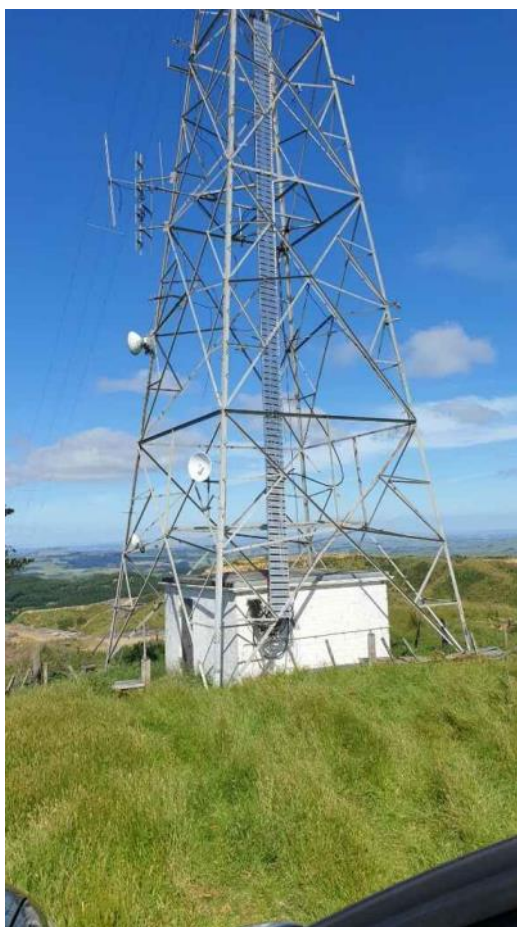


**The Official Newsletter of the  
Auckland VHF Group Inc.**

**Spectrum**



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**Upcoming Events — Page 4**



# 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	Matthew King	ZL1YOT	022 649 3310	president@aucklandvhf.org
Vice President	Currently Vacant			vicepresident@aucklandvhf.org
Secretary	Alastair Anderson	ZL1NEO		secretary@aucklandvhf.org
Treasurer	George Raffles	ZL1TUX	021 735 361	treasurer@aucklandvhf.org
Committee	Darryl Grange	ZL1TCI	021 123 7733	darryl@aucklandvhf.org
	Jim Logan	ZL1DI	021 331 747	
	Brian Wilson	ZL1UXB	021 1639 532	
	Dave Dingley	ZL1TIA	021 782 159	
AREC Group Leader	Matthew King	ZL1YOT	022 649 3310	arec@aucklandvhf.org
Deputy Group Leader	Currently Vacant			
ZL1BQ Trustee	Vaughan Henderson	ZL1VH	021 844 804	zl1bqtrustee@aucklandvhf.org
Head Repeater Trustee	Vaughan Henderson	ZL1VH	021 844 804	headtrustee@aucklandvhf.org
Klondyke Manager	Vaughan Henderson	ZL1VH	021 844 804	zl1vh1@gmail.com
670 Manager	Vaughan Henderson	ZL1VH	021 844 804	zl1vh1@gmail.com
690 Manager	Dennis Seymour	ZL1UET	09 278 0381	dennis.seymour@broadtech.co.nz
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 :			<a href="http://zl1vhd.dstar.org.nz">http://zl1vhd.dstar.org.nz</a>	
Webmaster	Terry Corin	ZL1BPA		webmaster@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 12 February 2024**

**At the Clubrooms, 30 Hazel Avenue at 7:30 pm.**

**Speaker: Matthew King. ZL1YOT**

**Subject: Antenna Modelling and Construction  
With 4NEC2 Software**

This is free software that works on antennas from HF to UHF. Firstly we enter the 3d coordinates for each element, and define the feedpoint. Then we have it analyse it's radiation efficiency and SWR. Last thing is to set it to modify whichever elements we designate, to improve it's efficiency. This can take a while with a complex antenna. Time enough for a cup of tea!

His most successful project is two circular elements, each one wavelength circumference. So 100 Ohms each. Then connect them to a common feedpoint so it's a figure eight shape, giving 50 Ohms impedance.

