



HQ Infoline
A Service From
New Zealand Association of
Radio Transmitters



NZART Headquarters Infoline Issue 221
19-DECEMBER-2010
NZART Website: <http://www.nzart.org.nz/home/>

A Merry Christmas to All Our Subscribers From The NZART President, Business Manager, Council and Officers

In This Issue

- *From The Business Manager ZL2DL
- *The Official Broadcast is Available From The NZART Web Site
- *AR NEWSLINE (USA) Gives ZL2BHF a Tribute
- *Digital Amateur Television (DATV) UPDATE - 2
- *FMTAG Notes For 19-December-2010 Infoline
- *A Reminder About Contest Logs for the VHF-UHF Field Day Contest
- *Updating Amateur Client Information
- *Let There be Light
- *National System Award 2011
- *New Zealand Amateur Radio Day
- *Banning AR Mobile Use in Canada?
- *Spectrum Defense
- *A Reminder For Conference Awards
- *==Amateur of The Year AoTY
- *==Arthur (Jumbo) Godfrey
- *==Young Amateur of The Year (Y AoTY)
- *Web Update
- *Weird and Wonderful
- *Upcoming Events
- *Contest News
- *==VHF/UHF/SHF Contest 2011
- *==Contest Calendar 2011
- *Housekeeping
- *==Update to Copy for Break-In From BI Editor
- ***Attachment(s) for Branches:**
NZART Headquarters Infoline 221.doc

Please think of the environment before printing this e-mail

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From The Business Manager ZL2DL

Debby says...

Well it's almost the end of the year and the last issue of HQ Info-line, I wish you all a very happy and safe Christmas and look forward to hearing from you in the new year.

Headquarters will be open through the two short weeks between Christmas and New year, plus will be open on Monday 10th January. However will then be closed from 11th - 26th January.

Debby ZL2DL

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The Official Broadcast is Available From The NZART Web Site

If you want to catch-up on the latest Official Broadcast or just have a browse and listen, they are available on the NZART Web Site.

The latest broadcast is normally available on the NZART Web Site around 8.30 pm on the night of the broadcast. So if your contest activity or Bar-B-Queue happens during the time of the broadcast you can still hear it later from the NZART Web Site.

Two years of broadcasts are held on the NZART Web Site.

To access the **Official Broadcasts** go to URL:

<http://www.nzart.org.nz/h-quarter/broadcast/>

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AR NEWSLINE (USA) Gives ZL2BHF a Tribute

On the 11-DECEMBER-2010 Jim Meachen received a surprise when he received an e-mail from the American Amateur Radio News organisation NEWSLINE. Attached to this e-mail was a tribute to Jim's 25 years attachment to the NZART Official Broadcast from Bill Pasternak WA6ITF President, and Co-Founder of [Newsline](#).

The tribute can be heard by clicking on this [LINK](#).

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Digital Amateur Television (DATV) UPDATE - 2">

On Sunday, the 19th of December, 2010, a group of Wellington and Hutt Valley Amateurs simultaneously multiplexed four video and audio streams into one digital television transmission, having half the occupied bandwidth of the 4th of December test transmissions, reported in HQ [Infoline 220](#).

The DVB-T modulation format was used, which is receivable on a Digital Terrestrial TV receiver, or set-top box.

The first transmission was on the 70 cm band at a power level of 5 milliwatts; the second transmission was on Channel 39 (614 to 622 MHz) at a power level of 10 microwatts.

Further development and testing is planned, to confirm the compatibility of the transmissions with in-band and adjacent-channel services.

The team was led by Doug, ZL2TAR, assisted by Gavin, ZL2TVM, Dick, ZL2TGQ, and Phil, ZL2TIQ.

FMTAG Notes For 19-December-2010 Infoline

Proposals

The Radio Electronics Group has applied to move its 2-metre repeater to Peacockes Road, Topo50 map reference BD33 030.88 129.32. We have selected a repeater transmit frequency of 147.125 MHz and a repeater receive frequency of 147.725 MHz. An Engineering Evaluation shows that there will be no interference to other stations.

The Radio Electronics Group has applied to move its 70-centimetre repeater to Peacockes Road, Topo50 map reference BD33 030.88 129.32. We have selected a repeater transmit frequency of 438.875 MHz and a repeater receive frequency of 433.875 MHz. An Engineering Evaluation shows that there will be no interference to other stations.

SRD Interference to 70cm Repeaters

Please refer to page 28 Of November/December 2010 Break-In.

