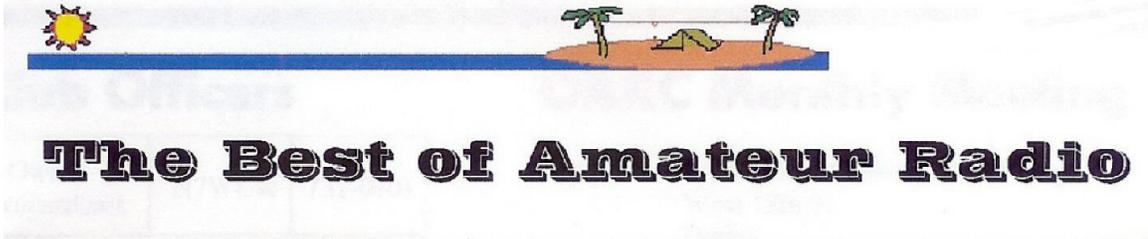




WATTS NEWS



Welcome to the OARC e-Magazine

www.OgdenArc.org

MARCH-APRIL 2007

Next Club Meeting

3rd Saturday April 21, 2007; 09:00 am

Topic: Stan Sjol - Amateur Radio Operator Awards



Mike Fullmer KZ7O
President



James Clarke KD7SWL
Vice President



Joan Fullmer N7OLZ
Secretary



Jim Southwick N7JS
Treasurer



Stan Sjol W0KP
Director #1



Kent Gardner WA7AHY
Director #2



Gary Liptrot NTZI
Past Pres - Advisor



Val Campbell K7HCP
Webmaster/Editor

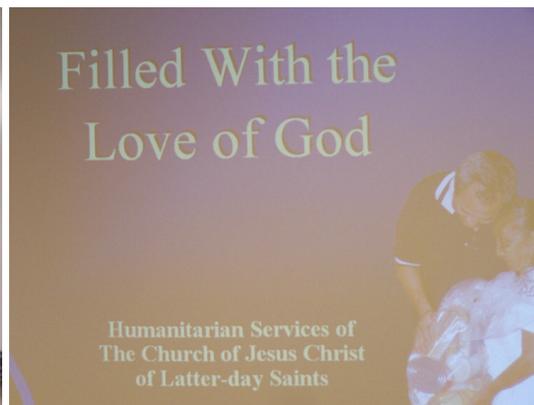
PREVIOUS CLUB MEETING(S)

3rd Saturday February 17, 2007 & 3rd Saturday March 17, 2007

3rd Saturday February 17, 2007

Dr Susan Puls KE7FBK presents: Humanitarian Relief & Emergency Services

- Susan is a retired Orthopedic Surgeon from Florida currently living in Ogden Valley.
- She does full time volunteer Humanitarian Relief work for the LDS church.
- She is an OARC club member and was licensed about 2 years ago.
- Susan is interested in incorporating emergency communications into her Humanitarian Relief work effort and therefore has pursued Amateur Radio to learn emergency communications skills.



February Meeting Door Prize Winners (21) - Thanks Stan

K7hcp - Val
Wa7ahy - Kent
K7r fw - Ray
Af7j - Tom
Kg4vsl - Jerry
Ko7u - Kim
N7hcp - Maggi
Kc8ftv - Robert
Ad7hi - Dan
N7qws - Andy
Kd7paw - Jeff
K7tip - Tim

N7zi - Gary
N7js - Jim
K7ud - Don
W7dnh - Carol
W7dni - Michael
N7olz - Joan
K7cds - Chris
kd7swl - James
Ke7lba - Kimbal

