



THE ROUND TABLE

Monthly Newsletter Of The Denver Radio Club

Since 1917

May 2021

PRESIDENT'S MESSAGE

BY GERRY VILLHAUER, W0GV

Hello DRC Members,

I hope you all are staying safe and healthy. It looks like good weather is coming soon. As I write this, rain is expected today. I'll sure take the rain over snow...enough snow for this year!

We are still hoping to have Field Day. In fact, we have a possible alternate site that is being investigated. Any progress will be promptly announced on our Sunday and Wednesday evening nets and the DRC website.

Congratulations to our meeting night drawing winner, Robert Mesenbrink (NB0BN). He received a \$25 HRO gift certificate.

Thanks to John (W6NBC) for a very well received program on Slot Antennas. I have heard several discussions on the airwaves about his very interesting and informative program. You will see in the next paragraph, a video from John, will be part of our May program.

Our May program will be presented by Bill Rinker (W6OAV). Do you live in a covenant-controlled area and wish to put up a stealth compact but efficient HF attic antenna? Don't have room in your yard for a full-sized HF antenna? If so, plan to attend the DRC May 19th Google Meet session. Bill, W6OAV, will discuss his successful experiences with various compact HF attic antennas. Then a video titled "Jumbo Loading Coil for Concealed Attic Dipoles", produced by John, W6NBC, will follow. John describes a very effective and unique compact HF attic antenna built around a "Super Coil". His discussion will also include a bit of antenna theory relative to shortened antennas.

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



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 welcome them to the club and repeaters. Welcome to our newest members:

Chris Miner - KE0KCG	Bradley Parsons - KF0EWW
Russell Irwin Stone - K0STR	David DiGiacomo - KE0DJK
Steven Hlibichuk - W0ARK	Lyle Strachan - KE0ZNV
Mark Strachan - KD6IQW	-

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

All projects are on hold due to the virus and the weather. However, the tech committee members are discussing possible projects for the upcoming year.

The following is an overview of current issues for the Tech Committee.

DRC/TSA Aurora Site.

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

Status: This project shelved until Covid-19 is over.

Replace 220 Repeater Antennas

Goal: Improve coverage for the repeater.

Status: WW0LF is constructing the coax harness. Once completed, a work party will be scheduled.

Install a Remote 6 Meter Receiver

Goal: Investigate the possibility a remote receiver to resolve the high noise level at Station 4.

Status: WG0N and W0GV will check out conditions at a possible site.

LEARNING NET REPORT

By FRED HART, AA0JK

Purpose:

We are here to help introduce, and promote, a variety of topics of interest to all amateur radio operators.

Our intent is to help participants get more active, involved, and engaged in amateur radio.

Topics of interest we encourage:

Personal Communications

-Getting started in the various modes, of communications.

Emergency communications

- Participation in public service.
- Training in emergency communication for volunteers.

Radio electronics, and technology

- Kit building, understanding signal propagation. and building antennas.

We strive to put experienced members / volunteers, at the forefront, as a regular source of knowledge-sharing in the Denver Radio Club. We hope members participating in the DRC learning net will find it rewarding to share experiences, and learning, that will motivate more of our amateur radio community toward lifelong journeys as Hams.

If you have experience in, and have a passion for, any amateur radio related topics, please consider providing the DRC with presentations that will motivate other Hams to share your interests.

April Topics we have discussed:

- Amateur Radio - Full Version - YouTube
- Small Antennas for Small Spaces
 - Advice for Limited space stations
 - Steve Ford WB8IMY. ARRL Item #0512
- Learning Morse Code
 - Morse Code Operating for Amateur Radio
 - ARRL Item #0004
- Voyager One, interstellar space communication, QRP, 23 watts. voyager.jpl.nasa.gov
- Dipole antenna placement for best performance
- SKYWARN Storm Spotter training.
weather.gov/SKYWARN and http://http://weather.gov/bou/spot_training
- Planning for Field Day. arrl.org/field-day
- Sources for electronic parts
 - mouser.com
 - digkey.com
 - allelectronics.com
- Severe weather siren Tests
- Six meter antennas
- Six meter activity, WØTX local repeater
- DX Spotter Links
- Noise Filters
- On The Air ; ARRL magazine March / April issue
- Tape measure Yagi for Fox Hunting
- Introduction to Antenna Basics, Karen Rucker, (Hackaday.IO). youtu.be/dMUyRPdZK5w
- Note: ARRL's Basic Antennas - An introduction to antennas, basic concepts, practical designs, and easy-to-build antennas! Item No. 9994
- ARRL exam Fees vs Patriot / Laurel's free VEC exams.
- Attic Trap-dipole antenna -HF Trap Antennas (arrl.org)

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 at the [W0TX web-site](http://W0TX_web-site), w0tx@w0tx.org, or elmer@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. You may also find Dave Casler's Amateur Radio Licensing Guides helpful: <https://dcasler.com/ham->

[radio/](#)

We would encourage those who have been Hams for several years to also join us. Your experience and input is welcomed.

