



The Official Newsletter of  
the  
**PAPAKURA RADIO  
CLUB INC.**

*October 2023*



*It's time to decide*



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### **This Month's Meeting:**

Wednesday 4<sup>th</sup> of October will be the next meeting for 2023. Following general business, we will have a presentation on the new discord server for ham radio, and what it means for us all. By Tristan ZL1TC.

There will be a cuppa and biscuit afterwards so we can socialise, radios optional.

**If transport is a problem, let the committee members know, and we may be able to assist with arranging a ride for you.**

Dates: **Wednesday 4<sup>th</sup> August**  
**Wednesday 11<sup>th</sup> August**  
**Wednesday 18<sup>th</sup> August**  
**Wednesday 25<sup>th</sup> August**

**General Meeting**  
**Project Night – 12 volt power board**  
**Committee Meeting**  
**Activity Night – See Club activity**



## Featured DX

### E6AM NIUE ISLAND

E6AM Team will be active from Niue Island, IOTA OC - 040, 10 - 27 October 2023.

Team - LZ1GC, LZ1ON.

They will operate on 160 - 6m, including WARC and 60m Bands, CW, SSB, FT8.

QSL via LZ1GC, LOTW, ClubLog OQRS, QRZ com Log Book.

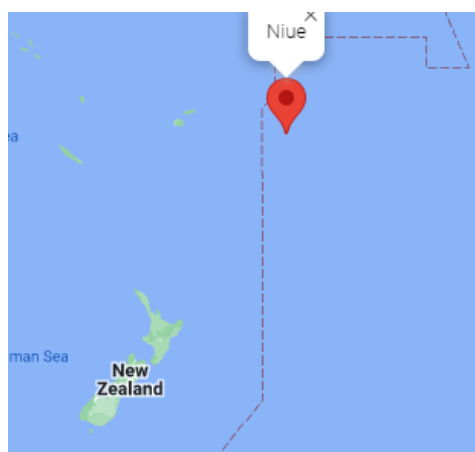
Ads for direct QSL:

Stanislav Vatev, ul. "Gen.Karcov" 6 A, 4300, Karlovo, Bulgaria.

The equipment will be:

Transceivers: Yaesu FT DX 10 & Kenwood TS 480 SAT

Linear amplifiers: ACOM 1200S ( 1.2 KW ) and ACOM 700S ( 700 watts ).



And

### E51JAN MANIHIKI ISLAND

Janusz, SP9FIH will be active as E51JAN from Manihiki Island, IOTA OC - 014, North Cook Islands, 12 October - 6 November 2023.

He will operate on HF Bands, including activity in CQ WW DX SSB Contest.

QSL via ClubLog OQRS.

QTH Locator - AH99lo.

DXCC Country - North Cook Islands, E5/N.