Saturday March 17, 2007

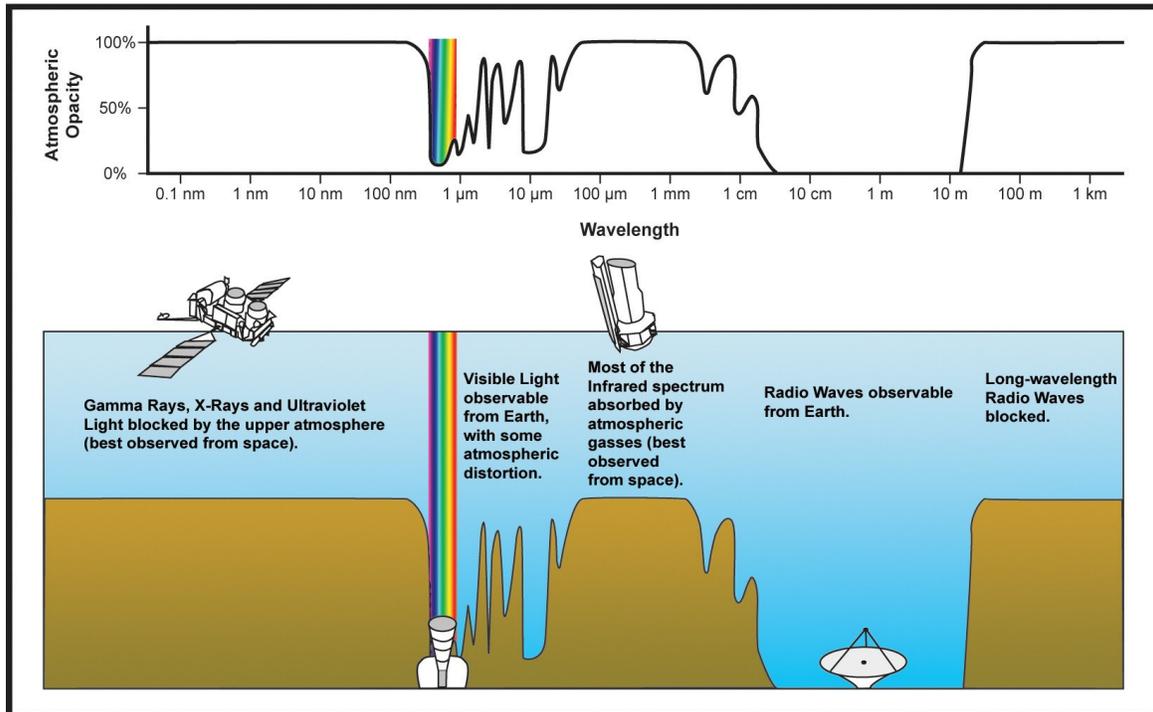
Dale C. Hooper presents: Amateur Radio Astronomy - My Adventure and the Possibilities

I was born and raised in Roy, Utah and I currently live in Hyde Park, Utah (Cache Valley) with my wife Alice and five kids. I graduated from Roy High School in 1978. I received a B.S. degree in Applied Mathematics from Weber State University and an M.S. degree in Computer Science from Utah State University.

I presently work as a software engineer at the USU / Space Dynamics Laboratory where I've been employed for the past twelve years. I've developed analysis software, ground support software, calibration software and real-time flight software. I developed flight software for the Solar Occultation for Ice Experiment (SOFIE) instrument which is part of the NASA Aeronomy of Ice in the Mesosphere (AIM) satellite which is scheduled to be launched in May 2007. I'm currently creating

embedded flight software as well as software for instrument calibration.

I've been a member of the Ogden Astronomical Society (OAS) since 1975 and continue to be an active member. One of the past OAS presidents, and my good friend, is OARC member Gary Liprot. I'm also a member of the Society of Amateur Radio Astronomers (SARA). I'm interested in just about everything related to amateur astronomy. I built and operate an observatory from my back yard (minor planet center observatory code G87) from where I use a 10 inch Meade LX-200 Classic telescope, CCD cameras and of course my 10 foot dish radio telescope. I'm especially interested in minor planet (asteroid) observations, spectroscopy, asteroid occultation and radio astronomy.



