



# Headquarters - Info - Line

... a service from ...

The New Zealand Association of  
Radio Transmitters Incorporated



NZART Headquarters Info Line Issue 158  
6 APRIL 2008

Greetings Everyone

Welcome to Headquarters-Info-Line a twice-monthly bulletin of news from NZART Headquarters e-mailed directly to Branches and to others that subscribe through the NZART Web Site. This bulletin is also distributed on the amateur radio packet network.

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**OFFICIAL BROADCAST THIS MONTH IS ON SUNDAY APRIL 27 2008**

**NEXT HQIL IS TO BE E-MAILED ON SUNDAY APRIL 20 2008**

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## From The NZART Business Manager Debby ZL2TDM

Debby says...

FMTAG Form 10 applications: Just a reminder to all branches that in line with Council policy, all applications for repeater and beacon changes will incur a fee and be invoiced accordingly from NZART. Doug ZL2TAR will determine the amount of which on receipt of your application and when it is to commence.

The application will not proceed until payment has been received; therefore it is important to advise both Doug and myself on sending payments and what they are for.

Recently I received a cheque in the mail and I wasn't sure why - to save any embarrassment please let us know. I like getting money, but I would hate to apply it to the wrong branch.

Branch circulars and voting figures: These will be posted next week, included will be the rules applying to the newly founded ZL1HV Arthur "Jumbo" Godfrey award - this is an opportunity to recognize branch members who have generously contributed their time and talents to your branch that otherwise would not be recognized. There can be three recipients annually and a special medal will be presented to either the nominee or a representative of the branch at the AGM in June.

MED change of address: Once again I remind you that all changes to address details must be advised both to me and the MED. Details of how this can be done are in the latest issue of Break In.

Talk soon...Debby ZL2TDM

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## **FMTAG NOTES FOR APRIL 2008**

NZART Council approved publication of these notes at its April 2008 meeting, for the information of, and seeking comments from, NZART members.

### **D-STAR (AND SIMILAR DIGITAL MODES)**

D-Star is a digital transmission mode for voice and data, developed by the Japan Amateur Radio League (JARL). Complete D-Star equipment, and the UT-118 adaptor module (38 mm x 30 mm) for existing equipment, are currently available for the following D-Star modes:

DV mode (digital voice and low speed data), having an RF occupied bandwidth of about 6 kHz.

DD mode (digital data, which can include embedded digital voice), having an RF occupied bandwidth of about 150 kHz.

Several other digital modes are under development, with similar, or wider, RF bandwidths. The narrowband modes have RF bandwidths of, up to, 16 kHz; the wider modes, for use above 1240 MHz, have RF bandwidths of, up to, 250 kHz.

Digital transmissions are noise-like when received on conventional receivers. Many conventional receivers produce open-mute, full amplitude, noise, depending on the design of the receiver's mute detector, when tuned to a digital transmission. This means that digital transmissions should not be allocated the same frequencies as conventional transmissions, as they could cause much annoyance during band openings.

The DD mode is also used for local and intermediate-distance linking. Backbone linking, having an RF occupied bandwidth of about 10 MHz, is also being developed in some countries.

These digital modes are not currently included in the published NZART Bandplan. Please see the proposed modifications to the Bandplan, in the Interim Recommendations, below.

### **INTERIM RECOMMENDATIONS TO NZART COUNCIL**

Branch 06 Tararua has applied to increase the power of its Wharite 665 repeater, located at map reference NZ260 T23 529016. The repeater transmit frequency is unchanged at 146.650 MHz and the receive frequency is unchanged at 146.050 MHz. An engineering evaluation, in accordance with MED publication PIB38, confirms that there will be no interference to other stations.

### **D-STAR (AND SIMILAR DIGITAL MODES) SIMPLEX**

It is proposed to modify the table at the bottom of Page 4-12 of the 2007-2008 Call Book by adding the following:

144.550 MHz narrow digital mode simplex of up to 16 kHz RF bandwidth.  
432.550 MHz narrow digital mode simplex of up to 16 kHz RF bandwidth.  
1296.550 MHz narrow digital mode simplex of up to 16 kHz RF bandwidth.  
F+0.550 narrow digital mode simplex of up to 16 kHz RF bandwidth.

1294.125 MHz wide digital mode simplex of up to 250 kHz RF bandwidth.

### **D-STAR (AND SIMILAR DIGITAL MODE) REPEATERS**

Narrow mode (such as, but not limited to, D-Star DV mode) repeaters can be accommodated within the existing narrowband FM (NBFM) repeater band segments, provided that the particular channels are not shared with NBFM repeaters. The input and output frequencies will usually be site-specific, chosen during engineering compatibility certification, as described in MED publication PIB38 (available on the MED web site).