# UPCOMING CONTESTS

|    | Start - Finish |           | Bands           | Contest Name                             | Mode      | Exchange                                  | Sponsor's Website  |
|----|----------------|-----------|-----------------|--|-----------|---|--|
|    | Date-Time      | Date-Time |                 |  |           |   |  |
| 1  | 0600           | 1 0900    | 3.5             | UBA ON Contest, SSB                      | Ph        | RS, serial, ON section (if ON)            | <a href="http://www.uba.be">www.uba.be</a>   |
| 1  | 2200           | 1 2359    | 3.5-14          | Peanut Power QRP Sprint                  | CW Ph     | RS(T), SPC, peanut no. or pwr             | <a href="http://www.nogaqrp.org">www.nogaqrp.org</a>   |
| 2  | 1900           | 2 2030    | 3.5             | RSGB 80m Autumn Series, CW               | CW        | RST, serial                               | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 3  | 0100           | 3 0300    | 3.5-28          | ARS Spartan Sprint                       | CW        | RST, SPC, pwr                             | <a href="http://arsqrp.blogspot.com">arsqrp.blogspot.com</a>                                 |
| 4  | 1900           | 4 2300    | 432             | 432 MHz Fall Sprint                      | CW Ph Dig | 4-char grid                               | <a href="http://svhfs.org">svhfs.org</a>   |
| 5  | 0000           | 6 0300    | 7               | Walk for the Bacon QRP Contest           | CW        | 13 WPM max; RST, SPC, name, mbr/pwr       | <a href="http://qrptest.com/pigwalk40">qrptest.com/pigwalk40</a>                             |
| 5  | 1700           | 5 1900    | 3.5             | SARL 80m QSO Party                       | Ph        | RS, serial, grid or QTH                   | <a href="http://www.sarl.org.za">www.sarl.org.za</a>   |
| 5  | 1700           | 5 2100    | 28              | NRAU 10m Activity Contest                | CW Ph Dig | RS(T), 6-char grid                        | <a href="http://nrau.net/nrau-contests-in-general">nrau.net/nrau-contests-in-general</a>     |
| 7  | 0000           | 8 2359    | No WARC         | Collegiate QSO Party                     | CW Ph Dig | School ID or SPC, RS(T)                   | <a href="http://collegiateqsoparty.com">collegiateqsoparty.com</a>                           |
| 7  | 0600           | 8 0600    | 1.8-28          | Oceania DX Contest, Phone                | Ph        | RS, serial                                | <a href="http://www.oceaniadxcontest.com">www.oceaniadxcontest.com</a>                       |
| 7  | 0800           | 7 1400    | 902 and above   | Microwave Fall Sprint                    | CW Ph Dig | 6-char grid                               | <a href="http://svhfs.org">svhfs.org</a>   |
| 7  | 1200           | 8 1159    | 1.8-28          | Russian WW Digital Contest               | Dig       | RST(Q), oblast code or serial             | <a href="http://www.rdrclub.ru">www.rdrclub.ru</a>   |
| 7  | 1400           | 8 1400    | See rules       | IARU Region 1 UHF/Microwaves Contest     | CW Ph Dig | RS(T), serial, 6-char grid                | <a href="http://www.iaru-r1.org">www.iaru-r1.org</a>   |
| 7  | 1600           | 8 1100    | 3.5,7           | International HELL Contest               | Dig       | RST, serial                               | <a href="http://www.darc.de">www.darc.de</a>   |
| 7  | 1600           | 8 2200    | 1.8-28          | California QSO Party                     | CW Ph     | Serial, CA county or SPC                  | <a href="http://www.cqpp.org/Rules.html">www.cqpp.org/Rules.html</a>                         |
| 8  | 0600           | 8 0900    | 3.5             | UBA ON Contest, CW                       | CW        | RST, serial, ON section (if ON)           | <a href="http://www.uba.be">www.uba.be</a>   |
| 9  | 0000           | 9 0200    | 1.8-28          | 4 States QRP Group 2nd Sunday Sprint     | CW Ph     | RST, SPC, mbr or pwr                      | <a href="http://www.4sqrp.com">www.4sqrp.com</a>   |
| 10 | 0001           | 10 2359   | 28              | 10-10 Int'l 10-10 Day Sprint             | CW Ph Dig | Name, mbr or "0," SPC                     | <a href="http://www.ten-ten.org">www.ten-ten.org</a>   |
| 10 | 1800           | 10 1929   | 3.5,7           | DARC RTTY Sprint                         | Dig       | RST, DOK "NM," or serial                  | <a href="http://www.darc.de">www.darc.de</a>   |
| 11 | 0030           | 11 0230   | 3.5-14          | NAQCC CW Sprint                          | CW        | RST, SPC, mbr or pwr                      | <a href="http://naqcc.info">naqcc.info</a>   |
| 11 | 1900           | 11 2030   | 3.5             | RSGB 80m Autumn Series, Data             | Dig       | RST, serial                               | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 14 | 0000           | 15 1559   | 3.5-28          | Makrothen RTTY Contest                   | Dig       | 4-char grid                               | <a href="http://www.pl259.org">www.pl259.org</a>   |
| 14 | 0300           | 15 2100   | 1.8-28, VHF/UHF | Nevada QSO Party                         | CW Ph Dig | RS(T), NV county or ARRL/RAC section      | <a href="http://nvqso.com">nvqso.com</a>   |
| 14 | 0600           | 15 0600   | 1.8-28          | Oceania DX Contest, CW                   | CW        | RST, serial                               | <a href="http://www.oceaniadxcontest.com">www.oceaniadxcontest.com</a>                       |
| 14 | 1200           | 14 2200   | 1.8-28,50       | Solar Eclipse QSO Party                  | CW Ph Dig | RS(T), 6-char grid                        | <a href="http://hamsci.org/seqp-rules">hamsci.org/seqp-rules</a>                             |
| 14 | 1500           | 15 0500   | 1.8-28          | Arizona QSO Party                        | CW Ph     | RS(T), AZ county or SPC                   | <a href="http://www.azqp.org">www.azqp.org</a>   |
| 14 | 1600           | 15 2200   | No WARC         | Pennsylvania QSO Party                   | CW Ph     | Serial, PA county or ARRL/RAC section     | <a href="http://paqso.org">paqso.org</a>   |
| 14 | 1800           | 15 1800   | 1.8-28, 50,144  | South Dakota QSO Party                   | CW Ph Dig | RS(T), SD county or SPC                   | <a href="http://www.sdqsoparty.com">www.sdqsoparty.com</a>                                   |
| 14 | 2000           | 15 2000   | 1.8             | PODXS 070 Club 160m Great Pumpkin Sprint | Dig       | RST, SPC                                  | <a href="http://www.podxs070.com">www.podxs070.com</a>                                       |
| 15 | 0000           | 15 0200   | 14,21           | Asia-Pacific Fall Sprint, CW             | CW        | RST, serial                               | <a href="http://jsfc.org/apsprint/">jsfc.org/apsprint/</a>                                   |
| 15 | 0700           | 15 1000   | 144             | UBA ON Contest, 2m                       | CW Ph     | RS(T), serial, ON section (if ON)         | <a href="http://www.uba.be">www.uba.be</a>   |
| 15 | 2300           | 16 0100   | 1.8-28          | Run for the Bacon QRP Contest            | CW        | RST, SPC, mbr or pwr                      | <a href="http://qrptest.com/pigrun">qrptest.com/pigrun</a>                                   |
| 16 | 1900           | 16 2030   | 3.5-14          | RSGB FT4 Contest                         | FT4       | Signal report                             | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 19 | 0000           | 20 0300   | 14              | Walk for the Bacon QRP Contest           | CW        | 13 WPM max; RST, SPC, name, mbr/pwr       | <a href="http://qrptest.com/pigwalk20">qrptest.com/pigwalk20</a>                             |
| 19 | 1900           | 19 2000   | 3.5-14          | NTC QSO Party                            | CW        | 25 WPM max; RST, mbr, or "NM"             | <a href="http://pi4ntc.nl">pi4ntc.nl</a>   |
| 20 | 1700           | 22 0100   | 1.8-28,V/U      | Telephone Pioneers QSO Party             | CW Dig Ph | Chapter no. or RS(T), name                | <a href="http://www.tpqso.com">www.tpqso.com</a>   |
| 21 | 0000           | 22 2359   | 3.5-28          | JARTS WW RTTY Contest                    | Dig       | RST, age of operator                      | <a href="http://jarts.jp/rules2023.html">jarts.jp/rules2023.html</a>                         |
| 21 | 0000           | 22 2359   | 1.8-28          | YBDXPI FT8 Contest                       | FT8       | 4-char grid                               | <a href="http://contest.ybdxpi.net/rules">contest.ybdxpi.net/rules</a>                       |
| 21 | 0001           | 22 2359   | 28              | 10-10 Int'l Fall Contest, CW             | CW        | Name, mbr or "0," SPC                     | <a href="http://www.ten-ten.org">www.ten-ten.org</a>   |
| 21 | 1400           | 22 0200   | No WARC         | New York QSO Party                       | CW Ph Dig | RS(T), NY county or SPC                   | <a href="http://www.nyqp.org">www.nyqp.org</a>   |
| 21 | 1400           | 23 0200   | No WARC         | YLRL DX/NA YL Anniversary Contest        | CW Ph Dig | Serial, RS(T), ARRL Section or PC         | <a href="http://ylrl.net/contests">ylrl.net/contests</a>                                     |
| 21 | 1500           | 22 1459   | 3.5-28          | Worked All Germany Contest               | CW Ph     | RS(T), DOK or "NM" or serial              | <a href="http://www.darc.de">www.darc.de</a>   |
| 21 | 1500           | 22 1500   | 1.8             | Stew Perry Topband Challenge             | CW        | 4-char grid                               | <a href="http://www.kkn.net/stew">www.kkn.net/stew</a>                                       |
| 21 | 2000           | 21 2359   | 1.8-28,50       | Feld Hell Sprint                         | Dig       | RST, mbr, SPC, grid                       | <a href="http://sites.google.com/site/feldhellclub/">sites.google.com/site/feldhellclub/</a> |
| 21 | 2130           | 21 2300   | 7               | Argentina National 7 MHz Contest         | Ph        | RS, 2-digit year first licensed           | <a href="http://www.lu4aa.org">www.lu4aa.org</a>   |
| 22 | 1700           | 23 0100   | 1.8-28, 50,144  | Illinois QSO Party                       | CW Ph Dig | RS(T), IL county or SPC                   | <a href="http://w9awe.org/ilqp">w9awe.org/ilqp</a>   |
| 26 | 1900           | 26 2030   | 3.5             | RSGB 80m Autumn Series, SSB              | Ph        | RS, serial                                | <a href="http://www.rsgbcc.org">www.rsgbcc.org</a>   |
| 27 | 1500           | 27 2359   | 3.5-28          | Zombie Shuffle                           | CW        | RS(T), SPC, Zombie no. or area code, name | <a href="http://www.zianet.com/grp">www.zianet.com/grp</a>                                   |
| 28 | 0000           | 29 2359   | 50-1296         | ARRL EME Contest                         | CW Ph Dig | Signal report                             | <a href="http://www.arri.org/eme-contest">www.arri.org/eme-contest</a>                       |
| 28 | 0000           | 29 2359   | 1.8-28          | CQ World Wide DX Contest, SSB            | Ph        | RS, CQ zone                               | <a href="http://www.cqww.com">www.cqww.com</a>   |

