



SARCNEWS 2021:02:07

SARC RADIO NET NUMBERS/CHECK INS:

Weekly HF Dawn Patrol – 54 for the week ending 05FEB21.

Monday_ 8 – News.

Tues_Sarc Digi Net – 4 – See Digi Report below

Wednesday – 7 – DroidStar App

Thursday Net - 7

Friday Night Net – 9 – Poor HR conditions

UPCOMING EVENTS

AGM & Committee Meeting

February 14, 2021 @ 1300

Wyong Hamfest

February 28, 2021

Committee Meeting

March 14, 2021 @ 1300

John Moyle Field Day

March 20-21, 2021

LETTERS TO THE EDITOR

CLASS LICENCE PROPOSAL

From Chris VK4YE. In part - "(Y)ou would probably be contemplating running a few lines in the newsletter re the ACMA proposal to migrate Amateur Radio licencees to a Class Licence. I'm sure there will be some hysteria over the ramifications of this move, but I have been in contact with Mark Gooding, President of the NZART and have his observations by way of an email. That may be useful information as the ACMA seem to have closely copied the NZ class licensing deal. The free licence for life is sure to swing the numbers their way - if it isn't already a *fait accompli*!"

- Chris B. VK4YE

(*Fait accompli: a French phrase used to describe an action which is completed before those affected by it are in a position to query or reverse it).

From Duncan VK2DLR. Many will already have received an e-mail from the AMC inviting submissions concerning their proposed changes to the way Amateur Radio will operate in Australia.

Visit <https://www.acma.gov.au/consultations/2021-01/review-non-assigned-amateur-and-outpost-regulatory-arrangements-consultation-012021> and have a read. You've got about two months to have a think and put in a submission.

VK4YE ON AMATEUR RADIO ASSESSMENT IN AUSTRALIA.

From Duncan VK2DLR. SARC member Chris VK4YE has a two page article in the just published electronic edition of Amateur Radio Magazine.

Chris has a detailed summary of how other countries handle the examination, assessment and licencing process. He poses the question "Why can't we have a system as good as other countries?" Well worth the read.

FOUNDATION COURSE COMPLETED

From Duncan VK2DLR. This weekend two candidates went through SARC Education's weekend course and the AMC Assessment. The AMC system means that we won't know the results until their exam papers are marked and processed in Tasmania. Great to see another couple of people beginning their amateur radio journey. No courses planned for the year at this stage.

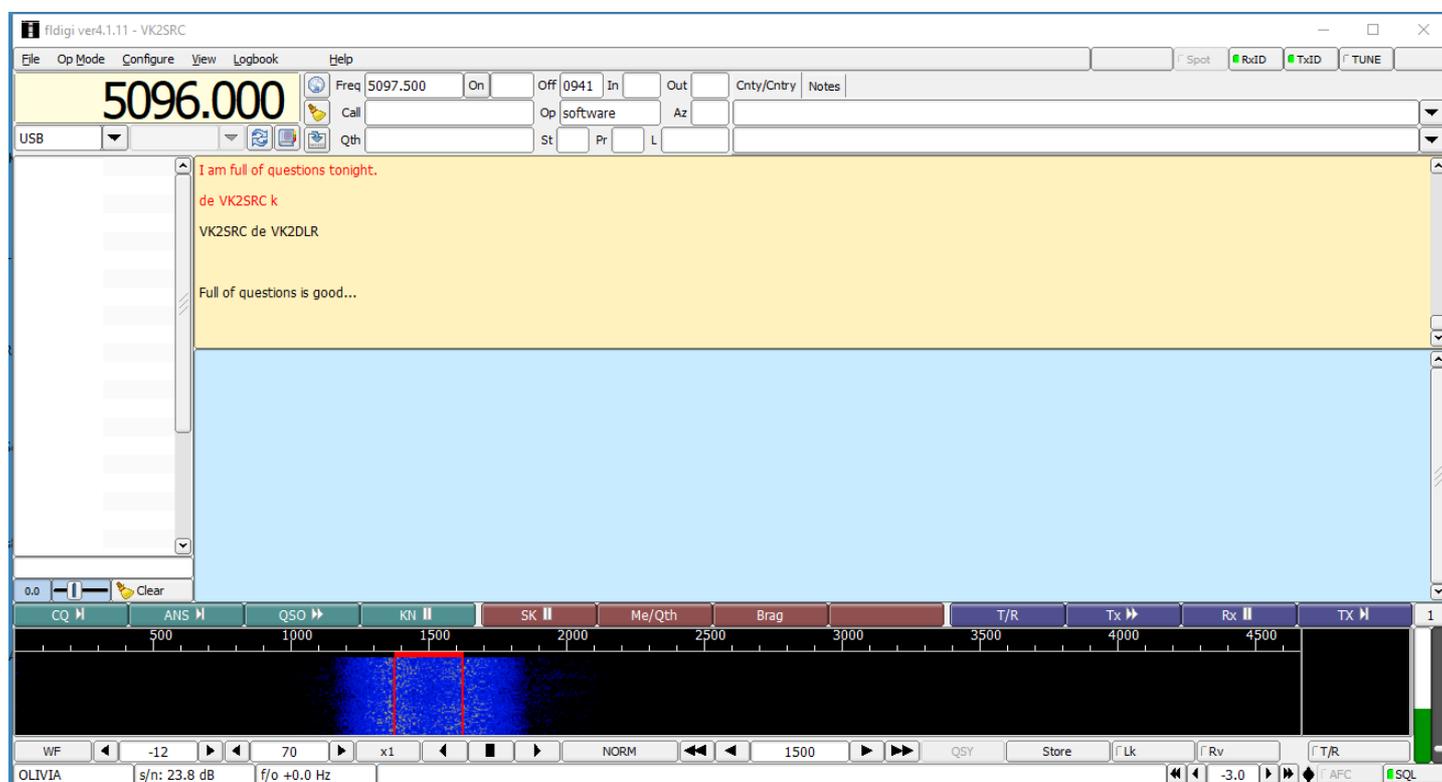
DIGITAL MODES Report – Tuesday 02FEB2021

