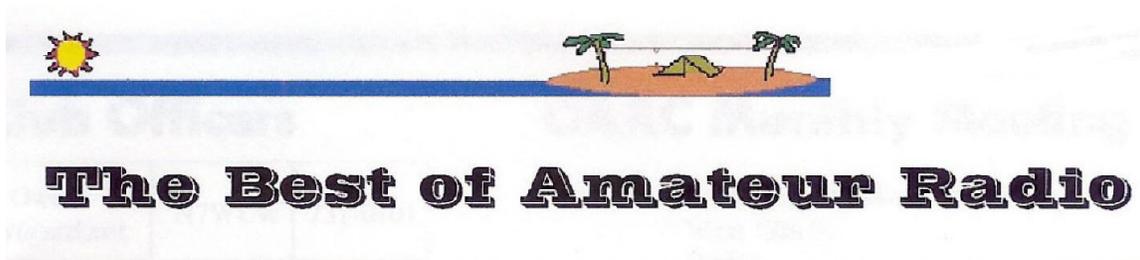




WATTS NEWS



Welcome to the OARC e-Magazine

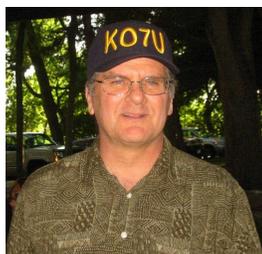
www.OgdenArc.org

JULY 2012

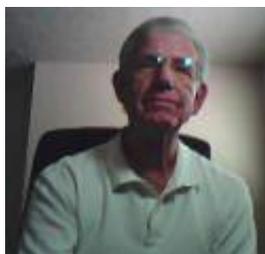
Next Club Meeting/Activity

3rd Saturday 21 July 2012

Topic: **Transmitter Hunt + free Breakfast**



Kim Owen K07U
President



Larry Griffin AD7GL
Vice President



Gary Hudman KB7FMS
Secretary



John Shupe K7DJO
Treasurer



Gil Leonard NG7IL
Program Director



Dave Woodcock WY7P
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETINGS

Saturday/Sunday 23/24 June 2012

ARRL Field Day - 24 hour over-night event









NEXT CLUB MEETING

Date: 3rd Saturday, 21 July 2012

Time: 07:00 am to 10:00 am (start from your home)

Location: Weber County (West of Mtns) and will be located in a Park somewhere within the county.

Activity: "T"-Hunt followed by Breakfast in the Park (**locate the bunny and then enjoy a free breakfast**)

Details: **The bunny will be hiding in one of the PARKS in the greater Ogden area, probably one with a bowery.**

Over-the-Air Hints: Call in on 146.90 (Little Mountain repeater) for hints - if you need.

Give Up?: Call in on 146.82 (Mt Ogden repeater) for the bunny and breakfast location.

FREQUENCY >>> 145.41 MHz simplex

Hone your skills at tracking down the location of the hidden transmitter. It will require a bit of skill and will require driving, so bring a designated driver to assist you with the challenging activity. There will be a prize for the first contestant to locate the hidden transmitter.

You can hunt the fox with your HT and a paper clip. Hold the unit down close to your chest and pirouette around and find the direction where the signal sounds the weakest. If the signal is full quieting, de-tune the radio 5 or 10 kHz until some noise is heard with the signal. When you have found the direction of weakest-sounding signal, the signal is coming from behind you. This is the direction from which your body provides the most attenuation.

Club Swapmeet

"SALE" or "WANTED" ITEMS NEEDED

OARC's *O-bay* (On-Line Swap-Meet) items needed for the web site...

Visit <http://www.ogdenarc.org/> then click on **Obay-Swap**.

JOIN OARC

Renew your membership now!

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.

Joining is easy. Come to a club meeting or [fill out an application form from the club website](#). Instructions for mailing it are on the form.

DUES: Dues are \$15.00 per person and runs September - August. Additional family members are \$8.00 each.

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

Club Badges

OARC Club badges are still available for all club members and non-members. The cost is \$8.00 each. You can order the badge with either a "PIN" clip or 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. See example below.



Place your order along with \$8.00 in advance for each badge ordered and specify Pin or Magnet style fastener, Call Sign and First Name.

Contact any club officer via email or see them at the next club meeting. See web site www.ogdenarc.org "Club Officers" page.

