This is a 501c3 club, so your donations are tax deductible.

This club is also an Arizona Non-Profit Corporation.
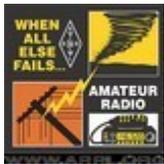
OVARC Newsletter Editor: Ron Herring W7HD

Monthly club meeting location is at Ascension Lutheran Church

1220 W Magee Road   Tucson, AZ 85704

(just east of LaCanada on Magee)

Meetings are held the third Friday of each month at 7:00 pm except in December. Elections are held in the January meeting.

Facebook: https://www.facebook.com/orovalleyarc?ref=tn_tnmn

Website: http://tucsonhamradio.org

How to contact us:

- **http://tucsonhamradio.org/contact-us**

<u>2019 OVARC Board of Directors</u>
Tom Ambler - W7TRA
Marnee Dearman KG7SIO
Gary Pierce AE7GP
Ross Eckert K4WBR
Fred Bresani - W2HZ
Carl Foster - KB7AZ - Secretary
Hanna Eckert - KG7TPD - Treasurer
Mike Peterson - K7VTT - Vice President
Steven Wood - W1SR - President

- `OVARC email contacts:`

For general information about OVARC	info@tucsonhamradio.org
For licensing and VE questions	licensing@tucsonhamradio.org
For help setting up your station or other operating questions	elmer@tucsonhamradio.org
For suggestions on club programs, etc.	suggestions@tucsonhamradio.org
For membership questions	membership@tucsonhamradio.org
For assistance with public service events or to to help out at public service events	public_service@tucsonhamradio.org
For Field Day information	field_day@tucsonhamradio.org
For website suggestions or comments	webmaster@tucsonhamradio.org
For Sunday night net questions	Net_manager@tucsonhamradio.org
For hamfest informations	hamfest@tucsonhamradio.org
For newsletter submissons or comments	newsletter@tucsonhamradio.org

Please note that we removed the email addresses listed in the newsletter due to a phishing attempt. So please use the ones from the links above.

OFFICERS

Steven Wood, W1SR, President   **Mike Peterson K7VTT, Vice-President**

Hanna Eckert, KG7TPD, Treasurer   **Carl Foster, KB7AZ, Secretary**

BOARD MEMBERS

Marnee Dearman, KG7SIO   **Fred Bresani, W2HZ**   **Tom Ambler, W7TRA**
(As of 18-Jan-2019)

cross-reference

OVARC Repeater Information

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TIPS, TRICKS AND LINKS

FROM THE ARRL LETTER

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FLDIGI METAR WX LINK NOT WORKING DUE TO WEATHER.GOV CHANGES

FOR SALE

EDITORS PAGE updated

OVARC Repeater Information

Active Repeater List

The following repeaters are owned by OVARC or privately owned but supported by the repeater team.

| Repeater | | | | | | Default | | |
Call Sign[1]	Designation / Location[2]	Frequency	Offset	Modes[3]	CTCSS (PL)[4]	D-STAR Reflector[5]	DMR Talk Group[6]	C4FM Reflector[7]
W7AI	Keystone Peak	146.6200	- 600 KHz	Analog	156.7	-	-	-
W7AI	Catalina City Golder Ranch FD	147.3200	+ 600 KHz	Analog	156.7	-	-	-
W7AI	OVPD Main La Cañada	444.1000	+ 5 MHz	Analog	156.7	-	-	-
W7AI	Marana Parks & Rec	447.5250	- 5 MHz	Analog	156.7	-	-	-
W7AI B	OV Calle	445.8000	- 5 MHz	Mixed	-	XRF310D	3104668	FCS00204
KG7PJV B	Tucson Foothills	445.1375	- 5 MHz	Mixed	-	XRF310D	-	-
KG7RWN B	Camino Seco & 22nd St	440.7625	+ 5 MHz	Digital	-	XRF310D	3104668	-
W7NFL B	Tucson Mountains	444.7500	+ 5 MHz	Digital	-	XRF310D	3104668	FCS00204
WD7ARC B	Saddlebrooke	445.5375	- 5 MHz	Mixed		XRF310D	3104668	FCS00204

All analog repeaters are linked together except during special events. EchoLink call sign W7AI-R (node 99946) connects to the linked analog repeaters.

