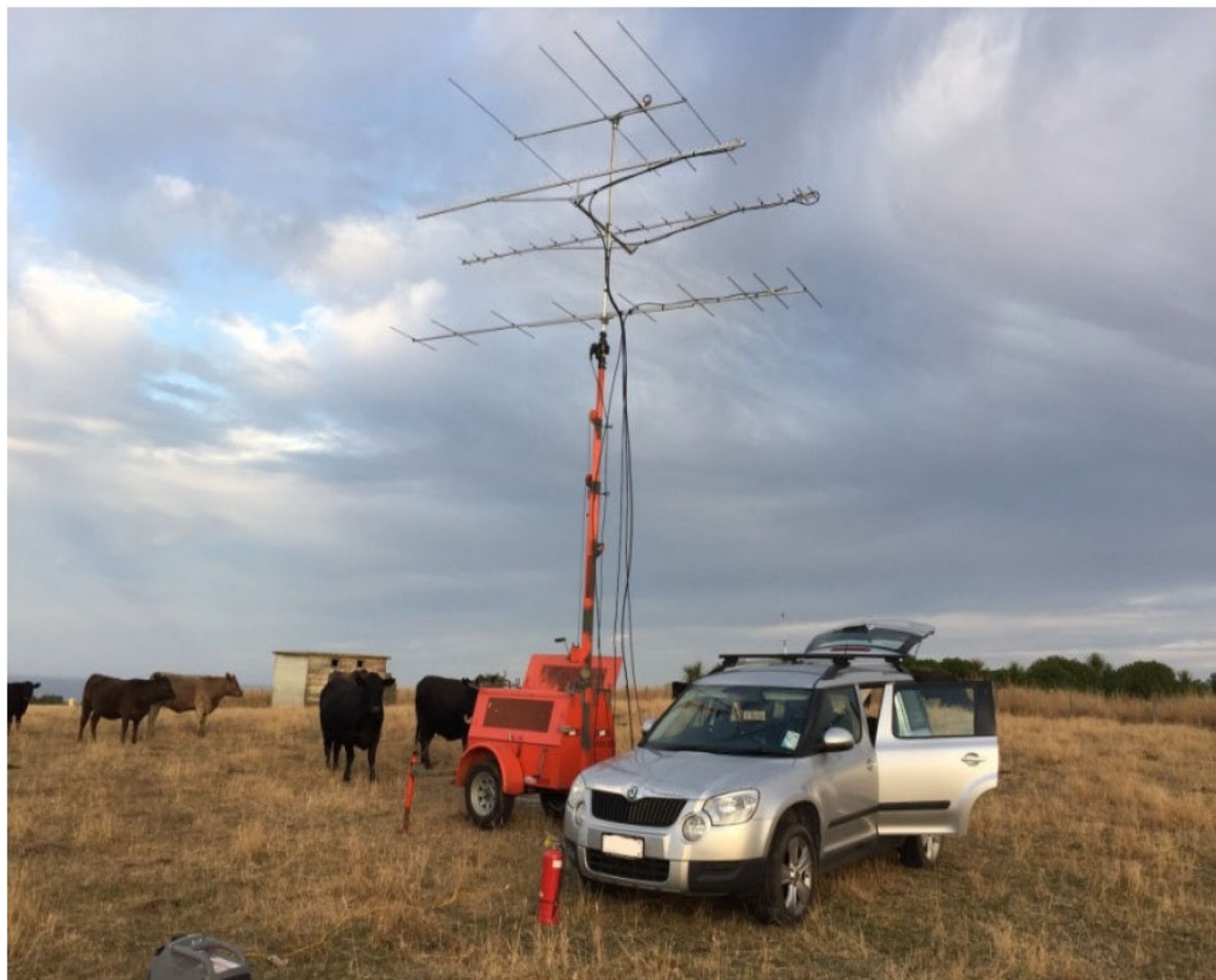


The Official Newsletter of the



VHF/UHF field Day In Style! Roger ZL3RC's site with generator and telescopic mast.

The General Meeting Notice — page 3
President's Report — page 4
The future development of AREC — page 6
DX Weekend Contest Results —page 9



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
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Vice President	Brendon Reid	ZL1XXX	021 970 785	vicepresident@aucklandvhf.org
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AREC Group Leader	Matthew King	ZL1YOT	022 649 3310	mattking@gmail.com
Deputy Group Leader	Currently Vacant			
ZL1BQ Trustee	Matthew King	ZL1YOT	022 649 3310	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
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ZL1VHD Dstar gateway administrator:	Laurie	ZL1ICU	634 5130 0274 817463	perma@xtra.co.nz
ZL1VHD Dstar gateway registration URL :	http://zl1vhd.dstar.org.nz			

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 Peter ZL1UKG
spectrum@aucklandvhf.org

Auckland VHF Group (Inc) Branch 66

General Meeting Notice

Monday 12th April 2021 7.30pm

At the Hazel Avenue Clubrooms
(Located on the left at the end of Hazel Avenue)

Topic: Vector Network Analysers

The Nano VNA: ZL1YOT and ZL1GSG will talk on VNA's and their uses with some practical demonstrations.

