

QRN

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

P.O. BOX 1010
Launceston
TAS. 7250

November 1975
VOL. 5 No. 6

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

PRICE 40c

MEETINGS

- November 11th North west Branch Meeting Lakin Hall
Ulverstone 8 p.m.
- November 14th Northern Branch Meeting Civil Defence Rooms
Bourke St. 8 p.m.

Y.R.C.S. Meetings

- November 8th
&
November 22nd Kings Meadows High School 10 a.m.
- November 8th
&
November 22nd Lakins Hall Ulverstone 2 p.m.

Contests

- November 6th-7th YL Anniversary phone party
- November 8th-9th European RTTY DX
- November 9th Czechoslovakian
- November 8th-9th ARRL CW sweepstakes
- November 22nd-23rd ARRL phone sweepstakes
- November 29th-30th CQ WW DX CW

Coming Events

- December 6th & 7th Hamfert at Richmond.
- December 13th (Saturday) Northern Meeting Bar-B-Que
at QTH of Joe VK7 ZGJ
- December 31st New Year Barbeque at QTH of Gordon VK7GW

Northern Branch Notes

The October meeting of the Northern Branch was held on the 10th October at the Bourke St. Civil Defense Rooms. Visitors welcomed included Peter Turner and from the Northwest Coast Graeme Rand, Ian Ellings, Adrian Sherriff and Ian Somington.

A letter was received from the council re our proposed clubrooms and has been reprinted elsewhere in this issue. It will be discussed further at the next meeting so work out your ideas, committ them to paper and pass them on to Brian V.74BY or Ed VK7HL. A letter was also received from the Divisional Secretary regarding donations to Federal Funds and the meeting has decided that the Northern Branch will pay its share of the donation provided donations already received from members is refunded.

It is with regret that the resignation of Kevin VL7ZAH from the position of treasurer was accepted, Kevin is finding the workload too heavy while his studies continues. Peter VK7PD was unanimously elected to the position for the remainder of the financial year.

The treasurers report shows sales for August of \$3,404 and for September of \$1,004 and a bank balance of \$1,269.71.

The Northern Branch has voted \$50 to the Northwest branch for the establishment of the Northwest repeater. - The latest rumour suggests it may be on channel 6 with the southern repeater on channel 3

The venue for the Wine & Cheese tasting evening in February is at this stage still undecided.

The mini hamfest was mentioned and a note put on the minutes to begin organisation in late March. If the ladies have ideas for entertainment at the mini fest they will be very welcome and could be passed on to any member of the executive.

Notes VIA Bob VK7ZRF

North-west Notes

The big event in the North-West this month was our meeting which was held at the home of associate J.Davis. Following a short meeting, a tour of Jims museum of radios and projectors was given. This was followed by an unbelievable supper thanks to Jim XYL. I did not attend so I can give few details but knowing Jim as I do all those who missed it missed something extremely worthwhile. We hope Jim will continue giving the history of radio a place in todays world.

Don't forget next month our lecture on Gunsmithing will be one also worth attending. See you all there.

Graeme 73's

LADIES PAGEORANGE RICE

- 1 large can orange juice;
- 1 oz. sugar
- 2 oz. rice

Put orange juice and sugar in pan. Add rice and cook steadily until rice has absorbed all the juice and is soft. (about 20 minutes). Stir occasionally. Serve cold topped with whipped cream or ice cream.

Graeme's YL

November 1975

Q.R.M.

page 4

PROPERTY 34 BOURKE STREET - PROPOSED

CLUB ROOMS.

2nd October, 1975.

MR. H.E. Hewens,
Wireless Institute of Australia - Tasmanian
Division,
P.O. Box 1010,
LAUNCESTON. 7250.

Dear Mr. Hewens,

Further to your letter of the 11th July, I can now advise that the proposed lease would contain the following provisions:-

- A term of 20 years at a rental of \$10.00 per annum, for the site of the proposed extension, with right of access thereto.
- Your Institute to prepare plans and specifications and obtain a building permit, and complete the works to the satisfaction of the City Architect & Planner within a period of 12 months.
- That the light and power for your part of the building be the responsibility of your Institute, through a separate switchboard.
- That the activities of your Institute will not disturb other users of the building.
- That your Institute agrees to support and participate in the Communications section of the Launceston Area Civil Emergency Service.

On receipt of your confirmation of intention to proceed, the Council's Solicitor will prepare the formal documents.

Yours faithfully,

for C.A. ALLEN.,
Town Clerk.

VHF NOTES

The DX season is just around the corner, if your gear is not operating, how about working on it now so that when the Stations are calling CQ you will be their to answer their call.

I had no contacts on 6 this month although I have heard stations calling "CQ" on a Sunday morning on 52.050 also Wally VK2ZNW on 52020.

A six meter beacon has been constructed for the northern area and is to be situated at st'Leonards. This will run 25 watts to a Dipole aerial on a frequency 52.4 mhz with 850 CPS FSK.