With reference to solution number 3, it may be necessary to add a CTCSS encode to the repeater's transmitter and a CTCSS decoder to the user's receiver, since the output frequency of an inverted repeater is within the frequency range of the SRD transmitters.

FMTAG has also received the following question:

"What is the likely interference range of a maximum power, legal, Short Range Device on the input frequency of a modern, full performance, Amateur repeater?"

The theoretical range, under free-space propagation conditions is about 160 km for a fully quieting input signal, and about 500 km for nuisance triggering.

However, under practical propagation conditions, including path obstructions, and the curvature of the Earth's surface, the interference range will be somewhat reduced.

December MED Licence Renewal - A Reminder

As at the close-of-business on Friday the 17th of December, Licence Fee payment had not been received at NZART HQ from the following Branch:

05 Christchurch

Final Recommendations to NZART Council

NZART Council, at its December 7th meeting approved the following application.

Branch 74 Wellington VHF Group has applied for a Spectrum Licence on TV Channel 39 for its Belmont ATV repeater, to replace its previous Radio Licence, cancelled by the MED as part of the Digital Switch-Over process. The location is Belmont, Topo50 map reference BQ32 568.79 398.86. All of the engineering parameters are unchanged from those of the cancelled licence.

Comments and Applications

Please send your comments and suggestions on the above matters, and on any other FMTAG matters, by e-mail to:

fmtag@nzart.org.nz?subject=FMTAG_INFOLINE

Applications for repeaters, beacons, digipeaters, point-to-point links, and so on, should be made on

the latest version of FMTAG Form 10. The latest versions of FMTAG Form 10, and the explanatory Form 10A, are available at:

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

Completed forms should be sent by e-mail to: fmtag@nzart.org.nz?subject=FMTAG_INFOLINE
END

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A Reminder About Contest Logs for the VHF-UHF Field Day Contest

The close-off date for submitting Contest Logs for the VHF-UHF Field Day Contest, held on the 4th and 5th of December, is fast approaching.

Any remaining Contest Logs should be submitted by email to:

zl2wa@clear.net.nz?subject=CONTEST_LOG

with Contest Log in the Subject line.

Many thanks

ZL2WA

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Updating Amateur Client Information

Radio Spectrum Management (RSM) have advised NZART that they have begun emailing Amateurs that have an email address in SMART requesting them to update their Client information.

RSM will send out around 500 emails a day to the 3500 Amateur clients that have an email address. The 500 figure was chosen because RSM did not want to provide a poor service by overloading their Contact Centre.

The email from RSM suggests that Amateurs log on and complete the updating themselves but RSM are expecting some phone calls to the Contact Centre.

RSM is already getting many email bounces from the first 500 emails sent. Clients that return an email bounce will get a letter in the New Year along with the approximately 2000 Amateurs who had no email address recorded in SMART.

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Let There be Light

IBM scientists have unveiled a chip technology called CMOS Integrated Silicon Nanophotonics, integrating electrical and optical devices on the same piece of silicon.

According to IBM, this means computer chips will be able to communicate using pulses of light instead of electrical signals, boosting power efficiency and speed, while miniaturising chips.

IBM claims CMOS Integrated Silicon Nanophotonics enables over 10X improvement in integration density than is feasible with current manufacturing techniques...

For more information please see:

<http://www.electronicnews.com.au/news/let-there-be-light>

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National System Award 2011

New Zealand Railway Stations

The railway network in New Zealand once had extensive coverage and service all over the country. The National System aims to provide wide coverage and reliable service to most of the country. New nodes are still being added to the system and we are not likely to be “pulling up the rails” anytime soon!...

Full rules are at:

<http://www.nzart.org.nz/activities/awards/national-system-award-2011/>

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New Zealand Amateur Radio Day

Purpose

The purpose of the New Zealand Amateur Radio Day is to promote our hobby to the public so that some may be encouraged to join the local club, take on classes and become amateur radio operators.

Time

From 1000-1200 hours local time annually on the 3rd Saturday of January

Location

Any prominent and public location where there is plenty of public foot traffic. The location will most likely require council (or other landowner) approval. Make sure this is sought and obtained in plenty of time as councils often have minimum notification times.

Logs

You are required to keep a log of all stations worked during the 2 hours. Logs must include the callsign of the station worked, time, frequency, and any other information you may like to include.

Callsign

Use of club callsigns is encouraged, however individuals may also set up a station using his or her own callsign.

Prior Publicity

For this exercise to be a success prior publicity is essential. Make every effort to publicise the event through local club magazines, local newspapers and other media outlets as much as possible.

