

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



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Auckland VHF Group Inc.

Branch 66 NZART

PO Box 10138, Dominion Rd, Auckland 1446
Clubrooms: 30 Hazel Ave, Mt Roskill

Office	Name	Call sign	Work / Mobile	E-mail
President	Currently Vacant			president@aucklandvhf.org
Vice President	Philip Sharp	ZL1PSH	027 2030 428	vicepresident@aucklandvhf.org
Secretary	Currently Vacant			secretary@aucklandvhf.org
Treasurer	George Raffles	ZL1TUX	021 735 361	treasurer@aucklandvhf.org
Committee	Darryl Grange	ZL1TCI	021 123 7733	darryl@aucklandvhf.org
	George Marr	ZL1TUJ	0274 309 438	
	Jim Logan	ZL1DI	021 331 747	
AREC Group Leader	Matthew King	ZL1YOT	022 649 3310	matting@gmail.com
Deputy Group Leader	Currently Vacant			
ZL1BQ Trustee	Vaughan Henderson	ZL1VH	021 844 804	zl1bq@aucklandvhf.org
Head Repeater Trustee	Vaughan Henderson	ZL1VH	021 844 804	repeatertrustee@aucklandvhf.org
Klondyke Manager	Vaughan Henderson	ZL1VH	021 844 804	6625@aucklandvhf.org
670 Manager	Vaughan Henderson	ZL1VH	021 844 804	670@aucklandvhf.org
690 Manager	Dennis Seymour	ZL1UET	09 278 0381	690@aucklandvhf.org
850 Manager	Vaughan Henderson	ZL1VH	021 844 804	850@aucklandvhf.org
Spectrum Editor	Mark Howie	ZL1UMK	022 047 3240	spectrum@aucklandvhf.org
Trading Table	Currently Vacant			tradingtable@aucklandvhf.org
Account Reviewer	Basil Orr	ZL1TOW	021 867 367	
ZL1VHD Dstar gateway administrator:	Laurie	ZL1ICU	634 5130 0274 817463	perma@xtra.co.nz
ZL1VHD Dstar gateway registration URL :			http://zl1vhd.dstar.org.nz	
Webmaster	Terry Corin	ZL1BPA	027 697 4686	webmaster@aucklandvhf.org
Club Web Page:				http://aucklandvhf.org

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.

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 by the 1st of each month. Articles to be submitted to the editor Mark ZL1UMK
spectrum@aucklandvhf.org

Auckland VHF Group (Inc) Branch 66

**The next Auckland VHF Group General Meeting
be held on
Monday 13 March
At the Clubrooms, 30 Hazel Avenue at 7:30 pm**

Speaker: Andy Brill - ZL1COP

Subject: The Technical Aspects of AREC.

Rescheduled from February

**At the May 2022 Committee Meeting it was determined that
“The wearing of Face Masks at our General Meetings is now optional”**

Coming Events:

Registrations for 2023 NZART Conference are now open.

The organisers welcome you and your clubs to join us this year in Palmerston North.

Any questions – contact conference@nzart.org.nz

The Conference is happening on, Kings Birthday Weekend

3 & 4 June 2023

Registration form here <https://nzart-conference.nz/page2.html>

Auckland VHF Group Vice-President's Column

Philip Sharp — ZL1PSH

zululima1psh@gmail.com



Auckland's AREC Cyclone Gabrielle Activation

I would like to thank the Branch 66 members who operated as part of Auckland's AREC Cyclone Gabrielle Activation. There were Branch 66 members operating at the North Shore Comms Base and remotely.

Although the storm caused considerable damage in the Auckland area, there was no prolonged and widespread cellphone outages. This meant that much of the emergency communication was conducted using cellphone. One consequence of this is that AREC operators were not busy all the time. Nevertheless, the operators played a vital role in the response to the emergency.

Branch 66 Needs Your Support

Branch 66 is still without a president and a secretary. If these positions are not filled, Branch 66 will need to consider disbanding or merging with another NZART branch in Auckland. The committee does not want this to happen and needs your support to ensure Branch 66 continues as an independent branch.

One obvious way to support the branch is to stand for the position of president or secretary. The appointment would be to the next AGM only. If you are interested in standing for one of these positions, you can email me or any other member of the committee.