We are awaiting PMG approval, once this is obtained the unit will be operational.

Two meters is also quiet although the VK3 repeaters have been heard during the Month. Hope to have better news next month. 73 JOE.

Bob VK7ZRF has been transmitting ATV on 432 MHZ and pictures have been received at Evandale from Bob's Perth QTH At first in the North?

FOR SALE x x x FOR SALE x x x FOR SALE x x x FOR SALE x x x

1. Galaxy 550 w pep HF SSB Transceiver, PSU, SWR Meter and Mike. \$300.00 o.n.o.
2. 1GL 5w Mobile CH1,4,B. \$100.00 o.n.o.
Steve Fraser VK7OA.
137 Penquite Rd. Launceston Phone 443383
or 48 Quayle St. Sandy Bay.

FOR SALE

AR7 Receiver complete with all coil boxes \$40.00

WANTED TO BUY

Advance Signal Generator Model 62 or similar

Joe Gelston

40 Lavender Grove Phone 443882

GETTING STARTED ON OSCAR COMMUNICATIONS

Most amateurs by now will have heard about the amateur satellites -oscar 6 and 7- at present orbitting our planet, some of you no doubt have already heard or have had QSO's via them, possibly others would like to but don't know when or where to listen, if you dear readers are one of these then read on, there's no special time to start - thats up to you.

What you must know is when oscar is in range and next where to point your beam, that is if you want to transmit. (If you only want to listen almost any old aerial will do).

There are only three articles needed pencil, paper and your lastest copy of 'Amateur Radio'. Under the heading Project Australis you will find a list of figures for both oscar 6 and oscar 7 and you will notice that all the degrees (°W) are under 80° and as the oscars are only workable here from 160° to 240° you will realize that some adjustments have to be made.

First take the figure shown in the degrees column for the day you intend to listen and add to it 115, if the answer is 160 or above you will know the satellite is in range. Now take the time for the same day and add to it 7 hours 40 minutes. This gives you the time the satellite passes the equator on the orbit you will hear BUT there will be a further time lag because the satellite is travelling north from the equator on the evening passes, so you will have to wait until it goes over the northern hemisphere and down over Antarctica and its then we can start to listen.

As a complete orbit takes one hour fifty five minutes we will have to add to the answer we got after adding 7 hours 40 minutes to the time shown in 'AR' a further period of time which will be less than the time of a complete orbit, this time will vary with the degrees of the orbit and can be taken from Table 1.

160°	add 1hr 39 mins	185°	add 1 hr 33 mins
165°	" 1 " 37 "	190°	" 1 " 33 "
170°	" 1 " 36 "	195°	" 1 " 32 "
175°	" 1 " 35 "	200°	" 1 " 32 "
180°	" 1 " 34 "	210°	" 1 " 31 "

220 to 240° add 1 hr 30 minutes.

Lets work out an example --

On April 15th 1975 'AR' quotes the following figures for oscar 7

ORBIT	TIME Z	LONG ^{OW}
1884	0137	74°
First the degrees	74	
Add to this	115	
Answer	189	

cont.

PAGE 7

(as this is above 1600 the satellite will be in range)

Now the time	1 hour 37 minutes
add	7 " s 40 "
answer	9 hours 17 minutes

From table 1; for 189° we find the time 1 hour 32 minutes so this also has to be added

Plus	9 hours 17 minutes
	1 " 33 minutes

and the answer is 10 hours 50 minutes Zulu
and the orbit 1888.

Its as simple as that but if you want to know where to point your beam these bearings will be near enough.

160°	East
170°	from SE to NE
180°	to 200° from SSE to approx N

The 200° pass is directly overhead and from there around to 230° you swing your beam westerly

210°	to 220° from S to NW
230°	to 240° , " S to W

The period of time you should hear the satellite will be
For 160° approx 10 minutes
" 170° " 15 "
" 180° to 225° approx 18 to 20 minutes
and between 225° to 240° the time drops back to only 13 minutes.

In the examples used you start to listen at 10 hours 50 minutes Z with your beam pointing SSE, the satellite will be in range for approx 18 minutes and you beam from SSE to N in that period.

To hear an earlier or later pass all that is necessary is to subtract or add 29° to 189 in the example shown and subtract or add 1 hour 55 minutes to 9 hours 17 minutes and continue on from there with the necessary adjustments for the new times and degrees as already explained.

Oscar 6 receives signals between 145.9 and 146 mhz and retransmits them in the segment 29.45 to 29.55 mhz on Monday, Thursday and Saturday nights.

Oscar 7 in mode A receives signals between 145.85 and 145.95 and retransmits them between 29.45 to 29.55 mhz. In mode B input frequencies are between 432.125 and 432.175 and the output down link frequencies are between 145.975 mhz. Oscar 7 operates every night and uses the above two modes on alternate nights.

All the above info is for the evening passes only however this is where most of the activity is and it will give you all the dope you require to get started on the satellites providing you have 'AR' -- and you should all have that.

Col VK7LZ

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