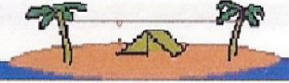


# WATTS NEWS



**The Best of Amateur Radio**

## OARC e-Magazine

[www.OgdenArc.org](http://www.OgdenArc.org)

**February 2023**

**Next Club Meeting/Activity/Events**

**Look Inside**



**Dave Mamanakis KD7GR**  
President



**Justin Hall KB7LAK**  
Vice President



**Colleen Pike KJ7EAY**  
Secretary



**J. Siddle KG7CJN**  
Treasurer



**Gary Hudman KB7FMS**  
Program Director

**(open)**  
Activity Director



**Val Campbell K7HCP**  
Webmaster/NL Editor

# OARC Watts News Masthead

[www.OgdenArc.org](http://www.OgdenArc.org)

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## OARC OFFICERS

**President:** Dave Mamanakis KD7GR

**Vice President:** Justin Hall KB7LAK

**Secretary:** Colleen Pike KJ7EAY

**Treasurer:** J. Siddle KG7CJN

**Program Director:** Gary Hudman KB7FMS

**Activity Director:** open

## OARC ADVISORS (past presidents)

Mike Fullmer KZ7O

Kent Gardner WA7AHY

Kim Owen KO7U

Larry Griffin AD7GL

Gil Leonard NG7IL

Jason Miles K7IET

## Executive Operations Manager

Val Campbell K7HCP

## "WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

## "OARC" web site

Webmaster: Val Campbell K7HCP

Postmaster: Val Campbell K7HCP

Membership Clerk: Val Campbell K7HCP

## OARC VOLUNTEER APPOINTMENTS

10m Net Control - Gene Morgan WB7RLX

Antenna Manager – Gene Morgan WB7RLX

Assistant Photographer - Rick Hansen N7EGA

Badge Manager – Barbara Siddle KB7FWW

Club Call Sign (W7SU) Trustee – Larry Griffin AD7GL

Club Caterer - Ceva Cottrell W7CVA

Club Chef - Dave Mamanakis KD7GR

Club Elmer – Stan Sjol W0KP

Club Technical Support – Rick Morrison W7RIK

Equipment Loan Program - Val Campbell K7HCP

**Equipment Manager - open**

FD Log Manager - Jason Miles KE7IET

Field Operations Manager - Gene Morgan WB7RLX

Ham & Eggs Breakfast – Dave DeHeer KJ7DAD

Ham & Eggs Net Control - Kenny Pronschinske KI7UFN

Ham & Eggs Net Control – Larry Griffin AD7GL

Ham & Eggs Net Control – Stan Sjol W0KP

Historian/Librarian – Kent Gardner WA7AHY

Media Manager—Kent Gardner WA7AHY

**Photographer – open**

QRZ Manager – Tim Samuelson KE7DOA

QSL Manager – Pete Heisig AI7GV

Repeater Engineer – Mike Fullmer KZ7O

Repeater Engineer – Scott Willis KD7EKO

**Social Media Manager - open**

YouTube Videos - Jason Miles KE7IET

VE Liaison Operations – Rick Morrison W7RIK

**VE Assistant - open**

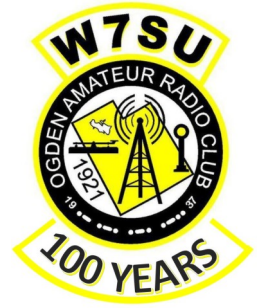
VE IT – Jason Miles KE7IET



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## OARC COMING EVENTS

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### **Next Meeting/Activity**

**3rd Saturday 18 February 2023 @ 9:00 AM**

**Topic: OARC Show and Tell**

### **Next VE Test Session**

**1st Wednesday 07 June 2023 @ 6:00 PM**

**A MESSAGE FROM OUR PRESIDENT**

## Dave's Rag Chew



**Dave Mamanakis KD7GR**

Greetings My Friends!

Did you miss Winter Field Day? Pictures follow!

It was warm! It was fun! We had hamburgers and hotdogs for dinner, and we made over a hundred contacts, including an old friend, Gil (NG7IL) who now lives up in Montana.

Evan worked CW, We did at least one Digital contact, and the rest were on Phone.

If you missed Winter Field Day... you really missed a good time!

But, there is always next year... I'll have made some improvements to the shed, so, put it on the calendar for next January! Winter Field Day 2024!

Thanks to all who DID come! And to Tom (AF7J) for making it happen!

This month!

Don't forget: Show And Tell on the 3<sup>rd</sup> Saturday! (the 18<sup>th</sup> of Feb.)

Even if you don't have any projects you have worked on, if you don't have anything to show, THIS is where you can get some great ideas of things to do! Projects, solving problems, ideas... Come out and Enjoy the Displays!

We will then have the Utah VHF Society Swap Meet on the 25<sup>th</sup> of Feb. If you need radios, antennas, coax, parts, pieces, projects... you will find it all at the swap meet! The Fairgrounds in Farmington! Seriously, you will find things you didn't know you needed!

For these and other bits of information, keep your eyes on the website!

We will ALWAYS have the latest information and updates on the front page of our website!

Oh, and we had a Test Session last Wednesday! I think everyone did well! We should be seeing some new Licenses show up soon, and I think we had a few upgrades!

Thanks to Rick (W7RIK) and the VE Team (you know who you are) for helping!

I'm sure you've noticed the snow we've been having... It is really good that we are having an actual winter here in Utah. But PLEASE be careful while driving in it!

Make sure you have some good snow tires, and that you give yourself plenty of room between others on the roads. The news is full of accidents, some of them are fatalities, we don't want you to be one of those stories!

Thank you all for being great members of the Club!

We look forward to seeing you at the next club meeting!

--Dave (KD7GR)



## **CLUB ANNOUNCEMENTS**

## CLUB NEWS

### HAM and EGGS Net

Tuesday Evenings at 6:30 PM Mountain Time

Mt Ogden **70 cm repeater 448.600 MHz** (- offset, 123.0 PL Tone)

New, Intermediate & Old Timers. Elmering, Education, General Ham Discussion and Rag Chew.

New hams encouraged to check in. Get connected, learn new things and ask questions.

Questions: Larry Griffin (AD7GL), [ad7gl@arrl.net](mailto:ad7gl@arrl.net)

Stan Sjol (W0KP), [stansjol@xmission.com](mailto:stansjol@xmission.com)

Kenny Pronschinske (KI7UFN), [kennypron@hotmail.com](mailto:kennypron@hotmail.com)



Larry Griffin

AD7GL



Stan Sjol

W0KP



Kenny Pronschinske

KI7UFN



## CLUB NEWS

### 10 Meter Net

Thursday Evenings at 0200 UTC (7:00 PM MT)

10 Meters HF - **28.385 MHz SSB (USB)**

Purpose is to promote activity on the 10 meter band (especially during low sunspot activity).

