

NCARC

TRIBANDER



FT 8900r

NORTHERN COLORADO AMATEUR RADIO CLUB

Club Officers

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Local Repeaters

Frequency	Tone	Call Sign	Operated By	Services
144.390 Simplex APRS Digepeaters / No Tone		WØUPS	NCARC	GEN. BACKUP
		WØQEY	CSU	?
		WØLRA	LRA	?
145.115-	100.0 HZ	WØUPS	NCARC	BATTERY / GEN. BACKUP AUTOPATCH
146.625-	100.0 Hz	WØUPS	NCARC	NONE
146.850-	100.0 Hz	WØUPS	NCARC	NONE
147.000+	100.0 Hz	KCØKWD	WARS	CONTINUOUSLY LINKED IRLP node 3839 ECHOLINK
147.195+	100.0 Hz	WØLRA	LRA	BATTERY BACKUP AUTOPATCH
147.270+	100.0 Hz	NØENO	LARC	AUTOPATCH
147.360+	100.0 Hz	WØQEY	CSU	NONE
224.520-	100.0 Hz	WØUPS	NCARC	GEN. BACKUP
224.840-	100.0 Hz	WØUPS	NCARC	GEN. BACKUP / LINKED 145.205
447.275-	100.0 Hz	WØUPS	NCARC	GEN. BACKUP AUTOPATCH
448.800-	88.5 Hz	WØENO	LARC	NONE
448.025-	100.0 Hz	WØUPS	NCARC	NONE
448.475-	100.0 Hz	KCØKWD	WARS	CONTINUOUSLY LINKED IRLP node 3839 ECHOLINK
449.575-	100.0 Hz	WØLRA	LRA	BATTERY BACKUP
449.725-	127.3 Hz	KØOJ	KØOJ	AUTOPATCH
449.850-	100.0 Hz	WØQEY	CSU	NONE
927.825-	100.0 Hz	ABØSF	ABØSF	NONE
927.875-	DPL 114	NØZUQ	NØZUQ	NONE
927.950-	100.0 Hz	K1TJ	K1TJ	GEN. BACKUP
1283.550-	100.0 Hz	K1TJ	K1TJ	NONE
Frequency	Tone	Call sign	Operated By	Services

NCARC MEETING

March 21, 2015

AT THE

GOLDEN CORRAL

1360 Sculptor Dr,

Loveland, CO

BREAKFAST – 0800

MEETING - 0900

Remember

NCARC FUN NIGHT

AT 1800

ISLAND GRILL
In Fort Collins

2601 S Lemay Ave #2

Southwest corner of Drake and Lemay in the
Scotch Pine shopping center



YAESU FT-8900R

29/50/144/430 MHz FM Transceiver

The FT-8900R is a ruggedly-built, high quality Quad Band FM transceiver providing 50 Watts of power output on the 29/50/144 MHz Amateur bands, and 35 Watts on the 430 MHz band. It includes leading-edge features like cross-band repeat, dual receive, VHF-UHF Full Duplex capability, and over 800 memory channels. And its 10-meter FM coverage brings the possibility of world-wide FM DX-ing to you on your drive in to work!

FEATURES

Convenient Remote-Head Mounting Capability

Having trouble mounting your mobile radio in your compact car? With the FT-8900R and its optional YSK-8900 Separation Kit, mounting is a breeze even in the tightest locations. The YSK-8900 includes a 20' (6 m) remote cable and a mounting bracket for the front panel, and the microphone jack is located on the side of the front panel, eliminating the need to run a separate cable.

Convenient Access to WIRES and other Internet-linking Systems

When six and ten meters are dead, you can still talk around the world with the FT-8900R! The front panel provides easy access to any WIRES™ (Wide-coverage Internet Repeater Enhancement System) repeater, automatically sending the required single DTMF access code at the beginning of each transmission. And if you're using another Internet linking system, one that requires a DTMF string to being up the link, you can easily configure the FT-8900R to store and send the required tone sequence, as well!

