



ROUNDTABLE

The Denver Radio Club Newsletter

Since 1917

April 2020

PRESIDENT'S MESSAGE

BY GERRY VILLHAUER, W0GV

Hello DRC Members,

Life has changed dramatically for all of us since my last month's president's message. I have not heard of any DRC members contracting COVID-19; I hope this holds true throughout these very turbulent times. All of the members I have talked to on the radio and phone the last couple of weeks appear to be complying with the "Stay at Home Order". It is the only way to combat the spread of the virus to friends, family and co-workers. Keep up the good work and stay in; even as hard as it is to do.

THE FOLLOWING PARAGRAPH IS IMPORTANT...PLEASE READ

Here is the plan for our April 15th meeting night. We will have a meeting and a program for April 15th in a way we have never done before. This will be a virtual (online) meeting complete with audio and video. We will do this through a Google platform called "Hangouts Meet". Prior to the meeting night, everyone on our email list will receive an email that contains the meeting attendance information below. On the meeting night (04/15/20), five to ten minutes before you want to join (6PM for Elmer session, 7PM for the meeting program) click the link and your browser will be directed to a waiting room that contains a "Join" button. Click Join and you will be admitted to the meeting. To limit background noise, everyone's audio will be muted.

If you don't have a device to access the meeting via the link (Smart Phone, Tablet or iPad, PC) you can call in by telephone. See the phone number and PIN code below.

Denver Radio Club Virtual Meeting

When: Wednesday, April 15, Elmer session 1800-1845, Program 1900-end

Where: Hangouts Meet: <http://meet.google.com/biz-oyhc-uwp>

Recommend use of computer audio (headset/mic).

Questions can be asked via the Chat function in Hangouts.

Or join by phone: 912-421-0252 PIN: 393 233 332# (Please mute your phone by entering *6.)

Questions can be texted to 303-898-0586

The program will be presented by Jeff Ryan (K0RM). Jeff is the ARRL District Director for the Rocky Mountain District. (Colorado, Wyoming, Utah and New Mexico) you can see his information listed in QST magazine. Jeff will be telling us about the ARRL, Past, Present and Future. Jeff is a very good and entertaining speaker; you will enjoy what he has to say along with some PowerPoint slides.

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 Roundtable.

73 for now and please stay safe and well,

Gerry
W0GV
President



WHO'S NEW IN THE DRC?

By Bob Willson, KC0CZ

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 personally to make them feel welcome. Welcome to our newest members:

Georgene Harsh	Craig Touchton - W0DVL
Richard Harsh - N0TOE	Greg DeWit - N0JMH

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.

TECHNICAL COMMITTEE REPORT

By Bill Rinker, W6OAV

The following is an overview of current issues:

DRC/TSA Aurora Site

Goal: Work with the TSA relative to establishing a "communications room" for the DRC.

Status: The Board has reviewed the MOU received from the TSA. No commitment from the TSA.

Internet Access at Station 4

Goal: Obtain access to the Fire station Internet.

Requirements:

- 8 Mbps or faster.
- Global IP address.
- Static IP address for PC/Wires-X.
- UDP ports 46100, 46110, 46112, 46114, 46120 & 46122 forwarded to PC/Wires-X.
- TCP port 46190 open.
- Possible sandboxing required?

C4FM Repeater to Wires-X

Goal: If compatible Internet not available, is this a good alternative?

Status: Remote Wire-X node at a member's home (see figure below). (Ref: WIRES X – The Bible). Note: This mirrors our Echolink configuration.

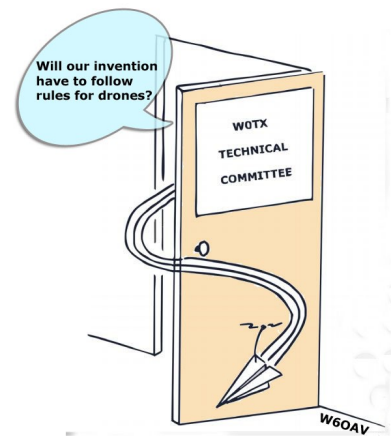
Replace 220 Repeater Antennas

Goal: Improve coverage for the new repeater.

