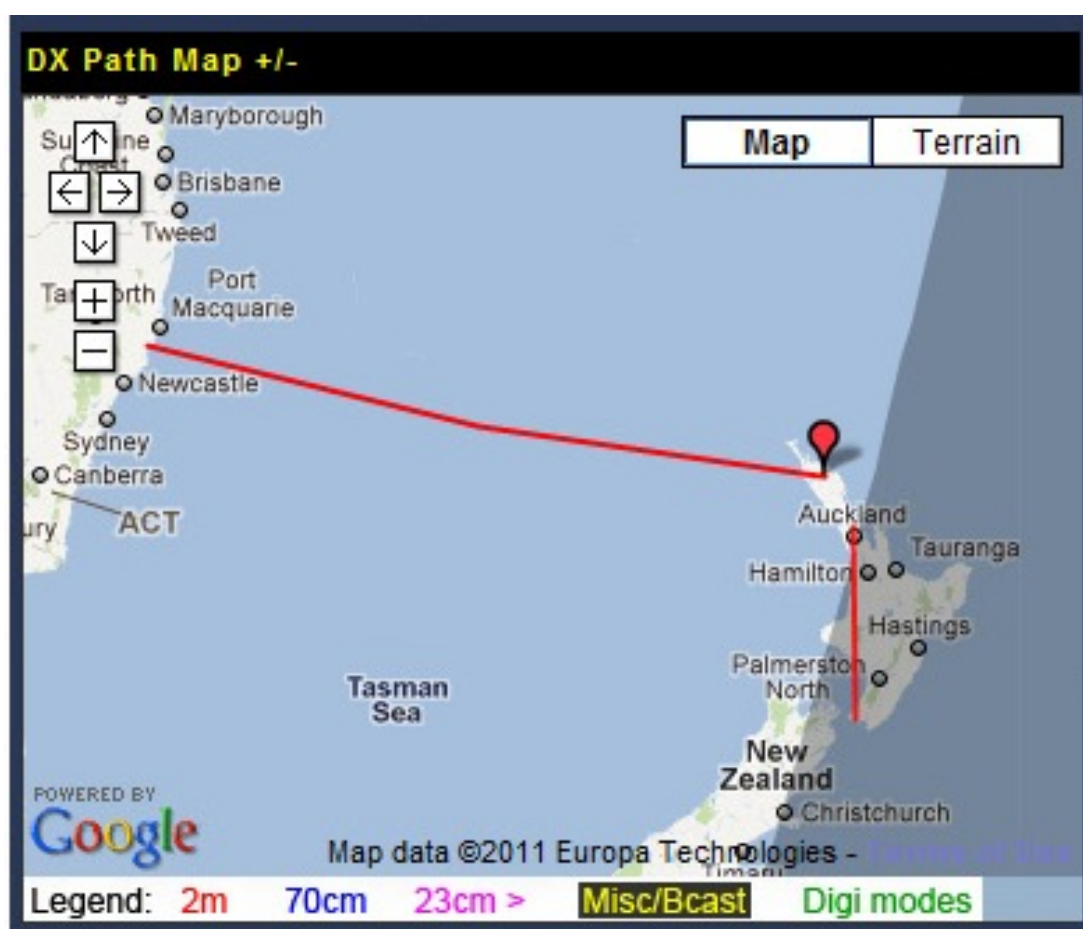
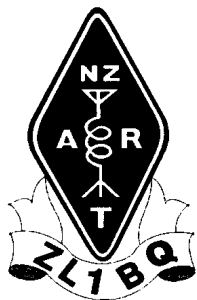


# The Official Newsletter of the Auckland VHF Group Inc. Spectrum



**First ZL to VK 144 MHz opening for the season  
(23<sup>rd</sup> August 2011 )**



# Auckland VHF Group Inc.

## Branch 66 NZART

PO Box 10138, Dominion Rd, Auckland 1446  
Clubrooms: Hazel Ave, Mt Roskill

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President	John Dunn	ZL1JD	473 9514	021 731 907	<a href="mailto:john.dunn@clear.net.nz">john.dunn@clear.net.nz</a>
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Secretary	Marlene Mathews	ZL1MYL	634 5130		<a href="mailto:perma@xtra.co.nz">perma@xtra.co.nz</a>
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	Laurie Mathews	ZL1ICU	634 5130	0274 817 463	<a href="mailto:perma@xtra.co.nz">perma@xtra.co.nz</a>
	Grant Taylor	ZL1WTT		021 234 0270	<a href="mailto:z1wtt1@yahoo.com.au">z1wtt1@yahoo.com.au</a>
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Repeater Trustee	John Dunn	ZL1JD	473 9514	021 731 907	<a href="mailto:john.dunn@clear.net.nz">john.dunn@clear.net.nz</a>
Klondyke Managers	ZL1TGC, ZL1BK				
690 Manager	Dennis Seymour	ZL1UET	532 8666		
850/670 Manager	Vaughan Henderson	ZL1TGC	418 1071	021 844 804	<a href="mailto:vaughanh@vodafone.co.nz">vaughanh@vodafone.co.nz</a>
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	Vaughan Henderson	ZL1TGC	418 1071	021 844 804	<a href="mailto:vaughanh@vodafone.co.nz">vaughanh@vodafone.co.nz</a>
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Webmaster	Hannes Hanekom	ZL1LW	4417576	02102396653	<a href="mailto:z1bq.webmaster@gmail.com">z1bq.webmaster@gmail.com</a>
Club Web Page	<a href="http://www.gsl.net/z1bq">http://www.gsl.net/z1bq</a>				
ATV Interest Group	<a href="http://www.gsl.net/z1qf/atvug/ATVusers.html">http://www.gsl.net/z1qf/atvug/ATVusers.html</a>				
ZL1VHD Dstar gateway administrator;	Laurie Mathews	ZL1ICU	6345130	0274817463	<a href="mailto:perma@xtra.co.nz">perma@xtra.co.nz</a>
ZL1VHD Dstar gateway registration URL :	<a href="http://z1vhd.ham-radio-op.net">http://z1vhd.ham-radio-op.net</a>				

### Club News and Net:

The combined Auckland VHF Group and Auckland Regional Branch News and Net are held on 146.625 MHz and 439.875 MHz at 8.15 pm each Sunday or after the ZL6A National Broadcast on the last Sunday of the month.