Quad Band Operation

The FT-8900R combines the "traditional" 144/430 MHz local-communications concept with the exciting capability for Sporadic-E or F2 DX on the 29 MHz and 50 MHz bands, for nationwide or worldwide FM communications from your car! The first Amateur Radio FM mobile transceiver providing this capability, the FT-8900R will make you wonder how you got by with a two-band transceiver up to now!

Wide Frequency Coverage

The FT-8900R provides extended receiver coverage beyond the Amateur bands, so you can keep informed of communication activities in the public safety, commercial, aircraft, and government communications ranges. Included is coverage of 28-29.7 MHz, 50-54 MHz, 108-180 MHz, 300-480 MHz, and 700-985 MHz (cellular frequencies are blocked and non-restorable).

High Power Output

To get your message through when it counts, the FT-8900R puts out a full 50 Watts of power on the 29/50/144 MHz bands, and 35 Watts on 430 MHz. To ensure thermal stability during long transmissions, a thermal sensor monitors heat sink temperature, engaging the rear panel's cooling fan only when needed.

Over 800 Memory Channels

The FT-8900R provides a wide variety of memory resources, including 799 "regular" memories, six "Home" channels for favorite frequencies, five sets of band-edge memories, and six "Hyper Memory" memories, which store complete transceiver operating status, for maximum operating efficiency and convenience. Six-character Alpha-Numeric "Tags" (labels) may be appended to memory channels, affording instant channel identification. No transceiver can compare with the memory capability of the FT-8900R!

Cross-Band Repeat Capability

For emergency work, or to extend the range of a hand-held unit, the FT-8900R includes Cross-Band Repeat capability, similar to that pioneered on our popular FT-8100R Dual Band FM Mobile!

One-Touch Band-Pattern

To save valuable time while operating a transceiver with the versatility of the FT-8900R, the "Hyper Memory" feature allows you to store a complete set of configuration data for the two bands on which you're operating. Besides the usual storage of frequency and tone data, Hyper Memory will store such setup parameters as Automatic Repeater Shift status, Packet parameters, Scanning mode, and VFO tracking, avoiding the need to change each of these functions manually on a regular basis.

CTCSS and DCS Encoders Built In

Providing excellent performance even under difficult link conditions, Yaesu's 50-tone sub-audible CTCSS and 104-tone DCS signaling systems ensure that you have full access to repeater and remote-base inputs, and the built-in CTCSS/DCS decoders allow silent listening on busy channels. Plus you get Tone Search Scanning, which will scan for the tone being received on an incoming signal, allowing you to match tones quickly when operating on a new repeater system

Easy Setup for FM Satellite Operation

For operating on FM satellites like UO-14, the versatile memory system of the FT-8900R allows you to store a set of uplink and downlink frequencies that account for Doppler shift over the entire horizon-to-horizon pass, allowing you to select the optimum uplink/downlink combination effortlessly!

Truly Independent Two-Channel Operation

Basically operating as two radios in one, the FT-8900R may be configured in a number of ways. For example, you can set up the "left" side of the rig for operation on 29, 50, 144, or 430 MHz operation, while setting the "right" side either to 144 MHz or 430 MHz. And, if you like, you can configure the FT-8900R for 144-144 MHz or 430-430 MHz Dual Receive operation, so you'll never miss out on the action!

The left and right sides have their own Volume and Squelch controls, as well as S-Meters, so your operating preferences are never compromised.

NEWS

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ARRL Rocky Mountain Division update - March 2015 Division website:
www.RockyMountainDivision.org
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(NOTE: Please feel free to forward this Division Update to your club email reflector or use content for your club newsletter.)

===== Amateur Radio Parity Act of 2015 Introduced - Call to Action =====

The Amateur Radio Parity Act of 2015 (H.R.1301) has been introduced in the US House of Representatives. The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep Adam Kinzinger (R-IL) introduced the bill on March 4 with 12 of the original co-sponsors from last year's H.R. 4969 legislation immediately signing on.

