

The Official Newsletter of the

PAPAKURA RADIO CLUB INC.





. June 21 ~ Winter Solstice ~ Shortest Day





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This Month's Meetings:

Wednesday 2 June will be our general meeting at the clubrooms, Following general business we will discuss the NZART remit, and then Ian ZL1IRC will be discussing the MESH Network Project

Meetings for June.

Meetings will only occur at alert level 2 or lower. We cannot have social meetings at level 3. This means we will only open the clubrooms on Wednesdays when at we at alert levels 1 or 2 in accordance with current government guidelines.

Wed 2 June – General Meeting & Mesh Networking by ZL1IRC Wed 9 June – Activity Nigh – TBC Wed 16 June – Committee Meeting Wed 23 June – Project Night Wed 30 June – AREC Night

Page 2

Papakura Radio Club Inc.

CLUB ACTIVITY:

Members from the club attended the Papakura Street Fest in May, and the public response was very good – Watch out for some ham crams coming soon.

UPCOMING PROJECTS:

PROJECT AND ACTIVITY NIGHTS

Project nights have been building Flowerpot antenna's with same six metre antenna's in development. Listen out on 53.725 repeater for some new voices soon – We Hope. We will also, later, be building some satellite antenna designs for working off the ISS or other satellites. Also an updated version of the flower pot Portable VFH/UHF ground independent dual band antenna

We have an offer of Arduino programming classes later in the year, (we have some parts to order) so watch this pace for dates. Arduino boards are small but powerful boards with many applications in Ham Radio, and other electronic applications

And we have a DC power distribution project, still in the pipeline. – So a busy year if you chose to be part of it.

UPCOMING ACTIVITIES:

(ALERT LEVELS PERMITTING) WEDNESDAY 2 JUNE – GENERAL MEETING WEDNESDAY 9 JUNE – ACTIVITY NIGHT WEDNESDAY 16 JUNE – COMMITTEE MEETING WEDNESDAY 23 JUNE – PROJECT NIGHT WEDNESDAY 30 JUNE – AREC NIGHT

> PLEASE LISTEN FOR UPDATES ON THE SUNDAY MORNING CLUB NETS (SEE LAST PAGE FOR FREQUENCIES AND TIMES)





DX Calendar June 2021

01 02 03 04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
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<u>JG81</u>	JG8NQJ/JD1																									
VP2V/NC3Z																										
	<u>60100</u>																									
	KC4USV																									
<u>T5/IT9HRK</u>																										
	A35JP																									

A35JP Tongatapu Island

Masa, JA0RQV will be active again as A35JP from Tongatapu Island, IOTA OC - 049, from the end of May to October 2021.

He will operate on 80 - 6m, CW, SSB, FT8.

KC4USV McMurdo station Ross Island

KC4USV will be active from McMurdo Station, Ross Island, IOTA AN - 011, until 31 October 2021. Team - W5MED, W4BZB, KF0BHU. They will operate on 40 and 20m. Frequencies: 4243 and 7175 SSB and 14074 and 7074 FT8.

QSL via K7MT, LOTW.

Click on the link (CTRL + Click for some PDF readers) in the PDF versions for information on the Expeditions



Or check them out at DX News.com



Papakura Radio Club Inc.

June 2021

CONTESTS JUNE 2021

Date-Time Date-Time Bands Contest Name Mode Exchange Sponsor's Website 1 1700 1 1600 55 45.60 Workset State Workset State Workset State Workset State Workset State Congest State Workset State Congest State </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
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All dates and Times are in UTC and are not adjusted for local time

Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state.

Listings in blue indicate contests sponsored by ARRL or *NCJ*. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. Data for Contest Corral is maintained on the WA7BNM Contest Calendar at **www.contestcalendar.com**

Check for updates and a downloadable PDF version online at www.arrl.org/contests.