---

[1] Analog or D-STAR call sign. All D-STAR gateways use the standard "G" suffix, e.g. "W7AI G".

[2] OV = Oro Valley, PD = Police Department, FD = Fire Department

[3] Mixed-mode repeaters can be configured for analog traffic if necessary. However, they are intended for digital traffic.

[4] CTCSS tones are required for input and are also supplied for output.

[5] Users are permitted to change the repeater reflector. It will return to its default an hour after the last transmission.

[6] Talk Group 3104668 is static and is for Tucson-area traffic. Users are permitted to add dynamic talk groups. All repeaters use color code 1 and support both time slots.

[7] Reflector FCS00204 includes a talk room for Arizona.

OVARC Repeater Committee - 2018-11-18

OPERATING EVENTS

CONTEST CALENDAR

Contest Calendar: April 2019
by Tom Kravec W8TK

The miracle that is FT8

Barely a year old, the FT8 mode has captured the interest of hams worldwide. I seldom hear a PSK signal nowadays but the FT8 band, though only a couple kHz wide, is always packed from end to end. Popularity extends not only to HF bands, but VHF as well due to its weak signal capability. Especially with the current status of the sunspot cycle, weak signal modes allow communication even with low power and compromise antennas. Recently the software, which originally accommodated only a signal strength and maidenhead grid locator to be exchanged with each QSO, has been updated to exchange information for some contests, including Field Day. A recent test in the ARRL RTTY Roundup was a huge success, though RTTY enthusiasts found that the QSO rate with RTTY is considerably faster than with FT8. That may change soon as the developers are working on allowing the mode to make more than one QSO simultaneously, perhaps five at a time, which would greatly increase the rate. Some RTTY veterans predict that FT8 may completely replace RTTY soon. Stay tuned. Info: https://physics.princeton.edu/pulsar/k1jt/wsjtx.html

Contests in April:

Wings of Freedom Tour (actually March 30). OVARC has participated the past two years, setting up a HF station at Marana airport where WW2 aircraft will be on display along with lots of vintage military vehicles and equipment. We'll do it again this year. We won't know which aircraft will be there until the date approaches but you will get an email in plenty of time to make plans. Details: https://www.collingsfoundation.org/event/marana-az/

Missouri and Mississippi QSO parties (two separate events) on April 6-7. These are low pressure events, not crowded or fast. They are a good opportunity to get your feet wet in contesting if you are a newbie. Google for details. New Mexico, North Dakota, Georgia are April 13-14. Nebraska, Michigan, Ontario are April 20-21. Same comments apply. It's QSO Party season!

Field Day approaches. Now is the time to shake the rust off and get on the air.

TIPS, TRICKS AND LINKS

Mr. Carlson's Lab – A YouTube Treasure

This blogspot was originally published in June 2015.**********I recently watched two superb YouTube videos. The first described exactly how to determine the 'shielded' side of a fixed capacitor and the importance of knowing this information. As you ...

A Blog a day: The Daily Antenna

The maestro of the Ham Video VK3YE , writer of a growing Amateur radio book collection along with his superb website to support his hobby vk3ye.com Has done it again, and now come up with a new challenge a new daily Blog called The Daily Antenna

What Does "Fulfilled by Amazon" Mean?

When you're shopping on Amazon, you might have seen the words "Fulfilled by Amazon" next to some of the things you buy. You hopefully won't notice anything different about the purchase experience, but you could run into problems. **READ MORE »**

Windows 10 Will Finally Offer Easy Access to Linux Files
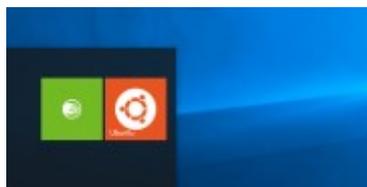
Windows 10's April 2019 Update brings a long-awaited feature: Support for easily accessing, viewing, and even modifying Windows Subsystem for Linux (WSL) files from File Explorer or via the command line. Read More »

https://www.howtogeek.com/404525/how-to-transfer-a-windows-10-license-to-another-computer/