H.R. 1301 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include such private land-use agreements without direction from Congress.

H.R. 1301 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure.

This is a call to action for all ARRL members to once again contact your US House member and ask them to sign on to the bill as a co-sponsor.

ARRL staff, officers, and board members are planning to personally visit members of Congress and their staff in Washington DC to convey the importance of this legislation and seek their support as co-sponsors. An equally strong grassroots effort from each Representatives' constituents (that is, every ARRL member and ham back at home) is the other much needed part of the equation for H.R. 1301 to gain the visibility and support it needs to move through the political process on Capitol Hill.

To learn who your Representative is and obtain their contact information (email or mail), please visit <http://www.house.gov/representatives/find/> and enter your zip code.

Additional details about H.R.1301 including talking points, a list of current co-sponsors, sample email or letter text, and more can be found at www.arrl.org/hr-1301

If you wish to express your support for H.R. 1301 to your Representative by signed letter, please read the sections pertaining to letter writing and delivery on the ARRL web link provided above carefully.

(ARRL is currently engaging members and staff in the US Senate to develop support for a companion bill. Please do not reach out to your Senators quite yet.)

Finally, if you happen to know your Representative or Senators (or any of their staff) personally, please contact Brian Milesosky N5ZGT immediately (n5zgt@arrl.net).

===== ARRL HF Band Planning Committee Requests Member Input =====

The ARRL HF Band Planning Committee requests member input on proposed changes to the voluntary band plans for several HF bands and two suggestions for related changes in the FCC Rules. Band plans do not have the force of law but are voluntary guidelines intended to improve operating effectiveness and enjoyment.

A copy of the article "Member Input Sought on Draft HF Band Plan Proposals" published in the April 2015 QST, which details the HF bandplanning committee proposals can be found at

<http://www.arrl.org/files/file/About%20ARRL/Committee%20Reports/2015/January/SUMNER%20QS4.pdf>.

A copy of the HF Bandplanning committee's report to the ARRL Board of Directors at their January 2015 meeting can be found at

http://www.arrl.org/files/file/About%20ARRL/Committee%20Reports/2015/January/Doc_22.pdf

Input is being accepted via an online form at <http://www.arrl.org/bandplan> through April 19.

===== Colorado PRB-1 Legislation Passed, Signed into Law =====

The Colorado General Assembly recently introduced and passed, unanimously and without amendments, a PRB-1 bill (SB 15-041), sponsored by Senator Chris Holbert and Representative Kevin Van Winkle. According to the bill's summary, "The federal communications commission (FCC) currently limits the authority of local governments to regulate amateur radio communications. Any local government regulation must be based on health, safety, or aesthetic considerations, must be crafted to reasonably accommodate amateur radio communications, and must represent the minimum practicable regulation to accomplish a legitimate purpose of the local government. This federal preemption is contained in a memorandum opinion and order from the FCC known as 'PRB-1'. [SB 15-041] specifies that no local government shall enact or enforce an ordinance or resolution regulating amateur radio antennas that fails to comply with the restrictions contained in the PRB-1."

This is a huge milestone for all amateur radio operators in Colorado. Special thanks to ARRL Colorado State Government Liaison Robert B.

Wareham NØESQ for getting the legislation written and introduced by Senator Holbert and Representative Van Winkle, as well as for testifying in support of it in committee. Thanks also to ARRL General Counsel Chris Imlay W3KD, who provided additional testimony in support of the legislation on behalf of the American Radio Relay League.

Finally, thank you to all hams and ARRL members in Colorado who provided grassroots support for this legislation.

The full text of this legislation can be found under "SB15-041.pdf" at <http://www.leg.state.co.us/CLICS/CLICS2015A/csl.nsf/BillFoldersSenate?openFrames&et>

===== Wyoming Section: Passing the Baton =====

After serving Wyoming's ARRL members as Section Manager since 2009, Garth Crowe WY7GC will pass the baton to new leadership at end of this month. Garth's service and dedication while wearing the red badge was an asset for both the Wyoming section and the Rocky Mountain Division.

