THE

PROPAGATOR

No. 7/76

JULY 1976

No. 7/76

THE MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO SOCIETY

Published by the Illawarra Amateur Radio Society P.O. Box 1838 WOLLONGONG. 2500

PRESIDENT & EDITOR.
Ian Bowmaker. VK2ZJA.
PO Box 1433,
Wollongong. 2500.

Phone: 29 2158.

SECRETARY.
Keith Curle. VK2ZYI.
24 Beach Drive,
Woonona. 2517.

Phone: 84 2469.

NOTICE OF MONTHLY GENERAL MEETING. JULY 1976.

Members are advised that the Monthly Meeting of the Illawarra Amateur Radio Society will be held at the Wollongong Town Hall Meeting Room on Monday, 12th July 1976, at 7.30 p.m..

AGENDA.

- 1. Apologies and welcome to visitors.
- 2. Minutes of previous General Meeting.
- 3. Correspondence.
- 4. Financial Report.
- 5. General Business.
- 6. Film. "Graphic Applications Demonstration".
- 7. Raffle and Sale of Components.

FILM. From the IBM library, this film demonstrates the use of a computer graphic display unit in the fields of Printed Circuit design and 3-dimensional designing, and should certainly be of interest.

CHANGE OF . ADDRESS.

Please take note that the postal address for all mail is now -

P.O. BOX 1838, WOLLONGONG. 2500.

FOR SALE.

SSB Transceiver - FT200 with Home Brew Power Supply.

Also SWR meter.

Ray, VK2AUP, Phone 96 5080.
21 Oldfield St., Warilla. 2528.

JULY MEETING.

Components for sale are ex Kevin, VK2AFF.

A box full of odds and ends, valves etc., will be for sale at the meeting. Some goodies including coaxial connectors.

The raffle prize is to be a SWR/Power meter, yet another worthwhile piece of gear for the shack.

Let's hope for another good roll-up for this meeting. As a matter of interest, the attendance at the June meeting was a record - 57 - no doubt all there to see the array of gear on display.

Congratulations.

Congratulations to Brian Bosley, as we understand he has passed his theory exam. Brian and his dog are busily building a Two Metre Rig and should be ready to get on the air as soon as his call comes through.

SHACK OR *

The life of a bachelor may have it's advantages...

Greame VK2AGV returned to a CQ from Ian VK2ZJA on 30/6/76 ".. I brought the rig to bed with me .."

Unusual QSO ?

Heard on Channel 6 Repeater on 4/7/76. QSO between " mobile North Head " and " maritime mobile ". Both stations made very favourable comments about the repeater. Can't give much more detail as an AM receiver is not all that good for sorting out the FM :

AUGUST MEETING. 9th August.

"Emergency Communications" night.

Jim, VK2BBG, has arrangements in hand for the showing of a film on earthquakes and an invitation has been extended to representatives of the State Emergency Service to attend the meating and talk on the subject of communications in emergency situations.

This should be a fitting follow up to the WICEN exercise of 25/7/76.

At future meetings we are under way to have a talk on the OSCAR projests, and also a talk on the current state of Marine Communications. Any member who has any ideas for meeting nights, preferably a suitable speaker or film, should contact any of the Committee members.

IARS STORE.

The usual items are in stock - see elsewhere for list and prices. We are awaiting the supply of an order for electrolytic capacitors and also a quantity of plugs, sockets, dials, and similar components - yet another good reason to come along to the monthly meetings. A new supply of resisters has arrived, and these will be on sale as before.

Thanks to Peter Schulz.

At the last meeting we had a record attendance of members and visitors. Those present were treated to a very well presented display of Amateur Equipment, ranging from All Band HF SSB Transceivers through to items of test equipment and components.

The display was presented by Peter Schulz, of Sideband Electronic Sales. See elsewhere in this issue for details of some of the gear that Peter has available.

The Raffle prize at the last meeting was a double meter type SWR and Power meter, which was donated by Peter. He has also donated another SWR meter and a Balun, both to be prizes for future raffles on meeting nights.

Our most sincere thanks to Peter for putting on the display and also for his generous donations.

MOBILE W.I.C.E.N. Exercise. Sunday, 25th July 1976.

Arrangements are well in hand to hold a mobile exercise on Sunday 25th July.

The Illawarra Vintage Car Club have agreed with our request to participate with them on an outing to Nowra. The exercise will take the form of Convoy Escort and will depart from the Figtree Hotel car park at 9.00 am on 25/7/76. A barbecue lunch will be taken at an interesting establishment to the south of Nowra - bring your own food and liquids. The return trip is timed to leave Nowra at about 3.00 pm.

Members can be assured of an interesting and enjoyable family outing. Those wishing to participate will require to have mobile gear on 146 MHz, and should contact Jim Potts, VK2BBG, home phone 84-4639, QTH 14 John St., Woonona.

W.I.A. NOTES - COMPILED BY GEOFF CUTHBERT VK2ZHU

As this has been a short month for the PROPOGATOR there is not much news from the W.I.A.

We did receive from the VK2 Divisional Council an 8 page "Repeater Operators Bulletin" giving an outline of 2 metre and 70 cm band usage and repeater channels etc. This Bulletin raises certain questions which Graham 2ALV and the TRAS Committee are looking into and will reply to our Divisional Council.

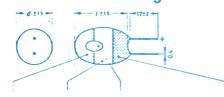
With regards to the QSL's the lorms are starting to come in now and the first issue of cards is inject. Those who have not sent in the form yet if you give them to me at the next meeting I will send them off for you.

There is no news this month on the preparation for WARC79 from the Federal Office but it is evident that more and more people are becoming aware of its existence and its importance to us all. To those amateurs (and those who hope to soon become an amateur) who are not members of the WIA but would like to join - what about taking \$20 from your Tax Refund cheque you are about to receive and send it off to support the organisation that is working for the benefit of ALL amateurs. By joining now your next years fees will only be about \$10. See me at the next meeting for membership forms.

Membership of a local club such as the IRAS is most desirable and will give you real tangeable value for youe money but it is the WIA which is responsible for making it all possible in the first place and is doing all the fighting to keep our hobby what it is. It may be difficult to see the benefits but if the WIA was not there you would very quickly see the losses.

CAPACITOR MARKING CODES

Solid Tantalum colour coding



Capacity in	μF			Rated d. c	. voltage
Colour	Dome 1. digit	Ring 2 digit	Dot multiplier marking of polarity	Colour	Voltage
black	-	0	x 1	white	3 V
brown	1	1	x 10	yellow	6,3 V
red	2	2	x 100	black	10 V
orange	3	3	_	green	16 V
yellow	4	4	_	blue	20 V
green	5	5	_	grey	25 V
blue	6	6	_	pink	35 V
violet	7	7	_		
grey	8	8	x 0.01		
white	9	9	x 0,1		

Marking of capacity: colour dot indicates the polarity orientation according to drawing.

