



New Zealand Association of Radio Transmitters

ZL1AA - AUCKLAND BRANCH 02

JULY

2015



General meeting



SATURDAY JUL. 18 @ 13:30

Murray Greenman, ZL1BPU

Talks about FSQ

Club Room will be open at 10:30 AM

Harry, ZL1BK will also demonstrate his portable HAM Satellite station

What is FSQ?

FSQ is a Fast Simple QSO mode designed specifically for HF. It works well under NVIS and sunrise/sunset conditions on the lower bands, and also works well for short skip and grey-line on higher bands. It can also be used on VHF FM, and clearly has a much wider useful range of operating conditions than other more conventional digital modes. FSQ transmission is also well within the capability of micro-controller based devices for low-power propagation transmissions (MEPT and telemetry). The FSQ modulation, coding and FSQCall protocol are publicly disclosed and described, and the software is open source.

FSQ was developed by Con Wassilieff ZL2AFP with the assistance of Murray Greenman ZL1BPU. The first QSO took place between these two on 28th November 2014,

<http://www.qsl.net/zl1bpu/MFSK/FSQweb.htm>

NOTICE: IOTA CONTEST JUL 25/26

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Club Officers

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ZL1AA Information:

Branch 02 Clubroom is located at
400 St Johns Road
Kohimarama, Auckland
(Off the beaten track / main road)

Google Earth:
36.869730s, 174.843860e

Clubroom is open every Saturday from
1030 hrs for members and guests to drop
by for coffee and a chat! .

General meetings are held on the third
Saturday of each month at 1330 hrs (except
Dec / Jan).

Committee meetings are held on the first
Tuesday of each month at 1930 hrs. ALL
paid members are welcome to attend.

Affiliations:
10-10 International
NZART
AMSAT-ZL

Club nets:
Thursday:
145.775 MHz @ 1930 Ray, ZL1AJR NCO
Thursday:
3.645 MHz @ 2000 Ray, ZL1AJR NCO

10-10 Down Under Chapter Net:
28.530 MHz 2230Z Fridays
(1030 NZST Saturdays)

Branch Contacts:

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(09)-528-1177
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Branch Examiners:

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Web Master:

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Station Trustees:

George Marr, ZL1TUJ
Wes Printz, ZL3TE

Branch Technical Advisers:

Simon Watt-Wyness, ZL1SWW
sww@eagle.co.nz

SUBSCRIPTIONS

- ❖ **Subscription Rates:**
Regular \$45 (discounted with a \$5.00 raffle ticket if paid by 31st March 2014)
Youth Rate \$20
- ❖ Post to PO Box 18003, Glen Innes, Auckland 1743, direct credit may be made into our bank account 12-3047-0076823-00, or pay the Treasurer or Secretary at the clubrooms.
- ❖ A pro rata rate is offered to a new member joining part way through the year. The financial year runs from 1 December to 30 November
- ❖ Receipts will be distributed either in person at meetings or via mail/E-mail.
- ❖ Branch financial year currently runs from 1 December to 30 November.
- ❖ A current Membership Application / Renewal Form is required with all payments to assist with accurate record keeping. Available from the Secretary, or by download http://www.qsl.net/zl1aa/br02_mem_form.pdf
- ❖ All members' information is kept confidential unless approval is given for it to be released.

Newsletter material submissions are welcomed and appreciated by your editor. You may submit material in a variety of file formats: .TXT .DOC, or just plain old E-mail. Photos are accepted also. Please submit material via E-Mail to: ZL3TE@dxer.com I will use what I can with the space available at the time of newsletter editing.

Auckland Unitary Plan Update

The Submission Status

2 June 2015

- We had “informal talks” with council’s legal and planning team representatives on Thursday, 30 April 2015.
- There was no opportunity for further informal talks, and because of time pressure, the City Planner was not able to deal with us at the next scheduled Mediation Meeting, so we missed the opportunity to use Mediation to circumvent the Hearing Process.
- The Planner has now prepared her report for the Hearing Commissioners, and the report makes Amateur Radio Configurations (ARCs) permitted in rural and large lot residential, but in Residential Zones it remained Restricted Discretionary (which means that residential Amateur Radio Configurations (aerials & masts) still need a resource consent).
- Furthermore, the Planner also included “Development Controls” which were a copy of the old North Shore provisions. These provisions never did meet amateur’s needs - it allowed one 15m mast, and one other pole with a single wire aerial back to the mast. Allowable dimensions of aerials would have excluded about 50% of the things amateurs probably do at present.
- Consequently your steering committee has been very very busy writing Evidence Reports for the Hearings which will be in July. The assistance of Julie Goodyer, our lawyer has been invaluable.
- Julie is preparing an extensive challenge on legal issues – there are lots of clauses in existing legislation, and in international treaties, which require councils to make provision for amateur radio.
- The evidence Peter Loveridge and I are preparing contains a description of what Amateur Radio is, the challenge of HF long distance propagation, the needs of VHF, UHF and SHF, and the consequent need for aerial height. Our presentation to the commissioners will also challenge the Planner’s conclusions.
- Evidence has to be submitted to Council by 3 June 2015 and the Hearings will be one month later.
- Over the next month we will be collecting statistical data, in case we are asked specific questions by the judge and/or commissioners at the hearings in July.

