



# ROUNDTABLE

The Denver Radio Club Newsletter

Since 1917

August 2018

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## PRESIDENT'S MESSAGE

BY GERRY VILLHAUER, W0GV

Hello DRC Members,

I hope your summer is going well. I cannot believe how fast the summer has gone by. As I write this, Cathy and I are spending our last day at Airventure 2018 in Oshkosh, Wisconsin, where we volunteer on the Ford Tri-Motor team. We have had a blast and look forward to next year already. If you like airplanes and have never been to Oshkosh, you owe it to yourself to make the trip. I guarantee you will not regret it.

Thanks to Paul Deeth (WA2YZT) for arranging our July meeting at Rocky Mountain Metro Airport in Broomfield. (Which is still Jeffco Airport to me) It was a great experience seeing the Denver News Helicopter and talking to some of the crew. Very few people know what you now know; that all the major TV stations and KOA radio get their airborne reports from the same helicopter and put their own personal twist on the reports. Paul, thanks again for the wonderful informative evening and the cookies and water.

Our August program...How Community Emergency Response Teams and Ham Radio work together. Charlie Gilbert (N0PIC), trains Community Emergency Response Team (CERT) in Arvada and has been emphasizing the importance of quick, clear and accurate communications between small 2 to 3 person field teams and central control functions. These small community teams are the critical first responders for all incidents. They are your neighbors and their ability to assess, communicate and react to any incident is critical to saving lives and property. Charlie will present the scope of the program and training and the importance of ham radio support. Mark your calendar for Wednesday August 15th so you do not miss the program. Since the first day of August is on a Wednesday, we will have an early meeting this month.

OUR BIG EVENT FOR THE YEAR! The DRC Hamfest on August 26th, 2018 at the Jefferson County Fair Grounds. This is the event that we need support from every member and your friends. We have the reputation for the best hamfest in the area. Please come support it by your attendance. This would be a good time to sell those items that you have been wanting to find a new home for, but just haven't gotten around to it. See our website at [www.W0TX.org](http://www.W0TX.org) for full details and to print a table reservation form. Tables go fast starting the first of August; don't miss out on reserving YOURS!

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,

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:

Linda Blackmore - N0BNY	Paula Maupin - KE0NXS
Richard Blackmore - N0CTO	Richard Strouse - KE0SNQ

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 (WW0LF)

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

Status: WW0LF has sent a letter to the TSA describing the services that the DRC can provide and recommendations for the communications equipment and antennas. Orlen has submitted an MOU that the salvation army is reviewing.

#### Station 4 Remote Power Control (WG0N)

Goal: Install Internet controlled power outlets.

Status: WG0N has installed an Internet controlled outlet power strip at Station 4. The internet is working now and the remote control should be operational soon.

#### Centennial Cone Remote Power Control (W0GV)

Goal: Document equipment to be controlled by the Internet controlled power outlets. Install the outlets.

Status: Orlen will set up the control through the 7330 controller that is in the rack for the other two repeaters.

#### Fusion Repeater Move (W0GV)

Goal: Discuss the feasibility of moving the Fusion repeater to a better coverage location.

Status: Feasibility study is in progress.

#### Fusion Repeater WIRES Interface (W0GV)

Goal: Get the WIRES Interface on line.

Status: Pending.

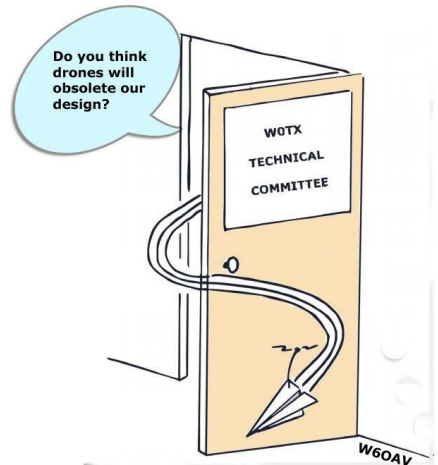
#### Fusion Repeater WIRES Interface (W0GV)

Goal: Train several club members how to program and maintain the Fusion Repeater system.

Status: Pending

#### Additional Notes:

Dave (WG0N) will check antennas on the tower at station 4.



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## AUGUST MEETING PRESENTATION

BY PAUL OLSON, K0WSU

*How Community Emergency Response Teams and Ham Radio Work Together* - Charlie Gilbert (N0PIC) and Sooze Gilbert (KS0OZE) train Community Emergency Response Teams (CERT) in Arvada and have been emphasizing the importance of quick, clear and accurate communications between small 2 to 3 person field teams and central control functions. These small community teams are the critical first responders for all incidents. They are your neighbors and their ability to assess, communicate and react to any incident is critical to saving lives and property. Charlie will present the scope of the program and training and the importance of ham radio support.