There will be time after Matthew's and Greg's presentation for questions and the meeting will conclude with our usual supper and time to chat over a cup of tea or coffee.

If you are unable to attend in person, we will have the meeting live via Microsoft Teams. Goto the Group's website at <https://aucklandvhf.org/> and navigate your way to "Meetings and Events" where you will find the link to join us on Teams.

Coming Events:

- * 10 — 11 April Low Band Contest: 10th and 11th April 2021. All bands 6 m up to and including 70 cm. Operating 1 hour periods are Saturday 5pm (1700) to 11pm (2300) and Sunday 7am (0700) to 1pm (1300). For the full set of rules, etc., please go to:
<https://www.nzart.org.nz/activities/contests/vhf-and-above-contests>
- 15 May Radio Electronics Group Market Day from 8:30 am for Vendors and 10 am for Buyers. 211 Peacocks Road, Glenfield, Hamilton.
Saturday 15th May Vendors: 8-30am Doors open 10am
Tables \$20 Public— \$2 Lucky Ticket Entry
Trade display — Refreshments — Door prizes
Plenty of parking Easy access Motor Home Parking

For Vendor registration and enquires Contact Vern ZL1TKG email: ZL1REGSALE@gmail.com
Or phone John ZL1PO 021 204 5990

Auckland VHF Group Presidents Report April 2021

We are putting Recruiting up near the top of our committee agenda along with Klondyke funding. It is imperative that we attract some younger members before the club goes the way of many other organisations, like a lot of bowling clubs.

To this end I'm thinking to set up a ROAD SHOW that is part radio entertainment, part radio basics, and part promoting radio technology as a career. Here are some things we could include:

VIDEO. There was a video doing the rounds about thirty years ago illustrating signal strengths of antennae at a small wavelength. About 2GHz. The transmitting dipole was about five inches long, sitting on one end of a long bench. At the other was a selection of receiving aerials connected to a unit that emitted an audio signal that rose in pitch according to the strength of the received signal. It was fascinating, swapping from a quarter wave to a dipole to a Yagi to a quad.

Another attraction would be a morse key being read by a computer. Get kids to try their hand by speaking the sound to them and getting them to key the letters in. And decoding it onto a screen. Dit dit dit dit, dit dit!

A plywood cutaway of a capacitor, like a bit of plumbing, can show a block moving back and forth in a chamber when AC is applied, but stopping if DC is applied. Visually displaying an inductor is a bit trickier. Axles, string, and weights.

Connecting a big subwoofer speaker to the AC mains (with a big resistor) might also impress young minds. 500W at 50 Hz!

Find and play audio recordings of real disasters, both from here and overseas, where AREC has assisted in disaster relief operations.

When I did my licence in Whakatane (shortly before the earthquake) the first thing the coach did was to wind some copper wire around a cardboard carton and connect it to a transistor and a nine volt battery, creating an HF transmitter. He went up the back of the room with a little shortwave transistor radio and found the frequency. Then he got someone to take the battery off and on, proving it was working. Fascinating. He demonstrated that building a rudimentary transmitter can be this simple. Precision and modulation required a little more expertise, diligence and finesse, he said! So that's another option for a roadshow which could be taken around schools, weekend markets, and also filmed for YouTube.

Any ideas along a similar vein would be welcomed, and anyone wanting to be involved please give me a yell. Apparently CW is making a comeback with kids, as a curiosity.



AREC—

I have taken on the role of Group Leader (previously called Section Leader). Here are my initial thoughts, which I will discuss with Andy ZL1COP following his recent talk with us.

MISSION:

To set up and operate emergency communications systems when the existing systems fail or are overloaded.

To provide skilled operators to work the existing systems in an emergency.

ASSESSMENT of our current state:

A few of our members are interested in AREC, some with previous training which needs refreshing. We have five or six hand held radios in storage. TYT MD-380. They are UHF voice only, working through the AREC repeater at Quinns Rd, Waitakere. I'd like to issue them to our AREC members. Probably appropriate to stash them in our cars, so they are handy if required. They can't be used for anything except AREC. Charge them up once a month, and use them for the (weekly) radio checks when convenient.