Club meetings are held at the Clubrooms at Hazel Avenue, on the second Monday of each month at 7.30 pm. For other details, listen to the News and Net each Sunday evening.

Membership of the Auckland VHF Group is via subscription; \$25. It is expected that members of the Auckland VHF Group Inc. are also members of NZART, as we are branch number 66 of NZART.

*SPECTRUM* is the official journal of the Auckland VHF Group Inc.

Opinions expressed are those of the authors and do not necessarily reflect club points of view. The closing date for *SPECTRUM* articles is the Monday 7 days before the following General Meeting. Articles may be submitted to the Editor.

## From the Chair – September 2011.

### *Last Months Meeting.*

Paul ZL4AX presented and demonstrated his excellent and entertaining talk about packet radio. Paul covered the development of Packet from the beginning and how it operates today – stressing the point that as an internal email system for amateurs, it still works extremely well for little cost.

There is quite a bit of information around if you want to get into Packet, and the equipment is readily available to adapt radios for this use. Contact Paul ZL4AX for an immediate guidance to this form of communication, or contact him directly on his Packet Radio Gateway ZL4AX-10:Pukkie on 432.675 MHz. He would love to hear from you.

### *Working Bee Planned for Klondyke.*

Several dates have been selected to start work on Klondyke, replacing rusted out cable tray at the top of the tower and replacing three feeders up the tower.

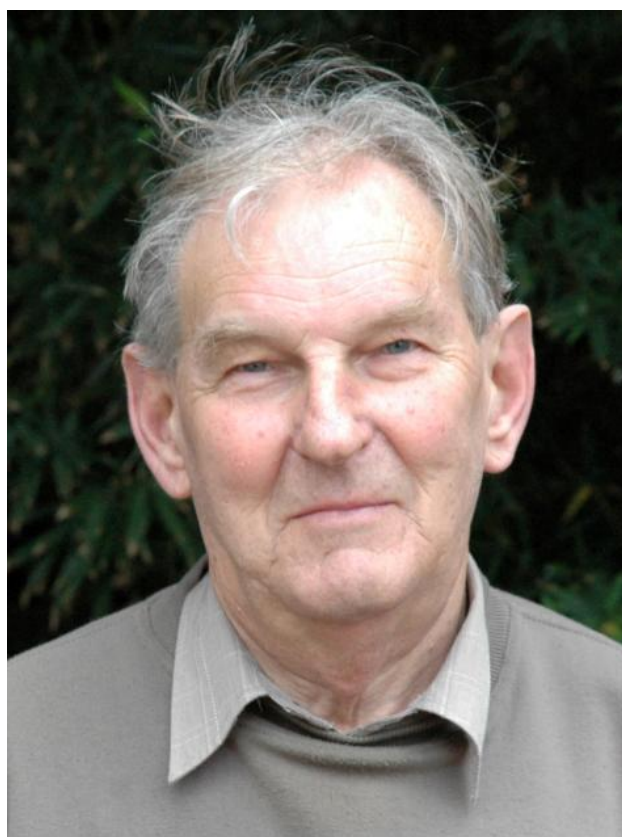
The dates are subject to weather and the availability of climbers. At the moment the 17<sup>th</sup> or 18<sup>th</sup> and/or 24<sup>th</sup> or 25<sup>th</sup> of September are planned, so if you are keen to come up to the site, keep an ear out on the repeaters for things to happen, or contact Vaughan ZL1TGC if you can lend a hand – particularly with climbing the 30 meter tower.

**LATE NEWS: The Klondyke Working Bee is confirmed for Sunday 18 September with a start time on site of 0930.**

### *Channel 39 ATV Off the Air*

A phone call from the RSM on Friday 29<sup>th</sup> July was received advising us that the Group may be in breach of its Channel 39 licence, and because of additional service requirements for the Rugby World Cup, asked that channel 39 be cleared. We were asked to turn our transmitter off, which we did as requested. To continue could have resulted in the immediate issue of a \$1200 fine to the Group.

A negotiated fine of \$250 has been presented to the Group. As a result the ATV transmitter will not be reactivated until the license issue has been fully resolved.



*John ZL1JD*

## ***AREC Section Active for Heritage Walks***

Coming up on Saturday September the 17<sup>th</sup> are the Heritage Walks in Onehunga. Our AREC section is providing assistance for crowd control etc., again this year. Two walks are planned, the first one starting at 10.30am and the second at 1.30pm.

If you would like to assist with this exercise, contact Laurie ZL1ICU on Phone (09) 634 5130, or make contact with Laurie on the AREC Net on Thursday's, 670 repeater at 7.30pm.

## ***Looking for Interesting Electronic projects***

We are looking for interesting electronic projects that would have a wide appeal as a kit-set for budding enthusiasts. The idea is that the Group would look seriously at producing the kitset's as a form of fund raising. All suggestions would be seriously looked at.

The ideas do not have to be restricted to just communication devices – though obviously they would be of interest to amateurs, but could include all sorts of useful electronic devices that have a practical use at the end of the day.

Email your suggestions or ideas to me ([john.dunn@clear.net.nz](mailto:john.dunn@clear.net.nz)) or drop us a note at a club meeting. Anything considered!

## ***THIS MONTHS MEETING:***

It has been a while now and also winter is just about over. Hiding on the work benches or inside the cupboard – or better still actually doing something – are all those secret projects that have been developed or worked on over recent years. It must be time to bring them out and show them off to everyone.

