



THE ROUND TABLE

Monthly Newsletter Of The Denver Radio Club

Since 1917

July 2022

PRESIDENT'S MESSAGE

BY GERRY VILLHAUER, W0GV

Hello DRC Members,

As I write this month's message we just wrapped up our DRC Field Day. We had been watching the weather forecast for several days and had concerns that we would have a replay of last year's field day weather. As we got closer to the event day, the forecast got better and better. We had a little shower on Friday as we were placing some equipment at the site. When we started to set up the tents and antennas on Saturday morning, it was cool and a little breezy. The rest of the day Saturday and Sunday was perfect field day weather...Cool and no rain! We had really great help in setting up and tearing down the field day site. To all who helped, A HUGE THANK YOU! When we have plenty of good help, this massive task goes real easy. Thanks to Cathy, N0CRZ, for doing the food and beverages. This worked out well and we had good comments from members and visitors attending. To all our members, new members and visitors, THANK YOU! We had more visitors, inactive hams, wanting to get back into ham radio and people curious about ham radio than we had in past years. This is a good thing! I hope your questions were answered and we will see more of you as active hams. And finally, a big thanks to Doron, K1DBC and Mark, N0XRX for planning and executing the event. A lot of work, for many months, goes into this event. Thanks Doron and Mark for a job well done! We will have a planning meeting for next year's event and use suggestions and experiences to make field day 2023 even better.

Thanks to John, N6NBC, for his very interesting presentation about the phenomenon of Skin Effect on antennas and baluns. Thanks John, great program. And, we are having John, N6NBC back for another of his very interesting and informative presentations for our July regular meeting. This program will be on Efficient Magnetic Loop Antennas. If you want a small HF antenna for limited space, this may be the antenna for you. Mark your calendar for July 20, 2022, don't miss the show! (Editor's Note: Here is the link for the meeting: meet.google.com/bsq-zrpv-jpi)

Finally remember, THE BIG ONE, the DRC Hamfest will be on Sunday, August 28, 2022 at the Adams County Fairgrounds. Please see our website W0TX.ORG for more information. Table reservation and admissions are available NOW! At the top of our website, click on Events and then Hamfest for details and registration information.

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



JOIN OUR TEAM!!

Job Description: **Membership Chairperson**

The Denver Radio Club, Inc., a non-profit organization serving the amateur radio community, is seeking a volunteer to assist in membership management efforts. Be an ambassador for the club.



Position Description:

Assist current and potential members in activities associated with The Denver Radio Club

- Primary communications point of contact for members; mostly email
- Manage membership database - coordinate renewals and new members
- Monthly mass email for membership activities, newsletter, surveys, and announcements
- Reconcile payments and dues
- This is a volunteer position

Qualifications:

- Excellent interpersonal skills - ability to support the Board and other Officers with the organization's communications.
- Amateur Radio Licenses not required.
- Experience with membership support and management preferred but not required
- Self-Motivated; able to take initiative, reliable, and honest
- Organized and resourceful
- Computer skills a must; Email, Mail merge, mass email applications, spreadsheets, database management, and web-based applications.

Hours:

Average 4-6 hours a week. Beginning of month about 8 hours depending on computer skills. Ability to attend Club activities reliably (face-to-face meetings, hamfests, field day, etc.)

To Apply:

Send simple resume/letter outlining qualifications and why you believe you would be a good fit and why you want to volunteer. Include any limitations or restrictions as applicable. If you have any questions, please include them in the email/letter.

Email to ***membership@w0tx.org***.

WHO'S NEW IN THE DRC?

FROM DRC MEMBERSHIP

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:

Brad Van Slyke - AC0ZJ
Dunnigan MacIlwaine - K1DUN

Jonathan Kayne - KM4CFT
Rodger Hough - K1HH
Laurie Cary - KF0JOS
Sarah Nyxx - N4NYX
Cali Wierzbanski - KC1KNQ
Terry Abell - KR0TEA

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.

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.

June topics we discussed:

- HOA Antennas
- Fox Hunt – N0CFM
- Study guides for the new prospective Ham
- Kits QRP Labs - QRP Labs Kits (grp-labs.com)
- Field Day DRC Field Day (w0tx.org) Field Day Safety

- New [WØTX Web Page](#)
- New Technician Question Pool Released, Effective July 1, 2022.
- K6HTN, Kate, expressing her reason for getting a Ham Radio License and emergency communications. QRZ
- Yaesu FT65 Super Easy Way to Program - In Depth Review PT 2 <https://youtu.be/rWUmMBGc-1c>
- Logging software
- Mid Power – Keeping the power down when operating in an apartment, Town-home, HOA's.
- Desk mikes vs hand helds

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 [WØTX 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.



arri.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

LIGHTNING & RADIO

By KEVIN SCHMIDT, K0KPS

On the June 1st DRC Learning Net, a question was brought up as one of the topics. The question that was asked with a bit of my paraphrasing for a little more context was, "Does transmitting on an amateur radio station (at a home location) with a wire antenna or tower antenna increase the propensity of causing a lightning strike?"