Publicity on the day

As the aim of this exercise is to promote our hobby to the public, have material to hand out on the day. A liaison person or persons should be nominated for this task. People with good communication skills are recommended to take on this role. This person should have a thorough understanding of the systems and modes being used on the day as they will be inundated with questions. Cards, pamphlets and other such giveaways, with club representative contact details are a must. Get copies of the latest amateur radio promotional brochure from Debby at NZART

HQ. If you have a class coming up make sure the details are included on any handout material. Take down details of people who express an interest in the hobby and follow them up.

Contacts

Contacts are to be made with other NZARD stations, or home stations willing to work NZARD stations. Interested public should be encouraged to have a go on the air under direct supervision.

Bands and Modes

Operation on the day can be on any band and any mode. The national system, IRLP nodes, 80 and 40m would be recommended as a starting point for New Zealand based contacts. Digital modes and CW may also be used to attract interest.

Other Rules

While this is a field type operation, mains may be used if available.

Make sure your equipment is working and presentable to the public before the event.

Afterwards

Please write an activity report and submit it with your log to warren@zl2aj.com. There is no scoring of contacts made during the day. Activity reports will be submitted to Break In. It is imperative to follow up any names collected on the day. Invite them to a club night, or get them involved in activities. Encourage them to study and get a callsign. All this will help boost club membership.

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Banning AR Mobile Use in Canada?

RAC Bulletin 2010-039E - Distracted Driving Legislation Continues to be on Provincial Agendas; New Brunswick introduces Legislation Banning Cell Phone and Two Way Radio Use
2010-12-11

Provinces have a responsibility to legislate requirements respecting road safety on public roadways and the virtually ubiquitous use of cell phones for voice and texting communication has created new challenges for legislators. RAC agrees with the need for provinces to address cell phone use.

Most provinces [eg. Nova Scotia, Manitoba, BC, Quebec, Newfoundland and Labrador to name five] have chosen not to restrict the operation of mobile amateur radio equipment during driving. These governments have recognized the value of amateur radio to their citizens. Amateur radio has served the citizens of Canada during such emergencies such as floods, dangerous weather and ice storms, in support of public events such as Marathons and in support of agencies such as the Red Cross and a variety of provincial and municipal agencies across Canada. The support provided by amateur radio is frequent, freely given and in the highest standard of public service...

More at:

<http://www.nzart.org.nz/news/2010-news/dec-2010-news/#dec02>

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== + Spectrum Defense

WHAT ROLE CAN YOU PLAY TO DEFEND OUR AMATEUR RADIO SPECTRUM?

The third edition of Spectrum Defense Matters -- a newsletter aimed at keeping ARRL members

updated on issues related to the protection of Amateur Radio frequencies -- has just been released on the ARRL Web site. This newsletter covers both domestic and international topics related to the Amateur Radio spectrum. Your financial support is vital to continue the ARRL's work to protect your operating privileges. You can help protect these privileges by contributing generously to the 2010 ARRL Spectrum Defense Fund before December 31.

"The coming year will see the completion of preparations for the next World Radiocommunication Conference (WRC-12), to be held in Geneva in January and February 2012," said ARRL Chief Executive Officer David Sumner, K1ZZ. " We hope for favorable outcomes on the agenda items we care about -- but that will not be the end of it. This WRC will recommend an agenda for the next one, later in the decade. Will that agenda pose serious threats to amateur spectrum? Will it include the possibility of new or expanded amateur allocations? The answers will depend in part on work being done on your behalf today, in Geneva and within regional telecommunications organizations that cover the globe."

This edition of Spectrum Defense Matters includes articles on how the IARU works with the world's six regional telecommunications organizations, a look at how the FCC's National Broadband Plan could affect the Amateur Radio Service and a message from ARRL Chief Technology Officer Brennan Price, N4QX, outlining many of the ways the ARRL advocates for the defense of your spectrum.

Read more here

<http://www.arrl.org/news/what-role-can-you-play-to-help-defend-our-amateur-radio-spectrum>.

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A Reminder For Conference Awards

Amateur of The Year AoTY

Award to be made to the radio amateur who in the preceding 12 month calendar year (January to December) has given outstanding service to Amateur Radio.

Details are found at:

<http://www.nzart.org.nz/activities/awards-conference/amateur-of-the-year/>

Arthur (Jumbo) Godfrey

The purpose of this award is to remember one of New Zealand's most well known radio amateurs, who fully supported NZART Inc and branch level activities, in the belief that strong branches meant a strong national organisation.

