



Franklin Amateur Radio Club Inc NZART Branch 10

VOLUME 28 ISSUE 3

## Committee

President: Mike Jane ZL1UOM

Vice President: Gary Landon ZL1WGL

Secretary: Tom McDonald ZL1TO Ph. 09 238 858

with: Ted Doell ZL1BQA, Durlene Griffin ZL1ULK, Peter Henderson ZL1PJH and David McNeill ZL1DW.

Club examiners: Ian ZL1PZ and Tom ZL1TO.

Web page: [www.qsl.net/zl1sa/](http://www.qsl.net/zl1sa/)

**MEETINGS:** The club meets on the third Tuesday each month, in the clubrooms, Stadium Drive Pukekohe, 7.30 pm. Visitors welcome.

The committee meets on the first Tuesday of each month (excepting January) at 7.30 pm in the clubrooms.

Subscriptions \$20.00, family \$30.00.

Nets every Sunday at 9.00 am on 3.700 MHz and 9.30 am on the 146.900 MHz repeater. 2 metre frequencies are 145.775 MHz, then 146.625 MHz, and 146.900 simplex if repeaters off air.

Newsletter: Editor Tom ZL1TO [tom.mcdonald@xtra.co.nz](mailto:tom.mcdonald@xtra.co.nz)

A copy is sent to members and clubs in the Auckland area. Sent free of obligation by e-mail to anyone interested.

## Jock White Field Days

This contest requires radio clubs to set up radio stations with freshly erected antennas in an off-grid, temporary accommodation situation. We then make as many contacts with other clubs and home stations on 40 m and 80 m as possible over an 18 hour operation.

This year we were at a farm on Attewell Road, Puni. Rain on Saturday 22 February drenched the team as they set up antennas.

The team made a total 551 contacts with 46 multipliers. This is unlikely to see us right at the top of the Hastings Trophy contestants, but is not a disgrace either.



Above: Four of our operators Mike ZL1UOM, Durlene ZL1ULK, Ian ZL1PZ and Gary ZL1WGL. The team also included Peter ZL1PJH and David ZL1DW.

Below: Farmyard toys help to erect the 40 m antenna pole.



## Club Notice Board

### General meeting, Tuesday 17 March

The meeting will start with a session of questions and answers directed at assisting the members who are newly on air. After formal business a discussion on baluns, wire dipoles and the Zep will be led by Ted ZL1BQA.

### Te Puke Amateur Radio Club Inc.

Branch 53 of NZART "MARKET DAY"

Saturday March 28th, 2020

Paengaroa Community Hall. 4 Old Coach Road, Paengaroa

Open for Vendors 6.30am. Sale time 10.00am.

\$20.00 for a 1.8 Table, \$25.00 on the day.

\$12.00 for ½ a Table, \$15.00 on the day.

WARO meets at 10.30am

Overnight Parking for Motorhomes

Hot Breakfast from 07.30am (\$10.00).

1 Sausage, 2 Rashers Bacon, 2 Eggs, ½ Tomato, 2 Pieces Toast, Tea or Coffee.

Also available Sandwiches, Cakes, Tea / Coffee, all at reasonable prices.

For further information & Table Bookings, Contact Syd Rowe ZL1LWR Phone (07) 533 1029, Mobile: 0272488664, Email [sydrowe@xtra.co.nz](mailto:sydrowe@xtra.co.nz)

Postal Address: 223 State Highway 33, RD 9, Te Puke 3189.



**Minutes** of Franklin Amateur Radio Club (Inc) General Meeting held in the Clubrooms Stadium Drive Pukekohe, 18 February 2020.

Chairman Mike ZL1UOM opened the meeting at 1930 hours.

Attendance: ZL1UOM, ZL1BQA ZL1PZ, ZL1BBZ, ZL1WGL, ZL1DW, ZL1ULK, ZL1TZP, David Roughton.

Apologies: ZL1TO, ZL1LL, ZL1PJH, ZL1GAC

Minutes: The minutes of the January meeting were approved as a true record. ZL1UOM / ZL1DW

Correspondence: February newsletters from branches 03, 29, 65, 66, 80, 86 as described in QUA.

Notice of AREC meeting, Hazel Avenue, Thursday 20 February.