 I was just tracking a satellite (AO-7) and notice my VFOs would cycle between UHF and VHF at every update. Could the transponder file be messed up? I have the latest (downloaded just before pass)
I believe I may have found my problem:

https://community.libre.space/t/configuring-gpredict-for-use-with-yaesu-ft-847/974

```
Shows that even at 57600 baud, it takes 2.1 seconds to get all the commands out.  I
have the system set up for a 1 second update rate.  I'll have to change it to at
least 3 seconds and see if my problem disappears.
```

My FT857 Supply Voltage reads 16.3v on the LCD. My supply voltage is 13.9 (I measured with two different DVMs). Performed full reset - made no difference.

Menu 17 adjustment (and saved) fixed that.

On 08/03/2019 16:32, don_wa5ngp wrote:

> I know that there are lots of ways to customize various callsigns coming in. However, I'd
> like to change the whole background of wsjtx so that what I see is white on black, more
> like a night time version so its not so bright. I haven't found a way to that.

start WSJT-X with the following command line argument:

```
C:\WSJT\wsjtx\bin\wsjtx -stylesheet :/qdarkstyle/style.qss
```

73   Bill G4WJS.

How to Get Your System's Geographic Location From a Bash Script

How to Convert an Image to PNG Format

WSJTX PPA for various versions of Linux

http://w7hd.ddns.net/yaesu/ft991a/ft991a-tips.pdf

http://w7hd.ddns.net/yaesu/ft991a/fusion-rptr-az.pdf

http://w7hd.ddns.net/yaesu/ft991a files

https://www.howtogeek.com/405400/how-to-turn-an-old-android-phone-into-a-security-camera/

FROM THE ARRL LETTER

New ARRL Podcast Geared Toward Newcomers to Amateur Radio Debuts Today

A new ARRL podcast aimed newcomers to Amateur Radio will launch on Thursday, March 7. Called, "So Now What?," the podcast will alternate new-episode weeks with the "ARRL The Doctor is In" podcast. "So Now What?" will focus on answering questions and providing support and encouragement for new licensees to get the most out of the hobby. Co-hosting "So Now What?" will be ARRL Communications Content Producer Michelle Patnode, W3MVP, and W1AW Station Manager Joe Carcia, NJ1Q. The podcast will explore questions that newer hams may have and the issues that keep newcomers from remaining active.

GPS Network May Experience Errors in "Week Number" Rollback

The GPS network will encounter a small millennium bug of its own in April when the network's "week number" rolls back to zero. This known issue especially could affect those who use GPS to obtain accurate Coordinated Universal Time (i.e., UTC). In the GPS network, the number of the current week is encoded into the message the GPS receives using a 10-bit field. This allows for weeks ranging from zero to 1023. The current period began on August 1, 1999. On April 6, 2019, the week number rolls over to zero and starts counting back up to 1023.

This should not affect later-model GPS receivers that conform to IS-GPS-200 and provide UTC, but testing carried out by the US Department for Homeland Security (DHS) raised the possibility that some units may misinterpret the rollover, shifting the date back to January 6, 1980, or possibly to another incorrect date. An affected GPS not only may report the incorrect date, but time accuracy that is critical to precise location data could be compromised. A nanosecond error in GPS time can equate to 1 foot of position (ranging) error, according to DHS-published guidelines that explain the issue and suggest how to address it.
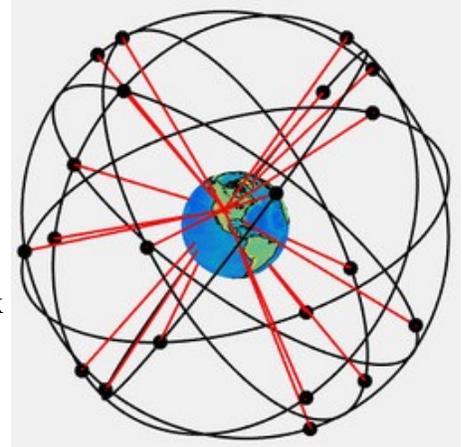
FCC Takes a New Tack in Combatting Unlicensed Radio Broadcasting

In what may be a first in the effort to crack down on unlicensed broadcasters, the United States has filed a civil action to stop a church-related pirate radio station from operating in Worcester, Massachusetts. The Massachusetts US Attorney's Office is seeking an injunction to shut down the station, operating on 97.1 MHz.