Another obvious way to support the branch is to attend the March general meeting. The business part of this meeting will discuss the current state the branch finds itself in.

If you are reluctant to stand for president or secretary, a less obvious but no less important way for you to support the branch is to consider what changes the branch would need to make to overcome your reluctance to stand. It could well be the branch can make these changes without compromising the branch and its activities.

Not unique to Branch 66

Branch 66 is not unique in having unfilled officer positions. Branch 02 held its AGM mid-February and there were no nominations for president, vice-president and secretary. Branch 02 is now following a similar path to Branch 66 in an effort to continue as an independent branch.

Upcoming Events:

25 March. Te Puke Branch 2023 Market Day. Paengaroa Community Hall. 4 Old Coach Rd, Paengaroa. Venue opens at 0630hrs for vendors. Sale begins at 0930hrs.

\$2 door charge to help to recover costs.

25 & 26 March. Amateur Radio Ham Cram Course. The North Shore Radio Club is running another Ham Cram course over the weekend of 25 & 26 March. Anyone interested in attending, please contact Vaughan Henderson—ZL1VH. Email: zl1vh@gmail.com.

13 & 14 May. Rally Whangarei. Amateur radio is again providing communications for Rally Whangarei over the weekend of 13 & 14 May. If you are interested in participating, contact our AREC Group Leader, Matthew ZL1YOT. His contact details are on Page 1.

My journey into DMR

Mark Howie — ZL1UMK



I'm certainly no expert on DMR, but am simply sharing my journey.

Over the Christmas holiday break, I decided to buy a TYT DM-390 DMR handheld radio from a TradeMe seller in Christchurch.

I have been considering getting a DMR radio for a while. I have the use of a club owned TYT MD-380 (the previous model to mine) programmed with the AREC codeplug. However the DM-390 is the first DMR radio I have owned.

DMR

Digital Mobile Radio – Originally a commercial standard, now used by amateurs as well. So some of the terms and processes, don't seem to make sense when seen from a ham radio perspective.

Some DMR terminology:

Codeplug – a set of programmed frequencies \ channels.

Zone – a number of channels grouped together for convenience.

TYT MD-390 Capabilities

Digital and Analogue FM

136 MHz to 174 MHz

400 MHz to 480 MHz

The radio has two memory banks so possible to for example have digital DMR in bank A and analogue 2m in bank B

Zones -250

Channels – 300

Channels per bank – 64

10,000 digitals contacts

GPS capable (option)

To begin the process you need to get your DMR ID (personal to you) from radioid.net

My suggestion is to use TYT CPS (CPS) **only for reading and writing** to the radio.

Use G6AMU Code Plug Editor (G6 CPE) for the majority of the Code Plug work.

Before you begin Save the initial Codeplug from the radio using CPS.

Store your DMR ID into the radio: G6 CPE: General Tab: Radio ID field (**required**)

Store your callsign into the radio: G6 CPE: General Tab: Text Line 1 field (optional)

Store your name into the radio: G6 CPE: General Tab: Text Line 2 field (optional)

Set the timezone into the radio: G6 CPE: General Tab: Timezone field UTC + 12 hours (non-daylight saving time) (optional)

2 metre bandwidth = 25 kHz

PRS bandwidth = 12.5 kHz

Testing

Receive PRS Channel 1 from my Baofeng UV-82

Transmit on PRS Channel 10 to my Baofeng UV-82

Hear ZL1THH DMR via AKL-WWE

Transmit to DMR ID 5301066 (Branch 66 – AREC TYT MD-380 #4) which I currently have. Not heard by MD-380, but the communication showed up in the ZL-TRBO log.

Transmit and Receive on PRS Channel 10 with a Uniden UH755.