#/ivePapakura

PAPAKURA STREETFEST 2021

On Saturday the 8th of May members of the club gathered at two stands to promote both Civil Defence, and AREC awareness, and also the Amateur radio hobby. Setting up two displays, tables and equipment was performed fairly quickly once David arrived with the truckload from the clubrooms and then the setup began in earnest



While David ZL1DK and Richard ZL1BNQ, set up an AREC antenna, Ingrid ZL1RAH readies the next one

As the start time drew near, the stand numbers grew, and radios were quickly set up, antennas were erected, and equipment went on air. Both Will ZL1RVN and David ZL1MR have backpack radios and spent some time walking around the event talking with the base



Rodger – ZL1RAH had brought his homemade BITX HF radio along, and it attracted alot of interest, Sadly however we did not het it talking to our quick and dirty HF stick antenna, Later we switched to the IC-706

	Papakura Radio Club Inc.	Page 6	June 2021
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and tuned the antenna enough for a few QSO's between the backpack and the base on HF, and continued to enjoy HF contacts even when the set went home for a late lunch.

Wills portable station, hooked up to a homemade Flowerpot antenna attracted plenty of attention, and he made several contacts on the local repeaters, the enthusiasm from the community was a result of all who came along and shared their own enthusiasm for the hobby.



Dave with the Codan Backpack HF rig chats with fire service personal

The end result of all this chatting was a list of names who were interested in ham radio classes, some useful community contacts, and an awareness of the hobby and its role in fun, communication and also the experimentation and "Building Stuff" There were even discussions about solar and batteries so the technology side was very much on display.



Discussions about how to make the stands even better next year are already underway, and on behalf of the committee, and club, A big thank you to all who came along to any part, or stopped in at the stand to say hi. We can call this one a successful day.

Special thanks to David ZL1DK and Ian ZL1IRC who loaded the truck at the clubrooms

RAMBLINGS FROM THE EDITORS DESK

June. Winter has arrived, with vengeance, and we are now well into the second year of a pandemic. Hard to think that a year ago we were, cancelling everything (actually we were doing it again in February) and here we go again with even the Australian travel bubble being put back on hold. Even Dr Bloomfield is talking of another 3-5 years of ongoing impacts.

This will be with us for some time, so let's make sure we have plans in place to keep our hobby and support of each other in whatever happens in the days ahead.

Many of us possibly thought that with the pandemic, and the growth of communication requirements, we would have the best systems in place to manage just about anything, but after seeing how dependant our hospitals were on technology, and the impact of a single hacking act on the health system, we should be thinking about why we did not have a plan B yet alone any real backup strategy.

And as the impacts of the stolen data being released impacts on the individuals, we have to ask, who are you trusting with your data ... and should you be? It's one of the reasons we have a Privacy Act, and a guiding rule of complying with the Act is to only collect the information you really need.

I doubt that as a club we are at any risk of breaking this guideline, In fact if anything, we are likely to go the opposite way, and maybe we should have a little more information ... Like up to date emails and addresses, so just remember if you have changed address, or phone number of email, Make sure your club, RSM and NZART (If you're a member) are kept up to date.

But on the other hand, we also have to consider, what would happen if our systems went off-line. New Zealand is connected to the rest of the world by 12 glass fibres. What impact would a major network outage mean to us? Would our systems be able to still operate? As our radios and equipment get less RF and more computer based, or at least internet connected, what would happen if the internet links went down. Would we manage if we had to go to simplex? And since it happened during the Street-fest, and our CD displays stopped working, it was good that our radio didn't, so most people didn't even know that a Vodafone outage had stopped some of our stuff working. Luckily everything else just kept going.



Non-urgent cases can expect long wait times.

> For support and medical advice call

It might seem like a weird question or comment, but I've spent some time playing, and even with FM simplex, have been surprised just how far you can get with a decent antenna and a bit of height. It's interesting to note that at the AREC meeting, It was suggested that perhaps in every AREC region a channel was monitored, and in an act of irony, 146.475 was suggested. Since this is the second FM call channel 145.500 being the other FM call, I wondered why people would not normally be listening, I do listen on it,



and there are a few calls on it, But who listens to 145.500? What would happen if a visitor called? Do we even know our own band plans?

It got me thinking, and it got me listening, however, I also found that there are a lot of simplex channels in use that are like local chat groups where hams chat freely without the need of repeaters. I'm not suggesting that if something happened the repeaters would go down, the linking might, but the repeaters probably wouldn't, at least not all at once, but how are our systems and skills? But how many hams could make better use of simplex on a regular basis, or are our signals so bad we have become as dependant on repeaters, as the Health Boards and in fact most people, on their computer networks?