Note: All dates and times are in UTC, Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state.

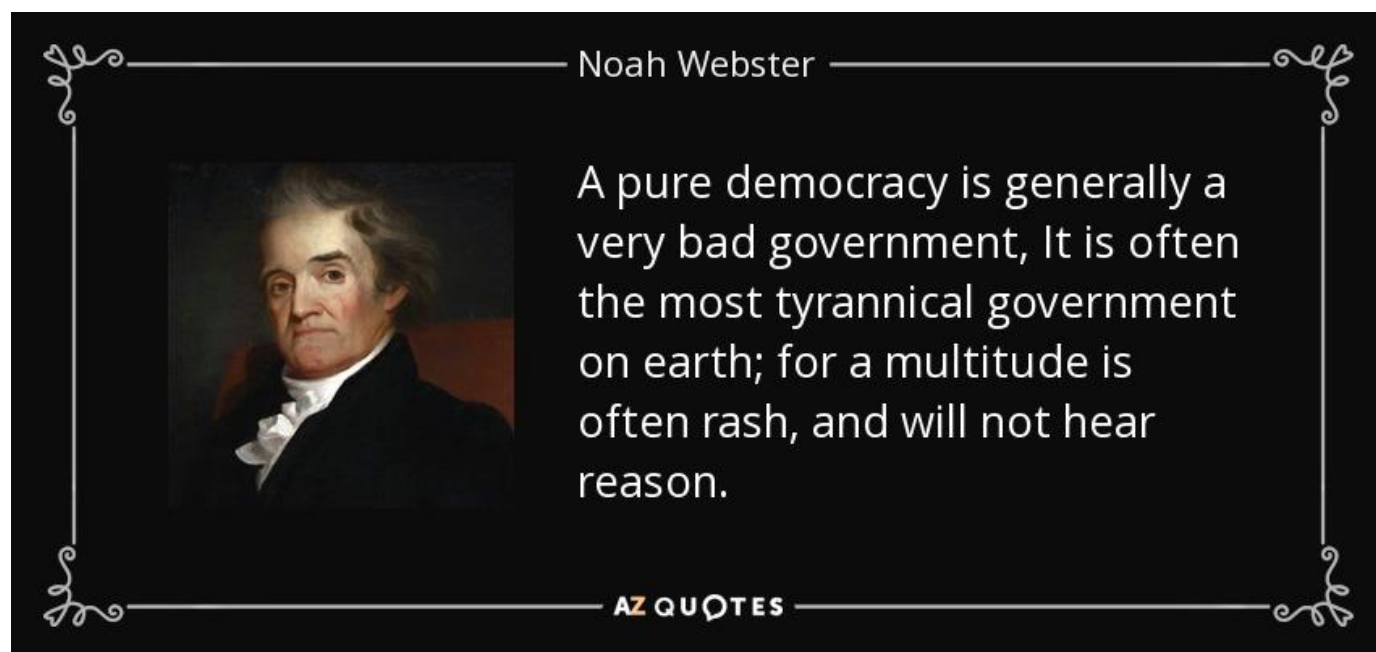


## RAMBLINGS FROM THE EDITOR'S DESK

While it may not seem like it, we are now well on our way into spring, even if we don't feel much of it, the buds on the trees and the growth in the garden are all signs that 🎵 *the times are a changing* 🎵, winter has had it's season and spring will bring about many changes, and eventually the summer months will be upon us.