Reminder to apply to Franklin Positive Ageing by 30 April.

Report on correspondence received. ZL1WGL / ZL1ULK

#### Finance.

Expenditure: Reimbursement \$88.73 paid.

Income: Nil

The finance report was received. ZL1WGL / ZL1UOM

#### Reports

AREC: Bombay fun run on Sunday 15 March. ZL1PJH, ZL1ULK, ZL1PZ, and ZL1BBZ are available.



**Minutes** of Franklin Amateur Radio Club (Inc) Committee Meeting held in the Clubrooms Stadium Drive Pukekohe on 3 March 2020

Chairman Mike ZL1UOM opened the meeting at 1933 hours.

Attendance: ZL1UOM, ZL1TO, ZL1BQA, ZL1PJH, ZL1WGL, ZL1DW, ZL1ULK.

A special welcome to David ZL1DW, new to the committee.

Minutes: The minutes of the February meeting were approved as a true record.

Arising: One member could not understand how digital signals below the noise level could possibly work.

Correspondence: February newsletters from Branch 13/25. March newsletters from branches 65, 80, 86.

Minutes of AREC meeting, Thursday 20 February.

Reminder to apply for site at Franklin Positive Ageing. by 30 April. (To be actioned) It was decided that we should get an application in for our usual position.

From Auckland Council (Coral Timmins) re fence.

Report on correspondence received. ZL1BQA / ZL1PJH

#### Finance.

Expenditure: The VHF cheque for \$200 has been presented and Contact Energy \$46.03 presented.

The paint job will just about exhaust our on-demand funds.

Power bill paid from FARC funds 27 February \$54.71

The finance report received, accounts to be paid.

ZL1WGL / ZL1PJH

St Patrick Parade. Request for volunteers was first made earlier this week. ZL1TO and ZL1LL available.

Regional AREC meeting at VHF Group clubhouse 7.30 pm Thursday 20 February.

#### General business:

Jock White Field Days. Generator starts easily and runs well. Oil topped up. Log sheets, rules and summary sheets have been printed and are on front table. Antennas, poles, rigs, coax, mains extension cables, mains filter to be collected Saturday morning. The venue will be Gary's farm, Attewell Road, Puni. Volunteers are David ZL1DW, Gary ZL1WGL, Peter ZL1PJH (Sunday), Ian ZL1PZ (for a few hours), ZL1ULK. Meet 10am 22 February at the clubhouse to collect gear.

Clubhouse repaint. Gary ZL1WGL explained the quote.

Meeting adjourned and all members went outside to have a good look at the condition of the paintwork and roof. After considerable discussion it was decided that the walls should be painted and the roof left for this year and that perhaps consideration should be given to having the roof replaced in the future. Colour scheme - walls Double Concrete, baseboards Half Stack. Gary ZL1WGL to purchase required paint and arrange with the contractors. ZL1WGL / ZL1PZ Moved that we appoint ZL1DW to the committee. ZL1WGL / ZL1BBZ

The meeting closed at 2050 hours followed by a talk and demonstration of digital below the noise level communications and closed with supper.

#### Reports

HF Field Days: Got soaked setting up on Saturday. Did all but one early shift on Sunday. Cup full of oil got motor going again on Sunday morning. Excellent weekend. ZL1PZ stayed about 3 hours. ZL1WGL did not need to do any of the night shifts. Antennas worked well. No bugs.

AREC: Bombay fun run on Sunday 15 March. Word due tomorrow on which stations will be used.

St Patrick Parade, Queen St, 14 March.

Regional AREC meeting, minutes circulated.

Petrol vouchers for Tour de Ranges have been received on Saturday 29 February. ZL1PJH, ZL1PZ, ZL1ULK, ZL1TO \$20 each and ZL1TCL \$10.

Clubhouse repaint: Gary ZL1WGL reported workers are slow, but doing a very good job. Colours are quite smart. As the job is not yet finished an account will come to the next meeting. ZL1TZP used a drone to photograph the roof. There is lots of lichen and moss. It should come right with a "spray and walk away".

