



HQ Infoline
A Service From
New Zealand Association of
Radio Transmitters



NZART Headquarters Infoline Issue 226
20-MARCH-2011
NZART Website: <http://www.nzart.org.nz/home/>

In This Issue

- *IARU Region 3: First Week of Japan Disaster
- *Japan's Magnitude 8.9 Earthquake - Amateur Involvement
- *Message from Break-In Editor
- *From The Business Manager ZL2DL
- *NZART Conference 2011
- *School Skeds
- *Rugby World Cup 2011
- *Transmission of Data and Power Wirelessly Through Submarine Hulls
- *Long Path PSK?
- *Historic First: A Spacecraft Orbits Mercury
- *For Your Information - WX Silverstream and Trentham
- *An Official NZART E-mail Reflector is Now Available
- *Correction to 2011 Timetable
- *Kiwi Digital Modes Group
- *Upcoming Events
- *Contest News
- ==VHF/UHF/SHF Contest Notes
- ==HF Contests
- *Housekeeping
- ***Attachment(s) for Branches:** infoline-226.doc

IARU Region 3: First Week of Japan Disaster

JARL HQ station JA1RL and other amateur stations are maintaining the effort to support disaster relief operation which is being captured by audio and vision.

IARU Region 3 Secretary, Ken Yamamoto JA1CJP said, "In less damaged areas, the power supply is being restored gradually and local amateur radio club members have started to establish stations at shelters either on HF, VHF or UHF bands."

Ken Yamamoto said, "The radio amateurs in the affected areas are also making use of UHF repeaters for communications between shelters and local disaster relief centres. According to reports from the shelters, they are generally shortages of food, drinking water, fuel and medical goods. This is mainly due to difficulty of transportation because of road situation and staff shortage."

He said "JA1RL continues to operate under instruction to be an emergency traffic centre. Using the 7 MHz, 144 MHz and 430 MHz bands it is receiving help from JARL members in the affected areas. Field stations are using various frequencies, including some battery powered and others using small generators. Each is exchanging rescue and disaster relief operation information with JA1RL and others. While 3525, 7030, 7043 and 7075 have been mentioned as in use, it's wise to

keep those, and all of the Centre of Emergency frequencies clear of normal and non-urgent traffic. There is no call for additional foreign radio amateurs."

Ken JA1CJP notes that JARL has received many e-mail messages from radio amateur radio societies and individual hams of many nations and territories in all six continents.

"These messages convey their condolences, sympathies and prayers for the people in Japan. JARL appreciates them very much and is encouraged by them." he said.

"I have also picked up some update information from news sources. The situation is getting worse. On March 17, police announced 5,178 people have been killed and 8,913 are missing. The numbers are sharply rising as most affected areas become accessible by search and rescue teams." he said.

The teams are from Australia, China, Korea, Singapore, New Zealand, USA, Germany, Switzerland and Russia.

The status of Fukushima nuclear plant is still serious and local residents within 20km radius have been evacuated.

It has been a week since the 8.9 on the Richter scale quake, the worst in 140 years, hit off Sendai triggering a ten-metre tsunami.

Statements issued by Vertex Standard Yaesu said its centre at Fukushima was currently out of action, while Icom and Kenwood are located elsewhere and not suffered the same outage. No reports have been received from other manufacturers at this time.

Jim Linton, VK3PC, Chairman IARU Region 3 Disaster Communications Committee.

Japan's Magnitude 8.9 Earthquake - Amateur Involvement

Taken From the ARRL Weekly Newsletter for 17-March-2011

The ARRL Weekly Newsletter is found at:

<http://www.nzart.org.nz/news/>

For more on how radio amateurs in Japan are providing communications support after earthquake, click here

<http://www.arrl.org/news/radio-amateurs-in-japan-provide-communications-support-after-earthquake>

For information on how US amateurs are helping out, click here

<http://www.arrl.org/news/japan-asks-radio-amateurs-to-keep-frequencies-clear-as-country-goes-into-recovery-mode-after-devasta>

For more on how Japan, Hawaii and the Western US dealt with the immediate after effects of the earthquake and tsunami, click here

<http://www.arrl.org/news/massive-earthquake-hits-japan-tsunami-warnings-issued>

Message from Break-In Editor

"The Break-In Editor John Walker ZL3IB has advised that he is assuming Break-In will be published as usual although it maybe slightly late."

From The Business Manager ZL2DL

Debby says...

Branch Circular

The March Branch Circular has now been posted out to all Secretaries. If you do not receive this within the next 5 days please get back to me.

Included in the mail out are your branch membership details. If there is someone missing from your list whom you believe should be there, can you please confirm with them that they have made their 2011 subscription. If so, please contact me with details of when and how they paid, so that I can confirm and update my records.