"This groundbreaking step, for an injunction to stop a pirate radio operator's illegal activities, is part of our continued efforts to combat illegal broadcasting," FCC Enforcement Bureau Chief Rosemary Harold said this week. "As we work with our law enforcement colleagues to use every tool in our toolbox to combat pirate radio, I welcome the Justice Department's renewed use of its Section 401(a) injunction authority. Along with fines, equipment seizures, and warnings, this action underlines our continued interest in combatting this serious problem."

The FCC already has fined operator Vasco Oburoni and Christian Praise International Church $15,000 for repeated violations of its rules against unlicensed operation. The complaint recounts that Oburoni and the church first began operating an unlicensed station in Worcester on 102.3 MHz. After issuing multiple warnings, the FCC levied the $15,000 penalty, and Oburoni agreed to a payment plan. But later, he began broadcasting again, this time on 97.1 MHz. At least one licensed broadcaster has complained to the FCC, citing interference concerns.

Tom Rudzinski, SQ9FVE, made Summits on the Air ([SOTA](#)) history on February 16 by activating Aconcagua in Mendoza, Argentina. At 6,962 meters (22,841 feet) above sea level, the mountain is the highest peak in both the Southern and Western hemispheres. An experienced and skilled mountaineer, Rudzinski planned the expedition carefully, including all necessary support. He began his ascent to the summit nearly 2 weeks ahead of his activation, setting up camps and acclimatizing to the elevation en route. He managed five contacts on 2-meter FM, working Argentinian chasers some 90 kilometers (56 miles) away. Rudzinski worked with a group of friends from the Cuyo Radio Club (LU1MA) to activate Aconcagua.

Technical Paper Raises Visibility of Wireless Power Transmission Interference Potential

A [technical paper](#) drafted by International Amateur Radio Union Region 1 ([IARU-R1](#)) President Don Beattie, G3BJ, is the latest official step to increase the visibility of wireless power transmission (WPT) systems' interference threat to Amateur Radio. Submitted to the IARU-R1 Interim Meeting, set for April 27 - 28 in Vienna, the paper will update relevant committees on the topic. Beattie's paper offers an impact analysis of WPT-electric vehicle (WPT-EV) systems on Amateur Radio communications, with a primary focus on WPT systems operating in the 79 - 90 kHz range.

"IARU engaged with discussions in CEPT [the European Conference of Postal and Telecommunications Administrations] and ITU [the International Telecommunications Union] on WPT in 2017," Beattie's 20-page discussion notes.

Beattie's paper warns of "a widespread and serious impact on radio communications operating in the vicinity" of WPT systems if spurious emissions measured at a distance of 10 meters are at current CEPT Recommendation 74-01E and ITU Radiocommunication Sector Recommendation SM.329-12 limits, "given the planned density of WPT-Electric Vehicle Systems." Both the CEPT and ITU recommendations address "unwanted emissions in the spurious domain."

An IARU study of WPT-EV and its potential impact on radiocommunications services already has been submitted to the relevant ITU and CEPT study committees. Broadcasters, land mobile services, and others have also expressed concern about spurious WPT-EV emissions. The study stops short of proposing any regulatory action. "This, therefore, is the next challenge -- to seek to bridge the divide between WPT manufacturers and the radiocommunications services," the paper concluded. Read more.

TS-2000 DIGITAL MODE SETTINGS

Menu 46 set for MAIN

Menu 47 set for 1200 bps

Menu 48 set for MAIN & SUB

Menu 50A sets if you want narrow filter mode

Menu 50B sets the input level to the transciever audio

Menu 50C sets the output of the MAIN receive audiom, start with 7

Menu 50D is if your using the SUB recv.

Menu 50E set for MAIN

Menu 50F set for 1200bps

Menu 56 9600bps, your com port settings must match.

