

QRM

June
1987



Newsletter of the Tasmanian Division
of the
Wireless Institute of Australia

(Insert in 'A.R.')

Postal Addresses:

Tasmanian Division: P.O.Box 1010, Launceston, 7250.
 Northern Branch: P.O. Box 275, Launceston, 7250.
 Northwest Branch: P.O. Box 194, Penguin, 7316.
 Southern Branch: P.O.Box 123, Sandy Bay, 7005.

WIA Divisional Council 1987/88:

President:	P. Frith	VK7PF	181, Punchbowl Road,	(W) 918288
			Launceston, 7250.	(H) 430152
Secretary:	R. Harwood	VK7RH	52, Connaught Cres.	319608
			W. Launceston, 7250	
Treasurer/	B. Dilworth	VK7BD	4, Anson Street,	(W) 321276
Membership			Waverley, 7250	(H) 391505
Broadcast	John Rogers	VK7JK	1, Darville Court	002 293402
Co-ordinator			Blackman's Bay 7152	
Federal	Joe Gelston	VK7JG	P.O.Box 1311,	003 272256
Councillor			Launceston, 7250	
Councillor	John Webster	VK7KDR	166 Bass Highway,	(W)004 301667
			East Penguin	(H)004 372112
Councillor	Noel John	VK7EG	30 Spencer Street	004 318490
			Burnie 7320	
Councillor	Bob Richards	VK7NRR	14 Kinross Road,	(W)003 319866
			Invermay, 7248	(H)003 262401
Councillor	M. Wilson	VK7ZWW	17, Pyrie Street,	002 281942
			Newtown, 7008	

Northern Branch Officers for 1987/88 are:

President: Graeme VK7ZGG. Vice-President: Mike VK7MA.
 Secretary: Rick, VK7ZZ. Treasurer: Bob VK7NRR.
 Broadcast co-ordinator:
 WICEN co-ordinator: Phil, VK7JJ.
 QSL co-ordinator: Col VK7LZ.
 Education Officer: Peter, VK7ZPN.

Next two Northern Branch meetings: June 12th. July 10th

Northwestern Branch officers for 1987/88 are:

President: John, VK7KDR. Vice-Pres: Greg, VK7ZBT.
 Secretary: Tony, VK7AH. Treasurer: Bruce, VK7MB.
 QSL's: Steve, VK7EQ. Activities: Greg, VK7ZBT.
 WICEN: John, VK7ZPT. Stores: Rob, VK7KAB.
 Repeater: Andrew, VK7ZAP. Broadcast: John, VK7KDR.

Next two N.W. Branch meetings: June 9th July 14th.

Southern Branch Officers for 1987/88 are:

President: Keven, VK7KV. Vice-Pres: Barry, VK7RS.
 Secretary: Stewart, VK7NXA. Treasurer: Phil, VK7BZ.
 Repeater co-ordinator: Anthony, VK7ZTA.
 WICEN: Alan, VK7CI. Stores: Mike, VK7ZBW.

Next Southern Branch meeting: June 3rd. July 1st.

How does one assess the success or otherwise of an Amateur Radio Convention? Do we look at the number of amateurs attending? Do we listen to the comments on the broadcast callback, especially the usually very frank 80m callback? Or do we look merely for the smiling faces during the event?

By any of these yardsticks it seems that TARC 87 held at Penguin High School on April 4th was the success we all hoped it would be. We had 64 licensed amateurs sign in at the reception desk and maybe half a dozen more slipped through the net. Although we did not set out to cater particularly for the public, we nevertheless had a pretty good number taking the opportunity of seeing what amateur radio is all about. It is estimated that about 200 people all told spent some time studying the displays and demonstrations.

The organisers were very happy to note the attendance of a number of amateurs who are not seen too much at Institute functions these days. We hope this means we shall see more of them in the future.

It also appears that the idea of a one-day TARC was well-received because we heard only one complaint (comment?) on this subject. Apparently the chance to sleep the night in their own beds appealed to a number, judging from the callbacks the following morning. One wonders in whose bed they might have slept if they'd had to stay overnight. HI.

The ladies had a "Withdrawal room" in which they could get away from it all, and to which men were not admitted. They also had the opportunity to play carpet bowls at the next door Sports Centre. Some must have availed themselves of this facility because reports had it that they had an enjoyable but exhausting time.