A Panuku forum was held in Stevenson Room of Franklin The Centre on Wednesday 25 February. Tom ZL1TO raised the matter of the radio club future in the light of the Unlock Pukekohe programme. Tom said we do see an advantage in retaining the temporary fence, but a permanent fence ought to come from the skate park budget. Our meeting requested that the Secretary reply according to notes taken tonight

Next meeting – Ted ZL1BQA Powerpoint on baluns – or wire antennas, short dipoles, and the Zep.

The meeting closed at 2150 hours

# NEWSLETTERS FROM OTHER BRANCHES

13/25. Club moves from DStar to DMR on Mount Threave from 29 January. Dummy load kitset. Story of a country Line Man. A 3D LED cube.

65. 4 March general meeting with report on car boot sale and field days. 15 March Bombay fun run. 28 March Te Puke sale. Three new members Mike ZL4MDE, William ZL1RVN, Jess ZL1MTI. 2 May Papakura StreetFEST. Reminder of RSM rules. Trade in unrestricted two way radios. Protecting against novel corona virus.

80. 11 March AGM. Field day a success – shifted from Navy to club site – changed from diesel to petrol generator. Sale and purchase advice from ALO. 28 March Te Puke market day.

86. Field day report. Collected and transported Collins transmitter from estate of Ron Allen ZL1BYW to Musick Point. New examiners. Amateurs reactivating Radio Australia antennas at Shepparton.

For the Shaw Savill ship Bombay which left London on November 26, 1864, any form of communication would have been critical. Captain G Sellars and his crew carried 400 settlers bound for Auckland, New Zealand but were almost immediately driven back to port by hostile winds in the English Channel. Starting again a few days later, the ship enjoyed a fair run until ten days out from Auckland when a series of severe squalls took away the main mast and threatened to remove the mizzen and all remaining rigging. Doubtless, Captain Sellars looked up “I need immediate assistance” in Captain Marryat’s code and began to scan the horizon anxiously.

He was in luck. The liner Constance appeared, on her way from Sydney to Auckland. Her skipper Captain Elliott no doubt consulted his copy of Marryat’s and offered a tow. Although at 351 tons Constance was only a third the size of Bombay, the tow held and slow but good progress was made. While the tow was underway, the crew and passengers of Bombay did their best to help rig up jury gear and were able to get some sail on their vessel but progress remained minimal at best.

Next day, the frigate H.M.S Curacoa appeared, under the command of Commodore Wiseman. Curacoa was the Royal Navy establishment ship tasked with supporting British troops during the land wars. She was also much more powerful with a 1500 horsepower steam engine and a screw propeller. As soon as he saw the frigate, Captain Elliott would have thumbed his Marryat’s for “can you help Bombay?” and displayed this signal on his masthead.

## Amateur Ethics

A recent VHF Group net received information from a 56 page document by ON4UN and ON4WW. The full document is well worth reading.

## Captain Marryat’s Signal Code

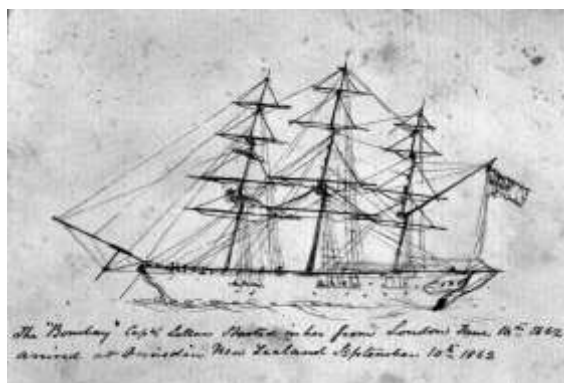
[Contributed by Peter ZL1PJH]

How did ships communicate before the invention of radio? That’s not such an important question for us today but it must have been critical to the hundreds of people on ships bound for new colonies in the 19th century.

The answer is Captain Frederick Marryat’s *A Code of Signals for the Merchant Service* published in 1817. This was a system of flag combinations used by mercantile ships right through to the end of the nineteenth century. Captain Marryat used a four-digit set of numbers which listed important naval and merchant vessel names, and also lighthouses, ports, headlands, rocks, shoals, reefs, etc. Flying the Rendezvous (RE) flag (indicating Lighthouses, Ports, etc.) over the numerals 1537 indicated that the ship’s homeport was Amsterdam. Flying Rendezvous under the number 1537 indicated that the ship was sailing from Amsterdam, and flying it at some other mast-head indicated that she was bound for that port. The system also included handy sentences. For example, “4576” meant “I mean to keep sail set, and carry on all night, as I am anxious to get into port.”