I think that is all, these are for audio PSK and RTTY, there are

different settings using "pure" RTTY, but have had very good success

with the audio method.

The issued referred to in the HRD forum is that putting the TS-2000 into transmit mode with a cat command over the serial interface enables only the front panel mic input. It does not enable the audio input on the acc2 jack. Because of this, the TS-2000 must be keyed with a PTT control wire into the acc2 jack for digital mode oepration using the acc2 for audio input.

I've got a TS-2000 and I'm using PSK31 as I type this. It took me a while to figure it all out though. I'm not sure what a rascal is but here is my configuration.

TS-2000 with a straight through RS-232 cable to the serial ports for rig control with HRD.

SignaLink USB external sound card with the 13 ACC2 cable linking it to the Kenwood.

If you follow the Kenwood manual to set things up for digital modes with a USB TNC you will be in the spot you are in currently.

Set menu items 50b,c,d to the default value of 4 until you get it all working. You can fine tune later.

Leave menu item 50a set to off. If you turn it on your packet bandwidth will be cut in half. It guess it's a personal choice but I leave mine off for the increased bandwidth.

Make sure the built in TNC is set for the sub-transceiver and turned off when connecting to rig control programs or anything else that wants to use the serial port. (This was the number one reason it took me so long to get on the digital modes.)

Once all that is set you should be good to go as long as you have the audio levels on your computer set right and to use the external USB sound card. All the rest is fine tuning the system to get the best results.

The default waterfall in DM780 is blue and white. You can change that in the options to be anything you like.

Hope that helps you out. If you want I can save my menu settings for you and email them. Feel free to contact me here or at paul@KD0JOF.com maybe we could schedule something and try to work each other over PSK31 while on the phone.

Ron,

I just received the new ARRL book "Dipole Antennas for Amateur Radio". Third article is yours, about a Hamstick dipole.   Nice!

Tom W8TK

[My portable antenna article on my website](#)

```
Wow - I originally published that in QST in May 2003.  They did a
good job of cleaning up my sketches, too.  Nice to see it come
back...
Ron W7HD
```

CROSSWORD PUZZLE

by Chris Codella, W2PA   2/10/2009

Radiogrammer

Across

1. Rock band Los ___
6. Polite XYL title
10. Cooper maker
14. Amplifier connector label, say
15. Light beige
16. Coax elbows
17. Loop type
18. Apple competitor
19. Phony DX
20. Sign in a radio station
22. Packet ckt.
24. NTS rock band?
27. Clues
31. Bamboozle
32. SV letter
34. B4, of yore
35. CW shorthand item
37. Single- or multi-, in propagation
38. Gator's cousin
39. Knight's need
40. NTS unit
41. Type of feed
42. Globe _____ transmitter
43. ARRL volunteer official
44. Prefix with -single
45. Good report, using 35-acrosses
46. W7 city
49. 76, 77 and 78 maker
50. Expressionless
52. Illicit rendezvous station?
54. Area net for 55-across
55. Region net for 12-down
56. Staff
59. Brain wave
61. Soldering tools
65. OOTC members
66. Jamaica
67. Bigger than picos
68. Bosses on 40-acrosses
69. Small dwellings
70. Isle of Man prefix

Down

1. Needer of too many fills
2. New year's nr
3. Traffic handling award
4. Words before band, on an FCC citation?
5. W6YX
6. Noble I-land family name
7. Tennis whiz
8. Characters before seventy three
9. Entry class
10. Early radio parts maker
11. 9RN place
12. A 30-down, in W2-land
13. An end to perfection?
21. Ready follower?
23. Transistor type
24. Long haul 52-across
25. Common preamble item
26. Where a radiogram enters the ether
27. Fox or turkey follower
28. Guy wire hardware items
29. ____ back
30. ARRL unit
33. Word count
36. Batt. term. label
38. 7 MHz timer
40. Pre-LED amber light
41. Spreading, as with cream cheese
43. EA talk
46. Health resort
47. Forever
48. Humor newspaper nameplate middle
51. Places to find antenna restrictions
53. Filter maker
55. RTTY conveyance
56. Area net for 11-down
57. RX ckt.
58. Old video game inits.
60. Was CR8, once
62. Band breaker
63. Dahdit, in F-land
64. Dir. from W2 to LU