This also provides the opportunity to discuss the problems you might be having with the project and this sharing of information could provide some enlightening answers from the audience!

This is also an opportunity to rejuvenate the Jack Flower Cup for Home Brew equipment and award it to a successful winner. Judges have been appointed and prizes sought, so armed with your current project, come along to the next meeting and you never know – you might win a prize for your efforts.

This could turn out to be a fun night!

We look forward to seeing you all at the meeting – complete with project – September 12th, 7.30 pm, Hazel Avenue Club Rooms.

Best 73 de **ZL1JD**



# AUCKLAND VHF GROUP (INC) BRANCH 66

## **MEETING NOTICE**

**September 12th 7.30PM HAZEL AVENUE CLUB ROOMS**

(Located on left at the end of Hazel Avenue)

*The Evenings Subject:*

**“BRING AND SHOW EVENING”**

***ALSO* – “Home Brew Competition” –**

**Jack Flower Memorial Cup up for Grabs.**

Hiding on the work benches or inside the cupboard – or better still actually doing something – are all those secret projects that have been developed or worked on over recent years. It must be time to bring them out and show them off to everyone.

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*This could turn out to be a fun night!*

**EVERYBODY WELCOME**

# AUCKLAND VHF GROUP

## Dates to Remember over next few months.

**Every Thursday 7.30 pm AREC Net 670**

September 4<sup>th</sup> (Sun) 8.15pm News and Net 6625 and 9875

September 11<sup>th</sup> (Sun) 8.15pm News and Net 6625 and 9875

**September 12<sup>th</sup> (Mon) 7.30 pm Hazel Ave Clubrooms. Bring and Show! And Home Brew Competition – Prizes**

September 17<sup>th</sup> (Sat) Heritage Walks Onehunga. 10.30 and 1.30.

September 18<sup>th</sup> (Sat) Working Bee at Klondyke – climbers and weather dependent. Listen on the '6625 Repeater for updates

September 18<sup>th</sup> (Sun) 8.15pm News and Net 6625 and 9875

September 25<sup>th</sup> (Sun) 8.00pm Official Broadcast followed by News and Net 6625 and 9875.

September 26<sup>th</sup> (Mon) Committee Meet, 7.30 pm Hazel Ave

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**Every Thursday 7.30 pm AREC Net 670**

October 2<sup>nd</sup> (Sun) 8.15pm News and Net 6625 and 9875

October 8<sup>th</sup> (Sat) Western Suburbs Sale. AM

October 9<sup>th</sup> (Sun) 8.15pm News and Net 6625 and 9875

October 10<sup>th</sup> (Mon) 7.30 pm Hazel Ave Clubrooms

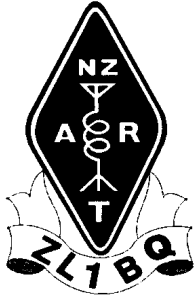
October 16<sup>th</sup> (Sun) 8.15pm News and Net 6625 and 9875

October 23<sup>rd</sup> (Sun) 8.15pm News and Net 6625 and 9875

October 30<sup>th</sup> (Sun) 8.00pm Official Broadcast followed by News and Net 6625 and 9875.

October 31<sup>st</sup> (Mon) Committee Meet, 7.30 pm Hazel Ave

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## Auckland VHF Group General Meeting Minutes for Meeting held Monday 8<sup>th</sup> August 2011

Call Meeting to order – Members in attendance as per meeting book.

Apologies: ZL1TTE, ZL1SLO.

Presidents Welcome & intro.

Members Identify themselves.

Minutes of previous General Meeting Moved ZLTGC , Seconded ZL1AWL.

Silent Keys – Merv Passau ZL1AKX & Ross Reddell ZL1VRR. The President ZL1JD gave a brief talk on the work these two members had done for the club over many years especially ZL1AKX All members present stood for 1 minutes silence.

The ATV transmitter is off the air. (Will be sorted out in due course.)

There is a fault with the controller at Klondyke. This means that we cannot switch the News & Net for Sunday nights so that up North can join in. It is also affecting the official broadcast getting across to 6625 on the last Sunday of the month.

General Business:

Hamilton Market Day – Meet at Club rooms on Friday Evening at 5.30 pm to load vehicles.

Meet at Auto Barn on Bombay Hills for breakfast at 7pm on Saturday morning August 13th.

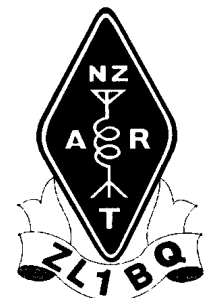
More articles required for Spectrum – forward to Steve.

Rack without doors for sale . Other rack sold.

September Meeting – Show & Tell.

Meeting Closed 7.50pm

Tonights speaker was Paul ZL4AX discussing Packet Radio.



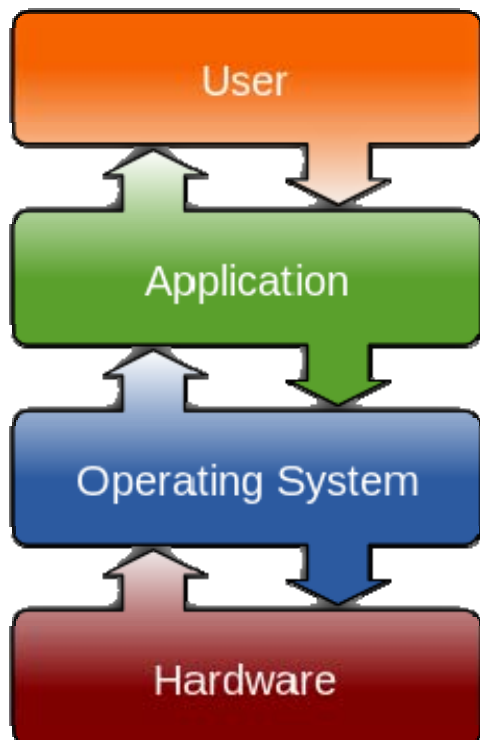
# DATV project: Grant Taylor ZL1WTT

## Background:

With changing technology and the move away from hardware to software base design. As with other parts of Ham radio where computers are being used for slow-scan Television and digital modes. So it only makes sense that digital ATV would make the same use of this technology. The approach is much the same as designing a circuit in hardware we by you brake down the circuit into different modules, this also applies with software.