Finding your place in the amateur radio community - -> Are you looking to be more involved, learn new skills, find a mentor or friends to share your amateur radio interest? Check out your local Denver Radio Club, and start making the most of your amateur radio license.



arrl.org/public-service

Use your communication skills to help keep your community safe!



weather.gov/marine/ham

warrenares.org/home/skywarn-weather-spotting

SKYWARN Spotter Training Updates: weather.gov/bou/spot_training



During severe weather events, amateur radio operators bring significant resources to storm spotting, including an established communications system that can function in an emergency. They provide real-time information to partners like emergency management and forecasters at the national weather service. The data received from hams helps issue weather watches, warnings, and advisories.

What topics would you like to discuss? Join us Wednesday nights, 7:30 PM, 145.490, 100 Hz PL tone & linked to 448.625, 100Hz PL tone.

73,

Fred
AA0JK
elmer@w0tx.org

MAY PRESENTATION ANNOUNCEMENT

BY BILL RINKER, W6OAV

Live in a covenant controlled area and wish to put up a stealth compact but efficient HF attic antenna? Don't have room in your yard for a full sized HF antenna? If so, plan to attend the DRC May 19th Google Meet session. Bill, W6OAV, will discuss his successful experiences with various compact HF attic antennas. Then a video titled "Jumbo Loading Coil for Concealed Attic Dipoles", produced by John, W6NBC, will follow. John describes a very effective and unique compact HF attic antenna built around a "Super Coil". His discussion will also include a bit of antenna theory relative to shortened antennas.



COLORADO SEVERE WEATHER AWARENESS SEASON IS HERE

PROVIDED BY FRED HART, AA0JK

Compiled from:

denver.cbslocal.com/2021/04/13/colorado-severe-weather-awareness-week-tornadoes
weather.gov/bou/severe_wx_awareness
weather.gov/gld/ColoradoSevereWeatherAwarenessWeek



When you talk about the weather in Colorado most people will probably mention snow. But believe it or not, tornadoes are actually very common too.

Colorado averages 53 tornadoes annually and they are most common in Weld County. In fact Weld County records more tornadoes on average than any other county in the United States.

A tornado can occur at any hour of the day in Colorado but they are most common between 1 pm and 8 pm. Most Colorado tornadoes are



weak and short-lived but every so often we'll see a large tornado.



On May 22, 2008, a rare EF-3 tornado touched down in northern Colorado and traveled for 39 miles. It injured 78 people and killed one person. The storm was very unusual for many reasons, including the time of day it happened and its size. The at times, one mile wide tornado, touched down before noon, and it traveled in a northwest direction.



NWS Boulder/Denver SKYWARN (weather.gov)

The National Weather Service wants everyone to be part of a Weather-Ready Nation. Colorado is an annual host for tornadoes, flash floods, tornadoes, damaging hail, killer lightning and wind damage. Are you weather-ready? Now is the time to make sure you know how to stay safe when severe weather threatens.

Anytime the threat for severe weather exists, stay updated on the latest weather information by going to the National Weather Service Website, weather.gov, by tuning in to NOAA Weather Radio

Each year, for the past 20 years, there has been an average of 50 tornadoes in Colorado. On average, three people have been killed by lightning and another 13 people have been injured by lightning. Some of the biggest insurance losses each year are due to large hail.





Set An Example, Be Prepared

Before severe weather strikes, develop a plan of action. Identify a place for you and your family to take shelter in the event of severe weather. Once you have a plan of action, conduct frequent drills to ensure everyone knows what to do at all times. Make sure you have plans for severe weather when you are at home, work, school, or outdoors.

In the event of severe weather in the metro area, please monitor our repeaters on 145.490/448.625 (primary) and 449.350 (secondary). Listen and Follow the Instructions of the Emergency Net Control Operator.

SKYWARN Spotter Training Updates (weather.gov)

Anyone who needs information on severe storms in Colorado should contact their nearest National Weather Service office: weather.gov/boulder, 303-494-4221.

73,

Fred
AA0JK

SIREN TESTS

BY BRENNAN PATE, AD0UZ

Apropos of Fred's tidbit above, we are at this point, on for the Lakewood and Wheat Ridge siren tests.

