



**Sarc Radio Net numbers/check ins:**

**Weekly HF Dawn Patrol** – 59 for the week ending 11th December.

**Monday\_INFO Net** – 5 – News & RBB audio levels.

**Tues\_Sarc Digi Net** – full “*Digital Modes Report*” below...

**Wed\_70cm Net** – 4 – Raspberry Pi & Linux.

**Thursday\_6mtr Net** – 6 – Weather.

**Friday Night Net** – 6 – Weather & DX

**Upcoming Events**

**Committee Meeting**

January 10, 2021 @ 1300

**Summer VHF/UHF Field Day**

January 16 & 17, 2021

**Committee Meeting**

January 17, 2021 @ 1300

**Australia Day**

January 26, 2021 – AX prefix



A reminder from Mike VK3AVV that logs for the Spring Field Day are due in by midnight AEDT on Monday December 14th 2020.

**.AMC EXAM RESULTS.**

Despite rumours of long delays, the AMC has sent out the results of the recent exams held at SARC within 15 working days. That's a lot faster than the 45 days allowed under Covid-19 rules and considerably faster than the 90 day rumours. New call signs will appear once the ACMA has processed their part.

**6-DAY LISMORE WEATHER (FORECAST)**

	Mon Dec 14	Tue Dec 15	Wed Dec 16	Thu Dec 17	Fri Dec 18	Sat Dec 19
Summary	Heavy rain	Showers	Showers	Possible shower	Possible shower	Possible shower
Maximum	25°C	29°C	28°C	28°C	30°C	31°C
Minimum	16°C	18°C	19°C	19°C	19°C	19°C
Chance of Rain	90%	80%	80%	80%	80%	80%
Rain Amount	40-80mm	1-5mm	1-5mm	5-10mm	5-10mm	5-10mm
UV Index	Extreme	Extreme	Extreme			
Frost Risk	Nil	Nil	Nil	Nil	Nil	Nil



# .DIGITAL Report:

DIGITAL MODES  
TUESDAY DECEMBER 8, 2020

Another digi net rolls around. This evening we had Leith VK2EA, Duncan VK2DLR, Brian VK2FMAN, John VK2JWA and Malcolm VK2OTA logging in, a pretty good attendance. We were joined later in the net by Dave VK2ZDR, very welcome. After our normal two rounds of personal news and chat Duncan and I QSY'd to 146.230 USB.

We started exploring Fldigi again, starting with Olivia 8-500, very capable and sensitive mode. By this time Dave VK2ZDR joined us. This was followed by Olivia Custom. This allows the operator to choose from five bandwidths from 125 to 2000 Hz and the number of tones from 2 to 256. This custom area also allows you to vary the tone spacing and integration period – Forward Error Correction blocks. We were not brave enough to play with that part as it affects decoding. We tried 32-500, you would think that 32 tones would improve Olivia's slowness, but it didn't. Olivia 2-125 was very narrow, like PSK31 but worked very well. Our next mode was Contestia Custom, much the same setup as Olivia custom. We tried Contestia 2-500 and found it quite fast and did not produce any decoding problems. The text was decoded in caps only but it also has the normal punctuation marks, just no lower case letters, much like RTTY. We were all impressed by this Contestia custom mode.

These custom modes are a real chance to experiment, you can choose a combination of bandwidth and tone numbers that are not the same as the standard mode choices. A great night of radio experimentation. Thanks to Duncan and Dave for making the journey and to everyone who logged in

Cheers from Paul VK2PMG

The screenshot shows the Fldigi software interface (version 4.0.4) running on a Windows operating system. The window title is "fldigi ver4.0.4 - VK2SRC". The interface includes a menu bar (File, Op Mode, Configure, View, Logbook, Help), a status bar (Spot, RxID, TxID, TUNE), and a main display area. The frequency is set to 5096.000, and the call sign is VK2DLR. The mode is set to USB. The main display area shows a yellow background with the text "OVER TO DLR, ZDR" and "DE VK2SRC K". Below this, there is a block of text: "\$;UV0Z78\_?4B,NXF@=VU", "-;3L0%@Z Z\$G/P>^=0.9", and "VK2SRC ES GP DE VK2DLR". The bottom of the interface features a control panel with various buttons (CQ, ANS, QSO, KN, SK, Me/Qth, Brag, T/R, Tx, Rx, TX) and a frequency scale from 500 to 4000 Hz. The status bar at the bottom shows "CTSTIA 2/500", "s/n: 14.5 dB", "f/o +0.0 Hz", and other settings like "NORM", "1500", "QSY", "Store", "Lk", "Rv", "T/R", "-3.0", "AFC", and "SQL".



What is HamSCI?

<https://hamsci.org/>

HamSCI, the Ham Radio Science Citizen Investigation, is a platform for the publicity and promotion of projects that are consistent with the following objectives:

- Advance scientific research and understanding through amateur radio activities.
- Encourage the development of new technologies to support this research.
- Provide educational opportunities for the amateur community and the general public.

HamSCI serves as a means for fostering collaborations between professional researchers and amateur radio operators. It assists in developing and maintaining standards and agreements between all people and organizations involved.

### What is HamSCI's scientific focus?

HamSCI was started by ham-scientists who study upper atmospheric and space physics. These scientists recognized that projects such as the Reverse Beacon Network, WSPRNet, PSKReporter, DX Cluster, ClubLog, and more are generating big data sets that could provide useful observations of the Earth's ionosphere and related systems. Because of this, HamSCI's initial focus is on these fields of research. In the future, other researchers may join HamSCI and broaden its scope.

-extracted from the HamSCI web page by Duncan VK2DLR

## .TODAY'S CLUB MEETING ZOOMERS.



# .OTHER NEWS AROUND THE WORLD.

## VK2WI News Broadcasts

10am and 7:30pm Sundays on:

160m	1.845MHz	AM
80m	3.595MHz	LSB
60m	5.425MHz	USB VKE580*
40M	7.146MHz	AM
30m	10.125MHz	USB
20m	14.170MHz	USB
10m	28.320MHz	USB
6m	52.525MHz	FM
2m	145.6/147.0MHz	FM
70cm	438.525MHz	FM
23cm	1273.5MHz	FM

\* Commercial Callsign, Mornings Only, No Callbacks



## WEEKLY NEWS SERVICE

www.wia.org.au



WIA News Broadcasts can be viewed on YouTube. Here is a link to [this week's broadcast](#).

# .THE FUN PAGE.

But first, the not so funny for some.

Oops! Sorry folks. That will teach me to test the x-word before releasing it.

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

LAST WEEK'S SOLUTION

## SARC'S FIND THE WORD PUZZLE #01

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

- ANODE
- ANTENNA
- ARRAY
- BANDWIDTH
- CATHODE
- CHARGED
- CRYSTAL
- DELTA
- DIELECTRIC
- DIGITAL
- DUPLEXER
- FARAD
- FILTER
- GROUND
- HENRY
- HYBRID
- JFET
- LAMBERT
- LED
- LINEAR
- MOBILE
- MUTUAL
- NETWORK
- OFFSET
- PEAK
- RADIO
- RIPPLE
- SETUP
- SHUNT
- SQUELCH
- THETA
- TOWER
- WATT
- YAGI

VK2PAH

Last night, Dummy Load left his parts dish next to the 5Ghz modem.



"That's strange. Last night I only had two."

**Believe It or Not!**

VK2PAH

### Our Disclaimer:

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