And so it was that Bombay was towed into Auckland Harbour on March 18th 1865, battered but intact. The 400 new settlers, mostly in family groups, were then able to make their way to Williamson’s Clearing at the southern end of Great South Road and begin to farm the ten-acre lots that awaited them. Once settled, they renamed the area Bombay in honour of the ship that had brought them safely to their new country. We still use that name for the area today.

Captain Marryat’s Code of Signals for the Merchant Service did not survive, although it had done good service while needed. In February 1902, the SS Philadelphia, an American liner steamed westward across the Atlantic to test Marryat’s replacement: radio. It was on this voyage that Guglielmo Marconi and his colleagues fully proved radio worked well at distances greater than 3000 kilometres. They also discovered, unexpectedly, that messages sent at night travelled much farther than during the day, something that proved spectacularly useful when Titanic brushed up against an iceberg in the middle of the night only a few years later.



## Unrestricted Two Way Radios – Frequently Asked Questions

By Don Wallace, NZART ALO [Infoline 407, 15 March]

We get a number of questions from members about the status of what RSM (Radio Spectrum Management) calls “Unrestricted Two Way Radios” – such as those made by Baofeng, Pofung, Wouxun etc. This article is aimed at answering the most common of these questions.

**What is the problem?** In 2018 RSM found that a number of people were illegally using these radios and which were causing interference to frequencies used by emergency services and commercial users such as the Police, Forestry and Railways.

**What was RSM’s proposed solution?** In their August 2018 Business Update, RSM stated that their Compliance team were working on a Prohibition Notice to limit the import and illegal use of a range of low-end two-way radios. This would have meant that no one (including Amateurs) would be allowed to own or use these devices.

**Did NZART Support This Prohibition?** No - in fact the opposite was true. NZART recognises that these radios offer a cost-effective way for new amateurs to get on the air and worked with RSM to come up with a compromise solution that would allow Amateurs to continue to use these devices – provided they followed a set of rules.

**What Are These Rules?** The rules are set out in the Prohibition notice (see <https://gazette.govt.nz/notice/id/2018-go4836>

or <https://tinyurl.com/y7hahuse> ) but can be summarised as follows: - The radios are only allowed to be owned and used by licensed amateurs - The radios may not be used outside the Amateur bands; and - If you want to buy or sell a radio, you have to fill out some paperwork.

**Are These Rules Over-Restrictive?** Not really – amateurs are fortunate in New Zealand as we have very few restrictions on what we can build and use. In some other countries in our region, radios have to be type approved and special permission is required if you want to build your own equipment.

**What About Non-Amateurs?** Non-Amateurs are not allowed to own or use these radios - only those who hold an amateur licence .

**What About Other Frequencies I Am Allowed To Use** (e.g. Coastguard channels, or AREC frequencies outside the Amateur bands)? You are not allowed to use these radios on frequencies outside the Amateur allocations. All radios used outside the Amateur bands have to be type approved and these radios are not approved and most would not meet the technical specifications for type approval. Further, if RSM discovers that a radio has been programmed for frequencies outside the Amateur bands, even if owned by an Amateur, the radio could be seized and/or the user prosecuted.

**What about if I want to buy or sell one of these radios?** No matter how you intend to buy or sell your radio (e.g. on TradeMe, at a junk sale, privately etc.) you need to have a Licence to Supply.

**How hard is the paperwork?** Not hard at all – all you need to do is follow the instructions on the RSM website .

**Do these rules affect Amateur Transceivers from Icom, Kenwood, Yaesu, etc?** These manufacturers amateur transceivers are designed to be used only on the Amateur bands and are not affected by the prohibition notice. However, if you use them on frequencies outside the Amateur bands, you could have your radio seized and/or be prosecuted by RSM. As amateurs we must comply with the rules of the Prohibition Notice or RSM have indicated that this exemption will be removed for amateurs, and opportunity to own and operate these transceivers will be lost.

## Paint scheme

At right, for posterity, is the formula of the new clubhouse colours.



NZART

It's not them

It's us