	W7GV
<i>RACES Repeaters</i>			
145.150		packet/wide	N7OEM
146.880	- PL 110.9	wide coverage	N7OEM
147.300	- PL 110.9	wide	N7OEM
448.55	- PL 110.9	wide coverage	N7OEM



**Flag Day
June 14**

Real Estate

*Are you or someone you know looking for a Ham Home?
 I can help you find a home with a tower or one where a
 tower can be added. Call or email me to get started.*

Richard Haworth W7MDQ
 Coldwell Banker Residential Brokerage
 602-370-1450 Cell, rahaworth@cox.net



Superstition Continued from Previous Column

Tuesday, June 19 General Meeting 7:00 PM, Charles K Luster Building Mesa

HF Phone Contest Basics by James, N7ELL, will be the meeting presentation ahead of Field Day. James will have some good pointers just in time for ARRL Field Day! Doughnuts and coffee are available during the break.

Buy some tickets for tonight's \$1 and \$5 radio drawings.

Advance tickets for the SuperFest Grand Prize Drawing are available for \$2 each. See the next item below for drawing details.

Our meeting presentations are geared to the new ham. Visitors are always welcome.

Superstition SuperFest Prize Drawings

Your presence is not necessary to win at the Grand Prize drawing held on Saturday, December 1, 2018. These prizes are:

1. First Prize: Yaesu FT-991A: All-Band Transceiver.
2. Second Prize: ICOM IC-7300 HF/50MHz Transceiver
3. Third Prize: ICOM IC-7100 HF/VHF/UHF Transceiver

The Door Prize drawing will follow the Grand Prize drawing. You must be present to be eligible to win. Your paid admission to Superstition SuperFest will come with one ticket for the Door Prize Drawing.

1. Door Prize: Yaesu FT-70DR C4FM FDMA / FM 144/430 MHz Dual Band Handheld

Field Day is almost here - 4th weekend of June, 23-24

This year, from Saturday, June 23, 1800 UTC (11 AM MST in Arizona) for 24 straight hours, the noise on the bands called Field Day will be running at full blast. Our club sets up ahead of time and operates for this 24-hour period.

Our Field Day Plans were published in full in the May Communicator, available from the club's Communicator newsletter by Jeff, K2DFE. (Get the Communicator from our website.) Following is an excerpt from that full-page article:

The club is heading north to the Mogollon Rim area for our annual Field Day outing. The GPS coordinates are: 34.632104, -111.261096

Charlie (NJ7V) has arranged for this year's location. The site is known as Lost Eden. This is going to be our Field Day home for the foreseeable future. There is a cabin that we can use for group meals. There is well water and the location easily accommodates club participants and friends with motor homes, campers and tents. The 6750 foot elevation and much cooler temperatures make this location a great place to set up camp.

We are looking forward to another great turnout this year. So if you enjoy Ham Radio and camping, or just want to come up for a day in the forest, then come on up and join the party.

April Meeting Prize Drawing Winners!



April's \$5 drawing made JD, KF7VOX, the proud owner of this Kenwood TM-V71A, above, presented to him by Jeff, N7CCW. Congrats JD!

There were two \$1 drawings in April, and two winners of a Retevis HT. This jewel puts out a whopping 3 watts on 16 channels on UHF!



A triumphant Michael, KI7LGT holds the winning ticket for his new HT.



Matt, KI7EPD: This guy has won another HT!

Superstition Continued from Page 17

If you have never had the chance to work HF and would like to experience it, we welcome you to come up and work some contacts alongside our Extra Class control operators and run CW, SSB, Digital modes, and maybe some FM. We will be using special event callsign K7K and will have multiple stations set up.

President's Corner (by Steve, KB7KWK, President)

Welcome to May and boy it's warming up fast. Speaking of warm weather, the club will have Field Day up North at the Lost Eden property. We used this property a couple of years ago and it was a great place. It is private property so we have the place to ourselves. So if you want to get out of the heat for Field Day, come on up.

We have a lot of fun making contacts and just hanging out. Keeping with the club theme this year, this would be a great event for you new hams who want to try some HF work. All are welcome to come up.

Also, don't forget about the annual club gathering at the Organ Stop Pizza. This is an event where everyone just gets together to hang out together outside of the regular club meetings. We get to eat a lot of pizza and listen to some awesome organ music. I also honor certain people who have done great things for the club through the year. This will be July 21st from 11:00 a.m. to 2:00 p.m.