Lakewood: 5/26 (Wednesday), 11 AM
Wheat Ridge: 6/9 (Wednesday), 11 AM

As usual, if you have helped with siren tests in the past, please contact Jim (K0TOR, 303-798-2351, k0tor@arrl.net) to let him know of your availability and preferences. We will try to get you on the same site(s) you worked last time. If we don't hear from you in the next few weeks we'll likely give you a call to nag you into helping.

For those who have not helped in the past, we help the Lakewood and Wheat Ridge Emergency Manager with the emergency siren tests. We have at least one ham at each site who provides observations to net control about the siren, site and test. The data is aggregated and forwarded to the Emergency Manager.

It's a great opportunity to use and hone your radio skills while helping your community. If you are interested but a little hesitant to volunteer, please let us know and we can assign you to a site with another experienced ham. They'll be happy to show you the ropes.

Compensation is in the form of refreshments after each test. You do not have to partake. Naturally, this year may be a little different due to the public's concern about covid. Please be forewarned that due to the latter, this year it may not be pizza... I can hear the cries of despair...

More information forthcoming. Let us know if you're interested!



CELEBRATING 10 YEAR OF SUMMITS ON THE AIR IN COLORADO

By BOB WITTE, K0NR

The Summits On The Air (SOTA) program originated in the United Kingdom but has propagated to most countries around the world. The program came to Colorado on May 1st, 2010 with Steve/WGØAT sending a CQ from Mount Herman, just west of Monument. Today, the SOTA program in Colorado (called WØC-SOTA) is very active with roughly 180 activators that operate from Colorado summits.

To celebrate our 10th Anniversary, [WØC-SOTA](#) is organizing a **10-10-10 Event** with a challenge for Activators and Chasers alike. (Activators operate from summits, Chasers try to contact them.)

Activator challenge: Activate **10** (or more) **10K** feet (or higher) summits (in Colorado/WØC) within **10 days**.

Chaser challenge: Chase Activators on **10 different** (or more) qualifying WØC summits (**10K** or higher) within the **10 days**.

Event Date: We will kick-off the event in conjunction with the [Colorado 14er event](#) on August 7th, 2021 and conclude on August 16th.

Everybody is invited to participate, either as an Activator or a Chaser. Block off these days in your calendar now and start planning for how you can participate. Feel free to operate as much or as little as you would like. It is all about having fun messing around with radios. Any HF, VHF or UHF band can be

used for making SOTA contacts, with the most popular ones being 40m (CW & SSB), 20m (CW & SSB) and 2m (FM).

There will be a leaderboard on the [W0C-SOTA](#) website showing all participants who meet one of the challenges. More details will be announced on the [W0C-SOTA Website](#) as soon as they are hashed out.

For more information on the SOTA program in general, see the [worldwide SOTA website](#).

Full Disclosure: May 1 is actually the 11th Anniversary, but the COVID-19 Pandemic interfered in 2020, so we are catching up.



Figure: Steve/WGØAT operates HF phone from a SOTA summit in Colorado.

PSCN POSITION OPENINGS

PROVIDED BY JEFF IRVIN, KB0CHT

FYI: The PCSN has posted the following positions:

Denver-Spec II (Telecommunications Specialist)

governmentjobs.com/careers/colorado/jobs/3041715/telecommunications-specialist-public-safety-communications-network

Denver-Spec III (Sr. Telecommunications Specialist)

governmentjobs.com/careers/colorado/jobs/3041750/senior-telecommunications-specialist-public-safety-communications-network

Limon-Spec IV (Supervisor, Public Safety Telecommunications) Non-Classified

governmentjobs.com/careers/colorado/jobs/3041771/supervisor-public-safety-telecommunications-limon-co



COLORADO

Governor's Office of Information Technology

Serving people serving Colorado

A HAM SITE WORTH VISITING

By BILL RINKER, W6OAV

John, K3NXU, started and maintains the Miklor website which is a website well worth visiting. The website contains a wealth of information ranging from reviews and comparisons of many analog/DMR radios, base/HT antennas, cables and software. The website also contains many technical and DIY project articles as well as links to many other related websites. Visit Miklor at miklor.com



THE HISTORY OF TRANSISTORS

By BILL RINKER, W6OAV

Interesting in learning all about the history of the development of the transistor? If so, visit the "Transistor Museum" website. This website contains hundreds of pages of written history, oral histories, developer's biographies, photo galleries, research articles, construction projects and much more. The website can be accessed at semiconductormuseum.com/Museum_Index.htm.

