

ROUND TABLE

Monthly Newsletter Of The Denver Radio Club

Since 1917 September 2024

PRESIDENT'S MESSAGE

BY GERRY VILLHAUER, W0GV

We are getting closer to being over with the hot days. From the 100's to 80's feels much better. Time to get those outdoor antenna projects completed before we are complaining about the cold and snow.

Our September program will be two fold. We will have our annual meeting and election of officers followed by a program presented by Mr. Riley Hollingsworth, K4ZDH, retired Special Counsel to the FCC's Enforcement Bureau. Since retirement, Riley has taken on the duty of heading up the Volunteer Monitor Service. You will find the results of the Volunteer Monitor Service Reports in the monthly issues of QST Magazine. Riley is a dynamic speaker and I am sure will have some very interesting stories to share. Mark your calendars for Wednesday September 18th at 7 pm. Don't miss it!

On Saturday, August 31st, another DRC Saturday event was held at Prospect Arena in West Arvada. This coincided with the Colorado State QSO Party. A portable antenna was set up along with a battery powered HF radio. Many contacts were made and logged. A turn at the mic was passed around and for several operators this was their first opportunity to actually get on the air. Refreshments were provided including donuts, hot dogs and soft drinks. The weather was great as was the attendance, which was approximately 25 folks.

Denver Radio Club Lunch

An informal face-to-face meeting of DRC members will start on the third Wednesday of each month at 11:30 a.m. The location is at the Valley Inn Restaurant, 1997 S Wadsworth Blvd, in Lakewood. This restaurant is on the southern edge of the King Soopers Shopping Center at Jewell and Wadsworth. No reservations are required. If you are interested in meeting and talking about radio, or other topics, don't hesitate in coming by.

Thanks to all of our new members who have recently joined the DRC. Your support is very much appreciated. Please come to meetings and events and stay active. Your name and call will be posted in this edition of the Round Table.

73 for now,

Gerry W0GV President



© Denver Radio Club

Who's New In The DRC?

First of all, we have a new Membership Chairperson, Kelly Sobanski, KB8OGP taking over for Cathy Villhauer, N0CRZ. A big thank you to Cathy for all her work with the membership caretaking. We really appreciate it. Kelly, thank you for stepping in.

The DRC is a very active club in the Denver metro area and we'd like to have all of our members listen for these new calls and welcome them to the club and repeaters. Welcome to our newest members:

| Sam Chrisbens - NOKEI | Kathy Samaras - NOGLA |
|---------------------------|-----------------------------|
| Joe Dickinson - WT0C | Jay Burnham - KB0MPF |
| Aaron Kinman - W0AJK | Richard (Rik) Plass - ACOFY |
| Aidan Keiser - KF0PYH | Karen Goodgie - KE0FWE |
| Bruce Kirkpatrick - KEOVR | Casey Davis - NV9P |
| Thomas Cornett - AC3TM | Peter Kozacik - KEØTSF |
| Jamie Lightner - KFORLC | Charlie Marshall - No Call |
| Len Koppl - KD0RC | Mark Hutchinson - N7CD |
| Jeremy Broin - KF0PVI | |

We have a number of activities throughout the year and we'd like very much for you to participate in serving your community. If you have questions please feel free to ask on any of the repeaters or see the contact information on the last page of this publication.

Also, please join us once a month at the regular club meeting on the 3rd Wednesday at 7:00 p.m. For new hams we have the Elmer session which starts at 6:00 p.m. before the regular meeting.

QUESTION OF THE MONTH

BY BILL RINKER, W6OAV

What are the Effects of Raising a VHF/UHF Antenna?

The answer can be found on page 12 of the December 2017 issue of the Roundtable: https://w0tx.org/RoundtableArchive/2017-RoundTables/RT201712(DEC).pdf

Understanding Solar Flux Numbers

BY BILL RINKER, W6OAV

When accessing QRZ.com and many other ham related websites we see the chart shown in Figure 1. So, what do these numbers mean? The following videos provide good explanations of the solar numbers:

What exactly are the key Solar Indices?

