

BREAKOUT

The Newsletter of the Hastings and
Napier Amateur Radio Clubs

Hastings Branch 13 NZART – Napier Branch 25 NZART

Volume 14, Issue8, September 2014



Hastings Br
13
Club Calls
ZL2AS
ZL2QS

Napier Br 25
Club Calls
ZL2GT
ZL2G

IRLP
Node
6793
147.250

**Branch
Nets**
9.00 AM
Sunday
Morning
3615 Hz
439.175
mhz

Editor
John Newson
ZL2VAF



*Some members of the Corn Flakes net gathered for a celebratory lunch
(Marilyn ZL2BOA, Eddie ZL2TEW, Dick ZL2UDE, Peter ZL2HM, Joy ZL2UGV,
Tony ZL2UBN, Peter ZL2AK, David ZL2DW)*

<http://www.zl2gt.com/blog/>

<http://groups.yahoo.com/group/zl2as/>



Join the KIWI DX Group
Talk to ZL2AL for Details

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Club Nights: Fourth Wednesday each month at 7.30 pm Pakowhai Hall, Pakowhai Road, Pakowhai

FROM THE "TOP MAN"

I wish Winter would finish then I'd feel a bit more like leaving the fire place and getting some ham radio under my belt, though I have managed to talk to Mike, N7TLL on 20m on occasions. Roll on Summer.

Clifton accessor has had a recent HF transmit failure of some kind, as was found during a couple of recent Sunday morning nets. After the rain and rain and rain ZL2DW and myself were able to go to the site on Mon. 15/10 and found nothing. No visible HF aerial faults and the HF transceiver dial was showing the right info., so ?????? The HF receiver seems to be fine. At least its "going" until we get back in Summer for the scheduled HF aerial replacement program.

We have firmed up on the Br 25/13 Combined Xmas tea. It will be at the Taradale RSA on 21 November, put this on your calendar and we'll get details to you asap.

Talking of meals, the Branch 13 visit to CHB on 22 October is booked (in lieu of the usual Pakowhai Hall meeting), based on history it'll be a great (light) meal and meeting, we look forward to seeing those from CHB and from Dannevirke etc.

Don't forget to get your Home Brew Competition entries into shape, the November Branch 13 AGM is not far away (photos are acceptable for those entries that won't fit through the door).

73 for now,
Rob Leicester
(ZL2US, Br13/HBARC President).

NAPIER BRANCH 25

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Committee Meetings: *Third Monday of the month 7pm at Club Rooms*

Club Calls: **ZL2GT, ZL2G**

Club Web Site: www.zl2gt.com/blog

Club Nights: *First Wednesday each month (except January) 7.30pm at the Club Rooms: 123 Latham Street Napier*

Napier A.R.C. News.....

Hi all, spring is sprung, it will be Christmas before we know it. The HF bands have been irregular, with a large solar CME taking out most of the higher bands for a few days. A few of the local hams have discovered VHF "simplex" operation, and just how far you can work without the need for a repeater. "Simplex" is a term used in commercial two-way radio to describe transmitting and receiving on a single frequency, direct radio to radio. No surprises for old-timers who were on two metres or 70 cm, before we had repeaters, when contacts over a 100 or 200 km path, with 20 or 30 watts of AM were not at all unusual. Naturally a hand-held with a rubber ducky antenna just wont cut it, you need a yagi antenna at a reasonable height, and a few watts of FM, or SSB even, but arrange a sked with a couple of other hams and give it a go. You might be surprised what you can do without the "crutch" of the local repeater.

Next NARC meeting is on Wednesday 1st October, topic will be a quiz night, followed by sticky buns and coffee or tea.

Having a Spring clean-out in the shack ? Don't forget the Manawatu ARS junk sale at Longburn on Saturday 4th October.
In the meantime, happy hamming.

ZL2TC

Cornflakes Net operators have a face to face



The Corn Flakes net has been running on week days (working days) at 7-30am since 1975. Recently a lunch gathering of participants and partners was held to put some faces to voices (for some). Net members come from a broad area between Waipawa (CHB) and Wairoa, including Napier and Hastings



Next Br 13/HBARC General Meeting

7-30pm Wed. 24 Sept, Pakowhai Hall.....all welcome.