Douglas Birt ZL1BFS
NZART Local Government Liaison Officer
kdbirt@gisborne.net.nz
Mobile 027 492 5189

Looking for something to do on the weekend? Need to fill some more DXCC Challenge slots? work new Countries, work new modes? Why not operate a short while in a contest. There are several to choose from. More Information can be found here:

<http://www.hornucopia.com/contestcal/weeklycont.php>

Jul 14-21

- Trans-Tasman Challenge: Jul 18
- DMC RTTY Contest: Jul 18 / 19
- Feld Hell Sprint: Jul 18
- NAQP Party, RTTY: Jul 18 / 19
- CQ WW VHF Contest: Jul 18 / 19
- RSGB Low Power Contest: Jul 19

Jul 22-29

- CWops Mini-CWT Test: Jul 22 / 23
- RSGB 80m Championship, Data: Jul 23
- **RSGB IOTA Contest: Jul 25 / 26**
- County Hunters CW Contest: Jul 25 / 26
- ARS Flight of the Bumblebees: Jul 26
- CWops Mini-CWT Test: Jul 29 / 30

Every Month: NZART Official Broadcast: 3900 kHz LSB last Sunday of month at 2000hrs and at 2100hrs. (Also broadcast on the National Link and available on the NZART Website).

Auckland Branch, 02 NZART (Inc.) Minutes of General Club Meeting

Date / Time / Place: Saturday 20th June 2015 1340 hours / Clubroom
MEETING NOT HELD - NOTHING TO REPORT

MDT DSB Transceiver

The MDT (Minimalist Double Sideband Transceiver) is an inexpensive and easy to build kit for the 40M band. It is ideal for the first time builder as all parts except the microphone socket are mounted on a single PCB and all the components are through hole.



This is a full kit containing everything you need even the case and specially pre-cut and printed front and rear panels.

Features:

1. Size 130mm x 100mm x 50mm.
2. Sensitive Direct Conversion receiver.
3. Up to 2W PEP power output.
4. Frequency range 7.090MHz - 7.130MHz or 7.050MHz - 7.110MHz.
5. Microphone amplifier accepts standard low impedance dynamic or Electret microphone with selectable on-board bias resistor.
6. LED transmit power and modulation indicator.
7. 3.5mm stereo headphone connector. Can power external loudspeaker.
8. Carrier suppression up to 50dB.
9. All spurious transmit outputs better than -46dBC.
10. Receive current approximately 50mA.
11. Transmit current approximately 250mA at maximum power output.
12. Reverse polarity protection using a series-diode.

<http://www.ozqrp.com/MDTindex.html>



From the chair - ZL1FS

Hi all, last months general meeting was as expected at this time of year a small turn out. I would like to do a survey on the best night for our nets as the current Thursday doesn't work for several people. We should still keep the pattern of both nets on the same night, and later go to one combined VHF / HF net.

Monday nights is too soon after the weekend, and our active members have been at the club on Sat.
Tuesday ? still early in the week. Wednesday a strong possibility? Thursday not so good ! Friday is not a good idea.
PLEASE send me your vote. TXT on 021-022 64981 or email on Dion4cy@gmail.com

Also Ray has been doing the nets for YEARS, its about time we all took turns in this aspect of the clubs activities. SO I'm wanting more members to become involved in operating our nets, so if you have a reliable setup for either VHF or HF please contact me.
73's, Steve.

Auckland Branch 02, NZART (Inc.) Minutes of Committee Meeting

Date / Time / Place: Tuesday 2nd June 1930 hours / Clubroom

Attendees: Steve, ZL1FS (presiding), Wallace ZL1WAL, Ray ZL1AJR, Logan ZL1LMN and Mrs Nicoll

Apologies: Gwynne ZL1AAR, Wes ZL3TE, George ZL1TUJ, Japie ZL1JJN Sustained ZL1WAL / ZL1AAR

Minutes: of the previous Committee meeting on Tuesday 7th July 2015 at 1930 hours Arising:

Wallace reported that he had spoken to Ian Campbell of ACPL (rather than write), telling him that we were taking legal advice to redraft the document to more closely match our 1970 agreement.