Papakura Radio Club Inc.

Of course HF nets and contesting is all simplex, and a lot of fun too, Like the ILLW events, or Jock White contests, And even when I go out to do POTA *(and lately that's not often enough)* the contacts only count if they are simplex. So I spend a lot of time and energy on getting masts and antenna that can get me out and as high as possible, but are we still proficient at it?



In the USA there is a move to advertise their calling frequency on vehicles, as above, and I have wondered how would such a move work here? I often put out a call on a local repeater while I am travelling, but what about the NZ FM call channel – Would I get any takers ?

Maybe it's worth trying. - So let's try 146.475 sometimes - You never know who you'll meet

But there is a second side to the coin, Hams have an allocation in the 2.4 and 5.6 Ghz band (Wi-Fi bands) or rather just outside them and we can have our own versions of Super Wi-Fi. Its call mesh networking, and while it's been played with already, we really need more takers if we are to build a solid mesh network, it's a fantastic way to learn about TCP-IP networking, and also its radio in an allocated band, and allows us to link our stuff over our own network.

OK so maybe we won't quite have the ham internet, but we can have a kick tail intranet with all the features we can build into it. It's not that expensive, but it will need some time and money, but the returns might be awesome. Ian (ZL1IRC) will be talking on this and demonstrating a full build at the clubrooms after the general meeting.

Part of ham radio is communication. Sure, and we have things like rallies/Cycle races/Fun Runs for the AREC readiness side ... sure, But it's also about trying stuff, and experimenting, and I think I'm finally realising what a more experienced ham was trying to tell me about hot spots or repeaters. It's about building an infrastructure that others can use, not just a connection you have on when you want to use it.

Whether that's listening on the simplex calling frequencies, or connecting to the Mesh (as once packet networks were used) or helping other hams build stations, or.... Whatever.

The best parts of Ham radio are the parts we enjoy, and then sharing it with others.

So what are you going to do, or share that might make the hobby a bit more fun for someone else, because the really strange thing, is the fun we share with other becomes the fun we also get to enjoy

And its fun anyone can enjoy, If they want to

An Arduino based home built simplex repeater project

It's worth thinking about

73 ZL1NUX

9 June 2021	
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CLEAR YOU CALENDAR - THEN CLEAN YOU SHACK

Following the cancellation of the Car Boot sale, we had hoped to hold out into the summer months for a second car boot sale. But – Things have changed – and we're now announcing...

THE MID -WINTER MADNESS EQUIPMENT SALE

SATURDAY JULY 3RD AT THE CLUBROOMS – WELLINGTON PARK 1 GREAT SOUTH ROAD, PAPAKURA DOORS OPEN AT 10:00AM – CLOSE 1PM

FREE ENTRY A CAFETERIA WILL OPERATE BETWEEN 10:00 AND 12:30

As space is very limited, Tables in the clubrooms will only be offered by application, however, boot sales, in the car park will be available to any private sellers, while there is no charge, bookings are required, and each seller will be allocated 1 car park, and must provide their own rain/shade cover. Sales are to be at the read of your vehicle.

PAPAKURA RADIO CLUB WILL BE CLEARING UP A COLLECTION OF EQUIPMENT AND EVERYTHING MUST GO !!! ANYTHING LEFT IS OFF TO E-WASTE

THIS MAY WELL BE THE BEST PRICED SALE OF THE YEAR.

Sellers are to be on site by 9:00 AM for set-up, as the sales area will be closed off to all vehicle traffic after this time.

SO ... GET THAT JUNK INTO THE TRUNK



WAITAKERE SPRINTS 2021

The Papakura Radio Club Inc. is pleased to provide the rules for the Waitakere Sprints 2021 The Sprints will be the same as previously held, the Phone Sprint will be on the last Saturday in July and the CW Sprint will be on the first Saturday in August.

The Sprints are of one-hour duration on 80m, and are open to all licensed amateurs in ZL, VK and Oceania call areas.

Object of the Sprints

The operator's basic goal in the sprints is to make as many contacts as possible, without duplication, during an hour of operation on a single band. Any contact with ZL, VK or Oceania stations on 80m during the contest period can be counted, a station may be claimed once on SSB and/or CW.