To give technician class operators an opportunity to operate phone, and to provide a venue for conversation and experimentation with antenna and ground wave propagation.

NOTICE: **“Work toward getting your “10 on 10 Award”**

**“Work toward getting your “10 meter WAS Award”**

Questions and Net Control: Gene (WB7RLX), ee\_morgan@outlook.com



Gene Morgan (WB7RLX)

## CLUB NEWS

### Ham & Eggs Breakfast

Each Wednesday, at a very early 8:00 am, some of the club members meet for an informal breakfast get-to-gather. Everyone is welcome.

Now at a new location:

**The Rusted Spoon-Ogden** (previously The Stagecoach)

**1310 Wall Ave, Ogden, UT**

NOTE: See you there ... if you can get up that early.

A record number attended recently ... 17 total.

73, Dave KJ7DAD



Dave DeHeer (KJ7DAD)

**PREVIOUS CLUB MEETING/ACTIVITY**

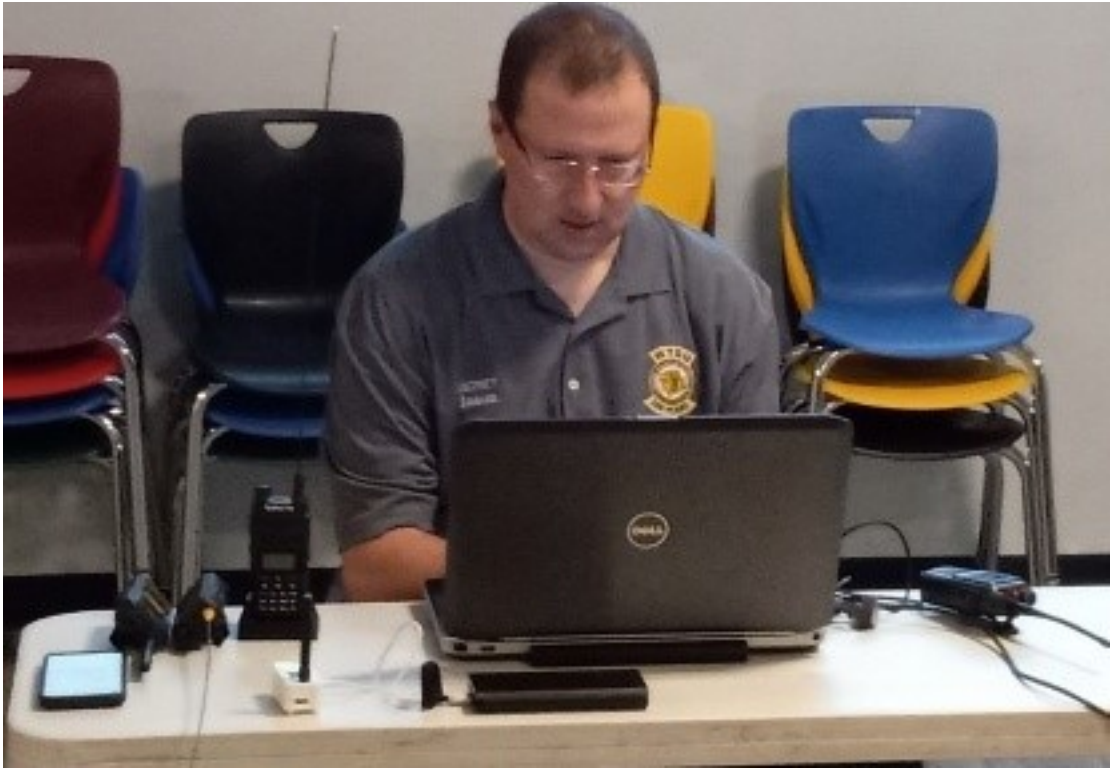
## CLUB NEWS

### PREVIOUS CLUB MEETING

3rd Saturday 21 January 2023

**DMR by Jason Miles KE7IET**













## PREVIOUS MEETING PICTURES

Photos by ... **club photographers**



Rick Hansen—N7EGA

**Note: We need a 2nd club photographer. Consider volunteering!**

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***"Previous Meeting/Activity/Event" ...***

***Photos and links located on the club web site home page.***

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**ALSO**

**Check out the OARC Facebook page**

**"Ogden Amateur Radio Club"**

**OARC SOCIAL MEDIA MANAGER ... needed**

## **CLUB NEWS**

### **PREVIOUS CLUB ACTIVITY**

#### **Winter Field Day**

**Saturday 28 & Sunday 29 January 2023**

**See photo album on club website home page**

**NEXT CLUB MEETING/ACTIVITY**

# **CLUB NEWS**

## **Next Club Meeting**

**3rd Saturday 18 February 2023 @ 9:00 AM**

**Topic: OARC Show and Tell**

### **Location:**

**Utah Military Academy  
5120 S 1050 W, Riverdale**

**CLUB & HOBBY NEWS**

## CLUB NEWS

Found this on the interweb. Interesting use of CW! Also it has a different meaning if you turn it different ways!

BTW Does your Jeep have any?

Rick Hansen N7EGA

The tread pattern in the footrest of some Jeeps has a Morse code pattern.



When you look at the Jeep footrest this way:  
It says **Uans Goas Srebir Skæor**



When you look at it this way:

It says **Rocks Rivers Snow Sand**, which makes more sense for a Jeep.

## CLUB NEWS

### Unique QSL Cards

STILL WANTED—STILL NEEDED

Send me your QSL Card Photos soon!

Submit to: [k7hcp@arrl.net](mailto:k7hcp@arrl.net) or [w7su@arrl.net](mailto:w7su@arrl.net) or 801.389.0690

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## CLUB NEWS

### Ham Shack Photos

STILL WANTED—STILL NEEDED

Send me your Ham Shack Photos soon!

Submit to: [k7hcp@arrl.net](mailto:k7hcp@arrl.net) or [w7su@arrl.net](mailto:w7su@arrl.net) or 801.389.0690

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**CONTRIBUTING EDITOR SUBMISSIONS**

# GUEST CONTRIBUTION

By Kent Gardner WA7AHY



**Damn the Bombs and Full Morse Code Speed Ahead**

**Virtual Reality Bomb Squad**

**Virtual Reality Morse Code**

**Virtual Reality Morse Code and the 80-Meter Band**

I just can't figure out what is the best title for this article that I have in mind to write.

It never seems to amaze me that Morse code has persevered for so many years. We no longer need to know the code to get an amateur radio license and Scouts no longer need to know the code to get their First-Class badge, but it is still thought of as an important thing to know.