On the subject of change, the election may to many seem to already be over, but we know from recent history that it won't be over until the last vote is counted, or maybe even a bit later. So I hope that you have put aside all personalities and media puff pieces, after all, it's not a Miss Universe contest, and having considered the policies of all the different parties, have decided the party that best deserves your vote. But I also hope you have taken the time to determine the person who is best suited to serve you as a local electorate MP, and this person, of course, needs to be someone who will put your community's best interests first and foremost. These two votes are very different and each should be given the respect that it deserves.

With my thoughts from last month. Where I pondered the "Wasted Vote" I was "Guided" to an article on how the Lagrange system deals with "Wasted" votes. Many people may not realise what happens is that these votes are all counted, and seats are allocated, but not given to the parties that did not meet the threshold, Instead these are then reallocated by the electoral commission to the parties that did make the threshold on a proportional basis. While this seems to me a very inappropriate process, it is possibly one more of the things we did not know about the system we consider to be "Democracy", a system Winston Churchill described as "The worst form of government, except for all the others that have been tried. But Love it, or hate it, It is our only chance to have a say, and to make any point, So have the courage of your convictions, Pick your two choices, The party that best represents you, and the person who will best represent you, and then hope you will not have to deal with them again for three more years.



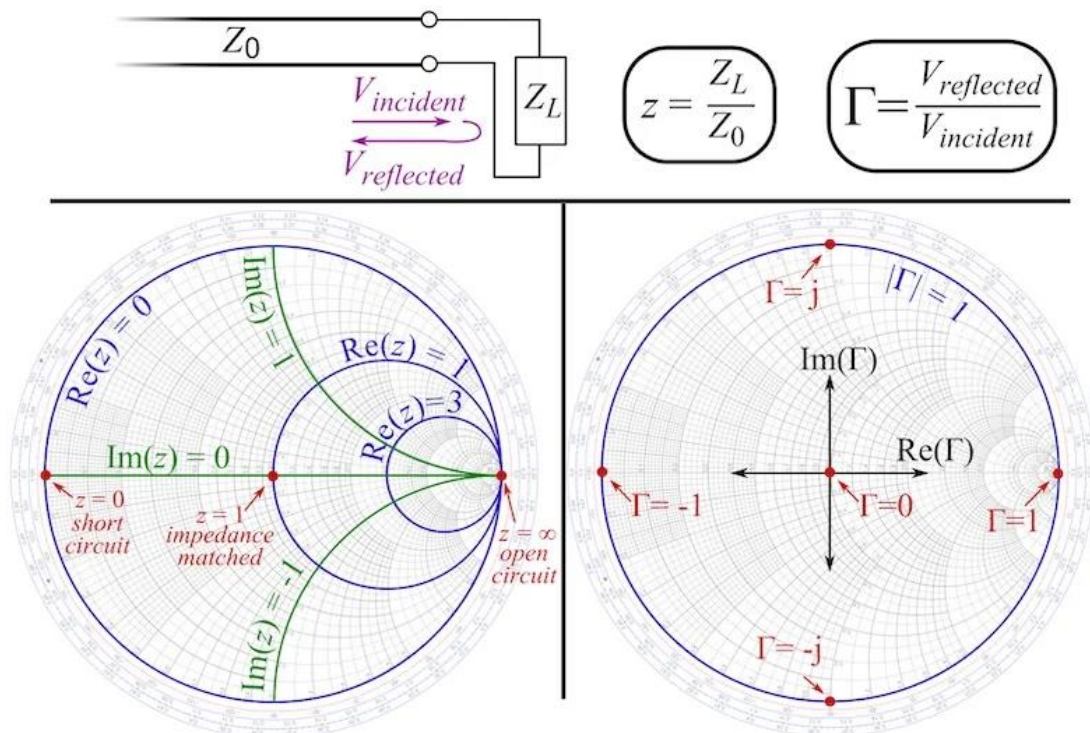
Which, in simple terms, would mean that after our civic duty of voting on the 14<sup>th</sup> is over, we would be left alone to get on with living our own lives, though I hold little hope that this will happen.

Sadly once the dust settles, we will probably still have to argue about why we should be allowed to keep an antenna on property we own and then argue about the value of ham radio in a world that considers the internet a basic human right, and the only essential tool for all things. We will need to be well organised, and we will need our association to be strong to help us manage these, so hopefully you are also remembering to renew your membership with NZART so they can continue to keep us and our hobby alive and kicking.

And I wonder, have the lessons of Cyclone Gabrielle been forgotten already? More importantly, does it matter to us? Should it? To put it another way. Why do you have, and use your Radio? If the only value in amateur radio was in AREC roles, or supporting other activities, then how much value would our license have?

The recognition of amateur radio by the authorities of old, recently re-iterated by the ITU-R international body for the allocation of the radio spectrum, recognised both the supporting roles amateurs have played in difficult times, but also the continued technical skills that amateur radio operators bring to their communities, workplaces and countries. The “Amateur” is not just a “Licensed Operator” but is given the freedom to experiment, to try and test new technologies, and to make mistakes, for in doing so we also make changes.