Wide mode (such as, but not limited to, D-Star DD mode) repeaters (which occupy the equivalent of ten contiguous NBFM repeater channels) can be accommodated in the 23 cm band within the existing repeater segment, provided that the particular channels are not shared with NBFM repeaters. The input and output frequencies will usually be site-specific.

### **D-STAR (AND SIMILAR DIGITAL MODE) LINKING**

Wide mode (such as, but not limited to D-Star DD mode) linking, and wider bandwidth linking, can be accommodated in the 3 cm band.

It is proposed to modify the bar-graph part way down the right-hand column of Page 3-3 of the 2007-2008 Call Book by adding the following:

Linking. 10,000 to 10,050 MHz and 10,400 to 10,450 MHz.

#### **FINAL RECOMMENDATIONS TO NZART COUNCIL**

None this month.

#### **COMMENTS AND APPLICATIONS**

Please send your comments and suggestions on the above matters and recommendations, and on any other FMTAG matters, by e-mail to [fmtag@nzart.org.nz](mailto:fmtag@nzart.org.nz) or by mail to FMTAG, c/- NZART, PO Box 40-525, Upper Hutt.

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 from the above address, in paper or electronic versions, or on the NZART web site:

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

Completed forms should be sent by e-mail to [fmtag@nzart.org.nz](mailto:fmtag@nzart.org.nz) or by mail to FMTAG, c/- NZART, PO Box 40-525, Upper Hutt.

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#### **2008 Conference Activities**

As you will all hopefully be aware the NZART Conference is in Dunedin this year.

For those that are attending we have a couple of additional activities planned.

- (a) A visit on the Monday to Shag Valley Station, site of the first Transworld Radio contact, with its memorabilia collected by the Bell family, and
- (b) A mobile rally, also on the Monday.

What we would like Conference attendees to do is to indicate reasonably soon, which of these additional activities they would like to participate in. We need a fair indication of the likely numbers for planning purposes.

They can register their interest on our website,

<http://www.zl4aa.org.nz/>

Branch 30 celebrates its 80th Birthday this year so we look forward to meeting you all at Conference and that you all can take in a bit of history at Shag Valley.

The Conference Committee

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#### **DayBreakerR Rally 2008**

Hi everyone.

The DayBreaker® Rally Organising Committee met on Wednesday 12 March 2008 which I attended. AREC has once again been asked to provide radio communications for Start, Finish and Mid-point tracking. AREC will also be operating within the Rally HQ. Tararua District Radio Club Incorporated Branch 06 has again been confirmed as the host club for organising amateur radio communications throughout the course this year.

The date for the DayBreaker® Rally has been confirmed for Saturday 11 October 2008 and will follow the same course as last year covering roads within the Tararua and Manawatu Districts with a full day of rallying thrills and spills.

This year's Rally will be significant in that it attracts four special events:

1. 2008 will see the DayBreaker® Rally celebrate 25 years;
2. 2008 DayBreaker® Rally will be the final round of the Rally Extreme® Championship;

3. 2008 DayBreaker® Rally will be the final round of the North Island Rally® Series;
4. 2008 Tararua District Radio Club Incorporated celebrates 80 years of service to the community.

An early invitation is extended to operators interested in being part of this year's Rally so mark the date on your calendars now.

What you will need: A mobile VHF or UHF or a dual band radio fitted into your vehicle with appropriate antennae. You will need to advise me which you have so that you can be placed at the appropriate location for your radio. If your radio is at the doctors but you are still interested in taking part please let me know so that we can try and organise something for you.

A Radio Operators Rally Manual will be sent out to those involved in the Rally again this year and are mostly complete but am awaiting confirmation on a couple of items from the DayBreaker® Rally Committee including a new and updated course map. While it is envisaged that we will use the same frequencies as last year, the use of both fixed and STSP repeaters have not yet been confirmed.

As with past years, reimbursements will be available again this year for those operators who are registered and involved within the Rally at the designated radio points. The DayBreaker® Rally Committee have reiterated that reimbursements will only be available for those operators registered with the Rally and involved on the day, funding constraints DO NOT ALLOW for reimbursements for pre-Rally activities.

**PLEASE NOTE:** It is a requirement of the DayBreaker® Rally Safety Plan that ALL participants [including radio operators] involved within the Rally are registered for the event. As one of the confirmed officials for the DayBreaker® Rally, I will be collating the necessary information from operators involved on the day and submit this to the DayBreaker® Rally Committee for reimbursement approval. Registration of radio operators consists of your name and contact details which will be logged through myself to the Rally Committee.