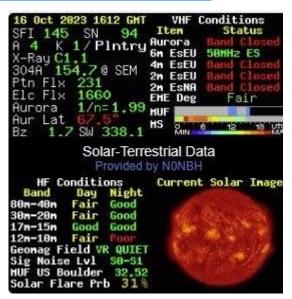
https://www.youtube.com/watch?v=hsl0JezFZ80

How Solar Indices Work: SFI, SN, A & K (#324)

https://www.youtube.com/watch?v=Yp01Cxiu0jk

Making sense of Solar Indices

https://www.youtube.com/watch?v=JoXvdPPAe6c&t=74s



TUNING A DIPOLE

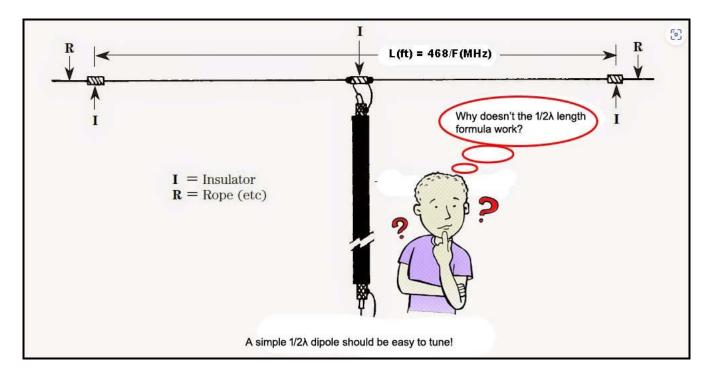
BY BILL RINKER, W6OAV

 $1/2\lambda$ dipole antennas are great, but they can be a pain to install. The standard formula for calculating the length of a $1/2\lambda$ dipole antenna, L(feet) = 468 / F(MHz), is often inaccurate. This can lead to a lot of trial and error when trying to get the antenna to the correct length.

The standard $1/2\lambda$ dipole formula is an *approximation* that can be used to calculate the length of a dipole antenna. However, the actual length of the antenna will vary depending on several factors, including the height of the antenna, the ground conductivity [1], nearby trees, houses, etc. The standard $1/2\lambda$ dipole formula was derived experimentally by G. Wm. Lang in 1926 and was included in the 1926 Antenna Handbook. The formula is still a good starting point for calculating the length of a dipole antenna. However, it is important to keep in mind that the actual length of the antenna may vary from the calculated value. [2].

There is a simple procedure for installing a 1/2λ dipole antenna in a particular environment. The procedure involves determining a new constant to replace the constant 468 in the standard formula. This new <u>"standard formula"</u> will take into account the effects of the environment around the dipole. This new "standard formula" will be useful for future antenna installations in that same environment. The following Illustrates the procedure for installing a dipole for 7.2 MHz:

- 1. Let (F1) be the desired dipole frequency:
 - a. Let F1 = 7.2 MHz.
- 2. Choose a frequency (F2) slightly lower than the desired frequency (F1) to allow for cutting:
 - a. Assume F2 = 7.1 MHz.
- 3. Using F2 ,calculate and cut the length (L1) of the dipole using the standard formula:
 - a. L1(ft) = 468 / F2 = 468 / 7.1 = 65.9155'.
- 4. Raise the dipole and measure its resonance frequency (F3):
 - a. For this example, assume the measured frequency (F3) is 7.044 MHz.
- 5. Use the (F3) to calculate a new formula constant (C1) to replace the constant 468:
 - a. $C1 = (L1) \times (F3) = 65.9155' \times 7.044 \text{ MHz} = 464.3088.$
- 6. Replace 468 with the new constant (C1) and calculate the new length (L2) of the dipole:
 - a. L2(new ft) = C1/ F1 = 464.3088 /7.2 = 64.4873'.
- 7. Lower and cut the dipole to the new length L3:
 - a. L3 = L1 L2.
 - b. Cut off a total of 65.9155' 64.4873' = 1.4282' or 17.1384" from the total length of the dipole or 8.5692" from each end.
- 8. Reraise the dipole and remeasure to verify proper resonance:
 - a. The resonance frequency should now be close to the desired frequency.
- 9. Save the new "standard" formula developed in step 6 (L = 464.3088/F) for installing future antennas in this same environment.



A better solution

Why not install a dipole that does not require tuning, functions better than a tuned dipole and provides multiband operation with gain? [3] [4].

References

[1]. Ground Conductivity in the United States:

https://www.fcc.gov/media/radio/m3-ground-conductivity-map

[2]. QST, October 1929, "The Length of the Hertz Antenna."

https://worldradiohistory.com/hd2/IDX-Short-Wave/QST-IDX/IDX/20s/QST-1926-10-OCR-Page -0018.pdf

[3]. Roundtable, Feb 2016, P 10, "Building a Simple Lossless All Band Dipole":

https://w0tx.org/RoundtableArchive/2016-RoundTables/RT201602(FEB).pdf

[4]. THE ALL BAND HF DOUBLET:

http://www.hamuniverse.com/hfdoublet.html

CFT1—5 BAND CW FIELD TRANSCEIVER

FROM JONATHAN KAYNE, KM4CFT

(Editors Note: Jonathan is a member of the DRC and over the past year has been working on designing and releasing the CFT1. The kits will be up for sale soon. https://www.qrz.com/db/KM4CFT)

Here is some information from the brochure:

The perfect companion for the POTA/SOTA activator as well as Portable or base station!