List of amateurs attending TARC 87 (in no particular order):

VK7NJP	VK7WJ	VK7WP	VK7AX	VK7KNS	VK7KAB	VK7EQ	VK7ZJH
VK7ZBW	VK7NXA	VK7EG	VK7WN	VK7ZPT	VK7ZAP	VK7MB	VK7ZST
VK7EM	VK7ZDV	VK7OL	VK7ZWG	VK7RS	VK7YP	VK7JK	VK7ZRP
VK7KU	VK7CF	VK7AV	VK7KDR	VK7KJL	VK7QF	VK7DP	VK7PL
VK7KKV	VK7RN	VK7FR	VK7MA	VK4CAT	VK4BDY	VK7ZTA	VK7ZBX
VK7CI	VK7GC	VK7KCK	VK7BD	VK7PF	VK7NRR	VK7KY	VK7VK
VK7ZHA	VK7ME	VK7NJ	VK7NBL	VK7ZGG	VK7AI	VK7BV	VK7AK
VK7JG	VK7CW	VK7ZBT	VK7ZRD	VK7FD	VK7AH	VK7NCO	VK7PD
VK7SF							



Activity Centre
- last Tuesday
night!

FOR SALE

FOR SALE

FOR SALE

FOR SALE

VK7ZT, Greg, has for sale the following two items:

1. ASR33 110-baud ASCII teletype, price \$50.00
2. Tandy MC 10 Colour Computer with cassette recorder and software, price \$55.00.

Greg is QTHR, businessphone 002.204340. Home phone 002.390160.

RTTY MAILBOX in the NORTHWEST.

It is with pleasure that we report that the RTTY Mail Box testing is proceeding well. With the experienced assistance of Eric VK3OK and Clive VK3BUS, Andrew VK7ZHA has a working system up and going. Although still under evaluation, the system is performing very well, averaging about 40 accesses per day. The number of files is growing, as is the proving of the area of coverage. Stations from as far east as Scottsdale are regular users, as are some of the areas in Launceston previously regarded as not able to access VK7RAD - they are finding that communication IS possible! Andrew VK7ZAP was observed operating mobile from our WICEN exercise at Wynyard, proving the value of both the system and the practical use of RTTY. By mobile, we MEAN mobile - the gear was self-contained in the vehicle in the middle of a paddock!

Codes for operating into the device are as follow:

For File 1... Help

Your transmissions must begin with a short pause, end with +? and have no breaks. If it does not respond to +? try inverted commas "?

Commands.....

- (1) FILES +?
- (2) INPUT (FILENAME) (SPACE OR C/R) (YOUR MESSAGE) +?
- (3) OUTPUT (FILENAME) +?
- (4) ERASE (FILENAME) +?
- (5) STATUS +?
- (6) ECHO: (YOUR TEST MESSAGE)

BRACKETS ENCLOSE VARIABLE DATA. DO NOT ACTUALLY TYPE THEM.

TYPE OUTPUT README +? FOR EXPANDED INFORMATION

+?

The system will respond with VK7ZHA-MAIL indicating end of the transmission.

The above should be enough to start you into the system, the expanded information giving you more to go on with. Should you require more info, Andrew is QTHR and would be delighted to hear from you.

SO YOU WANT TO CONTACT THE EDITOR?

His name is John Rogers. His callsign is VK7JK. His telephone number is 002.293402. His address is:

1, Darville Court,
Blackman's Bay,
Hobart, 7152.

And when you lose your copy of "QRM", remember he's QTHR. When he is at home, the 2m rig is normally running and listening to Repeater 2.

WICEN SOUTH

Exercise "HUON" which took place in the Arve Valley on 11-12th April had five objectives and as four out of the five were achieved the exercise was deemed to be reasonably successful. The fact that everyone seemed to enjoy themselves was an added bonus.

The exercise findings were as follows:

OBJECTIVES

A: Propagation from the floor of the valley on 80m could reach virtually any part of the State provided an effective antenna was used.

B: V.H.F. (2m) contacts up to 15km. through the valley were achieved but for consistent communication with the mobiles the satellite stations obviously needed some elevation.

C: Due to the lack of manpower we were unable to set up repeater 4 for linking with repeater 2.

D: The group did sustain the 24 hour exercise with the exception of a short period in the early hours of the morning!!.

E: Technical problems in some areas gave the controllers an opportunity to test the flexibility of the net. The group responded well and constant communication was maintained.