Tonight we had Duncan VK2DLR, John VK2JWA and Leith VK2EA logging in. It didn't take long for us to go through our personal news and chat. After that Duncan and I QSY'd to "our" frequency of 144.230 USB for another run with Fldigi.

We used the custom Olivia mode of 2-500, two tones and a 500Hz bandwidth. We have used this custom mode for a while now and it is proving to be pretty good. It maintained Olivia's reputation as probably the most sensitive mode that Fldigi currently has. One advantage of Fldigi is that it is conversational. It's all very well to send nice images back and forth with MMSSTV, but the keyboard modes in Fldigi allow for an exchange of technical information using data to do the work.

I would suggest that Fldigi is probably the easiest digital mode to use. Once the Fldigi programme, computer, sound card and radio are communicating correctly, any of the modern modes such as Olivia, DominoEX and Thor, with their choices of speeds and bandwidths will allow for reliable decoding of messages even in unfavourable conditions. Thanks to Duncan for his support, for without that support the digi net would struggle.

Cheers from Paul VK2AMT



6-DAY LISMORE WEATHER (FORECAST)

		Mon Feb 8	Tue Feb 9	Wed Feb 10	Thu Feb 11	Fri Feb 12	Sat Feb 13
	Summary	 Possible shower	 Mostly sunny	 Possible shower	 Mostly sunny	 Mostly sunny	 Mostly sunny
	Maximum	27°C	26°C	27°C	27°C	30°C	30°C
	Minimum	19°C	17°C	16°C	15°C	14°C	16°C
	Chance of Rain	50%	30%	50%	60%	20%	50%
	Rain Amount	< 1mm	< 1mm	1-5mm	< 1mm	< 1mm	< 1mm
		9am 3pm	9am 3pm	9am 3pm	9am 3pm	9am 3pm	9am 3pm
	Wind Speed	15 km/h 23 km/h	16 km/h 25 km/h	12 km/h 20 km/h	11 km/h 17 km/h	6 km/h 14 km/h	7 km/h 15 km/h
	Wind Direction	SSW S	SSW S	SW SSE	SW SE	NW E	NNW ENE

.OTHER INTERESTING BITS.

From Paul VK2AMT. Here's a bit of information about the Radio Astronomy Zoom Meeting on last Friday. There is an image of a completed Horn antenna setup.

Digital Signal Processing in Radio Astronomy – Zoom Meeting.

This is a program designed for teachers and students in the USA. One spinoff of the program is a project involving the building of a low cost horn antenna to collect signals from neutral hydrogen from the sky at the frequency of 1420.40575 MHz, the signals are boosted by a low noise amplifier. The faint signals are received by a SDR. This can be a cheap SDR dongle to start with. The group from the USA are very interested in gathering data from the southern hemisphere. There was a Zoom meeting arranged on Friday afternoon with a small group from SARC and the members from the

USA attending, giving details of the research project. The meeting was very interesting and several SARC members are willing to proceed with the horn antenna project. Any data collected is subject to future processing using the Python coding language.



Click on the below images to open.



Five-year spectrum outlook 2020–24

The FYSO 2020–24 looks at how technology and trends will affect the need for spectrum over the next few years.

It shows our plans for meeting spectrum demand and ways we can improve how we manage Australia's spectrum.

The *Addendum to FYSO 2020–24* provides the ACMA's response to submissions received to the draft FYSO 2020–24.

-  [Five-year spectrum outlook 2020-24 \(522.93 KB\)](#)
-  [Five-year spectrum outlook 2020-24 \(928.58 KB\)](#)
-  [Addendum to FYSO 2020-24 \(118.42 KB\)](#)
-  [Addendum to FYSO 2020-24 \(271.89 KB\)](#)



.THIS WEEK'S FUN PAGE.

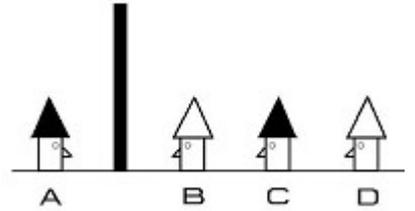
Last week's puzzle solutions.

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

Freedom Really is Black and White

Chris VK2ACD got the correct answer.
Well done! His response:

A and B cannot know since they cannot see any one else's hats. D can know, but only if he sees that B and C are wearing the same colour, then he can deduce that he and A must be wearing the other colour. In this case, D can see that B and C are wearing different colours, therefore he (D) could be wearing either colour. He will remain silent. C can then deduce from the silence of D, that he (C) must be not be wearing the same colour as B. He can see that B has a white hat, therefore he is wearing black. This deduction assumes that C can use the silence of D.



THIS WEEK'S PUZZLES The bottom image has ten alterations to it, can you spot them?



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