Amazing performance on the five most useful CW portable op bands (40-30-20-17-15M). Smooth break-in CW (no pops in between characters or letters) and low internal noise receiver, yet very sensitive. AGC to automatically control most strong signals from overloading. No fatigue to listen to this radio all day long.

Best of all, this radio has just the most important features that are well thought out to access via the simple and limited "single level" menu. So easy to operate that most CW ops will be able to use almost all functions right away and just a quick glance at the operating manual will be there for confirming the functions. CW message memories are performed all from the menu so there is no problems with having to re-record over errors in paddle entry systems.

Actual knobs for volume and frequency change, no clumsy up/down buttons! Push the frequency knob to change tuning rate. Use your earphones or a powered external speaker.

Reliable, forgiving with poor loads and will get you on the air even with compromised antennas as can be found in many POTA/SOTA/apartment conditions.

Some unique features not found in other small QRP radios, like XIT. Why XIT (transmit offset)? Tune in the station you wish to call and if there are more than one station calling, you can use XIT to move your transmit frequency up or down while still not moving your receive frequency

to present a different and easier to copy difference tone to the receiving station. Every QRP radio should have RIT/XIT but most do not have XIT.

Dual function (long press) buttons to access RIT/XIT, not buried in a menu!

Logical layout and FOUR memory playback buttons on the front panel - no digging thru menus to playback your memories! Excellent for calling CQ and saying 73!

Easy to build for the intermediate builder, lots of fun to use, just turn on and start making contacts!

Features and Specs:

- 40-15m Bands, 40m-8W, 30/20m-5W, 17/15m-3W
- 60-90mA Receive, 0.7-1.5A Transmit
- 8-14V wide input voltage range
- Dedicated buttons for message playback
- Simple User Interface
- AGC, RIT and XIT
- 2.75"L x 4"W x 1.5"D, weighs less than 8 ounces
- · Variable Key Speed, Straight, lambic A/B
- Paddle Reverse, Adjustable Sidetone and Tx Offset
- 350 Hz Crystal Filter (hand matched for precise filtering)





Image: Charlie NJ7V, Red Summit RF activating a SOTA summit with the CFT1

https://www.ebay.com/str/radiodanw7rf or https://HamGadgets.com

QRZ Bio: My name is Jonathan, a young Extra Class Operator. I am a graduate from Viriginia Tech and currently live south of Denver, Colorado.

My freshman year in high school, I stopped by the library to pick up a book about electronics. The "brobarian", noticed this and told me about the Make Club, which was still in development, and he later introduced me to a Senior named Zach Thompson. Zach and I became really good friends and during the annual Moogfest, he asked me if I wanted to get a ham radio license. After lots of studying (and joking), on May 19th, 2014 Zach earned his tech under the callsign KM4BLG. I found out that you could study for more than one class and so I studied for General and extra. As a result, on June 16th, 2014 I earned my Technician and General class license (I missed the extra by 1 question!) under the callsign KM4CFT. At the following WCARS Hamfest, Zach upgraded to General, and the Next year, I upgraded to Extra on July 25th, 2015. So far, amateur radio has had a massive influence on my life, and my all time favorite hobby!



DRC SATURDAY RESULTS

FROM MARK THOMAS, NOXRX

The recent DRC Saturday was another great event with a lot of people attending.

Here are the numbers from the logs:

Total Contracts 70
Total QSO Points 77
Total Multipliers 31
Total Score 2387

The software worked great and I asked people while they were using it and they all seemed to like it.

Thanks for everyone's help!!

USB Confusion

BY BILL RINKER, W6OAV

Computers are an essential tool for radio amateurs. They are used for a variety of tasks, from logging contacts to controlling radios. Computers make amateur radio more efficient, more enjoyable, and more accessible. However, even though widely used there is a lot of confusion about USB. So, why the confusion? Well, there are a few reasons:

- The naming conventions are confusing. USB standards have been renamed several times over the years, which can make it difficult to keep track of which standard is which. For example, USB 3.0 was originally called SuperSpeed USB, and USB 3.1 Gen 1 was originally called USB 3.0.
- There are many different USB connectors. USB devices use a variety of different connectors, each with its own advantages and disadvantages. For example, USB-A connectors are the most common USB connector, but they are not reversible. USB-C connectors are reversible, but they are not as widely available as USB-A connectors.
- The power delivery capabilities of USB devices vary. USB devices can draw different amounts of power, depending on their needs. This can be confusing when trying to choose the right cable for a particular device.
- The USB Implementers Forum (USB-IF) is working to address some of the confusion around USB by simplifying the naming conventions and making it easier to choose the right cable for a particular device. However, it may take some time for these changes to be fully implemented.

