



Franklin Amateur Radio Club Inc NZART Branch 10

President: Mike Jane ZL1UOM
 Vice President: Gary Landon ZL1WGL
 Secretary: Tom McDonald ZL1TO Ph. 09 238 8580.
 25 John St, Pukekohe 2120 E-mail zl1to@nzart.org.nz
 Committee: Ted Doell ZL1BQA, Durlene Griffin ZL1ULK
 Club examiners: Ian ZL1PZ and Tom ZL1TO.

MEETINGS: The club meets on the third Tuesday each month, in the clubrooms, Stadium Drive Pukekohe at 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
 A copy is sent to members and clubs in the Auckland area. Sent free of obligation by e-mail to anyone interested.

Tour de Ranges

This cycle event took place on 15 January. As cyclists prefer an early start for summer events, this made for an even earlier start for the radio volunteers from several Auckland area branches of AREC. The longer event was shortened to 100 km, and the shorter event to Ness Valley Road and return remained at 30 km.

The storm damage to coastal roads between Kaiaua and Whatipu resulted in the 100 km event being made into a there and back path between Clevedon and Mangatawhiri.

Two of the Franklin stations had to be withdrawn due to medical events, leaving just Ian ZL1PZ at Lyons Road and Tom ZL1TO at McNicol Road.

There were no significant incidents on the cycle route, and all volunteers were able to get moving homeward before lunch.

The photographs below were all taken at McNicol Road. Notice that the cycles are observing normal road rules, and not taking a short cut out to their right, where Kawakawa Bay Road leads to the next intersection, Ness Valley Road.

Right: Riders still bunched, two kilometres after the start.



Left: Operating position of ZL1TO at the junction of McNicol Road and Kawakawa Bay Road

Club Notice Board

General Meeting, Tuesday 20 February

There will be further discussion on HF Field Days. Committee matters will need to be ratified.

Bruce ZL1TDH will give a lesson on how to use the new fire extinguishers.

Jock White Field Days 24-25 February

Members who are available to assist the Club's effort still have an opportunity to join the team. The venue and choice of antennas will depend on the venue which itself depends on the state of the weather.

St Patrick Day Parade, Saturday 17 March

There is a possibility amateur operators will be required

Bombay Fun Run, Sunday 18 March

Several volunteers are required.

Below: First aid vehicle fitted with mobile amateur radio.





Minutes of Franklin Amateur Radio Club (Inc) General Meeting held in the Clubrooms Stadium Drive Pukekohe on 16 January 2018

Chairman Mike ZL1UOM opened the meeting at 1932 hours with seasons greetings to all.

Attendance: ZL1UOM, ZL1TO, ZL1PZ, ZL1GAC, ZL1TDH, Peter Henderson, ZL1WGL, ZL1LL.

Apologies: ZL1ULK, ZL1BBZ, ZL1BQA.

The minutes of the December meeting were approved as a true record. ZL1WGL / ZL1TO

Finance

Received: Internet payment of three subscriptions. Cash subscriptions from another five, and one donation.

A bill to reimburse water volumetric charge of \$113.96 has been sent by email to JStone Skateparks. A copy of that correspondence was sent to Shiva Dubey of Auckland Council along with a scanned copy of the Wattercare bill we received in December.

Payments: Insurance FMG \$614.88

Contact Energy \$46.31 and \$34.30 Watercare \$113.96

The term deposit was increased to \$21000. Interest payment will have been \$682.13 The interest rate for the new term, 1 year, is 3.5%

The finance report was received ZL1TO / ZL1GAC

Reports

AREC: Our volunteers for the Tour de Ranges on Saturday 13 January were Tom ZL1TO and Ian ZL1PZ. There were one or two minor incidents, with an ambulance called for one crash.

General Business

Jock White Memorial Field Days 24-25 February: Operating hours will be 3 pm to midnight on Saturday and 6 am to 3 pm on Sunday. We are the current holders of the Hastings Trophy Mike ZL1UOM has confirmed with the property owner that we may use the airfield at the end of Douglas Road. Gary ZL1WGL would bring his caravan provided the grass slope approaching the runway is not too wet. A show of hands indicated the team could comprise Peter Henderson, Gary ZL1WGL, Tom ZL1TO, Mike ZL1UOM, Cliff ZL1RP. A back up location to the airfield is Gary's farm on Attewell Road.

Fire extinguishers and Electrical::

The record of discussion is on page 3, this edition of QUA. Do upgrade of switch board and extinguishers as quoted. ZL1TDH / ZL1WGL

The treasurer noted that these costs would give us a two year payback period due to the saving on insurance premiums between CMIS and FMG.

Committee Meeting: The first Tuesday in February is Waitangi Day 6 February. Several committee members will be unavailable early February. Any decisions needed will be made at the February general meeting.

The meeting closed at 2059 hours.



Committee

There was no committee meeting in February.

Event. Bulletin board getting very little use. Henry ZL1AAN life member. Further plans for Space Teddy. Experiences with weather fax.