We have had good attendance at the club meetings and it is great seeing all the new faces. It seems our theme this year will be to gear all activities and meetings to the new hams. We plan to keep it up throughout the year. Our May meeting will be on HF antennas. If you have any ideas for a club program, please let our club Vice President and program director Andy, KD4ABB know about it.

I would like to thank everyone for coming out to the club picnic this year. We had around 44 people come out and we had some good food and great fellowship. Next year we will reserve the larger Ramada so we have plenty of seating for everyone.

We have changed the format of the Wednesday night nets. We are changing it from a club business net to just a club net. The goal is to try to get more people to check in. Some of the changes that were made are: We have gotten rid of the whole preamble and are jumping right into taking net check ins. The net control, John KD8PC, will still take mobile, short time, and Echolink as they check in first before going down the list. Another change that we are trying is, we are adding a topic to the net.

We hope to hear more people checking into this net. And I hope to see all of you at the next meeting!

73, Larry Kuck, WB7C, for Superstition ARC



CHAPTER 16

BARRY M. GOLDWATER ARIZONA CHAPTER

Have you been a ham for at least 25 years? Then celebrate by joining the Quarter Century Wireless Association!

The Barry M. Goldwater Chapter 16 Arizona chapter has four lunch meetings a year with fabulous speakers. Check us out at <http://www.azqcwa.org/> we are also on Facebook at <https://www.facebook.com/AZQCWA> We are always looking for speakers and great lunch locations. Let us know.

John Marshall, WA7BSR, President
QCWA Barry M. Goldwater Chapter 16 Arizona
wa7bsr@gmail.com



Superstition Continued from Previous Column

Superstition ARC Repeaters

- 147.120 MHz (+) 162.2 Hz - Usery *
- 448.275 MHz (-) 100.0 Hz - Usery - FUSION
- 449.600 MHz (-) 100.0 Hz - East Mesa *
- KB7KWK-L Echolink Node 538499 *
- * - Linked Full Time

Club Nets

- Morning Drive Time Net:** Mon-Fri, 7:00-8:00 AM - Trivia
- City of Mesa CERT Team Monthly Net:** First Tuesday of month, 7:00 PM
- Weekly 6 Meter Sideband Net:** Wednesdays, 7:00 PM on 50.140 MHz, W7ASL-L EchoLink, and 145.575 FM Simplex
- Club Net:** Wednesdays, 8:00 PM - Discussion, Elmer Q&A.
- Mesh Information Net:** Mondays and Thursdays, 7:00 PM - Net control Steve, KB7KWK

10-Meter Rag Chew: Thursdays, 8:00 PM, 28.465 MHz USB

Club Membership is open to anyone with an interest in Amateur Radio. Visit: <https://superstitionarc.org> for more information.

Superstition SuperFest

The Superstition SuperFest is held on the first Saturday of December. Visit www.superstitutionsuperfest.org for the latest information.

Continued Next Column

For Sale / Wanted



**LOOK!
Great Deals!**

For Sale -

Kenwood TS590s with Power Supply - \$800

Yaesu G450A controller and rotator - \$375

20-foot Rohn tower

Coax and many extras

Cushcraft A4S Tri-band beam - \$350

(20m, 15m, and 10m)

6 meter vertical antenna

Located in Glendale. You must take down tower. All equipment in excellent condition. Will sell entire package for \$1400 or prices listed above. Contact Terry Liesengang, W7TRL at liesegangt@yahoo.com

A-4 Antenna For Sale - \$450

This is an older model that does not have the stainless steel hose clamps on the elements. It is the same size and has the same features as the modern A-4S. The mast mount plate is new, and some of the elements have been replaced with stock A-4S parts. The antenna is stock - does 10, 15, & 20 meters. It does not have the 40 meter add on. It is boxed and ready to go now. Contact: Bob Howard, W8RH at 520.709.6176 voice/text or email w8rh@live.com.

The **West Valley Amateur Radio Club** has radios and ALL kinds of supplies available for sale through the club. We get some old equipment that won't sell that will be added to the items for free. Contact: Ken Jenkins, WB6MMV at kjenkins5623@gmail.com or Bob Kettler WA6MIO at rdkettler@msn.com.