SOLUTION TO LAST MONTHS PUZZLE

T	C	P		A	N	G	L	E		S	A	N	D	P
O	R	V		I	N	L	A	W		P	R	O	I	I
W	O	R	L	D	W	I	D	E		R	E	V	E	L
N	C	C	C		T	E	R	M	I	N	A	T	E	
		D	I	S	C	S		E	N	T				
W	I	N		D	A	H		A	T	T		P	P	M
E	N	A	M	E	L		A	L	A		F	L	E	A
B	A	N	D	M	U	L	T	I	P	L	I	E	R	S
B	L	O	C		T	U	V		H	I	R	A	M	S
Y	L	S		P	E	G		C	O	M		S	S	E
			S	I	R		L	O	R	A	N			
U	P	H	O	L	S	T	E	R		O	N	E	S	
S	H	I	N	E		W	O	R	K	E	D	A	L	L
P	E	R	D	U		O	N	A	I	R		S	A	O
S	W	E	E	P		S	E	L	M	A		A	N	T

ARWEEKLY

US Amateur Radio Population Grows Slightly in 2018

The US Amateur Radio population once again grew by about 1%.

ARRL

The myth of VHF line-of-sight

I've come to realize the limitations of this model and how it causes radio hams to miss out on what's possible on the VHF and higher bands.

K0NR

Ham radio and the condo life

I have been doing it for close to 7 years now and it does have it's challenges.

VE3WDM

Random Acts of Kindness

The measure of a person is how they interact with someone who can do nothing for them in return.

AmateurRadio.com

Pi-Star hotspot getting started

The metal box is very solid, the board is good quality and the OLED display was already soldered in place. There was some soldering in that the pin headers for attaching to the Pi had to be soldered on to the Pi Zero board.

marxy.org

Receiving Es'Hail-2 GeoSat

Es'Hail-2 (QO-100) is a geostationary satellite at 25.5° East which carries transponders usable by radio amateurs.

M1GEO

Winlink on a Raspberry Pi

OH8STN

Repeater timeout project kit launched

A new project kit neatly solves the problem of alerting you before you hit the crucial timeout moment.

Essex Ham

Video

Ham Radio Deluxe Logbook 8 Things to Know

K0PIR

Dr. Tamitha Skov: Space Weather Woman

Space Weather News | Orbit Outlook and Meteors 02.21.2019

YouTube

Reduce HF noise with Faraday Cage for switching power supplies

The results are very promising with the shielded supply eliminating the noise almost entirely.

rtl-sdr.com

"RF Seismograph" may be real seismograph

Alex Schwarz, VE7DXW, in British Columbia, Canada, is exploring the possibility that "RF signatures" detected by the RF Seismograph propagation tool could also be indicating earthquakes, and may even be able to predict them shortly before they occur.

ARRL

FreeDV QSO Party 2019

April 27th 0300z to April 28th 0300z 2019. This is a great chance to try out FreeDV and work Australia using open source HF digital voice.

Rowetel

Does WiFi kill houseplants?

Spoiler alert: No. To come to that conclusion, Andrew McNeil ran a pretty neat little experiment.

Hack A Day

Ultimate crimp guide with photos

Common wire-to-board, wire-to-wire connectors, and crimp tools.

Matt's Tech Pages

In-depth: Ham Antarctic expedition

Between January 14 and February 18 I have been away from home on a research expedition to Antarctica. Several people have asked me for a post detailing my experiences.

Daniel Estévez

WiFi RF as art

The installation represents four open Wi-Fi Internet access points. By connecting to these points, visitors to the exhibition influence directly, through their network activity, a rhythmic sound generation process.

vtol

Ailunce HD1 Codeplug

If you are like me and just want to use your HD1 with a Jumbo Spot (or any hotspot) this is the easiest codeplug you'll ever find.

K0PIR

LTE on Ham Bands in Austria

The goal is to use SDR and OpenLTE software to develop fast data transfer from 70cm upwards.