Would Phillip Smith have created the method of calculating impedance lines and graphing this, in the form of the “Smith Chart” if he had not first been doing this exact work as a Ham?, Would he have created the cloverleaf FM antenna, if he had not hobby built hundreds of different homemade antennas first?



*The Smith Chart is still used in RF design*

While paper Smith charts may be obsolete, the charts are still widely used today and are incredibly useful for showing how RF parameters behave at one or more frequencies. In fact, most RF circuit analysis software includes a Smith chart option for displaying results. Instead of the digital era diminishing the importance of the Smith chart, it has become the ultimate background for both computer and measurement instrument displays. Not bad for a tool designed to make line characteristics easier to predict.

So what was it that made you want to be a ham, or what is it that keeps you on Air?

Is it the hardware?

Do you like to design stuff?

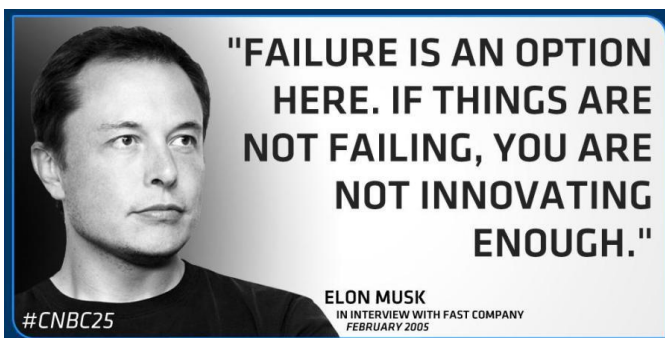
Do you like to repair stuff?

Is it playing with antennas?

Is it contesting?

Is it field operating? POTA SOTA or Lakes?

Or ... Is it the social contacts?



We forget this one at our peril, despite our many differences, and yes we have many differences, we share a common crazy and bizarre hobby, but through it, we build friendships and gain an understanding of the values our unique perspective brings to the hobby.

We did social media, long before it was popular on the internet, (since 1922 to be NZ specific) and we did not need influencers, filters (though maybe some of us might benefit from a comments filter 🤖) or fancy equipment, We simply had fun, tried things, made mistakes, and made a lot of friends.

So whatever it is that you enjoy about the hobby, do it, enjoy it and as the months get warmer, take it outdoors with you. Who knows you may just change the world.

And if not, Maybe your life will be a little richer.

Either way, It's worth a crack



See you at a meeting again soon

73 for now de ZL1NUX



## 10% BATTERY IMPROVEMENT WITH A PIECE OF TAPE

A team of researchers at Dalhousie University in Halifax, Canada discovered a simple and cheap way to extend battery life in smartphone and laptop batteries.

A research team led by PhD student Anu Adamson found that the polyethylene terephthalate (PET) tape typically used to hold lithium-ion battery components together is prone to dissolving. This happens due to a chemical reaction in the battery and leads to a battery self-discharging over time.

If you've ever charged a battery and left it sitting idle only to come back a few days later to find some of the charge has depleted, you know how frustrating it can be. However, there's an easy fix.

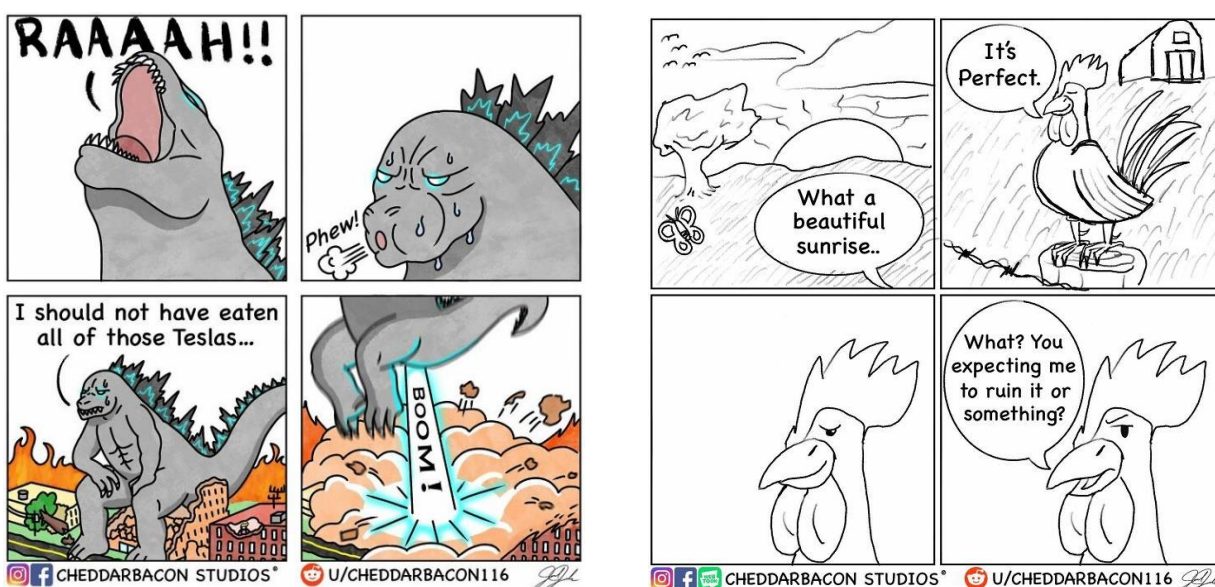
Rather than using PET tape, Adamson determined that switching to using polypropylene (PP) tape in these batteries fixed the dissolving problem. The good news is, PP tape costs about the same as PET tape so there's no additional costs involved for manufacturing.

As for the benefits, the research team found that battery life in PP tape batteries is extended by up to 10 percent, while self-discharge decreases by up to 70 percent. In other words, it's a no-brainer for manufacturers to make the switch to PP tape on their production lines.