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## LEARNING NET REPORT

BY FRED HART, AA0JK

Thanks goes out to our net controllers: Jim (AD0ZM) and Larry (K0LAI). The following topics were discussed this past month:

- Carrier Power VS SSB PEP Power
- Introduction to Single Sideband: <https://youtu.be/5qzA7bzVsO8>
- A Simple SSB PEP Measuring Procedure: average power at 100% modulation = 1.5 X resting carrier power
- A Simple SSB PEP Measuring Procedure - AB4OJ: [www.ab4oj.com/test/peptest.html](http://www.ab4oj.com/test/peptest.html)
- Power required for 100 watt radio, when reduced for QRP operation.
- Field Day Activities
- Power Supplies and Power Conditioners: <http://www.arrl.org/power-supplies>
- Which Power Supply Should You Get?: <http://desertrats.us/power-supply-get-switching-linear-whats-difference/>
- Negative lead fusing, ya or nae?: <https://groups.yahoo.com/neo/groups/HamLearningNet/conversations/messages/1369>

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. 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 Coordinators: Mike Vespoli (KE0HFH) or Brennan Pate (AD0UZ), at [emcomm@w0tx.org](mailto:emcomm@w0tx.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 via [w0tx@w0tx.org](mailto:w0tx@w0tx.org) or [elmer@w0tx.org](mailto: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. Questions can also be submitted on the YAHOO Learning Net web page <https://groups.yahoo.com>. Here you will also find information from past activity that you might find of interest.

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 / 448.625.

(Note: The third Wednesday of the month is devoted to the DRC club meeting. See the [W0TX web site](#) for additional information.)

73,

Fred  
AA0JK

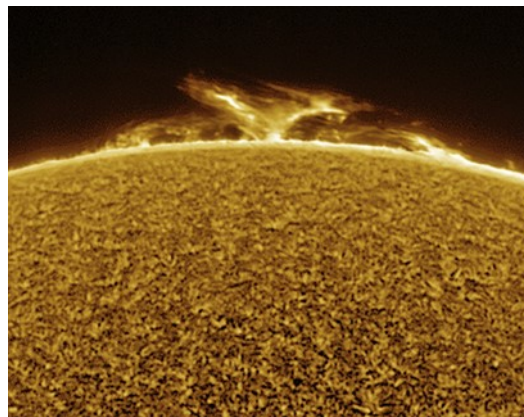
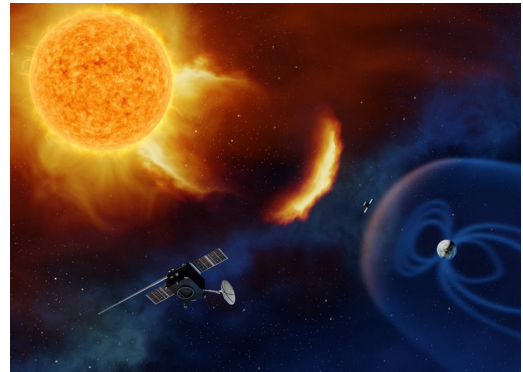
### SOLAR UPDATE

PROVIDED BY FRED HART, AA0JK

Conditions were good for Field Day weekend, with no major geomagnetic disruptions, while solar flux and sunspot numbers were relatively high for this part of the solar cycle.

Simmering quiet: Earth was passing through a disorganized stream of solar wind flowing from a network of small holes in the Sun's atmosphere. The gentle buffeting caused only minor geomagnetic unrest. "Simmering quiet" conditions were expected to continue until July 1st or 2nd, when a more coherent stream was predicted to arrive.

July 4th - Fireworks on the Sun: The face of the Sun may have been devoid of spots, but the edge of the Sun was brimming with activity. "While folks in the USA were getting ready to celebrate the 4th of July with fireworks and BBQs, our Sun was displaying some fireworks of its own in the form of a nice prominence."



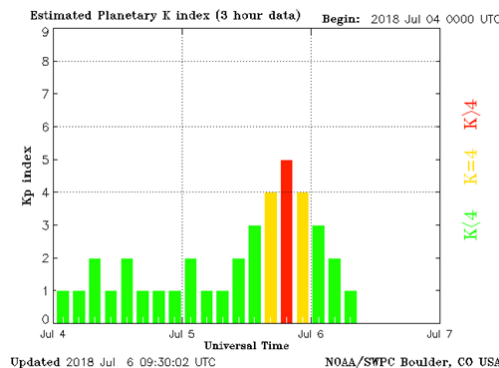
The prominence was located on the NW edge of the Sun.

A prominence is, essentially, a cloud of hot plasma held above the Sun's surface by magnetic fields.

For the 7th day in a row and the 94th day so far in 2018, the Sun was blank - no sunspots.

July 5th - MORE THAN A WEEK WITHOUT SUNSPOTS: The Sun was without sunspots for 8 consecutive days. Consider this the shape of things to come. The sun is rapidly plunging into a deep solar minimum. By the end of 2018, spotless intervals will be measured in weeks, not days, as the solar cycle continues to weaken. How does this affect us? Ironically, weak solar activity boosts cosmic radiation in Earth's atmosphere, a situation that is expected to worsen in the years ahead

July 6th -

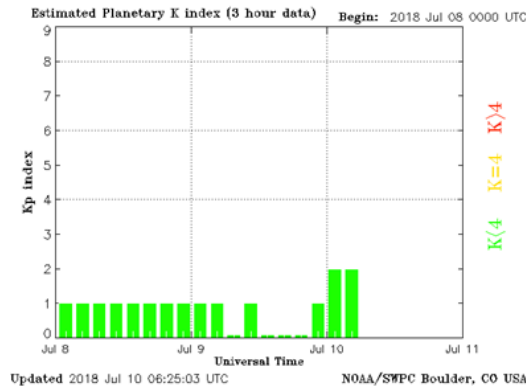




July 8th - Dr. Tamitha Skov (KM6UCO), reported that space weather was expected to jump into action based on two weak solar storms en-route to Earth. NASA models were predicting a hit starting July 9th. Amateur Radio propagation was forecast to see some improvement as the region rotated into view.