## Introduction:

With Linux you are able to plug into the operating system via shell scrip files, this process can also be used to plug into any application or software modules. With Mpeg2 hardware encoder cards been available from Trademe at very little cost this has given me a means of experimenting with DVB transport streams. Where by, bypassing the need to spend a large amount of money on evaluation boards to do this at the hardware level.



## How this works:

There is very good driver support for a range of Hauppauge WinTV cards within Linux. So all I needed to do was to build up a DVD packet frame and stream this data to a DVB QPSK modulator.

**Step one;** (hardware or software encoder) encode the analog audio/video into Mpeg2

**Step two;** format the Mpeg2 data into a DVB transport packets

At this step you can check what is been sent by decoding the DVB packets and sending the Mpeg2 information to a hardware decoder or to a USB port if required.

**Step three;** encode this data into UDP packets to be sent via an Ethernet connection

**Step four;** use a layer one DVB media converter to output as an ASI signal

**Step five;** connect up a standard DVB L-band QPSK modulator to this ASI feed

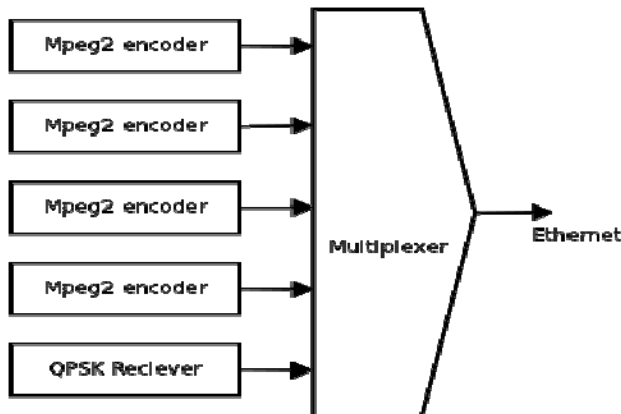
This software makes a good alternative way of building something for a repeater. My first option would be hardware based equipment but the cost would be to high for the ATV group or most radio clubs for that matter. Doing anything in software always comes with reliability problems and one way to minimize this is to remove anything that is Microsoft based. Then you are left with the hardware that could fail due to ware, like the hard drive or the power supply and so on. Using Linux I can configure the OS to auto boot, login and run the shell script file containing the device settings.

This is my assembled prototype for DATV re-peater setup inside a 19 Inch rack computer case. It has four AV inputs, one QPSK receiver and two IEEE1394 fire-wire inputs. The mother board is a 2 GHz Pentium4 CPU with 2GB of RAM running Ubuntu 11.04 as the operating system. Where by the DVB output stream is connected to an Ethernet port to layer one ASI converter.



**Photo is of back-panel with four AV inputs**

This block diagram shows the internal layout, the software that has been configured as a five input multiplexer.



Grant Taylor ZL1WTT 2011

## WARO News

On Saturday 13<sup>th</sup> August 2011, Hamilton VHF Group had their equipment sale.

The Waro ladies met up for a get together and Lynette ZL1LL was presented with the Myrtle Earland Rosebowl.

A photograph was taken of the group.

Some of us accepted the invitation to attend

**SPECTRUM** <http://www.gsl.net/zl1bg>

the BBQ lunch at Branch 89 Electronics & Radio Group. It was great to catch up with old friends. We were invited to stay for dinner at "The Glenview Club". 18 Radio amateurs enjoyed a lovely meal. Many ordered the porter-house steak & mushrooms. 10 out of 10. We then all took a vow to take a walk before breakfast on Sunday morning before ordering desert.

The Glenview club were holding meat raffles for \$2.00 per ticket. Out of our group ZL4GT won 5kg of Loin Chops, ZL1ICU won a Leg of Lamb & two other amateurs won 5kg of Steak & 5kg Roast of Pork.

One of the members took me to the Trophy cabinet to show me a trophy that is presented every year in memory of one of my close relatives. It was a pleasant surprise.

On Sunday 14<sup>th</sup>, August WARO held the Powder Puff Competition. The results are as follows.

**YLS 1st Marlene ZL1MYL 222**  
**2nd= Rosemary ZL1RO 195**  
**2nd=Marion ZL1BL 195**  
**4th Lynette ZL1LL 166**  
**5th Durlene ZL1ULK 112**  
**6th Alison ZLTXQ 106**

**OM's 1st Ian ZL1AOX 237**  
**2nd Gary ZL1WGL 227**  
**3rd David ZL1DK 225**  
**4th Laurie ZL1ICU 208**  
**5th Jim ZL1AYR 194**  
**6th Tom ZL1TO 171**

It was very sad news to hear of Geoff Reed ZL1AKY becoming a silent key while we were in Melbourne, fortunately we arrived back in New Zealand in time to attend the funeral on August 24<sup>th</sup>. WARO was well represented by those in attendance. Our thoughts go out to Celia ZL1ALK & her family.