David ZL2DW will give an incredibly boring talk (for some) on how 2m repeaters and the National System work, prompted by some incredible amazing and inaccurate comments made on and about them.....there's some correct tech'o stuff to be learnt here folks so do come along. This really will be "Radio 101 (minus 50)" but it's obvious that some don't understand what they're using. Come along and use the presentation as an education night and an opportunity to ask questions no matter how unknowing you may be or how silly you may think your question is.....if you don't know, chances are others won't either. Don't be shy.

Single Sideband simplified (or why doesn't my 100w rig put out 100w)

Single sideband transmission was devised in the 1920's by telephone engineers as a means of carrying several simultaneous conversations over a single pair of wires, and wasn't developed for radio transmission until stable crystal oscillators could be made. Those of you who graduated from 26 MHz "CB" will be familiar with amplitude modulation otherwise known as "AM" When you modulate an RF carrier with speech (or music) , sidebands are generated.

The RF carrier conveys no information, all the information is in the sidebands (an upper sideband, and a lower sideband). The RF carrier is only there to hang the sidebands on, and, as it contains no useful information, and wastes 50% of the transmitter power, we can dispense with it, thereby making the transmitter more efficient. (Called carrier suppression) And since the upper and lower sidebands contain the same speech information, we can eliminate one of them, which further reduces the bandwidth.

Hang on a minute, how can you receive it if there is no carrier ? Simple. In the receiver, we regenerate the missing carrier, then we can recover the original modulation.

Thats all fine, and it seems to work, but why doesn't my power meter or SWR meter indicate 100 watts from my 100 w rig ? Your transmitter is rated at 100 w **peak envelope power (PEP)** Note that word "**peak**". That means that on modulation "peaks" you are putting out 100W, but the trouble is the moving coil meter on your so-called power/SWR meter cant keep up with the short duration speech peaks, and so only reads "**average**" power, which is about 60% of the "peak" power. (If you want a more detailed explanation, refer the ARRL Sideband Handbook).

ZL2TC



From around the internet

SNAP THE INTERNET TO ANYTHING
INTRODUCING THE CLOUDBITT

http://littlebits.cc/cloud?utm_source=digg&utm_medium=banner&utm_campaign=CloudLaunch

This may make a few of your readers drool

<http://dangerousprototypes.com/2014/08/04/yihua-and-depu-electronics-market-visit/>

A blast from the past

<http://www.zl2al.com/3476/nzart-agm-1929/>

NZART WRC-15 Travel Fund

Supporting our Delegate, Don Wallace ZL2TLL, to attend the 2015 (WRC-15) ITU Conference, in Geneva

Platinum: Donations \$200 and over

Gold: Donations \$100 - \$199

Silver: Donations \$50 - \$99

Bronze: Donations \$10 - \$49

NZART is planning to send one Delegate to the ITU World Radiocommunication Conference in Geneva, from the 2nd to the 27th November 2015. WRC-15 Agenda Item 1.4 will consider a possible new allocation to the amateur service on a secondary basis in the band 5 250 to 5 450 kHz.

The Association's budget for next year will not cover the expected costs without reducing reserves as happened in 2012. We ask our members to make a donation towards this vitally important conference where Amateur access to the radio spectrum is decided.

This may be making a donation of your annual rebate, or a little more if you are able. All donations will solely be used for attendance at an ITU-R conference. Make your donation to NZART HQ and your Call-sign or Branch will be added to the Honour Roll list which will be printed in the September / October 2015 issue of Break-In. Some donors may wish to remain anonymous, provision for that is made.

Your Association is committed to the maintenance and expansion of the Amateur Service in New Zealand and having our ALO, Don ZL2TLL representing us at this conference is yet another example of our work in this area.

NZART HQ

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Letter to the Editor

PROTOCOL.

Roger? I come from the old days of CB, back in the 80's. Now, with our communications, is it Roger? ((I've finished my over). Roger roger? Copy? Copy copy? Over? Over over? Ova Ova? Back to you..... QSL? (God forbid 10/4) but now being (almost) retired, I listen to the National System, 146.700 and 147.250 most days, and another frequency as well, (but we won't go there)!! Hi, hi! And I hear so many variations.