Status: Schedule a work crew when weather permits.

Station 4 Remote Power Control.

Status: Shelve this item until we have internet access at Station 4



LEARNING NET REPORT

BY FRED HART, AA0JK

Our group gathers here to discuss, and respond to topics aimed at enhancing a better understanding of our hobby. The net is open to all and we encourage your participation.

March Topics:

- How to be a net control operator: <https://youtu.be/YZbLbllwotE>
- Five Easy Steps to Get Your Ham Radio License: <https://youtu.be/9mcVLxQUSak>
- Amateur Radio Satellites for Beginners, by Steve Ford, WB8IMY. ISBN:978-1-62595-130-4
[ARRL Item No.:1304](https://www.arrl.org/ARRL-Item-No-1304).
- <https://www.amsat.org/introduction-to-working-amateur-satellites/>
- Denver SKYWARN Training Calendar: https://www.weather.gov/bou/spot_training
SKYWARN Spotter Training - ALL TRAINING HAS NOW BEEN CANCELLED THROUGH APRIL 30TH
- Errata to 2020 – 2024 Amateur Extra-Class Question Pool Released 03/18/2020
<http://www.arrl.org/news/errata-to-2020-2024-amateur-extra-class-question-pool-released>

Great topics from our group. We certainly enjoy everyone's participation. Thanks to all. If you are listening and don't yet have your license, you can contact us via w0tx@w0tx.org or elmer@w0tx.org.

We are always looking for additional net control operators. If you would like to participate we can help you with the basics of becoming a net controller. This is a great opportunity to learn and get experience running a net.

Net controllers are always needed to perform Emergency Communications services. The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. <http://www.arrl.org/ares>. In the event of emergencies such as floods, fires, or other public service, the amateur radio community is always ready to help. If you have an interest in participating, when the need arises, learn and train now to be prepared. For additional information contact our EmComm Coordinator: Mike Vespoli (KE0HFH) at emcomm@w0tx.org.

If we don't have the answer here on the net, we have a lot of experienced hams in the club that can help.

Getting that first Technician license? Upgrading to General or Extra? We're here to help. We would encourage those who have been Hams for several years to also join us. Your experience and input is welcomed. What topics would you like to discuss? Join us Wednesday nights, 7:30 PM, 145.490, 100 Hz PL tone & linked to 448.625, 100 Hz PL tone.

(Note: The third Wednesday of the month is devoted to the DRC club meeting. Elmer Session: 6 PM, Main Meeting: 7 PM. See the [W0TX web site](http://www.w0tx.org) for additional information.)

73,

Fred
AA0JK



APRIL MEETING PRESENTATION

BY GERRY VILLHAUER, W0GV

Jeff Ryan (K0RM) will discuss the ARRL; how it is organized and how it operates.

Bio: Jeff Ryan is the ARRL Director for the Rocky Mountain Division. He has been an active member of the Colorado Amateur Radio community for over 20 years, serving in various ARRL volunteer positions including Emergency Coordinator, Colorado Section Manager and RM Division Vice-Director. He has also held leadership positions with local organizations including director of Pikes Peak Radio Amateur Assn, chair of Pikes Peak FM Association, vice chair of the Colorado Council of Amateur Radio Clubs and president of Rocky Mountain Ham Radio. He is also currently serving as co-chair of HamCon Colorado.



OUR NEW 220 MHZ REPEATER

ORIGINAL BY DAVE BAYSINGER, W0GN
EDITOR REPRINT OF NOTICE

The new 220 club repeater was installed at station #4. We are not changing the frequency, keeping 224.380 Mhz with a 1Z PL (100 hz). The repeater is now in "burn in" mode with emphasis on the "in", not the "burn". It sounds great.

The antenna is at the 50 ft. level of a 60 ft tower at West Metro Fire station #4 on West Alameda Avenue (at the base of Green Mountain). It is a 2-bay loop antenna aimed just south of downtown Denver, featuring a cardioid pattern with power to the North, South and East and a moderate null to the west, into the east face Green Mountain.

