

**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	Matthew King	ZL1YOT	022 649 3310	president@aucklandvhf.org
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Secretary	Alastair Anderson	ZL1NEO		secretary@aucklandvhf.org
Treasurer	George Raffles	ZL1TUX	021 735 361	treasurer@aucklandvhf.org
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	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
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ZL1VHD Dstar gateway registration URL :			http://zl1vhd.dstar.org.nz	
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 11 March 2024

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

Speaker: Simon Bridger ZL1THH

Subject: More about 4NEC2

Specifically:

Using the copy/move/rotate cards to simplify antennas with symmetry

Using the Helix cards for coils

Using a frequency file to sweep multi-band antennas

Installing multiprocessing libraries to speed up long sweeps

Upcoming Events:

16 & 17th March, AREC Waikato Roadshow

19th March, NZ Vintage Radio Society Meeting

25th March, Auckland VHF Group Committee Meeting

25th March Close off Date for April Spectrum

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

First Amateur Radio Station on the Moon, is Now Transmitting

The Japan Aerospace Exploration Agency (JAXA) successfully landed their Smart Lander for Investigating Moon (SLIM) on January 19, 2024. Just before touchdown, SLIM released two small lunar surface probes, LEV-1 and LEV-2.

LEV-2 collects data while moving on the lunar surface, and LEV-1 receives the data.

The JAXA Ham Radio Club (JHRC), JQ1ZVI, secured amateur radio license JS1YMG for LEV-1, which has been transmitting Morse code on 437.41 MHz since January 19. The probe uses a 1 W UHF antenna with circular polarization and is transmitting "matters related to amateur business."

Radio amateurs have been busy analysing JS1YMG's signal, with Daniel Estévez's, EA4GPZ, blog introducing the method and extraction results for demodulating Morse code from the signal, as well as extracting the code string. It's unclear how long signals will be heard. JAXA has said that SLIM was not designed to survive a lunar night, which lasts about 14 days, and is due to return in a few days.

SLIM was launched on September 6, 2023, and landed on January 19, 2024, with the mission of analysing the composition of rocks to aid research about the origin of the moon. SLIM's landing made Japan the fifth country to achieve a soft touchdown on the moon. The landing was achieved with exceptional precision -- within 180 feet of its targeted touchdown location.

Amateur 9cm Band Lost in new Amateur GURL

Radio Spectrum Management have published a new Amateur GURL dated 15 December 2023. In it, the new amateur allocation at 5 MHz is shown. What has come as a complete surprise is the removal of the amateur 9cm band (3300 to 3410 MHz). In the notes at the end of the new GURL, we are advised that this spectrum is now covered by a General User Spectrum Licence. More information on how this change "just happened" is being sought from NZART.

Terry Fortune ZL1TCF Silent Key

The Auckland VHF Group records with regret the passing of Terrence La Trobe Fortune ZL1TCF (19 March 1937 – 13 February 2024). Terry was a very active member of the VHF Group in the 1970's and 1980's. A fuller report on Terry's life and activities will be in next month's Spectrum.

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	Available		
439.900	Link to Egmont	Klondyke Rd	Available		
439.700	DMR Repeater	Quinns Rd	Available		
438.500	Repeater	North Head	Available	Off Air	
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 Clubrooms)	Terry Corin	ZL1BPA	\$50.00
145.625	Data Repeater	Klondyke Rd	Available	Off Air	
439.950	Link to Brynderwyn	Klondyke Rd	Terry Corin	ZL1BPA	\$50.00
439.875	Link to National System	Klondyke Rd	Soren Low	ZL1SKL	\$50.00
53.725	Repeater	Klondyke Rd	Gwynne Rowe	ZL1AAR	\$50.00
439.850	Link to Kaimai	Klondyke Rd	Available		
146.900	Repeater	Mt Puketapu	David Wilkins	ZL1MR	\$50.00
146.625	Repeater	Klondyke Rd	David Wilkins	ZL1MR	\$50.00
					\$500.00

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)

Subscription Type	Subscription Price
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
 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	\$
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 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)		
Credit Card	Membership Link: https://aucklandvhf.org/product-category/membership-and-donations/membership/		
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"/> 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
\ Refurbishment**

Donations 2018 - 2023 \$10,859.16

Donations 2023 –2024

Cary Rawson \$50.00

Rob Stokes \$40.00

2023 –24 Year to Date \$90.00

Total \$10,949.16

Percent of Goal 10.95 %

Other Donations 2023-2024

Harry, ZL1BK \$100.00

NZ Vintage Radio Society \$480.00

Estate of Kenneth Boyce, ZL1TD \$5000.00

NZ Vintage Radio Society \$550.00

NZ Electronics Institute \$50.00

Brian Wilson, ZL1UXB \$1.00

Total \$6,181.00

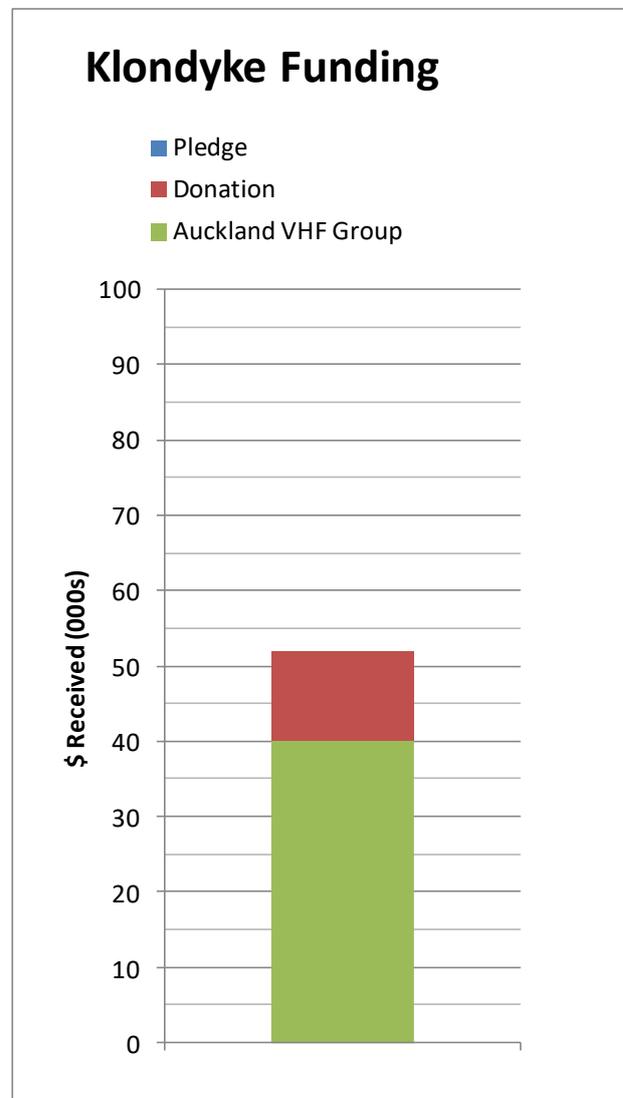
Target 100,000

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

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.