Eligibility

The Waitakere Sprints are open to all licensed amateurs anywhere in the ZL, VK and Oceania call Areas. SWL logs will also be welcome.

2021 Contest Periods

Phone 1000 to 1100 UTC, on Saturday 31st July CW 1000 to 1100 UTC, on Saturday 7th August

Frequencies

Phone: 3.550 to 3.700 may be used. CW: 3.500 to 3.550 may be used.

Power

In fairness and consideration to others, radio output power must be restricted to a maximum 100 Watts during the contest.

Contest call

CQ Contest, CQ Sprint or CQ Test ... or whatever gets you contacts!

Exchanges

Minimum exchange for a valid contact will consist of signal report and a serial number, sent and received and the serial numbers which must start at 001 and increment by one for each contact made.

Awards

Certificates will be awarded to the overall winner and to the best operator in each ZL call area and to the best three scores from VK/Oceania.

Shortly after the event an operators 'Participation Certificate' will be posted on the web site and can be downloaded.

Scoring.

All Phone contacts are 1 point All CW contacts are 1 point All logs will be recorded and scored as phone or CW. They will be added for the overall winner.

Logs

A separate log must be submitted for each Sprint and must be clearly marked PHONE or CW. Contest logs must show for each contact:- Date, Time, Callsign of station worked, Signal report and Serial Number received, Signal Report and Serial number sent.

SWL logs must show both Callsigns in the OSO also both Signal Reports and Serial numbers.

Logs are to be in the hands of the Manager. Waitakere Sprint by 1 September.

Sample Log

Date - Time - Station Worked - Report - Serial reced - Report - Serial sent

Date	Time (UTC)	Stationworked	RS(T) reced	Serial reced	RS(T) sent	Serial sent

Postal address:

Manager Waitakere Sprint PO Box 72 397 PAPAKURA 2244

Email is the preferred method of log receipt.

An email confirming receipt of logs will be sent as logs are received. Plain text file named (yourcallPh.txt or yourcallCW.txt) with a tab or space between each column. email logs to...

Closing Date For Logs

No later than 1st September.

Operator Information.

Each log must show the following details. Mode Callsign Name Address **Operating area** (must be shown...Eg. ZL1,ZL2,VK, Oceania) Total Number of contacts claimed.

It is taken that by forwarding your log, you have made the declaration that the operator has abided by the rules and spirit of the contest.

Any entry which is clearly in violation of the rules or spirit of this contest or which contains an excessive number of duplicate contacts (this does not refer to duplicates which have been indicated as such and are not claimed) may be disqualified.

The decision of the Waitakere Sprint Manager in respect of interpretation of these rules, the granting of awards and disgualifications will be final and no correspondence will be entered into.

Rules updated 21st April, 2021.

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GEEKY NEWS

PHYSICISTS UNCOVER SECRETS OF WORLD'S THINNEST SUPERCONDUCTOR

Physicists from across three continents report the first experimental evidence to explain the unusual electronic behavior behind the world's thinnest superconductor, a material with myriad applications because it conducts electricity extremely efficiently. In this case the superconductor is only an atomic layer thick.

The work, led by an MIT professor and a physicist at Brookhaven National Laboratory, was possible thanks to new instrumentation available at only a few facilities in the world. The resulting data could help guide the development of better superconductors. These in turn could transform the fields of medical diagnostics, quantum computing, and energy transport, which all use superconductors.

The subject of the work belongs to an exciting class of superconductors that become superconducting at temperatures an order of magnitude higher than their conventional counterparts, making them easier to use in applications. Conventional superconductors only work at temperatures around 10 Kelvin, or -442 Fahrenheit.



World's Thinnest Superconductor

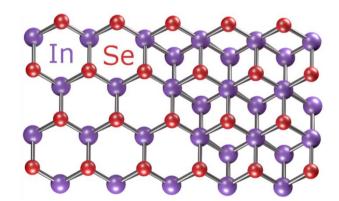
In 2015 scientists discovered a new kind of hightemperature superconductor: a sheet of iron selenide only one atomic layer thick capable of superconducting at 65 Kelvin. In contrast, bulk samples of the same material superconduct at a much lower temperature (8 Kelvin). The

discovery sparked an investigative flurry to decode the secrets of the world's thinnest superconductor.