ACTION

- Recruit more members, and train them up on existing message handling protocols.
- Discuss the need for data capability in and after a disaster, for passing large messages like people lists (unaccounted for, accounted for, missing or homeless), provisions required, operability status of local utilities, action plans. The need for separate Control and Admin nets (a la military). Then plan the implementation of these.
- Ascertain requirements for setting up links on upper bands and HF, and practicality of using existing gear our members have at home or mobile capable.
- Find out from CD and EMG if there are any other requirements we can meet.
- Find out from National Training Manager Steve Davis ZL2UCX if there is a training handout or action plan to work to.
- Offer to provide coms to sports events as a way of exercising our capabilities. This activity may have been rendered unnecessary by cellphone proliferation, other than in remote areas.

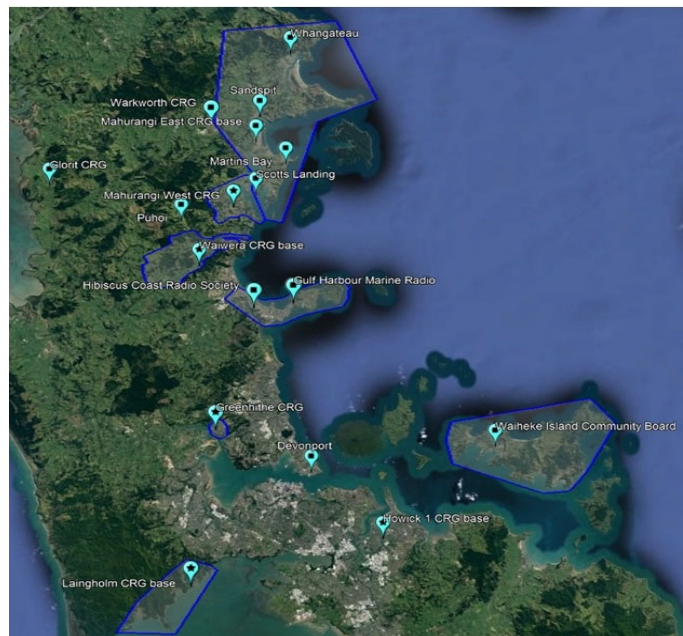
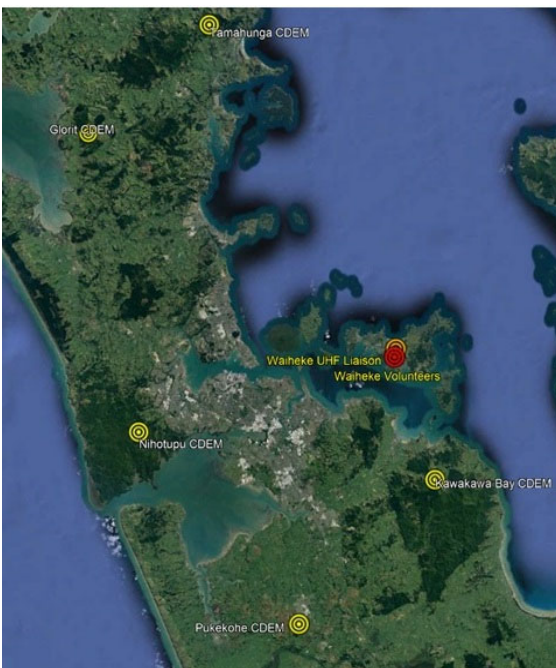
Having brainstormed all this, I have just received the national monthly AREC newsletter from Soren Low ZL1SKL, which renders my ramblings redundant! So I'll stop here (I have just invented a wheel).

AREC Interaction with Auckland Council

How the communication Network operates

Auckland Emergency Management (AEM) has a radio hub at 400 east Coast Road on the North Shore. This is also used by the North Shore Radio Club as its Clubrooms. The Club is responsible for checking that the Network is operating correctly every week on a Wednesday morning.