USB standards and connectors are closely related. The USB standard defines the electrical and mechanical specifications for USB connectors, as well as the data transfer rates and power delivery capabilities of USB devices.

USB Standards

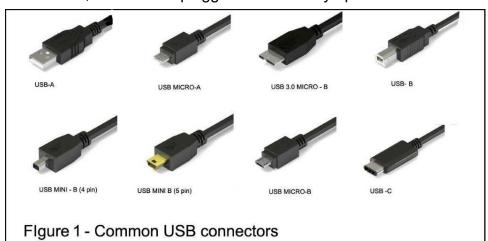
The different USB standards are:

• **USB 1.0**: This is the original USB standard, released in 1996. It supports a data transfer rate of up to 12 Mbps.

- **USB 1.1:** This is a revision of the USB 1.0 standard, released in 2000. It supports a data transfer rate of up to 12 Mbps.
- **USB 2.0**: This is a major revision of the USB standard, released in 2001. It supports a data transfer rate of up to 480 Mbps.
- **USB 3.0**: This is a major revision of the USB standard, released in 2008. It supports a data transfer rate of up to 5.0 Gbps.
- **USB 3.1**: This is a revision of the USB 3.0 standard, released in 2013. It supports a data transfer rate of up to 10.0 Gbps.
- **USB 3.2:** This is a major revision of the USB 3.0 standard, released in 2013. It supports a data transfer rate of up to 20 Gbps.
- **USB 4:** This is the latest USB standard, released in 2019. It supports a data transfer rate of up to 40 Gbps.

Figures 1 and 1A illustrate the common USB connectors. The following briefly describes these connectors.

- **USB-A**: This is the most common USB connector. It is used for a variety of devices, including computers, printers, and external hard drives.
- **USB Micro A**: Micro A is a smaller version of the standard USB-A connector. It is typically used on the host device, while USB Micro-B is used on the peripheral device. USB Micro A is not as common as USB Micro-B, but it can still be found on some devices.
- **USB Micro USB 3.0**: Micro B is a version of the USB Micro-B connector that supports faster data transfer speeds (up to 5 Gbps). It is typically used for connecting external hard drives, printers, and other devices that require a lot of data transfer.
- **USB-B:** This connector is often used for devices that require more power, such as printers and external hard drives.
- **USB-Micro-B**: This connector is smaller than USB-B and is often used for mobile devices, such as smartphones and tablets.
- **USB-C**: This connector is the newest USB connector and is designed to replace USB-A and USB-B. It is reversible, so it can be plugged in either way up.



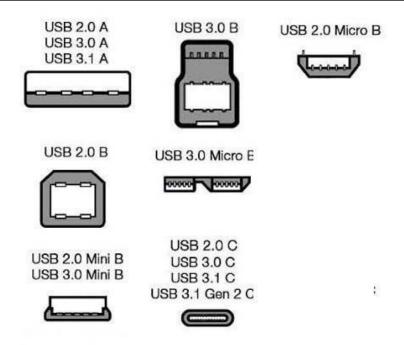


Figure 1A - USB CONNECTORS

The table below summarizes the capabilities of USB connectors.

| SUMMARY OF THE DIFFERENT USB CONNECTORS (SEE FIGURES 1,1A & 2) | | | | |
|--|---------------|-------------------|--------------------|--|
| Connector | Max speeds | Power Delivery | USB Standard | Common uses |
| USB-A | 480 Mbps | 500 mA | 1.0, 2.0 | Host devices, such as computers and printers |
| USB Micro A | 480 Mbps | 500 mA | 1.0, 2.0 | Host devices |
| USB Micro USB 3.0 | 5 Gbps | 900 mA | 2.0, 3.0 | External hard drives, printers, and other devices requiring a lot of data transfer |
| USB-B | 480 Mbps | 500 ma | 1.0, 2.0, 3.0 | Peripheral devices, such as printers and |
| USB Mini-B 4-pin | 480 Mbps | 500 ma | 1.0, 2.0, 3.0 | Older devices, such as digital cameras and MP3 players |
| USB Mini-B 5-pin | 480 Mbps | 500 ma | 1.0, 2.0, 3.0 | Newer devices, such as smartphones and tablets |
| USB Micro B | 480 Mbps | 900 ma | 1.0, 2.0, 3.0 | Smartphones, tablets, cameras, and other portable devices |
| USB-C# | 40 Gbps | 100 watts | 3.0, 3.1, 3.2, 4.0 | Dual 4K & 8K displays at 60Hz |

USB-C connectors are a new type of connector that offers a number of advantages over traditional USB connectors. They are reversible, faster, can deliver more power, and support multiple protocols such as the newest USB 4. As a result, USB-C connectors are becoming increasingly common, and they are likely to become the standard connector for many devices in the future.