Reproduced from the ITT Components data sheet for "TAG" capacitors, courtesy Standard Telephones & Cables Ltd

IEC marking code

Miniature ceramic capacitors and small polvester film capacitors are often marked according to the IEC marking code, where space would not permit the value in pF and other data to be given in full. Briefly, the IEC code is as follows. The first and second digits are the first and

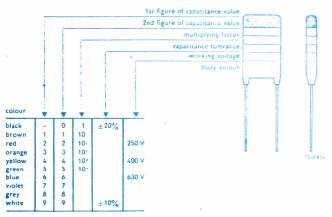


second significant figures of the value in pF, while the third digit is the multiplier in terms of powers of 10. Any alphabetic letters following indicate tolerance, i.e., M is 20%, K is 10%, J is 5%, C is ± 1000 Eurther figures indicate working voltage.

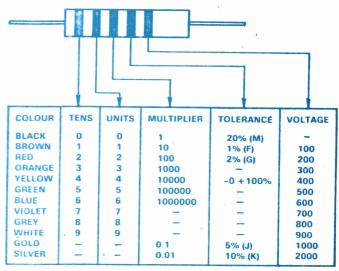
Temperature coefficient

Miniature ceramic capacitors are manufactured with various temperature coefficients of capacitance—i.e., they exhibit different degrees of capacitance change with temperature. Type N750 (violet colour code) has 750ppm°C negative coefficient; type NPO (black colour code) has less than 30ppm°C, either polarity. These are the two most common types.

Metallised Polycarbonate colour code



The drawings above and to the right are reproduced by courtesy of Elcoma. (Philips Industries Ltd.)



The international colour code is used to indicate the value and other characteristics of resistors, capacitors, and other components. Various arrangements, differing slightly from that shown, are used by individual manufacturers. (The letters in the tolerance column are sometimes used in place of colours.) Resistance values are in ohms and, unless otherwise specified, capacitor values in pF. As indicated in the ceramic code (below) the tolerance on capacitance values equal to or less than 10pF are often quoted in pF rather than percentage. Values greater than 10pF are quoted in percentage.

Ceramic colour code

	temperature coefficieni	first digit	second diqu	multiplier for the capacitance	toleranc capacita C ≤ 10 p (pF)	
red/violet	P100					
black	NPO		0	1		+ 20
brown	N033	1	1	10	± 0.1	.1
red	N075	2	2	102	≥ 0.25	+ 2
orange	N150	3	3	103		
yellow	N220	4	4	104		
green	N330 .	5	5		+0.5	2.5
blue	N470	6	6			
violet	N750	7	7			
grey white		8	8	10 -2		
orange/orange	N1500	9	9	10 1	± 1	+ 10
Figure code colour code for – temp. coefficient, see Table above	capacitance value in pF.		100 A	nee	yasa	10 of
	using K for			tol code	Te.	et code
	the thousands			(pF)		.1
				0.25 C 0.5 D 1 F	10 20	