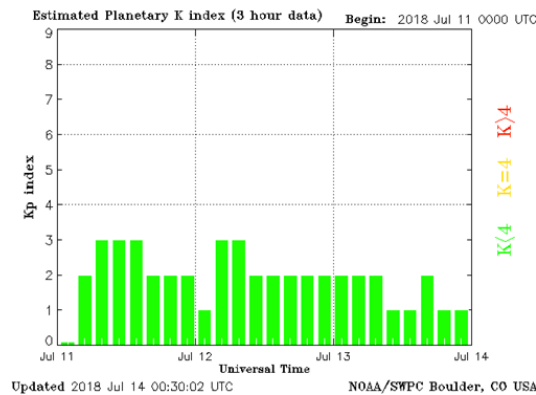
Flare and Solar Radiation Storm Activity : A new region rotated into view, and brightened the Sun! Solar flux increased and boosted Amateur radio propagation back to marginal levels on the Earth's day side, but was expected to be unsettled near the dawn-dusk terminators.

July 10th -

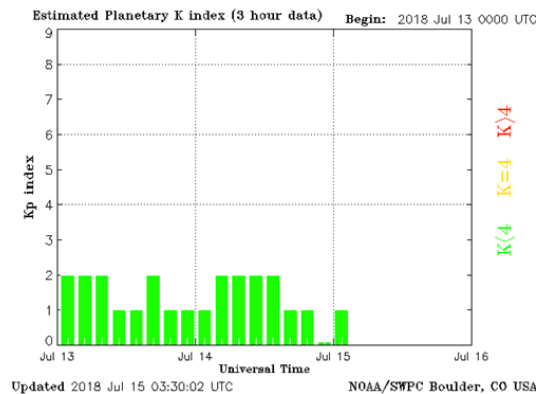


July 12th -TWO+ WEEKS WITHOUT SUNSPOTS: The Sun was without spots for 15 straight days. To find an equally long stretch of blank suns, you have to go all the way back to November 2009 when the Sun was emerging from the deepest solar minimum in a century. However, 15 days without sunspots is not a long time. At the nadir of that century-class solar minimum in 2008, the Sun was blank for 52 consecutive days. Conclusion: Solar minimum is just beginning and we have a long way to go.

July 13th - Conditions remained quiet to unsettled.

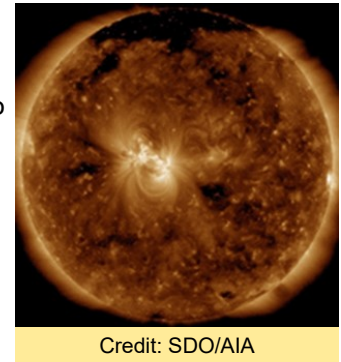
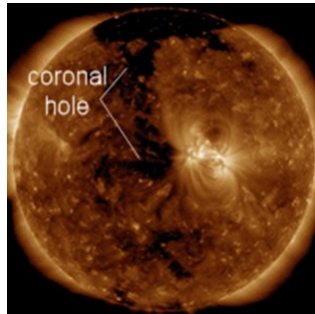


July 15th - Solar activity was very low under a spotless solar disk. No Earth-directed CMEs were observed in available satellite imagery.



There were no large coronal holes on the Earth-side of the Sun.

July 16th - 19 DAYS WITHOUT SUNSPOTS: The Sun was without spots for the 19th straight day. To find an equal stretch of blank suns, you have to go all the way back to September of 2009 when the sun was emerging from the deepest solar minimum in a century. The current stretch of spotlessness is a sign that the sun is entering another solar minimum, possibly as deep as the last one.



Solar wind flowing from this coronal hole was expected to reach Earth on July 20-21. Credit: SDO/AIA

*The bright region crossing the face of the Sun was actually a remnant sunspot. The main part eroded and what remained, no longer had the magnetic complexity required for a numbered region. We call it a 'plage', and it was expected to boost the solar flux easily over the following few days! ~ Dr. Tamitha Skov*

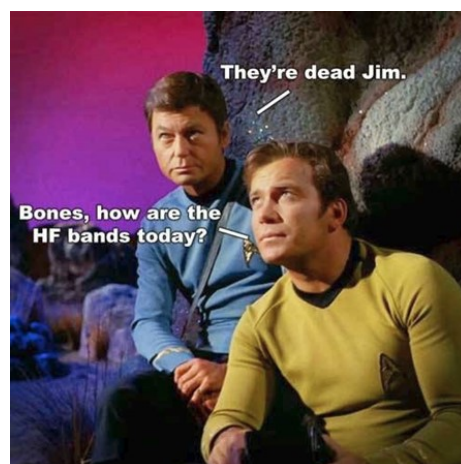
Forecast of Solar and Geomagnetic Activity 16 July – 11 August 2018, Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center: Solar activity was expected to remain very low throughout the outlook period.