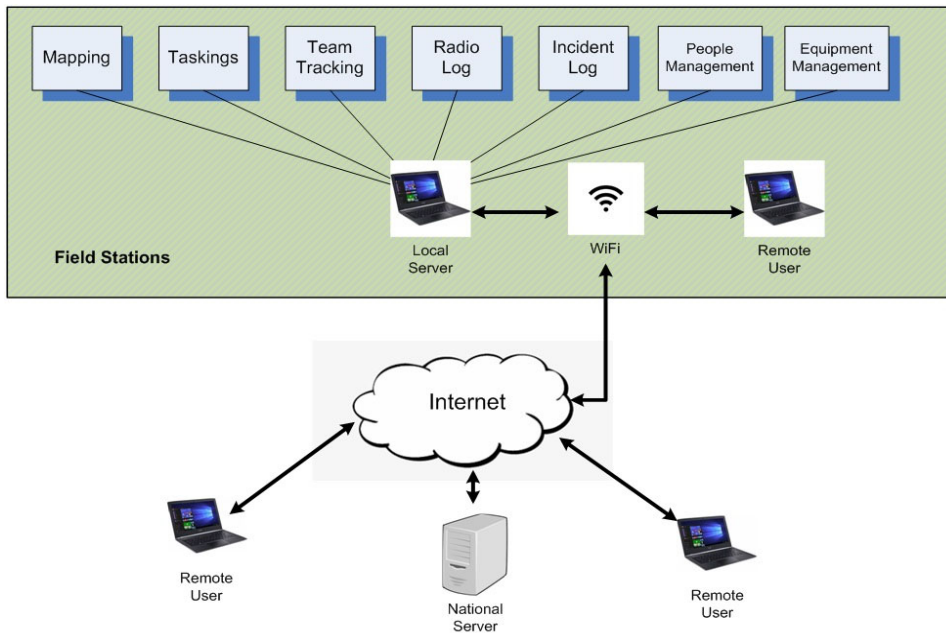
There are 5 Repeaters on high points providing links to 16 outstations which have staff who respond to the operators who are contacted by the North Shore members. The outstations must have 2 basic channels in their radio rooms which must be operating or an analysis of the problem will take place. Some outstations may not have their own frequency allocations but can fall back on using ESB frequencies. ESB uses a 3 MHz separation of RX/TX, most on VHF. Some services use PRS equipment (UHF). Outlying groups may not be able to make contact if they can't see Repeaters. There may not be local Repeaters for the PRS service.



The ESB Repeater Network

Rx ^α	Tx ^α	CTCSS Hz ^α	DESIGNATION ^α	USAGE ^α
Repeaters^α				
141.525 ^α	138.525 ^α	218.1 ^α	ESB-42 ^α	Region-Primary-Command & Control ^α
142.6875 ^α	139.6875 ^α	218.1 ^α	ESB-135 ^α	Region-Secondary-Command & Control ^α
142.65 ^α	139.65 ^α	^α	ESB-132 ^α	Portable-Incident-repeater ^α
143.05 ^α	140.05 ^α	^α	ESB-164 ^α	Liaison-/Inter-Agency-repeater ^α
142.625 ^α	139.625 ^α	218.1 ^α	ESB-130 ^α	Kawakawa-Bay ^α
142.6625 ^α	139.6625 ^α	250.3 ^α	ESB-133 ^α	Glorit Peak, Mount-Auckland ^α
141.0375 ^α	138.0375 ^α	250.3 ^α	ESB-03 ^α	Mount-Tamahunga ^α
142.8375 ^α	139.8375 ^α	173.8 ^α	ESB-147 ^α	Pukekohe Hill ^α
141.5125 ^α	138.5125 ^α	218.1 ^α	ESB-41 ^α	^α
141.5375 ^α	138.5375 ^α	250.3 ^α	ESB-43 ^α	^α
165.0875 ^α	169.6875 ^α	162.2 ^α	EE 231 ^α	Cemeteries-BAU/CDEM-Lifelines ^α
164.4625 ^α	169.0625 ^α	118.8 ^α	EE 181 ^α	Waiheke-Island-Community-VHF ^α
142.525 ^α	139.525 ^α	151.4 ^α	ESB-122 ^α	Great-Barrier-Liaison-/Inter-Agency ^α
455.60625 ^α	450.56875 ^α	141.3 ^α	CN24 ^α	Waiheke-Island-Inter-Agency-UHF ^α

The Channels involved



The roles assigned to the different parts of the network

Some education is required is required for PRS people to make use of all the available frequencies. 6 North Shore members have been trained in how the Network works. More are needed! The Police staff have been trained in the 4 mains roles of Information, People management, Catering and Logistics.

Out searching in the field SARTrack software is used to report on the locations of Teams. It can also be used to assign tasks to the Teams. It is also set up to report their field positions every 215 minutes. In some other parts of the country searchers my use HF equipment. It gets around a lack of repeaters.