ELECTRONICS Australia, May, 1976

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MR.J. MATNESICH VX2BNG 54 LAKE HEIGHTS ROAD LAKE HEIGHTS 2502 MR.H. MEAD VX2BJL PO BOX 85. RUUND CURNER 2158 MR.J. MILTON VX2AWN 11 BRANCH AVE FIGTREE 2500 MOURAB BIN & DIST. RADIO CLUB P.D. BCX 88 EAST BENTLEIGH 3165 MR.W. NEWPORT VX2YAV 19 LOCKOUT STREET. THIRROUL 2515 MR.G. NIEUWENHUIS.VX2YADD 34 BELLEVUE KD. FIGTREE 2500 MR.W. NORRIS PO BOX 1181 WCLLONGONG 2500 MR.W. NORRIS PO BOX 1181 WCLLONGONG 2500 MR.W. PATISON VX2ALU 98 HEASLIP STREET WOLLONGONG 2500 MR.W. PATISON VX2ALU 98 HEASLIP STREET WOLLONGONG 2500 MR.J. PARTISON VX2ALU 98 HEASLIP STREET WOLLONGONG 2500 MR.J. PORTIS VX2BG 14 JOHN ST. WOONONA 2530 MR.J. PRATLEY 187 PRINCES HWGY. DAPTO 2530 MR.J. PRATLEY 187 PRINCES HWGY. DAPTO 2530 MR.J. R. PRATLEY 187 PRINCES HWGY. DAPTO 2530 MR.D. REYNOLOS VX2ZEN 21 TOGRAK AVE WOLLONGONG 2500 MR.S. RIGNEY VX2BRZ 152 MC KAY ST. NOWAA 2540 MR.S. RIGNEY VX2BRZ 152 MC KAY ST. NOWAA 2540 MR.S. RIGNEY VX2BRZ 152 MC KAY ST. NOWAA 2540 MR.G. ROSAM VX2APG FL 2/38 HILLTOP AV MANGERTON 2500 MR.R.R. RYALL 6 GUNDARIN ST. WWOLLONGONG 2500 MR.R.R. SEPPALA VX2OR 80 BRIDGE AVENUE OAK FLATS 2527 MR.N. SHOWELL VX2ZSN 4 WILLIAM STREET KEIRAVILLE 2500 MR.R.R. SEPPALA VX2OR 80 BRIDGE AVENUE OAK FLATS 2527 MR.N. SHOWELL VX2ZSN 4 WILLIAM STREET KEIRAVILLE 2500 MR.R. SKULIMOWSKI 26 BURARI ST. WANDLUNGONG 2500 MR.P.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 34 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 35 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 35 GIRU GLD 4809 MR.P. SMITH VX4GS P.C. BOX 35 GIRU GLD ANDRA 2537 MR.L. STONE VX2LU CT 10 TRAFALGAR RD. TU	MR.K. MC INTOSH. 1 DEVON RD. DAPTO	2530
MR.J. MATTESICH VKZBNG 54 LAKE HEIGHTS ROAD LAKE HEIGHTS 2502 MR.H. MEAD VKZBJL. PO BOX 85. RUUND CURNER 2158 MR.H. MEAD VKZBJL. PO BOX 85. RUUND CURNER 2500 MOURAB BIN & DIST. RADID CLUB P.J. BOX 88 EAST BENTLEIGH 3165 MR.W. NEWPORT. VKZYAV 19 LOOKOUT STREET. THIRROUL 2515 MR.G. NIEUWENHOIS.VKZYBD 34 BELLEVUE RD. FIGTREE 2500 MR.W. NORRIS PO BOX 1181 WOLLONGONG 2500 MR.E. PALMER 35 CRAN-GRD LAKE. FIGTREE 2500 MR.L. PATISON VKZALU 98 HEASLIP STREET WOLLONGONG 2500 MR.J. POTTS VKZBBG 14 JOHN ST. WOONONA 2517 MR.J. POTTS VKZBBG 14 JOHN ST. WOONONA 2517 MR.J. PROCTOR VKZZEN 13 MORAN AVENUE DAPTO 2530 MK.D. REEC VKZJA 22 FUNDLE ST. ULLADULLA 2539 MR.D. REYNOLDS VKZZEK 13 MORAN AVENUE DAPTO 2530 MR.D. REYNOLDS VKZZEK 152 MC KAY ST. NONKA 2540 MR.G. ROSAM. VKZAPC FL Z/38 HILLTOP AV MANGERTON 2500 ST. GEORGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2500 ST. GEORGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2500 MR.R. SEPPALA VKZOS 80 BRIDGE AVENUE DAK FLATS 2527 MR.N. SHOKELL VKZZSN 4 WILLIAM STREET KEIRAVILLE 2500 MR.H. SMIT VKZBKS 9 MODRE CRES FAULCONBRIDGE NSW 2776 MR.G. SMITH VKAGS P.C.BOX 34 GIRU QLD 4809 MR.H. SMIT VKZBS 9 MODRE CRES FAULCONBRIDGE NSW 2776 MR.G. SMITH VKAGS P.C.BOX 34 GIRU QLD 4809 MR.H. SMIT VKZBSA 18 CROSTON RD. ENGADINE 2233 MR.L. STONE VKZLEN LCT 10 TRAFALGAR RD. TUROSS HEAD NSW 2537 MR.J. TELFER VKZYZO 169 MITCHELL PDE- MOLLYMOOK.N.S.W. 2539 THE DX -EDITOR D.GRANTLEY PO BOX 26 IMBIL QLD 4570 THE W. I.A. VKI DIVN. BOX 1173 CANBERRA CITY 2601 MR.B. TUCKER VKZZGR 80 MURRAY PARK ND FIGTRE HEIGHTS 2525 MR.G. VAUGHAN 53 SIGNES RD. MT.KEMBLA 2500 MR.B. TUCKER VKZZGR 80 MURRAY PARK ND FIGTRE HEIGHTS 2525 MR.G. VAUGHAN 53 SIGNES RD. MT.KEMBLA 2500 MR.B. TUCKER VKZZGR 80 MURRAY PARK ND FIGTRE HEIGHTS 2525 MR.G. VAUGHAN 53 SIGNES RD. MT.KEMBLA 2500 MR.B. TUCKER VKZZGR 80 MURRAY PARK ND FIGTRE HEIGHTS 2525 MR.G. VAUGHAN 53 SIGNES RD. MT.KEMBLA 2500 MR.B. TUCKER VKZZZR 93 ILLAROO RD. NORA MR.B. WALLER VKZZZR 93 ILLAROO RD. NORA MR.B. WALLER VKZZZR 93 ILLAROO RD. NORA MR.J. WALLER VKZZZR 93 I	MR.J. MC CURMACK 53 NORTHFIELDS AV. NTH WOLLONGONG	2500
MR.J. MATTESICH VK28NG 54 LAKE HEIGHTS ROAD LAKE HEIGHTS 2502 MR.H. MREAD VK23UL. PG BOX 85. RUDIND CURNER 2158 MR.J. MILTON VK2AWN 11 BRANCH AVE FIGTREE 2500 MOURAB BIN & DIST, RADID CULB P.J. BOX 88 EAST BENTLEIGH 3165 MR.W. NEWPORT VK2YAV.19 LOCKOUT STREET. THIRROUL 2515 MR.G. NIEUWENHUIS. VK2YBD 34 BELLEVUE KD. FIGTREE 2500 MR.W. NORRIS PD BOX 1181 WCLLONGONG 2500 MR.W. NORRIS PD BOX 1181 WCLLONGONG 2500 MR.E. PALMER 35 CRAN-GRD LANE. FIGTREE 2500 MR.L. PATISON VK2ALU 98 HEASLIP STREET WOLLONGONG 2500 MR.R. PERKUHN VKZZQV 7 EXMOUTH RUAD DAPTU 2530 MR.J. POTTS VK28BG 14 JOHN ST. WODNONA 2517 MR.J. POTTS VK28BG 14 JOHN ST. WODNONA 2517 MR.J. PRATLEY 187 PRINCES HWGY. DAPTO 2530 MR.C. PROCTOR VKZZEN 13 MORAN AVENUE DAPTO 2530 MR.D. REEC VK2JA 22 KUNDLE ST. ULLADULLA 2539 MR.D. REYNOLDS VK2ZER 13 TOGRAK AVE MOLLONGONG 2500 MR.S. RIGNEY VK2BZ 152 MC KAY ST. NOMKA 2540 MR.G. ROSAM "KX2APG FL 2738 HILLTOP AV MANGERTON 2500 MR.G. ROSAM "KX2APG FL 2738 HILLTOP AV MANGERTON 2500 MR.G. SKEER VK5MC HATHERLEIGH VIA MILLICENT 2500 MR.C. SKEER VK5MC HATHERLEIGH VIA MILLICENT 2500 MR.C. SKEER VK5MC HATHERLEIGH VIA MILLICENT 2500 MR.H. SEPPALA VK2OG 80 BRIDGE AVENUE DAK FLATS 2527 MR.N. SHOWLL WAZZEN 4 WILLIAM SKEET KETRAVILLE 2500 MR.H. STONE VK2ZEN 18 CROSTON RD. ENGADINE 2233 MR.J. TELFER VK2ZEN 18 CROSTON