Geomagnetic field activity was expected to range from quiet to G1 (Minor) geomagnetic storm levels. Unsettled levels were expected on July 16th, July 21st, and July 24th; active levels were expected on July 20th and 22nd; G1 (Minor) geomagnetic storm levels are expected on July 23rd. All increases in geomagnetic activity were in anticipation of multiple, recurrent CH HSSs.

Geomagnetic field activity was mostly quiet with several periods of unsettled levels observed on July 11-12. A slow-moving transient signature was observed in the solar wind midday on July 10th from a CME first observed in STEREO AHEAD COR 2 imagery early on July 5th. A decrease in solar wind speeds was observed, after the onset, which lowered winds from near 385 km/s to 309 km/s at its slowest point on July 11th. Total magnetic field strength peaked at arrival with 13 nT. Bz and was mostly oriented either near neutral or northward which produced a quiet to unsettled geomagnetic response throughout the duration of the transient.

73,

Fred  
AA0JK



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## 2019 UTAH ARRL ROCKY MOUNTAIN DIVISION CONVENTION

PROVIDED BY PAT MALAN, N7PAT

(Editor's Note: Pat sent this over. His is the PIO for the Red Cross in the Salt Lake City area.)

Link for event information (8/10/19): <https://goo.gl/forms/jrOOQ1QGqtrDbT4o2>

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## JULY MEETING - WHAT'D I MISS?

BY ROBERT BAUMANN, WV0Z

(Editor's Note: Robert recently rejoined the club and sent in the following photos from the July meeting.)



Rear of Photographer's Control Panel



Antennas



Retracted Chopper Camera

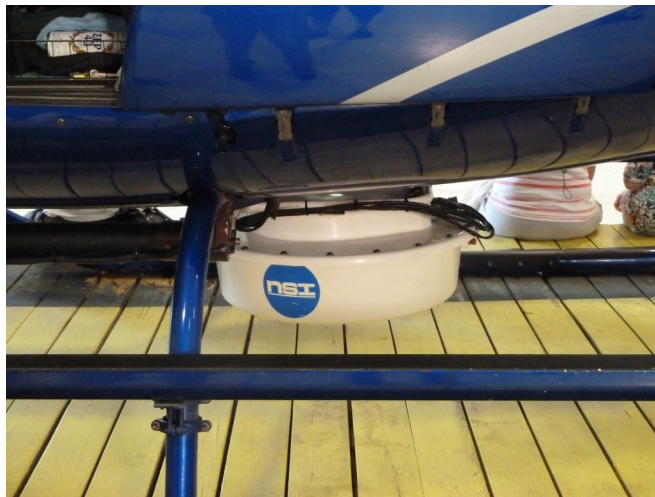




Photographer's Seat and Control Panel







2 GHz antenna which maintains live feed with Lookout Mountain





**TUNE SHORTWAVE WITHOUT A RADIO**

By BILL RINKER, W6OAV

Would you like to do the following using only a computer’s browser and no special software?

- Listen to VLF, MF, and HF signals using remote receivers located around the world.
- Determine if your HF signal is reaching a particular location in the world.
- Analyze your antenna’s performance to different locations in the world.
- Compare two antenna’s efficiencies to different locations in the world.

If so, read on.

One can do these things by using a basic computer thanks to various Software Defined Radio (SDR) Servers that exist around the world....which are FREE! So what is an SDR Server? An SDR Server contains an SDR receiver and special software that allows connection to the Internet. See Figure 1. This special software also allows remote users to log into the SDR Server and independently control all functions of the SDR radio. For example, in Figure 1 User 1 may be listening to a 20 meter SSB signal, User 2 may be listening to Radio China and User 3 may be listening to a 40 meter CW signal. These users can independently vary filters, watch the S meter, change modes and frequencies, etc. Figure 2 shows what User 1 sees when listening to a 20 meter SSB signal and Figure 3 shows what User 2 sees when listening to Radio China. These screen shots were from a SDR Server in Italy.