Channel	Frequency	Label	Function
1	140.5875	ESX07	SAR Simplex 1
2	143.6625	ESX53	SAR Simplex 2
3	141.7125	ESB57	SAR Portable Repeater 1
4	141.7250	ESB58	SAR Portable Repeater 2
5	141.7375	ESB59	SAR Portable Repeater 3
6	141.7500	ESB60	SAR Portable Repeater 4
7	161.1500	MS08	SAR Fixed Repeater 1
8	161.3750	MS17	SAR Fixed Repeater 2
9	163.7250	EE122	SAR Fixed Repeater 3
10	164.6500	EE196	SAR Fixed Repeater 4
11	140.9875	ESX39	Liaison Simplex
12	143.0500	ESB164	Liaison Repeater
13	158.7250	MSX27	Ground-to-Air and RNZAF
14	143.0375	ESB163	DOC Portable Repeater
15	156.3000	MM06	Marine VHF Channel 06 - Ship to Ship
16	156.8000	MM16	Marine VHF Channel 16 - Distress, safety and calling

Plus:

- DoC ESB
- CDEM ESB
- Regional Parks ESB
- Rural Fire ESB
- Marine VHF
- Great Barrier Island Net ESB

The frequencies used by LandSAR in the ESB allocations

The Police have Transit type vans set up with generators/alternators which provide charging of radio gear when providing radios to the Teams. The Teams should be fit and experienced. You may not be transported out by helicopter The focus of AREC is not on searching. It is Comms support only.

The structure of CIMS Functions with colour coding explain explanations – 3239, 3240

A display was set up in the presentation room to show what the equipment looks like:

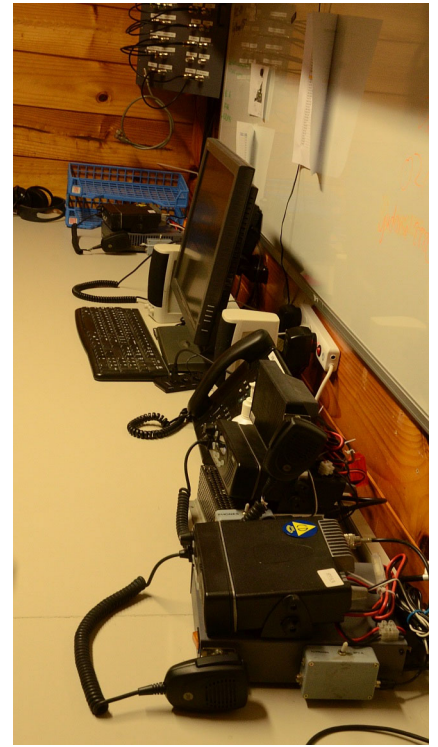
Portable multi-band Base Station



Portable ESB Band Repeater



Radio operating positions at 400 East Coast Road



A portable PRS repeater



The HF Radio installation at 400 East Coast Road

There were also examples of ESB equipment for an Search Control location, an HF radio, an AM radio for aircraft but helicopters also had ESB equipment

This summary of the presentation has been written from notes made by the editor and a copy of the Powerpoint supplied by Andy Brill.

Results of the 2021 DX Weekend Contest – 13/14 February

VHF-UHF-SHF-EHF Contests, as administered by the Auckland VHF Group Inc; on behalf of all VHF groups, including all New Zealand radio amateurs and supported by NZART.

Overall Winner	Station	Points
	ZL4AA	6590
	ZL1GSG	4991
	ZL1AA	4790
	ZL3RC	3348
	ZL1THH	2554
	ZL2VS	1996
	ZL3IX	1001
	ZL1PKL	339
	ZL1AOX	66

Band winner 6m (50 MHz)	Station	Points
	ZL4AA	281
	ZL1AA	130
	ZL1THH	72
	ZL3RC	53
	ZL1GSG	19
	ZL2VS	11
	ZL1AOX	5

Band winner 2m (144 MHz)	Station	Points
	ZL1GSG	2176
	ZL4AA	1763
	ZL3RC	572
	ZL2VS	508
	ZL1AA	506
	ZL1THH	308
	ZL1PKL	93
	ZL1AOX	15

Band winner 70cm (432 MHz)	Station	Points
	ZL1GSG	1019
	ZL4AA	1013
	ZL3RC	456
	ZL1AA	440
	ZL1THH	410
	ZL2VS	133
	ZL1PKL	114
	ZL1AOX	14

Contest results continued on Page 10

Band winner 23cm (925 MHz)	Station	Points
	ZL1AA	431
	ZL1THH	414

Band winner 23cm (1296 MHz)	Station	Points
	ZL4AA	3534
	ZL3RC	2267
	ZL1GSG	1259
	ZL3IX	1001
	ZL2VS	826
	ZL1AA	442
	ZL1PKL	132
	ZL1AOX	32