RD. ENGADINE 2233 MR.J. TELFER VK2ZEN 18 CROSTON RD. ENGADINE 2233 MR.J. TELFER VKZYDQ 169 MITCHELL PDE MOLLYMOGK.N.S.W. 2537 MR.J. TELFER VKZYDQ 169 MITCHELL PDE MOLLYMOGK.N.S.W. 2537 MR.J. TELFER VKZYDQ 169 MITCHELL PDE MOLLYMOGK.N.S.W. 2539 MHE DX "LOKEY VKZZER BS D WORRE CRES FAULCONBRIDGE NSW 2570 MR.B. TRUDGETT VKZYAX BOX 1173 CANBERRA CITY 2601 MR.B. TRUDGETT VKZYAX BOX 1173 CANBERRA CITY 2601 MR.B. TRUDGETT VKZYAX BOX 1173 CANBERRA CITY 2601 MR.B. WADE VKZYEG BSO MURRAY PARK ND FIGTRE HEIGHTS 2525 MR.C. VAUGHAN 53 STONES RD. MT.KEMBLA 2520 MR.B. WADE VKZYZG STONES RD. MT.KEMBLA 2520 MR.B. WADE VKZYZG STONES RD. MT.KEMBLA 2520 MR.B. WALLER VKZZZ STONES RD. MT.KEMBLA 2520 MR.B. WALLER VKZZZ STONES RD. MT.KEMBLA 2	MR.G. MANNS: 51 MARGARET ST. BALGOWNIE	2510
MR.H. MEAD VK28UL. PG BOX 85. RUUND CORNER _MR.J. MILTON VK2AGM II BRANCH AVE FIGTREE _2500 MOURAB BIN & DIST. RADIO CLUB P.O. BCX 88 EAST BENTLEIGH _MR.W. NEWPORT. VK2YAV 19 LOUKDUT STREET. THIRROUL. _MR.W. NEWPORT. VK2YAV 19 LOUKDUT STREET. THIRROUL. _MR.W. NEWPORT. VK2YAV 19 LOUKDUT STREET. THIRROUL. _2515 MR.W. NORRIS PO BOX 1181 WCLLONGONG _2500 MR.W. PALMER 39 CRANFORD LANE. FIGTREE _2500 MR.L. PAITSON VK2ALU 98 HEASLIP STREET WOLLONGONG _2500 MR.J. PAITSON VK2ALU 98 HEASLIP STREET WOLLONGONG _2500 MR.J. POTTS VK2BEG 14 JOHN ST. WOONDNA _2517 MR.J. POTTS VK2BEG 14 JOHN ST. WOONDNA _2517 MR.J. POTTS VK2EBG 14 JOHN ST. WOONDNA _2517 MR.J. PROCTIOR VK2ZEN 13 MORAN AVENUE _DAPTO _2530 MR.D. REEC VK2JA 22 FUNDLE ST. ULLADULLA _2539 MR.D. REEVNOLOS. VK2ZEK 21 TOGRAK AVE WOLLONGONG _2500 MR.S. RIGNEY VK2BKZ 152 MC KAY ST. NOWARA _2540 MR.G. ROSAM. VK2APG FL 2/38 HILLTOP AV MANGERTON _2500 ST. GEORGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. _2500 ST. GEORGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. _2500 MR.R.R. SEPPALA VK2CO 80 BKIDGE AVENUE _OAK FLATS _2527 MR.N. SHOWELL VK2ZSA 4 WILLIAM STREET KETRAVILLE _2500 MR.H. SMIT VK2BHS 9 MOGRE CRES FAULCGNERIOGE NSW _ARA. SEPPALA VK2CO 80 BKIDGE AVENUE _OAK FLATS _2527 MR.N. SHOWELL VKZZSA 18 CROSTON RO. ENGADINE _2539 MR.L. STONE VK2LW LOT 10 TRAFALGAR RD. TUROSS HEAD NSW _2537 MR.L. STONE VK2LW LOT 10 TRAFALGAR RD. TUROSS HEAD NSW _2537 MR.L. STONE VK2LW LOT 10 TRAFALGAR RD. TUROSS HEAD NSW _2537 MR.J. TELFER VK2YDC 169 MITCHELL PDE. MOLLYMOK.N.S.W. _2539 THE DX.—EOITOR D.GRANTLEY PO BOX 26 IMBIL QLD _4609 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG MR.B. TUCKER VK2ZGR 80 MURRAY PARK ND FIGTREE HEIGHTS _2525 MR.C. VAUCHAN 53 STONES RD. MT.KEMBLA MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG MR.B. TUCKER VK2ZGR 80 MURRAY PARK ND FIGTREE HEIGHTS _2526 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG MR.B. WALLER VK2ZGR 93 ILLAROO RD. NORRA _2540 MR.B. WALLER VK2ZGR 93 ILLAROO RD. NORRA _2540 MR.B. WILS	MR.J. MATTESICH VK28NG 54 LAKE HEIGHTS ROAD LAKE HEIGHTS	2502
MR.J. MILTON VKZAĞM 11 BRANCH AVE FIGTREE MOJRAB BIN & DIST. RADIO CLUB P.O. BCX 88 BAST BENTLEIGH MIST. MR.W. NEWPORT. VKZYAV. 19 LCOKOUT STREET. THIRROUL	MD H MEAD DEAD II OO DOY OF DOVED CODES	
MUJNAB BIN & DIST- RADIO CLUB P.D. BCX 88 EAST BENTLEIGH MR.MR.NEMPORT YRZYAV 19 LOGROUT STREET. THIRROUL 2515 MR.G. NIEUWENHUIS.VK2YBD 34 BELLEVUE RD. FIGTREE. 2500 MR.H. NORRIS PO BOX 1181 WOLLONGONG 2500 MR.L. PALTISON VKZALU 98 HEASLIP STREET WOLLONGONG 2500 MR.L. PATISON VKZALU 98 HEASLIP STREET WOLLONGONG MR.R. PERKUHN VKZZQV 7 EXMOUTH RODA DAPTO 2530 MR.J. POTTS VKZEBG 14 JOHN ST. WOONONA 2517 MR.J.R PRATLSY 187 PRINCES HWGY. BAPIO MR.C. PROCTOR VKZZEN 13 MORAN AVENUE DAPTO 2530 MR.D. REYNOLDS VKZZEN 13 MORAN AVENUE DAPTO 2530 MR.D. REYNOLDS VKZZEN 12 TOGRAK AVE WOLLONGONG 2500 MR.S. RIGNEY VKZBK 125 MC KAY ST. NOWNA 2540 MR.G. ROSAM.VKZAPG FL Z/38 HILLTOP AV MANGERTON 2500 MR.R.R RYALL 6 GUNDARIN ST. W. WOLLONGONG 2500 MR.R.R. SEPPALA VKZCO 60 BRIDGE AVENUE DAFLOR ST. GEORGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2216 MR.R. SEPPALA VKZCO 60 BRIDGE AVENUE DAK FLATS 2527 MR.N. SHOWELL VKZZSN 4 WILLIAM STREET KERRAVILLE 2500 MR.H. SMIT VKZBSS 9 MOGRE CRES FAULCONGONG 2500 MR.H. SMIT VKZBSS 9 POGRE CRES FAULCONGRIDGE NSW MR.H. SMIT VKZBSS 9 MOGRE CRES FAULCONGRIDGE NSW MR.H. SMIT VKZBS 9 POGRE CRES FAULCONGRIDGE NSW MR.J. TELFER VKZYDQ 169 MITCHELL PDE. MOLLYMOOK.N.S.W. 2537 MR.J. TELFER VKZYDQ 169 MITCHELL PDE. MOLLYMOOK.N.S.W. 2539 THE DAEDITOR D.GRANTLEY PO BDX 26 IMBIL QLD WILLA SCORE TO THE WAY DON'N TO AND THE MEDITARY SCOOL MR.K. TOEPFER 389 FIVE ISLANDS RD. UNANDERRA 2540 MR.B. TUCKER VKZCOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2525 MR.B. TUCKER VKZCOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2525 MR.B. TUCKER VKZCOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2525 MR.B. TUCKER VKZCOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2526 MR.B. TUCKER VKZCOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2525 MR.B. TUCKER VKZCOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2526 MR.B. WALLER VKZZOB 31 ILLAROOR RD. NOWRA 2540 MR.B. WALLER VKZZOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2526 MR.B. WALLER VKZZOB 71 TONNING ST. PICTON NSW 2571 MR.J. WALTBRIGHT VKZZH 30 THE EXPRESSWAY ALBION PAR	MR.J. MILTON VK2AQM 11 BRANCH AVE FIGTREE	2500