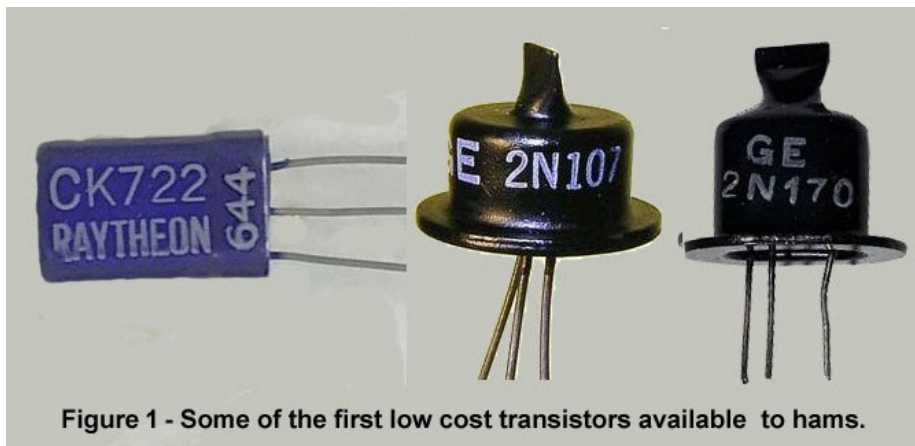


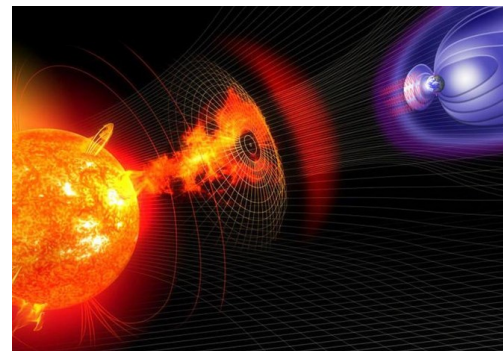
Figure 1 - Some of the first low cost transistors available to hams.

SOLAR GEOPHYSICAL ACTIVITY REPORT

Provided by FRED HART, AA0JK

Geophysical conditions were quiet. Earth facing coronal holes were sending their enhanced plasma streams our way as we passed thru equatorial longitude. Dark plasma filaments erupted, and the whipping action components were facing earth. The ejecta was expected to produce an earth directed glancing blow.

Sunday, April 4th - A new sunspot was breaking a string of 4 spotless days, a new sunspot was emerging in the sun's northern hemisphere. The sunspot's magnetic polarity identified it as a member of new Solar Cycle 25.

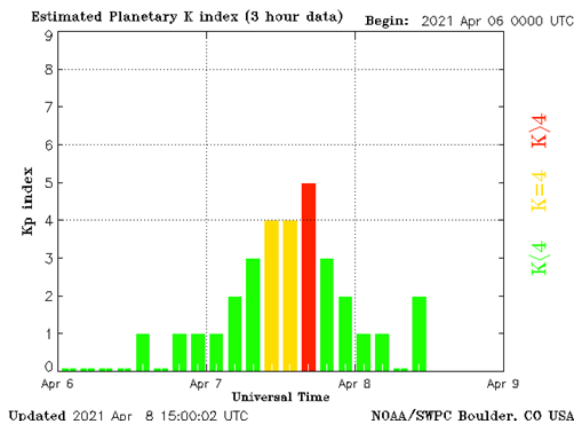


April 5th - The sun was quiet, except for one location near the sun's southwestern limb. There, a beautiful prominence was rising into space.

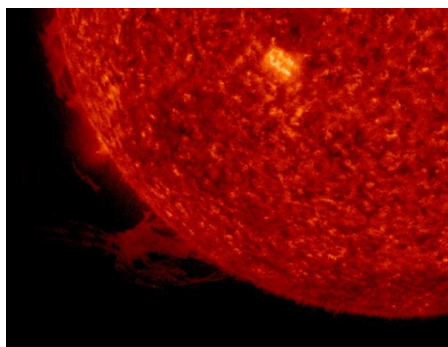


A Prominence is a cloud of plasma held up by solar magnetic fields. The magnetic infrastructure of this one was unstable. Amateur images submitted, showed it twisting sharply at the base. It could have potentially twist off completely.

April 8th - A geomagnetic storm hit Earth's magnetic field on April 7th. The solar wind stream sparked a minor G1-class geomagnetic storm. Thursday the 8th, as Earth was exiting the stream, the storm subsided.



Tuesday, April 13th - New sunspot, sunspot AR2814 had doubled in size since it first appeared in the sun's southern hemisphere. The active region was crackling with minor B-class solar flares and posed a growing threat for stronger C-class eruptions.