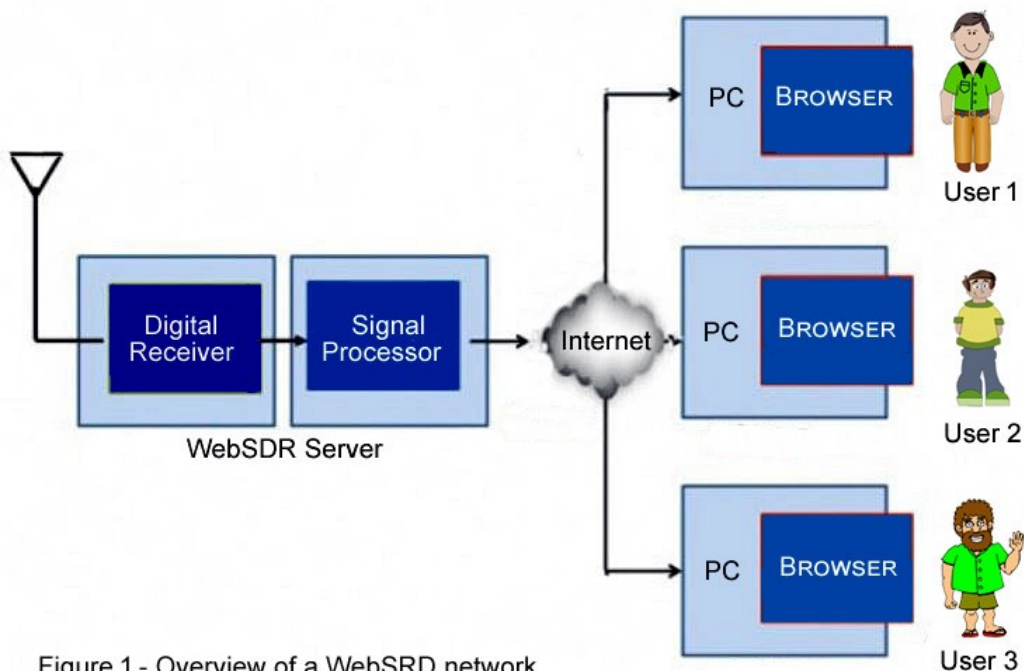


Figure 1 - Overview of a WebSRD network

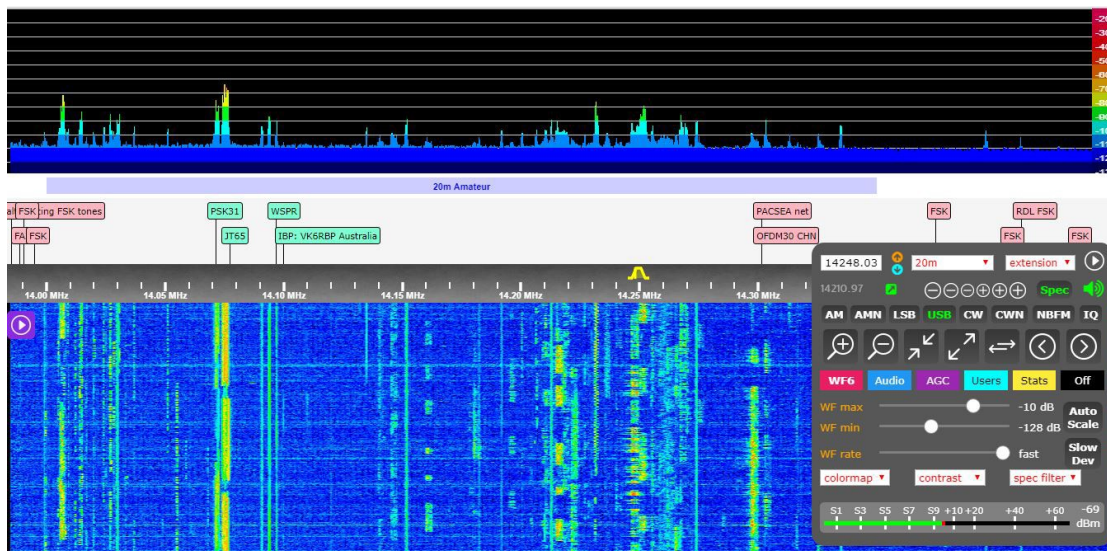


Figure 2 - User 1's screen listening to a SSB signal on 14248 KHz

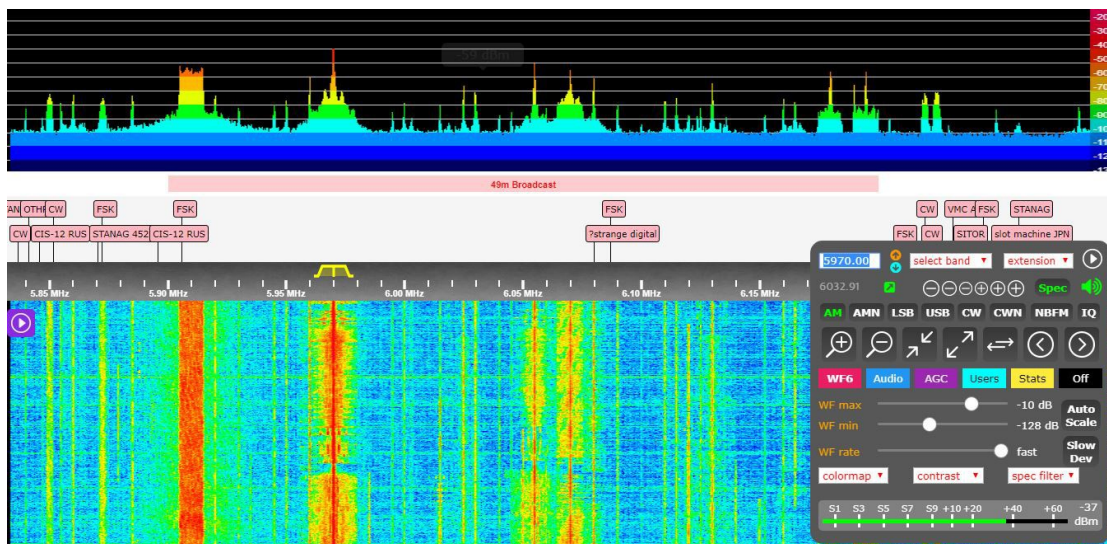


Figure 3 - User 2's screen listening to Radio China on 5970 KHz

There are two large SDR Server networks. One is the SDR.hu network found at <https://sdr.hu/?top=kiwi>.