	MUURAB BIN & DIST. RADIO CLUB P.O. BCX 88 FAST BENTLEICH	2166
MR.W. NORRIS PO BOX 1181 WOLLDONGONG MR.B. PALMER 39 CRANFORD LANE. FIGTREE 2500 MR.B. PATISON VKZALU S6 HEASLIP STREET WOLLONGONG MR.R. PERKUHN VKZZQV 7 EXMOUTH RUAD DAPTO 2530 MK.R. PERKUHN VKZZQV 7 EXMOUTH RUAD DAPTO 2530 MK.J. POTTS VK28BG 14 JOHN ST. WOONDNA 2517 MR.J.R PRATLEY 187 PRINCES HWGY. DAPTO 2530 MK.C. PROCTOR VKZZEN 13 MORAN AVENUE DAPTO 2530 MK.D. REEC VKZJA 22 KUNDLE ST. ULLADULLA 2539 MR.D. REYNULDS VKZZRK 21 TOORAK AVE WOLLONGONG 2500 MR.S. RIGNEY VKZBRZ 152 MC KAY ST. NOWRA 2540 MR.G. ROSAM. VKZZRK 21 TOORAK AVE WOLLONGONG 2500 MR.S. RIGNEY VKZBRZ 152 MC KAY ST. NOWRA 2540 MR.G. ROSAM. VKZPG FL Z/38 HILLTOP AV MANGERTON 2500 ST. GEONGE AMATEUK RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2516 MR.R. SKYALL 6 GUNDAR IN ST. W. WOLLONGONG. 2516 MR.R. SEPPALA VKZOO 80 BRIDGE AVENUE DAK FLATS 2527 MR.N. SHOWELL VKZZSN 4 WILLIAM STREET KEIRAVILLE 2500 MR.R. SULINDWSKI 26 BUKARI ST. W. WOLLONGONG 2500 MR.H. SMIT VKZBS 9 MOORE CRES FAULCONREIDGE NSW 2776 MR.G. SMITH VK4GS P.G.BOX 34 GIRU QLD MR.R. SMITH VK2GS N. 18 CROSTON RD. ENGADINE 2537 MR.J. TELFER VKZYDQ 169 MITCHELL POE. MOLLYMOOK.N.S.W. 2539 THE DX —EDITOR D.GRANTLEY PO BOX 26 IMBIL QLD MR.L. STONE VKZLW LCT 1D TRAFALGAR RD. TURRSS HEAD NSW 2537 MR.J. TELFER VKZYDQ 169 MITCHELL POE. MOLLYMOOK.N.S.W. 2537 MR.B. TRUDGETT VKZYAX BOX 1028 WOLLONGONG NSW 2500 MR.B. TUCKER VKZZGB 80 MURRAY PARK KD FIGTREE HEIGHTS 2526 MR.B. TRUDGETT VKZYAX BOX 1028 WOLLONGONG NSW 2500 MR.B. TUCKER VKZZGB 80 MURRAY PARK KD FIGTREE HEIGHTS 2526 MR.J. WALKER VKZZIS 73 ILLAROO RD. NOWRA 2540 MR.J. WALFER FRIGHT VKZYN 1 DOWNING ST. PICTON NSW 2571 MWAYEL Y AMATEUR RACIO SOC. 21 WATSON ST. BÜNDI. 2527 MR.J. WALKER VKZZIS 73 ILLAROO RD. NOWRA 2540 MR.J. WALFER VKZZIS 73 ILLAROO RD. NOWRA 2540 MR.B. WILSON VKZZII 70 CHATHAM AV. NOWRA 2540 MR.B. WILSON VKZZII 70 CHATHAM AV. NOWRA 2540 MR.B. WILSON VKZZII ROD THE XPRESSWAY ALBIO	MR.N. NEWPORT VK2YAV 19 LOCKOUT STREET, THIRROW	2516
MR.L. PATISON VK2ALU 96 HEASLIP STREET WOLLONGONG MR.R. PERKUHN VK2ZQV 7 EXMGUTH ROAD DAPTO MR.J. POTTS VK2BBG 14 JOHN ST. WODNONA 2517 MR.J. PRATLEY 187 PRINCES H.WGY. DAPTO 2530 MK.C. PROCTOR VK2ZEN 13 MORAN AVENUE DAPTO 2530 MK.D. REEC VK2JA 22 FUNDLE ST. ULLADULLA 2539 MK.D. REEC VK2JA 22 FUNDLE ST. ULLADULLA 2539 MR.O. REYNDLOS VKZZEK 21 TOGRAK AVE WOLLONGONG 2500 MR.S. RIGNEY VK2BRZ 152 MC KAY ST. NOWRA 2540 MR.S. RIGNEY VK2BRZ 152 MC KAY ST. NOWRA 2540 MR.R. RYALL 6 GUNDARIN ST. W.WDLLONGONG 2500 ST. GEONGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2216 MR.C. SKEER VK5MC HATHERLEIGH VIA MILLICENT 5280 MR.N. SEPPALA VK2CO 80 BRIDGE AVENUE DAK FLATS 2527 MR.N. SHOWELL VK2ZSN 4 WILLIAM STREET KEIRAVILLE 2500 MR.H. SHUT VK2BHS 9 MOORE CRES FAULCONGONG 2500 MR.H. SMIT VK4GS P.C.BOX 34 GIRU QLD MR.P. SMITH VK4GS P.C.BOX 34 GIRU QLD MR.P. SMITH VK4ZSA 18 CROSTON RD. ENGADINE 2333 MR.L. STONE VK2LW LCT 10 TRAFALGAR RD. TUROSS HEAD NSW 2537 MR.J. TELFER VK2YDC 169 MITCHELL PDE. MOLLYMOK.N.S.W. 2539 THE DX. PEDITOR D.GRANTLEY PD BOX 26 IMBIL QLD 4570 THE W. I.A. VK1 DIVN. BOX 1173 CANBERRA CITY 2601 MR.A. SECRETARY 14 ATCHISON ST. CROWS NEST 2605 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2500 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2518 MR.J. HELFER VK2YDC 169 MITCHELL PDE. MOLLYMOK.N.S.W. 2539 THE DX. PEDITOR D.GRANTLEY PD BOX 26 IMBIL QLD 4570 THE W. I.A. VK1 DIVN. BOX 1173 CANBERRA CITY 2601 W.I.A SECRETARY 14 ATCHISON ST. CROWS NEST 2605 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2510 MR.B. HULDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2526 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2511 WAVERL Y AMATEUR RADIO SOC. 21 WANDERRA 2526 MR.B. WADE VK2YAW 72 MURRAY RD. CORRIMAL MR.J. WALLER VK2ZZR 33 ILLARON RD. NORRA MR.J. WALLER VK2ZZR 33 ILLARON RD. NORRA MR.J. WALLER VK2ZZR 34 ILLARON RD. NORRA MR.J. WALLER VK2ZZR 35 ILLARON RD. NORRA MR.J. WATI-BRIGHT VK2ZYN 1 DOWNING ST. PICTON NSW 2571 WAVERL Y AMATEUR RADIO SOC. 21 WATSON	. MR.G. NIEUWENHUIS.VK2YBD 34 BELLEVUE RD. FIGTREE.	2500
MR.L. PATISON VK2ALU 96 HEASLIP STREET WOLLONGONG MR.R. PERKUHN VK2ZQV 7 EXMGUTH ROAD DAPTO MR.J. POTTS VK2BBG 14 JOHN ST. WODNONA 2517 MR.J. PRATLEY 187 PRINCES H.WGY. DAPTO 2530 MK.C. PROCTOR VK2ZEN 13 MORAN AVENUE DAPTO 2530 MK.D. REEC VK2JA 22 FUNDLE ST. ULLADULLA 2539 MK.D. REEC VK2JA 22 FUNDLE ST. ULLADULLA 2539 MR.O. REYNDLOS VKZZEK 21 TOGRAK AVE WOLLONGONG 2500 MR.S. RIGNEY VK2BRZ 152 MC KAY ST. NOWRA 2540 MR.S. RIGNEY VK2BRZ 152 MC KAY ST. NOWRA 2540 MR.R. RYALL 6 GUNDARIN ST. W.WDLLONGONG 2500 ST. GEONGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2216 MR.C. SKEER VK5MC HATHERLEIGH VIA MILLICENT 5280 MR.N. SEPPALA VK2CO 80 BRIDGE AVENUE DAK FLATS 2527 MR.N. SHOWELL VK2ZSN 4 WILLIAM STREET KEIRAVILLE 2500 MR.H. SHUT VK2BHS 9 MOORE CRES FAULCONGONG 2500 MR.H. SMIT VK4GS P.C.BOX 34 GIRU QLD MR.P. SMITH VK4GS P.C.BOX 34 GIRU QLD MR.P. SMITH VK4ZSA 18 CROSTON RD. ENGADINE 2333 MR.L. STONE VK2LW LCT 10 TRAFALGAR RD. TUROSS HEAD NSW 2537 