

BARG News



Official Newsletter of the Ballarat Amateur Radio Group Inc. # 6953T
ABN 44 247 200 143

VOLUME 32 ISSUE 1 January 2009



President: Doug Raper VK3VBA
Secretary: Doug Ellery VK3FDRE
Treasurer: Peter Pollard VK3FPOL

NEXT MEETING - FRIDAY January 28, 2009
At 7.30 pm

Contacting us

You can write to the club at the address below, or e-mail the secretary.

The Secretary : B.A.R.G. Inc.
 Box 1261
 Mail Centre
 Ballarat. Vic. 3354.



Or E-Mail: vk3bml@barg.org.au

BARG Inc. Life members

Kevin Hughes	VK3WN
Ian McDonald	VK3AXH
Charlie Stewart	VK3DCS
Bob Terrill	VK3BNC
Jim Wright	SK
Norm D'Angri	VK3LBA
Phil Seddon	
Stan Widgery	SK
Gordon Cornell	VK3FGC

CLUB INFORMATION

REPEATERS and BEACON

D—STAR

CALLSIGN:	MODE:	FREQUENCY:	TX OFFSET:	USER SETTINGS
VK3RBA A	Digital Data	1298.700 MHz	Nil (half duplex)	URCALL: VK3RBA RPT1: VK3RBA A RPT2: not in use
VK3RBA B	Digital Voice	439.9875 MHz	-5.0 MHz	URCALL: CQCQCQ RPT!: VK3RBA B RPT2: not in use

VK3RBA (UHF) (70 cm Voice Repeater (Uses CTCSS of 91.5 Hz to access)	439.275 Mhz	Mt Buninyong
VK3RBA (VHF) (2 m Voice Repeater)	146.750 Mhz	Mt Buninyong
VK3RWA* (2 m Voice Repeater)	147.100 Mhz	Mt Ben Nevis
VK3RPC (2 m Packet Repeater)	144.750 Mhz	Mt Warrenheip
VK3RBU (70 cm Voice Repeater)	438.475 Mhz	Mt Hollowback
VK3RMB (70 cm Beacon)	432.535 Mhz	Mt Buninyong
VK3RBU-1 (2 m APRS Repeater)	145.175 Mhz	Mt Hollowback

* IRLP Node 6310 using VK3RWA

CLUB e-mail vk3bml@barg.org.au.

CLUB NET VK3BML 3.610+/- QRM Thursday Nights at 8 pm E.S.T (Summer & Winter)

WIA Broadcast and Club Call Back. Sunday's 11.00 via VK3RWA (IRLP Node 6310)

NEWS ITEMS Send to Harry VK3KGL

Or mail to Box 1261 Mail Centre BALLARAT 3354 or e-mail yk3kgl@barg.org.au

Broadcast Times and Dates on VK3RWA Repeater

Every Sunday at 11.00 am, WIA National News, followed by VICLINK

Every Monday night at 9.30 pm, ARRL News

Every Tuesday night at 9.30 pm, WIA National News Repeat

Every Wednesday night at 9.30 pm, Spectrum Tasmania News



Doug, VK3VBA

Presidents Report

Two months between meetings is a long time I have been told by two members and yes it certainly is, members will be together and back to normal by the end of this month.

I hope everybody had a good Christmas spending time with friends relatives and close family its certainly a time to bring people together.

A few activities have been held since our last meeting e.g. Murray River Marathon, thanks to Craig 3cmc and Bob 3nbv

Setting up new investments..... New bank... accounts to name a few, committee have not been sitting idle.

An exciting announcement will be made at our January meeting re a successful application for substantial amount of money from a Federal Grant.

A great night was held at our rooms for the occasion of our Christmas breakup 33 members and partners attended, even Father Christmas arrived unannounced and he had gifts for all attending.

I will not be able to attend our January meeting but everything will be under control with a stand in President.

All the best and keep safe

Doug, vk3vba

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QST Report with Craig, VK3CMC

Content review of current QST in library

QST Review 2008-12 Dec.



- P9 Next Spectrum Challenges. The Editorial.
- P30 Pounding Brass using the Sound card of a computer.
- P33 Modular Rcvr for Exploring the LF/VLF bands. Part 2. [See Nov08]
- P38 Low noise HF Loop and bonus 2M beam.
- P40 REVIEW. Perseus Software Defined Receiver 0-30Mhz.
- P46 Ghost QSO's. Olivia MFSK - The Magic mode.
- P48 "Make that list and check it Twice" Christmas is coming !
- P50 New Products: Smaller items.
- P51 BPL again. City takes over from private company.
- P58 Doctor is In. Answers a range of questions that are submitted.
- P60 Short Takes: Reviews The ARROW 2 146-4BP beam for 2M.
- P61 Time to tune up that straight key. For CW fans.
- P62 Hands on Radio. Ex #71 Circuit Layout. Using breadboards and effects to circuit wiring.
- P64 Hints & Kinks. Portable ant tripods. Corroded battery connections, Textured paint for cabinets, sound card caveats.
- P90 World above 50Mhz. "Maunder & other Minima"
- P93 Eclectic Technology. Promoting ATV on the Internet. Note picture from VK2RTS Sydney.
- P 94 Old Radio. Read logs from 1923 expedition to the North pole.
- P99` Reviews QST for Dec 1933, Dec 1958 and Dec 1983
- P101 Hamspeak. Lists word bibliography used in this edition.

- P158 Index to Advertisers

- P52 Interesting note that Pennsylvania is the 27th state in USA to pass law that guarantees Amateurs the right to erect towers up to 65feet without need for Special Use Permits. Could that ever occur in Oz??

Rest of magazine is filled with advertisements and ARRL club matters.