I elected to reach out and present that question to the Lightning Data Center, which is located in the Denver area, and conducts monthly meetings. Experts who deal with lightning and electrical shocks responded with their knowledge and expertise. Their consensus was that radio frequency transmission would not increase your chances of being struck by lightning. There have been several instances that victims talking on cell phones have been struck, but it may have been more the situation of being outside during a thunderstorm that allowed them to be struck, but not merely operating their cell phone (portable radio). A handheld radio would not increase your chances of being struck for the same reason, but when you hear thunder, their advice is always to go inside to a safe location.

I also presented another question along similar lines, "Are there any reports of a radio operator being struck by lightning from lightning striking their antenna and conducted into their radio station via their coax? Remember that these are doctors and experts dealing with lightning and unfamiliar with radio stations, so the question was presented with a bit more context.

Their reply had more background information. Lightning typically carries voltages between 500,000 volts to 1 million volts. The highest recorded voltage was 1 billion (Yes, that is with a "B") volts. Since a QTH station's antenna has both height and should be grounded, lightning can indeed be attracted to your location. An operator holding a microphone or wearing a headset can be electrocuted in this instance. One expert conveyed that a local Denver television station was operating with a remote truck that got struck and the engineer working on a computer got shocked. This happened in the 1970's and was only aired once within their news and never acknowledged after that. Other reports have been with PSAP 911 operators having their communications center struck and dispatchers getting shocked.

My takeaway is this. When lightning is forecasted and approaching, one should disconnect their antenna coax(es) from their radio to prevent (1) damage to their equipment, and (2) not operate from their station for safety sake. Stay Safe!

AMATEUR RADIO LICENSE MAP

By BILL RINKER, W6OAV

Want to know what Hams live in your neighborhood? There may be more than you think! Check out the Amateur Radio License Map at <https://haminfo.tetranz.com/map>

WHAT IS THE BEST ANTENNA?

REPRINTED WITH PERMISSION BY ONNO, VK6FLAB

The single largest topic of conversation in Amateur Radio is about Antennas. The discussion often starts with one amateur telling another amateur about some or other amazing antenna, followed by a heated discussion about the merits or pitfalls of that same antenna and why they would never ever consider using it and why it's a waste of money, or some other rationale.

Let's take for example the discussion of Dipole versus Vertical. There are those who will tell you that they'd never ever use a Dipole and similarly those who'd say the same about a vertical. Assertions of suitability aside, let's have a look at what we're talking about, first of all.

In rough terms, a dipole is an antenna that is generally suspended between two sky-hooks, its fed from the centre and has pretty much an omni-directional radiation pattern. That is, signals arrive and depart from this antenna, pretty much evenly in all directions. Now, before you get all excited. It's not exactly the case, since it's not an isotropic point source, which you might recall is a theoretical antenna that we can prove not to be physically possible, but a dipole is the next best thing.

A vertical is an antenna, which is often supported from a pole of some description, has some form of radial ground-plane at the base and while it's also omni-directional, there are parts of the signal that don't arrive nearly as well and other parts of the signal that fare better.

Often a statement when comparing a dipole to a vertical will be something like this: "A vertical is better for DX and a dipole is better for local contacts."

Now, let's just investigate that for a moment. If you've ever seen the radiation pattern for a vertical, you might have seen that there is a particular angle at which there is gain when compared to other angles. What this means is that signal arriving and departing from the antenna in essence favour that angle. Similarly, a dipole doesn't display this phenomenon nearly as sharply. There is some asymmetry between the sides and the ends of a dipole, but it's not particularly strong. Not that it's non-existent, just not pronounced.

If you were to overlap the radiation pattern of a dipole and that of a vertical, you'd notice that apart from the single angle where the vertical favours radiation, the dipole pretty much has the same level of gain all round.

In essence, this means that to all intent and purpose, apart from a single little angle, the dipole is pretty much the same as a vertical.

I hear you say, "Yes, but..."

Indeed.

Think of a vertical as an antenna that favours a particular angle of incidence. It's more prone to hear signals from that angle than any other angle. Similarly, any transmitted signal is likely to favour that particular angle.

As you know, the ionosphere is a moving feast. Signals arriving at one angle one moment may not be arriving at the same angle the next moment. If your vertical hears a signal one moment and not another, does that make for an effective antenna?

Another aspect that separates a vertical from a dipole is the behaviour of vertical signals, so called NVIS, or Near Vertical Incident Signals. Things that are nearby. A vertical antenna all but ignores that aspect, where a dipole has no such behaviour.

So, we're getting to the heart of it, imagine for a moment that the differences between a vertical and a dipole is their difference in filtering of signals. That is, a vertical filters signals from above, where the dipole doesn't. Similarly, a vertical filters all but the bits from a particular angle of incidence, where a dipole doesn't.

If you've followed along, you might begin to realize that there is not a single "best" antenna. It's horses for courses. Your antenna choice is based on what you aim to achieve, not which antenna is better than any other antenna.

So, the question: "Which antenna is the best?" should really be: "Which antenna is the best for this particular activity?"

Something to try next time you have a chance. Get a two-way coax switch and hook up both a vertical and a dipole and listen to the same station with each antenna in turn. Take your time, listen throughout the day. You'll be amazed how they differ and how it changes over time.

I'm Onno VK6FLAB

<http://podcasts.itmaze.com.au/foundations/>

RADIOSHACK® IS BACK!