MESSAGE HANDLING

In the 24 hours 132 written messages (2640 words) were sent and received. A comparison of the final copies with the originals indicated only five errors were made. These were all of a minor nature, eg "and the etc".

Analysis of the message times of origin and receipt showed average transmission time from the Mobiles to H.Q. was 5.36 minutes and H.Q. to Mobiles 8.05 minutes.

It was agreed that Amateur procedure is not formal enough for this type of operation so an approach has been made to Army Sigs. for assistance in the form of some lectures. More about this later.

TECHNICAL

All stations need to have been tested in the role they expect to play prior to the exercise.

A technical group is needed to investigate the development of a suitable hard copy link between WICEN base and H.Q..

FUTURE EXERCISES

It is planned to run one major exercise per year but a number of minor operations involving one or two sections of the group at a time will be necessary to test various aspects of the net.

Next years exercise is already in the planning stage and just may contain a surprise or two!.

MEMBERSHIP

We now have 28 registered members:

VKVAL, VK7AW, VK7BG, VK7DQ, VK7DS, VK7CI, VK7FT, VK7JK, VK7KJ, VK7KR, VK7KV, VK7LJ, VK7RQ, VK7VV, VK7YP, VK7NBF, VK7NCH, VK7NXA, VK7KBA, VK7KJA, VK7ZA, VK7ZBZ, VK7ZDV, VK7ZGK, VK7ZJH, VK7ZMH, VK7ZST, VK7ZTA.

New members will be very welcome.

VK7CI Alan Southern Tasmanian Co-ordinator

D.o.C. Information.

(Please note: these are extracts from a letter which has been included in recent broadcasts, but which may be useful to have in more permanent form.)

From D.o.C. to Federal Secretary.

Referring to paragraphs 6.55 and 6.56 of the Amateur Operator's Handbook..... The Department has decided to relax the conditions applying to relays, recording and replaying transmissions. Accordingly, I am pleased to advise that from 25th March 1987, Australian amateur stations may engage in re-transmissions (relays), recording and replaying of transmissions asubject to the following conditions:

1. When retransmitting another amateur station's transmissions, the licensee of an amateur station shall:
 - (a) not do so without the originating station's consent;
 - (b) remove the originating station's callsign from the retransmissions; and
 - (c) insert their own station identification before and after each transmission, indicating that it is a retransmission of another station.
2. If the originating station is recorded for subsequent retransmission purposes, the licensee shall ensure that such transmissions comply with conditions (a) to (c).

D.HUNT,
Manager, Regulatory Operations Branch
Radio Frequency Management Division, Canberra.

Radio Amateurs' Old Timers' Club.

(A note from Joe, VK7BJ).

The Radio Amateurs' Oldtimers' Club will hold its June "Gabfest" on Tuesday, June 9th at the Waratah Hotel in Murray Street, Hobart. Members and intending members are invited to roll up from noon onwards to have a chat while enjoying a counter lunch.

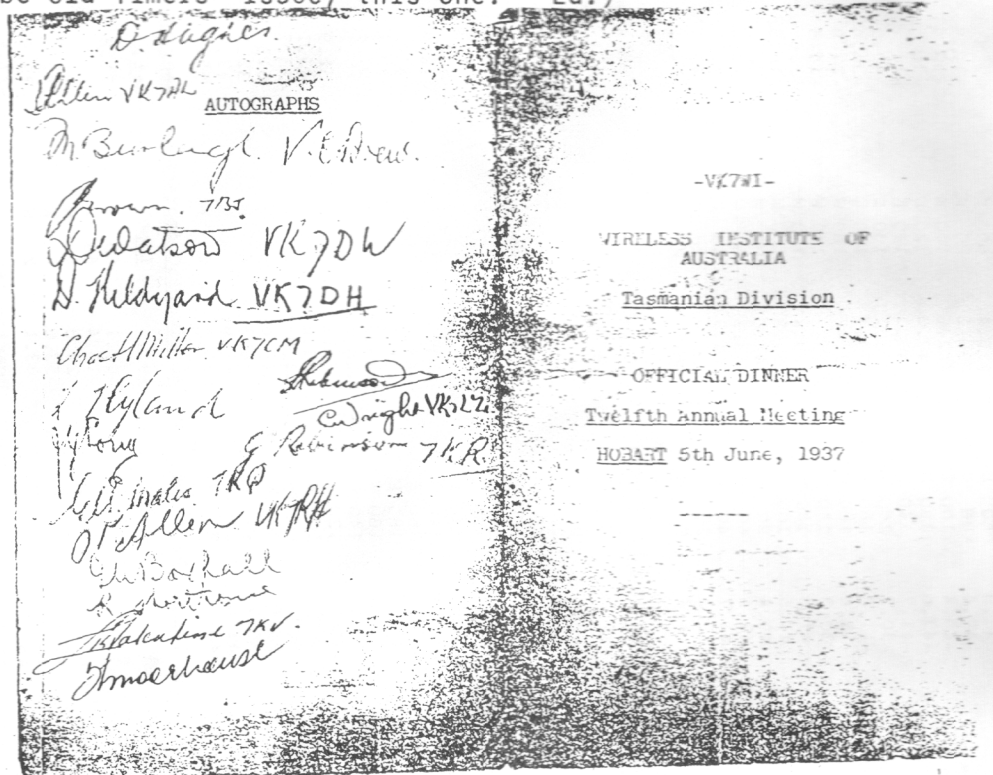
Anyone who has held or has been qualified to hold an amateur licence for 25 years or more is qualified for membership. For any enquiries, contact VK7BJ, VK7GB or VK7KA. VK7BJ has a few membership application forms for anyone wanting one.