He was told that any negotiation should be with Richard Ward. Follow up at end of the month.

Approved ZL1FS / ZL1LMN

Correspondence In:

- Newsletters: Franklin, North Shore Suburban (by post); Hibiscus Coast; Auck VHF Group (by e-mail)
- Branch reflector of Newsletters from North Canterbury, Hasting / Napier, Rotorua, Hamilton.
- NZART-HQ: Nomination for Young Amateur of the Year was received by not sent to Council.
- NZART-HQ: Change to Constitution will be considered at Council Meeting in July.
- Peter Nicoll offering to help redraft Licence
- Douglas Birt: Update of Auckland Council Unitary Plan submission.
- Wes ZL3TE quoting for heavy duty rotator cable at US\$1.59 /foot (75 metres are required).

Correspondence Out:

- Peter Nicoll re draft of Licence to Occupy.
- NZART HQ: Young Amateur of the Year submission was made on 31st Dec 2014.
- Stuart Watchman, President NZART: Suggesting that he visit Auckland re Young Amateur of the Year.
- NZART-HQ: Change to our Constitution ("Review" to replace "Audit") requires approval by Council.
- NZART-HQ: Call book directory details.

Received and approved ZL1WAL / ZL1FS

Finance:

- Finance Report was presented by the Treasurer. There were no transactions this month.

Received ZL1WAL / ZL1FS

- Expenses requiring approval:
 - o Steve Regulator \$21.71
 - o Steve Petrol voucher \$20.00 (for speaker later this month)
 - o Wallace Sub for AMSAT-ZL \$20.00
 - o State Insurance Contents policy only \$180.90 (We cannot insured the building.)

Approved ZL1WAL / ZL1FS

General Business:

- **Reports:**
- **AREC:** None
- No General Meeting was held on 20th June.
- **Licence to occupy:** Steve suggested that we should pay Auckland Council for electricity used.
- **Maintenance:**
 - Meter readings 2 June 2015 = 47191.0
 - 7 July 2015 = 47296.4 which means 105.5 units used over 35 days, i.e. 3.01 /day.
 - Power outlets on north side of building are not live. Steve will attend.
 - Painting – North wall ready for painting; the wall has been washed and trestles are erected.
 - Level floor – to be scheduled.
 - Corner pile supporting under-floor access door – No progress.
 - Vermin: Dishes and cups are stored in bins.
- **Computers / network / phone line:**
 - Cancel Orcon by ordering Naked from Compass who will arrange the transfer of data.
- **Remotely operated station:**
 - Kenwood TS480HX (belonging to Ray ZL1AJR) is being used as a listening post.
- **Antennas:**
 - Tower: Fit rotator and quad antenna – task to be assigned and scheduled.
 - Satellite dishes ex Tamaki Campus of University of Auckland has been referred to Simon ZL1SWW.
- **Exams:** One student tested but failed.
- **Nets:** Steve intends to poll Members about a suitable day /time.
- **Future Events:**
 - North Shore Branch have cancelled Venturer Scouts' course for 6-10th July.
 - Speaker: 18th July FSQ mode by Murray Greenman

(July Committee Minutes Continued on page 6)

- The following need to be confirmed:
- 15th August. Small antennas for city QTHs by Gary Bold ZL1AN
- 19th September. Stuart Watchman, President of NZART visit and presentation.
- Newsletter: Deadline 10th July

The meeting concluded at 2100 hours with supper cake supplied by Mrs Nicoll and Ray Chapman.

RSGB IOTA Contest: 1200Z, Jul 25 to 1200Z, Jul 26

Mode: CW, SSB
Bands: 80, 40, 20, 15, 10m
Classes: Single Op 12 hrs (Island/World | CW/SSB/Mixed | QRP/Low/High)
Single Op 24 hrs (Island/World | CW/SSB/Mixed | QRP/Low/High)
Single Op Assisted 12 hrs (Island/World | CW/SSB/Mixed | QRP/Low/High)
Single Op Assisted 24 hrs (Island/World | CW/SSB/Mixed | QRP/Low/High)
Multi-Op Island (QRP/Low/High)
Max power: HP: 1500 watts
LP: 100 watts
QRP: 5 watts
Exchange: RS(T) + Serial No. + IOTA No.(if applicable)
Work stations: Once per band per mode
QSO Points: (see rules)
Multipliers: Each IOTA reference once per band per mode
Score Calculation: Total score = total QSO points x total mults
Submit logs by: August 16, 2015
E-mail logs to: [iota\[dot\]logs\[at\]rsgbcc\[dot\]org](mailto:iota[dot]logs[at]rsgbcc[dot]org)
Mail logs to: RSGB IOTA Contest
Radio Society of Great Britain
3 Abbey Court, Fraser Road
Priory Business Park, Bedford MK44 3WH
England
Find rules at: <http://www.rsgbcc.org/hf/rules/2015/riota.shtml>