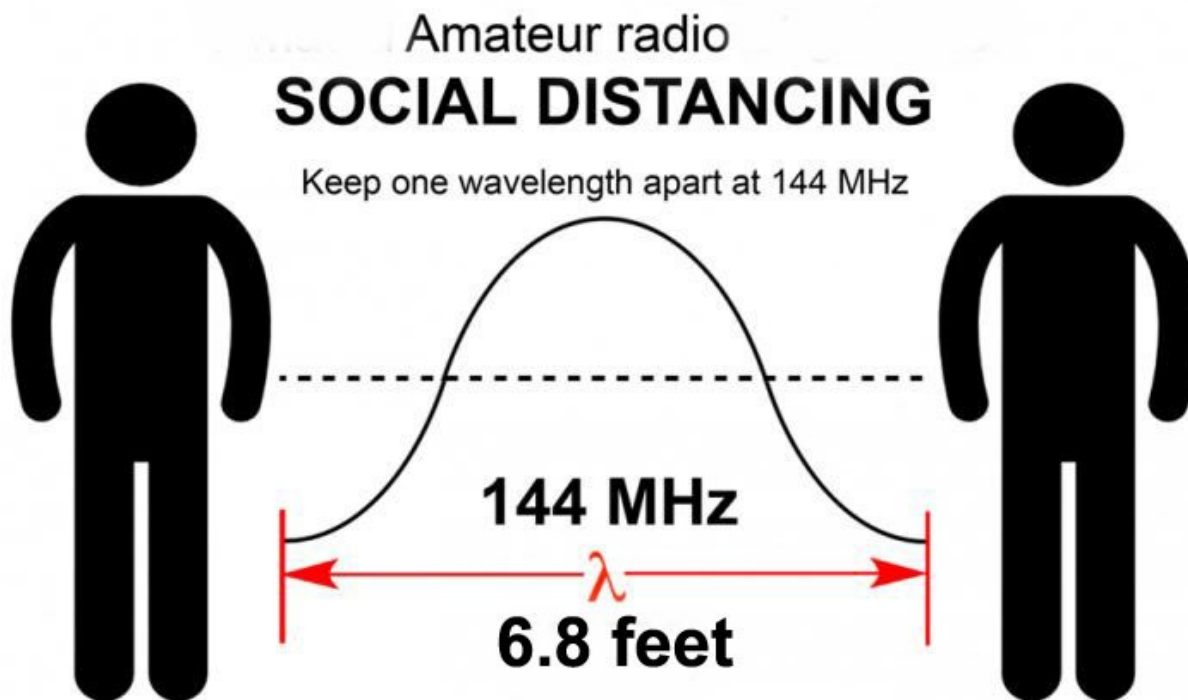
BY BILL RINKER, W6OAV

RadioShack is back as an online retailer of electronics! It offers an inventory that largely consists of parts, radios, batteries, telephone gear, drones, computer accessories, and even cameras. The new Radio Shack website is accessible at: radioshack.com

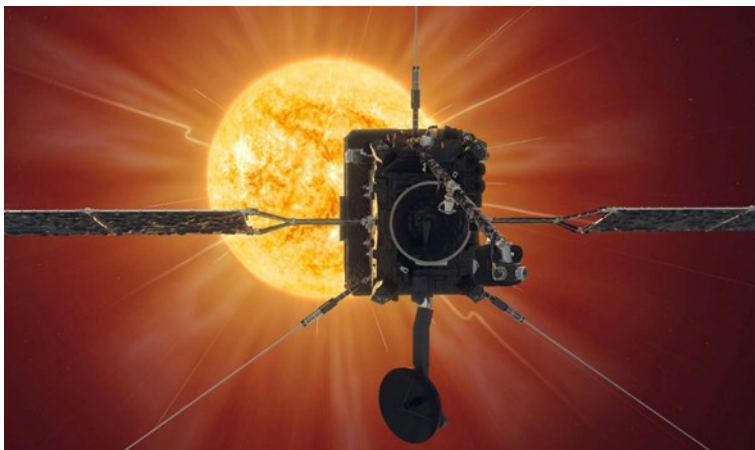
During its heyday, RadioShack had some 8,000 retail outlets and once offered a wide range of amateur radio equipment. RadioShack came out of its second bankruptcy in January 2018 with 400 independently owned dealers, an online retail presence, and a distribution center. There are 4 independently owned "Radio Shack Express" dealers in the Denver area. Their locations can be found at: radioshack.com/pages/store-locator

144

BY BILL RINKER, W6OAV

**SOLAR GEOPHYSICAL ACTIVITY REPORT**

PROVIDED BY FRED HART, AA0JK



June opened with a reversed polarity sunspot.

A new and unusual sunspot emerged in the sun's southern hemisphere, AR3027. It was a reversed polarity sunspot. In other words, its magnetic field was backwards.