A total of 30 operators are required for DayBreaker® Rally on Saturday 11 October 2008 so the earlier we can confirm a full complement, the sooner I will be able to advise the DayBreaker® Rally Committee if we can man all required radio locations or whether they will need to order more Fleetlink radios in.

Once again thank you to everyone who was involved with DayBreaker® 2007 and I look forward to hearing from those interested in this year's event.

Regards, Stephen Cooper ZL2WAU/ZK8EH  
Official Communications Coordinator  
DayBreaker® Rally 2008

N.B. This is the first official Radio operators 2008 DayBreaker® Rally publication approved for release.

Web sites

[rosewoodvilla@xnet.co.nz](mailto:rosewoodvilla@xnet.co.nz)

[cdradio@tararua.govt.nz](mailto:cdradio@tararua.govt.nz)

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

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### **NZART Radioscience Education Trust Grants for 2008**

The Trustees would be most grateful Branch members could bring these grants to the notice of science teachers in their areas.

### **Grants for 2008 Distribution**

Applications are invited from secondary school science teachers for Grants-in-Aid from the NZART Radioscience Education Trust to promote the development of projects in the general areas of radio and/or electronics. It is expected that these projects will lead to entries in the local area Science & Technology Fair. For the 2008 distribution grants not exceeding \$250 are envisaged.

Applications should be received no later than 30th April 2008. Application forms maybe obtained from; The Trustees, NZART Radioscience Education Trust , PO Box 1733, Christchurch or from

<[trustee@nzart.org.nz](mailto:trustee@nzart.org.nz)>. For more information see

<<http://www.nzart.org.nz/nzart/nzart/trustweb.html>>.

Applications should be endorsed by the Head of Science.

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### **Contest News**

## VHF Contests

### THE NEXT CONTESTS

The next contest is the Hibernation Contest, 50 MHz and above, on Saturday the 7th and Sunday the 8th of June 2008. The operating times are: Saturday 1700 to 2300 NZT and Sunday 0700 to 1300 NZT.

The rules are available at:

<[www.nzart.org.nz/nzart/update/contests/vhfcontestrules0606.html](http://www.nzart.org.nz/nzart/update/contests/vhfcontestrules0606.html)>

All contest logs should be sent, to arrive within two weeks, to:

[zl2wa@clear.net.nz](mailto:zl2wa@clear.net.nz)

or:

Contest Manager, Wellington VHF Group, P.O. Box 12-259, Thorndon, Wellington

The rules are available at:

<[www.nzart.org.nz/nzart/update/contests/vhfcontestrules0606.html](http://www.nzart.org.nz/nzart/update/contests/vhfcontestrules0606.html)>

All contest logs should be sent, to arrive within two weeks, to:

Contest Manager, Wellington VHF Group, P.O. Box 12-259, Thorndon, Wellington

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### HF Contests

Having a quick listen around the lower bands on last Saturday evening didn't really create the impression of particularly favourable conditions for the CQWW WPX SSB Contest. Because of family considerations I was unable to repeat the effort on the Sunday. The Solar Flux and K Index data tended to the view that conditions would have been challenging for those taking part.

A couple of interesting contests of an international flavour this week are the SP (Polish) DX Contest (CW & SSB) and the EA RTTY Contest, details of which are included in this bulletin.

SP DX Contest: 1500Z, Apr 5 to 1500Z, Apr 6

Find rules at: [http://www.contest.spdxc.org.pl/reg/reg\\_g.html](http://www.contest.spdxc.org.pl/reg/reg_g.html)

EA RTTY Contest: 1600Z, Apr 5 to 1600Z, Apr 6

Find rules at: <http://www.ure.es/hf/concursos/earthy/basesearthyingles.pdf>

### THELMA SOUPER MEMORIAL CONTEST (WARO)

This weekend, details are :-

Saturday, 5th April 2008 - 2000 NZDT until 2200 NZDT and again

Sunday, 6th April 2008 - 2000 NZST until 2200 NZST

Please note the Sunday evening's times are expressed in post Daylight Saving Time - the changeover to NZ Standard time occurring earlier on the Sunday morning. I had an individual contact me as he/she was most concerned the previous bulletins and Break In failed to point this out.

Modes :- CW and SSB

Band :- 80m

Good Luck to those YLs, XYLs and OMs taking part. Why not have a go in this contest, which has been established to commemorate an eminent WARO member, now sadly a Silent Key.

Logs :- Refer previous Contest This Weekend Bulletins for log submission and scoring information.