Jeff Dahn, a professor emeritus in Dalhousie University's departments of physics, atmospheric science and chemistry, commented on the research, "This is incredibly nice chemical detective work ... And it takes a very talented student to do this type of thing — to recognize all the connections between the various things that are going on in a lithium-ion battery and come up with this idea, is incredibly impressive."

Adamson's research paper, "Improving lithium-ion cells by replacing polyethylene terephthalate jellyroll tape," was published in Nature Materials.

It's unlikely manufacturers will drag their feet in switching over to the different type of tape. If this research holds up to scrutiny, the big smartphone and laptop brands will demand the change be made as soon as possible for their existing products, after all any performance boost that costs nothing has to be a win for the industry and also the consumer.



## MMDVM BASED PROJECTS TO MERGE INTO ONE OPEN SOURCE PROJECT.

MMDVM hardware and software is at the core of most digital mode hotspots on the market. The success of the MMDVM Project comes from countless hours of work by different people and projects going back to the earliest days on D-STAR.

And – The latest news is good news for fans of DMR or Cross Mode hotspots.

MMDVM now supports D-STAR, DMR, YSF, P25, NXDN, M17, POCSAG, and even analogue FM. This project has become a truly wonderful open-source project.



Funded by a grant from Amateur Radio Digital Communications (ARDC), Jonathan Naylor (G4KLX) has been hired as a full-time software developer. Jonathan is a pioneer of digital voice software, developing software for D-STAR, DMR, System Fusion, M17, NXDN, P.25, and POCSAG.

With a full-time software developer dedicated to the MMDVM project, many important tasks can be carried out, such as:

### Bug mitigation

- Improving the core code module (MMDVM Host) relating to both the display interfaces and digital modes
- Adding support for industry standards, such as Message Queuing Telemetry Transport (MQTT), which is analogous to a fast and reliable texting system that allows devices to communicate efficiently
- Creating a web-based configuration and monitoring solution
- Creating a portable UI on additional hardware platforms
- Adding KISS/AX.25 packet support along with higher speed data rates to run on existing MMDVM hardware
- Porting firmware to next generation microcontrollers

Work has started on the aforementioned software upgrades to MMDVM, and many of the long-term bugs in the software have been fixed. Regarding their progress toward improving MMDVM Host, they have added support for AX.25, and they now provide full support for amateur-driven M17 digital voice protocol.

Work is currently underway to develop 9600, 19200, and 38400 baud packet modes that support narrow bandwidth using a modulation (4FSK) similar to Digital Mobile Radio (DMR). The packet modes include support for IL2P, which is a new link layer protocol with integral forward error correction (FEC).

To learn more about the MMDVM project, visit [mmdvm-project.org](http://mmdvm-project.org)  
(that is, Once they get there website up and running).

## SORRY – HOW MANY OCEANS?

So just how many oceans are there? Four, Five or Seven. Surely a simple question for a pub quiz?

“♪♪♪ I joined the Navy, to see the world, and what did I see, I saw the sea, I saw the Atlantic and the Pacific, and the Pacific isn't terrific, and the Atlantic isn't what it's cracked up to be” ♪♪♪

If you were forced to learn geography, Like I was at school, you would have been taught about the 4 oceans. Indian, Arctic, Pacific and Atlantic. But during my time sailing in the Southern Ocean, I came to realise that this 5<sup>th</sup> Ocean was widely discussed but not universally recognised.



What I didn't know, until recently, is that the Southern Ocean was officially recognised by National Geographic back in 2021, June 8<sup>th</sup> 2021 to be precise. And since then, the world has been getting used to the fact that there are now 5 Oceans.

Although the designation of the frigid waters around the icy southern continent as a separate ocean has kicked around for almost 100 years and was widely used, until recently it has not had popular backing.

National Geographic began making maps in 1915, but the society had only formally recognized four oceans, which they defined by the continents that bordered them.

In contrast, the Southern Ocean is defined not by the continents that surround it, but by the Antarctic Circumpolar Current (ACC) that flows from west to east. Scientists think the ACC was created 34 million years ago when the continent of Antarctica separated from South America, allowing water to flow unimpeded around the "bottom" of the world.

Today, the ACC flows through all waters that surround Antarctica until about 60 degrees south, except for the Drake Passage and the Scotia Sea, which are both roughly between South America's Cape Horn and the Antarctic Peninsula.

The waters of the ACC — and therefore most of the Southern Ocean — are colder and slightly less salty than the ocean waters to the north. The ACC pulls in water from the Atlantic, Pacific and Indian oceans to help drive a global "conveyor belt" that carries heat around the planet, while the cold dense water of the ACC sinks and helps to store carbon in the deep ocean. And thousands of marine species live only within the ACC, according to National Geographic.

Exactly what constitutes an ocean is not agreed, other than that they are the largest bodies of water. A common definition split the global ocean into four or five parts, according to the continents that surrounded them.

Nevertheless, the term "Southern Ocean" had been used to describe the waters at the bottom of the world since they were first seen by the Spanish explorer Vasco Núñez de Balboa early in the 16th century, and its use continued as oceans became vital routes for international communications and trade in the centuries that followed.

By the 19th century, many maritime nations had established "hydrographic" authorities to publish information on the oceans for their navies and merchant vessels, and the term "Southern Ocean" appeared in the early publications of the International Hydrographic Organization (IHO) that they formed in 1921.

But according to the book "Southern Ocean: Oceanographers Perspective" (Ice Press, 2015), the IHO rescinded the designation in 1953: "The majority of opinions received ... are to the effect that there exists no real justification for applying the term Ocean to this body of water," the IHO wrote in the guidelines it published that year.