In a regular metal, electrons behave much like individual people dancing in a room. In a superconducting metal, the electrons move in pairs, like couples at a dance. All these pairs are moving in unison, as if they were part of a quantum choreography, ultimately leading to a kind of "electronic superfluid,"

But what is the interaction, or "glue," that holds these pairs of electrons together? Scientists have known for a long time that in conventional superconductors, that glue is derived from the motion of atoms within a material.

If you look at a solid sitting on a table, it does not appear to be doing anything. However, "a lot is happening at the nanoscale. Inside that material electrons are flying by in all possible directions and the atoms are rattling; they're vibrating." In

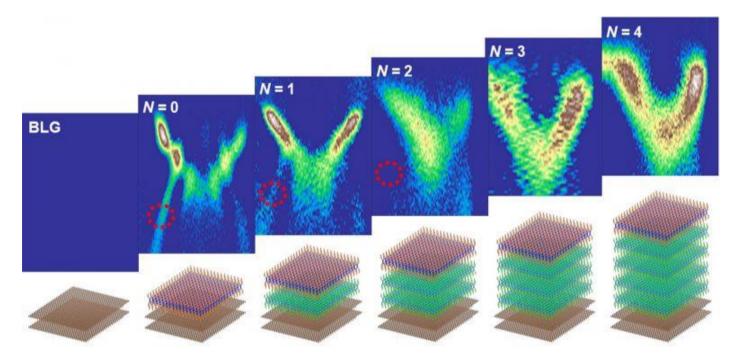


conventional superconductors, the electrons use the energy stored in that atomic motion to pair up.

The glue behind electrons' pairing in high-temperature superconductors is different. Scientists have theorized that this glue is related to a property of electrons called spin (another, more familiar property of electrons is their charge). The spin can be thought of as an elementary magnet. The idea is that in a hightemperature superconductor, electrons can pick up some of the energy from these spins, known as spin excitations. And that energy is the glue they use to pair up.

"The impact of this work is two-fold," says Dr. Thorsten Schmitt, head of the Spectroscopy of Novel Materials Group at the Paul Scherrer Institut in Switzerland. Schmitt was not involved in the work. "On the experimental side, it is an impressive demonstration of the sensitivity of RIXS to the spin excitations in a superconducting material only an atomic layer thick. Furthermore, the [resulting data] are expected to contribute to the understanding of the enhancement of the superconducting transition temperature in such thin superconductors." In other words, the work could lead to even better superconductors.

ACTOR IN A SUPPORTING ROLE: SUBSTRATE EFFECTS ON ATOMICALLY THIN SEMICONDUCTORS



Researchers detected non-negligible interactions between technologically intriguing 2D materials and the substrates that physically support them.

Atomically thin layers are of great technological interest because of potentially useful electronic properties that emerge as the layer thickness approaches the 2D limit. Such materials tend to form weak bonds outside the layer and are thus generally assumed to be unaffected by substrates that provide physical support.

To make further progress, however, scientists must rigorously test this assumption, not only to better understand single-layer physics, but also because the existence of substrate effects raises the possibility of tuning layer properties by tweaking the substrate.

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The results showed that as the substrate thickness increased, a dramatic and systematic variation occurred in the single-layer titanium telluride. An electronic phenomenon known as a charge density wave — a coupled charge and lattice distortion characteristic of single-layer titanium telluride — was suppressed.

"The experimental findings, combined with first-principles theoretical simulations, led to a detailed explanation of the results in terms of the basic quantum mechanical interactions between the single layer and the tunable substrate," said Lin.

Given that the interfacial bonding remained weak, the researchers concluded that the observed changes were correlated with the substrate's transformation from a semiconductor to a semimetal as it increased in thickness.

"This systematic study illustrates the crucial role that substrate interactions play in the physics of ultrathin films," said Lin. "The scientific understanding derived from our work also provides a framework for designing and engineering ultrathin films for useful and enhanced properties."

Sounds like near field effect on an antenna to me. Did we already know this first ?



THE NEW ROLLS ROYCE

A NEW EMPLOYEE WAS IMPRESSED WHEN THE BOSS SHOWED UP WITH A BRAND NEW ROLLS ROYCE.

