

QRM

BULLETIN ISSUED BY THE NORTHERN
BRANCHES OF THE WIRELESS INSTITUTE
OF AUSTRALIA, TAS. DIVISION.

P.O. BOX 1010
LAUNCESTON
TAS. 7250

March 1976
Vol. 5 NO. 11

REGISTERED AT GPO HOBART
for transmission by post
as a periodical. CATEGORY B.

PRICE 40c

MEETINGS

March 9th North West Branch Annual Meeting
Lakin Hall, Ulverstone 8 p.m.

March 12th Northern Branch Annual Meeting
State Emergency Service Rooms
Charles Street 8 p.m.

Y.R.C.S. MEETINGS

March 13th Kings Meadows High School 10 a.m.
March 27th

March 6th
March 20th Lakins Hall Ulverstone 2 p.m.
April 3rd

CONTESTS

March 6th-7th ARRL DX Phone
March 6th-7th YL-OM CW
March 20th-21st ARRL DX CW
March 27th-28th CQ WW WPX SSB
March 27th-29th BARTG Spring RTTY

Wireless Institute of Australia, AGM. 3rd April.

EDITORIAL

At the last Northern Branch meeting there were discussions regarding members joining the State Emergency Service. While in no way do I wish to "knock" the S.E.S. we should think seriously about the future of WICEN in this state and whether or not it would be better to properly organize WICEN and offer its services to S.E.S. as a going concern. The W.I.A. Tas. Division now has a liason officer with S.E.S. i.e. Brian Morgan VK7RR, so I would ask all members to seriously consider the best course of action and make the decision which is in the best interests of the W.I.A., W I C E N and S.E.S. After all we have the equipment, the ability to service it and the capabilities to operate it and a state wide net which should take very little organisation.

NORTHERN BRANCH NOTES:

The last meeting of the Northern Branch was held in the State Emergency Service Rooms in Charles Street. These rooms were certainly more spacious and suitable than the Civil Defence Rooms. (In my opinion.) There are a few minor problems with these rooms e.g. is there enough chairs? You have to bring your cup for supper. Since the Civil Defence no longer exists there could be some doubt about clubrooms, so if you have not seen the S.E.S. rooms, I would suggest you come to the next meeting and find out for yourself whether or not they are suitable and be prepared to make a decision as to where we are going to meet. There is plenty of car parking available in the car park in Paterson Street just opposite Repco. On the last meeting some equipment was shown by Col VK7KW - a fantastic 1.5-30 mhz transceiver that does everything but the talking and Mike VK7KW showed us his latest equipment, that is a 6 metre S.S.B. had held transceiver. and also a 2 metre S.S.B. had held transceiver. It is a pity that more people did not show an interest in them. The next meeting will include an Auction of Roge Greenwoods Amateur equipment and also any gear other amateurs bring along. So see you there.

73's Graeme VK72GG

VHF Notes By Joe VK7ZGJ

Two metres has been the most active VHFband for the past month, with numerous openings to VK3.

Early in the month the VK3VF beacon was audible for about two weeks along with CH4&1 coming through. Major openings took place on 3rd & 4th where over two dozen stations were worked. One station VK3ZDR Neville was only running 5W while others were using IC202's bare foot. On the 17th stations worked included 5ZCH near Mt. Gambia and again on the 28th. David VK32HY was worked on 6&2m. during the day, then in the evening Kevin worked numerous VK3's.

Two six metre openings were recorded during the month. On the 10th Bob VK5PB was worked the opening lasting about an hour. Then again on the 16th. The band was open for most of the evening to VK5. On the 29th ZLTV was watchable in colour for over 30 minutes although nothing was heard of their beacon.

During the equinox is an ideal time to keep a close ear to the band as you may work the northern hemisphere, don't forget the beacons around 50-50.1MHz at the same time 27MHz is an early warning of a possible opening in 6.

Best of DX 73 Joe.

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Contact G.D. Reardon VK72GG

2 Trent St. Youngtown

Phone 469455.

HF Notes

Commonwealth CW Contest 1976. (the old BERU)
1200z 13th March, to 1200z 14th March.
As you already know, this contest is between stations in the British Commonwealth areas, (III) in all. G.GW.GM ect' being grouped as one.

VE stations have monopolised the top placings in recent years- 7 in the first 10 in 1975-. as they have the numbers across the country, and at times, when intercontinental ~~x~~ propagation is not suitable they are very busy contacting each other, while we in VK are struggling to contact the comparatively few VK and ZL stations that are active in this contest.

Our hope is for more VK activity, not only in the periods when G, VE, West Indies and African stations are being contacted but in the "off" periods when VK stations can work only ZL on 3.5 2I and 28 Mhz (other contest bands are 7 and 14 Mhz.).