Southgate

Video

How to decode POCSAG & FLEX using an RTL-SDR Dongle

How to decode POCSAG & FLEX pager messages.

M6LME

Explained: The first geostationary satellite for Ham Radio

We take a look at the Ham Radio transponders of the new Es'Hail 2 Satellite.

Tech Minds

2019 State of the Hobby Survey

This is the third annual State of the Hobby survey. 2018 came booming in with nearly 3,000 responses.

N8RMA

So Now What?

ARRL is launching a new bi-weekly podcast geared to those who are just getting started on their Amateur Radio adventure.

ARRL

Light up 2 Meters Night – an FM Simplex event

Taking place on March, 24, 2019, from 6-8pm local time.

W5KV

The $50 Ham: Getting Your Ticket Punched

Today we start a new series dedicated to amateur radio for cheapskates.

Hack A Day

New DMR network: QRM Network

This is a good place to experiment with new hardware and software.

KC3OL

My return to Ham Radio

This story is about my observations after returning to the hobby after a long absence. How has amateur radio changed?

VE7SAR

Ham Radio EMCOMM Go Kit

When building a go kit you should think about what you need the kit to do and how you will be using it.

High On Solder

Best handheld Radio for preparedness?

The Yaesu VX-6R and VX-7R are excellent handheld radios for those interested in communications preparedness.

OH8STN

HRPT stations worldwide

These are Stations from Radio Amateurs that Receive HRPT images in L-Band from Polar Orbiting Weather Satellites.

Tynet.eu

Video

Testing the Medium Wave capabilities of a Kenwood TH-D74A

Medium Wave reception test of an unlikely receiver.

YouTube

Making a paper cup microphone for less than $10

You can make a microphone out of a paper cup, some magnets, and some wire.

LeoMakes

FLDIGI METAR WX LINK NOT WORKING DUE TO WEATHER.GOV CHANGES

In the interim, we could probably replace this with a shell script that uses curl to grab the info.

curl https://w1.weather.gov/xml/current_obs/KLOT.xml

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<?xml-stylesheet href="latest_ob.xsl" type="text/xsl"?>
<current_observation version="1.0"
        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:noNamespaceSchemaLocation="http://www.weather.gov/view/current_observation.xsd"
>
        <credit>NOAA's National Weather Service</credit>
        <credit_URL>http://weather.gov/</credit_URL>
        <image>
                <url>http://weather.gov/images/xml_logo.gif</url>
                <title>NOAA's National Weather Service</title>
                <link>http://weather.gov</link>
        </image>
        <suggested_pickup>15 minutes after the hour</suggested_pickup>
        <suggested_pickup_period>60</suggested_pickup_period>
        <location>Lewis University Airport, IL</location>
        <station_id>KLOT</station_id>
        <latitude>41.60307</latitude>
        <longitude>-88.10164</longitude>
        <observation_time>Last Updated on Feb 6 2019, 10:55 am
CST</observation_time>
        <observation_time_rfc822>Wed, 06 Feb 2019 10:55:00
-0600</observation_time_rfc822>
        <weather>Overcast</weather>
        <temperature_string>35.0 F (1.5 C)</temperature_string>
        <temp_f>35.0</temp_f>
        <temp_c>1.5</temp_c>
        <relative_humidity>94</relative_humidity>
        <wind_string>North at 6.9 MPH (6 KT)</wind_string>
        <wind_dir>North</wind_dir>
        <wind_degrees>340</wind_degrees>
        <wind_mph>6.9</wind_mph>
        <wind_kt>6</wind_kt>
        <pressure_in>29.95</pressure_in>
        <dewpoint_string>33.1 F (0.6 C)</dewpoint_string>
        <dewpoint_f>33.1</dewpoint_f>
        <dewpoint_c>0.6</dewpoint_c>
        <windchill_string>29 F (-2 C)</windchill_string>
        <windchill_f>29</windchill_f>
        <windchill_c>-2</windchill_c>
        <visibility_mi>7.00</visibility_mi>

<icon_url_base>http://forecast.weather.gov/images/wtf/small/</icon_url_base>
        <two_day_history_url>http://www.weather.gov/data/obhistory/KLOT.html</
two_day_history_url>
```