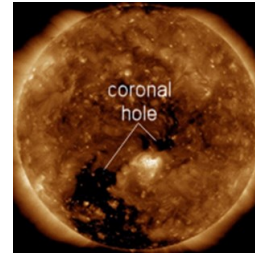
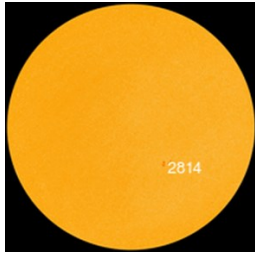


A solar tornado spins off the Sun. April 12th, NASA's Solar Dynamics Observatory watched a towering cloud of plasma spin up, and off, the surface of the sun. The tornado was 10 times taller than Earth itself.

Unlike tornadoes on Earth, which are shaped by wind, tornadoes on the sun are controlled by magnetism. Solar magnetic fields twist in a furious spiral, dragging clouds of plasma around with them. The April 12th twister over-

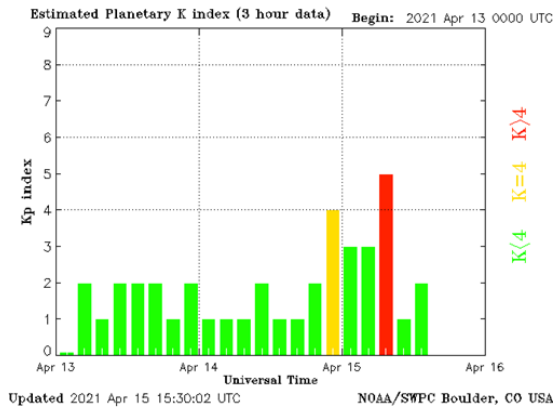
torqued itself and hurled a cloud of magnetized gas into space.

April 14th - Sunspot AR2814 posed a slight threat for C-class solar flares. Below Left Image Credit: SDO/HMI

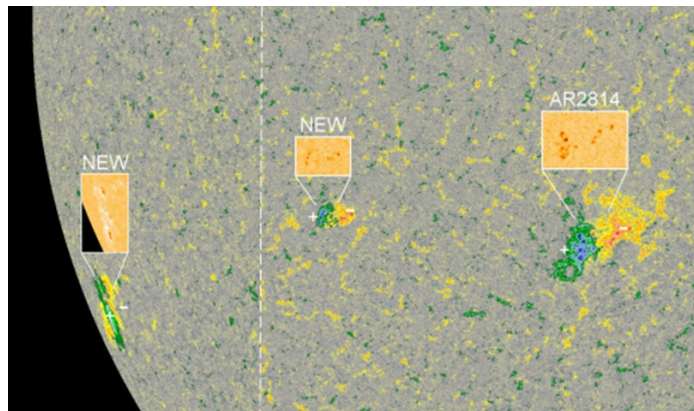


Solar wind flowing from this southern coronal hole was expected to reach Earth on April 16-17 Upper Right Credit: SDO/AIA.

Chance of storms. Minor G1-class geomagnetic storms were possible on April 16th when a high-speed stream of solar wind was expected to reach Earth. The gaseous material was flowing from a southern hole in the sun's atmosphere.



Unexpected geomagnetic storm. A minor G1-class geomagnetic storm occurred during the early hours of April 15th when a crack opened in Earth's magnetic field. Solar wind rushed through the gap to fuel the disturbance. Southern sunspot activity. The sun's southern hemisphere was showing signs of life. Three sunspots were growing there. Their dark cores were inset in this surface magnetogram from NASA's Solar Dynamics Observatory:

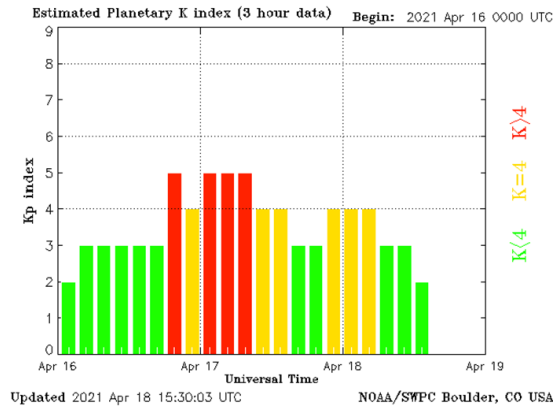


The +/- magnetic polarity of all three spots marked them as members of new Solar Cycle 25. The young solar cycle has been struggling to produce sunspots, so three at once is a notable uptick in activity. If their growth continues apace, the two new sunspots will likely receive official designations AR2815 and AR2816.