As of this writing (June 2018) there were 213 SDR Servers on line with 162 listeners. The second large SDR network is the webSDR network found at <http://www.websdr.org/>. There were 167 SDR Servers on line with 816 users.

As a foot note, I often use these networks to test out antennas that I build. I like to rotate beams and watch the S Meter of a particular SDR Server to determine the front to back ratio and beam width. I also like to switch between a reference antenna and a new antenna to compare their efficiencies to various locations. This beats having someone somewhere describe what he's seeing during these tests!



**MORE FIELD DAY 2018**

PROVIDED BY ROBERT BAUMANN, WV0Z







**~ GET PUBLISHED ~**

We welcome and encourage all members to share their experiences and stories so that we can all learn from one another. It can be long or short. If we can't fit it into one newsletter, we can split it across multiple issues. Not a writer? We have volunteers that will listen to your story and put it into an article, and of course you will have the opportunity to review and approve prior to publication. Your contribution to the club is welcomed and appreciated. ~Editor



**ARRL EXHIBITS FOR THE FIRST TIME AT AIRVENTURE OSHKOSH 2018**

PROVIDED BY FRED HART, AA0JK

ARRL has made its presence known this year at the world's largest air show. Over 500,000 from around the world in attendance and the ARRL was there. The EAA (Experimental Aircraft Association) to aviators is like the ARRL is to the radio experimenters and Hams around the world furthering their knowledge, experience and camaraderie.



ARRL Central Division Director Kermit Carlson (W9XA) greeting Fred (AA0JK) at the ARRL exhibit booth.

The ARRL display also included an APRS beacon, operating as W1AW-9. Many pilots carry small APRS beacons on their aircraft. The beacons are easily tracked by other APRS users, but also by friends and family who can track the beacons and aircraft position in real-time on map-based web services such as aprs.fi.

ARRL Marketing Manager Bob Inderbitzen (NQ1R, on left in image to right) was working with a team of members who were supporting the exhibit at the week-long aviation celebration and fly-in. Fred is seen reporting for volunteer shift duties.



Surprise!!! Emma Schaefer (KC9YGJ) was there for the opening ARRL event. Shown here with Fred. Great getting to visit with you Emma.

Emma is a contributing columnist to QST whose past works include "Planes in The Air, Hams on The Air" (QST, 2016, p 63).

Kyle Schaefer (KC9SDK), Emma's dad was also there helping introduce the ARRL and Amateur Radio to visitors.

"Cool! ARRL is here!" That was the sentiment shared by hundreds of



ham radio operators who visited the ARRL exhibit at AirVenture.

ARRL booth volunteers were also helping direct newcomers to radio clubs and testing locations. Those committed to getting their first Amateur Radio license were able to become ARRL members at AirVenture and get a free Technician class license manual in the bargain. ARRL's booth was located in Hangar B, Booth 2152.

Two Amateur Radio Special Event Stations were on the air throughout AirVenture. Organized annually by the Fox Cities Amateur Radio Club in Appleton, Wisconsin, W9ZL was set up at KidVenture at the Pioneer Airport airstrip in Oshkosh. The EAA Warbirds of America AirVenture Celebration Special Event Station, W9W, was set up near the display of vintage military aircraft. It celebrated historic aviation achievements, legendary pilots, and ground-breaking aviation innovations.



W9ZL, Special Event Station, Pioneer Museum.



Ray Novak (N9JA), operating special event station W9W. AA0JK in the background enjoying the event.



W9W Special Event Station

Airventure and the American Radio League. A pairing of two great organizations working to further the arts of aviation and electronic communications. Promoting advancements in education, and providing our youth with hands on opportunities to experience these Worlds. Life-long careers start here. Our future at work.

See you next year at Airventure in Oshkosh, Wisconsin.

73,

Fred  
AA0JK

**FREE ON LINE HAM MAGAZINES**

BY BILL RINKER, W6OAV

The following list shows web sites that provide free back issues of many popular ham, electronics and communications magazines. There's a lot of good reading there. Enjoy!