The original "ocean" was, in fact, a river — named by the ancient Greeks after the titan Oceanus, a river god who was the son of Uranus and Gaia and the brother and husband of Tethys, the goddess of the primal waters that nourished the Earth.

This river "Ocean" was originally thought to encircle the world, which the early Greeks imagined ended somewhere just west of Europe and east of Asia. Eventually, the term would become used to describe the different parts of the global ocean.

The related term "Seven Seas," meanwhile, is much older than many modern oceans. No one knows where the concept originated, but the term appears in the ancient writings of the Greeks, Romans, Arabs, Hindus, Persians and Chinese, although it often described entirely different seas — some of them mythical — for different people.

According to the World Atlas website, the Seven Seas today are considered the seven largest oceanic bodies of water: the Arctic, North Atlantic, South Atlantic, Indian, North Pacific, South Pacific, and Southern or Antarctic Ocean

So, now you have a fun fact for a pub night quiz. But, better keep a copy of a recent national geographic map handy, just in case you have to justify your fact.





## HEARD AROUND THE SCENES

### INFOLINE MOVES TO A MONTHLY ISSUE

If you have not yet heard about Infoline, the regular short newsletter from NZART HQ, then you've probably been missing out some great info. You can get Infoline from the NZART website at: [NZART-InfoLine](http://NZART-InfoLine) (including past issues) or you can get a personal subscription by requesting one from [infoline@nzart.org.nz](mailto:infoline@nzart.org.nz).

The next issues of Infoline will be as below:

Infoline - 15 October

Infoline - 12 November

Infoline - 10 December

### THE NEXT OFFICIAL BROADCAST WILL BE HELD SUNDAY 29TH OCTOBER 2023 AT 8:00 PM.

It will be rebroadcast in the Auckland area on the 6625 Repeater, available on the NZART website: [NZART-Official Broadcast](http://NZART-Official Broadcast)



and is

### DIGITAL LIBRARY OF AMATEUR RADIO AND COMMUNICATIONS REACHES 90,000 ITEMS

The Digital Library of Amateur Radio & Communications (DLARC) has now added over 90,000 items to its collection of amateur radio related resources. The free online library is hosted by the Internet Archive.

Those interested in amateur radio and shortwave listening will find resources including magazines, club newsletters, podcasts, radio manuals, and early ham radio related Usenet conversations.

You can check out the collection at: <https://archive.org/details/dlarc>

### THE JOYS OF THE CAST IRON SKILLET





## THE RTL-SDR V3 VS RTL-SDR V4.

In his latest YouTube video Manuel Lausmann compares the performance of the RTL-SDR Blog V3 and the RTL-SDR Blog V4. The video is narrated in German, however YouTube's autotranslate + captions feature works well.

In the video he first compares the performance on HF, noting that there are significantly less interference signals in the HF spectrum due to the lack of Nyquist folding around 14.4 MHz, which is a known problem with the direct sampling mode. He later also compares performance in the VHF and UHF bands, notably finding an improvement in the 145 MHz region where the V3 has a pumping noise floor from out of band interference, whereas the V4 does not thanks to its additional filtering.

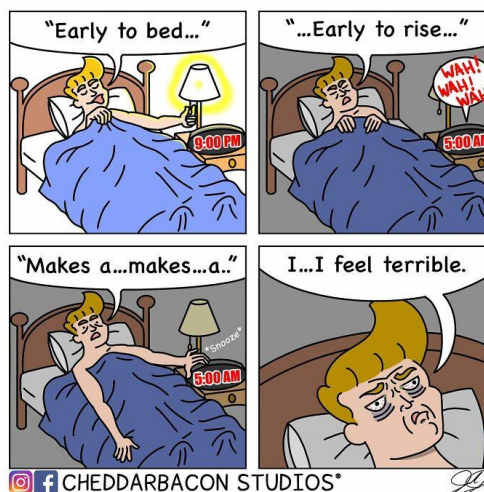
You can Check out the Video at: <https://youtu.be/SKhRpHhuiO8>

## INTERESTING ARTICLE:

The Los Angeles Times, ran an interesting Article on October 27<sup>th</sup> titled “If China declares war, these ham radio enthusiasts could be crucial” – With a focus on Taiwan, the article is a good overview of the 25,000 Taiwanese hams, A hobby only permitted since 1984, Though some “Hobby Builders were operating before that”. If you care a for a mainstream view of the hobby check out: [If China declares war, these ham radio enthusiasts could be crucial - Los Angeles Times \(latimes.com\)](https://www.latimes.com/entertainment-arts/story/2023-10-27/ham-radio-enthusiasts-china-war)

## WESTERN SUBURBS RADIO CLUB USED EQUIPMENT SALE

Early notice is given that the popular equipment sale will be held  
Saturday 4<sup>th</sup> of November at the Rosebank School Hall. Doors open to the public at 9 a.m.  
So mark your calendar and keep the date clear.