That's all for Dec 2008.



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		<p>KOHLER engines</p>	

Article from the past.....

Vertical Antennas

This article was published in a BARG magazine years ago by Leo McPherson VK3ALM. These antennas on ten and fifteen meters were used by Leo and Geoffrey VK3ADB with great results at the Ballarat North Technical School. All three are now deceased. They were mounted on a large flat metal roof and at the height of the 10/10 awards saw Ballarat promoted all around the world. Leo was the local Chapter Head and instigator of local 10/10 activity at the time. He also “Fathered” other BARG awards. He gained a DXCC award as a mobile operator. **Bob, vk3bnc**

WAVELENGTH		OHMS		CAPACITANCE in P'FADS						ANTENNA HEIGHT in MM's					
DEG	FRAC'N	R/R	Xc	160m	80m	40m	20m	15m	10m	160m	80m	40m	20m	15m	10m
144	0.4	600	Res	-----	-----	-----	-----	-----	-----	63400	31700	16154	8047	5365	3993
135	0.375	300	200	450	220	112	55	37	28	59440	29720	15090	7560	5030	3750
113	0.315	90	80	1125	550	260	130	94	70	49680	24870	12620	6310	4206	3140
103	0.3	72	60	1500	730	375	185	125	92	47550	23775	12195	6096	4023	2987
99	0.275	50	25	3600	1750	900	444	300	220	43586	21794	11065	5517	3688	2743
* 90	0.25	36	¼ Wavelength shows only Radiation Resistance (R/R)							39624	19812	10058	5030	3353	2500
The above Antennas (Except 90 Deg) need capacitance. Antennas below (less than 90 Deg) require Inductance															
45	0.125	12	* USE FORMULA BELOW TO CALCULATE INDUCTANCE						19812	9906	5030	2515	1676	1250	

This table was used very successfully to design antennas for a Radio Club at Ballarat North Technical School. The original chart was discovered by Bob, vk3bnc from a NZ Publication, I think. Using the figures, Geoff, vk3adb and I built antennas for three different bands, 10, 15 and 20 meters.

Contacts were made all over USA and Europe, and weekly skeds were held with Anjo High School in Japan.

I lost the original, but fortunately kept some notes, and the table above is developed from them.

An explanation of the chart:

The left most column shows the antenna height in degrees.

The second column gives the same height as a decimal fraction.

The third column is the theoretical radiation resistance (R/R) at the input (base) of the antenna.

The fourth column shows the capacitive reactance to be expected from the antenna.

The next six columns show the value of the capacitance for the foot of the antenna.

The other six columns give the length of the antenna in millimeters – easy to convert to meters.

Example: say that a 10-metre (28MHz) antenna is required to match a 50 ohm coax line:

1. Run down the R/R column until 50 ohms is reached (opposite 99 degrees)
2. Move horizontally to the 10m (ten meter) column and find 220 Pico farads, the necessary capacitance.
3. Move further horizontally to the second 10m column and find the height of the antenna – 2743 mm (9.0 feet exactly)

Craig's Page.....vk3cmc

Here are recent qsl RECEIVED for both 2M and 70cm contacts from 12Dec with Wally VK6WG and just earlier this month from Norm VK7AC. I am still waiting for a card from ZL3TY from last year on 2M SSB.

Hope there will be more openings this summer.

73 Craig

Confirming QSO with VK3CME on 4.52.1.....mhz
Date of Contact 12-11-08 Time 2.150 WAST hours

VK6WG OF84wx WIA
WW Green, 10 Victoria St, Albany WA 6330

Antenna 15' OVER 15' 26' YAGI
Transceiver IC-746
Your signal R 4 S 2 T..... Remarks.....
73 Wally

WW LOC. QE381P TASMANIA ISLAND - AUSTRALIA
CQ ZONE 30
ITU ZONE 59
IOTA OC-006
SMIRK #6473

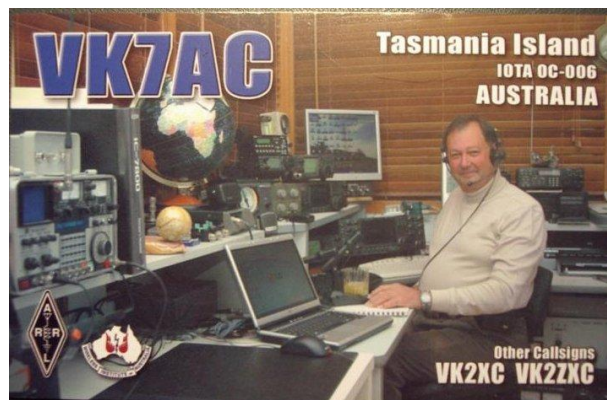
VK7AC

CONFIRMING QSO/SPL REPORT: QSL VIA.....

TO RADIO	DATE			UTC	MHz	RST	2-WAY
	DAY	MONTH	YEAR				
VK3CME	3	01	2009	2141	432.1	5.9	SSB

NORMAN DEITCH
19° Alpine Crescent
7277 GRINDELWALD
TASMANIA - AUSTRALIA
E-mail: vk7ac@gmail.com.au

73's Norm Deitch
PSE QSL TNX Q



Two antennas met on a roof, fell in love and got married.

The ceremony wasn't much, but the reception was excellent.

A man walks into a bar with a slab of asphalt under his arm, and says:

'A beer please, and one for the road.'

I went to buy some camouflage trousers the other day, but I couldn't find any.

A man woke up in a hospital after a serious accident.

He shouted, 'Doctor, doctor, I can't feel my legs !'

The doctor replied, 'I know you can't - I've cut off your arms !'

Christmas at BARG 2008



If your picture is not here??? Sorry you will have to wait till next year....