Continuous wave (CW) is alive and well on the amateur bands and the Scouts still feature the code in their latest merit badge, Signs, Signals and Codes. Code signals still show up in movies such as The Hunt for Red October and several Star Trek episodes.

So now, I discover that Morse code is part of a virtual reality game. A good friend and neighbor shared a game with me. It goes by the name "Keep Talking and Nobody Explodes" and the instruction book that goes with it is entitled "Bomb Defusal Manual".

The Virtual Reality Headset looks like this:



The set is a 128 GB self-contained unit. It was Oculus Quest, but now renamed Meta Quest. The two devices with loops are the hand controllers with the loops being the safety wrist straps.

I had experienced another headset before, but the bomb defusal game added a new dimension.

The object of the game is to use the tool box of clues to defuse a bomb in under five minutes. There were different color wires to clip with the proper wire cutters and finding the “keys” to clues such as opening boxes/containers and solving different puzzles. With the hand controllers, one could pick up the box/bomb, place it on a work table, turn it over as needed and removing covers to expose the vital parts.

I promised my friend at least an hour to try my hand at the game. I found that the learning curve (for me) was a bit daunting, but things made sense the more I used the hand controllers. To top it off, I had to cut short my play time because of a last-minute schedule change. My first attempts had to be stopped and re-started until I began to get the hang of it. I got blown up my first try.

I did notice; however, that I began to experience motion sickness wearing the headset. In the Air Force, I wanted to be a pilot, but when I got a ride in a T-33 jet trainer at summer camp and experienced my first barrel roll, I told the pilot to head back to the base. I became an Information Officer instead. I crossed the ocean from England to New York on the Queen Mary in December of 1956. I was okay the first day out and the last day in, but was certainly seasick in the middle days. A side note: the Queen Mary became a floating museum in Long Beach, California and it had a ham radio shack setup on board. I have a certificate on my wall showing that I was a guest operator.

Anyway, I am subject to motion sickness and was somewhat relieved to hang up my virtual reality spurs and take a break. The following page from the manual shows, not only the Morse code chart, but a list of frequencies in our 80-meter band. This would lead us to believe that the writers/coders of the game had ham radio experience. They even called the code “antiquated”. See notes on the next page.

There were pages of different/foreign alphabets, capacitor discharge tables and passwords to get through. One had to choose from DVI-D to Serial ports. I think that some of you who are gamers and electronics people could have some fun with this.

TNX

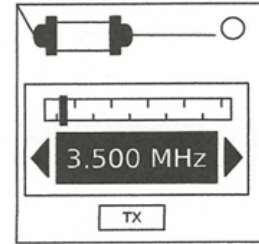
Kent Gardner, WA7AHY

Continued ...

## On the Subject of Morse Code

*An antiquated form of naval communication? What next? At least it's genuine Morse Code, so pay attention and you might just learn something.*

- Interpret the signal from the flashing light using the Morse Code chart to spell one of the words in the table.
- The signal will loop, with a long gap between repetitions.
- Once the word is identified, set the corresponding frequency and press the transmit (TX) button.



How to Interpret	
1. A short flash represents a dot. 2. A long flash represents a dash. 3. There is a long gap between letters. 4. There is a very long gap before the word repeats.	
A	• —
B	— •••
C	— • —•
D	— ••
E	•
F	•• —•
G	— —•
H	••••
I	••
J	• — — —
K	— • —
L	• — ••
M	— —
N	— •
O	— — —
P	• — —•
Q	— — • —
R	• — •
S	•••
T	—
U	•• —
V	••• —
W	• — —
X	— •• —
Y	— • — —
Z	— — ••
0	— — — — —
1	• — — — —
2	•• — — —
3	••• — —
4	•••• —
5	•••••
6	—••••
7	— —•••
8	— — —••
9	— — — —•

If the word is:	Respond at frequency:
shell	3.505 MHz
halls	3.515 MHz
slick	3.522 MHz
trick	3.532 MHz
boxes	3.535 MHz
leaks	3.542 MHz
strobe	3.545 MHz
bistro	3.552 MHz
flick	3.555 MHz
bombs	3.565 MHz
break	3.572 MHz
brick	3.575 MHz
steak	3.582 MHz
sting	3.592 MHz
vector	3.595 MHz
beats	3.600 MHz

# GUEST CONTRIBUTION

By Kent Gardner WA7AHY

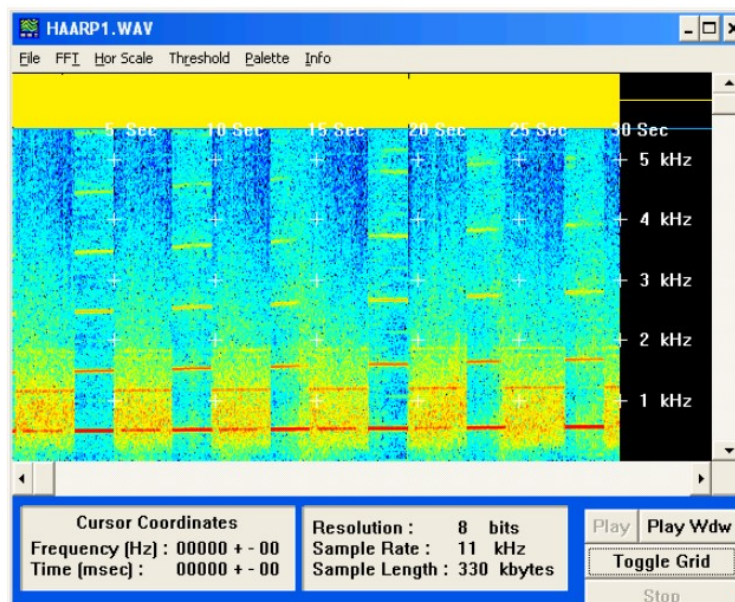


## HAARP is Back

I remember back in “aught 8” when I first heard about the High Frequency Active Auroral Research Program (HAARP). Myself and two other members of the club, Jeff Anderson, KD7PAW, and Jim Southwick, N7JS, recorded signals, using three different methods, that originated from the HAARP facility up in Alaska. See the June 2008 issue of *Watts News*.

The HAARP antenna array consists of 180 antennas (crossed dipole antennas arranged as a rectangular, planar array) on a total land area of about 35 acres. The transmitter was in the 6 to 7 MHz range and would be on for two seconds and then off for three seconds to listen for the echoes coming back from the moon. The signal was carrier only (no modulation). To clarify, the total transmitter output power is 3600 kW (3.6 MW). There are 360 transmitters of 10 kW each. Beam forming is used to focus the IRI dipoles so that, collectively, they can have considerable gain.