April 15th - The sun revealed the size of the southern coronal hole. The south was definitely more active than the north as we start the new cycle 25, which means probably a double peak cycle as we watch a filament dance on

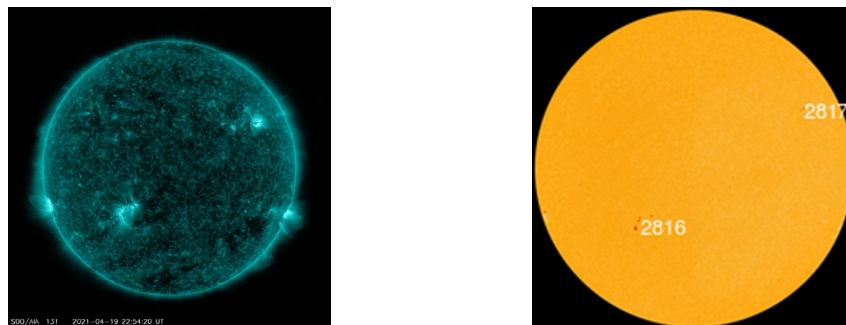
the limb. The top space weather story of the day occurred when a plasma stream connetics flipped, driving a geo-magnetic storm without a CME or coronal hole impact. It was minor, but it's critical to see these heliopheric current sheets impact, as they can pack a punch almost on their own when they hit earth every seven to ten days.

April 18th - Passing through Heliopheric sheet

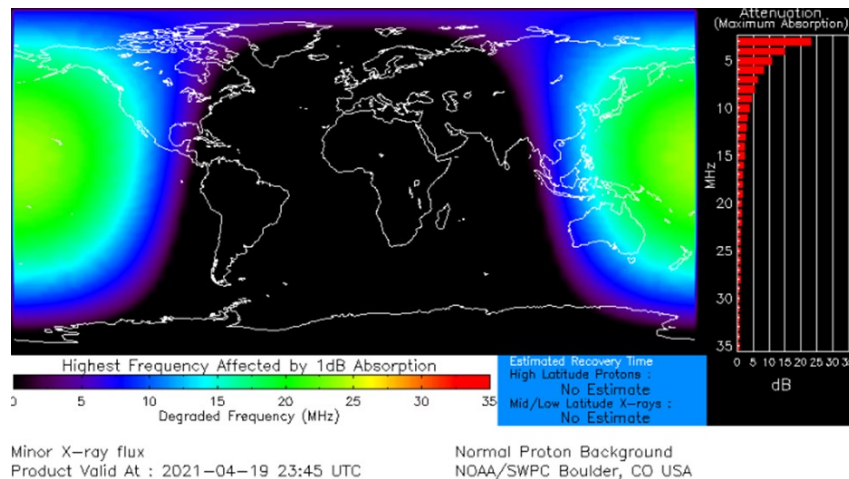


April 20th - M-CLASS SOLAR FLARE. Sunspot AR2816 erupted during the late hours of April 19th (2342 UT), producing a strong M1-class solar flare. NASA's Solar Dynamics Observatory recorded the extreme ultraviolet flash.

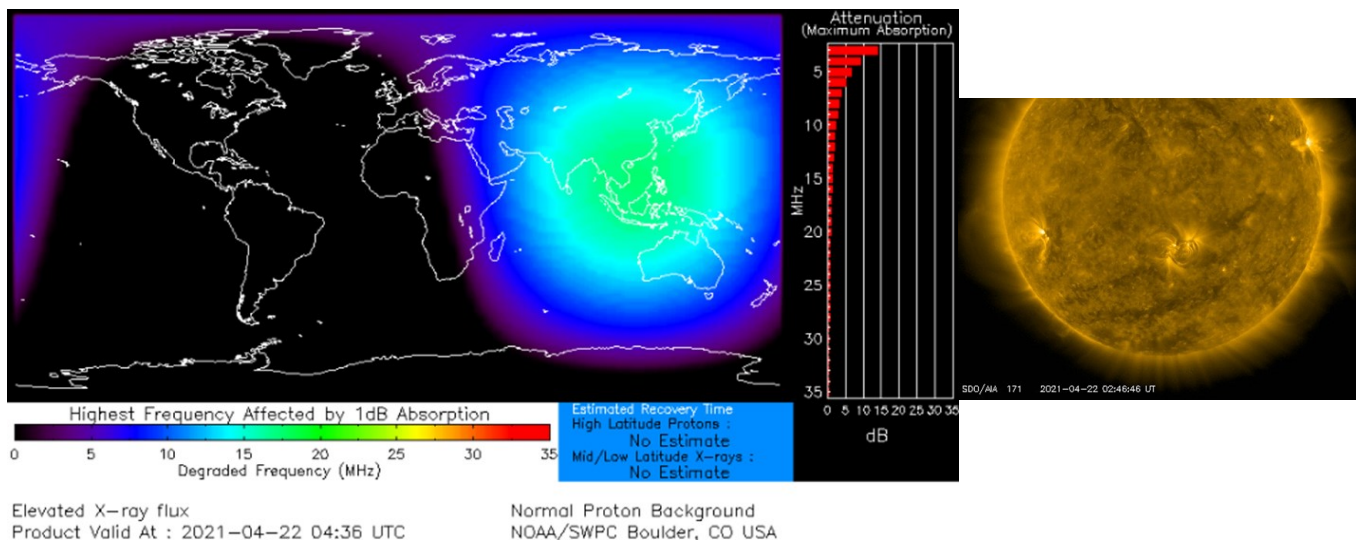
Shock waves from the solar flare rippled through the sun's atmosphere, creating plasma instabilities and natural radio emissions. NOAA reported the detection of Type II and Type IV bursts. These radio bursts may have penetrated the blackout, causing roars of static in the loudspeakers of shortwave radios. Below Images Credit: SDO/HMI.