Band winner 12cm (2400MHz)	Station	Points
	ZL2VS	518
	ZL1GSG	518
	ZL1AA	245

Band winner 9cm (3400 MHz)	Station	Points
	ZL1AA	274

Band winner 6cm (5670 MHz)	Station	Points
	ZL1AA	1559
	ZL1THH	1350

Band winner 3cm (10368 MHz)	Station	Points
	ZL1AA	763

Greatest DX	Stations	Distance
6m	ZL3RC—ZL4AA	453 km
2m	ZL4AA— ZL1GSG	830 km
70cm	ZL3TKI—ZL1GSG	531 km
32cm	ZL1AA— ZL1THH	73 km
23cm	ZL3IX— ZL1GSG	530 km
12cm	ZL2VS—ZL1GSG	72 km
9cm	ZL1AVZ—ZL1AA	68 km
6cm	ZL1THH—ZL1AA	73 km
3cm	ZL1AA—ZL1AVZ	68 km

Contest results continued on Page 11

Active Stations (53 in total)

ZL1AA, ZL1AKW, ZL1AOX, ZL1AVZ, ZL1BQE, ZL1BRL, ZL1CLH, ZL1GKB, ZL1GSG, ZL1HI, ZL1IU,
ZL1PKL, ZL1PWR, ZL1TBG, ZL1THH, ZL1TX, ZL1UET, ZL1ULN
ZL2ALW, ZL2BN, ZL2CHAR, ZL2JBK, ZL2TC, ZL2TWS, ZL2UCX, ZL2VS, ZL2WHO, ZL2YET
ZL3AIC, ZL3FK, ZL3IX, ZL3JJ, ZL3LM, ZL3MH, ZL3NW, ZL3OC, ZL3OZ, ZL3RC, ZL3RIK, ZL3RJ, ZL3TKI
ZL4AA, ZL4BC, ZL4HK, ZL4JF, ZL4JH, ZL4KX, ZL4LV, ZL4OL, ZL4SA, ZL4TH, ZL4UC, ZL4VM

Check Logs: ZL1UET, ZL2YET, ZL3RIK

Operator Comments

Weather was much better than December and best band conditions in a long time. 23cm is becoming a very popular band.

Had great fun doing this. Was windy and got quite cold in the evening. Propagation was a bit flat and never really improved much. Highlights were working ZL2VS at great distance. Some microwave bands a bit of hard work. Pity we don't have more activity from the Waikato and Wellington.

The weekend was much better than weekend contests of late with some good colour in the Hepburn Map. This really started to work Sunday morning with some good contacts South but by midday it had started to drop off a bit. Disappointingly my micro wave 5.7 GHz and 10 GHz box had some strange PLL instability which rendered these bands unusable.

Still building up the portable station and this outing I had made some mods to the antenna system which really paid off as it was much quicker to rig.

I enjoyed the last contest @ZL1AA and pleased to work ZL2VS as the best DX with the 6 elements and 50w. The contest proved that the amp has some serious bias probs so it's back on the workbench! Apart from ZL2VS and 1 QSO with ZL2WHO and Greg there wasn't much else around in the way of DX to work.

Weather was good both days but was a cold night sleeping in the van. Was well worth the effort with lots of good contacts made.

Thanks to the Simons. Simon ZL1THH for encouraging us to do it in the first place, and Simon ZL1SWW for patience on the day and encouraging the 1296 contacts.

Thanks to all that participated.

Simon ZL1SWW Greg ZL1GSG



**DX Weekend Contest
February 13 and 14.**

Nicola ZL1PKL and Charles
ZL1RKO operating from
Waiheke Island.



Simon
ZL1SWW's
multi-band op-
eration from
the back of his
car.



Roger ZL3RC operat-
ing table in the back
seat.

Royden ZL2VS
microwave band
antennas



Scientists Warn RF May Disappear Completely by 2040

4/1/2021

A new study published in the science journal *Standing Waves* shows that RF signals are disappearing at an alarming rate. Some scientists are going so far as to say that if action is not taken immediately, the airwaves could be completely silent by 2040.

The study's chair, Dr. Bunsen Huneydo said, "We looked at daily activity on the HF bands from 3.5 to 29 MHz over the last 11 years. For a while the bands were showing healthy growth with plenty of activity, but in just the last five years signals have become much weaker and some have even disappeared completely. Worse hit has been the 10 meter band where we haven't observed a signal for over two years... the extent of the devastation is breathtaking."

But what is causing it? Scientists have a few theories but the main culprit seems to be that there are simply too many antennas absorbing a limited supply of RF. As this simple formula shows, RF is depleted at a rate inversely proportional to the square of the distance between any two stations.

Scientists warn that, as $\cos(1/x)$ increases, we risk reaching "the point of no return" where RF levels will never recover.

But what does this mean to the average ham? The short answer is we must all help conserve RF. Where hams used to just have one radio, it is now common to own three or even four radios, each with an RF absorbing antenna.