March Meeting Door Prize Winners (18) - Thanks again Stan

- KE7ELF - BETH
- KZ7O - MIKE
- KE7IES - BRETT
- N7JS - JIM
- KO7U - KIM
- KD7SWL - JAMES
- N7ZI - GARY
- WA7AHY - KENT
- KK7UD - ALAN

- K7TIP - TIM
- N9NZ - MIKE
- AD7HI - DAN
- KE7KAA - WILLIAM
- NM7P - MEL
- KC7KYY - SAM
- KE7JDG - WILLIAM
- KE7HPQ - BILL
- KE7LVE - ARNOLD

A MESSAGE FROM OUR PRESIDENT

Mike Fullmer KZ7O



March Message

It is March, almost Spring! But I still have snow on the north side of my house! Oh well, at least it is not 5° at night any more.

I saw a number of the club members at the VHF Society meeting in February. I enjoyed it. Hope those that went enjoyed it also. I spent some money there though so I did not come back empty handed.

We should have an interesting club meeting this month, radio astronomy. We have several members of the club that like to look at stars and we have someone from USU coming to talk to us. See a description later in the newsletter.

We have a number of activities coming in the next few months. I will cover them in three sections. Energy Solutions Field Trip Kent has arranged a field trip to Energy Solutions to see what they really do. If you want to see the facility for yourself and see if you can really develop a "glow" by visiting the place then you will be interested in this. We have set a tentative date of Saturday, April 28th (May 12th as a backup) We will meet them at their offices in Salt Lake City at 7:45am. They will take us into their offices and give us an introduction of what they do. They will then load us on a bus and take us to one of their sites out past Toolla. They will provide a sack lunch for the return trip to eat on the bus. We would get back between 1 and 2pm. We will talk about it at the club meeting. Look at your schedules. We need an approximate count at the club meeting how many will be interested in going.

Scout O Rama

We have been asked to assist with the Scout O Rama on May 19 at the Weber County Fairgrounds. We don't know all the details yet. They may want some communication assistance with activities. We will probably have a Special Event type of station set up with an HF radio to demonstrate Ham Radio. This is the same day as the Ogden Marathon which some hams assist with. The ARES group will take care of the marathon but need help with the Scout O Rama. So we have a lot of things going on that day. Because it is on club meeting day we have a problem. We need the club members opinions as to whether we have a few people at the Fair and still have a normal club meeting or should we cancel the club meeting and ask those that can to go to fairgrounds and visit. We would like your vote at the club meeting.

Field Day

Field Day is fast approaching. It is June 23 and 24th. It will be at the same place as the last two years, up by Pineview. We are looking for some items and want to know if someone has one of these that could bring up:
Portable HF vertical antenna or beam - we want to try something different than the loops for an antenna.

Large tent/canopy with roll up sides for setting up one station in.

If you have one of these that you would consider letting the club to use let us know.

See you at club meeting,
Mike, KZ7O

April Message

April showers bring May flowers they say. Well I hope that there are some April showers. It looks to be a dry year so far.

Val apologizes for no Watts News in March, he was on death's bed for 3 weeks the first part of March, but is doing much better now.

The club meeting in March was interesting. I knew what Radio Astronomy was in principle but never realized that it really is just using specialized receivers similar to ham radio receivers. In fact our presenter used a ham radio transceiver as his first radio astronomy receiver. He could talk with it at one moment and then use it for radio astronomy work the next. But then he graduated to a much more serious and sensitive receiver. I did not realize that there is so much commonality between the two hobbies.

This month's meeting is being presented by Stan, W0KP. He is talking about many of the different operating awards that are available to hams. Since there are lots of new hams with HF privileges he will talk about the various awards a person can earn. Just about every weekend there is some kind of contest on HF that may be just a local contest like a state QSO party all the way to a big contest, like the prefix contest a few weeks ago. There is the Country Hunters, Worked all States, DXCC, and on and on. This will be good meeting if you want to understand these awards.