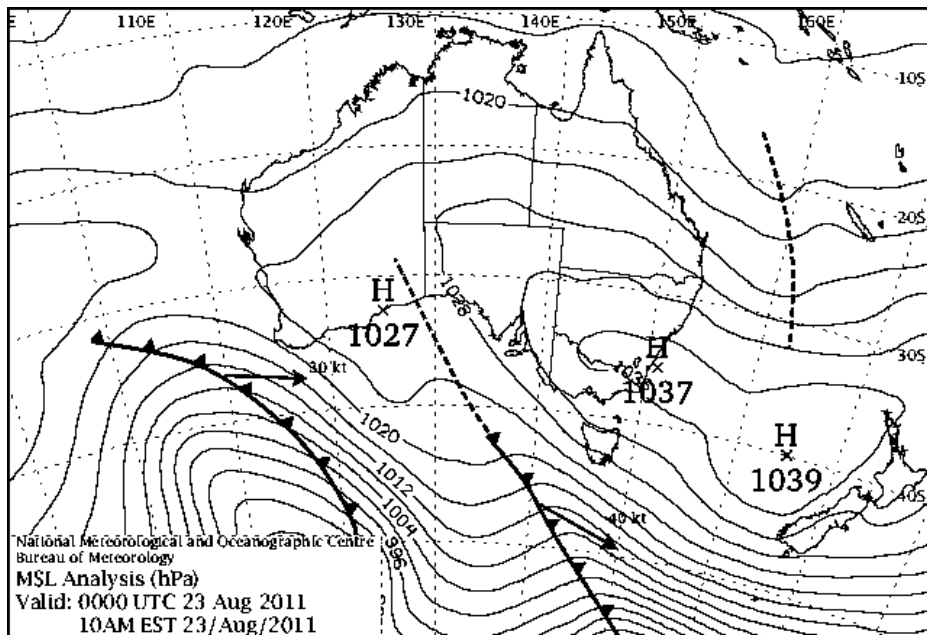
Amateur Radio has lost another good keen operator & a real gentleman.

**73 Marlene ZL1MYL**

## 2 m band DX to Australia report

The first 2 m band opening to VK occurred on the 23<sup>rd</sup> August 2011 between Nick ZL1IU in the Bay of Islands, across to Ross VK2DVZ at 2009 km (1248 miles) SSB 5/2 then to VK2BCC at 2165 km (1345 miles) 5/9 SSB. This opening was remarkably early for the 2011/2012 summer DX season.

The weather map shows a high across the Tasman Sea and of note is the cold front coming across the south of Australia. Both of these would have attributed to the temperature inversion or ducting path across to VK.



## A milestone, 2 m DXCC awarded to Bob ZL3TY

Yesterday the postie delivered 2m DXCC certificate #69, dated June 22, 2011. This is a first for ZL, Oceania and possibly the Southern Hemisphere. The list of 2m DXCC recipients can be seen at <http://www.arrl.org/system/dxcc/view/DXCC-2M-20110818-A4.pdf>

All but one of the QSOs was made by EME (moonbounce), the exception being a meteor scatter QSO with VK0MT on Macquarrie Is.

My first 2m EME QSO was with W5UN on 16 June 2002. Other stats:

EME QSOs	1214
Initials	653 (individual stations worked)
Gridsquares	402
DXCCs	109

All but a few CW QSOs were made using WSJT digital mode (by K1JT). WSJT has revolutionised VHF DXing and made EME possible for small stations, for example I have worked many single yagi stations, the smallest 100W to 10el yagi. My QTH is good for moonset with a clear horizon over the sea, which gives strong ground gain at times. Activity on 2m EME is very good with lots of DXpeditions to rare locations, I have lost count of the number of QSOs with Bob ZL1RS from remote spots.

My station is 4x12el yagis, TS790A with MGF1302 GaAsFET preamp, GU74b amp 500W. Antennas, preamp, TX amp and other bits all homebrew.

Bob ZL3TY

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## 2011 VHF-UHF-SHF Contest Calendar

*Remaining VHF Contests for 2011*

### Microwave Contest

All bands 614 MHz and up. Saturday the 1st and Sunday the 2nd of October.

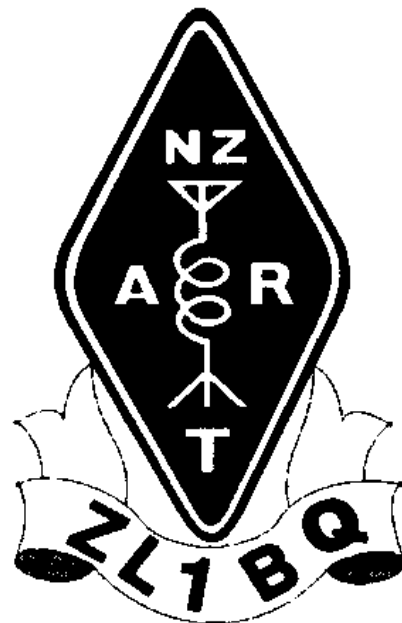
### Field Day Contest

All bands 50 MHz and up. Saturday the 3rd and Sunday the 4th of December.

For all contests, the operating periods are 1700 to 2300 on the Saturday, and 0700 to 1300 on the Sunday, NZ local time.

The complete Contest Rules are available at: <http://www.vhf.org.nz/pubs/Contests/VHF-UHF-SHF-ContestRules>

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## 122 GHz report from the VK microwave reflector

This Posting is to advise that earlier today, August 21st 2011, Michael - VK3KH and myself, Alan - VK3XPD Set the First VK, 122 GHz Distance Record over a path of 1.51 Kilometres in the Melbourne suburb of Cranbourne.

Our Signal Reports were somewhat generous at 5+1 Both Ways with fast QSB and even faster Frequency Drift.

Since the Transverter design allows for operation on either 78 or 122 GHz by simply changing an Oscillator Frequency, our first "test" QSO over 400 metres was on 78 GHz. Once we had confirmed the Transverters were working and the Dish "pointing" had been optimised, we then changed the Master Oscillator Frequency on each Transverter for our 122 GHz attempt. Signal Reports for our SSB QSO were an excellent 5+7 Both Ways.

I then relocated and Setup the gear for a 1.51 Kilometre path.