Election Results

Elections close officially at 12 noon on Monday 21st March. Any votes received after this date will be voided. Any payments sent in an election envelope will be destroyed unopened, as these are to be used ONLY for voting purposes.

The Results of the election will be available on the web site on Monday evening following the count and official confirmation by the Returning Officer.

Candidates will be notified first, either by phone or e-mail.

Break In

Break In is due out at the beginning of April. At this stage all is confirmed that it will be posted as usual, given that these are produced and posted from Christchurch.

All thirteen remits will be included in Break In, therefore no prior publication of this is permissible in accordance with Clause 6.6. e of the NZART Constitution.

Talk soon...Debby ZL2DL

NZART Conference 2011

Queen's Birthday Weekend June 3-6 2011

Upper Hutt Branch 63 NZART cordially invites NZART Members and their guests to join us at the Upper Hutt NZART Conference 2011.

Venue

This year's Conference is being held at the Silverstream Retreat which is located near the Upper Hutt suburb of Silverstream and just north of the entrance to Stokes Valley. It is easily accessible from the nearby State Highway 2 and State Highway 58 (Hayward's Hill Road). Physical address is:

Corner Eastern Hutt Rd & Reynolds Bach Drive, Lower Hutt 5019

Free Internet access on site via Wi-Fi will be available.

Provisional programme

The programme will include lectures and forums by several guest speakers, the NZART AGM plus

the usual AREC, AMSAT-ZL, OTC, SPAM, WARO and other section meetings, forums and AGMs. An exciting range of other talks, displays and trading tables has been organised.

Guest Speakers

The Conference is planning for an opening address from local Member of Parliament, Chris Hipkins, as well as the Conference Chairman.

Friday

Registrations will commence on Friday afternoon from 4.00 pm at the Silverstream Retreat, from the Boardwalk complex. For those staying on site, all registration and accommodation will be handled by the Conference Registration team.

Saturday

The registration desk will be open from 7.30am at the Boardwalk area, again for all registration and accommodation inquiries and requests. The Conference will commence at 8.30am, with the official opening commencing at 9.00am. After the welcoming speeches there will be a morning tea break at 9.30am for 30 minutes, with the conference recommencing at 10.00am. The Alternative Programme will commence after the morning tea break. The day should end around 5.00pm with enough time to go back to your accommodation before 6.00pm before pre- dinner drinks at the Boardwalk. Then at 7.00pm the Conference Dinner will commence. The after dinner speaker is well known broadcaster Ian Johnstone. Entertainment will follow.

Sunday

At 8.30am the WARO AGM will start with other AGM's and forums at 9.00 am. The day should end again around 5.00pm for members to refresh before 6.00 pm for pre-dinner drinks at the Boardwalk. At 7.00pm comes the closing dinner.

For more information, please contact:

Email: uh.conference2011@gmail.com

Post: UH Conference 2011, 204 Plateau Road, Te Marua, Upper Hutt 5018, Wellington.

Web Documents are at:

<http://www.nzart.org.nz/activities/events/2011-upper-hutt-conf/>

PDF DOCUMENTS

[INFORMATION \(copy of above text\)](#)

[Registration Form with accomodation prices](#)

ATTENTION: SCHOOL RADIO CLUBS

"School Skeds"

Arrange Lunch-time QSOs!

Please provide the NZART Webmaster with the following

The club callsign you will be using:

Your preferred listening/operating frequency:

Preferred week-day(s) (Monday ... Friday):

Your on-air operating start time:



The name of your club/school:
The personal callsign of the Trustee who will be supervising your station:
Other information you wish to have made known:

Contacts with other school radio clubs in addition to contacts with other amateur stations are encouraged.

A Note About School Radio Clubs and Callsigns:

The official publication of the Radio Spectrum Management Group (RSM) of the Ministry of Economic Development (MED), known as Public Information Brochure 46, PIB 46 - Edition 010 July 2010 - "Radio operator certificate and callsign rules" is downloadable from:

<http://www.rsm.govt.nz/cms/pdf-library/resource-library/publications/pib-46/pib46-edition-011-feb-2011.pdf/view>

It makes this provision for Radio Club Stations to train unqualified persons live, on-air, under the direct supervision of a qualified amateur radio operator:

"8. Club Stations

For the purposes of establishing a club station callsign record, the named trustee must hold a General Amateur Operator's Certificate (GAOC).

Club station trustees may authorise the use of the suffix "XT" with the club's permanent callsign for the purposes of instructing and training prospective amateur operator candidates in practical on-air operating procedures. Provided they are directly supervised at all times by a GAOC holder, candidates may take an active part in general communication, operate transmitter controls, and engage in calling and signing off procedures.