The table below summarizes the relationship between USB standards and connectors.

| SUMMARY OF THE RELATIONSHP BETWEEN USB STANDARDS AND CONNECTORS | | | | |
|--|--|-------------------|-------|--|
| USB Standard | Connectors | Cable Length # | | |
| USB 1.0 | USB-A, USB-B | 12 Mbps | 5 m | |
| USB 1.1 | USB-A, USB-B | 12 Mbps | 5 m | |
| USB 2.0 | USB-A, USB-B USB-Micro A&B USB-Mini A&B USB-C | 480 Mbps | 5 m | |
| USB 3.0 | USB-A, USB-C, USB Micro-B | 5.0 Gbps | 3 m | |
| USB 3.1 | USB-A, USB-C, USB Micro-B | 10 Gbps | 1 m | |
| USB 3.2 | USB-A, USB-C, USB Micro-B | 20 Gbps | 1 m | |
| USB 4 | USB-C | 40 Gbps | 0.8 m | |

These are just the maximum recommended cable lengths. The actual cable length that can be used will vary depending on the quality of the cable and the environment in which it is used.

The different USB standards and connectors are compatible with each other, but the data transfer rate and power delivery capabilities will be limited to the capabilities of the older standard. For example, if you use an adapter cable to connect a USB 3.0 device to a USB 2.0 port, the device will only be able to transfer data at the USB 2.0 speed of 480 Mbps.

USB Cables

Figure 3 shows 8 types of USB cables, but not all of them are in active use today. The most common types of USB cables are:

- **USB Type-A**: This is the most common type of USB cable. It has a rectangular connector on both ends. It is used to connect devices such as flash drives, keyboards, and mice to computers.
- **USB Type-A to Type-B**: This cable has a rectangular connector on one end and a square connector on the other end. It is used to connect devices such as printers and scanners to computers.
- **USB Type-C to Type-C**: This cable has a reversible connector on both ends. It can be plugged in either way. It is the latest type of USB cable and is becoming increasingly com-

© Denver Radio Club

mon.

Micro USB: This cable has a small, rectangular connector on one end and a USB Type-A
connector on the other end. It is used to connect smartphones, tablets, and other portable
devices to computers.

- **Mini USB:** This cable is similar to micro USB, but it is slightly larger. It is not as common as micro USB, but it is still used by some devices.
- **USB Extension Cable**: This cable extends the length of a USB cable. It is useful if you need to connect a device that is far away from the USB port.
- USB On-The-Go (OTG): This cable allows you to connect a device that normally uses a
 USB Type-A connector to a device that normally uses a USB Type-B connector. For example, you can use an OTG cable to connect your smartphone to a printer.
- Active USB Cable: This cable has a built-in amplifier that boosts the signal strength. It is useful for connecting devices that are located in areas with poor signal reception.

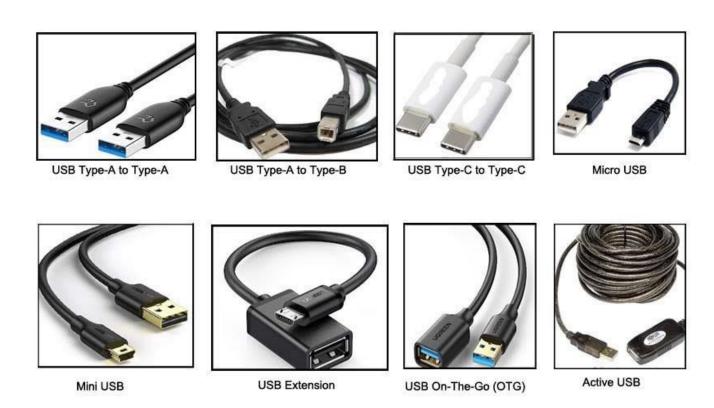
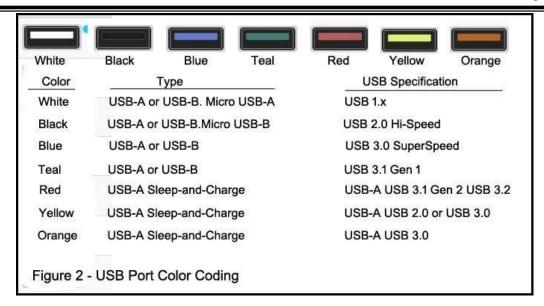


Figure 3 - The most common types of USB cables

Port Colors

USB port colors are not officially defined by the USB standard, but they are often used by manufacturers to indicate the capabilities of the USB port. See Figure 2.