The Effective Isotropic Radiated Power depends on the frequency. At lower frequencies, the maximum allowed EIRP is slightly under 0.5 GW and at higher frequencies is slightly over 3.6 GW. These limits are imposed by the FCC license for the HAARP Ionospheric Research Instrument (IRI) and not necessarily by the instrument itself. Certain frequencies are notched out and these are specified in the FCC license.



The spectrogram above shows the recording of the signals coming directly from Alaska (blue 2 second transmitting intervals) and the reflected signal from the moon (yellow three second listening intervals). The reflected moon-bounce signals were very distinctive. To hear the audio, go to

- ogdenarc.org
- click on Downloads
- look down the page and find: Scouting, Signaling & Other Stuff
- click on HAARP 2008 .wav moon-bounce

Now, in 2022, a new experiment was announced. (You can see the antenna array in the background of this visual).



Date: December 21, 2022

To: Amateur Radio and Radio Astronomy Communities

From: HAARP Program Office

Subject: Notice of Transmission

The High-frequency Active Auroral Research Program (HAARP) will be conducting a research campaign on December 27, 2022, with transmissions between 1100-2300 UTC (0200-1400 AKST). Actual transmit times are highly variable based on real-time ionospheric conditions. All information is subject to change.

This campaign will be in support of a NASA Jet Propulsion Laboratory project, in collaboration with Caltech's Owens Valley Radio Observatory Long Wavelength Array (OVRO-LWA) and the University of New Mexico Long Wavelength Array (UNM-LWA), testing the potential use of HAARP/OVRO-LWA/UNM-LWA for interior sensing of Near-Earth asteroids (NEAs). This experiment will reflect HAARP transmissions off of NEA 2010 XC15, and the echo will be received by OVRO-LWA and UNM-LWA. The target asteroid will be roughly two lunar distances away from Earth at the time of transmission.

Characterizing the interior structure and composition of NEAs is critical for advancing our understanding of solar system evolution and aiding in planetary defense. Multiple lines of evidence indicate that many, if not most, NEA interiors are rubble piles, with a subset that are monolithic solids, but definitive answers will influence the response to potentially hazardous objects.

The proximity and frequency of NEA flybys creates opportunities to repeatedly probe and study the interiors of NEAs using ground-based radar systems and to fill a strategic knowledge gap in our understanding of these objects.

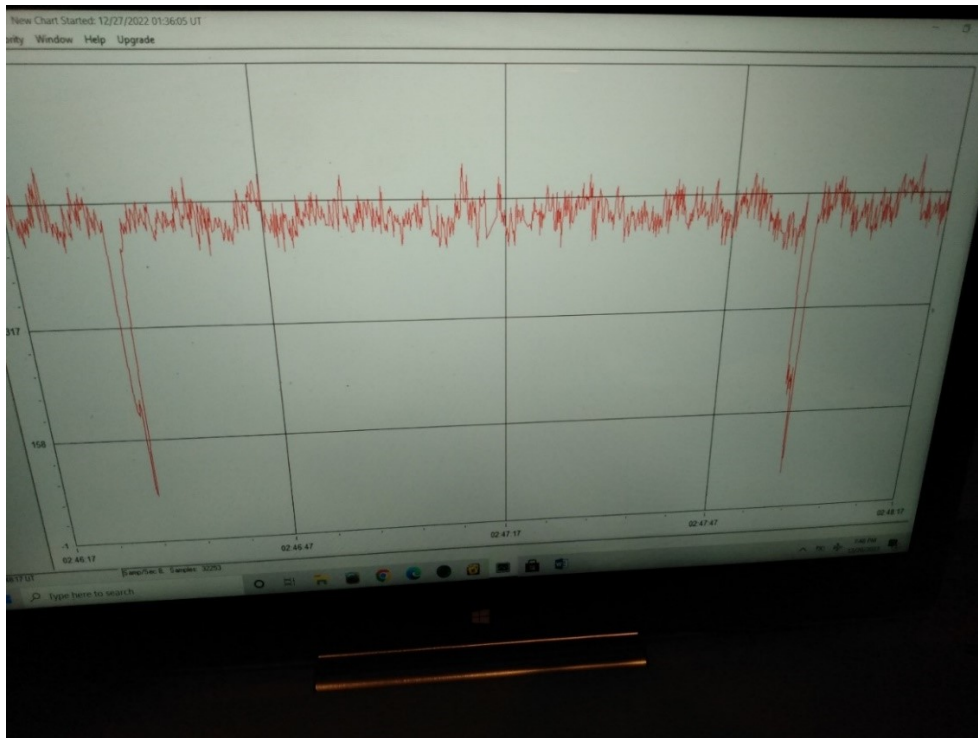
Amateur radio and radio astronomy enthusiasts are invited to listen to the transmissions/echoes and submit reception reports to the HAARP facility at [uaf-gi-haarp@alaska.edu](mailto:uaf-gi-haarp@alaska.edu).

Experiment Dates/Times (UTC) Frequency (MHz) Notes

Asteroid Bounce off of NEA 2010 XC15, Dec. 27, 1100-2300

9.6 LFM, 0.5 Hz WRF, 30 kHz bandwidth (I listened on 9.6 MHz USB).

The following Skypipe line chart shows 2 events while listening to 9.6 MHz. The main trace just shows noise.



The picture was taken by my cellphone camera directly off the computer screen.

The 2 events shown by the downward traces above, show two different transmissions, but both showing the same characteristics and waveform. Both Jim Southwick and I heard these same sounds and thought that these could be the HAARP transmitter.