86. Next meeting 11 February, perhaps with talk by Lester ZL4PO. Articles from Branch 28 on scammer targeting licence holders and HF antenna for small sections. Historic QSL cards. Tasman Sea - chart for aero radio position fixing. More on the Musick Point clock. Infoline special No 55 on 60 m limited operation.

From the Editor

My apology for the very late appearance of the February newsletter. My weekends have been given over to other interests – first in Whanganui, then Paeroa, and most recently Napier. Much as I may have intended to spend time on the newsletter that has not worked out while having fun at other things.

There is an article from Steve ZL1TWR waiting for next month's edition. Otherwise the folder of news items is empty of member's contributions!

Several items have not been thoroughly checked for accuracy. In particular the item on *Humanity Star* has not been cross checked with *Heavens Above* or one other of the tracking programs. Let me know about any errors. You may have seen Peter Beck from Rocket Lab on TV3 on Monday 19th. His predictions for visible passes in Auckland do not tie in closely with the predictions posted in QUA.

NEWSLETTERS FROM
OTHER BRANCHES

02. Cover photo -W3AO Main Operating Tent ARRL Field Days 2010. Kosovo, Z6, was added to the DXCC list on 21 January. Secondary use for ZL Hams on 60 metres. Te Puke sale 3 March. Bouvet Dxpedition, 3Y0Z cancelled due to prolonged bad weather. Programme for Hawkes Bay Hamfest, 7 April 2018.

29. To operate field days from George Gair Lookout. Peter ZL1XA to speak on 'Getting started in Contesting' 4 February. !46.700 MHz repeater repaired - it had a faulty 9 volt regulator in VCO and the power amplifier driver transistor had failed. Four assisted Tour de Ranges AREC

Working bee at Pukekawa

3

On our previous visit to dismantle the station of Hermann ZL1DYC we had been unable to take the telescopic tilt over mast down to a transportable size.

A small group, Mike ZL1UOM and friend Geoff, Ian ZL1PZ and Tom ZL1TO had a further session at Brewster Road on 29 January.

The outer tube was cut in such a way that it can be reinstated with a steel pipe sleeve and is now at the clubhouse.

A further collection of aluminium poles has also been uplifted, and part rolls of coax cable have also been gathered.

The club gives its thanks to Hermann's daughter, who has been instrumental in fulfilling Hermann's wish that the club should benefit from his radio equipment.

Below Mike's trailer with mast on board negotiates the Tuakau Bridge



Talk to Lions Club

Gary Collins ZL1GAC gave a talk to his local Pukekohe Lions on Wednesday 7 February.

The Lions became second operators for several contacts on the Bombay 2 metre repeater during the evening.

Scammer targets licence holders on social media

RSM has been made aware that a scammer is using a Facebook account claiming to work for Radio Spectrum Management and asking for personal information from licence holders and radio users. Radio Spectrum Management would never contact radio users or licence holders on social media asking for their personal and financial details, IRD numbers or password. In this case, personal information and meetings have been requested. If you think you have encountered this scam please use the Scamwatch portal on the Consumer Protection website to submit a report or call 0508 RSM INFO (0508 776 463).

NZART

It's not them.

Its us.

Clubhouse matters

Fire extinguishers: Bruce ZL1TDH organised a visit by Counties Firewatch. A recommendation and quote has been obtained for a 2 kg carbon dioxide extinguisher in the kitchen and a 2.5 kg foam extinguisher inside the meeting room near the double doors. The extinguishers should be tested every year, with a hydraulic test every 5 years.

Electrical: Bruce ZL1TDH reported that the inspection was done by Peter Hinton on Friday 12 January. Our building passed in the commercial category. It was suggested that we might upgrade the switchboard – but as the building is commercial, change the porcelain fuses, and main switch to circuit breakers. The main fuse would be replaced with a 32 amp circuit breaker. The cost of parts would be around \$250. Bruce's estimate to replace the ceiling batten holders and fluorescent lamps and all light switches would be \$1190. Members preferred that option should be deferred.

Questions asked were "If the building burnt down – would Council let us rebuild on this site? Would they let us move in a used prefab? Would a garage style building, lined and with kitchen, toilet and shack of similar size and proper aluminium joinery be acceptable?"

It was noted that risks for the source of fire would include – cigarette butt under the floor, microwave oven, paper falling into wall heaters, loosening cables in switches. Members were made aware of the risks.

60 m Limited operation [from Infoline Special 55]

NZART is pleased to announce that it has negotiated with RSM and the NZ Defence Force to obtain a licence to allow limited operation by ZL amateur operators on 60 m on a trial basis.

The purpose of the trial is for RSM, NZART and primary users to investigate the ability for the amateur radio operators to operate on the frequencies of operation on a secondary basis without causing interference to primary users.

As the licence is held by NZART and the GURL which covers amateur bands does not include 60 m, those who wish to operate on the band must complete and sign the attached a sub-licence with NZART which sets out the terms of operation before they can operate.