Garth, on behalf of ARRL, thank you for all you have done for ham radio and the League throughout your tenure as Section Manager.

Jack Mitchell N7MJ, of Cheyenne, was elected as Wyoming Section Manager and will take office on April 1. He has been a ham since 1973, serves as secretary of the ShyWy Amateur Radio Club, is an ARRL volunteer examiner, and enjoys operating digital, phone, and CW on the air.

Welcome, Jack! We are excited to work with you.

===== 2015 ARRL Rocky Mountain Division Convention =====

The 2015 ARRL Rocky Mountain Division Convention will take place July 31-August 2, 2015 at Ruby's Inn located a short distance away from gorgeous Bryce Canyon National Park. Carrying on the tradition of quality Division Conventions, the Utah Section (this year's host) is hard at work planning a great weekend getaway this summer. Among the numerous things to look forward to: Spending a weekend meeting and building relationships with hams from all across Colorado, New Mexico, Utah, and Wyoming; buying and selling amateur radio equipment; ham related competitions and awards; ham license exams; an always special Wouff Hong ceremony; delicious meals; many prizes; technical and non-technical forums; special guest speakers and VIPs; and much more.

Bookmark the Convention's website (<http://utahhamfest.com>) where more details will be posted soon. Convention registration will open soon; however be sure to reserve your comfortable room, RV spot, or camping area at Ruby's Inn before they are all spoken for. Details at <http://utahhamfest.com/where-to-stay>

We look forward to seeing you in Bryce Canyon for the 2015 ARRL Rocky Mountain Division Convention this summer.

===== 2015 Central States VHF Conference -- Call for Papers/Presentations =====

The 49th Annual Central States VHF Society Conference will take place in Denver, Colorado on July 23-26th, 2015. This year's conference, hosted by Rocky Mountain Ham Radio, will occur at the Denver Marriott Westminster. Complete

details about the event including online registration is available at <http://2015.csvhfs.org>

The Central States VHF Society is calling for the submission of papers, presentations and posters for the upcoming conference. Papers, presentations and posters are solicited on both the technical and operational aspects of VHF, UHF and Microwave weak signal amateur radio. Suggestions are listed below, but are not limited to:

- Propagation (Sporadic E, Meteor Scatter, Troposphere Ducting, etc.)
- Amateur Satellites
- Regulatory Topics
- Antennas including Modeling/Design, Arrays, and Control
- Test Equipment including Homebrew, Using, and making measurements
- Construction of stations equipment, such as Transmitters, Receivers, and Transverters
- Operating including Contesting, Roving, and DXpeditions
- RF power amps including Single and Multi-band Vacuum Tube and solid-state
- Pre-amplifiers (low noise)
- Digital Modes WSJT, JT65, etc.
- Regulatory topics
- EME
- Software-defined Radio (SDR)
- Digital Signal Processing (DSP)

Non-weak signal topics, such as FM, repeaters, packet radio, etc., are generally not considered acceptable. However, there are always exceptions. Strong editorial preference will be given to those papers that are written and formatted specifically for publication, rather than as visual presentation aids.

For more specific information, please see the "Guidance Documents" section on the Conference website at <http://2015.csvhfs.org>

===== ARRL Rocky Mountain Division Net =====

Please join us for our next monthly ARRL Rocky Mountain Division amateur radio net.

ARRL members and hams are invited to participate in this monthly interactive and roundtable-like net, accessible through both IRLP and Echolink (experimental link) to interact with Division and Section leadership, meet League members, and receive pertinent League-related information while at home or out and about.

Here are the details:

DATE: Second Wednesday evening of each month (next: April 8)
TIME: 7:30 PM mountain time
IRLP NODE: 9871
ECHOLINK NODE (experimental): 415699 (K0JSC-R)

To find an IRLP-capable repeater in your area, visit the "Node Info" page at <http://www.irlp.net>. Generally all you need to do to link an IRLP-capable repeater into the net's reflector is enter "9871" with your DTMF keypad and wait for the voice prompt indicating that the link is open. To unlink, enter "73".