It is important to note that the color of a USB port is not always a reliable indicator of its capabilities. Some manufacturers may use different colors for different ports, even if they have the same capabilities. It is always best to check the documentation for your device to see what type of USB port it is compatible with.



Recommendations

Below are some tips on how to avoid confusion about USB.

Do your research. Before you buy a new USB device, take some time to read the documentation and make sure you understand the capabilities of the device and the cables you need to connect it.

Pay attention to the colors of the ports. USB ports are often color-coded to indicate their capabilities. For example, blue ports are typically used for USB 3.0 devices, while black ports are typically used for USB 2.0 devices.

Use a reversible connector. USB-C connectors are reversible, which means you don't have to worry about plugging them in the wrong way. This can be helpful if you are often connecting and disconnecting devices.

Make sure your cables are up to date. Older cables may not be compatible with newer USB standards. If you are unsure, check the documentation for your device or contact the manufacturer for help.

References

Clearing Up the Confusion About USB... Again:

https://www.bhphotovideo.com/explora/computers/tips-and-solutions/clearing-up-the-confusion-about-usb-again

USB: Port Types and Speeds Compared

https://tripplite.eaton.com/products/usb-connectivity-types-standards/

USB Generation Guide: What you Need to Know:

https://www.yugatech.com/guides/usb-generation-guide-what-you-need-to-know/

USB Cables:

https://tripplite.eaton.com/products/usb-cables-usba~264-948

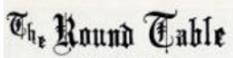
A Simple Guide to USB Port Colors and Their Meanings:

https://www.usbmemorydirect.com/blog/usb-port-colors/

PAST ROUND TABLE PAGES

PROVIDED BY WOODY LINWOOD, WOUL

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Page Four

EDITORIAL-

Lessons from "Aircrash"

It is the purpose of simulated emergencies like "Operation Aircrash" not only to train volunteer personnel but to give us warning of our weaknesses. Analysis of our performance during the two-day drill will be left to the proper authorities. There are, however, certain conclusions which can be drawn here.

The exercise did credit to its planners. It was not a game based on a make-believe enemy attack. It was a highly realistic exercise based on the very real every-day danger of a mid-air collision between a civilian and a military aircraft. It underlined the role of well-trained Civil Defense personnel in disasters of a domestic nature. It was a wise approach. The Civil Defense worker who feels that he will be useful only if and when there is a nuclear war often lesses interest.

The role of the amateur radio operator in this exercise was particularly significant. Activity of the participating groups was spread over a wide area of rugged terrain. Communication was the hub on which the entire operation turned.

Then, too, amateur radio served as the guardian of the more than 200 people who took part in the drill. With such a large number of people so far from civilization, this was the ever-present danger that a very real emergency would develop.

These two factors made "Operation Aircrash." not only a good training exercise but a good demonstration of the capabilities of amateur radio, And the operators who took part did a creditable job.

Now, what did we learn? For one thing, we were reminded that CD not only depends upon our skill as operators, but on our equipment as well. A mobile unit that isn't in reliable working order isn't a mobile unit. Emergencies won't wait until you replace that burned-out screen resistor.

Versatility must also be considered. Some of the most important areas of the exercise could not be reached by car. We needed pack sets and walkie-talkies. We didn't have them, rave for a few two-meter units, which were shown little mercy by the jagged termin around Mount Evans. A mobile transmitter under the dash and a

(Continued on Page Eleven)

DRC's Emergency Responses

In the event of a disaster in the metro area, please monitor our repeaters on 145.490/448.625 (primary) and 449.350 (secondary).

The emergency Net Control Operator will provide information and/or requests to members for assistance.

W0TX Repeater Directory

Kings Soopers Reward Program—Help the DRC. kingsoopers.com/i/community/community-rewards citymarket.com/i/community/community-rewards



RANDOM SITE OF THE MONTH Montgomery ARC (MD)



THE ROUND TABLE ARCHIVE AND ARTICLE INDEX

w0tx.org/roundtable

PROPAGATION FORECAST

By Bill Rinker, W6OAV

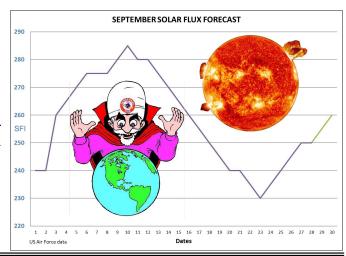
The charts below show the Solar Flux and "A" indexes for last month and the forecast for this month's Solar Flux index.