Be aware, there is the 2nd annual run of the 7QP QSO party coming up on May 5. Maybe Stan will talk about this. This is where the contest people try to get a ham in every county of the 7th call area on the air. The club operated a station last year for a couple of hours. If there is interest we could do the same this year. I will be Ephraim that day but I am already thinking about putting the HF rig in the car to operate from Sanpete County.

I did participate with one contest a little a few weeks ago, the Prefix contest. This is where you get points for making contacts with people that have unique prefix's on their call signs. As a KZ7 prefix I am liked by most of the big stations that want a new prefix. So I always try to make a few contacts. I think I made 40 contacts that Saturday afternoon and early Sunday morning.

The Energy Solutions tour will be interesting and I am planning on being there.

See you at club meeting.
Mike, KZ7O

Next Club Meeting

When: 3rd Saturday April 21, 2007

Time: 09:00 AM

Location: Riverdale Fire Station
(See OARC website for MAP)

Topic/Activity: Stan Sjol - Amateur Radio Operator Awards

The April meeting will feature an overview of some of the more popular operating awards available to Amateur operators.

Whether you are newly licensed, new to HF operation or an old timer, you may be interested in the sources of "wallpaper" that are available to you.

Talk-in: -146.90 (pl=123)

CLUB NEWS

Congratulations to the following NEW Hams Licensed or Upgraded at our Weber County VE Test Session **NEW!**

- **Technician**
 - **Michael D. Carter --- KE7LBB**
 - **Kimball F. Kelsey --- KE7LBA**
 - **Russell R. Lewis --- KE7LAZ**
 - **Parker C. Michaelson --- KE7LAW**
 - **Johnathan C. Parkes --- KE7LAX**
 - **Colby L Vanderbeek --- KE7LAY**
 - **Daniel L Weatbrook --- KE7LBC**

- **General**
 - **Jacob L. Anawalt --- KD7YKO**
 - **Lucas P. Chan --- W7XYB**
 - **Rodney D. Meyers --- KC7VKZ**
 - **Elias R. Salazar --- KD7JRX**
 - **Chistopher D. Smith --- K7CDS**
 - **Phillip A. Toone --- KB7PCU**

MORE CLUB NEWS

Congratulations to the following OARC members that were either licensed for the first time or upgraded to a higher license class recently.

- **Arnold Figueroa (General) KE7LVE**
- **Emilse Peraza (General) KE7EOZ**
- **James Clarke (General) KD7SWL**

AR HOBBY NEWS

Tri-County Amateur Radio Operators Join Forces

Scotty Deffendol (K7NAL)

Amateur Radio operators, commonly called "Hams", in Morgan, Summit, and Wasatch Counties recently combined forces to provide lines of communication between their counties. Hams communicate with other Hams sharing common interests, and provide means of radio communication in time of emergencies, when telephones and computer systems are either not available or not functioning, and when other public radio communication systems become overloaded. Hams have the capability of communicating locally, around the state, with other states, or around the world using their radio equipment.

The Summit County Amateur Radio Club, the High Valley Amateur Radio Club in Wasatch County, and the Morgan County Amateur Radio community have formed the Wasatch Back Amateur Radio Group, which operates and manages the Tri-County VHF Net held every Thursday night at 9:00 pm.

The Tri-County Net is conducted using the 147,360 kHz repeater located on Lewis Peak in Summit County. The Offset is +600 kHz with a PL tone of 100 Hz. The secondary VHF frequency is 145,610 kHz simplex, and the hf frequencies are 7,178 and 3,825 kHz. The hf frequencies are activated only when needed.

The purpose of this net is to consolidate emergency communications among and within the three county area, encourage off net communications, message passing, and to develop

the necessary operating skills for assisting in emergency situations.