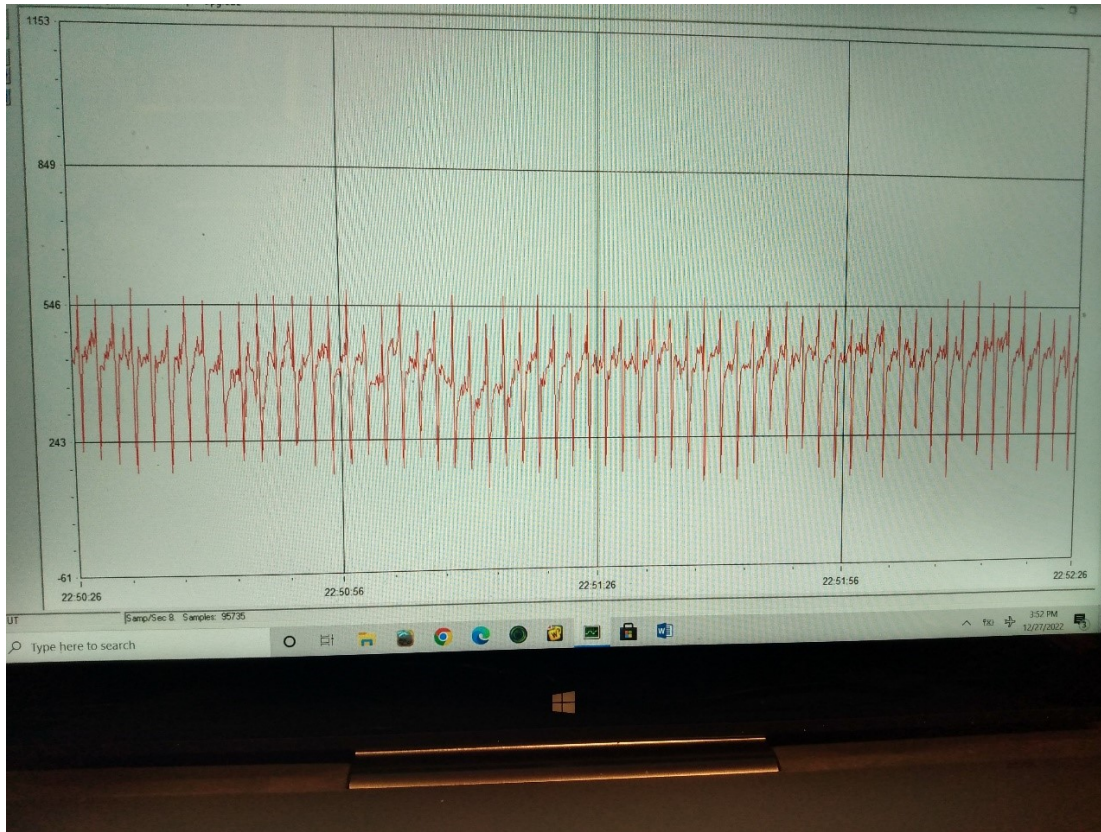
It turns out, after sending the chart to a fellow Society of Amateur Radio Astronomers (SARA) engineer, Whitham Reeve, who was leading the SARA effort from Alaska, that they were not the radar like signals. We both heard the same signals at other times later in the transmissions. Interestingly enough, the raspy sounds seemed to be preceded by a Morse code letter. The letter "F" seemed to be the most used, but I also heard the letter "S". I determined that these raspy sequences were also heard outside the HAARP transmission window, When the actual HAARP transmissions stopped and after a few minutes, I actually heard the raspy signal by itself. This seemed to indicate that it was from another entity. To hear the audio recording go to:

- go to [ogdenarc.org](http://ogdenarc.org)



- click on Downloads
- look far down the page and find Scouting, Signaling & Other Stuff
- click on HAARP mystery pulses not HAARP.mp3

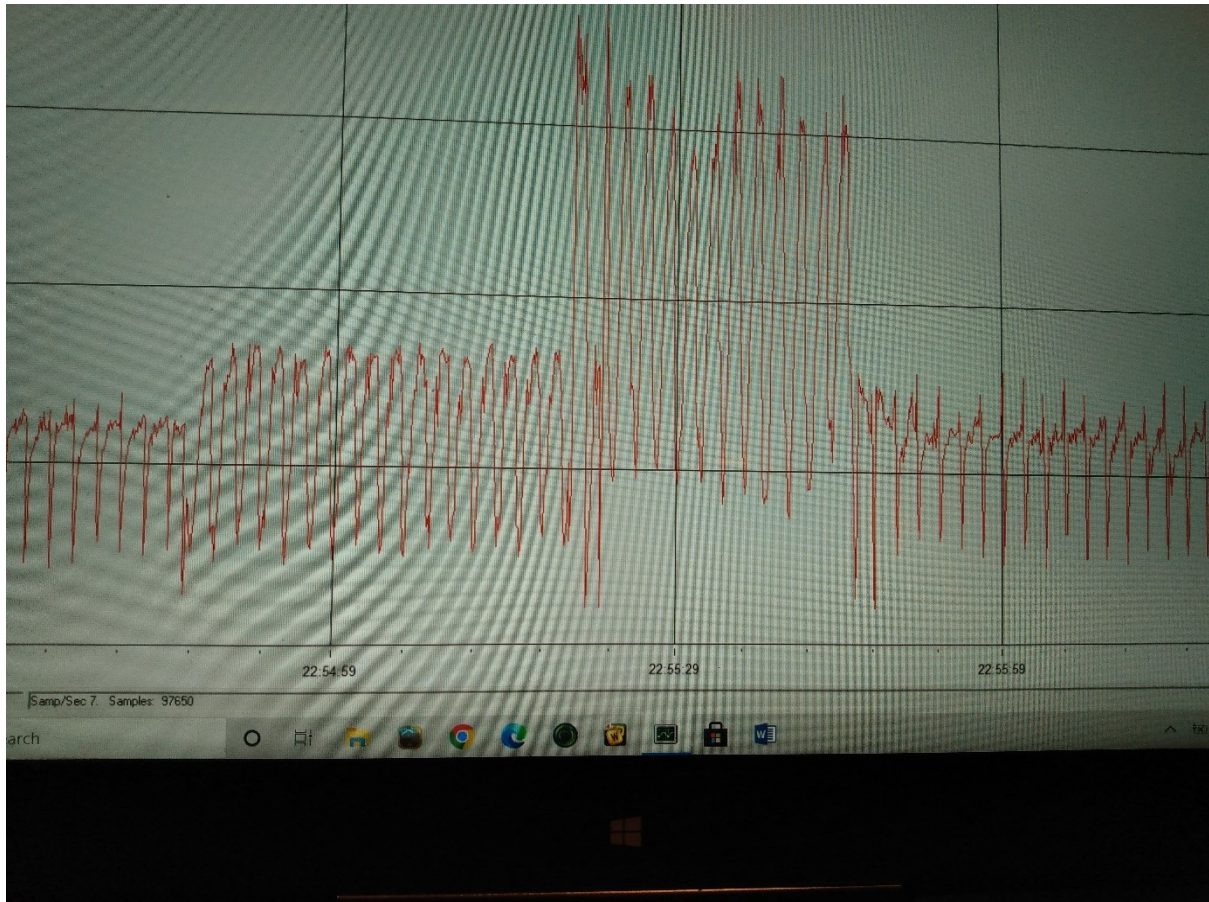
I was told by my SARA friend in Alaska, that the actual signals would be more chirp-like with there being a 2-second interval between the chirps. This was like a radar signal that transmitted, then listened for the echo. The picture below, also from my cellphone, shows the 2-second chirp waveforms.