Refer to the September 2010 *Round Table* for more complete information on interpreting these charts, which is available at: http://www.w0tx.org/RoundtableArchive/2010-RoundTables/RT201009(SEP).pdf

Amateur Radio Propagation Website Carl Luetzelschwab, K9LA

k9la.us

The purpose of this website is to provide a comprehensive resource for hams, particularly focusing on propagation and solar topics. The website contains propagation articles, tutorials, specific band information, monthly features and timely topics.



UPCOMING EVENTS

HAMFESTS & CONVENTIONS

| Event | Date | Location | Sponsor Website |
|----------|---------|--------------------------------------|-----------------|
| BARCfest | 10/6/24 | Boulder Cty Fairgrounds Exhibit Bldg | Barcfest Info |

UPCOMING QSO PARTIES

The following are the Contests not sponsored by the ARRL. Please submit additions for future issues.

| State/Province | Start Date | End Date | Sponsor Website | Notes |
|----------------|------------|------------|--------------------------------------|-------|
| Tennessee | 09/01/2024 | 09/02/2024 | Tennessee Contest Group | |
| Colorado | 09/07/2024 | 09/08/2024 | Pikes Peak Radio Amateur Association | |
| Alabama | 09/14/2024 | 09/15/2024 | Alabama QSO Party | |
| lowa | 09/21/2024 | 09/22/2024 | Story County ARC | |
| New Hampshire | 09/21/2024 | 09/22/2024 | Port City Amateur Radio Club | |
| New Jersey | 09/21/2024 | 09/22/2024 | Burlington County Radio Club | |
| Texas | 09/21/2024 | 09/22/2024 | Texas DX Society | |
| Washington | 09/21/2024 | 09/22/2024 | Western Washington DX Club | |
| Maine | 09/28/2024 | 09/29/2024 | Wireless Society of Southern Maine | |
| California | 10/05/2024 | 10/06/2024 | California QSO Party | |
| Nevada | 10/11/2024 | 10/13/2024 | Sierra Nevada Amateur Radio Society | |
| Arizona | 10/12/2024 | 10/13/2024 | Arizona QSO Party | |
| Pennsylvania | 10/12/2024 | 10/13/2024 | The PA QSO Party Association | |
| South Dakota | 10/12/2024 | 10/13/2024 | Prairie Dog Amateur Radio Club | |
| New York | 10/19/2024 | 10/20/2024 | New York State QSO Party | |
| Illinois | 10/27/2024 | 10/28/2024 | Western Illinois Amateur Radio Club | |

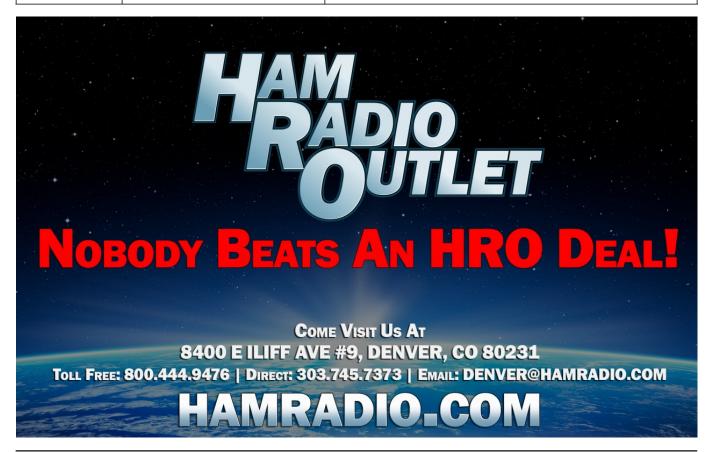
Source: gsoparty.eqth.net/index.html See contestcalendar.com/contestcal.html for a larger QSO parties list.

ATTENTION

The DRC Board of Directors meetings are held on the 4th Wednesday of each month via Google Meet and are open to any member. If you wish to attend, please contact a board member prior to the meeting night for specific information.