This is one of the strongest flares of young Solar Cycle 25. A pulse of X-rays and ultraviolet radiation from this flare ionized the top of Earth's atmosphere, causing a shortwave radio blackout over the Pacific Ocean. Mariners and ham radio operators in the area might have noticed unusual propagation conditions at frequencies below 10 MHz.



There was a chance that the explosion also hurled a coronal mass ejection (CME) toward Earth. It was expected to arrive April 22nd or 23rd.



April 22 - Radio blackout over south-east Asia

Earth-directed solar flare. Sunspot AR2816 had produced another solar flare, this time a C3.8 class eruption on April 22nd (0435 UT). A pulse of X-rays and UV radiation ionized the top of Earth's atmosphere, producing a minor shortwave radio blackout over south-east Asia. NASA's Solar Dynamics Observatory recorded a shock wave rippling away from the blast site; this suggests a CME was heading our way.

Solar Activity Forecast (Prepared jointly by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center and the U.S. Air Force.): Solar activity was expected to be very low with a chance for a C-class flares and a slight chance for an M-class flare on day one (22 Apr) and expected to be very low with a chance for a C-class flare on day two (23 Apr), and expected to be very low with a slight chance for a C-class flare on day three (24 Apr).

Note: On The Air, March / April 2021, ARRL Magazine, "Here Comes The Sun", arri.org/here-comes-the-sun

The sun has an enormous impact on your enjoyment of amateur radio.

The sun has a lot to say about how well you can communicate and it is "speaking" 24/7 !

This issue has great articles explaining some of the basics of solar activity and the suns effect on amateur radio.

73,

Fred
AA0JK


DRC's Trading Post

Speaking of purchasing don't forget you can find **locally-sourced, ham-grown** merchandise at:
<https://www.w0tx.org/trade.htm>

PAST ROUND TABLE PAGES

PROVIDED BY WOODY LINWOOD, W0UI

A page from the April 1958 edition.



THE ROUND TABLE
ROGERS RADIO CO

IT'S SPRING TIME AND
TIME TO SPRING DOWN TO ROGERS FOR BARGAINS

EIMAC A54.	\$ 99.75
EIMAC AF67	\$ 140.00
PE 103 DYNAMOTOR	\$ 25.00
JAMES 500MA VIBRATOR SUP.	\$ 35.00
GONSET SUPER SIX	\$ 40.00
WEBSTER BAN SPANNER ANTENNA.	\$ 24.95
VIKING MOBILE.	\$ 89.00
VIKING MOBILE VFO.	\$ 30.00
NC 2-40D	\$ 169.50
PRO 310 DEMO	\$ 495.00
NATIONAL NC 125.	\$ 125.00
HALLICRAFTERS S85.	\$ 85.00
WRL GLOBE CHAMPION 150	\$ 150.00
CUSTOM LINEAR PR 6146's.	\$ 100.00
JOHNSONS RANGER.	\$ 200.00
WRL GLOBE CHAMPION 300	\$ 425.00
WRL GLOBE CHIEF.	\$ 54.95
WRL UM1 MODULATOR KIT less tubes	\$ 32.50
WRL 600 WT ANTENNA TURNER KIT.	\$ 69.50
WRL GLOBE SCOUT.	\$ 65.00
CENTRAL ELECTRONICS 20A.	\$ 200.00
HEATH KIT DX 100	\$ 175.00
JOHNSONS VIKING VALIANT demo	\$ 375.00
VIKING NAVGATOR new	\$ 199.50
COLLINS 32V-1.	\$ 275.00
JONES MICRO MATCH.	\$ 25.00
PROP PITCH MOTORS.	\$ 25.00
COAX SWITCHES 6 POSITION	\$ 10.00

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W0EHE HARRIS

W0TYB BETTY
W0RQI LA RUE

ROGERS RADIO CO.