The Tri-County Net is managed and operated for the use of Member Operators in the Tri-County Area, but any Ham Operator anywhere who can access the Lewis Peak Repeater is welcome. Currently there are forty six Member Operators on the tri-county roster, from Morgan, Wasatch, Summit, Salt Lake, Box Elder, Davis, and Utah counties. There are an additional three non-licensed Support Members, that is, family members who assist in various activities and field operations. In fact, anyone is welcome to participate in the Ham community activities, licensed or not.

There is not any age restriction in the Amateur Radio hobby, so anyone of any age can become an operator. The Tri-County Net has some operators as young as 14 years old.

There are three classes of license, the entry level Technician, General, and the Extra. A written test must be taken and passed for each license class. As of February 23 there will no longer be a morse code requirement for any level of license.

Information about "how to become a Ham" can be found on the web at www.arrl.org, or if you know a Ham, ask him or her how to get started. Information concerning the Wasatch Back Amateur Radio Group and the Tri-County Net can be found at www.summitcountyar.com, or by writing to the webmaster at www.webmaster@summitcountyar.com.

The Morgan County News Friday, February 16, 2007

Thanks

Thanks to all the wonderful volunteers who worked so hard to stop the flooding at our home on Sunday, February 11. Also to the Morgan County Emergency Response member for your help and your quick

response to our problem. It's great to live in a community with such kind and helpful friends.

Ralph and Fern Carter

Thanks to Carol Petz - W7DNH

CURRENT EVENTS

- [7th Area QSO Party 2007](#) **NEW!**
Saturday May 5-6, 2007
 - [FISTS Spring Spring 2007](#) **NEW!**
Saturday May 12, 2007
 - [Pony Express Reride 2007](#) **NEW!**
passing through Utah -
 - Saturday June 16 (9:00 PM) thru Monday June 18 (02:00 AM)
-

Mountain Spirit Heritage Festival July 27-29, 2007

Mountain Spirit Heritage Festival July 27-29, 2007 at Rockport State Park (Below the Dam). We need vendors who produce their own agricultural products, artists that create art that illustrates the pioneer era, artisans that make leather products, saddles, weave and spin. We are having an old fashioned tractor display along with new tractors. If you have a tractor that you can bring, please let us know. There will also be Blue Grass Music competitions, cowboy poetry, clogging, river dancing, blacksmithing. A wagon train is going to come down Echo Canyon on Friday and arrive at the park on Saturday. If you have a horse drawn wagon and want to ride or if you have a horse and want to be a wrangler, contact us. We also are having horse drawn haying, plowing and raking demonstrations and [a telegraph deciphering competition that is still in the development stages. We are trying to find some ham radio people out there to help with the Morse code.](#) Vendors that fit our criteria will have free space. Camping is available all three days on site. The park is along the Weber River so water is available for animals and fishing. Please contact me for more information.

Public will be charged \$5 car.

Barb Carey

Resource Conservation & Development Coordinator
Uinta Headwaters RC&D
Natural Resources Conservation Service
2210 So. Hwy 40, Suite B
Heber City, UT 84032
PH: (435) 657-1465
Cell: (435) 640-0181
FAX (435) 654-0371
email: Barbara.Carey@ut.usda.gov

FEATURE ARTICLE

WHY THERE ARE 24 HOURS IN A DAY?

Why today do we count 24 hours in a day? Why not 50, 20 or even 10? The answer is believed to date back 5000 years to Ancient Sumer, the land of the Tigris and Euphrates rivers and that became Babylon, the land the Greeks called Mesopotamia and the land today we know as the Republic of Iraq.

We believe that Sumerian, the language of Ancient Sumer, is the world's first written language. From this language we know that the first mathematics developed using the base 12 (the base we use today, base 10, came much later).