A log of contacts made under a candidate's name using the XT callsign, must be kept by the trustee for 1 year after the last contact is made by a candidate."

XT = Examination Trainee

Some school radio club callsigns are included in the list of Branch and Organisation callsigns on page 2-49 of the NZART 2010-2011 Callbook (use the CD-ROM version).

If your school radio club does not yet have its own club callsign and its own qualified Station Trustee, a qualified radio amateur from the local Branch of NZART may be able to assist.

Reports Are Encouraged!

Please tell us about your club's achievements, trials and successes and your personal experiences!

Send to: webmaster@nzart.org.nz?subject=WEB_ENTRY_SCHOOL_SKEDS

Rugby World Cup 2011

NZART Council has declared the Rugby World Cup to be a Special Event and encourages you to use the ZM prefix. In declaring this a special event it allows hams to use the ZM prefix eg ZM3TNT. In it's April "**Business Update**", RSM states: "**To Promote the Rugby World Cup, New Zealand Amateurs are encouraged to use the ZM callsign prefix during September and October 2011**".

A Map of New Zealand has been placed on the NZART website with game locations linked to contact details of local branches, any planned special events, on air events, and local repeater

frequencies. Branches are to be encouraged to invite visiting hams to attend meetings and any special events. Any proposed changes or additions to this are to be forwarded to myself or the NZART webmaster.

Suggested special event call signs are as listed below

ZL6RWCN Northern Districts

ZL6RWCC Central Districts

ZL6RWCM Midlands Districts

ZL6RWCS Southern Districts

Anyone interested in picking up any these callsigns and being a trustee may contact myself zl3tnt@nzart.org.nz for further details

Individuals are encouraged to apply for "RWC" suffix callsigns and print QSL Cards.

My thanks are extended to Paul Ormandy ZL4PW for his assistance in putting this project together.

Ann Fraser ZL3TNT

To RWC on NZART Web:

<http://www.nzart.org.nz/council/promotion/rugby-world-cup/>

Transmission of Data and Power Wirelessly Through Submarine Hulls

This will cause a number of concerns to Governments around the world, but a very interesting wireless techniques nevertheless.

Steel walls are no match for Tristan Lawry. The doctoral student at Rensselaer Polytechnic Institute has developed and demonstrated an innovative new system that uses ultrasound to simultaneously transmit large quantities of data and power wirelessly through thick metal walls, like the hulls of ships and submarines.

<http://news.rpi.edu/update.do?artcenterkey=2836&setappvar=page%281%29>

http://www.theregister.co.uk/2011/03/10/through_metal_comms_n_power_reinvented/

73 de ZL1GWE John

Long Path PSK?

Here is an interesting one for the infoline _ long path PSK?

Interesting visual effects indicating only previously talked about but not seen visually delayed signals.

73 de ZL1GWE John

Date: 17/03/2011 03:16 a.m.

Subject: [ibmham] I have a question - Long Path PSK?

I was operating PSK on 30 Meters last night and noted something unusual. In the waterfall there were two identical QSO's trailing across the Superbrowser in DM780. (see samples attached).

After the first I noted three others in the next 45 minutes. I was able to contact the stations and determine they were all operating between 30 & 50 watts, one with a beam pointed toward Europe and the others using verticals. None had remote transmitters or other fancy configurations, just basic set ups.

Other than the identical wave form and text decoded, I also noted the second signal was approximately 2,000hz above the base signal (I didn't think at the time to look down as well) and the delay varied by the distance, ie the closer the transmitting station, the greater the delay. You can see the Italian station was much less of a delay than K0SU in Colorado Springs. I was also told by one of the operators that my transmission was doing the same thing on his waterfall.

From this I have made the following conclusions:

Delay seems consistent with Long Path signals.

Multiple stations causing the effect and others not causing the effect, and the one station confirming I was doing the same thing to him, indicates it is not an internal radio artifact.

My questions are:

Is this truly a Long Path signal?

If not what is it?

Why the frequency shift? (Most baffling to me of all.)

Any suggestions, ideas, thoughts or references on the subject?

(See attached file: DM780-Screenshot-2011-03-15-232951 Long Path K0SU.jpg)(See attached file: DM780-Screenshot-2011-03-15-235840 Long path it9ccb.jpg)

Because of the size of the above screenshot files, they are available on the NZART Web at:

<http://www.nzart.org.nz/assets/pix-1/dm780-screenshot-2011-03-15-235840-long-path-it9ccb.jpg>

<http://www.nzart.org.nz/assets/pix-1/dm780-screenshot-2011-03-15-232951-long-path-k0su.jpg>

NOTE By clicking on the image, once loaded, you will get a larger version. (Firefox, IE and Chrome OK. Opera opens in the larger version)

Historic First: A Spacecraft Orbits Mercury

March 18, 2011: NASA's MESSENGER spacecraft successfully achieved orbit around Mercury at approximately 9 p.m. EDT on Thursday, March 17. This marks the first time a spacecraft has accomplished this engineering and scientific milestone at our solar system's innermost planet.