Try it out. Monitor the frequency. Tell the repeater you are monitoring. Enjoy a brand new band. Prove, as Dave and Gerry did, that Kenwood TH-F6 Talkies actually do work well on 220. Better still, call a friend with a 220 radio who hangs out on another channel and tell her/him to meet you on 224.38. You'll be glad you did, and put in a signal report on the Sunday evening net.

REMEMBER WHEN?

BY BILL RINKER, W6OAV

The purpose of this article is to bring back memories to old hams like me and to let newer hams know what ham radio was like in the 50's and 60's.

As a teenage ham, I will always remember the headline "AMATEURS LOOSE THE 11 METER HAM BAND". That headline appeared in 1958 announcing that the 11 meter ham band was being given to a new service called Citizens' Band Radio (CB). I, as well as many other hams, was devastated as I was a very active mobile station on that band. I still have my 11 meter ham band Hustler stinger coil! Many of us sent letters to the FCC stating that the service would never work as specified. For one reason, daytime skip had very little loss compared to the losses of ground wave. Consequently, daytime ground wave communications would be "drowned out" by the stronger sky wave. Secondly, did the FCC expect the users would not communicate via sky wave? As predicted by the

hams, daytime CB was useless during the day during the late 50's and early 60's. Since solar cycle 19 then was the strongest ever measured, 5 watt sky wave signals totally drowned out the weaker ground wave signals. And of course, CB operators couldn't resist working skip.

The history of CB is interesting. Many think that CB started in 1958 when the hams lost 11 meters. Actually, CB started in 1948! Al Gross (W8PAL) had earlier invented a small 2.5 pound Handy-Talkie (HT). See Figure 1. The HT measured 6"x3"x1.25" and had a folding antenna on the top. The HT used subminiature tubes in a super regeneration circuit. The 3 watt input transmitter produced an A3 30% modulated AM signal.

Al worked with the FCC to establish a 460 MHz to 470 MHz CB band and to get his HT approved. There were two classes of service established; Class A and Class B. Class A stations had to adhere to strict technical specifications and could run 50 watts on select portions of the band. Class B stations had to adhere to simpler technical specifications and could run 10 watts on a smaller portion of the band. Figure 2 shows a popular Class B transceiver. It had 3 tubes which operated as a superregenerative receiver or, when the PTT was depressed, became a 3 tube 2 AM watt transmitter.

The 460 MHz CB didn't really take off because of the high equipment cost, equipment inefficiencies and the spotty coverage of UHF. In 1958, communications companies convinced the FCC that they could build inexpensive efficient 27 MHz transceivers which would give better coverage compared to UHF coverage. They ignored the sky wave versus the ground wave conflict and the temptation to work skip. They foresaw the money to be made with this service. And, the rest is history.

Footnote: Al Gross was quite an inventor. He invented the HT for the military during WWII, the pager, cordless phones and many other inventions. His biography can be found at https://ethw.org/Al_Gross.



Figure 1 - Al Gross, W8PAL(SK), with his UHF HT



Figure 2 - JRC-400 465MHz 3 tube CB Transceiver

A WWII 500W MOBILE AM/CW TRANSMITTER

BY BILL RINKER, W6OAV

A 29 minute movie titled "Voice of Victory", produced in 1942 by Hallicrafters, shows how the Hallicrafters HT-4 amateur 500 watt HF AM/CW/MCW transmitter was modified to become the military's SCR-299 battlefield ready mobile HF transmitter (Figure 1). The SCR-299 weighed approximately 400 pounds! It was mounted in a large truck known as the SCR-399 (Figure 2). The SCR-399 contained the SCR-299, receivers, operating position and auxiliary equipment (Figure 3). It also pulled a large generator.

Hallicrafters enlisted hams for this project because of their communications knowledge, some of whom are shown in the movie. The movie shows what it took in those days to provide a reliable high power mobile HF transmitter

that would withstand the rigors of the battlefield.

Check out the movie at: https://www.youtube.com/watch?v=Jps0_2adUvo&feature=player_embedded.

Footnote: Some of you old military hams may recognize the SCR-299 as the BC-610 which was the post war version of the SCR-299. I modified one for SSB at the MARS station when I was stationed in Germany. It was quite a machine!