More or less on the same subject, you may like to know that the Federal version of the R. A. O. T. C. holds a monthly net and call back on the first Monday of each month starting at 10.00 E.S.T. Three frequencies are used for the News Bulletin and call back, each one using the OTN callsign. They are: 7060 KHz, 3624 KHz and 145.700 MHz. There is also a transmission on 14150 KHz so that ZL and distant Australian stations may receive the News Bulletins but there is no callback on this frequency. At 12.00 E.S.T. the long haul net and callback from VK6 will be on 14150 KHz using VK60TN.

"50th. Anniversary of Something-or-other"

(A note from Don Hughes). I enclose the Menu and Toast List of a Dinner held exactly 50 years ago. It suggests that this month just must be the anniversary of something-or-other and the 50th at that! Perhaps someone could fill us in on the details of that dinner and prepare us for a repeat celebration.

(Seems to be Old Timers' issue, this one! - Ed.)



TOAST LIST

THE KING

THE INSTITUTE

Proposed by E.J.G. Bowden
(Deputy Radio Inspector)
Response H.M. Moorhouse
(Secretary Tas. Division)

The P.M.G.'s. DEPARTURE

Proposed by F.W. Hedhurst
Response E.J.G. Bowden
(Deputy Radio Inspector)

THE VISITORS

Proposed by A.E. Allen
Response G. Miles

Me-an-U

SOOP

Broom Soop(er)

FISHER

Hocker's Cod(s)

PALTRY-(VERY)

Spurred Rooster

JOINTS-(BADLY SWEATED)

Roast Buck
Red Foley Kow
Gill-Ham

SPUDS

Strained
Baked
Boiled

SOURS

Pop's Pudden Kow Juice
Long Odds

NECK OIL

Miles Be're
T H2O
Ohm sweet Ohm

USING A WALL MAP TO FIND DIRECTIONS

Having no map suitable for finding bearings so that the H.F. beam may be aimed in the right direction I decided to attempt to find a convenient method of doing this. The commonest map available cheaply is the Mercator projection type and having a large one of these I decided to plot the great circle paths for different bearings from the home QTH on it. Since this involves tedious calculations by normal means I resolved to use the computer at work. In addition when the programme was written I could simply re-run it with the origin for any place in the world.

The result is the set of figures based on Launceston (although it is generally accurate enough for all of Tasmania). The bearings are at 15° intervals and each pair of data is a point on the relevant great circle. By plotting all of the points for one bearing, that particular great circle may be drawn. Each one is a sine curve, symmetrical about the equator. Note negative latitudes refer to the Southern Hemisphere. The zero bearing is a north south line through Launceston and the other focus of the lines.

A (very) rough map has been included to show how the finished product should look. It is not intended to be used and is not particularly accurate although unless your beam is extremely sharp it would serve for this. If anyone wants a set of figures based on some other location they may contact me directly.