73 Magazine (Amateur Radio Today)

<https://archive.org/details/73-magazine>

Ham Radio Horizons

<https://archive.org/details/hamradiohorizons>

HamMag

<http://www.n5dux.com/ham/pubs/#hammag>

Ham Radio Today

[https://www.americanradiohistory.com/Ham\\_Radio\\_Today.htm](https://www.americanradiohistory.com/Ham_Radio_Today.htm)

RCA Ham Tips

[https://www.americanradiohistory.com/RCA\\_Ham\\_Tips.htm](https://www.americanradiohistory.com/RCA_Ham_Tips.htm)

Radio Electronics

<https://archive.org/details/radioelectronicsmagazine>

World Radio on Line

<http://www.n5dux.com/ham/pubs/#hammag>

Electronics Illustrated

[https://www.americanradiohistory.com/Electronics%20 Illustrated Master Page.htm](https://www.americanradiohistory.com/Electronics%20Illustrated_Master_Page.htm)

Radio News

[https://www.americanradiohistory.com/Radio\\_News\\_Master\\_Page\\_Guide.htm](https://www.americanradiohistory.com/Radio_News_Master_Page_Guide.htm)

Radio Constructor

[https://www.americanradiohistory.com/Radio\\_Constructor\\_Magazine.htm](https://www.americanradiohistory.com/Radio_Constructor_Magazine.htm)

Monitoring Times

<https://www.americanradiohistory.com/Monitoring-Times.htm>

Popular Communications

[https://www.americanradiohistory.com/Popular\\_Communications.htm](https://www.americanradiohistory.com/Popular_Communications.htm)

Shortwave Magazine

[https://www.americanradiohistory.com/Short\\_Wave\\_UK.htm](https://www.americanradiohistory.com/Short_Wave_UK.htm)



# Sunday August 26<sup>th</sup> - Jefferson County Fairgrounds

# DENVER HAMFEST



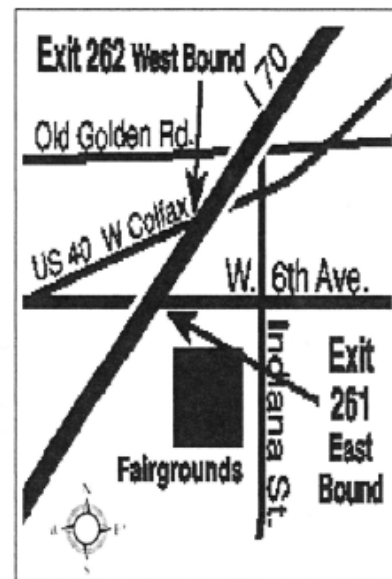
Denver Radio Club, W0TX 2018

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

**More Tables & Less Crowding**

## INDOORS

- Admission: \$6 (Children under 13 free w/adult)
- Exact change appreciated
- Tables: Advance Purchase: \$12 (Paid by Aug 22)
- At the Door \$16
- Hourly Door Prizes - Main Drawing at Noon  
(Must be present to win)
- Vendor Set-Up Starts at 7:30 AM
- Doors Open: 8:30 AM - 1:00 PM
- License Testing/VE Exams at 10 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



Jefferson County Fairgrounds

# WWW.W0TX.ORG

15200 West 6th Avenue Golden, CO

For more info visit our website or contact:  
Cathy Villhauer, NØCRZ 303-467-0223 E-Mail: drcfest@w0tx.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 22, 2018 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

**FACT OF THE DAY**

**Solar Flares**

Solar flares are incredibly powerful solar explosions that release a force equal to 100 hurricanes or so within a period of tens of minutes. The process is not fully understood, but it is believed that strong and wildly-twisted magnetic-flux that is known to exist near sunspots is the power source. Depending on the direction of a flare discharge, high-amplitude x-ray energy and ultraviolet photons may strike Earth about eight minutes later, followed by large quantities of high-energy particles several hours later. These radiations increase ionospheric ionization, increasing the absorption of signals in the lower part of the high-frequency spectrum and creating unusual DX opportunities at higher frequencies.

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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**

**HAM SITE OF THE MONTH**

[COLORADO CONNECTION REPEATERS](#)

**THE ROUNDTABLE ARCHIVE**

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

**THE ROUNDTABLE ARTICLE INDEX**

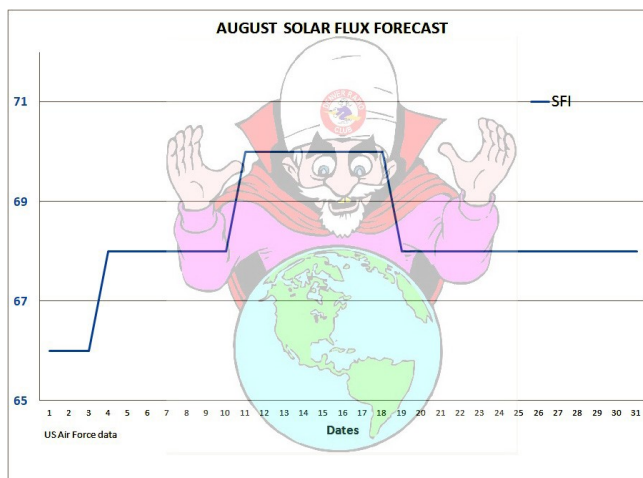
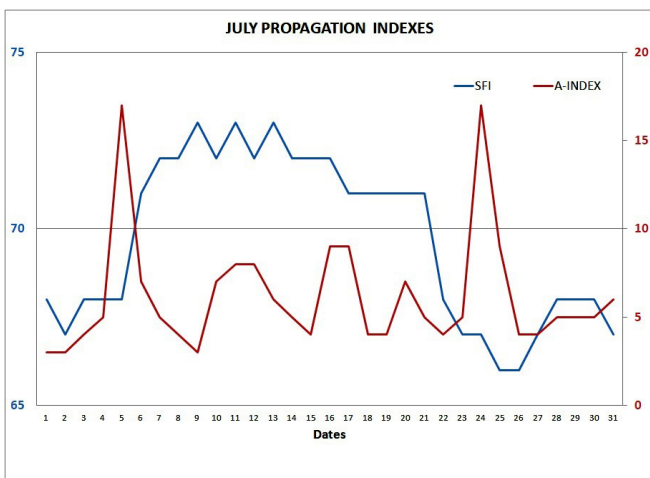
Go to: <http://www.w0tx.org/RoundtableArchive/-RoundTables-Index.pdf>