To be continued

Useful Resources:

Radioid.net: <https://www.radioid.net/account/register> (becoming a **member** of Radio ID is **optional**)

The Smoking Ape Youtube channel:

DMR for beginners: <https://www.youtube.com/watch?v=5FAft1QCtC0>

Bridgecom Systems Youtube channel:

<https://www.youtube.com/@BridgeComSystemsInc/videos>

Amateur Radio Guide to Digital Mobile Radio:

<https://drive.google.com/file/d/1eiaYNR65RJanxnVbXdrWBS4cNG50mqn1/view>

Programming cable driver

<https://www.radioddity.com/pages/tyt-download>

Select MD-390 (Non GPS) or MD-390G (GPS) & then Driver of Programming Cable

TYT Downloads Page:

<https://www.tyt888.com/?mod=download>

USB Driver for digital radio

NZART AREC Code Plug:

<https://arec.nz/downloads/>

MD380-ZLmaster-latest

G6AMU (Cathy) Code Plug Editor v1.23: https://premier01.com/G6AMU_CPE.html

TYT CPS v1.09 – Supplied with Radio

Do you have a contribution for Spectrum?

Any and all contributions, would be welcome.

I don't promise to publish everything I receive, but would be glad to receive suggestions or contributions.

VHF Group Subscriptions are now due for 2022-2023 year.

Subscriptions are now being accepted for the 2022-2023 year, 1 July 2022 to 30 June 2023.

This coincides with the change of the financial year to ending 30 June 2023.

The change is intended to give sufficient time to get the accounts sorted and reviewed before the AGM in November 2023. Invoices will be sent out in May to all members who have not renewed by that time.

Note on Subscriptions

- a. There is an increase for the 2022-2023 subscription year.
- b. All yearly subscriptions terminate on 30th June each year. To keep your membership active, we need to receive your subscription renewal by that date.

Subscription Type	Subscription Price
Ordinary Members (Full)	\$65.00
Associate Members	\$55.00
Family Members	\$25.00

For Family Members, one person needs to be an Ordinary Member, and then each additional family person then becomes a family member.



**Amateur Radio Emergency
Communication.
Volunteers in radio communications.
Using our resources to help the
community.**



INFORMATION

The Auckland VHF Group has an AREC Group that works closely with Auckland Council Emergency Management. They provide advice, resources and manpower to assist in times of need.

The AREC section is headed by Group Leader Matthew King ZL1YOT.

From time to time the VHF Group has training sessions and exercises. Members also assist with sports events, parades and other community activities. For further information about AREC please see the NZART web site: <http://www.nzart.org.nz/arec/>

JOIN BRANCH 66 AREC

All members of the Auckland VHF Group are encouraged to join the AREC section. Your contribution, large or small is appreciated by all involved.

For further information about joining Branch 66 AREC contact the Group Leader:

Matthew King ZL1YOT

022-6493310

mattking@gmail.com

The Deputy Leader position is currently vacant



AUCKLAND VHF GROUP (INC)

SUPPORT THE EFFORTS OF THE VHF GROUP THROUGH YOUR
SUBSCRIPTION

SUBSCRIPTIONS FOR 2022-2023

THE SUBS GO TOWARDS;

- Maintenance and on-going improvements to beacons, repeaters and linking systems for the national system, including the Klondyke repeater site.
- Providing on-time and free access to spectrum magazine as soon as it is available.
- Providing facilities for good speakers and lecturers at our general meetings.
- Discounted access to our trading table goodies.
- Access to test equipment and technical help when needed.

FULL MEMBERSHIP **\$65.00**

ASSOCIATE MEMBERSHIP **\$55.00**

FAMILY MEMBERSHIP ADDITIONAL **\$25:00**

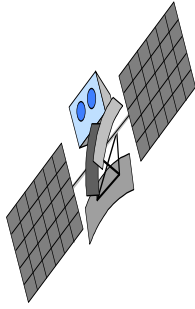
SEE ATTACHED MEMBERSHIP RENEWAL FORM (next page)

REMEMBER TO KEEP US INFORMED OF YOUR

EMAIL ADDRESS!

OTHERWISE WE CANNOT SEND YOU SPECTRUM!





AUCKLAND VHF GROUP INC.