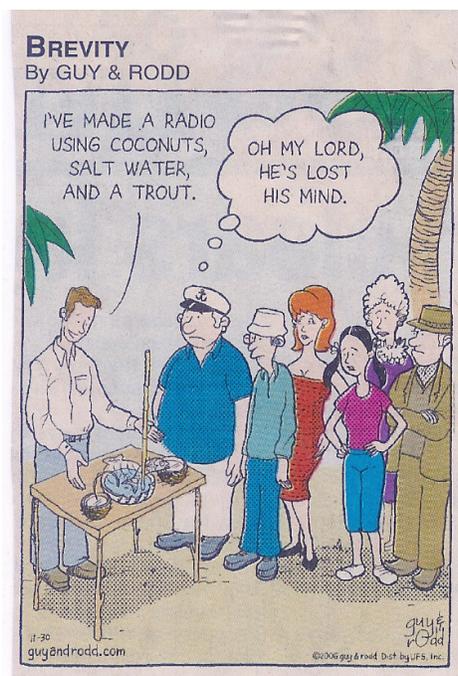
Although base 12 may seem strange to us today, it is easy to see how base 12 can be used for counting. Simply use your thumb on one hand to touch each of the three segments of the other fingers on that hand. With three segments per finger and four fingers touchable by that thumb, one can count to twelve. That formed the numeric base of the mathematics of Sumer. Having an opposable thumb was probably an important part of learning to count 5000 years ago.

Since most activities took place during periods of daylight, it was natural to divide the day into 12 units, the number that can be easily counted on one hand. Eventually, when it became important to also count the time at night, the night was also given the same number of units so 2×12 became 24 units per full day. This is believed to be the origin of our 24-hour days!

Later, when Sumer became Babylon, Babylonian mathematics used a sexagesimal counting system - everything was based on 60. Learning to do math in a sexagesimal system (with no equivalent to a decimal point or place holder) is a chore - but they were quite good at it. Base 60 makes for easy fractions, because of the significant number of divisors. So the 60 minutes in an hour, and 60 seconds in a minute came from the Babylonians.

Submitted by Larry McDavid, W6FUB to the Fullerton (California) Radio Club newsletter the *Smoke Signals* April 2005.

TNX Kent, WA7AHY



Thanks to Carol Petz - W7DNH

ANNOUNCEMENTS

Next Club Meeting:

3rd Sat April 21, 2007

- The Ogden Amateur Radio Club meetings are usually held on the **3rd Saturday** of each month.
- **Time: 09:00 AM**
- **Location: Riverdale Fire Station**

(see website for map)
- **Topic/Activity: Stan Sjol**
Amateur Radio Operator Awards
- **Talk-in: -146.90 (pl 123.0)**

Check OARC web site for details

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:

June 06, 2007 (Wednesday)

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

Time: 05:00 PM *Walk-ins allowed*

Location:

WEBER CENTER
2380 Washington Blvd,
Room # 112
OGDEN, UT 84401

Contact: VE Liaison:

Mary Hazard w7ue@arrl.net (801-430-0306)

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 **CSCÉ**'s

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

Club Web Site

Be sure to visit our club web site.

- 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 repeater equipment maintenance.

You do not need to join the club to participate with us.

Club Call Sign

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

- **W7SU**

ARRL Field Day is held on the last full weekend of June every year.

Location may vary each year so watch this notice for details as time draws near.

See you there.

OARC REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.820-	OARC	123.0	Mt Ogden
448.600-	OARC	123.0	Mt Ogden
146.900-	OARC "Talk-in"	123.0	Little Mtn (w/auto patch)
448.575-	OARC	100.0	Little Mtn (w/auto patch)

