



Franklin Amateur Radio Club Inc NZART Branch 10  
Committee

President: Mike Jane ZL1UOM

Vice President: Gary Landon ZL1WGL

Secretary: Tom McDonald ZL1TO Ph. 09 238 8580  
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.

VOLUME 28 ISSUE 8

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 (controller  
ZL1UOM) and 9.30 am on the 146.900 MHz repeater  
(controller ZL1PZ). 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.

## Car club rally on 2 August.

Four teams from Franklin participated.

Peter ZL1PJH and Mike ZL1MFL were at the start. Ian  
ZL1PZ at checkpoint A. Durlene ZL1ULK checkpoint B.  
Bob ZL1BBZ and David ZL1DW at checkpoint C. Since  
Bob and David had traveled in separate cars it was a simple  
matter to shift to Bob's station when David's radio had a  
failure. Durlene reported that the rally went OK despite the  
long 12 hour day due to 44 entries. Peter appreciated there  
was delivery of sausages, bread and water bottle! Durlene  
commented that she got none! Peter said that a spade and a  
rake to fix the hole that developed. Of course the old hands  
all know that the starters, doing their starting wheelie dig a  
hole in the road as the day progresses, and fixing the hole is  
the duty of the tidy up crew at the end of the day.

One car came off into a drain near Durlene. Touring on  
public road took a long time extra. There was usually one  
minute between starters, for four runs and then the run offs.  
Communications at the course were on 146.825 MHz  
simplex; the radio path was just satisfactory, with Peter  
finding it poor due to his position in a gully. Durlene, on  
higher ground found communications were fine for all.

David ZL1DK in control lost power from his battery and  
headphones for a little while. However, being well prepared  
he was promptly back on air.

## Club Notice Board

### General meeting, Tuesday 18 August

Aucklanders are back in Covid19 Level 3 lockdown from 13  
August until 26 August. Accordingly there will be no face  
to face general meeting in August. Members are  
encouraged to log in to an on-air gathering on the Bombay  
repeater at 7.30 pm 18 August and from there we can go to a  
ZOOM meeting. Members will be circulated the meeting  
number and password by email.

### Car Club Rally, Sunday 6 September

We have had advice that this event is now cancelled.

### James Allan Rallysprint, Sunday 25 October

Franklin has been asked if we can supply, say half, of the  
stations for safety communications of this two stage rally in  
the Maramarua Forest. Volunteers should contact David at  
[zl1dk@nzart.org.nz](mailto:zl1dk@nzart.org.nz)

### Field Day

The latest Break-In has full results of February's contest.  
An extract from the result table shows Franklin in the middle  
of the phone only group.

Are we up for the challenge of joining the big stations next  
year on both voice and morse?

## 2020 Jock White Field Day Results

### Montgomery Cup - Northern Region

CALL		80 metres					40 metres					Tot Mult	Total Score	Pwr Out	BRANCH
		QSOs			Branches		QSOs			Branches					
		Ph	CW	DX	Ph	CW	Ph	CW	DX	Ph	CW				
1	ZL1XH	420	158	3	24	11	267	114	14	22	10	67	240597	100	77 Te Aroha
2	ZL1AM	320	154	3	24	10	161	135	4	21	10	65	192270	100	28 Whangarei
3	ZL1FU	292	83	1	24	11	311	51	10	23	10	68	176052	100	80 Hibiscus Coast
4	ZL1AA	321	35	1	24	11	236		21	23		58	119828	100	02 Auckland
5	ZL1WIS	248		3	24		156	30	6	20	9	53	76956	100	90 Waiheke Island

### Hastings Trophy - Phone Only

1	ZL1VK	438		2	24		250		6	22		46	98624	100	65	Papakura
2	ZL2KO	404		1	23		214		12	21		44	87296	100	20	Manawatu
3	ZL1SA	328		1	24		209		11	22		46	79626	100	10	Franklin
4	ZL4OO	196		1	22		199		8	22		44	56100	100	61	Central Otago
5	ZL1REG	241			24		88		3	18		42	42714	100	89	Radio Electronics Group



**Minutes** of Franklin Amateur Radio Club (Inc) General Meeting held in the Clubrooms Stadium Drive, Pukekohe, 21 July 2020.

Chairman Mike ZL1UOM opened the meeting at 1930 hours.

Attendance: ZL1UOM, ZL1TO, ZL1PZ, ZL1PJH, ZL1WGL, ZL1GAC, ZL1BBZ, ZL1DW, ZL1BQA, ZL1TGP, ZL1LL, ZL1ULK, Peter, Andre, Harmonic

Apology: ZL1MFL accepted ZL1WGL / ZL1PJH

Minutes of the 16 June 2020 meeting. Bob ZL1BBZ said he is missing from the rally list. So too Ian ZL1PZ. Agreed that ZL1PJH and ZL1MFL would form a team. ZL1ULK is also in the rally comms team.