For further details please go to:

http://science.nasa.gov/science-news/science-at-nasa/2011/18mar_orbitmercury/

For Your Information - WX Silverstream and Trentham

When you are at the 2011 NZART Conference in UPPER HUTT on 4/6-June-2011, local weather can be obtained from:

[SILVERSTREAM WEATHER](#)

[TRENTHAM WEATHER](#)

An Official NZART E-mail Reflector is Now Available

NZART Council has approved a reflector for NZART Members.

Have you joined yet?

Join by going to Web page:

<http://www.nzart.org.nz/join/e-mail-lists/join-nzart-members-list/>

Please give your NZART Membership number.

Jamie Pye ZL2NN

Correction to 2011 Timetable

The 2011 Timetable For Official Broadcast and Infoline as published on the NZART Website had an error that has been corrected.

The month of APRIL was in wrong place and started on Sunday instead of FRIDAY the correct day.

The April Infolines will be e-mailed on Sunday 03-April-2011 and 17-April-2011.

The Official Broadcast is on the 24-April-2011.

The corrected version can be seen at:

<http://www.nzart.org.nz/h-quarter/infoline/2011-timetable/>

Jamie Pye ZL2NN

Kiwi Digital Modes Group

2011 VK/ZL RTTY SPRINT CONTEST

The third running of the Kiwi Digital Modes Group RTTY contest will take place in April 2011.

For full rules please see:

<http://www.nzart.org.nz/activities/contest-rules/rules-kdmg/>

Upcoming Events

1. Wellington EXPO-11 & VHF Convention 23-April-2011
<http://www.nzart.org.nz/activities/events/expo-2011/>
2. UPPER HUTT NZART Conference 2011 04/06-June-2011
<http://www.nzart.org.nz/activities/events/2010-upper-hutt-conf/>

Contest News

VHF/UHF/SHF Contest

VHF++ Low Band Contest (1st SAT APR 2nd if Easter) 02/03-APR-2011

[THE VHF CONTEST RULES](http://www.vhf.org.nz/VHF-UHF-SHF-ContestRules) (<http://www.vhf.org.nz/VHF-UHF-SHF-ContestRules>)

Contest Calendar 2011

Contest Name	Date(s) 2011
CQ WW WPX SSB	26/27-MAR-2011
VHF++ Low Band Contest (1st SAT APR 2nd if Easter)	02/03-APR-2011
Thelma Souper Memorial	09/10-APR-2011
KDMG RTTY 80 m	16-APR-2011

Please think of the environment before printing this e-mail

Housekeeping

1. Break-In-Closing Date Reminder: Copy for the MAY/JUNE issue of Break-In-closes on 10-MAY-2011
2. Copy for Break-In: Copy is welcome in most electronic formats but word.doc files are preferred. Photos and other graphics should be send as separate discrete files (*.jpg preferred); not as embedded pix in the body of the text. Please ensure that suitable descriptive captions/legends are included with your copy.
All received copy will be acknowledged to confirm receipt.
Thank you for your cooperation.
John Walker ZL3IB Editor.
3. Break-In: Early receipt of copy is much appreciated
4. Break-In-AREC Column: The close-of-copy date is the 03-MAY-2011 for articles for publication in the AREC COLUMN OF BREAK-IN. Photos, if available, to be on a separate floppy or CD (with captions), posted DIRECTLY TO US. Use Call Book address. All other material can go to e-mail:
zl3qr@nzart.org.nz or zl3ov@nzart.org.nz
5. [The ARRL and WIA Weekly News](#)
6. [Subscribe TO/FROM Infoline](#)

Next NZART Official Broadcast is on SUNDAY 27-MARCH-2011

Next HQ-Infoline e-mailed on SUNDAY 03-APRIL-2011

Headquarters-Infoline is a twice-monthly bulletin of news from NZART Headquarters. News and items of a general or technical interest are also included. These are obtained from various sources. The bulletins are e-mailed directly to Branches, the amateur radio packet Bulletin Board Service and to others that subscribe through the NZART Website at:

<http://www.nzart.org.nz/join/e-mail-lists/join-infoline-list/>

Regards, Jamie Pye ZL2NN, Editor zl2nn@nzart.org.nz