



<p><b>October - December 2010</b></p> <p><b>Vol 12 Issue 4</b></p> <p><b>- QRM -</b></p> <p><b>The Bi-Monthly Magazine of the Redcliffe and Districts Radio Club Inc</b></p>	<p><b>Amateur Radio Stations VK4RC &amp; VK4IZ</b></p> <p><b>REDCLIFFE and DISTRICTS RADIO CLUB Inc PO Box 20 Woody Point Queensland 4019</b></p>
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**Bits and Pieces**

The national field day was on 17 April 2011 at ?? The AGM is on the horizon if you are thinking about running for a club position.

**Future Events: Tech Talks**

- April - Kevin VK4UH – Norfolk Island DX expedition January 2011.
- May - Roger – VK4ZLQ / Peter VK4EA – Stubb Filters – See them this weekend on Moyle
- June - AGM
- July - John VK4YJV - Metallurgy
- August- James – VK4TJF – Filters & RFI at home stations



Kitchen Area



20 Metre Beam

**DENTURES**

David Close VK4DC

<p><b>New Dentures</b></p> <p><b>Repairs</b></p> <p><b>Relines</b></p> <p><b>Mouthguards</b></p> <p><b>Health Funds</b></p> <p><b>Veterans Affairs</b></p>	<p>2 Waterford Place Bridgeman Downs. 4035 <b>3862 8700</b></p> <p>also at 113 Brighton Road, Shop 6 Laurel's Arcade. Sandgate <b>3869 3361</b></p>
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**Engineering, Chemistry,  
Geology, Metallurgy**

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The John Moyle field day is one of the clubs major events. Many members see the competition as an opportunity to operate rare DX due to the electrically quite nature of the Murrenbong camp site. A listen to the clubs 80 metre net on Sunday nights will hear many complaints of S7 to S9 noise levels. The club has been acquiring equipment to be able to set up stations on the HF bands and not having to rely on member's contributing their own gear.



40 Metre station being assembled for packing into transport boxes at the club rooms

The rules allow for a club station to be set up in as 800m diameter circle, the camp site has a diameter of about 70 metres presenting interesting challenges to minimise interference. To add to interference problem the club uses amplifiers to take advantage of the maximum legal power output. The broad band nature of the modern solid state receiver in a rig presents us with these technical challenges to minimise interference. In previous years receive band pass filters for specific bands and strategic placing of the wire antennas on 160, 80 and 40 metres have been utilised.

This year tuning stubs were constructed from 213 co-axial cable to attenuate the signal on the bands that were not being used. The use of an amplifier is to have the maximum legal power available and to reduce the transmit duty cycle on the HF rigs as the amplifiers are fed with 25 watts. The operator uses a head set in conjunction with a voice caller to call CQ. Note book and lap top computers with a call logging program are used to record contacts. The stations operate on twelve volts utilising 200 amp hour batteries to drive the equipment.

These batteries are topped up by solar panels and portable 240 volt generators using power supplies. The antennae for 20 metres was a three element beam with a four element beam on 15 metres.

The station for each frequency is assembled at the club and checked. The components are then put into a box and a taken to the camp site. The individual bands were set in the following way.



The roll of 213 coaxial cable is a tuning stub



Equipment being assembled

### OUT at the CAMP SITE



80 Metre station

80 metres: Icom 718 transceiver, Ameritron 500 watt amplifier, MFJ rotary inductor tuner into a twin doublet in conjunction with an 80 metre band pass filter and a tuning stub, a 200 amp hour battery with a 20 amp power supply, and a note book computer connected to a wireless local area network. Shaun VK4FY was operating the station at the start of the competition.



#### 15 Metre Station

15 metres: Icom 847 transceiver, 500 watt Ameritron amplifier, 4 element manually rotated beam, band pass filter and tuning stub, and a 200 amp hour battery in conjunction with a 35 amp power supply and a note book computer for call logging. Peter VK4TAA was operating the station at the beginning of the competition.



#### 20 Metre station

20 metres: Icom 708 transceiver, 500 watt Tokyo hi power amplifier, 3 element manually rotated beam, band pass filter and tuning stub, and a 200 amp hour battery in conjunction with a 20 amp power supply and a laptop computer for call logging. Cory VK4KA was operating the station at the beginning of the competition.



40 Metre Station

40 metres: Yasu FT 1000MP transceiver, Tokyo Hi power amplifier, rotary inductor antenna tuner into a twin doublet, band pass filter and tuning stub, and a 200 amp hour battery in conjunction with a 20 amp power supply and a laptop computer for call logging. Charlie VK4YZ was operating the station at the beginning of the competition.



160 Metre Station



### 10 Metre Station

160 metres: Elecraft K3 transceiver with the associated equipment was used with Andy VK4KY being the operator.

10 metres: Icom 706 with the associated equipment operated by Glen VK4FZ

The club wishes to thank Andy and Glen for supplying the equipment for the 160 and 10 metre stations. The club also extends a special thanks to Roger VK4XP, Peter VK4EA, Mal VK4UMS

Saturday night reminded us the wet season was still present when 125mm of rain was deposited on the camp site. The ground became greasy and umbrellas and rain coats were the order of the night. The stations kept working and making contacts. Reports of rain from in from VK2 and other parts of VK4

At the time of writing the contacts for 160 and 10 metres were not available.

Band	Contacts	points
80	201	402
40	366	770
20	177	444
15	32	66
Total	776	1682

**Repeaters**

VK4RRC 146.925, 438.325

**Club nets**

146.925 Sundays 1900 Local time

3618 Sundays 1945 Local time

438.325 Wednesdays 1930 Local time

**CLUB CONTACTS**

President	David Close	VK4DC
Secretary	Peter Richardson	VK4TAA
Treasurer	Peter Schrader	VK4EA
Vice President	Kevin Johnston	VK4UH
Vice President		
Webmaster	Shaun O'Sullivan	VK4FY
Echolink	Shaun O'Sullivan	VK4FY
IRLP Sysop	Shaun O'Sullivan	VK4FY
Education Officer	Alan Jenner	VK4KZ
QSL Manager	James Fleming	VK4TJF

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Next Month:

Monthly meeting.

Think about the AGM in June, Would you like a job?

Fox Hunt

*Essential but mundane*[president@redclifferadioclub.org.au](mailto:president@redclifferadioclub.org.au)[secretary@redclifferadioclub.org.au](mailto:secretary@redclifferadioclub.org.au)[treasurer@redclifferadioclub.org.au](mailto:treasurer@redclifferadioclub.org.au)[vice1@redclifferadioclub.org.au](mailto:vice1@redclifferadioclub.org.au)[vice2@redclifferadioclub.org.au](mailto:vice2@redclifferadioclub.org.au)[webmaster@redclifferadioclub.org.au](mailto:webmaster@redclifferadioclub.org.au)[echoirp@redclifferadioclub.org.au](mailto:echoirp@redclifferadioclub.org.au)[echoirp@redclifferadioclub.org.au](mailto:echoirp@redclifferadioclub.org.au)[education@redclifferadioclub.org.au](mailto:education@redclifferadioclub.org.au)[qsl@redclifferadioclub.org.au](mailto:qsl@redclifferadioclub.org.au)

I am a little late with this issue. I am always on the lookout for stories, if you have any please contact me.

Regards

Editor

Chris VK4ANI