**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
Western CO ARC Swapmeet & Hamfest	08/04/18	First Christian Church, Grand Junction	<a href="#">Western CO ARC</a>
Denver Radio Club Hamfest	08/26/18	Jefferson County Fairgrounds	<a href="#">Denver Radio Club</a>

**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	08/11/2018	08/12/2018	<a href="#">Anne Arundel Radio Club</a>	
Kansas	08/25/2018	08/26/2018	<a href="#">Kansas QSO Party</a>	
Ohio	08/25/2018	08/26/2018	<a href="#">Ohio QSO Party</a>	
Hawaii	08/25/2018	08/27/2018	<a href="#">Hawaii QSO Party</a>	Based on 2017 date.
Colorado	09/01/2018	09/02/2018	<a href="#">Pikes Peak Radio Amateur Association</a>	Based on 2017 date.
Alabama	09/01/2018	09/02/2018	<a href="#">Alabama QSO Party</a>	
Tennessee	09/02/2018	09/03/2018	<a href="#">Tennessee QSO Party</a>	Based on 2017 date.
Iowa	09/15/2018	09/16/2018	<a href="#">Story County ARC</a>	
New Hampshire	09/15/2018	09/16/2018	<a href="#">Port City Amateur Radio Club</a>	Based on 2017 date.
New Jersey	09/15/2018	09/16/2018	<a href="#">New Jersey QSO Party</a>	Based on 2017 date.
Washington	09/15/2018	09/16/2018	<a href="#">Western Washington DX Club</a>	
Maine	09/22/2018	09/23/2018	<a href="#">Wireless Society of Southern Maine</a>	
Texas	09/29/2018	09/30/2018	<a href="#">Texas QSO Party</a>	
California	10/06/2018	10/07/2018	<a href="#">California QSO Party</a>	

**ATTENTION**

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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	2 meter / 20 meter gateway. Useable by Technicians on 2 meters. See January 2015 RT.
2m	145.490MHz (-) 100Hz PL	Linked to the 70cm / 448.625MHz machine.
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 the 2m / 145.490MHz machine.
70cm	449.350MHz (-) 100Hz PL	Wide area coverage with Echolink, node # 4140.
70cm	449.775 MHz (-) 100Hz PL	Yaesu Fusion Digital, Wires-X and analog. 100 Hz tone required for analog.
70cm	446.7875MHz (-)	BrandMeister Repeater: Slot 1 – Wide Area Traffic, Slot 2 – Local Talk Group 310804



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<b>AUGUST 2018</b>							<i>DRC Net Sundays at 8:30 p.m. on 145.490 / 448.625 (no PL)</i>
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
			<b>1</b> <b>Learning Net</b> 7:30 p.m. 145.490 / 448.625 (No PL)	<b>2</b>	<b>3</b>	<b>4</b> <b>222 MHz &amp; Up Distance Contest</b> - Begins 1800 UTC  Last Quarter	
<b>5</b> <b>222 MHz &amp; Up Distance Contest</b> - Ends 1800 UTC	<b>6</b>	<b>7</b>	<b>8</b> <b>Learning Net</b> 7:30 p.m. 145.490 / 448.625 (No PL)	<b>9</b>	<b>10</b>	<b>11</b>  New Moon	
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b> <b>DRC Meeting</b> Elmer 6 PM General 7 PM	<b>16</b>	<b>17</b>	<b>18</b> <b>10 GHz &amp; Up Round 1</b> - Begins 6 AM local  First Quarter	
<b>19</b> <b>10 GHz &amp; Up Round 1</b> - Ends Midnight local AND <b>Rookie Roundup - RTTY</b> - 1800 UTC thru 2359 UTC	<b>20</b>	<b>21</b>	<b>22</b> <b>Learning Net</b> 7:30 p.m. 145.490 / 448.625 (No PL)	<b>23</b>	<b>24</b>	<b>25</b>	
<b>26</b> <b>DRC HAMFEST</b> <b>830 - 1300</b> <b>Jefferson County Fairgrounds</b>  Full Moon	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>		

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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](mailto:drc.editor@gmail.com).

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