There is some reactance to this, which is totally negated by placing a slightly larger reflector behind it, and a slightly smaller director in front.

The result is around 13dB gain at an SWR of 1:1.2.

That's pretty good for three pieces of metal strap.

## **Upcoming Events:**

10th & 11th February, DX Weekend Contest, All bands 6 m and up.

19th February, NZ Vintage Radio Society Meeting,

22nd February, Auckland Area AREC Meeting, at North Shore Branch.

22nd / 29th February, LPFM Meeting at the VHF Group Clubrooms TBC

## **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.

Mark Howie

ZL1UMK

Spectrum Editor

## ***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 2023—2024*

1291.9	Repeater	217 Glenfield Rd	Franklin Branch	ZL1SA	\$50.00
439.900	Link to Egmont	Klondyke Rd	Franklin Branch	ZL1SA	\$50.00
439.700	DMR Repeater	Quinns Rd	Franklin Branch	ZL1SA	\$50.00
438.500	Repeater	North Head	Franklin Branch	ZL1SA	\$50.00
146.70	Repeater	Ruaotuwheua	Terry Corin	ZL1BPA	\$50.00
438.175	D-Star Repeater	Klondyke Rd	Terry Corin	ZL1BPA	\$50.00
432.253	Beacon	Nihotapu (Testing Clubrooms)	Terry Corin	ZL1BPA	\$50.00
145.650	D-Star Repeater	Klondyke Rd	Terry Corin	ZL1BPA	\$50.00
144.253	Beacon	Nihotapu (Testing)	Terry Corin	ZL1BPA	\$50.00
145.625	Data Repeater	Klondyke Rd	Terry Corin	ZL1BPA	\$50.00
439.950	Link to Brynderwyn	Klondyke Rd	Terry Corin	ZL1BPA	\$50.00
439.875	Link to National	Klondyke Rd	Soren Low	ZL1SKL	\$50.00
53.725	Repeater	Klondyke Rd	Gwynne Rowe	ZL1AAR	\$50.00
439.850	Link to Kaimai	Klondyke Rd	George Marr	ZL1TUJ	\$50.00
146.900	Repeater	Mt Puketapu	David Wilkins	ZL1MR	\$50.00
146.625	Repeater	Klondyke Rd	David Wilkins	ZL1MR	\$50.00
					<b>\$800.00</b>

## **Auckland VHF Group Subscriptions are due for 2023-2024 year by the end of June 2023.**

Subscriptions are now be accepted for the 2023-2024 year, 1 July 2023 to 30 June 2024.

This coincides with the financial year for the group, which ends 30 June 2023.

Subscription update notice will be sent out in early June to all members who have not renewed by that time.

### **Note on Subscriptions:**

- a. There is no increase in subscription for the 2023-2024 subscription year.
- b. All subscriptions terminate on 30 June.
- c. Your subscription will run for two-months after end of year to 30 August 2023 and then drop to the in-active membership list. (as per the constitution)

<b>Subscription Type</b>	<b>Subscription Price</b>
Ordinary Members (Full)	\$60.00
Associate Members	\$55.00
Family Members	\$25.00

- For Family Members, one person needs to be an Ordinary Member, and then each additional person then becomes a family member.
- Subscription prices are determined at the AGM preceding the year being implemented (7 months ahead)



## 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 **\$60.00**

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](mailto: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		\$
		<b>Total</b>	\$
If require Invoice / Receipt		Payment (Mark One →)	Cash <input type="checkbox"/> Internet deposit <input type="checkbox"/> Other: <input type="checkbox"/> Credit Card <input type="checkbox"/>
<i>Please Advise Treasurer</i>			
Internet	Account <b>ASB 12-3011-0830580-00</b> . Account Name: <b>Auckland VHF Group Inc.</b> Include your <b>Name/Callsign</b> for track. Note: this form needs to be sent to us to update our records. Email to: <a href="mailto:treasurer@aucklandvhf.org">treasurer@aucklandvhf.org</a> . <b>(Especially if Contact information has changed)</b>		
Credit Card	Membership Link: <a href="https://aucklandvhf.org/product-category/membership-and-donations/membership/">https://aucklandvhf.org/product-category/membership-and-donations/membership/</a>		
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 <sup>nd</sup> Monday of the month or to the Committee meeting the 4 <sup>th</sup> Monday of the month.		
Privacy	Unsubscribe from Email Notifications <input type="checkbox"/> Unsubscribe from Google Groups <input type="checkbox"/>		Do Not disclose contact Information <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