BC-729 Antenna Tuner

SCR-299

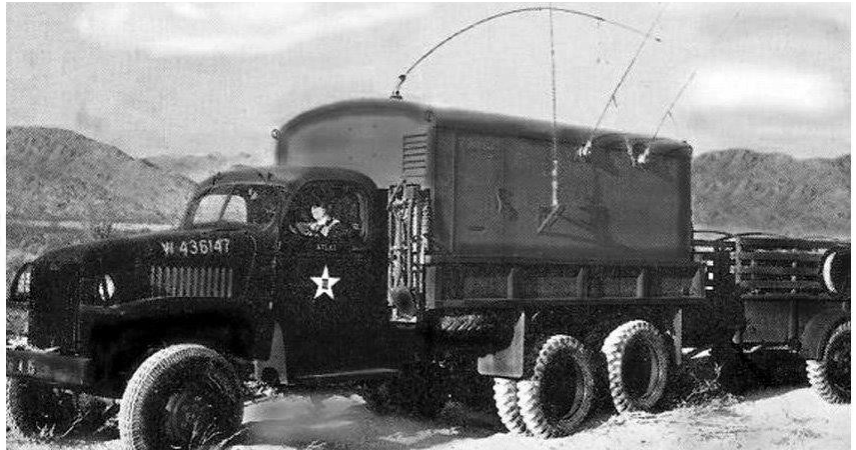


Figure 2 - The SCR 399 Mobile Unit With Trailing Power Generator

Figure 1 - SCR 299 Transmitter

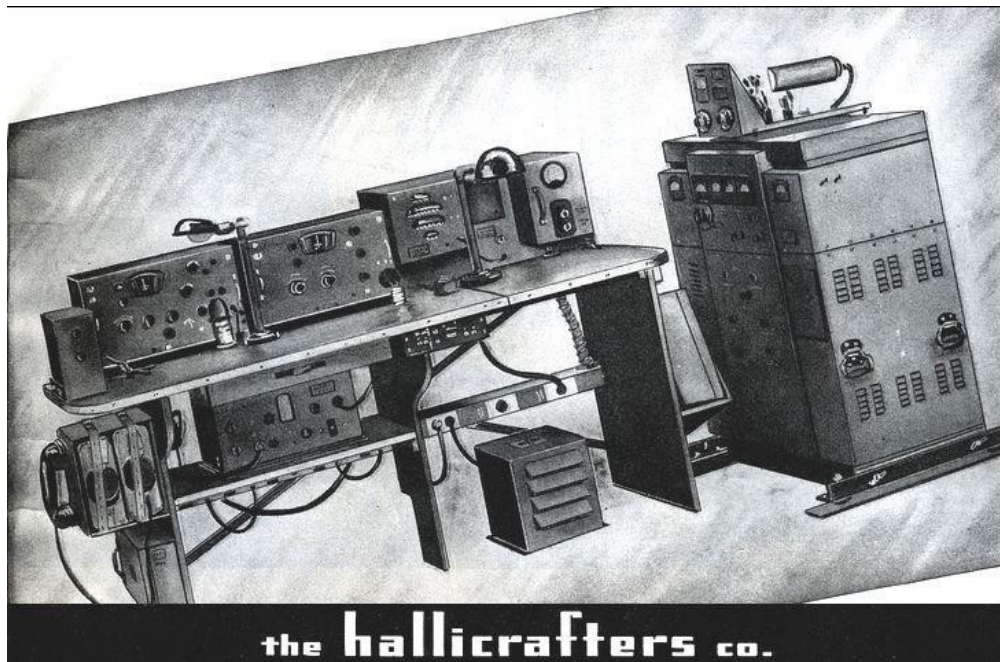
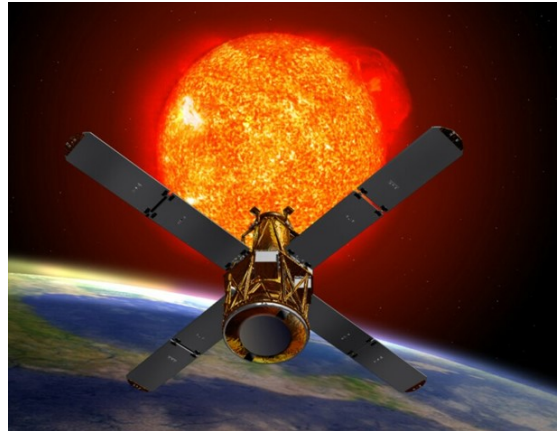


Figure 3 - SCR-399 interior from Hallicrafters ad, 1942

SOLAR GEOPHYSICAL ACTIVITY REPORT

PROVIDED BY FRED HART, AA0JK



March starts off with a spotless Sun, 28 days and counting.