## SOME NETS – FOR WHEN YOU ARE LOOKING FOR SOME COMPANY

| Day            | Time (Local) | Freq (MHz) | Group                   |
|----------------|--------------|------------|-------------------------|
| Sunday         | 08:00        | 3.750      | Southern Net            |
|                | 09:00        | 3.700      | Bch 10. Franklin.       |
|                | 09:15        | 3.755      | Bch 65. Papakura.       |
|                | 19:00        | 146.700    | YL Net                  |
|                | 20:00        | 3.710      | Bch 42. Titahi Bay      |
|                | 21:30        | 3.595      | Duran WIA Net.          |
| Monday         | 19:30        | 3.757      | Bch 12. Hamilton        |
|                | 20:00        | 3.540      | CW Practice Net         |
|                | 20:00        | 3.605      | Br 80. Hibiscus Coast   |
|                | 20:00        | Nat System | W.A.R.O                 |
|                | 20:30        | 3.870      | O.T.C (Old Timers Club) |
| Tuesday        | 09:00        | 7.096      | Ex Post Office Techs    |
|                | 21:00        | 1.850      | 160m Net _ Ron ZL4JMF   |
|                | 19:30        | 3.690      | QRP ZL2BH               |
|                | 20:00        | 3.581      | CW improvers Net        |
| Wednesday      | 11:30        | 3.850      | SPAM Net                |
|                | 20:00        | 3.660      | Geek Net                |
|                | 20:00        | 3.645      | Bch 02. Auckland        |
|                | 20:00        | 3.745      | Bch 84. Bay of Islands  |
|                | 20:30        | 146.525    | W.R.S.C                 |
| Thursday       | 09:00        | 7.096      | Ex Post Office Techs    |
|                | 19:30        | 3.690      | QRP ZL2BH               |
|                | 20:00        | 3.540      | CW Practice Net         |
|                | 20:00        | 3.615      | Bch 89. REG Net         |
|                | 20:30        | 3.696      | ZL10A                   |
|                | 20:30        | 3.666      | LF Net ZL2CA            |
|                | 20:00        | 3.690      | ZL QRP SSB Net          |
| Friday         | 20:30        | 3.850      | SPAM (AM Mode)          |
|                | 20:30        | 3.650      | W.S.R.C.                |
|                | 20:30        | 3.560      | Digital Modes Net       |
| Saturday       | 10:30        | 28.530     | 10-10 Down Under        |
|                | 19:30        | 3.650      | Christian Fellowship    |
|                | 20:00        | 3.760      | ???                     |
|                | 20:30        | 3.600      | Ch 62. Reefton/Buller   |
| Daily or Other | 07:30        | 3.696      | ZL20A                   |
|                | 08:30        | 3.730      | ZL3RP                   |
|                | 15:00        | 14.300     | Pacific Seafarers       |
|                | 17:30        | 3.760      | Home Brew               |
|                | 05:00 Zulu   | 14.183     | ANZA DX Net             |
|                | 18:00        | 7.115      | VK7OB                   |
|                | 19:30        | 3.720      | ZL1MO                   |
|                | 18:30        | 3.766      | ZL3LE                   |
|                | 08:30/20:00  | 3.730      | ZL3RP                   |
|                | 20:30        | 3.725      | ZL2HN / ZL4RF           |
|                | 21:00        | 3.677      | Counties Net ZL2MA      |
|                | 21:00        | 3.535      | New Zealand Net (CW)    |

This is designed to be a living list, Please send me any updates whenever you are able:

**Papakura Radio Club Inc.**  
**Branch 65 NZART Club Directory 2017**  
**Wellington Park, 1 Great South Road.**  
**PO BOX 72-397 Papakura 2244**  
**PHONE 09 296 5244**

**Westpac 03-0399-0019896-00**

**Club website: <http://www.qsl.net/zl1vk> Club email: [zl1vk.club@gmail.com](mailto:zl1vk.club@gmail.com)**

|                     |          |                    |               |
|---------------------|----------|--------------------|---------------|
| President           | ZL1NUX   | Gavin Denby        | 021 459 192   |
| Vice President      | ZL1BNQ   | Richard Gamble     | 021 729 270   |
| Secretary           | ZL1AOX   | Ian Ashley         | 021 198 1810  |
| Treasurer           | ZL1MR    | David Wilkins      | 021 185 7903  |
| Committee           | ZL1DK    | David Karrasch     | 021 560 180   |
|                     | ZL1IRC   | Ian Clifford       | 021 082 48400 |
|                     | ZL1RJS   | Rob Stokes         | 021 307 005   |
|                     | ZL1RIC   | Ricky Hodge        | 027 533 8155  |
|                     | ZL4MDE   | Mike Enderby       | 021 529 895   |
| AREC Section Leader | ZL1BNQ   | Richard Gamble     | 021 729 270   |
| CD Liaison          | ZL1AOX   | Ian Ashley         | 021 198 1810  |
| Newsletter Editor   | ZL1NUX   | Gavin Denby        | 021 459 192   |
| Hall Custodian      | ZL1AOX   | Ian Ashley         | 021 198 1810  |
| Newsletter.         | Contact: | zl1nux@outlook.com |               |

Our newsletter is published monthly and normally distributed just before the club meeting. Please forward articles etc to the editor Wednesday 1 week before the general meeting. Please notify any change of address. Including E-Mail Address to the secretary.

### **Meetings**

General Meetings are held at the Clubrooms on the 1st Wednesday of each month, starting at 7.30 pm. Look at your calendar and mark these nights. The speaker follows the General Meeting.

Project Evenings are on the 4th Wednesday of each month.

Committee Meetings are held on the 3rd Wednesday of each month at 7.30 pm unless advised.

Activity Nights are held on the 2nd Wednesday starting at 7.30 pm.

AREC Meetings are on the 5th Wednesday night, also starting at 7.30 pm

AGM: Held in November

**Subscription:** Full membership and newsletter \$25.00 Family Membership and newsletter \$40.00

Bank Account number: 03-0399-0019896-00 Working Bees As required.

Branch 65 21 Award: For contacts with ZL1VK (5 Points) and 8 Papakura Radio Club Members (2 Points each) after January 2011. Total 21 Points. Cost \$5-00. Certified list and \$5-00 to Secretary, Papakura Radio Club. Address above.

### **ZL1VK Club Nets**

146.625 MHz Sunday at 8.30 am. Controller ZL1NUX, Gavin Denby. If the repeater is not available, listen 146.475MHz simplex.

3.755 MHz Sunday at 9.15 am. Controller ZL1BNQ Richard Gamble. (Linked to 146.675 & 438.775)