ADAW



No Report Received

ADAW



No Report Received

ADAW



Emergency Communications Since 1961

SHORT SKIP

No Report Received



MARA has three repeaters in operation in the City of Maricopa and the surrounding areas. We have had several challenges over the years beginning with permission to use our primary site at Central Arizona College. After working out a lease agreement with the school, we had a variety of technical issues with both our System Fusion and GE Master II repeaters.

Several things gave us trouble, including mismatched jumper wires, transmission line loss, and adjustments in the cans, and setting of the controllers. With the help of the Arizona Repeater Association climbers and a generous financial donation from one of our club members, we were able to replace our lossy coax with hardline. Curt, NA7CS, spearheaded the effort to replace the cable last month and here is his account of the project.

On Saturday, April 21, 2018, members of the Maricopa Amateur radio Association met at our main repeater site to pull two, 260 foot runs of Comscope LDF4-50A Helix (½-inch hardline). The pull was horizontally through a six-inch conduit with a utility bunker as a midpoint. Helping me with the pull was Bob, KU4ZG, Bob Howard, W8RH, Bob Howard's brother George, Tim, NC6F and Jerry, K0FC.

The pull went off almost effortlessly, once we backed out some of the existing LMR400 that had been abandoned and twisted in the conduit. Once the two new runs of hardline were pulled and staged for termination, the LMR400 was pulled back through the conduit for spares. With this pull, the club now has five runs of feedline from the repeater room to the top of the 100ft monopole. Now what to do with all this bounty? Steve, W6SDM, has dreams of an APRS digipeater for one line, but we shall see.

On Wednesday, April 25, 2018, Bob, W8RH and I returned to our main repeater site to terminate the hardline we pulled on Saturday. Going full on old-school in adding Type-N connectors to the hardline without the use of an automatic stripping/preparation tool and testing each one before putting it in service. Granted this takes a little longer than using the tool, but it was something that needed to get done.

Our 440 repeater has 100% hardline from the duplexer to the antenna, and the 2M repeater has a 260ft run of hardline from the duplexer to the base of the tower. When things cool off this fall, hopefully, we can get the remaining 105 feet of LMR400

Continued Next Column

The 2018 Prescott Hamfest is Here!

Come one, come all. The Prescott Hamfest has something for everyone:

June 1-2, 2018

- * Tailgating both days in the mornings
- * 24 Seminars in the afternoons (indoors)
- * License Test Friday evening
- * Near Space Research Balloon Launch Saturday Morning
- * ARRL State Convention
- * ARCA Meetings
- * Embry Riddle "WOW" café
- * Commercial vendor booths
- * Hourly prize drawings
- * Multiple Grand Prizes
- * Only \$5 (covers both days)
- * 15 degrees cooler than the valley
- * www.prescotthamfest.com

The Prescott Hamfest is sponsored by the Eagle ARC at Embry Riddle and the Yavapai ARC.

The Yavapai Amateur Radio Club encourages community members and those of other local clubs to join us for our monthly meetings. We continually strive to make our programs interesting by addressing as many facets of amateur radio as possible.

Meetings are held the first Thursday of the month in the Freeman Building in the Prescott Rodeo Grounds, 840 Rodeo Drive, Prescott, AZ 86305. Meetings start at 7:00 PM.



MARA Continued from Previous Column

up the monopole changed to hardline for the 2M repeater. Since the pull and termination party, the club members have already realized a more robust system and improved communications.

Submitted by Curt Steger, NA7CS



GOVERNOR DOUGLAS A. DUCEY

STATE OF ARIZONA
★
COMMENDATION

WHEREAS, during the week of May 28th through June 3rd, the Central Arizona DX Association (CADXA) will be commemorating the 20th anniversary of the passing of Arizona Senator Barry Goldwater by hosting an on air special event using his callsign, K7UGA; and

WHEREAS, on June 1st and 2nd, The American Radio Relay League (ARRL), the National Amateur Radio organization in the United States, will hold its 2018 Arizona State Convention in Prescott, Arizona. Amateur Radio Operators from all over the southwestern U.S. will gather to congregate, share knowledge, assess the state's emergency response capabilities, and exchange equipment among themselves; and

WHEREAS, in the month of June, the Amateur Radio Council of Arizona (ARCA) will announce awards for Ham of the Year and Young Ham of the Year to individuals that have made notable contributions to Amateur Radio over the previous year. ARCA will also announce Scholarship awards to deserving Amateur Radio operators throughout the state of Arizona, to help them further their education; and

WHEREAS, during the 4th weekend in June, the nationwide ARRL Field Day emergency exercise is held, where many thousands of Amateur Radio operators throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skills, and emergency service capabilities to our communities and to our nation. ARRL Field Day combines public service, emergency preparedness, community outreach, and technical skills, all in a single coordinated event.