The Sun was patchy, with shifting coronal holes in the central heliographic longitude area, while bright areas were entering at the top of the east limb.

These bright areas did not appear to have any sunspot activity beneath the surface, and fairly slow moving evolution was keeping them confined in the corona.

The longest stretch of blank Suns in modern history was 92 days, a record set during the Solar Minimum of 1913.

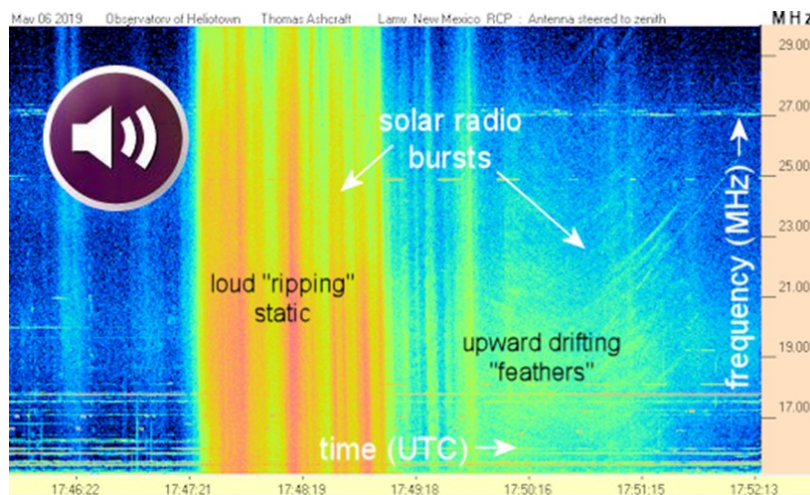
Sunday, March 8th, 2020 - A NEW SUNSPOT: Breaking a string of 34 spotless days, a new sunspot was emerging in the Sun's southern hemisphere.

First spotted region to form in over a month. Assigned region 2758, and belongs to Cycle 25. Located in southeast quadrant.

The high latitude, and magnetic polarity of the sunspot, identify it as a likely member of new Solar Cycle 25.

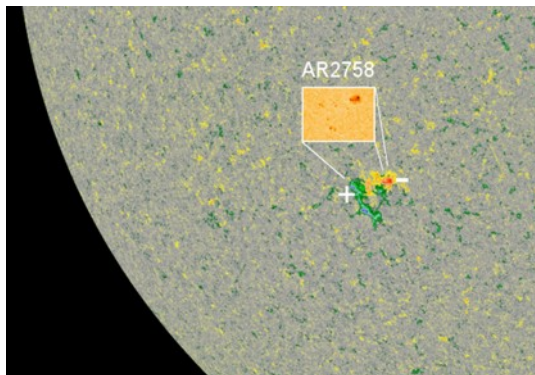
Thursday, March 19th - The vernal equinox, when the Sun crossed the celestial equator as it moves north, occurred at 11:50 P.M. EDT. This event marked the beginning of spring in the Northern Hemisphere, which will last until the summer solstice on June 20.

Solar radio bursts.



Solar, space weather quiet? For some maybe, but don't tell the shortwave listener. During periods of high solar activity, the Sun emits broadband bursts of radio energy. Many shortwave radio operators have been surprised by a roar of static in their headphones after a strong solar flare.

AR2758 continues a trend of increasing Solar Cycle 25 activity. So far this year, there have been 4 numbered sunspots. Three of them, (75%), have been from Solar Cycle 25. Solar Cycle 25 is still weak, but it is coming.



Magnetic image courtesy of SDO/HMI. The sunspot is inset in this magnetic map of the sun's surface from NASA's Solar Dynamics Observatory:

Forecast:

Predicted solar flux for the next 45 days is 72.