FROM KIM'S SHACK



Kim Owen K07U - President

CQ ALL Members and Friends of OARC

Field-day 2012 was great. Thanks to everyone that participated. The dinner Saturday night is always the highlight for me. For those that missed it, we had hamburgers, hot dogs and brats. The side dishes were a delight and the Dutch-oven peach cobbler was yummy. We had a great time.

The location of our meeting this month will be in a public park somewhere in Weber County on the west side of the Wasatch Front. It is our Fox Hunt Breakfast! Find the Fox and have breakfast. James and I have identified a location at a public park.

We will have the Fox active at 7:00 AM on Saturday, July 21st. We will start giving hints at 8:00 AM and every 15 minutes after that. We will be operating on three frequencies, the Fox frequency, the Hints and the Uncle frequency. The Uncle frequency is for those who are giving up on the hunt and consequently call "UNCLE" and their callsign or for those who just want to come out for the breakfast.

The Breakfast Fox Hunt Frequencies are:

- Fox = 145.41 MHz (simplex)
- Hints = 146.90 repeater (Little Mountain)
- UNCLE = 146.82 repeater (Mt. Ogden)

Good luck - hope to see you there!

August our meeting will be our summer steak fry and club elections. Become a board member and have more fun! I want to encourage any club member interested club leadership to contact our club secretary Gary/KB7FMS for information.

For now,
73 de Kim/K07U

CLUB NEWS

Executive Order Poses No Threat to the Amateur Radio Service

07/11/2012

On July 6, 2012, the White House released an [Executive Order](#) that addresses National Security and Emergency Preparedness (NS/EP) communications functions of the federal government. Contrary to some concerns raised in a few Amateur Radio circles, the *Order* does not appear to contain any threat to the Amateur Service or its ability to continue support communications during times of emergency or disaster. It also poses no threat to amateur spectrum.

“The purpose of the new entity, which would be created by this *Order* within the Executive Branch, appears to be to plan for future NS/EP communications and to insure survivability, hardness and interoperability, as well as to develop a long-term strategic plan for NS/EP communications,” said ARRL Regulatory Information Manager Dan Henderson, N1ND. “Based on the Amateur Service’s ongoing, positive working relationship with officials at the Department of Homeland Security’s Office of Emergency Communications, it is hard to envision that any new management plan would not include Amateur Radio. Nothing in this *Order* directly affects Amateur Radio’s daily operations.”

Utah Hamfest July 2012 (bryce Canyon - Ruby Inn)

www.UtahHamfest.org

HOBBY NEWS

Table 2
US Amateur Radio License Populations

Year	Novice	Tech/Tech+	General	Advanced	Extra	Clubs**	Total
2012 (thru March)	14,352	343,597	161,220	57,393	127,674	11,120	715,356
2010	15,731	342,191	155,781	59,387	122,951	10,840	706,881
2000*	40,155	319,735	138,625	86,545	97,977	4,745	687,782
1990	87,333	122,344	124,979	105,418	51,948	2,285	494,307
1980	82,479	92,620	121,561	96,509	36,782	2,625	432,576
1970	24,903	87,441	97,280	58,316	13,391	3,650	284,981

*FCC License Restructuring began April 15, 2000.
No new Advanced, Tech Plus or Novice Licenses issued by the FCC.
Technician Plus renewals converted to Technician licenses.

**Estimate

Table 1
Number of Exam Questions per Topic

Question Pool Topics	Element		
	2	3	4
Commission's Rules	6	5	6
Operating Procedures	3	5	5
Radio Wave Propagation	3	3	3
Amateur Radio Practices	2	5	5
Electrical Principles	4	3	4
Circuit Components	4	3	6
Practical Circuits	4	3	8
Signals and Emissions	4	2	4
Antennas and Transmission Lines	2	4	8
Electrical and RF Safety	3	2	1
Total Exam Questions	35	35	50
To Pass: Minimum Correct	26	26	37
Maximum Wrong	9	9	13

GUEST ARTICLE

By Kent Gardner WA7AHY

A Great Find at a Swap Meetõ ..the Palomar Loop Amplifier and Loop Antennas for Frequencies from the Broadcast Band and Below.

Tuning below the Broadcast Band has always interested me since I became a shortwave listener back in the mid-fifties. I have accumulated several receivers over the years that can tune below 500 KHz and they have kept my interest alive in receiving aeronautical radio beacons such as BMC in Brigham City and TVY in Tooele. For details on the Brigham City station, get on the club website and click on E-Magazine in the left column. Choose Archive and call up the May 2011 issue.