DRC REPEATERS

| BAND | Freq / Shift / PL Tone | Additional Information |
|--------|---|--|
| 6m | 53.090MHz (-1MHz) 107.2Hz PL | |
| Packet | 145.05MHz | Metro Denver Area Coverage |
| 2m | 145.490MHz (-) 100Hz PL | Linked to 70cm / 448.625MHz. Primary frequency during emergency net. |
| 2m | 147.330MHz (+) 100Hz PL | Local area. Has voting receivers. Does not TX a PL. |
| 2m | 147.330MHz (+) 131.8Hz PL | Test mode operation. Send signal reports to Tech Committee. |
| 1.25m | 224.380MHz (-) 100Hz PL | |
| 70cm | 447.825MHz (-) DCS~073; NB 12.5; +/- 2.5 | Saint Anthony's. Note: This is a narrow band repeater requiring DCS. |
| 70cm | 448.625MHz (-) 100Hz PL | Linked to 2m / 145.490MHz. 1° disaster net freq. |
| 70cm | 449.350MHz (-) 100Hz PL | Wide area coverage with Echolink, node # 4140. Secondary frequency during emergency net. |
| 70cm | 449.775 MHz (-) | Yaesu digital, C4FM, Wires-X, DN, VW & Data. No analog FM. W0TX Room 40931. |
| 70cm | 446.7875MHz (-) | BrandMeister Repeater: Slot 1 – Wide Area Traffic, Slot 2 – Local Talk Group 310804 |



SEPTEMBER 2024 DRC Net Sundays at 8:30 p.m. on 145.490 / 448.625 (no PL) Monday Wednesday Thursday Sunday Tuesday **Friday** Saturday 1 2 3 5 6 7 **Learning Net** 7:30 p.m. 145.490 / 448.625 (No PL) New Moon 8 9 11 12 14 10 13 Learning Net September VHF 7:30 p.m. 145.490 / 448.625 (No PL) First Quarter 17 21 15 19 20 16 18 DRC Lunch 11:30 @ Valley Inn September VHF September VHF EME 2.3 GHz & Up Restaurant, Lakewood. 10 GHz & Up - Round 2 **DRC Monthly Online** Meeting Elmer 6 PM Meeting 7 PM Full Moon 22 23 24 27 28 25 26 EME 2.3 GHz & Up 10 GHz & Up - Round 2 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL) Last Quarter 29 30

See arrl.org/contest-calendar for additional details about contests.

DRC BOARD OF DIRECTORS

| President | W0GV | Gerry Villhauer | 303-467-0223 | president@w0tx.org |
|----------------|--------|-----------------|--------------|--------------------|
| Vice-President | K0KPS | Kevin Schmidt | 303-475-9234 | k0kps@arrl.net |
| Secretary | WW0LF | Orlen Wolf | 303-279-6264 | secretary@w0tx.org |
| Treasurer | N0CRZ | Cathy Villhauer | 303-467-0223 | treasurer@w0tx.org |
| Board Member | N0XRX | Mark Thomas | 720-438-0848 | n0xrx@w0tx.org |
| Board Member | K1DBC | Doron Ben Chaim | 720-254-1561 | k1dbc@w0tx.org |
| Board Member | WG0N | Dave Baysinger | 303-987-0246 | wg0n@arrl.net |
| Board Member | KB0CHT | Jeff Irvin | Check Roster | Check Roster |

DRC STAFF AND VOLUNTEERS

| Benevolent | | Carolyn Wolf | 303-279-1328 | benevolent@w0tx.org |
|-----------------------|--------|------------------|--------------|--------------------------|
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| EmComm Coordinator | KE0HFH | Michael Vespoli | 303-215-8862 | emcomm@w0tx.org |
| Field Day Chairman | N6WHV | Dick Nelson | | fieldday@w0tx.org |
| Membership | KB8OGP | Kelly Sobanski | | membership@w0tx.org |
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| Tech. Committee Chair | Open | | | tech@w0tx.org |
| Trustee | WW0LF | Orlen Wolf | 303-279-6264 | trustee@w0tx.org |
| VE Team | K0RAP | Robert Pickett | 720-336-0114 | k0rap@w0tx.org |
| Website & YouTube | K1DBC | Doron Ben Chaim | 720-254-1561 | websiteadmin@w0tx.org |

Please Let Us Know

Over the years we occasionally hear from hams who have read the Round Table in other states and countries around the world. We appreciate the comments and we would like to know where you are located. So if you live outside the Front Range or Denver Metro Area and read the newsletter either online, email or hard copy please send a short note via email with your *City, State* or *City, Country*.

We will publish it at a later date in our new regular feature called Round Table Round World.

To respond to this request send your information to round to the request send your information.

Subject: I'm located in...

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DRC members - this is your newsletter. Please email your club or amateur radio related suggestions to the editor. Members are the heart of The Denver Radio Club, so if you have an expertise or an interest in a particular segment of ham radio that you'd like to write about, you may email your submissions to roundtable@w0tx.org. The submission deadline is the 25th of the Month. ~ Editor