Predicted planetary A index is 8.

We have been looking forward to the vernal equinox, which occurred, March 20.

This is a favorable time for HF propagation, with both the northern and southern hemispheres receiving approximately equal amounts of solar radiation.

Report of Solar-Geophysical Activity

Prepared jointly by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center. UPDATED 2020 March 20 1230 UTC.

24 hr Summary:

Solar activity was very low. No Earth-directed CMEs were observed in available coronagraph imagery.

Forecast:

Very low solar activity is expected to continue thru March.

Solar-Terrestrial Data - http://www.n0nbh.com													
19 Mar 2020 1929 GMT		VHF Conditions			HF Conditions			Condition		K-In	A-In		
SFI	73	SN	0	Item	Status	Band	Day	Night	Quiet	0-2	0-7		
A	6	K	1	Aurora	Band Closed	80m-40m	Fair	Good	Unsettled	3	8-15		
X-Ray	n/a			6m EsEU	Band Closed	30m-20m	Fair	Fair	Active	4	16-29		
304A	93.5 @ SEM			4m EsEU	Band Closed	17m-15m	Poor	Poor	Minor storm	5	30-49		
Ptn Flx	No Rpt			2m EsEU	Band Closed	12m-10m	Poor	Poor	Major storm	6	50-99		
Elc Flx	No Rpt			2m EsNA	Band Closed	Geomag Field		VR QUIET	Severe storm	7-9	>100		
Aurora	/n=			EME Deg	Poor	Sig Noise Lvl		S0-S1	SFI A-In	K-In	Prop Opng		
Aur Lat	No Report			MUF	ES - SEASON BREAK	MUF US Boulder		NoRpt	>180	<8	<3	E-W open	
Bz	-4.2	SW	416.6	MS	0 MIN 6 12 18 UTC MAX	Solar Flare Prb		1%	>180	<8	>3	N-S open	
										>250	>30	>3	Aurora

73,

Fred
AA0JK

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](#)



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You shop. Amazon gives.

Search for Denver Radio Club @ smile.amazon.com

Note to DRC Members:

Our club depends on the involvement and participation of YOU, our members. Do you have a skill or interest that could help the club. Maybe you want to volunteer to be on a committee? Like to write? Have ideas for improving what we do? Speak up and let someone know, all ideas are welcomed and participation is always helpful. ~Editor

RANDOM SITE OF THE MONTH
[QSO Party Calendar](#)

THE ROUNDTABLE ARCHIVE

Go to: <http://www.wotx.org/roundtables.htm>

THE ROUNDTABLE ARTICLE INDEX

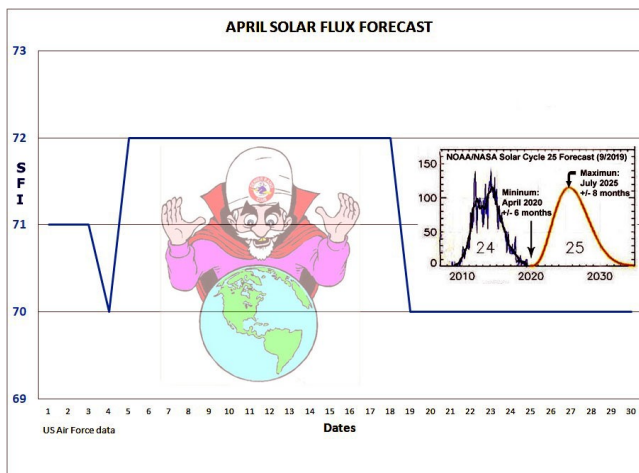
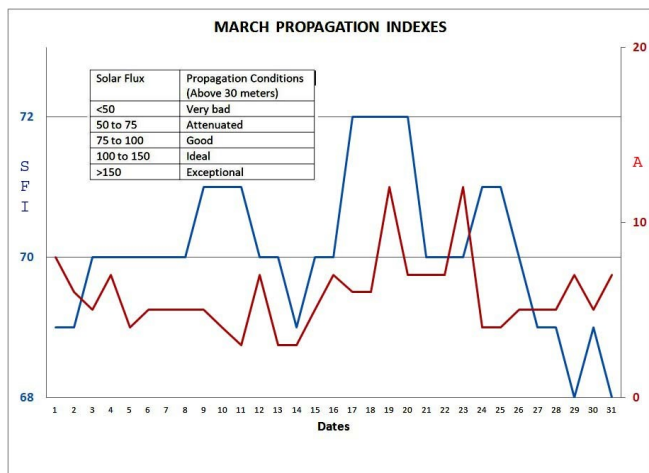
Go to: <http://www.w0tx.org/RoundtableArchive/-RoundTables-Index.pdf>