I know a lot of our members are ex-cb, and a lot of 'tounge in cheek' banter still goes on. All in good fun. What happened to the Q code? QRZ etc. In the late evenings, I used to sign off ZL2RIC, QRT, toes north. (It was like little house on the prairy). Night Ric, night Ric, night Ric. The good old days.

Roger, copy that, over, Ova, QSL, back to you. Hi to members. May your QTH be blessed. (And your 807's be cool).

73's. Ric. ZL2RIC

Trans-Tasman Results

Callsign:	Name:	Category:	Points Claimed	Place	Operators
VK2CU	VK2CU, VK2AAH	160m - Ph, Multi-Op	659	1	VK2CU, VK2AAH
ZL3UR	ZL4RO ZL3LC	160m - Ph, Multi-Op	570	2	ZL4RO ZL3LC
VK2AWX	Hunter Radio Group	160m - Ph, Multi-Op	564	3	vk2fa,vk2ycj,vk2fwjl,vk2bdx,vk2il,vk2clh
ZL2AS	HBARC Hastings NZART Branch 13	160m - Ph, Multi-Op	523	4	Dave Sullivan,zl2ok and Gerard Butler,zl2gr
VK5ARG	Amateur Radio Experimenters Group Inc.	160m - Ph, Multi-Op	195	5	VK5ZM, VK5QJ, VK5AKH, VK5KX
VK3III	Wimmera Amateur Radio Group	160m - Ph, Multi-Op	54	6	VK3GP, VK3MIX
VK4YB	Roger Crofts	160m - Ph, Single-Op	717	1	Roger Crofts
ZL4R/ZL3	Ron M Falconer	160m - Ph, Single-Op	552	2	Ron M Falconer
ZL2W	Mike S Mather	160m - Ph, Single-Op	477	3	Mike S Mather
VK5CV	Andrew Russell	160m - Ph, Single-Op	111	4	Andrew Russell
ZL3TT	Kingsley Smith	160m - Ph, Single-Op	84	5	Kingsley Smith
VK3GK	Lee Moyle	160m - Ph, Single-Op	42	6	Lee Moyle
VK4QH	Ken	160m - Ph, Single-Op	6	ENTRANT	Ken
VK3WF	Stjepan Nikolic	80m - CW, Single-Op	277	1	Stjepan Nikolic
VK2AWD	David Avery	80m - CW, Single-Op	213	2	David Avery
ZL3VZ	Bill Cousins	80m - CW, Single-Op	203	3	Bill Cousins
VK2CCC/Q	Tomas Magyla	80m - CW, Single-Op, QRP	389	1	Tomas Magyla
VK2RQ	Matt Maguire	80m - CW, Single-Op, QRP	104	2	Matt Maguire
VK6XT	Rick Hill	80m - Dig, Single-Op	375	1	Rick Hill
ZL3VZ	Bill Cousins	80m - Dig, Single-Op	258	2	Bill Cousins
VK5NE	Paul Roehrs	80m - Dig, Single-Op	250	3	Paul Roehrs
VK2IUW	Hilary Bridel	80m - Dig, Single-Op	122	4	Hilary Bridel
VK5LJ	Lawrie Mew	Both Bands - CW, Single-Op	293	1	Lawrie Mew
VK2BJT	Ian Miller	Both Bands - CW, Single-Op	194	2	Ian Miller
ZL3YOK	Quentin Pooke	Both Bands - Multi Mode, Multi-Op	459	1	Quentin Pooke
ZL3YOK	ZL2ARC, ZL3YOK	Both Bands - Multi Mode, Multi-Op	459	2	ZL2ARC, ZL3YOK
VK2CL	Hellenic Amateur Radio Association of Australia	Both Bands - Multi Mode, Multi-Tx	939	1	VK2IR,VK2FMAD,VK2GR, VK3KAM, VK2FIRM, VK2RF
VK2IO/P	Gerard Hill	Both Bands - Multi Mode, Single-Op	613	1	Gerard Hill
VK4SN	Alan Shannon	Both Bands - Multi Mode, Single-Op	314	2	Alan Shannon
ZL1BHD	Steve Wright	Both Bands - Multi Mode, Single-Op	288	3	Steve Wright