Unlike our previous 76/78 GHz Record, this Contact was not easy. Despite thinking our Dish Pointing and the Rx Mixer Bias were set correctly; we initially could not find any sign of our 122.25015 GHz Signal. However, after a few more "tweaks", we finally found our elusive 122 GHz Signal with "Ident" way down in the Noise. Further optimisation raised it to a workable Signal Strength.

Both of us have noticed that the "pointing" of a relatively small 300mm Dish at this Frequency was extremely sharp in both "planes" !!!

Weather conditions were sunny and warm with light winds... nice for Amateur Radio but NOT good for 122 GHz Propagation due to the rising Humidity.

The construction techniques used in these Transverters is all Homebrew. It is NOT... DB6NT based.

A detailed "write-up" of how I developed this relatively "simple" Transverter covering BOTH 78 and 122 GHz Bands will follow shortly.

Our next goal is to extend the current 76/78 GHz 1.5 Kilometre path.

Cheers from Alan - VK3XPD & Michael - VK3KH.

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### 122 GHz activity in ZL Feb 2010:

Equipment was assembled to establish contacts on the relatively new allocation at 2.5 mm in ZL in 2002. With the low power and small horn antennas this equipment yielded 32 metres range on NBFM mode. At this time stable oscillators and suitable mixers were not commonly available for transverter construction and the simpler technique of duplex operation was used. A Gunn oscillator and Gunn amplifier at 20 GHz are varactor multiplied by six times and transmit via a circulator to a 100 mm conical horn. A X coupler supplies a portion of this outgoing signal to the RX detector diode which is connected to the circulator RX port, this arrangement gave better results than using a circulator alone as the LO injection device.

This month some 30 cm Cassagrain dishes were added to the horn antennas and the RX IFs improved in an effort to obtain more distance. 300 metres was the result using NBFM and presence of the fast varying carrier was also detected using SSB mode at 400 metres range. Operators of earlier style microwave stations will appreciate the effects of wind temperature shifts on the equipment and the difficulty of tracking free running oscillators with narrow bandwidth receivers; we were as well having difficulty aligning on side lobes of the very narrow beam width antennas. In the best of tradition, some patience and perseverance, good DX did come on this third trial.

Report: Ralph Sanson ZL1TBG

## Dear Entrant in the 2010 Oceania DX Contest

The Oceania DX Contest Committee is pleased to advise that the results of the 2010 contest are now available at [http://www.oceaniadxcontest.com/2010\\_Results.htm](http://www.oceaniadxcontest.com/2010_Results.htm)

A total of 1092 logs were processed which is a new record and a big step up from the previous record of 999 logs in 2009. This ongoing increase in participation is most encouraging and can be attributed to a combination of factors including the introduction of new categories and plaques, improving conditions on the higher bands and growing awareness of the contest.

The increased participation and improved conditions meant that overall QSO activity also reached a new high with 21% more QSOs being logged in 2010 than in 2009. In particular, the 15M band really came to life and ended up carrying the majority of the traffic in the contest.

Several changes were made to the categories for the 2010 contest – the Single Operator categories were split into low power and high power categories, and the Multi-Single category was split into one transmitter (M1) and two transmitter (M2) categories. The Committee is pleased to note that the new categories appear to be having the desired effect of boosting participation from low power stations and from smaller multiple operator teams that have limited resources.

### 2010 CERTIFICATES

The Committee has made some changes to the

certificate arrangements for the 2010 contest. The purpose of these changes is to make a wider range of certificates available, reduce costs, and speed up the delivery process.

Firstly, as well as awarding certificates to the top scoring station in each category for each continent and country, participation certificates identifying the number of successful QSOs are being awarded to every station that submitted a log for the contest.

Secondly, rather than posting the certificates, they will be published online as pdf files for you to download and print at your convenience. The link to the online certificates will be published on our web site at <http://www.oceaniadxcontest.com/index.html>

Thirdly, certificates can still be posted but only in response to specific requests from entrants who won a category in their country and made more than 10 QSOs in that category. If you wish to make such a request then please submit it as an email message to [info@oceaniadxcontest.com](mailto:info@oceaniadxcontest.com) by 9 September 2011. Remember to include your call sign in the message. Note that participation certificates are not eligible for delivery via post.

### LOG CHECKING REPORTS

Log checking reports are available for each entry in the 2009 contest. These reports provide details about the calculation of your score, including the QSOs that have been removed from the score and the reasons for their removal. You can request your report by sending an email to [info@oceaniadxcontest.com](mailto:info@oceaniadxcontest.com) stating the call sign and mode (PH or CW) that you used in the contest.

## 2011 CONTEST

The next Oceania DX contest will be held on the first two full weekends of October 2011 as follows:

PHONE: 08:00 UTC Saturday 1 October to 08:00 UTC Sunday 2 October 2011  
CW: 08:00 UTC Saturday 8 October to 08:00 UTC Sunday 9 October 2011

The full set of rules for the 2011 contest is available from our web site at <http://www.oceaniadxcontest.com/rules.pdf>

THANK YOU!

Finally and most importantly, thank you for participating in the 2010 contest and making it such a success. We look forward to seeing you again in the 2011 event. There should be more sun spots and even better HF conditions to make it the biggest and best Oceania DX Contest party yet!

73 from

Oceania DX Contest Committee

ZL1AZE/VK3, ZL3GA, VK2HN, VK3TZ,  
VK4TI, VK6DXI, VK7GN

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## 3.4 GHz transverter kit project!

A new microwave transverter for the 9 cm band (3.4 GHz) was recently constructed using the designed and produced transverter boards from Graham VK3XDK. This transverter also includes his PLL board for oscillator injection that is referenced to either the internal 10 MHz OCXO mounted inside the transverter box itself, or external optional GPS reference via BNC connectors at the rear.