PAST & FUTURE PROPAGATION CONDITIONS

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 *Roundtable* for more complete information on interpreting these charts, which is available at: [http://www.w0tx.org/RoundtableArchive/2010-RoundTables/RT201009\(SEP\).pdf](http://www.w0tx.org/RoundtableArchive/2010-RoundTables/RT201009(SEP).pdf)



UPCOMING EVENTS
HAMFESTS & CONVENTIONS

Event	Date	Location	Sponsor Website
LARCFest 2020	4/4/20	Boulder County Fairgrounds Exhibit Bldg (Event Postponed)	

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
Louisiana	04/04/2020	04/05/2020	Louisiana Contest Club	
Mississippi	04/04/2020	04/05/2020	ARRL Mississippi Section	
Missouri	04/04/2020	04/05/2020	Boeing Employees' Amateur Radio Society – St. Louis	
Georgia	04/11/2020	04/12/2020	Georgia QSO Party	
New Mexico	04/11/2020	04/12/2020	Valencia County Amateur Radio Association	
North Dakota	04/11/2020	04/12/2020	ARRL ND Section Manager	
Michigan	04/18/2020	04/19/2020	Michigan QSO Party	
Ontario	04/18/2020	04/19/2020	Contest Club Ontario	
Florida	04/25/2020	04/26/2020	Florida QSO Party	

ATTENTION

SUPPORT THE DRC FROM YOUR AMAZON PURCHASES

You can now support your Denver Radio Club when you make purchases from Amazon.com. Amazon Smile donates 0.5% of your purchase to the non-profit (501.c.3) organization of your choice. This is at no additional cost to you. To support the DRC just visit smileamazon.com. Select Denver Radio Club, Inc. as the organization you want to support and proceed with your order as usual. Amazon Smile will credit the DRC automatically. Thank you for your support.

DRC REPEATERS

BAND	Freq / Shift / PL Tone	Additional Information
6m	53.090MHz (-1MHz) 107.2Hz PL	
Packet	145.05MHz<>14.105MHz	2m / 20m gateway. Useable by Technicians on 2m.
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.
70cm	446.7875MHz (-)	BrandMeister Repeater: Slot 1 – Wide Area Traffic, Slot 2 – Local Talk Group 310804



HRO 12 STORE BUYING POWER WORKS FOR YOU!!







www.hamradio.com

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303-745-7373 800-444-9476

24 HOUR FAX 303-745-7394

e-mail: denver@hamradio.com

APRIL 2020							<i>DRC Net Sundays at 8:30 p.m. on 145.490 / 448.625 (no PL)</i>
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
			1 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)   First Quarter	2	3	4	
5	6	7	8 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)  Full Moon	9	10	11	
12	13	14	15 DRC ONLINE Meeting Elmer 6 p.m. Meeting 7 p.m. (See President's Mes- sage for meeting de- tails.)  Last Quarter	16	17	18	
19 Rookie Roundup - Phone 1800 - 2359 UTC	20	21	22 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)  New Moon	23	24	25	
26	27	28	29 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)	30			
				 First Quarter			

DRC BOARD OF DIRECTORS

President	W0GV	Gerry Villhauer	303-467-0223	w0gv@hotmail.com
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Board Member	WG0N	Dave Baysinger	303-987-0246	wg0n@arrl.net
Board Member	KB0CHT	Jeff Irvin	Check Roster	Check Roster

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Tech. Committee Chair	W6OAV	Bill Rinker	Check Roster	Check Roster
Trustee	WW0LF	Orlen Wolf	303-279-6264	owolf@mines.edu
VE Team	KC2CAG	Tom Kocialski	720-284-1911	kc2cag@arrl.net
Website & YouTube	N0LAJ	Bill Hester	Check Roster	w0tx@w0tx.org

Please Let Us Know

Over the years we occasionally hear from hams who have read the RoundTable 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 RoundTable RoundWorld.