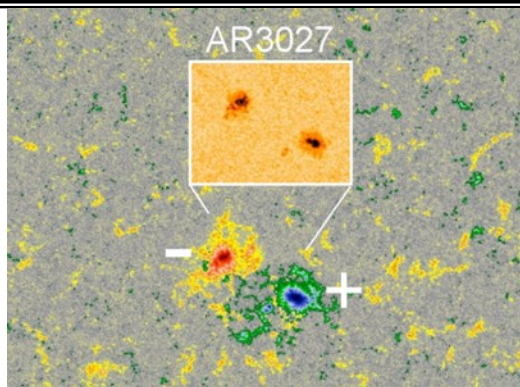
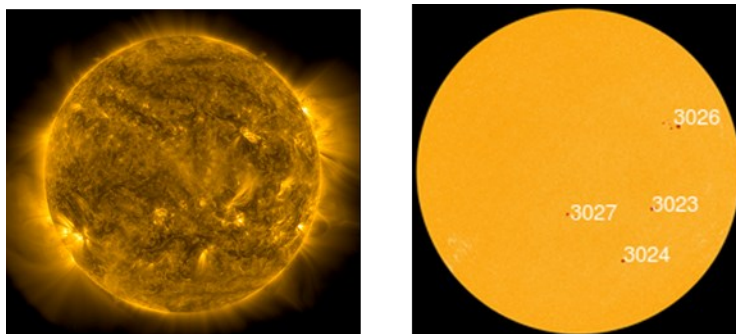


Image Credit: NASA's SDO

According to Hale's Law, Solar Cycle 25 sunspots in the sun's southern hemisphere should have a +/- polarity. That's positive on the left, negative on the right. However, the magnetogram above shows the opposite. Sunspot AR3027 was breaking the law!

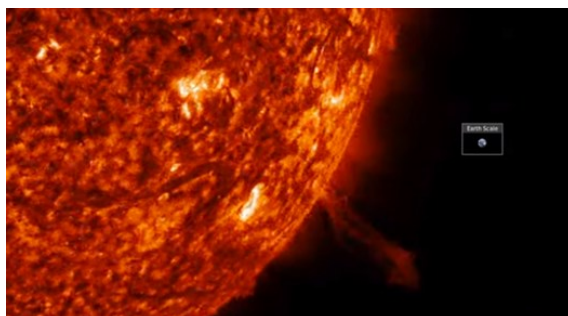
Studies show that about 3% of all sunspots violate Hale's Law. In some ways, reversed polarity sunspots act totally normal. For instance, they have the same lifespan and tend to be about the same size as normal sunspots.

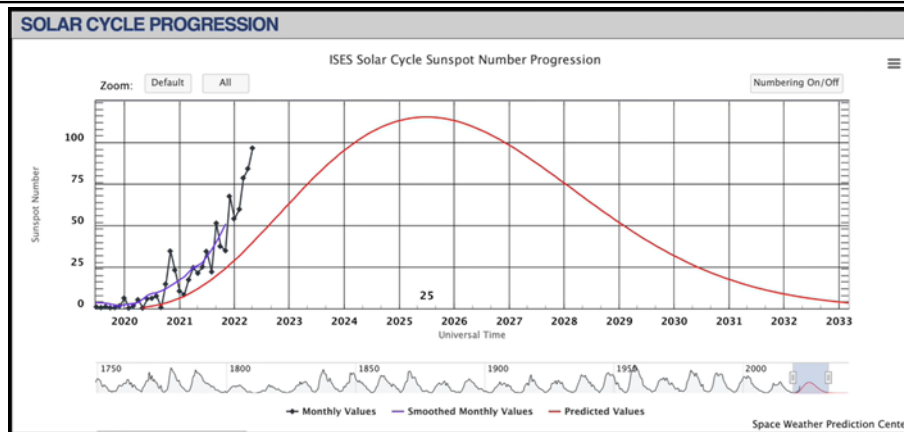
In one key way they are different. According to a 1982 survey by Frances Tang, of the Big Bear Solar Observatory, reversed polarity sunspots are more than twice as likely to develop complex magnetic fields, in which + and - are mixed together. Reversed polarity sunspots are therefore more likely to explode.



SDO/AIA 171 2022-05-31 08:37:10 UT

Solar cycle 25 update Once again, Solar Cycle 25 is exceeding predictions. Sunspot numbers in May 2022 more than doubled NOAA forecast, setting the stage for a relatively strong Solar Maximum in early 2025.



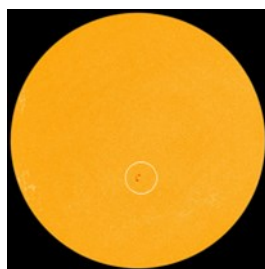
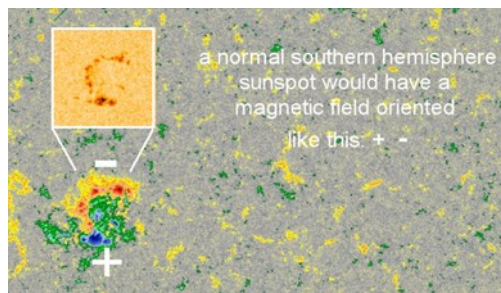


This filament was lifting and benignly erupting into interplanetary space after twisting helically high in the corona. The sunspots departed as the filaments were still an eruption threat. The coronal holes were confined to the poles at these heliographic longitudes and solar wind and geomagnetic conditions were quiet.