P O Box 10138, Dominion Rd, Auckland 1446,
 30 Hazel Avenue, Mount Roskill, Auckland,
 Email: treasurer@aucklandvhf.org
 Web: <http://www.aucklandvhf.org>
 NEW ZEALAND



				Date Form Completed			
Mr/Mrs/Miss/Ms		Forename			Surname		
	Address1				Phone: (home)		
	Address2			NZ Post Code	Phone: (work)		
	Town/City				Phone (Mobile)		
	Email				Phone (Cell)		
Occupation:				Callsign:			
NZART Member	Yes / No		Branch assigned				
AREC Member	Yes / No		Branch assigned				
Family Member 1	(Name)		(Call)	(Email)		(Mobile #)	
Family Member 2	(Name)		(Call)	(Email)		(Mobile #)	
Family Member 3	(Name)		(Call)	(Email)		(Mobile #)	
New/Renewal/Change	Membership Category				To pay		
	Ordinary (Full)				\$60.00		\$
	Associate				\$55.00		\$
Family (per member after 1 full member registered at same address)				\$25.00		\$	
Donations	Klondyke Refurbishment						\$
	Repeater Maintenance						\$
	Data/D-Star						\$
	Beacon/Repeater/Links Licences						\$
	General Club Donation / Other						\$
				Total		\$	
Payment (Mark One →)				Cash <input type="checkbox"/>		Internet deposit <input type="checkbox"/>	
If require Invoice / Receipt <i>Please Advise Treasurer</i>				Other: <input type="checkbox"/>			
Internet	Account ASB 12-3011-0830580-00 . Account Name: Auckland VHF Group Inc. Include your Name/Callsign for track. Note: this form needs to be sent to us to update our records. Email to: treasurer@aucklandvhf.org . (Especially if Contact information has changed)						
Post	The Treasurer, Auckland VHF Group Inc. PO Box 10138, Dominion Road, Auckland 1446.						
In Person	Bring this form and payment to the next club meeting, 2 nd Monday of the month or to the Committee meeting the 4 th Monday of the month.						
Privacy	Unsubscribe from Email Notifications <input type="checkbox"/>			Do Not disclose contact Information <input type="checkbox"/>			
	Unsubscribe from Google Groups <input type="checkbox"/>						

Club use only: <input type="checkbox"/>	Approved: <input type="checkbox"/>	Not Approved: <input type="checkbox"/>
Sponsored by*		Sponsor's Callsign*
*New members only.		Date:

The information requested is for membership records required to be maintained under the Incorporated Societies Act and having due regard to the provisions of the Privacy Act

The Auckland VHF Group Inc Branch 66 NZART

gratefully acknowledges the sponsorship of Branch 66 Beacons, Repeaters and Fixed Links license fees and the Group's repeater operations by the following radio amateurs and NZART Branches for 2022-2023

53.725	Repeater	Klondyke Road	Gwynne Rowe	ZL1AAR	\$50.00
144.253	Beacon	Nihotupu (Testing Clubrooms)	Terry Corin	ZL1BPA	\$50.00
145.625	Data Rptr	Klondyke Road	Terry Corin	ZL1BPA	\$50.00
145.650	D-Star Rptr	Klondyke Road	Terry Corin	ZL1BPA	\$50.00
146.625	Repeater	Klondyke Road	David Wilkins	ZL1MR	\$50.00
146.700	Repeater	Ruaotuwheua	Terry Corin	ZL1BPA	\$50.00
146.900	Repeater	Mt Puketutu Radio	David Wilkins	ZL1MR	\$50.00
432.253	Beacon	Nihotupu (Testing Clubrooms)	Terry Corin	ZL1BPA	\$50.00
438.175	D-Star Repeater	Klondyke Road	Terry Corin	ZL1BPA	\$50.00
438.500	Repeater	North Head	Franklin Branch	ZL1SA	\$50.00
439.850	Link TX to Kaimai	Klondyke Road	George Marr	ZL1TUJ	\$50.00
439.875	Ak Nat System Rptr	Klondyke Road	Soren Low	ZL1SKL	\$50.00
439.900	Link TX to Egmont	Klondyke Road	Franklin Branch	ZL1SA	\$50.00
439.950	Link TX to Brenderwyn	Klondyke Road	Terry Corin	ZL1BPA	\$50.00
1291.900	Repeater	217 Glenfield Rd	Franklin Branch	ZL1SA	\$50.00
439.700	DMR Repeater (Waitakere's)	Quinns Rd	Franklin Branch	ZL1SA	\$50.00
					\$800.00