"THAT IS ONE VERY NICE CAR", HE SAID

"WELL, IF YOU WORK HARD, AND PUT IN THE HOURS AND EFFORT," SAID THE BOSS,

"THEN NEXT YEAR, I CAN BUY ANOTHER ONE. "

And the winner of best supporting Role is ...

A horse walks into a bar and orders a pint. The barkeep says, "You're in here pretty often. Do you think you might be an alcoholic?" The horse replies, "I don't think I am," and vanishes from existence. See, the joke is about Descartes' famous philosophy of 'I think; therefore, I am", but to explain that part before the rest of the joke would be putting Descartes before the horse.

WHY IS IT ?



SEEN OR HEARD AROUND THE SCENES

FLOWERPOT NIGHT

With Winter indoor activities are best, so we had fun with some coax & conduit making flowerpot antennas.



While we got great 2 metre results, the 70cm may still need some "tweaking" and the following week we make a 6 metre one – Just a wee bit bigger



Photos Courtesy, [ZL1RAH]

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SOME TID-BITS FOR THE MAGAZINE

Since Covid lockdowns I have become quite addicted to looking at a range of videos on YouTube. The following links may be useful for hams. Just search for the term in YouTube and the channel should appear in the search result.

TRX Lab – a German radio engineer that gives excellent explanations as to how he repairs various items of equipment e.g. #217 Rescue me I'm a Kenwood. His videos show the whole process of initial functional testing, dismantling and focussed testing followed by repair, reassembly and final functional testing.

Tony Albus – A Dutch electronic enthusiast/ham with a propensity to buy test equipment and stuff then demo it in videos.

OH8STN – An American living in Finland who likes heading out into the snow to test QRP rigs so he builds battery packs and other stuff as well.

W2AEW – Some good topics covered with explanations that are easy to understand e.g. repair videos, technical explanations, operating hints.

EEVblog – An Aussie electronics/electrical engineer who has been around for over 10 years doing videos on diverse topics including how to solder.

Radio Prepper – A French amateur who used to live in the USA who is in to CW and QRP with numerous little projects with antennas and baluns.

LifeIsTooShortForQRP – Another Dutch ham living in the USA who likes to collect and test various transceivers, interesting to watch.

David (ZL1MR)



TIME TO WARM UP YOUR STRAIGHT KEY

As the winter solstice approaches, that means it's time once again for Straight Key Night - Winter Edition.

One of the nice things about the winter edition is that it's an hour earlier than the summer event, so you get better propagation - and you don't have to stay up late!



Straight Key Night is a casual CW contest, running for just one hour (8-9pm) on Sunday 13 June.

Here are some tips for newcomers:

- You need to send and receive the full SKN exchange, which includes things like "type of key" and "power level".
- To keep things interesting, we follow the "QSY Rule" it's easy once you get used to it.

Please see the full details, including special log sheets and summary sheets, at maritimeradio.org/skn.

If you have questions, please contact ZL1NZ at <u>skn@maritimeradio.org</u>.

--

Neil Sanderson ZL1NZ New Zealand Straight Key Night

Address radiograms to ZL1NZ Auckland QSX 3535.0 kHz at 2100 NZT (Mon-Fri)

INTERNATIONAL LIGHTHOUSE LIGHTSHIP WEEKEND - ILLW

Normally held on the 3rd full weekend in August

Next ILLW: 00.01 UTC 21st August to 24.00 UTC 22nd August 2021 (48 hours)

For some reason or other August seems to have become the international weekend for lighthouses. Countries all over the world have become involved in one for or another of lighthouse activity.

The ILLW usually takes place on the 3rd full weekend in August each year and attracts over 500 lighthouse entries located in over 40 countries. It is one of the most popular international amateur radio events in existence probably because there are very few rules and it is not the usual contest type event. It is also free and there are no prizes for contacting large numbers of other stations. There is little doubt that the month of August has become "Lighthouse Month" due largely to the popularity and growth of the ILLW.

If you thinking of activating a lighthouse, It's time to start the planning

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60M SUB LICENCE - IT'S BACK, BUT DIFFERENT

NZART is pleased to announce that negotiations with RSM have been successful in obtaining a licence to allow operation for all New Zealand amateur operators to use in the 60 m (5 MHz) band using the WRC-15 allocation.