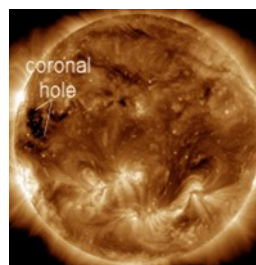
Solar Cycle 25 is producing a lot of sunspots. This is giving amateur astronomers an opportunity they haven't had in years, the chance to look into the dark inner surface of the sun.

June 7th - Quiet sun. The sun was peppered with small sunspots. All of them had stable, quiet magnetic fields unlikely to explode. The chance of strong solar flares was low.

A strange new sunspot. A new sunspot was emerging in the sun's southern hemisphere. It was circular, and its magnetic-field was tilted 90 degrees away from normal sunspots. This one would merit watching.



Credit: SDO/HMI

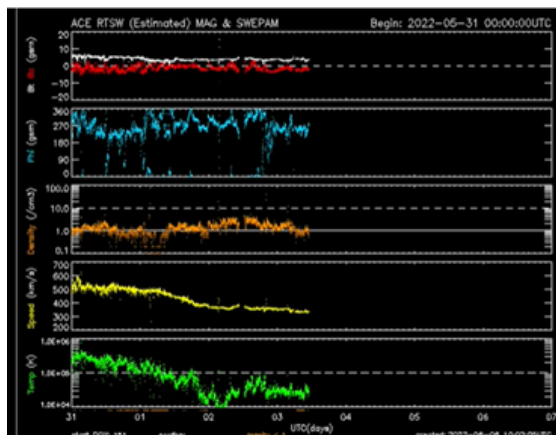


Credit: SDO/AIA

June 8th - With multiple sunspot groups in rapid decay, the sun was on the verge of producing a spot-less day. A remarkable development more than 2 years after the start of Solar Cycle 25. The chance of strong solar flares was close to zero.

We had several filaments erupting in an opening sequence. The bigger one facing earth stayed stable. We were experiencing either a small stealth CME or co-rotating interaction region. It appeared that we had several active regions but they all lacked significant sunspots filaments to erupt.

Lost data stream from ACE RTAW satellite. (NASA's Advanced Composition Explorer (ACE))



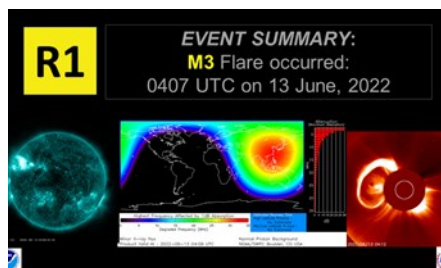
A hitch in the solar wind data from the ACE satellite. The two decades old satellite stopped sending data. This would leave us with only one earth monitoring satellite for solar wind reports. It was hoped that this loss would only be temporary.

June 11th - Sunspots were turning onto the earth-facing disk as you can see the equatorial coronal hole was approaching central heliographic longitudes we had only minor pops and snaps and crackling on the earth-facing circle but the filaments and the northern sunspots did provide a solar watch in the days ahead also while these sunspots had crested into view looking at SDO-171 we could see that there was an even brighter area just behind the limb maybe another day away from visibility and that was appearing to have much more energy than those smaller spots out ahead of it.

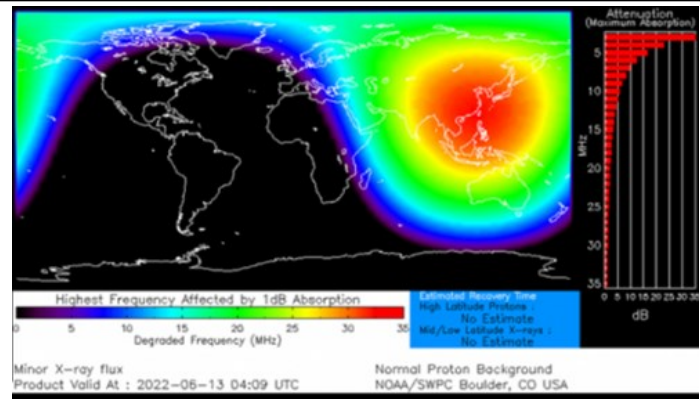
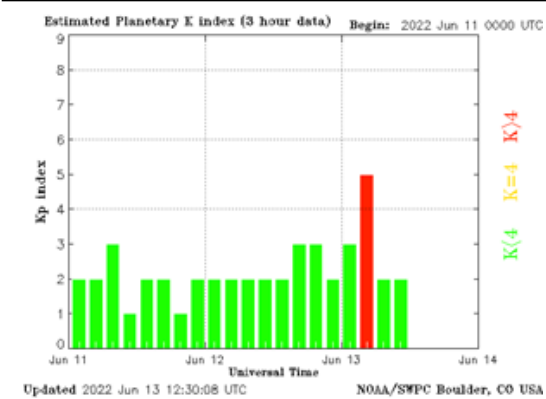


SDO/AIA 193 2022-06-11 10:37:17 UT

June 13th - Long-duration type II solar burst. NASA's Solar Dynamics Observatory

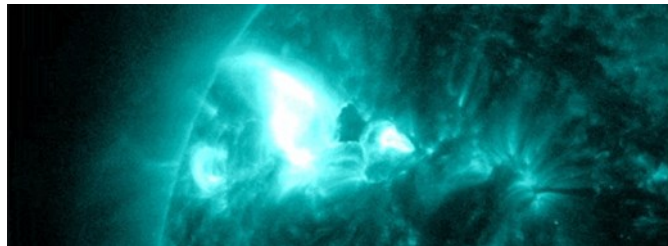


Type II solar radio bursts cause shock waves in the leading edge of a CME.