The IOTA contest is a FUN and Exciting contest as we are an Island Nation, every ZL will be in high demand, Island stations are worth 15 points in the contest. This is a great time to put ZL on the air, and have some fun.

IOTA Island Expedition - Rakino Island, OC-201

Wes, ZL3TE and John, ZL2DD, will participate in the IOTA contest from Rakino Island. part of the North Island Coastal Island Group OC-201, July 25/26.

Operation will be CW / SSB. Wes, ZL3TE/P will be on CW with John, ZL2DD/P operating SSB. We will arrive on Saturday afternoon, with plans to be QRV through Sunday evening, Departing the Island on Monday.

We will transport all antennas, radios, food, generators, and petrol to and from the island. This will put us in the Island Expedition category in the IOTA Contest. OC-201 is only claimed by 36% of IOTA Participants.

Field Day - North American Style

Each Year I try to make it back home to the States to catch up with family and friends. The trips are generally in April and planned around one Amateur Radio event or another. Recent years my trips have been planned around the International DX Convention in Visalia, CA. Sometimes, the journey happens to fall around the JIDX CW Contest which include a stop in Fiji, where I have operated the past 3 years as 3D2SE



Bob, AA6PW (L), Wes, W3SE/ZL3TE (R) Assemble the 20 Meter 3 Ele Log Periodic (Engineering Prototype)

This year, we planned the trip for June, as my Partner works in the accounting sector, and can not always get away in April.

Why plan for June? June just happens to be when Field Day is held in North America. I have missed the excitement and High QSO rate of this fun 24 Hour event.

Field Day is a big event in the States. Clubs, and groups large and small with their members descend on Parks, School, Shopping malls, and remote Locations.

This year, I operated with a group of very good friends I have known over 25 years. Arnie, N6HC, Bob, AA6PW, Chip, K7JA and Dino, KX6D. The Category chosen was 2A. This translates to a Club / Non-Club with 2 HF Stations operating Portable not powered by Commercial Mains. Dino organized the GOTA (Get On The Air) station. The GOTA station can be operated by any one licensed in the previous 12 Months.

During FD, we operate all bands 80 Meters upwards including Satellite contacts. K7JA operated the V/UHF/Satellite station, while N6HC, AA6PW and ZL3TE operated the 2 HF stations over the 24 hour event. We had an operator schedule layed out, which kept everything covered while others slept a few hours here and there. In the Very Early hours, K7JA operated on 80M while the VHF bands were quiet.

We had an assortment of antennas. 2 Ele 40M wire Yagi at 85 Ft, Double Bazooka at 85 Ft for 80M, Force 12 C3 at 55 Feet for 10, 15, 20M, 3 Ele 10M Yagi, 4 Ele 15M Yagi, and 3 Ele Log Periodic for 20. The Mono band yagis were about 7M high, and many V/UHF. The Location was the Local Boy Scout Camp about 30 Miles S.SE of Los Angeles, at an elevation of 400M ASL.

Over the duration of FD, we made close to 3,700 QSOs, We had a blast. The rules allow antenna assembly on Thursday afternoon, with installation Friday, ready to go on Saturday AM at 1800Z (11:00 AM Local). The last QSO was made at 17:59:55Z Sunday. The next 5 hours was full on with removing all antennas, stations, masts etc.. all packed away and we drove off the hill 5 hours after the close of FD.

Equipment used HF: Elecraft K3, Kenwood, TS-950, V/UHF: Icom 7800, Yaesu 847. You can see all the major players were represented. I'm looking forward to returning for another FD.

73, Wes, W3SE / ZL3TE

N6HC 2A LAX 2015 ARRL FD SITE



Clockwise L-R:

105Ft Tower raised to 85Ft with the 2
Ele 40M Yagi, and Force 12 C3

Sattellite Antennas with 10M Dipole

N6HC 2015 FD Site Looking South
(Tower is actually Vertical)
View Looking towards the North East

Mono Band Yagis
10M 15M 20M
And Lots of Blue Sky !