Thanks again Bob Vernall ZL2CA for all your work in this area.

Maximum allowable power is 15 W EIRP (effective isotropic radiated power).

Amateurs are secondary users in this band. These frequencies are, or may be, allocated for use by other services. Amateur operators must accept interference from, and must not cause interference to, such other services.

As with the old 60m trial, all those who wish to operate on the band **must complete and sign** the <u>new sub</u> <u>licence</u> which sets out the terms of operation before you can operate. For a full list of FAQ's please <u>click</u> <u>here</u>

Due to the new licence, NZART cannot grandfather those under the old sub-licence and ALL users of this band must complete the new sub-licence application.

Once completed, please scan and email to NZART HQ <u>nzart@nzart.org.nz</u>. Once acknowledged by return email, you can begin operation.

Also attached are the FAQs (Frequently Asked Questions) which you are strongly encouraged to read to ensure you stay within the terms of your sub-licence.

The NZART licence (and your sub-licence) is for a twelve month period to allow RSM to assess if there are any interference issues.

If not, then NZART will negotiate with RSM to having the 60 m (5 MHz) band allocation added to the GURL (General User Radio Licence). If this negotiation is successful then the need for the sub-licence will not be required in the future.



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41st ALARA CONTEST 2021

ELIGIBILITY: All licensed operators throughout the world are invited to participate.

Scout and Girl Guide groups are encouraged to participate using their Club's equipment and callsign.

OBJECT: Participation: YLs work everyone, OMs work YLs only.

CONTEST: Combined phone and CW runs over 24 hours:

STARTS:Saturday 28th August 2021 at 0600 hours UTCENDS:Sunday 29th August 2021 at 0559 hours UTC

SUGGESTED FREQUENCIES: All HF Bands except 160 m & WARC Bands. Contacts made on Echolink will also be accepted.

OPERATION:

- YL's operating with their own callsigns
- YL's from Scout and Girl Guides groups using their Club's equipment/callsign with a licensed Amateur present.
- Second operators. If YL is operating as a 2nd operator, her husband/partner CANNOT participate in the contest.
- Every individual phone or CW contact may be counted.
- There must be an interval of greater than 1 hour between contacts with any one station on any one band and in the same mode.
- All contacts must be made in accordance with operator and station licence regulations.

PROCEDURE:	Phone:	call "CQ ALARA CONTEST"
	CW:	YLs call "CQ TEST ALARA"
		OMs call "CQ YL"

EXCHANGES:ALARA member:RS or RST, serial no. starting at 001, ALARA member, name.YL non-member, OM:RS or RST, serial no. starting at 001, name and whether YL or OM.OMs work YLs only.RS or RST, serial no. starting at 001, name and whether YL or OM.

SCORING:	Phone:	5 points for ALARA member logged					
		4 points for YL non-member logged or Scout and Guide groups (YL's)					
		3 points for OM logged including from Scout groups (OM's)					
	CW:	All contacts made on CW count for double points					
	OM or Scout group (OM's):						
		5 points for ALARA member logged					
		4 points for YL non-member logged or Scout and Guide groups (YL's)					

LOGS:

- Single log entry. Logs must show date, UTC time, band, mode, call sign worked, report and serial number sent, report and serial number received, first name of operator of station worked and points claimed.
- Scout and Girl Guide participants should also include their patrol name.
- Please note in mode if contact is on Echolink.
- Paper logs or electronic logs are both welcome.
- LOGS MUST show full name, call sign and address of operator, and show final score (points claimed).
- ELECTRONIC LOGS MUST BE IN A FORMAT WHICH CAN BE PRINTED BY MICROSOFT WORD OR MICROSOFT EXCEL.
- Logs must be legible. No logs will be returned. Decision of the Contest Manager will be final, and no correspondence will be entered into.

Logs must be received by the Contest Manager by: 30TH SEPTEMBER, 2021.