The minutes were approved. ZL1TO / ZL1WGL

Correspondence:

Newsletters from Branches 03, 29, 65, 80, 86 as in QUA.

Correspondence report received. ZL1TO / ZL1PJH

Finance:

Expenditure: Contact Energy \$27.67 for power to July.

Watercare account is in credit by \$6.22.

Receipts: Subscription \$20 and another potentially paid online. Sale of donated tower \$208. Fund to be deposited shortly - with thanks to Gary ZL1WGL.

Ted ZL1BQA reported that another mast was recently 'dropped'.

The finance report was received. ZL1TO / ZL1BQA



**Minutes** of Franklin Amateur Radio Club (Inc) Committee Meeting held in the Clubrooms Stadium Drive Pukekohe 4 August 2020

Chairman Mike ZL1UOM opened the meeting at 1934 hours.

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

Apology: ZL1DW

Minutes of the 7 July 2020 committee meeting, approved as true and correct. ZL1BQA / ZL1WGL

Correspondence:

Newsletters from Branches 29, 65, 86.

Branch return to NZART being processed.

Notice of proxy vote at NZART conference 2020 being processed.

With Soren and other AREC officers with registration details and ID photographs of eight AREC supporters.

With potential new member Peter supplying information on screen reader, exam software and training material.

FMG Post July/September 2020

Messages from Paul ZL4AX ... Yaesu FT-60 rigs on offer.

Bob ZL1BBZ photo ID for AREC

Correspondence report received. ZL1TO / ZL1PJH

Finance:

Expenditure: Contact Energy \$52.38 (\$27.67 in July)

Receipts: Subscriptions paid \$20, and \$30

Reports:

AREC: Car club rally on 2 August. Three teams from Franklin (from ZL1ULK, ZL1MFL/ZL1PJH, ZL1BBZ, ZL1PZ) are to be advised of arrangements by email.

General Business:

Mid-Winter Dinner – as described in QUA.

Afternoon tea 4 July. Those club members attending Ian ZL1PZ century were ZL1TO, ZL1LL, ZL1BBZ, ZL1WGL, ZL1ULK, ZL1VEY, ZL1AQS.

Tom ZL1TO has responded to AREC query from Andy Brill.

Other AREC matters: There is a process to follow if we are going into recess. ID photographs will need to be done soon. Auckland Regional meetings are open to all.

QUA: Brian Holmes and Ian ZL1PZ did not get the latest.

Bob ZL1BBZ noted that NZART Business Manager reported that there are many members 'Gone no address' or silent key.

The Club HF transceiver has been returned tonight.

NZART Conference 2020

No member will be attending Conference.

The decision of this meeting is to be relayed to NZART Business Manager so that our view is expressed by way of a proxy vote. ZL1BQA / ZL1WGL

Remit: (From Branch 05 on process of Branch membership affiliation reallocated following a Branch going into recess).

Franklin's vote - In Favour 25, Against 0, Abstain 0

No other business for the attention of Conference.

The meeting closed at 2020 hours.

Sale of donated tower, \$208 deposited by Gary ZL1WGL.

The finance report was received. ZL1TO / ZL1WGL

Reports:

AREC: Car club rally on 2 August. Four teams from Franklin participated.

There will be a two stage rally – James Allan Memorial – at Maramarua on Sunday 6 September. David ZL1DK is looking for 12 stations for safety communications.

General Business:

Other AREC matters: Tom ZL1TO reported that a message from Steve ZL2UCX has advised that there is a process to follow if our AREC section is to go into recess. ID photographs have been emailed to AREC Secretary.

The Club HF transceiver Kenwood TS680 serial number 9040640 and its power supply have been returned from loan.

Topic for next club night: ZL1WGL would like to hear more from Steve on Raspberry Pi projects. Mike ZL1UOM could speak on linear pass DC power supplies. Tom ZL1TO suggested we might gather questions from members that could then become the subject of explained answers at our club nights.

Last night's Fair Go item on the Sumner Sea Scout building earthquake damage was mentioned by Gary ZL1WGL. Payment for earthquake damage went to the Scout's national body. The feeling was that we are an incorporated society with our own identity and any payout on insurance for damage to the clubhouse would be to the Club.

Mike ZL1UOM said rooftop moss and lichen is wearing off.

The meeting closed at 2040 hrs



02. No meeting on 16 August. Autobiography of Warren Robinson ZL1AIX-SK, who acknowledged our Roy Needham as a mentor... a must read article.

03. Calendar for 2020. August show and tell cancelled due to Covid19. 30 attended dinner at date between the lockdowns. Any interest in a 6 m net? Whau bridge (close neighbour) being built 1931. Hamilton Market Day 29 August. JOTA 17/18 October. Table of radio nets.