With acknowledgments to: VK 700

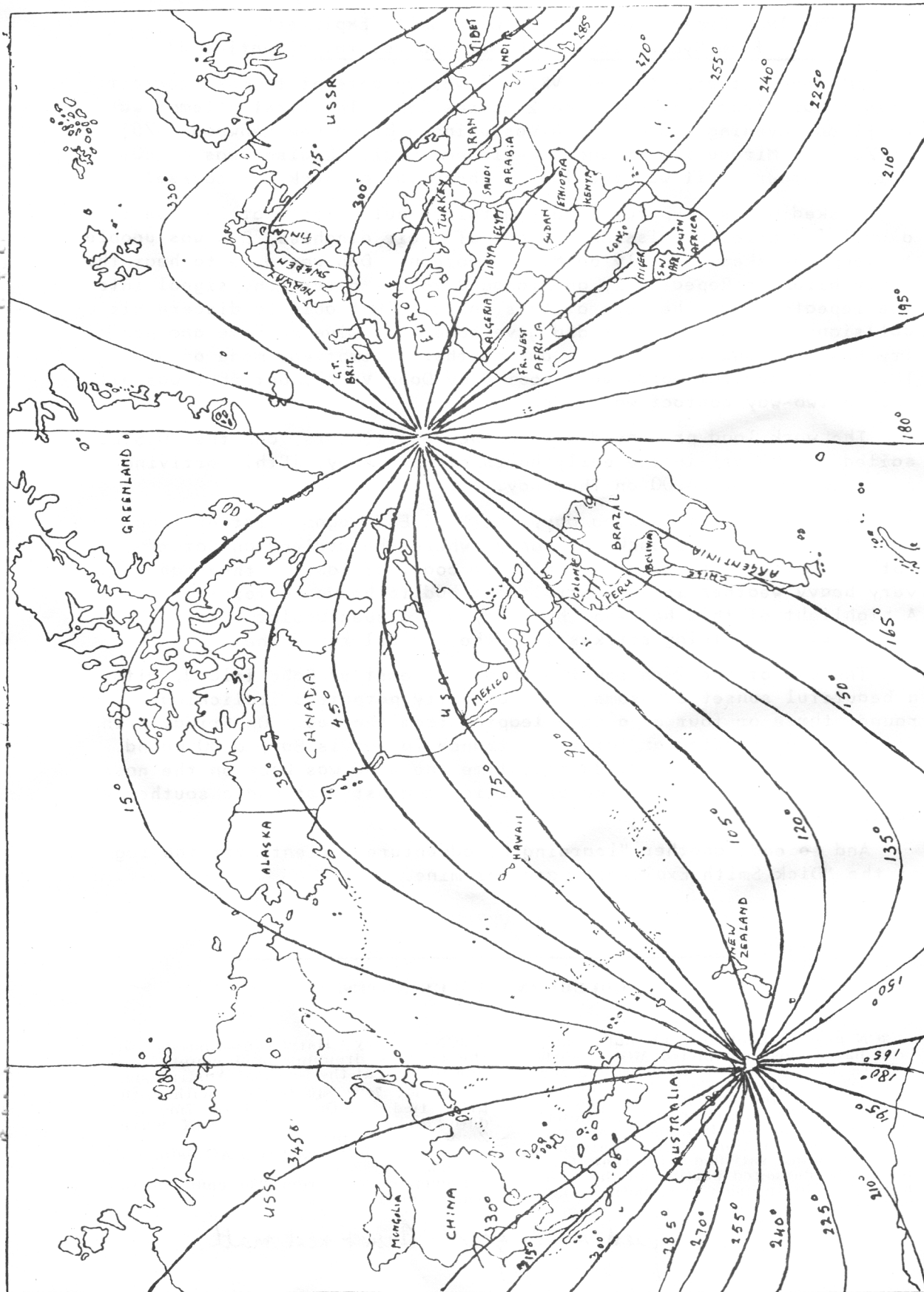
(from "QRM" Sept. 1974)