```
<icon_url_name>ovc.png</icon_url_name>
<ob_url>http://www.weather.gov/data/METAR/KLOT.1.txt</ob_url>
<disclaimer_url>http://weather.gov/disclaimer.html</disclaimer_url>
<copyright_url>http://weather.gov/disclaimer.html</copyright_url>
<privacy_policy_url>http://weather.gov/notice.html</privacy_policy_url>
```

Of course, you'd probably also want to parse the XML data, but at least it's
something accessible until the WX: macro is updated.

—
David, K9DWR
david@graniteweb.com

On Feb 6, 2019, at 11:08, Dave <w1hkj@bellsouth.net> wrote:

NOAA has changed it's METAR data service to use https vice http. The
change breaks the <WX:...> macro implementation. fldigi network access
code will need changes to implement the secure access negotiation with
the NOAA site.

73, David, W1HKJ

Hans Summers talking about his new QRP SSB transceiver from his home in Turkey. If you missed the presentation you can find see the slides at the following link: https://drive.google.com/open?id=1h5OpPSeHPG42bKfi3yLuI9FB_Y3RbGVk

SUMMARY – see http://qrp-labs.com/qsx

- High performance all-band, all-mode 10W HF transceiver
- Fun, flexible educational, customisable
- Performance of a top-range radio at 1/10th the price
- Availability: 2-3 months (hopefully)
- Price target:
    - **$75** basic 1-band QSX-40
      (can also be built for any other single band)
    - **$150** with all options:
      10-band module and aluminium enclosure

QRP Labs

http://qrp-labs.com

FOR SALE

You can use this area to post a nice picture of your item along with a written description of the item and a price. Of course, contact information needs to be there too. If you would like to use the Newsletter outlet, please consider a $5 donation to OVARC. Items will only be listed in the next issue, unless requested otherwise. When your item sells, please notify the newsletter editor using this link: newsletter@tucsonhamradio.org

Lightly used DMR digital radio with all of the accessories when purchased. Version 2 radio with 2.33 firmware. Firmware and cps readily available on the internet. Auto-senses digital or analog modes.

Anytone D868UV radio
3100 mah battery
Nagoya NA-701 antenna
Stock antenna
Charger
GPS
Programming cable
Original box and manual
Pryme speaker mic

Asking $155.00

AT-D868UV

Full specs here: http://www.anytone.net/supply/dmr-radio-sales.html

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Acom 1000 HF+6 Amplifier

Includes manual and original box. Wired for 240vac operation.

No scratches or blemishes. Smoke free environment. Makes full power.

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Pick up or will meet within 30mi from Saddlebrooke

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ACOM 1000 HF Power Amplifier - 1000 Watts Continuous Carrier Regardless Of Mode

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EDITORS PAGE

Deadlines for 2019 submissions are on the Monday preceding club meeting

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Feel free to email me at newsletter@tucsonhamradio.org

Please note that all articles submitted may be edited for spelling and grammar mistakes. My document program does automatic spell checking (LibreOffice Writer). DOC, RTF, PDF, ODT, TXT are all acceptable. If pictures are included, having them in separate files as JPG or PNG formats is best. I can place captions under the pictures if needed.

May your noise be low, signals high, and your waterfall never dry up :-)

Ron Herring W7HD

Newsletter Editor, Past Vice-President

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I am re-organizing the rigs to different antennas for my FT8 activity. The **KX3** is doing a surprisingly good job on 30M with only 4.8W output to a Force-12 15' flagpole vertical. The **FT891** is being prepared for installation in the truck. The **TS2000** is doing great on 20M using the homebrew 25' flagpole and its built-in tuner when not in use for tracking satellites. I am starting to upload logs to eqsl.cc and qrz.com.

The **FT991A** is my go-to rig now for general operating and is generally monitoring one of the OVARC repeaters when not in use otherwise. It also gets service as a satellite tracker. The **FT857D** is usually running WSJT-X on 17M or 20M.

Now that the commerce.com websites are being updated again, I have expanded the propagation page on my website to include several new links for more info.