VK entries in 1974 numbered 7. In 1975 entries rose to 26 let us try for 50 in 1976.

Conditions during February have again been erratic on the three higher bands, with good openings on most evenings after sunset on 14 Mhz. signals being usually weak but appearing from most quarters. 2I and 28 Mhz have only been tuned over at the weekends but 2I seems to come in and out strongly at times, if you stay with it some good DZ can be worked. The three lower bands have been producing good DX if you dig down below the third layer of VK and ZL activity those stations who can work split frequency can have a ball on 3.5 and 1.8 after sunset, those fixed transceivers can however be put to very good use down in the CW portions.

7LZ and I would like to hear of anyone who heard the PYO. CEO, or the VP8, during February.

VR8B was worked from Fiji as 3D2KG, he will probably be on from Narua by now, I don't know where Lloyd is going to after Narua, but QSL cards for him are handled by Yasme.

LA5ZQ Jan requires one more Vx7 for his WAVK award so look for him most days around 1030Z on approx 14.140.

G3ZPU/VK3 Jim, is working for Joe's firm in VIM, He will be getting on 144 soon.

Trevor has been working on a QRP linear using 25KV rated caps, Hi.

Max 7CA is thinking of putting some AM signals on the HF bands, after listening to some of the mal adjusted speech compressors used by some stations a return of some AM would be worth listening to Psst, anyone got a UM3 transformer .

73. Frank 7BC.

Q.R.M.

MARCH, 1976

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LADIES PAGE

Six metres is open, and it's started again,
Malcolm raced for the study yelling "where is that pen",
The buzzing, the crackling, the twiddling of knobs,
I sighed and lamented - Oh well, there go the jobs!

Zl's coming in, he shouted in glee,
And a P29 - I can't believe it - yippee!
The cat stirs a little, the children all scatter,
The hours pass, and night falls and still he does natter.

Spare chair in the corner as we all enjoy tea,
It's ready I've called out - many times - Oh dear me!
The ear phones are on, concentrations the word,
But I learn at long last - he just hasn't heard.

I repeat he's a dear, and I love him of course,
And on that score I have no remorse,
For better or worse I married that man,
But my advice to young girls is - NEVER MARRY A HAM!

STOP PRESS Margaret Salier

BULK BUY*** BULK BUY *** BULK BUY *** BULK BUY

I.C. 22 2 METRE FM TRANSCEIVER.

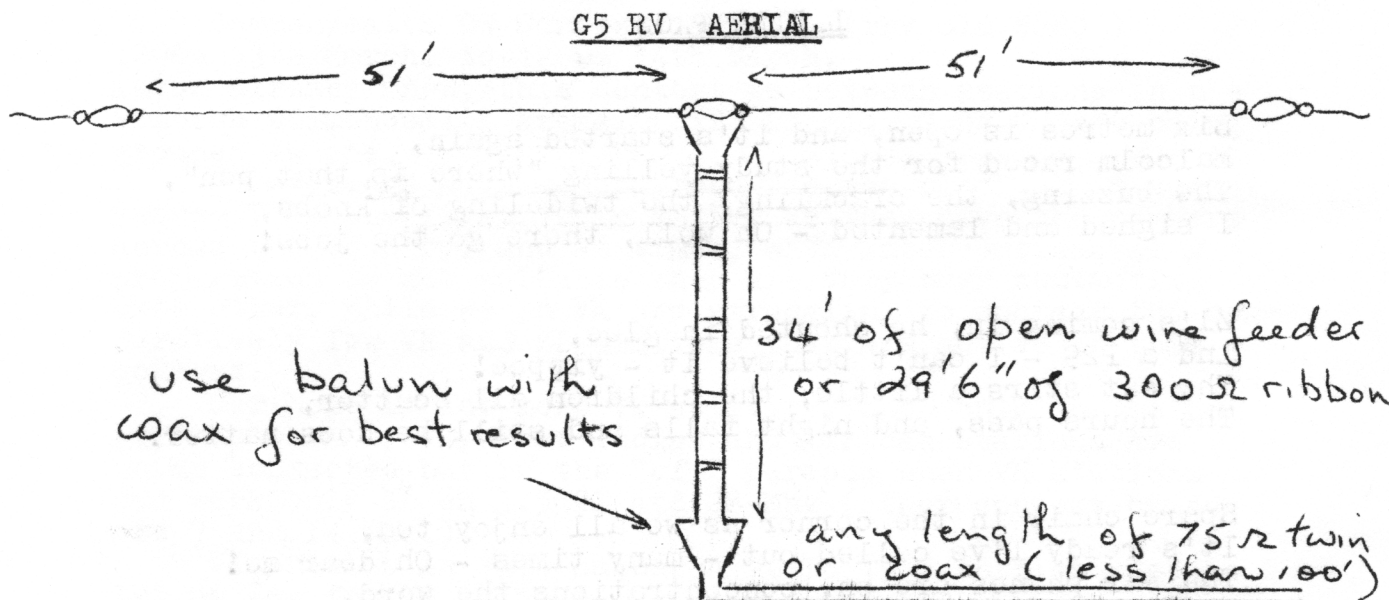
\$165 WITH SIX CHANNELS FITTED 1,2,3,4,B, 50.