Bearing 15 degrees.			Bearing 30 degrees.			Bearing 45 degrees.		
Lat.	Long.		Lat.	Long.		Lat.	Long.	
-63.1	Ø	E	-28.5	Ø	E	-3	Ø	E
-73.8	20 E	20 E	-53.1	20 E	20 E	-30.7	20 E	20 E
-77.5	40 E	40 E	-63	40 E	40 E	-46.8	40 E	40 E
-78.7	60 E	60 E	-67	60 E	60 E	-54.6	60 E	60 E
-78.5	80 E	80 E	-67.9	80 E	80 E	-57.6	80 E	80 E
-76.7	100 E	100 E	-66.3	100 E	100 E	-57.3	100 E	100 E
-71.8	120 E	120 E	-61.1	120 E	120 E	-53.5	120 E	120 E
-55.9	140 E	140 E	-48.5	140 E	140 E	-44.5	140 E	140 E
-14.7	160 E	160 E	-17.3	160 E	160 E	-26.4	160 E	160 E
-63.1	180 E	180 E	28.5	180 E	180 E	3	180 E	180 E
73.8	160 W	160 W	53.1	160 W	160 W	30.7	160 W	160 W
77.5	140 W	140 W	63	140 W	140 W	46.8	140 W	140 W
78.7	120 W	120 W	67	120 W	120 W	54.6	120 W	120 W
78.5	100 W	100 W	67.9	100 W	100 W	57.6	100 W	100 W
76.7	80 W	80 W	66.3	80 W	80 W	57.3	80 W	80 W
71.8	60 W	60 W	61.1	60 W	60 W	53.5	60 W	60 W
55.9	40 W	40 W	48.5	40 W	40 W	44.5	40 W	40 W
-14.7	20 W	20 W	17.3	20 W	20 W	26.4	20 W	20 W
-63.1	Ø	W	-28.5	Ø	W	-3	Ø	W

Bearing 60 degrees			Bearing 75 degrees			Bearing 90 degrees		
Lat.	Long.		Lat.	Long.		Lat.	Long.	
11.3	Ø	E	20.7	Ø	E	36.4	Ø	E
-11.6	20 E	20 E	3.4	20 E	20 E	27.8	20 E	20 E
-30.3	40 E	40 E	-15	40 E	40 E	14.4	40 E	40 E
-41.8	60 E	60 E	-29.4	60 E	60 E	-2.6	60 E	60 E
-47.6	80 E	80 E	-38.3	80 E	80 E	-18.9	80 E	80 E
-49.4	100 E	100 E	-42.6	100 E	100 E	-30.9	100 E	100 E
-47.6	120 E	120 E	-43.3	120 E	120 E	-38	120 E	120 E
-41.7	140 E	140 E	-40.3	140 E	140 E	-41	140 E	140 E
-30.2	160 E	160 E	-33.1	160 E	160 E	-40.5	160 E	160 E
-11.3	180 E	180 E	-20.7	180 E	180 E	-36.4	180 E	180 E
11.6	160 W	160 W	-3.4	160 W	160 W	-27.8	160 W	160 W
30.3	140 W	140 W	15	140 W	140 W	-14.4	140 W	140 W
41.8	120 W	120 W	29.4	120 W	120 W	2.6	120 W	120 W
47.6	100 W	100 W	38.3	100 W	100 W	18.9	100 W	100 W
49.4	80 W	80 W	42.6	80 W	80 W	30.9	80 W	80 W
47.6	60 W	60 W	43.3	60 W	60 W	38	60 W	60 W
41.7	40 W	40 W	40.3	40 W	40 W	41	40 W	40 W
30.2	20 W	20 W	33.1	20 W	20 W	40.5	20 W	20 W
11.3	Ø	W	20.7	Ø	W	36.4	Ø	W

Bearing 105 degrees			Bearing 120 degrees			Bearing 135 degrees		
Lat.	Long.		Lat.	Long.		Lat.	Long.	
43.4	Ø	E	48.5	Ø	E	55.1	Ø	E
41.8	20 E	20 E	49.2	20 E	20 E	57.8	20 E	20 E
36.2	40 E	40 E	46.4	40 E	40 E	57.1	40 E	40 E
25.7	60 E	60 E	39.1	60 E	60 E	52.9	60 E	60 E
9.9	80 E	80 E	25.6	80 E	80 E	43.1	80 E	80 E
-8.8	100 E	100 E	4.9	100 E	100 E	23.7	100 E	100 E
-24.9	120 E	120 E	-17.6	120 E	120 E	-6.3	120 E	120 E
-35.7	140 E	140 E	-34.3	140 E	140 E	-32.9	140 E	140 E
-41.6	160 E	160 E	-43.9	160 E	160 E	-47.9	160 E	160 E
-43.4	180 E	180 E	-48.5	180 E	180 E	-55.1	180 E	180 E
-41.8	160 W	160 W	-49.2	160 W	160 W	-57.8	160 W	160 W
-36.2	140 W	140 W	-46.4	140 W	140 W	-57.1	140 W	140 W
-25.9	120 W	120 W	-39.1	120 W	120 W	-52.9	120 W	120 W
-9.9	100 W	100 W	-25.6	100 W	100 W	-43.1	100 W	100 W
8.8	80 W	80 W	-4.9	80 W	80 W	-23.7	80 W	80 W
24.9	60 W	60 W	17.6	60 W	60 W	6.3	60 W	60 W
35.7	40 W	40 W	34.3	40 W	40 W	32.9	40 W	40 W
41.6	20 W	20 W	43.9	20 W	20 W	47.9	20 W	20 W
43.4	Ø	W	48.5	Ø	W	55.1	Ø	W