NOW, THEREFORE, I, Douglas A. Ducey, Governor of the State of Arizona, do hereby recognize June 2018 as Amateur Radio Month, benefitting the 47 ARRL affiliated clubs and over 22,000 FCC licensed Amateur Radio operators in the state of Arizona.



IN WITNESS WHEREOF, I have hereunto set my hand and caused to be affixed the Great Seal of the State of Arizona

Douglas A. Ducey
GOVERNOR

DONE at the Capitol in Phoenix on this fourteenth day of May in the year Two Thousand and Eighteen and of the Independence of the United States of America the Two Hundred and Forty-Second.

ATTEST: *Michelle Reagan*

SECRETARY OF STATE

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compare

TS-990S | 200W HF + 6M Transceiver

- World's first dual TFT display • 200W output on all bands • ±0.1ppm TCXO ensures both high stability and reduced power consumption • Triple 32-bit DSP's dedicated to main/sub receivers and band scope • Main receiver employs full down conversion, new mixer & narrow band roofing filters • Third order intercept point (IP3) +40dBm for highest level of RX performance (main receiver)

Call For Special Price!



\$40
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compare

TM-D710G | 2M/440 Dualband

- V-VV-U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions

Call For Special Price!



\$250
Eliminate
compare

TS-480SAT/HX | HF + 6M Transceiver

- 480HX 200W HF & 100W 6M (no tuner) • 480SAT 100W HF & 6M w/AT • Removable w/front panel/speaker • DSP built-in

Call Now For Low Price!



NEW

\$300
Eliminate
compare

TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function • Improved 1st mixer • New PFB key with multi-function knob • New split function enabling quick setting • LED backlight with selectable color tone



\$25
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compare

TM-V71A | 2M/440 Dualband

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch • "Five in One" programmable memory • 1000 multifunction memory

Call Now For Your Low Price!



\$40
Eliminate
compare

TH-D72A | 2M/440 HT w/extended RX

- SW TX, RX 118-524 MHz, VxU, VxV, UxU • APRS w/built-in 1200/9600 TNC • Built-in GPS, Built-in USB, digipeater • Echolink® compatible, • MI-Spec STD810

Call For Special Low Price!



\$200
Eliminate
compare

TS-2000

\$250
Eliminate
compare

TS-2000X

TS-2000/2000X | HF/VHF/UHF Transceiver

- 100W HF, 6M, 2M • 50W 70CM • TS-2000X 10W 1.2GHz
- Built-in TNC, DX packet cluster • IF Stage DSP • Backlit front key panel

Call For Special Price!

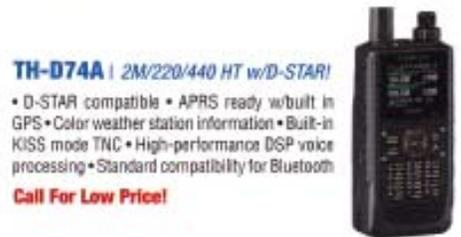


\$25
Eliminate
compare

TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • MI-Std specs • Hi-quality audio

Call For Special Low Price!



TH-D74A | 2M/220/440 HT w/D-STAR

- D-STAR compatible • APRS ready w/built in GPS • Color weather station information • Built-in KISS mode TNC • High-performance DSP voice processing • Standard compatibility for Bluetooth

Call For Low Price!



TH-K20A | 2M Handheld

- 2M 5.5W • V0X • CTCSS/DCS/1750 Burst built-in • Weather alert

Call For Special Low Price!



- RETAIL LOCATIONS – Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE – Toll-free phone hours 9:30AM - 5:30PM
- FAX – All store locations
- ONLINE – WWW.HAMRADIO.COM
- MAIL – All store locations

KENWOOD

Happy Spring from your HRO Phoenix crew!

Now serving you at our Phoenix store:

Manager Mike KB6VHF, Steve W7QY, Mike K7DD, Jim K7EOG, Jim KE7EEU, and Laura KB6UHF