To hear it::

- go to [ogdenarc.org](http://ogdenarc.org)
- click on Downloads
- look far down the page and find Scouting, Signaling & Other Stuff
- click on HAARP chirp Dec 2022.wav

I am now going to throw in another screen picture. Near the end of the experiment, I switched between USB, LSB and, I think AM. It has been long enough since I recorded everything that I don't remember what order I switched between the USB/LSB/AM modes. I also don't remember whether the chirps would swing up with USB and down with LSB or vice versa. I did not retrieve the audio from this switching exercise. I haven't been able to get the "waviness" out of the picture. It is clear when I first cut-and-paste it in, but exhibits the waviness when I try to use my mouse on the text on the same page.



I was unable to single out any echoes. They would have been extremely weak. This is where Owens Valley, California and the UNM/LWA antennas near Socorro, NM would have a better chance. I did hear the moon echoes back in 2008.

So, what can we learn about HAARP. There have been ongoing efforts by the world scientists, as a whole, in trying to keep track of these asteroids that may be a threat to the earth. Awhile ago, they crashed a space probe into an asteroid to see if it's orbit could be changed in hopes that this technology might push an asteroid out of harms way in the future. Most asteroids are basically piles of rocks and by retrieving their radio and radar signatures, more could be learned about them for our safety.

The original HAARP experiments were thought to be a conspiracy of some kind. Over the years though, this attitude has mellowed quite a bit after seeing more experiments that are helpful in improving communications world-wide and actually being beneficial by learning about the near-earth asteroids.

## **NASA and HAARP conclude asteroid experiment**

A powerful transmitter in remote Alaska sent long wavelength radio signals into space Tuesday with the purpose of bouncing them off an asteroid to learn about its interior.

The asteroid, 2010 XC15, is estimated to be about 500 feet across and is passing by Earth at two lunar distances, which is twice the distance between the Earth and the moon.

TNX

Kent Gardner, WA7AHY, Jim Southwick, N7JS, Whitham D. Reeve, Anchorage, Alaska USA



## Utah Students Talk to an Astronaut on the International Space Station

Amateur Radio on the International Space Station (ARISS) was active on February 7, 2023, with a downlink to students in the Cache County School District in Millville, Utah.

Astronomy students from Ridgeline and Sky View high schools were able to talk to Astronaut Josh Cassada, KI5CRH, with the help of the Bridgerland Amateur Radio Club (BARC), an ARRL Affiliated Club.

Ten students were able to ask questions that ranged from how fast you're able to spin in a weightless environment, to which NASA project Astronaut Cassada thinks is most important to us as human beings.

A [YouTube](#) video of the entire event, including Astronaut Cassada's answers, is available.

ARISS is a cooperative venture of international amateur radio societies and the space agencies that support the ISS. In the US, participating organizations include NASA's Space Communications and Navigation program (SCaN), the ISS National Laboratory's Space Station Explorers program, [ARRL The National Association for Amateur Radio](#)®, and AMSAT.



Astronaut Josh Cassada, KI5CRH. [NASA,



## Rep. Lesko Introduces Bill to Replace Symbol Rate Limit with Bandwidth Limit

12/22/2022

Congresswoman Debbie Lesko (AZ-08) introduced a bill in the U.S. House of Representatives ([H.R. 9664](#)) on December 21, 2022, to require that the Federal Communications Commission (FCC) replace the current HF digital symbol rate limit with a 2.8 kHz bandwidth limit.

After being petitioned by ARRL The National Association for Amateur Radio® in 2013 (RM-11708) for the same relief, in 2016 the Commission issued a Notice of Proposed Rulemaking (WT Docket No. 16-239) in which it agreed that the HF symbol rate limit was outmoded, served no purpose, and hampered experimentation. But the Commission questioned whether any bandwidth limit was needed in its place. Most amateurs, including the ARRL, objected to there being no signal bandwidth limit in the crowded HF bands given the possibility that unreasonably wide bandwidth digital protocols could be developed, and since 2016 there has been no further FCC action.

In conjunction with introducing the legislation, Congresswoman Lesko stated that “With advances in our modern technology, increased amounts of data can be put on the spectrum, so there is less of a need for a regulatory limit on symbol rates. I am pleased to introduce this important piece of legislation to update the FCC’s rules to support the critical role amateur radio operators play and better reflect the capabilities of our modern radio technology.”

ARRL President Rick Roderick, K5UR, hailed introduction of the bill. Roderick stated that “the FCC’s delay in removing this outdated restriction has been incomprehensible, given that the biggest effect of the delay is to require totally inefficient spectrum use on the already-crowded amateur HF bands. I hope that the Commission will act to remove this harmful limitation without waiting for the bill to be passed.”

ARRL Legislative Committee Chairman John Robert Stratton, N5AUS, added that “the symbol rate limit hampers experimentation and development of more efficient HF data protocols by U.S. amateurs. For all practical purposes the field has been ceded to amateurs outside the U.S., where there is no comparable limit. Removing the restriction not only will allow U.S. amateurs to use the most efficient data protocol suitable for their purpose, but it also will promote and incentivize U.S. amateurs to experiment with and develop even more efficient protocols.”

# O'bay Swap

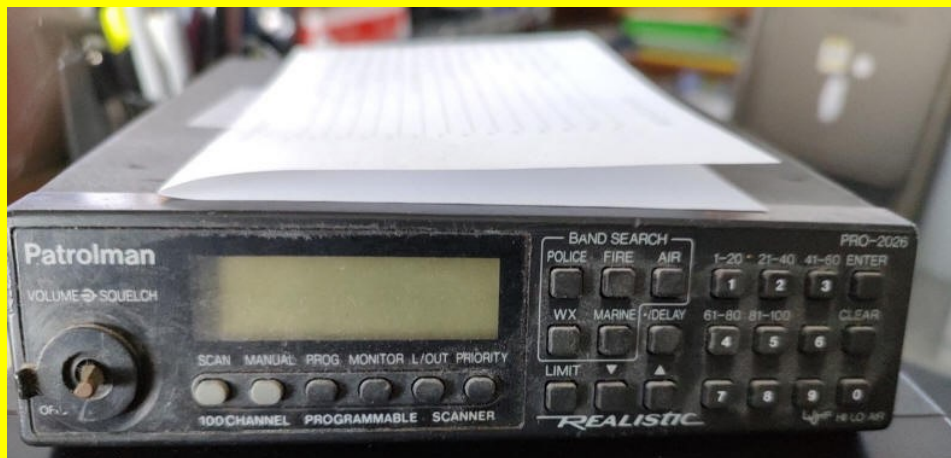
SWAP ITEM # 237, 239

FOR SALE:

**DAIWA CNW-518 Manual Antenna Tuner with Instruction Manual**



**Realistic Patrolman PRO-2026 Scanner**



<http://OgdenARC.org/swap.html>

# O'bay Swap

SWAP ITEM # 235

FOR SALE:

## KENWOOD TS440s HF Transceiver

Its in like new condition and works perfectly. It has an internal tuner and the stock filters.