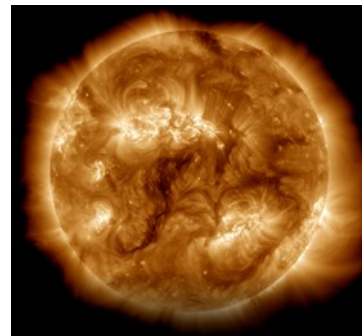
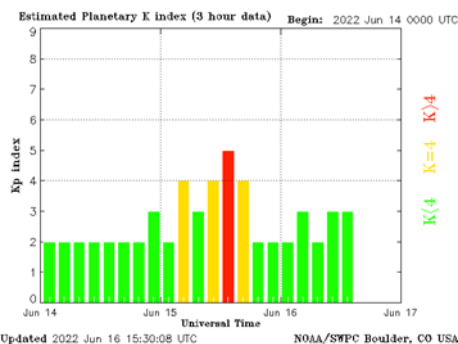


A Growing sunspot, AR3032, exploded on June 13th (0407 UT), producing a M3-class solar flare that lasted nearly eight hours from beginning to end.

Extreme ultraviolet radiation from the flare ionized the top of Earth's atmosphere, causing a shortwave radio blackout over Japan and southeast Asia. Radio operators in the area may have noticed unusual propagation effects at frequencies below 30 MHz for more than an hour after the flare's peak.



June 16th -



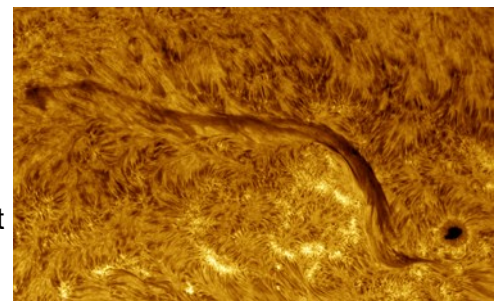
Geomagnetic field: Unsettled. Signal noise levels were at s2 – s3. Solar flare probability 60%.

Solar Cycle 25 is producing a lot of sunspots. This is giving amateur astronomers an opportunity they haven't had in years, the chance to look into the dark inner regions beneath the corona.

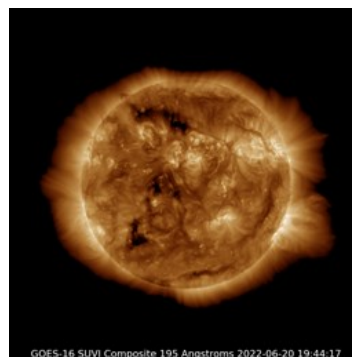
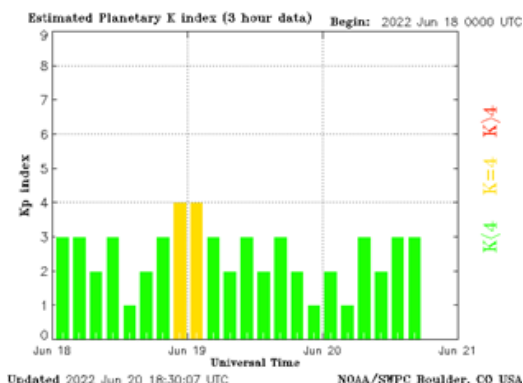
June 19th -

A super magnetic filament, it stretches 370,000 km from end to end. About the same as the distance from Earth to the Moon. One end of the filament was attached to sunspot AR3032.

June 20th - Solar activity was at low levels. The largest solar event of the period was a C4 event observed at 19/2010Z from Region 3038 (N15E06). There were 7 numbered sunspot regions on the

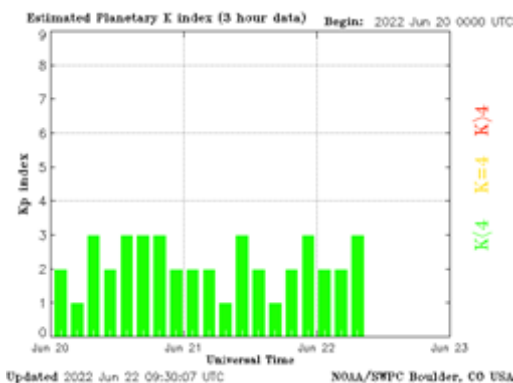


earth facing disk.



June 21st - The northern summer solstice arrived this morning, June 21st at 5:14 a.m. EDT. This is when the sun is farthest north for the year and begins its six-month return southward.

June 22nd - The Radio Sun 10.7 cm flux: 139 sfu



| HF Conditions | | |
|-----------------|----------|-------|
| Band | Day | Night |
| 80m-40m | Poor | Fair |
| 30m-20m | Good | Good |
| 17m-15m | Good | Good |
| 12m-10m | Fair | Poor |
| Geomag Field | UNSETTLD | |
| Sig Noise Lvl | S2-S3 | |
| MUF US Boulder | 11.47 | |
| Solar Flare Prb | 56% | |

Joint USAF/NOAA Solar Geophysical Activity Report and Forecast: SDF Number 172 Issued at 2200Z on 21 Jun 2022. Solar activity has been at low levels. The largest solar event of the period was a C2 event observed at 21/0252Z. There are currently 6 numbered sunspot regions on the disk.