The 9 cm amateur band allocation spans from 3300 MHz to 3410 MHz in New Zealand. The IF or intermediate frequency chosen is 432 MHz with an FT817 radio for 3400 MHz with all mode capabilities. This project was to place another working transverter on this band allocation and to the best of my knowledge there are another nine operational 3.4 GHz capable stations in ZL at this time.

Two FUJITSU 3.9 GHz Gas-As FET power amplifiers were acquired surplus and modified with added inbuilt minus volt inverters for +12 volts only connections externally and then flaked for the best down on 3.4 GHz. These were then combined with 3 dB SMA couplers for an output power of around 8 Watts. Both PA's are mounted back to back.

Steve, ZL1TPH

### 3.4 GHz 5 Watts Gas-As PA (below)



# NZART Headquarters Infoline Issue 236

21 August 2011

A special Request - I have received the following request from the son of a silent key, hopefully someone in New Zealand will be able to help, if so please contact Dave directly.

My father was an avid HAM operator in the late 40's and 50's. We lived on Waiheke Island in Auckland until he was drowned in a boating accident in 1957. His call sign was ZL1MG. I remember he had a lot of call cards from other operators and he sent out a few as well. I was wondering if any of your members would happen to have one of his original cards and be willing to send me a copy or be willing to sell it.

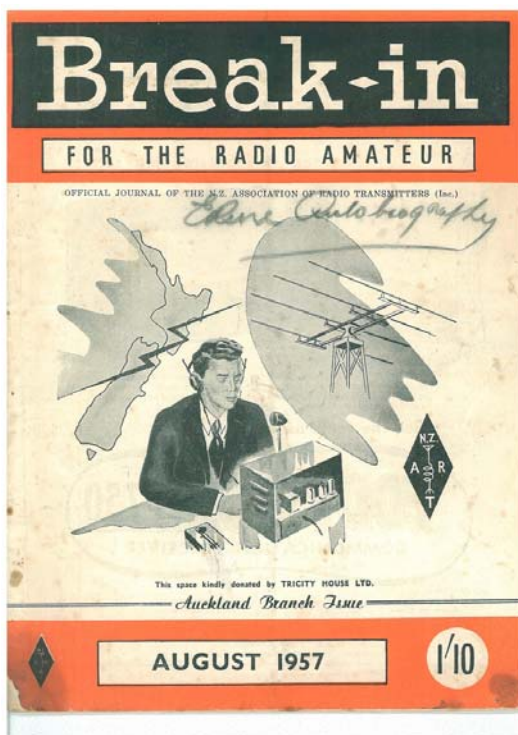
David Parkin

T (home) 09 5253923

T (work) 09 3014471

E (Home [d.parkin@xtra.co.nz](mailto:d.parkin@xtra.co.nz))

E (work) [dave.parkin@gen-i.co.nz](mailto:dave.parkin@gen-i.co.nz)



## TRADING TABLE – NEW New!

Heatshrink Sleeving Black 18mm diameter x 1m long 50c per length

Heatshrink Sleeving Black 10mm diameter x 1m long 50c per length

**Insulation tape** Black 18mm wide, 20m roll \$1.00 each

**Insulation tape** Black 18mm wide, 30m roll (limited stock)  
\$2.00 each



Self-Amalgamating tape 19mm x 10m roll German made  
\$5.00 each

**Solder** 60/40 tin lead 0.7mm diameter rosin core 0.25kg roll  
Fry Technology brand made in the UK.

\$5.00 per roll



**Loctite RTV** silicon adhesive AS310. Clear, acid cure 100g tube \$2.00 per tube

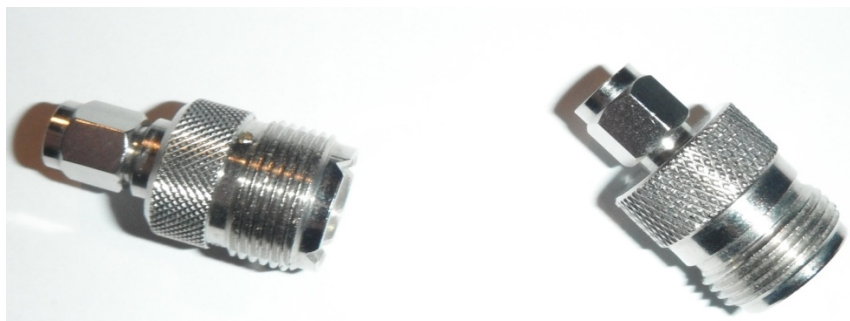
Use by date expired however still works OK!.

**Cable ties**, 290mm x 4.8mm clear. In bags of 50 \$2.00 per bag

Limited stock:

**Coaxial adaptor** SMA Male to UHF Female \$3.00 each

**Coaxial adaptor** SMA Male to N-type Female \$3.00 each





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**The Auckland VHF Group Inc Branch 66 NZART gratefully acknowledges the sponsorship of Branch 66 Beacons, Repeaters and Fixed Links licence fees and the Group's repeater operations by the following radio amateurs and NZART Branches:**

53.725 Repeater - Tim Moore VK4TIM / ZL1TN	144.253 Beacon - Steve Hayman ZL1TPH
144.575 Digipeater - Franklin Branch ZL1SA	145.625 Repeater - Jim Meachen ZL2BHF
146.625 Repeater - Frank Dunatov ZL1SLO	146.700 Repeater - Western Suburbs ARC
146.900 Repeater - Franklin Branch ZL1SA	432.235 Beacon - Steve Hayman ZL1TPH
438.450 Repeater - Laurie Mathews ZL1ICU	438.500 Repeater - Franklin Branch ZL1SA
439.850 NatLink - Franklin Branch ZL1SA	439.875 NatSys Repeater - John Dunn ZL1JD
439.900 NatSys Link -	439.950 NatSys Link - Vaughan Henderson ZL1TGC
615.250 ATV Repeater - AKVHFG ATV Group	1296.253 Beacon - Steve Hayman ZL1TPH

Papakura Radio Club Branch 65 NZART Donation of \$300.