29. Space being developed for BBS station, mesh node, HF/VHF stations, repair and test bench. Exam – five passes July, nine in August. Hamilton market day.

65. Solar Cycle 25 has begun. Straight key construction contest 5 August. Morse training on 3.755 MHz. DX from Antarctica and rare countries. Lighthouse weekend 22-23 August. SpaceX to bring astronauts to splash-down. The amateur's code. Flower pot antenna. Predicting solar flares. Producing electricity from shadows. Hamilton Market Day 29 August. Taranaki sale 26 September.

86. Video of US Ambassador visit to Musick Point 2003 – topic for 9 August. David ZL1DRV is new President. Ode to a Fullerphone. Update of work on TR98.

From the Pi\_Star web site:

*“Pi-Star is a software image built initially for the Raspberry Pi (produced by the Raspberry Pi Foundation). The design concept is simple, provide the complex services and configuration for Digital Voice on Amateur radio in a way that makes it easily accessible to anyone just starting out, but make it configurable enough to be interesting for those of us who cant help but tinker.”*

The third Raspberry Pi Hotspot I built used Pi-Star running on Raspberry Pi 3, with a JumboSpot. Later it was upgraded to include a TFT display. It is currently set up to operate on D-Star and YSF, all that is required for it to be usable on DMR are further settings.

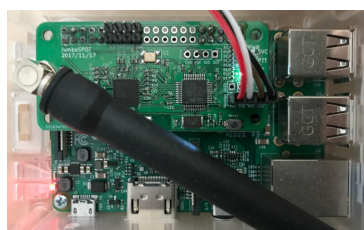


Figure 2: Pi-Star internals

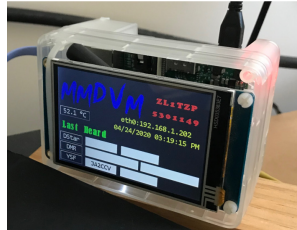


Figure 3: Pi-Star Hotspot

The Pi-star hotspot dashboard can be accessed from any computer and browser on the local network. It shows recent activity and is also used for set up including which DV modes you'd like to use.

Are Raspberry Pi's only useful for DV modes?  
Let's see, next instalment will tell.

Steve ZL1TZP

## 3 Raspberry Pi - Part 4

Time to add other DV modes..

The DVMega discussed last time was first introduced for a single DV mode, that was D-Star. Later with a firmware update it was able to also be used in DMR mode. The DVMega was followed by a number of other boards that would plug directly onto the Raspberry Pi. One of them was the Jumbo spot, initially it supported, D-Star, DMR and YSF, later it's support included P25 and NXDN.



Figure 1: Jumbo Spot

New software, namely Pi-Star became available. It is a Multimode Digital Voice Modem (MMDVM) package for the Raspberry Pi, supporting all of the above DV modes. Ideal too for your DV Hotspot, no matter what your DV mode preference is.

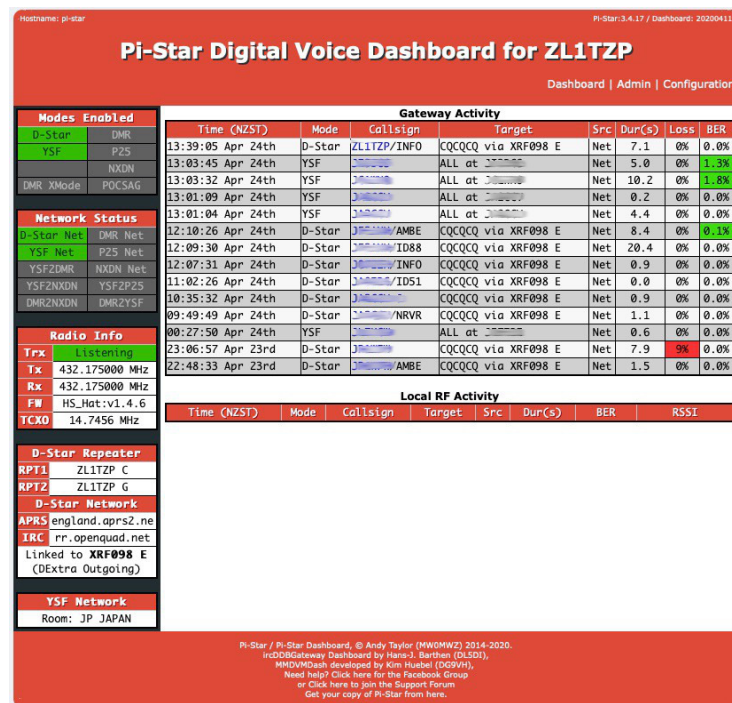


Figure 4: Pi-Star Dashboard

NZART

It's not them  
It's us