This is then to be scanned and emailed to Debby at Headquarters (nzart@nzart.org). Once she acknowledges receipt you can begin operation.

Operation centres on 5353 kHz and 5362 - 5364 kHz with a maximum output of 10 dBW e.i.r.p.

Also set out below are some FAQs which we strongly suggest you read before you start to ensure you stay within the rules.

We hope you enjoy these new privileges.

60 m Frequently asked questions

Q: Why do I need a Sub-Licence when I can operate on the Amateur bands already?

The GURL which covers the amateur bands does not include 60 m so Amateurs have no right to operate there (despite WRC-15 allocating an amateur band in that region). NZART has negotiated

negotiated with RSM to obtain a licence to allow limited operation on 60 m as a trial. Accordingly a Sub-Licence from NZART is required for you to operate legally.

Q: Why is this a trial when we were given full access to the band at WRC-15?

Despite a worldwide amateur allocation being made on a secondary basis, access is subject to the approval of the local regulatory authorities in each country. In ZL RSM has said that access will be subject to the approval of the primary user which in this case is the NZ Defence Force. The NZDF have asked for a trial so they can monitor amateur use to see if it can happen on a non-interference basis.

Q: How long is the trial for?

It has been set down for a year until December 2018 but that can be changed at any time by MBIE (RSM).

You will be advised if any change is made.

Q: How do I know I am operating with a power of 10 dBW e.i.r.p?

E.I.R.P. = TX power output in dBW, less losses to the antenna (dB), plus antenna gain (dBi). This licence is for 10 dBW e.i.r.p. which equals 10 Watts e.i.r.p. Peak envelope power (PEP)

For example:

Half wave dipole 7 m above poor ground	+2 dBi
Feedline, balun & connector losses	-1 dB
Transmitter Power	8 W +9 dBW
Total Power	10 dBW e.i.r.p

Humanity Star

When the Electron Rocket was successfully launched from Mahia Peninsula on 21 January it carried three commercial satellites, and an additional test payload was a disco ball. The ball has been named *Humanity Star* and should result in flashes of sunlight being reflected to observers on the ground on some passes.

These Terahertz radiations should be observable by the human eye when the satellite is sunlit, but the ground is in shadow.

The table below gives predictions by the program *Satscape* for visible passes of *Humanity Star* over Auckland.

The table headings mean..

S-AZ	Start azimuth or bearing on the true compass
MAX-EL	Greatest angle above the horizon in degrees
MAX-AZ	Bearing in degrees at maximum elevation
DUR	Duration of the pass in minutes and seconds
E-AZ	Azimuth as the satellite drops below the horizon
LIT	The satellite is in direct sunlight
VIS	Satellite is visible

DATE	TIME UTC	S AZ	MAX EL AZ	DUR	E AZ	LIT	VIS
19 FEB	08:36:03	173	22 (107)	10:41	033	Yes	Yes
21 FEB	08:06:21	167	15 (109)	09:53	044	Yes	Yes
22 FEB	08:36:22	181	48 (112)	11:03	016	Yes	Yes
23 FEB	07:34:45	160	08 (110)	08:36	057	Yes	Yes
24 FEB	08:03:21	175	26 (109)	10:30	029	Yes	Yes
25 FEB	08:31:56	188	78 (219)	10:52	003	Yes	Yes
27 FEB	07:55:22	180	43 (113)	10:34	018	Yes	Yes
28 FEB	08:22:16	193	44 (257)	10:25	353	Yes	Yes

Napier Amateur Radio Club Hamfest

NARC Proposed Programme 2018 HB Hamfest.

Date 7April, Venue Napier Aero Club, Watchman Road, (Napier Airport).

0900 Opening and welcome, NARC President Dave ZL2MQ.

0910 Con Wassilief ZL2AFP, Lower Frequencies (below 630KHz) 50 min.

1000 Morning tea break, coffee, biscuits 15 min.

1015 Ray Harkness ZL2RAY, Lightning, static discharge, bonding and earthing 45 min.

1100 Don Wallace ZL2TLL, NZART Admin Liaison Officer, International Amateur Radio 30 min.

1130 Dr Gary Hinson ZL2iFB, Logbook of the World 30 min.

1200 Dave Crook ZL2MQ, NARC Club Project, a high performance SWR & Power meter 30 min.

1230 Lunch Break, selection of hot and cold finger food, fruit, coffee, tea 60 min.

1330 Holger Hannemann ZL2IO, Station automation 30 min.

1400 Xenia Hanneman ZL4YL, CW Skimmer operation 30 min.

1430 Erroll Lilley ZL2IT, Radio Experiments 30 min.

1500 Dr Gary Hinson ZL2iFB, FT8 digital mode 60 min.

1600 Social hour(s), bar opens.

1800 Buffet dinner for those interested at the Napier RSA, numbers to be confirmed at 9 am intro.