Details are found at:

<http://www.nzart.org.nz/activities/awards-conference/arthur-jumbo-godfrey/>

Young Amateur of The Year (Y AoTY)

To Recognise The Young Amateur of the Year. Last award given out in 2005.

Details are found at:

<http://www.nzart.org.nz/activities/awards-conference/young-aoty/>

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Web Update

Added to NZART Web - Branches/Central

A new Web Site link belonging to the Wellington Amateur Radio Club, NZART Branch 50 has been added to the NZART Web. Also added is a link to a project belonging to the Wellington ARC and that is the Quartz Hill Project. The links for these two can be found at:

<http://www.nzart.org.nz/branches/central/>

Jamie Pye ZL2NN

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Weird and Wonderful

Life a Number of Centuries Ago

Houses had thatched roofs-thick straw pile high, with no wood underneath. It was the only place for animals to get warm, so all the cats and other small animals (mice, bugs) lived in the roof. When it rained it became slippery and sometime the animals would slip and fall off the roof.

Hence the saying, "It's raining cats and dogs."

There was nothing to stop things from falling into the house. This posed a real problem in the bedroom where bugs and other droppings could mess up your nice clean bed. Hence, a bed with big posts and a sheet hung over the top afforded some protection.

That's how canopy beds came into existence.

Most people got married in June because they took their yearly bath in May, and still smelled pretty good by June. However, they were starting to smell, so brides carried a bouquet of flowers to hide the body odour.

Hence the custom today of carrying a bouquet when getting married.

From Shacknews, Newsletter From Highveld ARC South Africa

<http://www.nzart.org.nz/council/promotion/#shacknews>



You-Are-Doing-It-Wrong!

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Information Sources

Wireless Institute of Australia ([WIA](#)),
The Radio Amateurs of Canada ([RAC](#)), and
American Radio Relay League ([ARRL](#))

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Upcoming Events

1. New Zealand Amateur Radio Day
<http://www.nzart.org.nz/activities/events/nz-amateur-radio-day/>
2. Te Puke Amateur Radio Club Inc. Sale 5-March-2011
<http://www.nzart.org.nz/activities/events/te-puke-arc-sale/>
3. Wellington EXPO-11 & VHF Convention 23-April-2011
<http://www.nzart.org.nz/activities/events/expo-2011/>
4. UPPER HUTT NZART Conference 2011 -
Pre-registration Prize Draw and Update
<http://www.nzart.org.nz/activities/events/2010-upper-hutt-conf/>

Contest News

VHF/UHF/SHF Contest 2011

VHF++ DX Weekend Contest (1st SAT FEB) 05/06-FEB-2011
The rules are at: <http://www.vhf.org.nz/VHF-UHF-SHF-ContestRules>

Contest Calendar 2011

Contest Name	Date(s)
2011 Ross Hull VK VHF (Logs in by 14-FEB)	ALL-JAN-2011
VHF++ DX Weekend Contest (1st SAT FEB)	05/06-FEB-2011
***Boat Anchor Sprint (2nd SAT FEB)	12-FEB-2011
2011 PACC (Dutch) DX Contest	12/13-FEB-2011
ARRL CW	19/20-FEB-2011
Jock White Field Day (last full WE FEB)	26/27-FEB-2011

***Future Contests

In the results, received from ZL2KH, for the Nostalgia Night Contest, held on Saturday, 11 September 2010 there was a footnote that said:

"Because of a lack of participation, Mike ZL1MDS and Barrie ZL2LA have decided that Boat Anchor Sprints and Nostalgia Night contests will be cancelled in the meantime."

Housekeeping

1. **Break-In-Closing Date Reminder:** Copy for the JANUARY/FEBRUARY issue of Break-In-closes on 10-JANUARY-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-Yearly Contents Index:** Can be found from 1947 at:
<http://www.nzart.org.nz/assets/breakin/index/all-bi-index.html>
5. **Break-In AREC Column:** The close-of-copy date is the 03-JANUARY-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
6. **The ARRL and WIA Weekly News:** Can be found at:
<http://www.nzart.org.nz/news/2010-news/>
7. **Subscribe to and Un-Subscribe From Infoline:** Please go to web at:
<http://www.nzart.org.nz/join/e-mail-lists/join-infoline-list/>

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

Next HQ-Infoline e-mailed on SUNDAY 23-JANUARY-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 that are obtained from various amateur 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/>

Past and present Infolines can be found at:

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

Where HTML, PDF and DOC formats can be found for the 2010 e-mailed Issues of Infoline.

A yearly timetable of when to expect the Official Broadcast and Infoline can be found at:

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

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