To respond to this request send your information to drc.editor@gmail.com.

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 drc.editor@gmail.com. The submission deadline is the 25th of the Month. ~ Editor

Sunday August 16st - Jefferson County Fairgrounds

DENVER HAMFEST

Denver Radio Club, WØTX 2020



Since 1917

**DEALERS FLEA MARKET PRIZES
FORUMS FCC EXAMS FOOD INDOORS**

More Tables & Less Crowding

Admission: \$6 (Children under 13 free w/adult)
Tables: Advance Purchase: \$12 (Paid by Aug 12)
At the Door \$16

Hourly Door Prizes - Main Drawing at Noon
(Must be present to win)

Doors Open: 8:30 AM - 1:00 PM
License Testing/VE Exams at 10 AM
(Vendor Set-Up Starts at 7:15 AM)

Talk-In: 145.490-/448.625- PL 100.0Hz
GPS: Lat 39d 43' 19"N Lon 105d 10' 15"W

Handicapped Parking & Access Available

WWW.WØTX.ORG



Jefferson County Fairgrounds
15200 West 6th Avenue Golden, CO

For more info visit our website or contact:
Cathy Vilhauer, N0CRZ 303-467-0223 E-Mail: drcfest@wøtx.org

Advance Table Reservation Form

Make checks payable to: Denver Radio Club, do not mail cash!

Payment is required with reservation and must be received by August 16, 2020 to obtain the \$12 per table advance registration price

AC Power is limited, available on a FCFS basis. Reservation confirmations will be emailed. Vendor badges & tickets will be provided at the Hamfest. Tables must be claimed by 8:30 AM or they will be subject to resale - no refunds

Save the upper portion of this flyer for your records

Name: _____ Call: _____

Org: _____ Phone: _____ Email: _____

of Tables _____ @ \$12.00 each = _____

of Vendor Admissions _____ @ \$6.00 each = _____

AC Power: yes no Total Enclosed : _____

Special Requests: _____

Please mail all reservations to: Denver Radio Club, 6511 W 74th Ave., Westminster CO 80003

DENVER HAMFEST
Denver Radio Club 2020
August 16th

Early Bird Discount Registration is Available Now! at
<http://www.hamconcolorado.com>

HAMCON COLORADO 2020 ROCKY MOUNTAIN DIVISION

MARK THESE DATES ON YOUR CALENDAR!

August 7 - 9, 2020

FRIDAY *Separate Event* - DX University 8AM – 5PM \$50 includes Lunch

ALL DAY SATURDAY & SUNDAY Many engaging technical sessions & forums Numerous club, organization and manufacturer exhibits!

MEALS MUST BE PURCHASED IN ADVANCE TO HEAR THE SPEAKERS

Booked so far are Riley Hollingsworth K4ZDH & Rick Roderick K5UR

SATURDAY

- ◆ Kickoff Breakfast with speaker (TBA)
- ◆ Afternoon Delicatessen Buffet with a nationally known Speaker (TBA)
- ◆ Evening Meet and Greet Buffet with ARRL Officials and a Keynote Speaker
- ◆ Midnight Wouff Hong Ceremony (Details TBA)

SUNDAY

- ◆ Breakfast with a nationally known Speaker (TBA)
- ◆ BBQ lunch with a nationally known Speaker (TBA)

MORE FOR YOU!

- ◆ Show your CW skills and coordination in a QLF (Details TBA)
- ◆ Show your skills in a challenging CW Pileup Contest (Details TBA)
- ◆ Operate W1AW/Ø – HF/VHF/UHF All modes including Digital on fantastic hardware
- ◆ Hourly prize giveaways
- ◆ Hospitality Suite sponsored by Mile High DX Association and Grand Mesa Contesters of Colorado



CU Denver South - 10035 S Peoria St. - Parker, CO