Forecast: Solar activity is expected to be low with a chance for M-class flares and a slight chance for an X-class flare on day one (22 Jun) and expected to be low with a chance for M-class flares on days two and three (23 Jun, 24 Jun).

No radio blackouts have been observed.

73,
Fred
AA0JK

ATTENTION


The DRC Board of Directors meetings are held on the 4th Wednesday of the month and are open to any member. Due to scheduling of meeting space, the board does not always meet at the same location and on occasion meetings are held via Skype. Anyone wishing to attend, please contact a board member prior to meeting night for specific information.

PAST ROUND TABLE PAGES

PROVIDED BY WOODY LINWOOD, W0UI

From the November 1960 edition.

CLUB CHARACTERS
By Roy Raney, KØOVQ



KØOOA

Andy Bahley, KØOOA, was cleaning out a closet one day last summer when he unearthed a converted ARC-5 transmitter. With typical enthusiasm, he abandoned his cleaning project and hooked up the ARC-5 on his workbench. He plugged in a dummy load, applied power, and pressed the key.

The television set across the room went wild.

Andy Bahley, KØOOA, sighed, put away the ARC-5, and resumed his cleaning chores. It just wouldn't do for the district engineer in charge of the Federal Communications Commission to have TVI.

And so went the amateur activities of Andy Bahley for another year. It's not that Andy has become indifferent to his hobby because of his professional activities, but as engineer in charge of the 15th District he finds little time for amateur operation. Still a ham at heart, he talks fondly of the days when he first got his license (in 1932) and chased DX with the best of them. Just a youngster living in a New York apartment building at the time, he didn't have to worry about TVI as he collected an impressive array of QSL cards from many countries. His only problem, he recalls, was a neighbor who raised homing pigeons on

PAST ROUND TABLE PAGES, CONTINUED

PROVIDED BY WOODY LINWOOD, W0UI

**IS YOUR ADDRESS
CORRECT?**

The second edition of the Colorado Ham Directory is definitely in the making. In order to get everyone listed correctly, please send any information to Howard Eldridge, KØDCW, 3156 W. 25th Ave., Denver 11, Colo., that is if you are not presently correct in the Colorado Ham Directory. We prefer a post card to telephone. If Howard had to take some three hundred phone calls, it could be quite difficult with bits of scratch paper scattered all over the shack.

the roof of the next building. The birds weren't sharp-eyed enough to spot Andy's antenna wire suspended between the buildings, and they often got clobbered in flight. Andy assures us that a neighbor with television interference problems isn't half as difficult to handle as a neighbor with a pigeon interference complaint.

Andy's first love in those days, as it is now, was CW operation. He still enjoys wrapping up a key about 35 w.p.m. In the early days of the five-meter band, he switched for a while to phone and joined the experimenters on that band. It was there that he once heard his own call—W2EIL—being used illegally by a "boo-leg" station.

Maybe that was one of the reasons why Andy joined the FCC. In any case, he now makes it his business to see that the many radio services in his district operate within the law. Does he spend much time running down bootleg stations? Not much, says Andy. The hams do much of that for him. Reports of illegal stations on the amateur bands usually come from the hams themselves. The odds are against a bootleg operator, he says, because "you can't fool a hundred thousand hams."

Before taking charge of the Denver office Andy was in charge of the FCC district headquartered in Savannah, Ga. There, as W4KPI, he was president of the local amateur radio club.

As an FCC engineer, Andy must represent the commission in the hundreds of matters in which it has authority. His job

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](#)



amazonsmile
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
[Stratfor Global Intelligence](#)

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)

The propagation charts will return next month.

UPCOMING EVENTS

HAMFESTS & CONVENTIONS

| Event | Date | Location | Sponsor Website |
|----------|----------|--------------------------|--|
| Megafest | 07/16/22 | Lewis-Palmer High School | ppraa.org/megafest |

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 |
|----------------|------------|------------|--|-------|
| Maryland-DC | 08/13/2022 | 08/14/2022 | Anne Arundel Radio Club | |
| Hawaii | 08/27/2022 | 08/29/2022 | Hawaii QSO Party | |
| Kansas | 08/27/2022 | 08/28/2022 | Kansas QSO Party | |
| Ohio | 08/27/2022 | 08/28/2022 | Ohio QSO Party | |
| Colorado | 09/03/2022 | 09/04/2022 | Pikes Peak Radio Amateur Association | |
| Tennessee | 09/04/2022 | 09/05/2022 | Tennessee Contest Group | |
| Alabama | 09/10/2022 | 09/11/2022 | Alabama QSO Party | |
| Iowa | 09/17/2022 | 09/18/2022 | Story County ARC | |
| New Hampshire | 09/17/2022 | 09/18/2022 | Port City Amateur Radio Club | |
| New Jersey | 09/17/2022 | 09/18/2022 | Burlington County Radio Club | |
| Texas | 09/17/2022 | 09/18/2022 | Texas DX Society | |
| Washington | 09/17/2022 | 09/18/2022 | Western Washington DX Club | |
| Maine | 09/24/2022 | 09/25/2022 | Wireless Society of Southern Maine | |
| California | 10/01/2022 | 10/02/2022 | California QSO Party | |
| Nevada | 10/07/2022 | 10/09/2022 | Sierra Nevada Amateur Radio Society | |