Klondyke Tower Donations towards Maintenance

Name	Donation
Donations 2018 - 2021	\$9734.00

Donations 2022 –2023

George Marr	ZL1TUJ	\$100.00
Dave Dingley	ZL1TIA	\$205.00
Estate Ian Sexton	ZL1PZ	\$950.00
Estate Tony Babish	ZL1ATE	\$500.00
John Sexton	ZL1AQS	\$750.00

2022 –23 Year to Date	\$2505.00
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Total	\$12,329.00
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Percent of Goal	12.03 %
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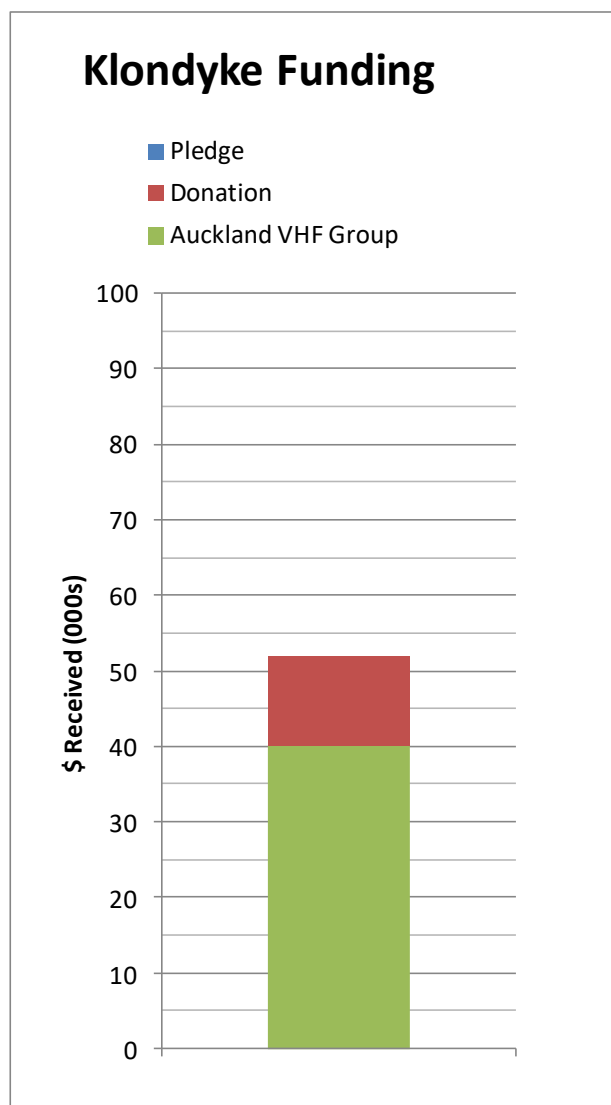
Target 100,000

Tower	63,245.00	Other	27268.25
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GST	9,486.75
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Total	72,731.75	Total	27,268.25
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Auckland VHF Group	40,000.00	40.00
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TRADING TABLE

Currently our Trading Table is only open on meeting nights.

NEW – Printed Circuit Board. Thanks to a generous donation from N.Z.'s last circuit board production company (now closed down), we have a large quantity of single sided fibreglass printed circuit board material in sizes ranging from 1200 x 600 down to smaller pieces. There's some double sided board as well. Come along to our May meeting if you want some – prices can be negotiated!

NEW – RG58C/U 50 Ohm Coaxial Cable. Thanks to a bulk purchase we are able to offer this good quality coax at a competitive price. The cable has tinned centre conductor and screen braid making it resistant to long term corrosion. The price is \$2.00 per metre with a discount for purchases of 20m or more. See Vaughan ZL1VH on meeting nights to get this quality coax cable.

The Trading Table is now on line. Navigate your way to our new look web site at <https://aucklandvhf.org/> and click on TRADING TABLE (the most right hand tab).

Wait a few seconds and the on-line version of the Trading Table will pop up. From here you can browse the various sections, dig deeper to look at what's available and even place your order online.

If you prefer to just look at the Trading Table List, just hover your mouse pointer over the TRADING TABLE and a pull down list will appear. From this you can access the full trading Table list and download it in .PDF form.

We also have heaps of parts from dismantled commercial analog TV gear – transmitters, filters, circulators, patch panels, power supplies. Too much to list individually, so come along to the clubrooms and have a look.