### FORTHCOMING NZART CONTESTS

#### SANGSTER SHIELD QRP CW CONTESTS

When :- Saturday, 17th May 2008 and Sunday, 18th May 2008

Time :- 2000 NZST until 2300 NZST each evening

Band :- 80m

Mode :- CW only

Refer to NZART 2006/7 Callbook, Page 5-4, or NZART Website -

<http://www.nzart.org.nz/nzart/update/contests/> for update Contest Operating Information.

NZART's oldest Contest established in 1927 to reward the excellence of efficiency of low power operation. This is a friendly contest and your support would be most welcome - don't be put off by it being a CW only activity, most operators will adjust their CW sending speeds to match those of your speed.. Give it a go, you never will now the mysteries of CW contesting until you try it.

## FORTHCOMING NZART CONTESTS

### 2008 NZART MEMORIAL CONTEST

When :- Saturday, 5th July and Sunday 6th July.  
Time :- 2000 NZST until 2300 NZST each evening.  
Modes :- CW and SSB  
Refer to NZART 2006/7 Callbook, Pages 5-4 and 5-5, or NZART Website -

[www.nzart.org.nz/nzart/update/contests/](http://www.nzart.org.nz/nzart/update/contests/) for Contest Rules and updated Contest Operating Information.  
Logs to be forwarded to myself, ZL1BHQ - NZART Callbook address OK - by 7th August 2008.

The Memorial Contest was established post World War II to commemorate ZL and other Hams who lost their lives in the Second World War in the service of their country. A Contest that caters for all Amateur Radio HF activity interests.

### 2008 VK/TRANS-TASMAN CONTEST

When :-	80m Phone -	10 May 2008
	80m CW -	24 May 2008
	160m Phone -	5 July 2008
	160m CW -	19 July 2008

Times :- 0800 UTC to 1400 UTC each evening.

Contest rules and operating information is available from the Contest Website :-

<http://home.iprimus.com.au/vktasman>

However, the WIA also covers in detail this contest and their website appears more user friendly for accessing the contest information and requisite downloads :-

<http://www.wia.org.au>.

### OTHER FORTHCOMING CONTESTS

JIDX CW Contest	0700Z, Apr 12 to 1300Z, Apr 13
Yuri Gagarin International DX Contest	2100Z, Apr 12 to 2100Z, Apr 13
UBA Spring Contest, SSB	0600Z-1000Z, Apr 13
Holyland DX Contest	0000Z-2359Z, Apr 19
SP DX RTTY Contest	1200Z, Apr 26 to 1200Z, Apr 27
Helvetia Contest	1300Z, Apr 26 to 1259Z, Apr 27
JIDX CW CONTEST - ALL BANDS 2008	0700Z, 12 APRIL 2008 TO 1300Z, 13 APRIL

A popular contest worthy of ZL support in appreciation of the JA Hams support of our Oceania Contests. The hours do not appear to be too onerous so perhaps if the weather is inclement next weekend, or you have a bit of "free time" it would, I am sure, be appreciated by our JA friends if you can participate, even for a short time, in this contest.

That's about all for this week. To those participating in either the Polish CW Contest, or the Spanish RTTY Contest good luck and trust the band conditions are better than last weekend.

73, John Powell ZL1BHQ, NZART Contest Manager  
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### Break-In/HQIL Information

#### Break-In Closing Date Reminder

From the Editor Break-In, Official Journal of NZART Inc.

"Copy for the MAY/JUNE issue of Break-In closes on 10th MAY 2008.

Early receipt of copy is much appreciated. Thanks. John ZL3IB, Editor"

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### Auto-Subscription and Un-Subscribe

To Subscribe: It has never been easier to subscribe to the Info-Line distribution list and have Info-Line sent to you direct by e-mail. Just check into the NZART web page:

<http://www.nzart.org.nz/nzart/Lists/index.html> of the NZART Web.

Supply your name, call sign and e-mail address and that's all you need to do. You will receive an e-mail confirmation of your auto-subscription.

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at the end of this newsletter if you are having difficulties.

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**Dates for Official Broadcast (OB) and Head Quarter's Info-Line (HQIL)**

OB at 8pm Sunday: 2008 Apr-27 May-25 Jun-1-29 Jul-27 Aug-31 Sep-28 Oct-26 Nov-30 Dec-21

**\* NZART Official Broadcast Sunday APRIL 27 2008 \* and  
\* Next HQ-Info-Line e-mailed on Sunday APRIL 20 2008 \***

HQIL on Sunday: 2008 Apr-6-20 May-4-18 Jun-8-22 Jul-6-20 Aug-3-17 Sep-7-21 Oct-5-19 Nov-9-23 Dec-7-21

Regards, Jamie Pye ZL2NN, Editor [zl2nn@nzart.org.nz](mailto:zl2nn@nzart.org.nz)