TA 5-5142

1648 WAZEE

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](#)



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
[Implementing VARA FM & Winlink](#)

THE ROUND TABLE ARCHIVE

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

THE ROUND TABLE ARTICLE INDEX

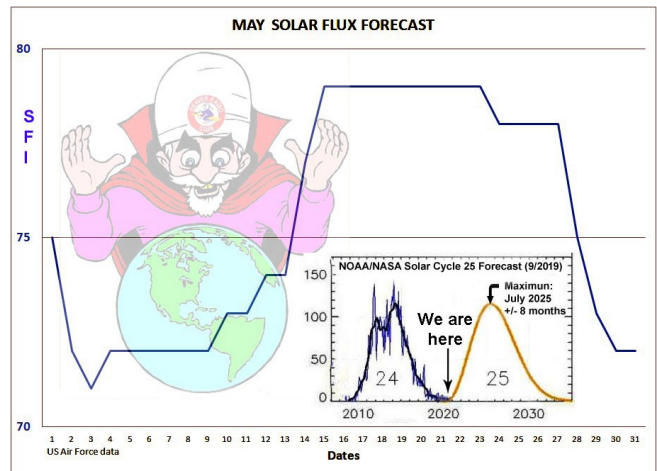
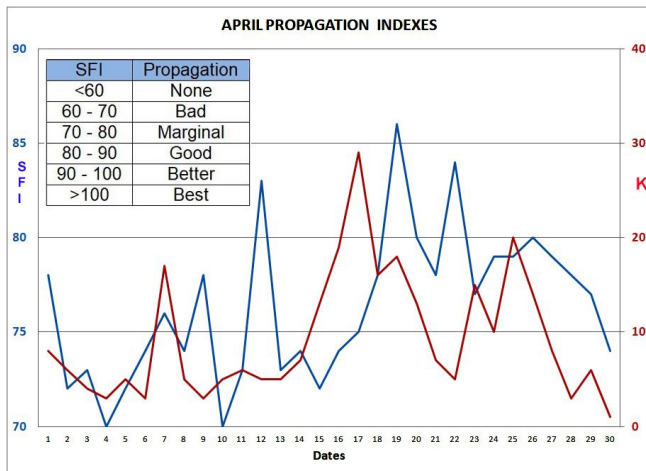
Go to: <http://www.w0tx.org/RoundtableArchive/-RoundTables-Index.pdf>

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 *Round Table* 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
Montrose ARC Tail Gate	06/05/21	Lions Club Pavilion	montrosehamradio.org

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
Arizona	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
Connecticut	05/01/2021	05/02/2021	New England QSO Party	
Delaware	05/01/2021	05/02/2021	First State Amateur Radio Club	
Idaho	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
Indiana	05/01/2021	05/02/2021	Hoosier DX and Contest Club	
Maine	05/01/2021	05/02/2021	New England QSO Party	
Massachusetts	05/01/2021	05/02/2021	New England QSO Party	
Montana	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
Nevada	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
New Hampshire	05/01/2021	05/02/2021	New England QSO Party	
Oregon	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
Rhode Island	05/01/2021	05/02/2021	New England QSO Party	
Utah	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
Vermont	05/01/2021	05/02/2021	New England QSO Party	
Washington	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
Wyoming	05/01/2021	05/02/2021	Central Oregon DX Club	7th Call Area QSO Party
Arkansas	05/08/2021	05/09/2021	The Noise Blankers Radio Group	

ATTENTION

SUPPORT THE DRC FROM YOUR AMAZON PURCHASES

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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. W0TX Room 40931.
70cm	446.7875MHz (-)	BrandMeister Repeater: Slot 1 – Wide Area Traffic, Slot 2 – Local Talk Group 310804








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MAY 2021		<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
2	3  Last Quarter	4	5 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)	6	7	8
9 <i>Happy Mother's Day</i> 	10	11  New Moon	12 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)	13	14	15 
16	17	18	19 DRC Online Meeting Elmer 6 p.m. Meeting 7 p.m.  First Quarter	20	21	22
23 30	24  31	25	26 Lakewood Siren Test 11 AM Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)  Full Moon	27	28	29

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

DRC BOARD OF DIRECTORS

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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 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