<http://OgdenARC.org/swap.html>

## O'bay Swap

(repeat)

### SWAP ITEM # 225

FOR SALE: Misc Antenna: equipment, parts, cables, etc. (donated to OARC)

REFER TO CHART: Donation Inventory

ASKING PRICE: \$ make offer \$ (as a donation to your club)

CONTACT: Gene Morgan WB7RLX, 801-540-4907, ee\_morgan@outlook.com

<http://OgdenARC.org/swap.html>

**CLUB REFERENCE MATERIAL**



## CLUB REPEATER NEWS



Scott Willis KD7EKO



Mike Fullmer KZ7O

**Scott Willis KD7EKO and Mike Fullmer KZ7O are the OARC repeater engineers that keep our club repeaters at Mt Ogden and Little Mountain operational.**

# OARC MEMBERSHIP DRIVE

## SUPPORT YOUR RADIO CLUB

Don't forget to signup/renew your OARC membership now (\$15) which runs August to August. Consider signing up your spouse as well. Remember ... FREE Steak at Steak Fry for ALL members.

Ham + Spouse = \$15 + \$10 = \$25

THANK YOU FOR YOUR SUPPORT

## Join OARC

### Join or Renew your membership now!

**Joining & Renewal is easy.** On the club website home page click Join/Renew tab and fill out the membership form. You can pay using your PayPal or mail a Check or Money Order to the club PO Box listed. Or print a hardcopy of the membership form, fill it out and mail it to the PO Box along with your payment. Better yet, Come to a club meeting and bring the completed membership form with you.

**DUES:** Dues are \$15.00 per person and runs August - August. (Ham + spouse = \$25.) More than one ham in the family? Consider the OARC Family plan for \$25.

**NOTE: New Hams >>>** Membership in OARC is complimentary for remainder of 1st year licensed.

Membership in the Ogden Amateur Radio Club is open to anyone interested in Amateur Radio. You do not need an amateur license to join us. You do not need to join the club to participate with us. Dues are used to operate the club, field day activities, and repeater equipment maintenance.

## Club Badges

OARC Club badges are available for all licensed club members.

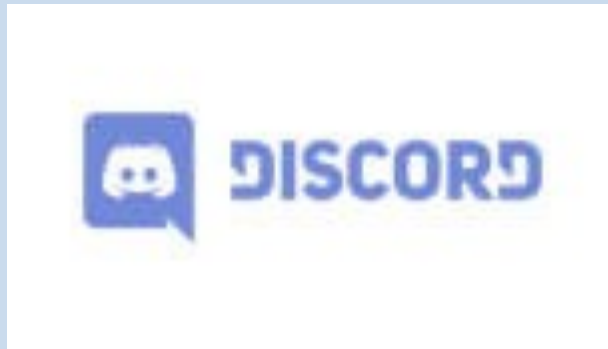
The cost is **\$12.00** each. The badge comes with a “MAGNETIC” clip. Badge includes your Call Sign in large letters and your First Name in a somewhat smaller font in white lettering on a pitch black background with the club logo. See example below.



Place your order along with **\$12.00** prepaid in advance for each badge ordered and specify Call Sign and First Name.

Visit the club website home page Join/Renew tab and select the Badge Order form to order your badge. You can use PayPal or mail your check to the club PO Box.

## OARC Discord Page



**Did you know that OARC has a Discord page ?**

**What is a Discord Page you ask?**

**It is OARC's new discussion group site.**

**Just click on the icon on the bottom of the club website home page to join and visit OARC's ongoing discussion threads. Check it out!**

## OARC Facebook Page



**Did you know that OARC has a Facebook page ?**

**Just click on the icon on the bottom of the club website home page to visit OARC's ongoing monthly activities and events. Check it out!**

## OARC You Tube Channel



### **Did you know that OARC has a You Tube Channel ?**

**A lot of our meeting presentations are recorded and posted to our OARC You Tube channel for you to view at a later date.**

**It's easy to view missed**



**meetings...**

**Just click on the icon on the bottom of the club website home page to view recorded meetings preserved for your viewing pleasure. Check it out!**

## ANNOUNCEMENTS

### Next Club Meeting:

**3<sup>rd</sup> Saturday of each Month**

The Ogden Amateur Radio Club meetings are usually held on the **3<sup>rd</sup> Saturday** of each month.

### Meeting/Activity:

**See monthly notices earlier in this newsletter.**

Talk-in: - 448.600 (pl 123.0)

Check OARC web site for details

**[www.ogdenarc.org](http://www.ogdenarc.org)**

Please invite a friend to join you. You do not have to be a member of the club to participate in our club meetings or activities. We invite all to join us.

If anyone is interested in doing a presentation on something or just have something unique to show at the meetings. - Please get a hold of any of the officers and let us know.

### Next Weber Co VE Test Session:

**1st Wednesday Feb, Jun & Oct**

Exam sessions are held in Ogden every few months, **usually** the first Wednesday in February, June, and October.

**Time: 06:00 PM** *Walk-ins allowed*

**Location: Permanent location**

**Utah Military Academy  
5120 S 1050 W  
Riverdale UT 84405**

**Contact: VE Liaison:**

**Rick Morrison W7RIK** (Co-Liaison)

**[morrisonri@msn.com](mailto:morrisonri@msn.com)** (801-791-9364)

**Gil Leonard N7GIL** (Co-Liaison)

**Jason Miles KE7IET** (IT)

**Cost: \$ 14.00**

Two forms of **ID**, one of which must be a **picture ID**.

For "Upgrades" bring current **license** and a **copy** of current license, and any **CSCE's**

Most **calculators** allowed. Calculator memories must be cleared before use.