MR.J. TELFER VK2YDC 169 MITCHELL PDE. MOLLYMOK.N.S.W. 2539 THE DX. PEDITOR D.GRANTLEY PD BOX 26 IMBIL QLD 4570 THE W. I.A. VK1 DIVN. BOX 1173 CANBERRA CITY 2601 MR.A. SECRETARY 14 ATCHISON ST. CROWS NEST 2605 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2500 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2518 MR.J. HELFER VK2YDC 169 MITCHELL PDE. MOLLYMOK.N.S.W. 2539 THE DX. PEDITOR D.GRANTLEY PD BOX 26 IMBIL QLD 4570 THE W. I.A. VK1 DIVN. BOX 1173 CANBERRA CITY 2601 W.I.A SECRETARY 14 ATCHISON ST. CROWS NEST 2605 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2510 MR.B. HULDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2526 MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2511 WAVERL Y AMATEUR RADIO SOC. 21 WANDERRA 2526 MR.B. WADE VK2YAW 72 MURRAY RD. CORRIMAL MR.J. WALLER VK2ZZR 33 ILLARON RD. NORRA MR.J. WALLER VK2ZZR 33 ILLARON RD. NORRA MR.J. WALLER VK2ZZR 34 ILLARON RD. NORRA MR.J. WALLER VK2ZZR 35 ILLARON RD. NORRA MR.J. WATI-BRIGHT VK2ZYN 1 DOWNING ST. PICTON NSW 2571 WAVERL Y AMATEUR RADIO SOC. 21 WATSON	MR.W. NORRIS PO BOX 1181 WGLLONGONG	2500
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MR. P. PERRUHN VRZZQV / EXPOUTH ROAD DAPTO MR. J. POTTS VKZEBG 14 JOHN ST. WOONDONA 2517 MR. J. R. PRATLSY 187 PRINCES HWGY. DAPTO 2530 MK. C. PROCTOR VKZZEN 13 MORAN AVENUE DAPTO 2530 MK. D. REEC VKZJA 22 FUNDLE ST. ULLADULLA 2539 MR. D. REYNOLDS VKZZKK 21 TOORAK AVE WOLLONGONG 2500 MR. S. RIGNEY VKZBKZ 152 MC KAY ST. NOWRA 2540 MR. G. ROSAM VKZAPG FL 2/38 HILLTOP AV MANGERTON 2500 ST. GEOKGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2510 ST. GEOKGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2521 MR. C. SKEER VKSMC HATHERLEIGH VIA MILLICENT 5280 MR. S. SEPPALA VKZOO 80 BRIDGE AVENUE DAK FLATS 2527 MR. N. SHOWELL VKZZSN 4 WILLIAM SIREET KEIRAVILLE 2500 MR. K. SKULIMOWSKI 26 BUKARI ST. W. WOLLONGONG 2500 MR. H. SMIT VKZGSA 18 CROSTON RD. ENGADINE MR. G. SMITH VK4GS P. C. BOX 34 GIRU QLD MR. P. SMITH VKZZSA 18 CROSTON RD. ENGADINE MR. L. STONE VKZLW LCT 10 TRAFALGAR RD. TURUSS HEAD NSW 2537 MR. J. TELFER VKZYDC 169 MITCHELL PDE. MOLLYMOOK.N. S. N. 2539 THE DX —EDITOR D. GRANTLEY PO BOX 26 IMBIL QLD 4570 THE W. I. A. VKI DIVN. BOX 1173 CANBERRA CITY W. I. A. SECRETARY 14 ATCHISON ST. CROWS NEST 2065 MR. K. TOEPFER 389 FIVE ISLANDS RD. UNANDERRA 2526 MR. B. TRUDGETT VKZYAX BOX 1028 WOLLONGONG NSW 2500 MR. B. TRUDGETT VKZYAX BOX 1028 WOLLONGONG NSW 2500 MR. B. TUCKER VKZZOB 80 MURRAY PARK ND FIGTREE HEIGHTS 2525 MR. C. VAUGHAN 53 STONES RD. MT. KEMBLA MR. B. WALLER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALKER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALKER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALKER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALLER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALLER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALLER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALLER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALLER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALLER VKZZIR 93 ILLAROO RD. NOWRA 2540 MR. J. WALLER VKZZIR 94 ILLAROO RD. NOWRA 2540 MR. J. WEBB 36 HIGHWAY AV. WEST WOLLONGONG 2500 MR. B. WILSON VKZZOT RMB 175	MR.L. PATISON VK2ALU 98 HEASLIP STREET WOLLONGONG	2500
MR.J.R POTTS VK28BG 14 JOHN ST. WOONDNA MR.J.R PRATLEY 187 PRINCES HWGY. DAPTO 2530 MR.C. PROCTOR VKZZEN 13 MORAN AVENUE DAPTO 2530 MR.D. REEC VK2JA 22 RUNDLE ST. ULLADULLA 2539 MR.D. REYNOLDS VKZZRK 21 TOORAK AVE WOLLONGONG 2500 MR.S. RIGNEY VK2BK 152 MC KAY ST. NDWKA 2540 MR.G. ROSAM VK2APG FL 2/38 HILLTOP AV MANGERTON 2500 MR.R.R. RYALL 6 GUNDARIN ST. W. WOLLONGONG ST. GEONGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2510 ST. GEORGE AMATEUR RADIO SOCIETY 17 MC INTYRE AV BRIGHTON. 2510 MR.R. SEPPALA VK2CO 80 BRIDGE AVENUE DAK FLATS 2527 MR.N. SEPPALA VK2CO 80 BRIDGE AVENUE DAK FLATS 2520 MR.K. SKULIMOWSKI 26 BUKARI ST. W. W.CLLONGONG MR.K. SKULIMOWSKI 26 BUKARI ST. W. W.CLLONGONG MR.G. SMITH VK4GS P.G.BOX 34 GIRU QLD MR.P. SMITH VK4GS P.G.BOX 34 GIRU QLD MR.P. SMITH VK2ZSA. 18 CROSTON RD. ENGADINE MR.P. SMITH VK2ZSA. 18 CROSTON RD. ENGADINE MR.J. TELFER VK2YDC 169 MITCHELL PDE. MOLLYMOOK.N.S.W. 2539 THE DX —EDITOR D.GRANTLEY PO BOX 26 IMBIL QLD 4570 THE W. I.A. VK1 DIVN. BOX 1173 CANBERRA CITY W. I.A SECRETARY 14 ATCHISON ST. CROWN REST W. I.A SECRETARY 14 ATCHISON ST. CROWN REST W. I.A SECRETARY 14 ATCHISON ST. CROWN REST MR.B. TRUDGETT VK2YAX BOX 1028 WOLLONGONG NSW 2500 MR.B. WADE VX2YAW 72 MURRAY PARK ND FIGTREE HEIGHIS 2525 MR.C. VAUGHAN 53 STONES RD. MT.KEMBLA 2500 MR.B. WADE VX2YAW 72 MURRAY PARK ND FIGTREE HEIGHIS 2526 MR.B. WADE VX2YAW 72 MURRAY PRO. CORRIMAL MR.J. WALKER VK2ZZF 33 ILLARDO RD. NOWRA 2540 MR.J. WEBB 36 HIGHWAY AV. WEST WOLLONGONG 2500 MR.B. WALKER VK2ZZF 33 ILLARDO RD. NOWRA 2540 MR.J. WEBB 36 HIGHWAY AV. WEST WOLLONGONG 2500 MR.B. WILSON VK2ZZH RMB 175 CAMBEWARRA 2577 MR.H. WILTSHIRE VKZZZH 30 THE EXPRESSWAY ALBION PARK. 2567	MK.R. PERKUHN VKZZQV / EXMGUTH ROAD DAPTO	2520
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Mr. R. Wilson, VK2ZVX, 1 Sheppard St., West Wollomgong. 2500.