Contact Brian VK7RR

PHONE 237488 during business hours

237454 after hours.

MUST BE ORDERED BEFORE FRIDAY 12th MARCH.



These are the dimensions of the full size G5 RV aerial. For half size version, the dimensions of the flat-top and matching stub are scaled proportionately.

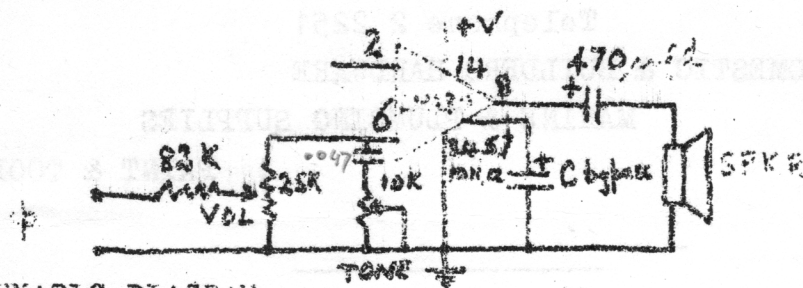
The matching stub should preferably be of open wire feeder because of lower losses, especially at 21 and 28 mhz and its length should be 34'; but if 300 ohm ribbon is used allowance must be made for the velocity factor of this type of twin lead. Since this is approximately 0.88 the actual physical length of the 300 ohm ribbon stub should be 29'6". This matching stub is intended to resonate as a half wave impedance transformer at 14 mhz.

The 102 feet long flat top may have 10' of each end dropped vertically (or semi-vertically) to save space thus reducing the length to 82 feet.

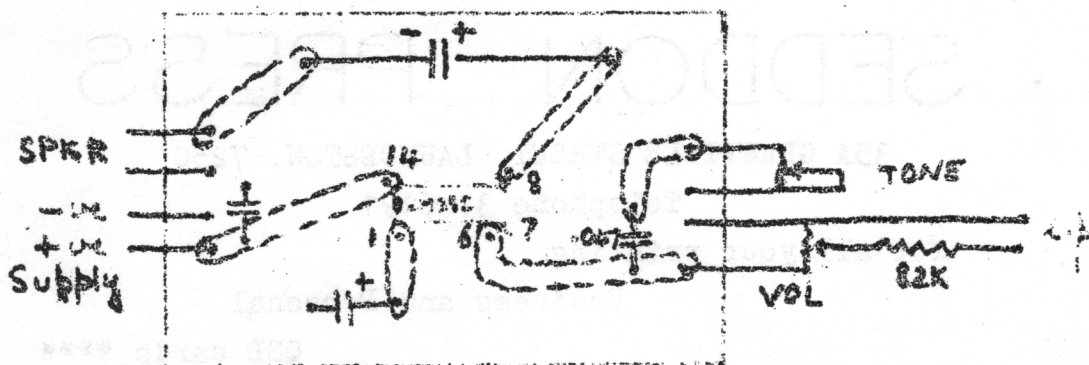
To avoid unwanted radiation from the coax feeder if used, a wide range balun should be inserted at the end of the matching stub.

Incidentally the "Man himself G\$RV" suggests the aerial will work on 3.5 mhz at a VSWR of 10 to 1 but this figure may be reduced to 5 to 1 on 3.5 mhz by "pruning" the co-ax. He also adds "Contrary to general belief a U.S.W.R. of up to 5 to 1 on a length of co-ax up to about 100' at the frequencies considered here, results in negligible loss of power.

LM380 IC 2WATT AUDIO AMPLIFIER



SCHEMATIC DIAGRAM



PRINTED CIRCUIT BOARD COMPONENT LAYOUT.

- Notes:**
1. Use 4 ohm load for 6 to 12 volt supply, and 8 ohm load for 12 to 18 volt supply.
 2. PCB is adequate heat sink for 2.5 watts up to 25°C and 1.5 watts up to 70°C.
 3. The bypass capacitor from pin 1 to earth can be: 0.047mfd manufacturers recommendation.
0.47mfd for -18db @ 100Hz
4.7mfd for -38db @ 100Hz
for power supply ripple rejection.
(Figures supplied by VK3ALW)

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