To find an Echolink-capable system in your area, visit <http://www.echolink.org/> and <http://www.echolink.org/links.jsp>

If you've never used IRLP or Echolink before, please experiment with linking/unlinking before the net.

We hope you'll join us for the net.

==== Upcoming Hamfests, Tailgates and Conventions ====

Apr 4	Longmont ARC LarcFest (Longmont, CO)
Apr 18	Cloud Peak Radio and Electronics Group Swapfest (Sheridan, WY)
Apr 25	Albuquerque Spring Tailgate Swapfest (Albuquerque, NM)
Jun 6	Montrose ARC Tailgate Party (Delta, CO)
July 23-26	Central States VHF Conference (Denver, CO)
Jul 31-Aug 2	2015 ARRL Rocky Mountain Division Convention (Bryce Canyon, UT)
Aug 7-9	New Mexico ARRL State Convention / Duke City Hamfest (Albuquerque, NM)
Aug 16	Denver Radio Club Hamfest (Golden, CO)
Oct 3	Socorro Hamfest (Socorro, NM)

Links to websites belonging to the above events are found on the Rocky Mountain Division site: www.RockyMountainDivision.org

If you're organizing a Hamfest, convention, or tailgate we encourage you to apply for ARRL-sanctioning. Sanctioning provides many benefits (including your event being listed above), and details can be found at <http://www.arrl.org/hamfest-convention-application>

==== Upcoming On-Air Activities ====

In addition to chewing the rag with fellow hams, here are some additional on-air activities which await you on the airwaves.

Upcoming special event stations:

<http://www.arrl.org/special-event-stations>

Upcoming contests: <http://www.arrl.org/contest-calendar>

Upcoming state QSO parties: <http://qsoparty.eqth.net> Operating awards:

<http://www.arrl.org/awards>

==== Final Note... ====

Please touch base with your Section Manager if he can be of assistance to you:

Jack Ciaccia WMØG (Colorado):

<http://www.arrl.org/Groups/view/colorado>

Bill Kauffman W5YEJ (New Mexico):

<http://www.arrl.org/Groups/view/new-mexico>

Mel Parkes NM7P (Utah): <http://www.arrl.org/Groups/view/utah>

Garth Crowe WY7GC (Wyoming): <http://www.arrl.org/Groups/view/wyoming>

Vice Director Dwayne Allen and I continue to welcome your concerns, questions and ideas regarding ARRL policies. We are grateful for your membership within ARRL, and thank you for a memorable Centennial year.

We look forward to working you on the air.

73,

Brian Milesosky N5ZGT, Rocky Mountain Division Director Dwayne Allen WY7FD,
Rocky Mountain Division Vice-Director Division website:

www.RockyMountainDivision.org

ARRL Rocky Mountain Division
Director: Brian P Milesosky, N5ZGT
n5zgt@arrl.org

Jokes

OF GENIES AND THINGS

A ham operator is operating Field Day alone at a deserted beach. He is taking a little break from the action, walking around on the beach and notices an antique brass bottle mostly buried in the sand. He digs it out and discovers it's a genie bottle! He manages to get it open and a genie appears. "Thank you for freeing me, O Master!" said the grateful genie. "I will grant you any one wish you want." The ham thinks about it and says, "OK, I got it. I live right now in a restrictive neighborhood. I would like to have a 500 foot tower with all sorts of antennas, despite the homeowners association." The genie looks worried. "O Master! That's a big order. The power of these HOAs and their CC&Rs is most powerful! In fact, they are more powerful than even I, O Master! I would beg you to please choose something else for your wish." The ham says, "OK, let's do this." He goes over to his ham station and pulls out his log books. "See this entry? This is a contact I once made with AC6V. I would sure like to get his QSL card after all this time." The genie looks at the logbook. Then he says, **"Now regarding that 500 foot antenna tower, do you want it galvanized or stainless steel?"**