Mr. L. Hoschke, 104 Prince Edward Ave., Culburra. 2540

Mr. R. Fox, 89 Wentworth St., Oak Flats. 2527.

Mr. H. Laauw, VK2BHL, 32 Wm Beach Rd., Dapto. 2530.

Moonbounce Report - July 1976.

A scheduled EME test was carried out on 5th June by Charlie VK2ZEN, with the assistance of Ian Proctor.

A one hour test was made with WIJAA, resulting in our first contact with him at his present QTH which is in Massachusetts. We had previously worked him under the callsign W6FZJ when he was located in California. His signals were running at 2 to 3dB over noise.

Chart recordings were made from the tape of EME signals received from WA6LET on 24th May, to obtain data on fading characteristics of the EME path. Indications of scintillation fading were present in addition to the very marked libration fading pattern.

As the signal was above noise level at all times, even at the deepest part of the fades, these chart records are the most useful information obtained to date for determining what type of emission and processing of received signals could be used to obtain the greatest advantage from the characteristics of the EME propagation path.

A copy of portion of the chart was sent to the Stanford Research Institute Group for their analysis.

Eric Jamieson VK5LP advises that he intends to visit Wollongong this month for inspection of the dish at Dapto and discussion of equipment as part of his planning for the construction of a 28ft. dia. dish and gear for EME experiments.

Now we have heard of everything department - W3CCX and crew plan to operate portable EME in Columbia, South America in July-August on 432mlz. Their antenna will be an array of 16 large Yagis, with a measured gain of 1dB more than of their 20ft. dia. dish. This DX pedition promises to be quite an operation! A schedule has been circulated for EME tests with various stations, including VK2AMW, over the period July 31st to August 2nd.

Lyle VK2ALU.



"They're recalling your outside antenna."