Manukau Radio Club Branch 21 Donation \$100

ZL1UPB Donation \$100

If you would like to support the Auckland VHF Group by sponsoring the licence fee for one of the available Beacons, Repeaters or Fixed Links or donate towards the Group's repeater operations please contact Jim ZL2BHF by email - [zl2bhf@clear.net.nz](mailto:zl2bhf@clear.net.nz)

# TRADING TABLE

## AREC recommended "T" type connectors:

Set of male and female quick connect terminals and housings similar to illustration. Terminals are tin plated, not brass as shown.

Only \$2.00 per set

Back in stock: **PL259 UHF Connectors and Reducing Adaptors.**



UHF-MALE (PL259) connector is nickel plated, with a tapered brass tip, brown phenolic insulation and heavy duty knurling. Suits RG8, RG213 50 ohm coaxial cables. These connectors perform satisfactory up to 200MHz, and are usable with caution up to 500MHz. The voltage rating is 500 volts RMS.

**Our price: \$2.50 each or 10 for \$20.00**

Nicely machined reducer which screws into the back of the PL-259 connectors.

Nickel-plated on brass construction, will fit RG58/U 50 ohm coaxial cable.

**Our price: 50c each.**

## DATA MODES & UTILITIES CD

Over 270 programmes, utilities, tutorials on just about every aspect of Ham Radio you could want. Many useful utilities, logging programmes, amateur satellites, digital modes, test equipment. Software Defined Radio, PCB design programmes, this CD has got it all!

Latest version is V 10.9.

**Still only \$10.00**



## CONNECTORS

New stock just arrived of type N connectors for use with RG58 coaxial cable. These are solder clamp type, just the thing if you don't have the right crimp tool!



**Only \$5.00 each – be in quick, we only have limited stock.**

### Other coaxial connectors available from the Trading Table:

TNC plugs 50ohm for RG58 coax (crimp and clamp/solder type available)	\$2.50 each
BNC plugs 50 ohm for RG58 coax (solder/clamp on type)	\$2.50 each
BNC plugs 50 ohm for RG58 coax (crimp on type)	\$2.50 each
BNC sockets 75 ohm – single hole mounting	\$1.50 each
BNC jack cable end crimp type 50ohm for RG58 coax Radiall R141237161	\$1.50 each
PL259 coaxial plugs. Genuine Amphenol 83-ISA brand. Brown phenolic insulation. Suit RG8/RG213 50 ohm coaxial cable.	\$3.50 each
SO239 chassis mount socket (4-hole flange)	\$2.00 each
N Type male solder on suit RG213 coax	\$4.00 each
N Type male quick-fit (solderless press fit into centre pin) for RG213	\$8.00 each
N Type male right angle, suit RG213 coax	\$4.00 each
N Type male crimp on suit RG213 coax **	\$3.00 each
N Type socket crimp on suit RG213 coax **	\$3.00 each
N Type male silver plated solder/clamp on suit RG58 coax	\$3.00 each
N Type male crimp on suit RG58 coax (only a few left) **	\$2.50 each

\*\* Crimping service available for these at club meetings.



**Back in stock:**

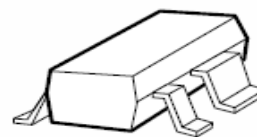
**ATF55143 Low noise E-PHEMT 0.6 dB noise figure.**

Low noise amp for frequencies between 450MHz and 6GHz.

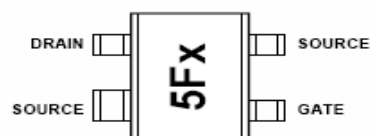
SMD package SOT343  
(4 lead). Data sheet available.

Available from the Trading Table for  
Only \$1.50 each.

**Surface Mount Package  
SOT-343**



**Pin Connections and  
Package Marking**



**Note:**  
Top View. Package marking provides orientation and identification

"5F" = Device Code  
"x" = Date code character  
identifies month of manufacture.

Don't forget our range of specialty

fixed and variable capacitors:



**Variable Capacitors:**

0.2-4.5pF GHW4R5000. Glass piston trimmer

(Sprague-Goodman) [scase] \$4.00 each

1 - 14 pF Murata MVM0145 [scase]  
\$2.50 each



1.7-11pF	T6-5 125V DCW. Johnson T-type, Q=2000@1MHz [scase]	\$3.00 each
1.4-9.2pF	189-503 air variable [scase]	\$2.00 each
1.8 – 10pF	Philips high temp. film dielectric [B.5.9]	\$1.00 each
1 - 52pF	TP52CA glass piston trimmer (Voltronics) [scase]	\$3.00 each
2 - 20pF	150V Philips film dielectric green [A.6.1]	\$1.00 each
3 – 65pF	250V Philips film dielectric yellow 10mm [A.6.2]	\$1.00 each
3 -16pF	Ceramic pcb mount. Packed in bags of 10 [A.6.3]	\$1.00 bag
4 - 40pF	100V Philips film dielectric high. Temp. (2222 809 08002) [scase]	\$1.00 each
5 -15pF	100V film dielectric [A.6.4]. Packed in bags of 10.	\$0.50 bag
5 - 20pF	100V Murata TZ02R200. Packed in bags of 5. [A.6.5]	\$1.00 bag
7 – 40pF	Mica compression type. GMA30200	\$1.00 each
5 - 100pF	Mica compression type [A.6.7]	\$1.00 each
16 - 100pF	Mica compression type GMA70300 [scase]	\$1.00 each
25 – 150pF	Mica compression type 424	\$1.00 each
2-gang	Miniature broadcast type [A.6.8,9]	\$0.50 each

See our website: <http://www.qsl.net/zl1bq/>

for the full Trading Table List.