OTHER AREA REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.620-	UARC	none	Farnsworth Pk
147.120+	UARC	100.0	Farnsworth Pk
449.100-	UARC	146.2	Farnsworth Pk
449.500-	UARC	100.0	Farnsworth Pk
147.040+	DCARC	123.0	Antelope Isl
447.200-	DCARC	127.3	Antelope Isl
449.925-	DCARC	100.0	No Salt Lake
145.290-	UBET	123.0	Brigham City
145.430-	UBET	123.0	Thiokol
448.300-	UBET	123.0	Thiokol
146.640-	BARC	none	Logan
146.720-	BARC	103.5	Mt Logan
147.260+	BARC	103.5	Promontory Pt
449.625-	BARC	103.5	Mt Logan
145.250-	WSU	123.0	* coming soon
449.250-	WSU	123.0	* coming soon
145.490-	K7HEN	123.0	Promontory Pt
146.920-	N7TOP	123.0	Promontory Pt
449.775-	N7TOP	123.0	Promontory Pt
448.825-	IRLP/Echo	123.0	Clearfield City
449.950-	IRLP	123.0	Clearfield City
147.360+	Summit County	100.0	Lewis Peak

AREA CLUB MEETINGS & WEB SITES

CLUB	WEB SITE	DATE/TIME	LOCATION
Ogden ARC	ogdenarc.org	3 rd Saturday 09:00 am	Check OARC web site ...
WC ARES	ogdenarc.org/join.html#ares	2 nd Thursday 06:30 pm	Weber Co. Library Ogden Utah
WC Sheriff Comm-O		1 st Saturday 09:00 am	Weber Co. Sheriff Complex West 12 th Street Ogden Utah
Barc	barconline.org	2 nd Saturday 10:00 am	Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut
CSERG	dcarc.net/ares.htm/	Last Wednesday 8:30pm	Clearfield City Hall Clearfield Utah
Dcarc	dcarc.net	2 nd Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	home.comcast.net/~noutares/	3 rd Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	xmission.com/~uarc/	1 st Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
Ubet	27meg.com/~k7ub/	4th Thursday 6:30 pm	BE-Thiokol: 24 East 100 South Brigham City Utah
Utah DX Association	udxa.org	3 rd Wednesday check web page for details	check web page for details Salt Lake City area
UvhfS	ussc.com/~uvhfs/	Each Tuesday 8:00 pm (refer to web site)	Weekly 2 meter net (no eye ball meetings)
WD Arc	westdesertarc.org/	1 st Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	arcweber.edu	3 rd Thursday 5:30 pm	WSU Blding #4 Room ? Ogden Utah

LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz HF LSB
Daily @ 07:30 PM mt	Utah Code net HF	3.570 Mhz HF CW
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz HF LSB
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz HF LSB
Sunday @ 7:30 PM	UBET ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan Co Net	147.060 = simplex
Sunday @ 9:00 PM	UARC Info net	146.620- no PL tone required
Monday @ 9:00 PM	2-meter SSB net	144.250 Mhz 2-meter USB
Tuesday @ 6:30 PM (winter)	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM (summer)	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 8:00 PM	UBET 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 HF USB
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz 6-meter USB
Thursday @ 6:30 PM	Davis Co Elmers Net	147.040 + 123.0 New Hams
Thursday @ 7:00 PM	Davis ARES	147.420 = simplex
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	RACES State VHF	145.490 - 123.0, 146.680 - 123.0 3 rd Thursday - even months only
Thursday @ 9:00PM	Wasatch Back Net	147.360 + 100.0
Saturday @ 8:00AM mst	RACES State HF	3.920 Mhz HF LSB 3 rd Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

OARC OFFICERS

President: Mike Fullmer KZ7O
Vice Pres: James Clarke KD7SWL
Secretary: Joan Fullmer N7OLZ
Treasurer: Jim Southwick N7JS

Director #1: Stan Sjol W0KP
Director #2: Kent Gardner WA7AHY

"WATTS NEWS" e-Magazine

Editor: Val Campbell K7HCP

OTHER CLUB FUNCTIONS

Webmaster: Val Campbell K7HCP
VE Liaison: Mary Hazard W7UE
Repeater Engr: Mike Fullmer KZ7O
Past President - Advisor:
Gary Liptrot N7ZI

73 es cul de W7SU

www.OgdenArc.org