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YAESU-MUSEN model FT 101-E AC-DC transceivers 10 to 160 M w. speech processor \$650	AR-2X RINGO RANGER double % waves verticals \$35
TRIO-KENWOOD model QR-666 receiver 170 KHz to 30 MHz AC-DC Now \$250	ARX-2 extension for AR-2 A147-20T combination vertical-horizontal 2 M. Yagis, 10 elements each
BARLOW-WADLEY model XCR-30 MK II portable DC communications receiver Now \$180	Yagis, 10 elements each A147-11 11 elements 2 M. Yagi CRYSTAL FILTERS 9 MHz, similar to FT-200 ones, with carrier crystals
HY-GAIN ANTENNAS 14AVQ 10-40 M. verticals, 19' tall, no guys 18AVT-WB 10-80 M. verticals, 23' tall, no guys TH3JR 10-15-20 junior 3 el. Yagi 12' boom TH3MK3 10-15-20 senior 3 el. Yagi 14' boom TH6DXX 10-15-20 senior 6 el. Yagi 24' boom HY-QUAD 10-15-20 cubical quad Yagi 8' boom TIGER ARRAY 204BA 20 M 4 el. Yagi 26' boom \$190	KYOKUTO 2 Meter FM 15 Watt output transceivers with digital read-out and crystal synthesized PLL circuitry, now with 800 transmit and 1000 receive channels 5 KHz apart, covers all of 144 to 148 MHz, receive to 149 MHz, no more crystals to buy, includes simplex, repeater and anti-repeater operation. Still only \$300
BN-86 balun for beam purchasers only \$18	ICOM IC-2022 Meter SSB handy transceivers, 144.0 to 144.4 MHz. still only \$185
ANTENNA ROTATORS Model CDR AR-22 junior rotator for small and light beams \$55 Model CDR Ham-II for all hf beams except 40 M ones! \$165	TRIO-KENWOOD model TS-700A FM-AM-CW-SSB transceivers, full 144 to 148 MHz coverage, 10 Wattoutput VFO controlled, self contained AC-DC operation \$575
KEN model KR-400 for all medium size hf beams with internal disc brake \$100 KEN model KR-500 for vertical elevation control of	AUTOMATIC MORSE KEYERS EK-150 with built-in squeeze key paddle AC operated with monitor \$75 FERRITE CORE BALUNS cheaper Japanese product
satellite tracking \$100 All models rotators come complete with 230V AC indicator-control units. 4-conductor light cable for AR-22 20 cents per yard	for up to 500 W RF with coax conn. \$12 COAX CABLE CONNECTORS-SWITCHES Amphenol type male for RG8U and RG58U cable, two types, female chassis mount, double male, double
12-conductor light cable for Ham-II 30 cents per yard 8-conductor heavy cable for Ham-II 70 cents per yard 6-conductor heavy cable for KR-400-500 60 cents per yard	female, all types Amphenol angle and T-connectors 3 Position coax switches 100 cents each 150 cents each \$10
DRAKE W-4 SWR—WATT METER 0-200 and 0-2000 Watt scales \$60 DRAKE TV-1000 TVI Low pass Filter \$25	RG-8U coax cable %"diam. RG-58U coax cable 3-16"diam. Add \$1 cutting and handling cost for coax and rotator
SINGLE METER SWR METER \$15 TWIN METER SWR METER \$22	cable orders P.T.T. DYNAMIC MICROPHONES 50K or 600 ohms
MARK MOBILE ANTENNAS Helical 6' long HW-40 fpr 40 M \$18 High power KW-40 for 40 M. \$25 HW 20 for 20 M. \$16	with 4-pin Jap. plugs DUMMY LOADS, 50 ohms with Watt meters built-in 0-200 MHz, 0-6 — 0-30 — 0-150 Watt YP 150 \$80
HW-20 for 20 M. \$16 Swivel mobile mount and chrome plated spring for all \$12	TRIO-KENWOOD DIP METERS Model DM-800 0.7 to 250 MHz few only \$60
ASAHI MOBILE ANTENNAS AS-2-DW-E 1/4 wave 2 M. mobile whip \$8	27 MHz TRANSCEIVERS 5 Watt AM 6 channels with 27.880 MHz crystals \$75
AS-WW % wave 2 M. mobile whip \$18 AS-GM gutter clip mount with canle and con-	1 Watt hand-held 3 channels 27.240 crystals \$50 15 Watt PEP 23-channels AM-SSB model SE-501 \$175
nectors \$10 M-Ring body mount and cap for 1/4 M. whips \$5	CUSH CRAFT model CR-1 27-29 MHz Ringo % wave antennas \$35
All prices quoted are net SPRINGWOOD, N.S.W. on a	cash with order basis, sales tax included in all cases, but

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— PETER SCHULZ

SIDEBAND ELECTRONICS SALES

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Please note that the prices above differ from the advertisement we carried in the last issue.

You can be assured of service from Peter.

Be sure to mention you are a member of I.A.R.S.

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Cans - single 10c each

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107 4 3 7 57	
10K A and 15K A potentiometers	50c each
500K C switch potentiometers	60c each
.0068 mf feed through capacitors	10c each
Ceramic trimmer, mica insulation.	30c each
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Edge Connectors.	1.00 each
	1.00 each
Tag strips	10c each
Ceramic bolt-down trimmer.	10c each
Twin wire lead fitted with 2 1.5mm plugs.	50c each
Small solder type feed through capacitors.	
Wire wrap type trimmers.	5c each
" "zop ojpo orimmers.	10c each

GREENCAP CONDENSERS 100V

.0047, .01, .022 .047, .1

METERS

- 1. S Meter 400 uA movement, calibrated in S units
 1 to 9 and 10 to 40 over S9. Cutout size 18" x 5/8" \$2.50
- 2. Level Meter This is a dual movement meter indicating L and R level. Each side from -20 to +3. Each movement is 200 uA F.S.D. The dual scale is transluscent, for illumination from the back. Very pretty. Cutout size 1 7/8" x 1½". Probably the same as the meter used in an Electronics Australia mixer/preamplifier project a few months ago.

 \$3.00

3. 0 - 1mA Meter A standard 2" square meter. \$4.00

4. <u>0 - 1mA Meter</u> A standard 3" x 2" meter. \$5.00

5. <u>0 - 10A Meter</u> A standard 3" x 2" meter. \$5.00

RESISTORS

Bags of 130 ½W resistors plus 4 Greencaps.

10 each of 13 values: 22, 47, 82, 100, 470 ohm

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Greencaps 2 - .1, 2 - .0047, .01 or .022 to bring cost of resistors down to 2c each and still make a round \$3.

\$3.00 per bag



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