CONTEST MANAGER:	Mrs Sue Southcott PO Box 708 Goolwa SA 5214	VK5AYL
	AUSTRALIA	OR: alaracontest@wia.org.au
Certificates will be award Top score YL overall	ded for the following:	Top score Australian YL CW
Top score YL phone only		Top score DX YL CW

Top score YL Echolink

Top score OM in each continent & VK call area

Top score DX YL Top score ALARA member in each country & VK call area TOP SCORE vk yl Foundation Licence Holder

SOME NETS - FOR WHEN YOU ARE LOOKING FOR COMPANY

Day	Time (Local)	Freq (MHz)	Group
Sunday	08:00	3.750	Southern Net
Sunday	09:00	3.700	Bch 10. Franklin.
	09:00	3.755	Bch 65. Papakura.
	16:00	7.125	SPAM Net (AM Mode)
	19:00	146.625	YL Net
	20:00	3.710	Bch 42. Titahi Bay
	21:30	3.595	Duran WIA Net.
	21.50	5.595	
Monday	19:30	3.757	Bch 12. Hamilton
	20.00	3.540	CW Practice Net
updated	20:00	3.605	Br 80. Hibiscus Coast
updated	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
Maria I	20.00	2.000	Cost Not
Wednesday	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
Thursday	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
		0.000	
Friday	20:00	3.850	SPAM (AM Mode)
	20:30	3.650	W.S.R.C.
	20:30	3.560	Digital Modes Net
<u></u>	10.20	20.520	
Saturday	10:30	28.530	10-10 Down Under
	19:30	3.650	Christian Fellowship ???
	20:00 20:30	3.760 3.600	Ch 62. Reefton/Buller
	20:30	3.000	
Daily or Other	07:30	3.696	ZL2OA
0. 00.00	08:30	3.730	ZL3RP
	15:00	14.300	Pacific Seafarers
	17:30	3.760	Home Brew
	17:30	14.183	ANZA DX Net
	18:00	7.115	VK70B
	19:30	3.720	ZL1MO
		3.766	ZL3LE
	18:30	5.700	
	18:30 08:30/20:00		ZL3RP
	18:30 08:30/20:00 20:30	3.730	ZL3RP
	08:30/20:00		

Also: Calling Frequencies:	Daily	Sunset-Sunrise	3580 USB	NZ FSQCall
Courtesy of Murray ZL1BPU	Daily	Sunrise-Sunset	7105 USB	NZ FSQCall
	Daily	24/7	7104 USB	International FSQCall

I'm told the last of these sees some amazing DX, especially around sunset.

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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: <u>http://www.qsl.net/zl1vk</u> Club email: zl1vk.club@gmail.com

Elected Officers				
President	ZL1NUX	Gavin Denby	Ph	021 1046946
Vice President	ZL1BNQ	Richard Gamble	Ph 09 5371238	021 729270
Secretary	ZL1AOX	Ian Ashley	Ph 09 2981810	021 1981810
Treasurer	ZL1MR	David Wilkins	Ph 09 2999346	021 1857903
Committee	ZL1RJS	Rob Stokes	Ph	021 307005
	ZL1IRC	Ian Clifford	Ph	021 8248400
	ZL1ASN	Rolly Adams	Ph 09 2966107	021 0427760
	ZL1DK	David Karrasch	Ph 09 296 8264	021 560180
	ZL1RIC	Ricky Hodge		021 666421
AREC Section Leader	ZL1BNQ	Richard Gamble	Ph 09 5371238	021 729270
CD Liaison	ZL1AOX	Ian Ashley	Ph 09 2981810	021 1981810
Newsletter Editor	ZL1NUX	Gavin Denby	Ph 09 299 3415	021 459 192
Hall Custodian	ZL1AOX	Ian Ashley	Ph 09 2981810	021 1981810
Newsletter.	Contact: zllr	nux@outlook.com		

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

Meetings

Flocted Officers

General Meetings are held at the Club rooms on the 1st Wednesday of each month, starting at 7.30pm. 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 3rd Wednesday of each month at 7.30pm, unless advised.

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

AREC Meetings are on the 5th Wednesday night, also starting at 7.30pm AGM: Held in November

Subscription: Full membership and newsletter\$25.00Family Membership and newsletter\$40.00Bank Account number: 03-0399-0019896-00\$40.00

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

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

3.755 MHz Sunday at 9.00am. Controller ZL1BNQ Richard Gamble. (Linked to 146.675 & 438.775)

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