Of course, some of the worst contributors to the crisis are the so-called "Big Gun" stations. These use aluminum farming techniques that have gotten way out of control... covering acres of land with multiple towers reaching up to 100 feet and scooping up every signal that goes by.

The International Amateur Radio Union (IARU) and member societies like ARRL are calling for urgent action and plan to table a number of propositions at the next WARC meeting in Geneva. Among them would be a limit on antenna farming, a program for offsetting RF absorption by deploying more transmitters around the globe, and requiring hams to turn off their receivers when not really listening.
Perilous times.

- Adrian VE7NZ reporting from The United Nations Radio Exposure Alliance League (UNREAL)



**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

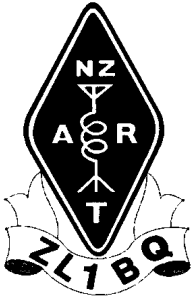
022-6493310

mattking@gmail.com

The Deputy Leader position is currently vacant

AREC News:

Stay up-to-date with what's happening nationally with AREC—go to <http://arec.info/> for updated news, newsletters and much more.



AUCKLAND VHF GROUP (INC)

SUPPORT THE EFFORTS OF THE VHF GROUP THROUGH YOUR
SUBSCRIPTION

SUBSCRIPTIONS FOR 2021

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 **\$55.00**

ASSOCIATE MEMBERSHIP **\$50.00**

FAMILY MEMBERSHIP ADDITIONAL **\$20:00**

SEE ATTACHED MEMBERSHIP RENEWAL FORM (next page)

**REMEMBER TO KEEP US INFORMED OF YOUR EMAIL
ADDRESS!**

OTHERWISE WE CANNOT SEND YOU SPECTRUM!



Thought for the month:

“ If it is explained so clearly nobody could misunderstand, someone will. ”



AUCKLAND VHF GROUP INC.

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



NAME				
Mr/Mrs/ Miss/Ms	Christian or given		Surname	
Address				Date:(dd/mm/yy)
				Phone: (home)
				Phone: (work)
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 #)
Category				To pay
Membership	Full		\$55.00	\$
New/Renewal/Change	Associate		\$50.00	\$
Receipt #	Family (per member)		\$20.00	\$
Donations	Klondyke Refurbishment			\$
Auckland/Brynderwyn/ Klondyke/670/690	Repeater Maintenance			\$
	Data/D-Star			\$
	Beacon/Repeater/Links/ Licences			\$
	Other			\$
			Total	\$
Payment (Mark One →)		Cash <input type="checkbox"/>	Cheque <input type="checkbox"/>	Internet deposit <input type="checkbox"/>
Invoice/Statement required		<i>Please Advise Treasurer</i>		
Internet	To account ASB 12-3011-0830580-00. Account name is: Auckland VHF Group Inc. Include your Name/Callsign for us to track. Note: this form needs to be sent to us to update records. Email to: treasurer@aucklandvhf.org .			
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 Tuesday of the month.			
Privacy	Unsubscribe from Email Notifications <input type="checkbox"/>		Do Not disclose contact Information <input type="checkbox"/>	

Membership Renewal Form 2020-2021_v5_2020-09-08.pdf

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 2021

<u>Repeater frequency</u> and name	Repeater location	Sponsorship advised for 2020	Amount paid
53.725 Repeater	Klondyke Road		\$
144.253 Beacon	Nihotupu	Stability testing	
145.625 Data Rptr	Klondyke Road	Not operating	
145.650 D-Star repeater	Klondyke Road		\$
146.625 Repeater	Klondyke Road	David Wilkins	\$50
146.700 Repeater	Ruaotuhenua	Dennis Thornton	\$50
146.900 Repeater	Mt Puketutu Radio	David Wilkins	\$50
432.253 Beacon	Nihotupu	Stability testing	
438.175 D-Star repeater	Klondyke Road		\$
438.500 Repeater	North Head	Not operating	
439.850 Link Tx to Kaimai	Klondyke Road	George Marr	\$50
439.875 Ak Nat Sys Rptr	Klondyke Road		\$
439.900 Link Tx to Egmont	Klondyke Road	Kylie Peterson	\$50
439.950 Link Tx to Brynderwyn	Klondyke Road		\$
1291.900 Repeater	217 Glenfield Rd		\$
		Total Sponsorship	\$250
NZART Inc: Branch/Personal donations			
Papakura Radio Club		\$500	
Auckland Branch		\$100	
Manukau Radio Club		\$100	
Donations		\$950	