## AREA CLUB MEETINGS & WEB SITES

CLUB	WEB SITE	DATE/TIME	LOCATION
OgdenARC	<a href="http://ogdenarc.org">ogdenarc.org</a>	3 <sup>rd</sup> Saturday 09:00 am	Check OARC web site ...
WC Sheriff Comm-O		1 <sup>st</sup> Saturday 10:00 am	Weber Co. Sheriff Complex West 12 <sup>th</sup> Street Ogden Utah
Barc	<a href="http://barconline.org">barconline.org</a>	2 <sup>nd</sup> Saturday 10:00 am	Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut
CSErg	<a href="http://dcarc.net/ares.htm/">dcarc.net /ares.htm/</a>	Last Wednesday 8:30pm	Clearfield City Hall Clearfield Utah
DCarc	<a href="http://dcarc.net">dcarc.net</a>	2 <sup>nd</sup> Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	<a href="http://home.comcast.net/~noutares/">home.comcast.net/ ~noutares/</a>	3 <sup>rd</sup> Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	<a href="http://xmission.com/~uarc/">xmission.com /~uarc/</a>	1 <sup>st</sup> Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
UVarc	<a href="https://uvarc.club">https://uvarc.club</a>	1 <sup>st</sup> Thursday 6:30 pm	Orem City Council Chamber Room 56 North State St. Orem Utah
GSarc	<a href="http://Ubetarc.org">Ubetarc.org</a>	Check Website	Check Website
Utah DX Association	<a href="http://udxa.org">udxa.org</a>	3 <sup>rd</sup> Wednesday check web page for details	check web page for details Salt Lake City area
UvhfS	<a href="http://ussc.com/~uvhfs/">ussc.com /~uvhfs/</a>	Each Tuesday 8:00 pm (refer to web site)	Weekly 2 meter net (no eye ball meetings)
WDArc	<a href="http://westdesertarc.org/">westdesertarc.org/</a>	1 <sup>st</sup> Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	<a href="https://groups.google.com/forum/#!forum/wsuarc">https://groups.google.com/forum/#!forum/wsuarc</a>	3 <sup>rd</sup> Thursday 5:30 pm	WSU Blding #4 Room ? Ogden Utah



## Club Web Site

Be sure to visit our club web site.

[www.OgdenARC.org](http://www.OgdenARC.org)

Club membership is open to anyone interested in Amateur Radio. You do not need an amateur license to join us. Dues are used to operate the club, field day activities, and repeat-er equipment maintenance.

## Club Call Sign

Listen to the club repeaters for this very familiar CW ID. You do know Morse Code don't you?

**W7SU**

## OARC is 100 years old

OARC was established in May 1921 and became ARRL affiliated in 1937.

<b>OARC REPEATERS</b>			
(*) Yaesu Fusion digital/FM compatible			
FREQ	CLUB	TONE	LOCATION
146.900-	OARC (*)	125 DCS	Mt Ogden (w/WiresX)
448.600-	OARC (*) "talk-in"	123.0	Mt Ogden
146.820-	OARC (*)	123.0	Little Mtn
448.575-	OARC	100.0	Little Mtn (no autopatch)

FREQ/Offset	TONE	LOCATION	OWNER
145.250 -	PL 123.0	Weber State Univ	WSC
145.290 -	PL 123.0	Brigham City	GSARC
145.330 -	PL 100.0	BYU (Provo)	BYUarc
145.430 -	PL 123.0	Brigham City	GSARC
145.470 -	PL 123.0	Powder Mountain	WCSO
145.490 -	PL 100.0	Promontory Point	K7JL
146.620 -	PL none	Farnsworth Peak	UARC
146.640 -	PL none	Logan	BARC
146.720 -	PL 103.5	Mount Logan	BARC
146.760 -	PL none	Lake Mountain	UARC
146.780 -	PL 100.0	Lake Mountain	UVARC
146.920 -	PL 123.0	Promontory Point	WCSO
147.040 +	PL 123.0	Antelope Island	DCARC
147.100 +	PL 123.0	Morgan County	KB7ZCL
147.120 +	PL 100.0	Farnsworth Peak	UARC
147.220 +	PL 123.0	Brigham City	GSARC
147.260 +	PL 103.5	Promontory Point	BARC
147.360 +	PL 100.0	Lewis Peak	Summit Co ARC
447.200 -	PL 127.3	Antelope Island	DCARC
447.225 -	PL 100.0	Malad Idaho	Malad Repeater
447.775 -	PL 123.0	Powder Mountain	WCSO
448.300 -	PL 123.0	Brigham City	GSARC
448.775 -	PL 123.0	Promontory Point	WCSO
448.825 -	PL 123.0	Clearfield City	IRLP Node 4654
449.100 -	PL 146.2	Farnsworth Peak	UARC
449.250-	PL 123.0	Weber State Univ	WSC
449.425 -	PL 100.0	Nelson Peak	IRLP - Western
449.500 -	PL 100.0	Farnsworth Peak	UARC
449.625 -	PL 103.5	Mount Logan	BARC
449.925 -	PL 100.0	North Salt Lake	DCARC
449.950 -	PL 123.0	Clearfield City	IRLP Node 3876
ATV - wb7fid	TV Ch 58	Farnsworth Peak	UARC - Utah ATV

## LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz <b>HF LSB</b>
Daily @ 07:30 PM mt	Utah Code net HF	3.570 Mhz <b>HF CW</b>
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz <b>HF LSB</b>
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz <b>HF LSB</b>
Sunday @ 7:15 PM	Weber/Davis ERC	146.820 - 123.0 (ERC training net)
Sunday @ 7:30 PM	GS ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan Co Net	147.100 +123.0
Sunday @ 9:00 PM	UARC Info net	146.620- no PL tone required
Monday @ 9:00 PM	2-meter SSB net	144.250 Mhz <b>2-meter USB</b>
<b>Tuesday @ 6:30 PM</b>	<b>OARC—Ham &amp; Eggs Net</b>	<b>448.600 -123.0</b>
<b>Tuesday @ 8:00 PM</b>	<b>Weber ARES</b>	<b>448.600 - 123.0</b>
Tuesday @ 8:00 PM	DCARC TECH Net	147.040 + 123.0
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 7:00 PM	Am-Con Northern Utah	448.600 -123.0
Wednesday @ 8:00 PM	GS ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSEARG	145.770 simplex
Wednesday @ 9:00 PM	No. Utah 10m HF net	28.313 Mhz <b>HF USB</b>
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz <b>6-meter USB</b>
<b>Thursday @ 7:00 PM</b>	<b>OARC - 10 Meter Net</b>	<b>28.385 MHz USB (all hams invited)</b>
Thursday @ 7:30 PM	Davis Co ARES	147.420 = simplex & 449.925 -100.0
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM (3rd Thurs)	State RACES VHF/IRLP	145.490 - 123.0, 146.680 - 123.0
Thursday @ 9:00PM	Wasatch Back Net	147.360 + 100.0
Saturday @ 8:00AM mt (3rd Sat)	RACES State HF	3.920 Mhz <b>HF LSB</b>
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz <b>HF LSB</b>

**73 de W7SU**

**[www.OgdenARC.org](http://www.OgdenARC.org)**

**w7su@arrl.net**

**PO Box 3353 Ogden UT 84409**