Until the VHF Society swap meet this past February, I have had the choice of two antennas. The first is a Sky Loop cut for 80 meters and a G5RV dipole broadside North and South. At the swap meet I was lucky enough to find a small rotatable loop system covering up to and including the Broadcast Band. I had been wanting such a system for a long time since they were in high demand for amateur radio astronomers. They monitor powerful very low frequency (VLF) transmitters used in communicating with submarines, to watch for Sudden Ionospheric Disturbances.

The system as pictured below consists of plug-in loop antennas and the antenna amplifier. The loops can be rotated 360 degrees and elevated 90 degrees either way. The system only uses one antenna at a time so are pluggable. The plug looks like a standard 1/4th inch stereo audio plug. I have installed a shelf for the amplifier in my shack just by my left shoulder. It doesn't appear that it needs to be outside or elevated. Reception is excellent inside. I merely have to turn left a little to turn or elevate the antenna by hand.



The three Palomar Loop Antenna plug-ins that I have are:

Broadcast	BCB	530-1700 KHz
LF	LF	150-500 KHz
OMEGA	OMEGA	10-45 KHz (No longer in operation)



The loop amplifier is powered by a nine-volt battery. A red Light Emitting Diode shows that the power is on. I have to keep a fresh battery on hand in case I forget to turn it off. I use my Kenwood PS-2000 receiver to directly tune those frequencies. They go down to an indicated 30 KHz on the dial, but it is advertised to start at 50 KHz. I can copy WWVB National Bureau of Standards at 60 KHz. The radio covers continuously through the Broadcast Band and higher.

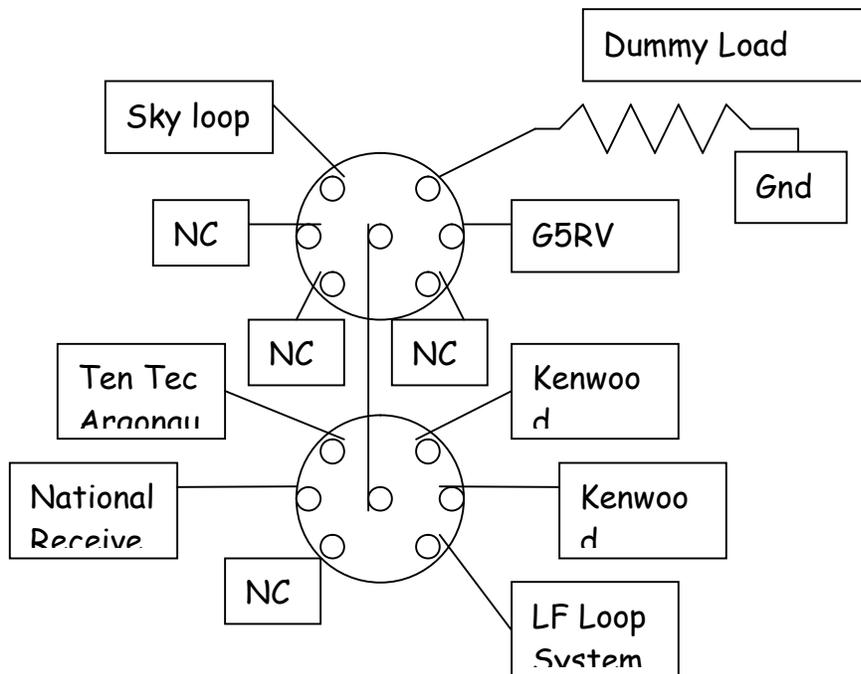
My antennas are routed through two coaxial switches for ease of changing antennas. The picture below shows the two coaxial switches in the normal position.



The coax unit can be pulled out for easy handling/changing of cables.



The following is a diagram of my antenna switching. It seems to work quite well. I can use the loop system to pull in the signal initially, but can then switch over to the other antennas to see if I can still hear the signal.



Note that the above antenna switching configuration may not be healthy to your equipment if high power is used for transmitting. See the December 2011 edition of QST page 51 for *The Doctor Is In* article.. There was a qualifying statement that it is okay to do it this way unless you have extreme power levels etc. I have had no problems using this method, but then again, I don't do much transmitting.