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 | 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 |







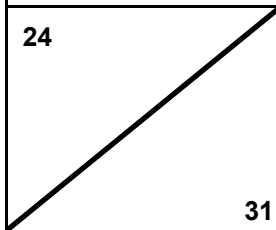

**HAM
RADIO
OUTLET**

NOBODY BEATS AN HRO DEAL!

COME VISIT US AT
8400 E ILIFF AVE #9, DENVER, CO 80231

TOLL FREE: 800.444.9476 | DIRECT: 303.745.7373 | EMAIL: DENVER@HAMRADIO.COM

HAMRADIO.COM

| JULY 2022 | | | | | | |
|--|--|---------|---|--|--------|---|
| DRC Net Sundays at 8:30 p.m. on 145.490 / 448.625 (no PL) | | | | | | |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| | | | | | 1 | 2 |
| 3 | 4  | 5 | 6 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)  First Quarter | 7 | 8 | 9 IARU HF World Champi- onship - Begins 1200 UTC |
| 10 IARU HF World Champi- onship - Ends 1159 UTC | 11 | 12 | 13 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL)  Full Moon | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 DRC Online Meeting Elmer 6 p.m. Meeting 7 p.m.  Last Quarter | 21 | 22 | 23 |
| 24  31 | 25 | 26 | 27 Learning Net 7:30 p.m. 145.490 / 448.625 (No PL) | 28  New Moon | 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@arri.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 | n0rxr@w0tx.org |
| Board Member | K0TOR | Jim Beall | 303-798-2351 | k0tor@arri.net |
| Board Member | WG0N | Dave Baysinger | 303-987-0246 | wg0n@arri.net |
| Board Member | KB0CHT | Jeff Irvin | Check Roster | Check Roster |

DRC STAFF AND VOLUNTEERS

| | | | | |
|-----------------------|--------|-----------------|--------------|--|
| Benevolent | | Carolyn Wolf | 303-279-1328 | benevolent@w0tx.org |
| Club Librarian | WG0N | Dave Baysinger | 303-987-0246 | wg0n@arri.net |
| Digital Committee | W6OAV | Bill Rinker | Check Roster | digital@w0tx.org |
| Education Coordinator | AA0JK | Fred Hart | 303-420-3536 | elmer@w0tx.org |
| EmComm Coordinator | KE0HFH | Michael Vespoli | 303-215-8862 | emcomm@w0tx.org |
| EmComm Coordinator | AD0UZ | Brennan Pate | Check Roster | emcomm@w0tx.org |
| Field Day Chairman | K1DBC | Doron Ben Chaim | 720-254-1561 | k1dbc@w0tx.org |
| Membership | N0XRX | Mark Thomas | 720-438-0848 | membership@w0tx.org |
| Net Control | K0TOR | Jim Beall | 303-798-2351 | net@w0tx.org |
| Public Relations | K0AXP | Dave Verlinde | 248-515-2371 | publicrelations@w0tx.org |
| RT Managing Editor | AD0UZ | Brennan Pate | Check Roster | roundtable@w0tx.org |
| RT Associate Editor | W6OAV | Bill Rinker | Check Roster | Check Roster |
| Hamfest Manager | N0CRZ | Cathy Villhauer | 303-467-0223 | drcfest@w0tx.org |
| Tech. Committee Chair | W6OAV | Bill Rinker | Check Roster | tech@w0tx.org |
| Trustee | WW0LF | Orlen Wolf | 303-279-6264 | trustee@w0tx.org |
| VE Team | KC2CAG | Tom Kocalski | 720-284-1911 | kc2cag@arri.net |
| 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 roundtable@w0tx.org.

Subject: I'm located in...

EDITOR'S NOTE © 2022 Denver Radio Club. Articles in the RT may be reprinted with permission for non-commercial or educational use only.

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

Sunday August 28, 2022- Adams County Fairgrounds

DENVER RADIO CLUB

HAMFEST



NOTE: NEW PLACE AND DATE!!!

Adams County Fairgrounds

9755 Henderson Road in Brighton

Sunday August 28, 2022

9:00 am – 1:00 pm

\$6.00 Admission

(Children under 13 free w/adult)

Exact Change appreciated

Doors open to the Public at 9am

Six-foot tables Advance Purchase..... \$13.00 each

Tables at the Door..... \$20.00

No guarantee of availability of "at the door" tables!

Vendor Setup begins at 7:30 on August 28th

Table assignment will be available at check-in

License Testing/VE Exams at 10 am

Talk-In: 145.490 or 448.625 PL 100.0Hz

GPS: Lat 39d 43' 19" N Lon 105d 10' 15" W

Handicapped Parking & Access Available

Visit our website for table reservations or email our hamfest manager Cathy

Villhauer at drcfest@w0tx.org