Bearing 150 degrees			Bearing 165 degrees		
Lat.	Long.		Lat.	Long.	
63.1	Ø	E	-48.1	80 W	71.8
67	20 E	20 E	-16.4	60 W	56
67.9	40 E	40 E	29.3	40 W	-14.2
66.2	60 E	60 E	53.5	20 W	-63
60.9	80 E	80 E	63.1	Ø	-73.8
48.1	100 E	100 E	Bearing 165 degrees		
16.4	120 E	120 E	Lat.	Long.	
-29.3	140 E	140 E	73.8	Ø	71.8
-53.4	160 E	160 E	77.4	20 E	56
-63.1	180 E	180 E	78.7	40 E	-14.2
-67	160 W	160 W	78.5	60 E	63
-66.2	120 W	120 W	76.7	80 E	73.8
-60.9	100 W	100 W			



The 1987 Expedition of the "Dick Smith Explorer"
from Sydney to Port Davey and return. (Continued)

Of keen interest to Don (VK2BXM) was an attempt to make contact with Hobart from Port Davey on 2 metres SSB. The first attempt was on Friday evening, 13th. Don was using a brand new Kenwood TS751, a 175 watt Mirage linear and a 7-element yagi. Liaison was on 80m, but, remembering it was the 13th., there was no luck, of course!

A sked was set up for Sunday morning, but unfortunately, due to a call for a rescue mission for one of their dinghies, Don was unable to keep the sked. Early on Monday morning, Don was able to hear the early birds on Repeater 2, and managed to get a scratchy signal into the repeater, but the boys at this end were not able to discern his callsign or location. It did give some incentive to have another try however, and later in the day another attempt was made on SSB. This time, several words were copied by Doug VK7AZ, but that was all and no two-way contact was made.

The work load prevented any further experiments, and the "D.S.E." sailed for Hobart in the early hours of Wednesday, 18th., arriving in Hobart around 04.00 on Thursday.

Departing the following day, the "D.S.E." began a rather long and frustrating trip back to Sydney, where she arrived on Saturday, 28th. After a good run up the east coast of Tassie, they ran into very heavy weather in Bass Strait and had to heave-to for some hours. A highlight of this hold-up, however, was a spectacular electrical storm, with lightning strikes into the sea all round them.

The eve of the 25th saw the ship just east of Gabo Island, with a beautiful sunset and some forty or fifty porpoises frolicking round, three or four at a time leaping from the sea. On Friday 27th off Point Perpendicular, at the entrance to Jervis Bay, a 30 pound Blue Fin Tuna was landed! By this time the wind was back on the nose and Don and the crew were motor-sailing against that and a southerly setting current.

And so ends another "learning by adventure". Plenty for the log of the "Dick Smith Explorer", and for mine.

de VK7FB.

GOULBURN VALLEY NOTES.

3DW.

3CN getting back into his old stride, and has almost completed MOPA with 47-CO, and pair 46's in parallel, for PA. Would like VK7's to look out for him on 3625 and 7250 kc's. Snowy recently had the misfortune to pull down portion of the boardinghouse chimney during the erection of his antenna, and not being satisfied with that, followed the damaged portion off the roof himself. No injuries, and both doing well. HI!

3CN—Snowy Harrison—listens to the pennies dropping, and counts 'em one by one, at the Bank of Australasia.

3CN Ex 7CH—46 is TNT with both grids tied together, used on 7mc to-date, and used with 7mc Half wave Zepp gets out nicely.

Rx is "Wide World" two AC using 58 and 56.

Power supply from 280 common to Xmtr and Rx.

Right! Guess which year! Answer next month.