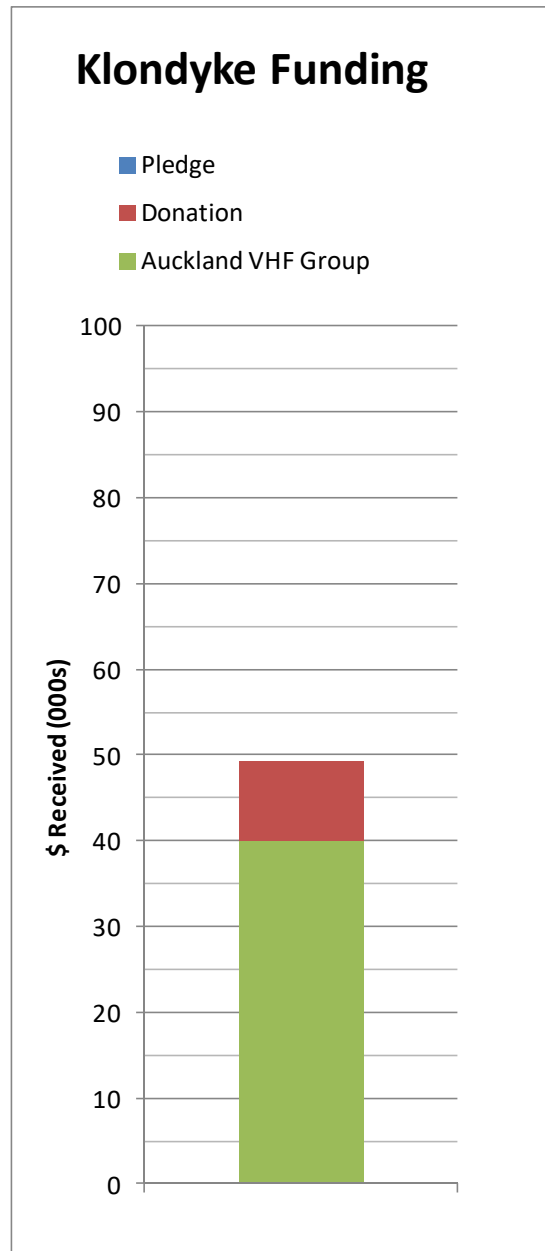
Current as at 30/01/2021

The Auckland VHF Group, Branch 66, would like to thank all those who came forward to sponsor the licence fee for our Beacons, Repeaters or Fixed Links for the year 2021 or donate towards the Group's repeater Operations.

**Klondyke Tower
Donations towards Maintenance**

Target 100,000

Name	Donation	Pledge	Tower	63,245.00	Other	27,268.25
			GST	9,486.75		
Donations 2018 - 2020	8444.00					
			Total	72,731.75	Total	27,268.25
Margaret Dingley ZL1AYV	100.00					
David Dingley ZL1TIA	100.00		Auckland VHF Group	40,000.00	40.00	
Jennie Dingley, ZL1TDB	100.00					
Yuri Muzyka ZL1GYM	50.00					
Martyn Seay ZL3CK	500.00					



Total	9294.00	-
Percent	9.29	0.00

Celebrate World Amateur Radio Day

Sunday 18 April is World Amateur Radio Day (WARD) and this year marks the 96th anniversary of the International Amateur Radio Union (IARU), which was founded at the 1925 International Radiotelegraph Conference in Paris.

The IARU has chosen "Amateur Radio: Home but Never Alone" as the theme for World Amateur Radio Day 2021. The theme acknowledges that during our physical distancing to reduce the spread of COVID-19, amateur radio stands out as a welcome respite for its variety of activities and opportunities. On World Amateur Radio Day, all radio amateurs are invited to take to the airwaves to share global goodwill with other amateurs.

Online Comm Academy 2021 is set for April 11 – 12

The ARRL report the 2021 Comm Academy is 2 days of training, talks, and information on emergency communications and amateur radio. This year's theme is Disasters Here, There, and Everywhere — Are We Ready?

Registration is free and required to gain access to the complete schedule and academy materials. The Academy is entirely virtual and hosted online.

Headquartered in Seattle, Washington, Comm Academy is attended and supported by organizations including the Amateur Radio Emergency Service (ARES®); Radio Amateur Civil Emergency Service (RACES); Auxiliary Communications Service (ACS); EOC Support Teams; Civil Air Patrol; Coast Guard Auxiliary; REACT, and CERT, among others.

All interested in emergency and amateur radio communications are welcome to network and share experiences.

The event focuses on education for communications leaders, volunteers, and professionals.

TRADING TABLE

Currently our Trading Table is only open on meeting nights.

We 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.

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 and we will offer a discount for purchases of 20m or more. See Vaughan ZL1VH on meeting nights to get the 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.