Another thing, when we get the new frequencies authorized by the Federal Communications Commission that are just below the Broadcast Band, having these loops as receive only might help dig the weak signals out of the mud.

These units are no longer manufactured, but if you do a search on the internet you can find several different versions of the loops, generally using PVC pipe as these do. Here is an abbreviated log of stations that a private individual who lived in Salt Lake City received. He has since moved. You can find all his notes by doing an internet search for LF Aircraft Beacons Utah. All of the beacons listed below are Modulated Continuous Wave (MCW) unless otherwise noted. MCW is received in the Amplitude Modulation (AM) position.

Frequency in KHx	Call	Power in Watts	Distance from SLC	Description
200	UAB	Unknown	1028	Anaheim Lake BC
223.1	YKA	Unknown	806	Kamloops BC
236.1	YZA	Unknown	831	Ashcroft BC
280	GVV	Unknown	412	Grangeville, ID
290	AOP	100	144	Rock Springs, WY
294	BMC	25	42	Brigham City, UT
303	N/a	10 Kw	108	Coast Guard GPS Myton, UT
344	FCH	400	521	Fresno-Chandler, CA
344	XX	1600	769	Abbotsford BC
350	NY	Unknown	759	Enderby, BC
360	BO	400	289	Boise, ID
368	SIR	100	253	Sinclare, WY
371	TVY	25	37	Tooele, UT
400.1	QQ	Unknown	878	Comox, BC
404	MOG	100	561	Montague, CA
408	MW	25	571	Moses Lake, WA
411	RD	400	529	Redmond, OR
414	LYI	100	551	Libby, MT

Some are so weak that you can't hear them in the AM position. You can switch to Continuous Wave (CW) or either of the sideband positions (LSB or USB) so you can get a beat note to tune to.

A lot of the beacons are far enough away that they may only be receivable at night so you may have to stay up late. Happy beacon hunting!+

TNX

Kent Gardner, WA7AHY

ANNOUNCEMENTS

Next Club Meeting:

3rd Saturday 21 July 2012

- The Ogden Amateur Radio Club meetings are usually held on the **3rd Saturday** of each month.

- **Time: 7:00 till over**
- **Location: Somewhere in Weber Co**
- **Topic/Event: "T"-Hunt**
- **Plus Breakfast in the Park**

- **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:

1st Wednesday 03 October 2012

- 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: New for June & October 2012

**Ogden Public Safety Building
2186 Lincoln Ave Ogden Utah**

Contact: VE Liaison:

Mary Hazard

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

Rick Morrison

morrisonri@msn.com
(801-791-9364)

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.

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	ZONE	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	ZONE	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
ATV	UARC	Ch-58	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-	GSARC	123.0	Brigham City
145.430-	GSARC	123.0	Brigham City
147.220+	GSARC	123.0	Brigham City
448.300-	GSARC	123.0	Brigham City
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
449.425-	IRLP	100.0	Nelson Peak
147.360+	Summit County	100.0	Lewis Peak

AREA CLUB MEETINGS & WEB SITES

CLUB	WEB SITE	DATE/TIME	LOCATION
OgdenARC	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 10:00 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
GSarc	Ubetarc.org	Check Website	Check Website
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)
WDArc	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	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	147.060 = 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 @ 8:00 PM	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	GS ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSERG	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 @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	State RACES VHF/IRLP	145.490 - 123.0, 146.680 - 123.0 3 rd Thursday - even months only
Thursday @ 8:30 PM	Davis ARES	147.420 = simplex
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: Kim Owen KO7U

Vice Pres: Larry Griffin AD7GL

Secretary: Gary Hudman WB7FMS

Treasurer: John Shupe K7DJO

Program Director:
Gil Leonard NG7IL

Activity Director:
Dave Woodcock WY7P

"WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

OTHER CLUB APPOINTMENTS

Webmaster: Val Campbell K7HCP

Historian/Librarian: Kent Gardner WA7AHY

Advisor: Kent Gardner WA7AHY

Advisor: Stan Sjol WOKP

Photographer: John Shupe K7DJO

QSL Manager: John Shupe K7DJO

Equipment Manager: Val Campbell K7HCP

Repeater Engineer: Mike Fullmer KZ7O

VE Liaison: Mary Hazard W7UE and
Richard Morrison W7RIK

Club Call Sign Trustee: Larry Griffin AD7GL

73 es cul de W7SU

www.OgdenArc.org