## Klondyke Tower Donations towards Maintenance

**Donations 2018 - 2022                    \$7840.00**

**Donations 2022 –2023**

**George Marr                    ZL1TUJ                    \$100.00**

**Estate Ian Sexton                ZL1PZ                    \$950.00**

**Estate Tony Babish            ZL1ATE                    \$500.00**

**John Sexton                    ZL1AQS                    \$750.00**

**Klondike Raffle                    \$270.00**

**George Raffles                    ZL1TUX                    \$199.16**

**Marty Seay                    ZL3CK                    \$100.00**

**Russell Richardson            ZL1RWR                    \$100.00**

**Ian Ashley                    ZL1AOX                    \$40.00**

**Donation                    \$10.00**

**2022 –23    Year to Date                    \$3019.16**

**Total                    \$10,859.16**

**Percent of Goal                    10.86 %**

**Other Donations**

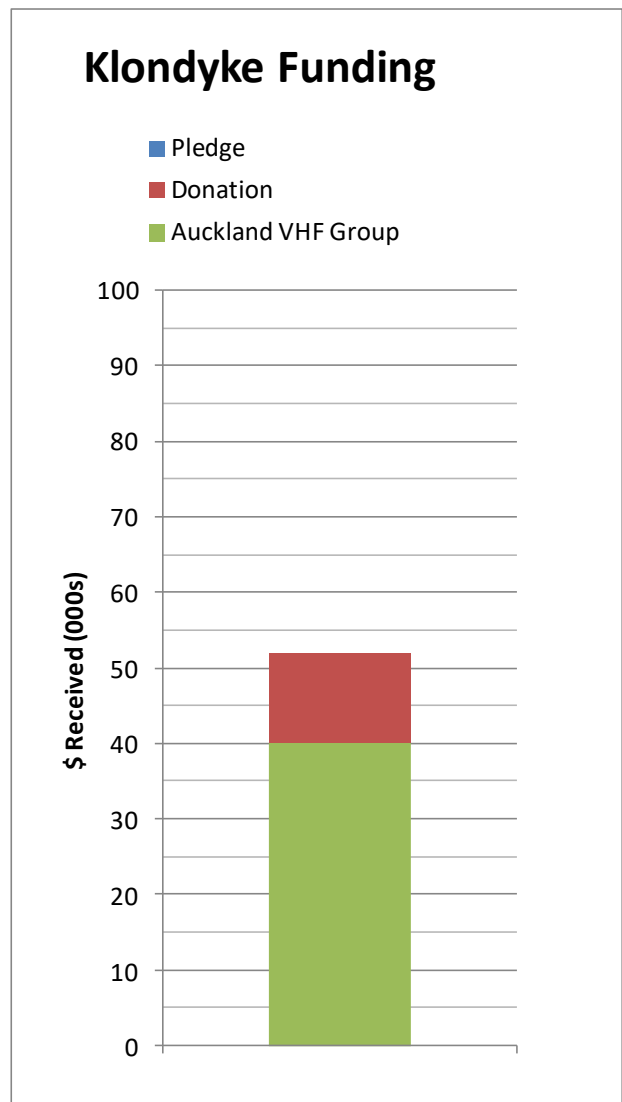
**Target                    100,000**

Tower    63,245.00                    Other                    27,268.25

GST                    9,486.75

Total    72,731.75                    Total                    27,268.25

Auckland VHF Group                    40,000.00                    40.00





**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](mailto:mattking@gmail.com)

The Deputy Leader position is currently vacant

## 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.

